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## GENERAL TERMS AND CONDITIONS .....



## FAX ORDER

Company: \_\_\_\_\_

Contact person: \_\_\_\_\_

Street: \_\_\_\_\_

PLZ: \_\_\_\_\_ City: \_\_\_\_\_

Tel.: \_\_\_\_\_ Fax: \_\_\_\_\_

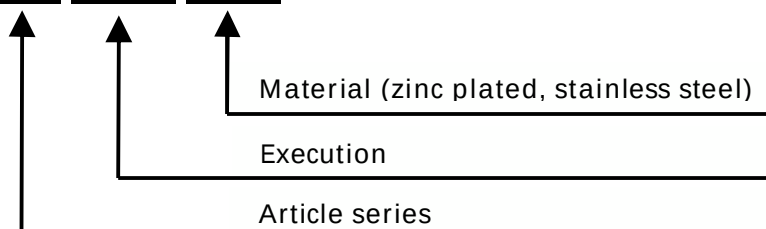
eMail: \_\_\_\_\_

Director: \_\_\_\_\_ Ust. - Id.No.: \_\_\_\_\_

| Art.-no. | Description | Quantity | Price |
|----------|-------------|----------|-------|
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |
|          |             |          |       |

Ordering example:

Art.no 6001. 01/02. 04/30



Ordering process:

Select the items you want from our catalogue, enter the article number in the left column and select the appropriate surface finishes; see example overhead.

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## FOLDER 1 LATCHES

### FOLDER 1 LATCHES

---

|                                          |      |
|------------------------------------------|------|
| LATCHES .....                            | A    |
| • LATCHES WITH WIRE BRACKET .....        | A-1  |
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### FOLDER 2 TENSION BANDS

---

### FOLDER 3 HANDLES

---

### FOLDER 4 HINGES

---

### FOLDER 5 LOCKING DEVICES

---

### FOLDER 6 THREADED INSERTS

---

### FOLDER 7 SUNDRIES

---

### GENERAL TERMS AND CONDITIONS .....



## Latches with wire bracket



Art.: 1001



Art.: 1002



Art.: 1003



Art.: 1008



Art.: 1009



Art.: 1010



Art.: 1012



Art.: 1013



Art.: 1014



Art.: 1017



Art.: 1018



Art.: 1019



Art.: 1021



Art.: 1022



Art.: 1023





## Latches with wire bracket



Art.: 1035



Art.: 1037



Art.: 1039



Art.: 1042



Art.: 3001



Art.: 3002



Art.: 3004



Art.: 3005



Art.: 3006



Art.: 3007



Art.: 3008



Art.: 3009



Art.: 3011



Art.: 3135



Art.: 6370



Art.: 1070



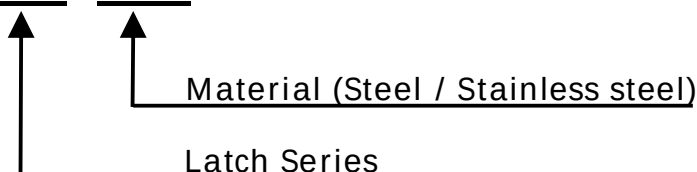
## Latches With wire bracket

### Materials and surface finishes:

|     |                                             |
|-----|---------------------------------------------|
| .00 | Raw steel                                   |
| .01 | Nickel-plated                               |
| .02 | Brassed                                     |
| .03 | Chromated                                   |
| .04 | Zinc plated steel                           |
| .05 | Bronzed                                     |
| .06 | Black galvanized                            |
| .07 | Blued                                       |
| .08 | Yellow chromated                            |
| .09 | EPD (Electrophoretic deposition)            |
| .10 | Anodized silver-coloured                    |
| .20 | Raw brass                                   |
| .22 | Polished brass                              |
| .23 | Chromated brass                             |
| .30 | Raw stainless steel (Stainless steel)       |
| .33 | Polished stainless steel                    |
| .35 | Raw stainless steel (1.4401)                |
| .50 | Raw Zamak (zinc aluminium magnesium copper) |
| .70 | Raw aluminium                               |
| .80 | Raw polyamide                               |

### Ordering example:

Art.No. 1001 . 00/30



## Latches with wire bracket

### Art. no.: 1001 (drilled)

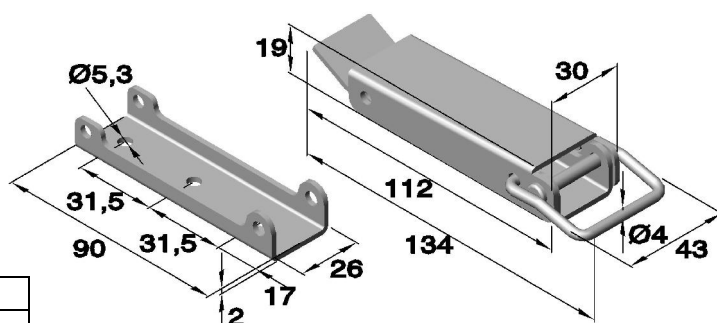
Permitted tractive force: 2000 N

Breaking strength: 4000 N

Suitable strikes: see chapter „B“

Art. no.: 1001.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1001        | .00/6    | .01/6         | .04/6       | .30/6           |



### Art. no.: 1002 (drilled, with secondary loop lock)

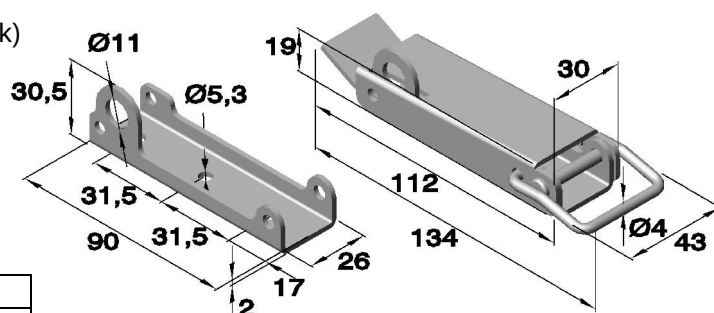
Permitted tractive force: 2000 N

Breaking strength: 4000 N

Suitable strikes: see chapter „B“

Art. no.: 1001.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1002        | .00/6    | .01/6         | .04/6       | .30/6           |



### Art. no.: 1003 (drilled, with safety interlock)

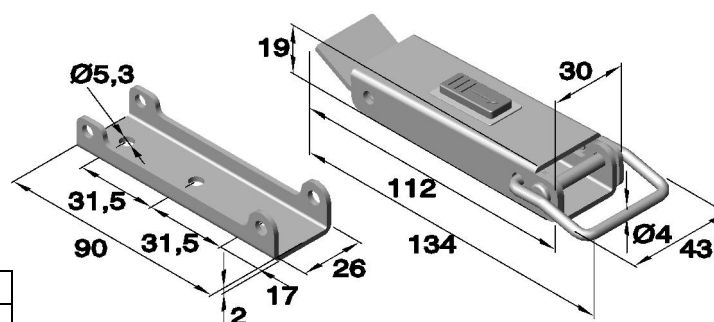
Permitted tractive force: 2000 N

Breaking strength: 4000 N

Suitable strikes: see chapter „B“

Art. no.: 1001.\_\_/5

| Article no. |               |                 |
|-------------|---------------|-----------------|
| Series      | Material      |                 |
|             | Nickel plated | Raw             |
|             | Steel         | Stainless steel |
| 1003        | .01/6         | .30/6           |



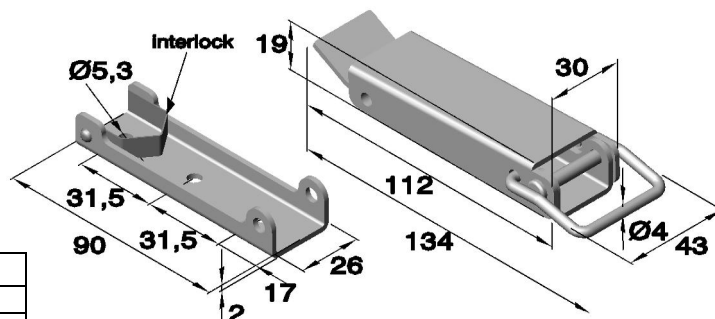


Art. no.: 1004 (drilled, with click-interlock)

Breaking strength: 4000 N

Art. no.: 1001. /5

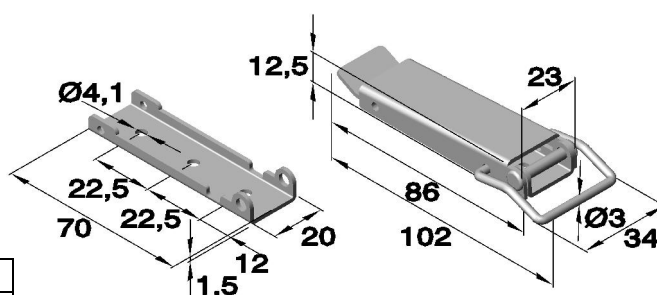
| Article no. |               |             |                 |
|-------------|---------------|-------------|-----------------|
| Series      | Material      |             |                 |
|             | Nickel plated | Zinc plated | Raw             |
|             | Steel         | Steel       | Stainless steel |
| 1004        | 01/6          | 04/6        | 30/6            |



Breaking strength: 3000 N

Art. no.: 1006. /5

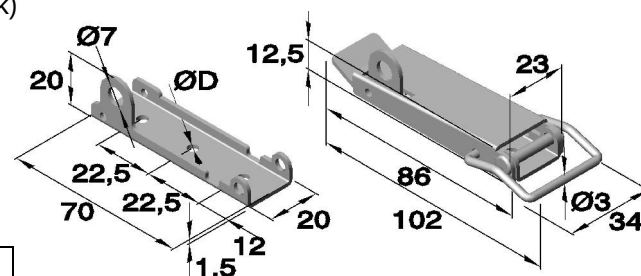
| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1006        | .00/6    | .01/6         | .04/6       | .30/6           |



Breaking strength: 3000 N

Art. no.: 1006. /5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1007        | 00/6     | 01/6          | 04/6        | 30/6            |



## Latches with wire bracket

### Art. no.: 1008 (drilled)

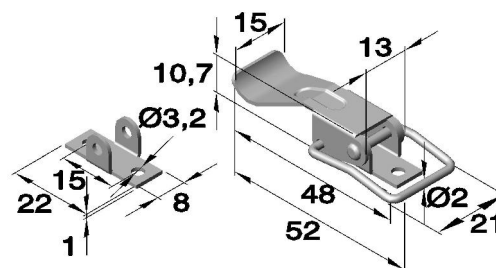
Permitted tractive force: 400 N

Breaking strength: 1000 N

Suitable strikes: see chapter „B“

Art. no.: 1008.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1008        | .00/6    | .01/6         | .04/6       | .30/6           |



### Art. no.: 1009 (drilled)

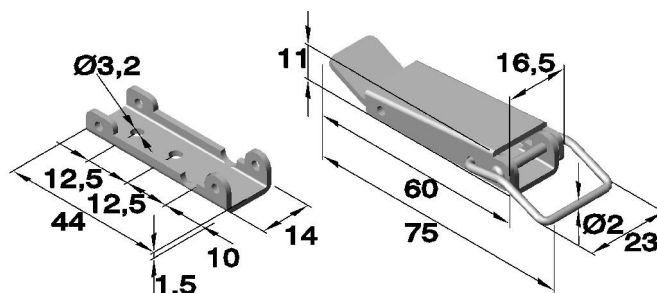
Permitted tractive force: 550 N

Breaking strength: 1500 N

Suitable strikes: see chapter „B“

Art. no.: 1009.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1009        | .00/6    | .01/6         | .04/6       | .30/6           |



### Art. no.: 1010 (drilled, with secondary loop lock)

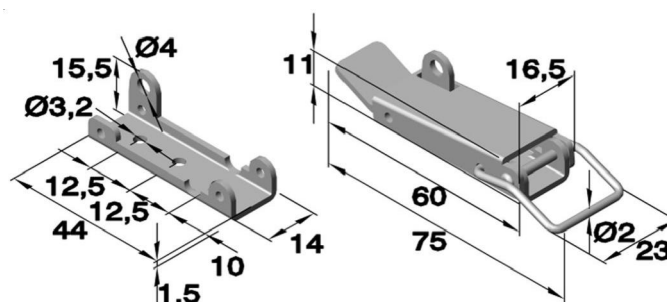
Permitted tractive force: 550 N

Breaking strength: 1500 N

Suitable strikes: see chapter „B“

Art. no.: 1009.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1010        | .00/6    | .01/6         | .04/6       | .30/6           |



## Latches with wire bracket

Art. no.: 1012 (drilled, with safety spring)

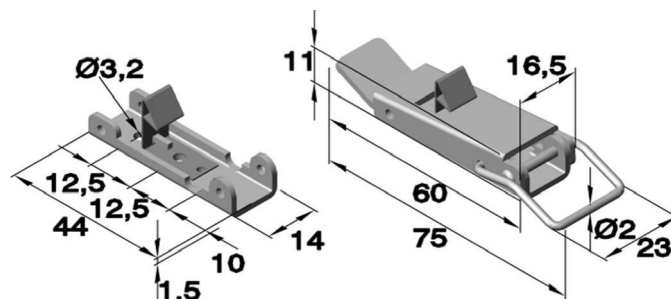
Permitted tractive force: 550 N

Breaking strength: 1500 N

Suitable strikes: see chapter „B“

Art. no.: 1009.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1012        | .04/6       | .30/6           |



Art. no.: 1013 (drilled)

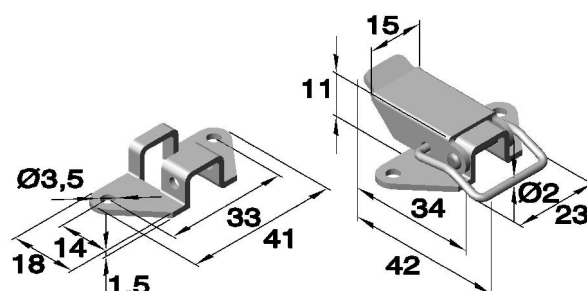
Permitted tractive force: 550 N

Breaking strength: 1500 N

Suitable strikes: see chapter „B“

Art. no.: 1013.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Steel    | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1013        | .00/6    | .01/6         | .04/6       | .30/6           |



Art. no.: 1014 (drilled, with secondary loop locks)

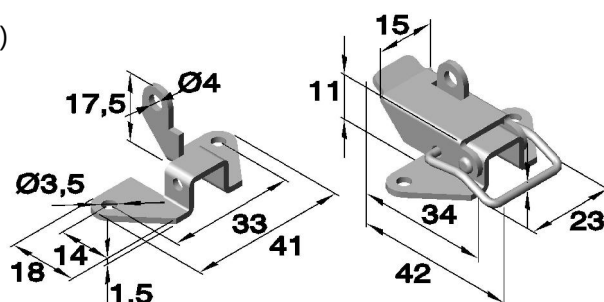
Permitted tractive force: 550 N

Breaking strength: 1500 N

Suitable strikes: see chapter „B“

Art. no.: 1013.\_\_/5

| Article no. |          |               |             |
|-------------|----------|---------------|-------------|
| Series      | Material |               |             |
|             | Steel    | Nickel plated | Zinc plated |
|             | Steel    | Steel         | Steel       |
| 1014        | .00/6    | .01/6         | .04/6       |



## Latches with wire bracket

### Art. no.: 1017 (drilled)

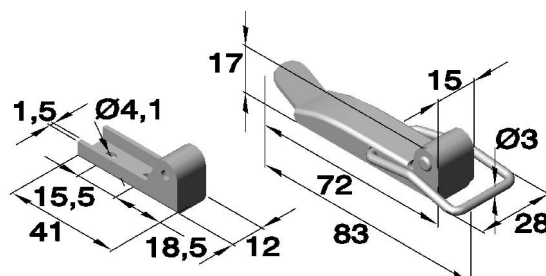
Permitted tractive force: 1000N

Breaking strength: 2500N

Suitable strikes: see chapter „B“

Art. no.: 1015.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Steel    | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1017        | .00/6    | .01/6         | .04/6       | .30/6           |



### Art. no.: 1018 (drilled, with secondary loop locks)

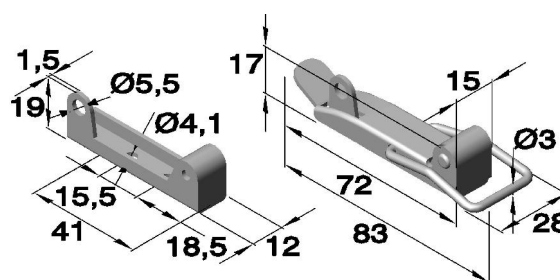
Permitted tractive force: 1000N

Breaking strength: 2500N

Suitable strikes: see chapter „B“

Art. no.: 1015.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Steel    | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1018        | .00/6    | .01/6         | .04/6       | .30/6           |



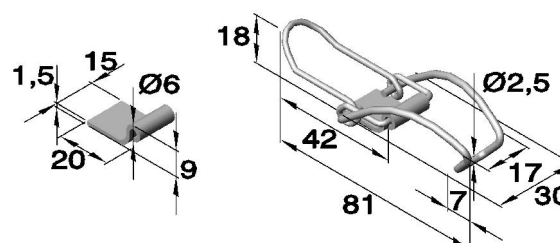
### Art. no.: 1019

Permitted tractive force: 300N

Breaking strength: 600N

Suitable strikes: see chapter „B“

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1019        | .04/6       |



## Latches with wire bracket

Art. no.: 1021 (drilled, with secondary loop locks)

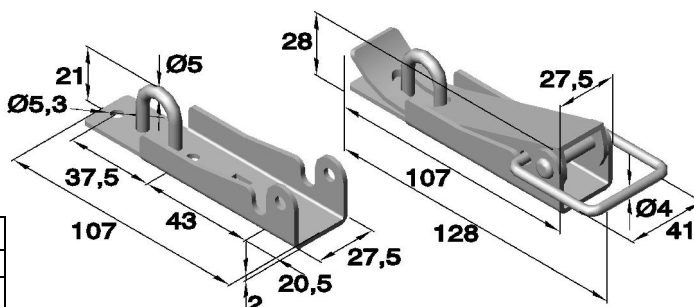
Permitted tractive force: 2000 N

Breaking strength: 3500 N

Suitable strikes: see chapter „B“

Art. no.: 1001.\_\_/5

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1021        | .04/6       |



Art. no.: 1022 (drilled)

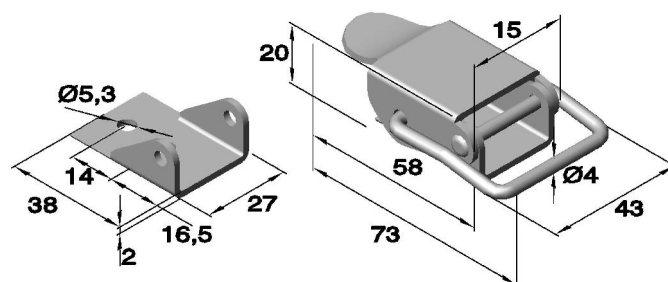
Permitted tractive force: 1500 N

Breaking strength: 3000 N

Suitable strikes: see chapter „B“

Art. no.: 1039.\_\_/5

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1022        | .04/6       |



Art. no.: 1023 (drilled)

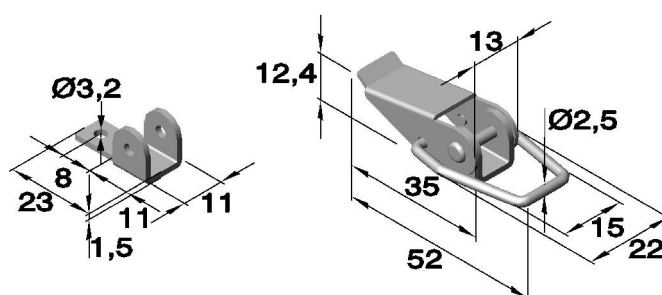
Permitted tractive force: 400 N

Breaking strength: 1000 N

Suitable strikes: see chapter „B“

Art. no.: 1023.\_\_/5

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1023        | .04/6       |



## Latches with wire bracket

### Art. no.: 1035 (drilled)

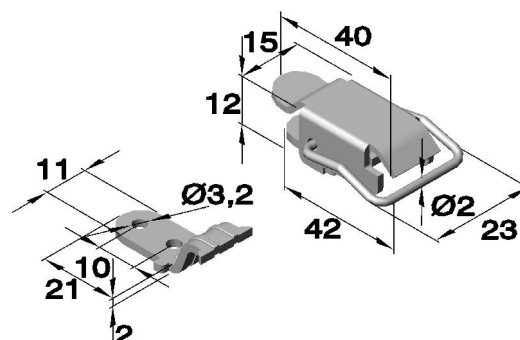
Permitted tractive force: 550 N

Breaking strength: 1000 N

Suitable strikes: see chapter „B“

Art. no.: 1034.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1035        | .04/6       | .30/6           |



### Art. no.: 1037 (drilled)

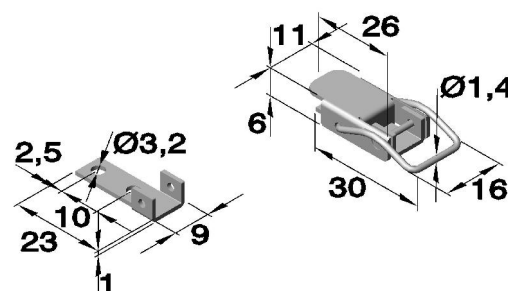
Permitted tractive force: 150 N

Breaking strength: 300 N

Suitable strikes: see chapter „B“

Art. no.: 1036.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1037        | .04/6       |                 |



### Art. no.: 1039 (drilled)

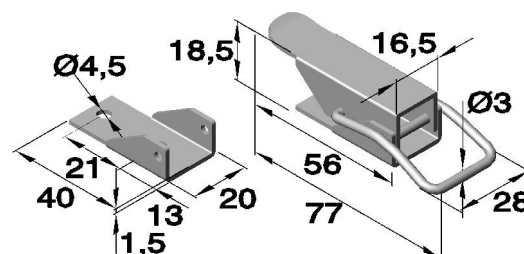
Permitted tractive force: 1000 N

Breaking strength: 2500 N

Suitable strikes: see chapter „B“

Art. no.: 1039.\_\_/5

| Article no. |             |         |
|-------------|-------------|---------|
| Series      | Material    |         |
|             | Zinc plated | Bronzed |
|             | Steel       | Steel   |
| 1039        | .04/6       | .05/6   |





## Latches with wire bracket

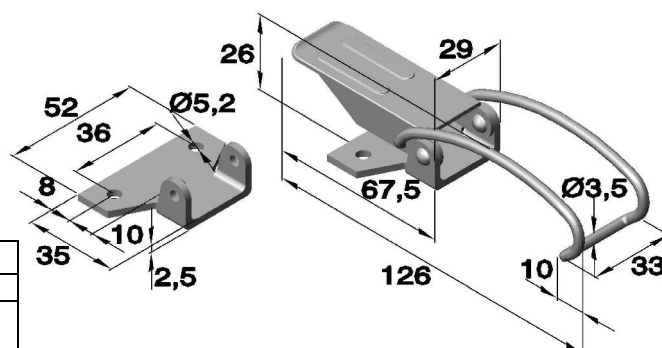
Art. no.: 1042 (drilled)

Permitted tractive force: 200 N

Breaking strength: 3500 N

Suitable strikes: see chapter „B“

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1042        | .04         |

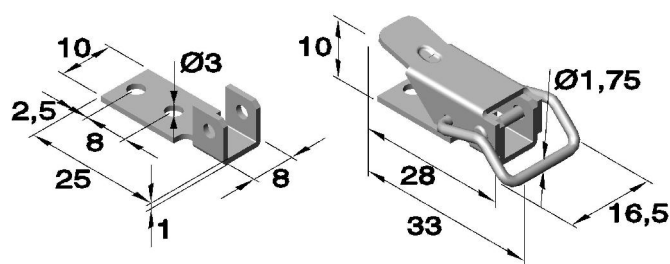


Art. no.: 3001 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3601. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3001        | .04         |

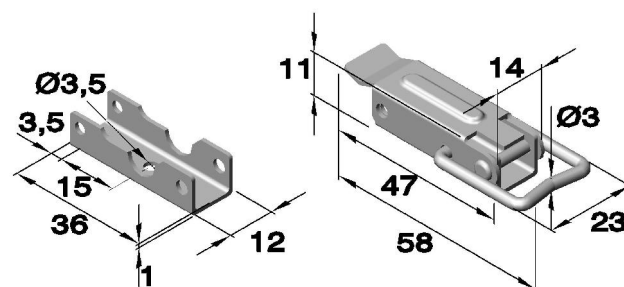


Art. no.: 3002 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3602. \_\_

| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | Stainless steel |
| 3002        | .04         | .30             | .33             |

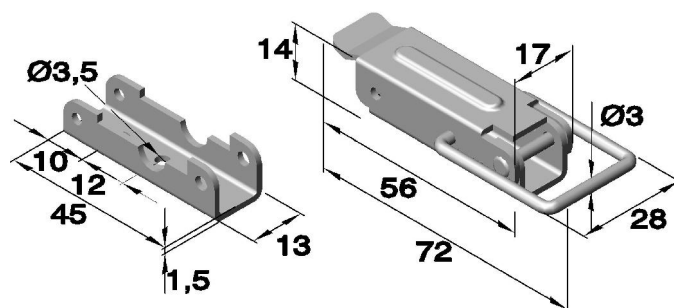


Art. no.: 3003 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3603. \_\_

| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | Stainless steel |
| 3003        | .04         | .30             | .33             |



## Latches with wire bracket

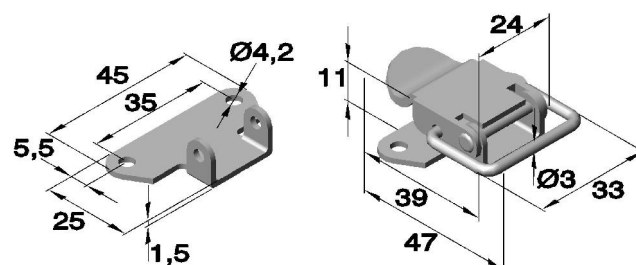
### Art. no.: 3004 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3604.\_ \_

Art. no.: 3619.\_ \_

| Article no. |             |                 |                 |                    |
|-------------|-------------|-----------------|-----------------|--------------------|
| Series      | Material    |                 |                 |                    |
|             | Zinc plated | Raw             | Polished        | Seawater resistant |
|             | Steel       | Stainless steel | Stainless steel | Stainless steel    |
| 3004        | .04         | .30             | .33             | .35                |



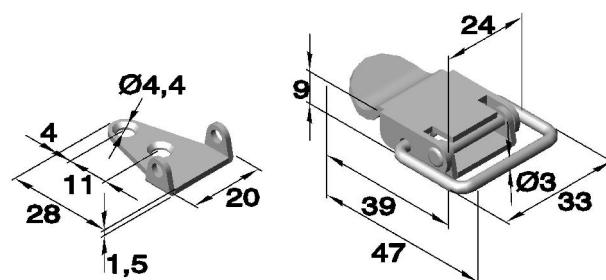
### Art. no.: 3005 (drilled and countersunk)

Suitable strikes: see chapter „B“

Art. no.: 3604.\_ \_

Art. no.: 3619.\_ \_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3005        | .04         |



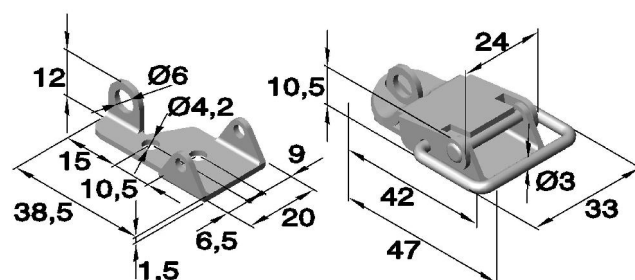
### Art. no.: 3006 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3604.\_ \_

Art. no.: 3619.\_ \_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3006        | .04         |



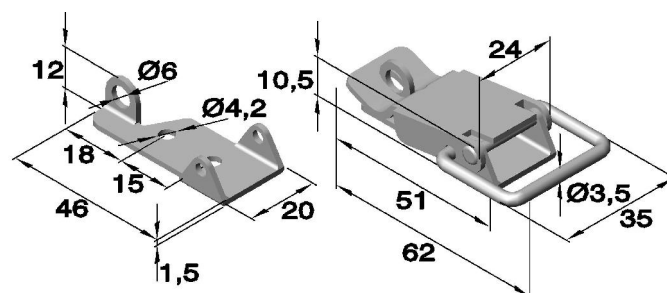
### Art. no.: 3007 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3604.\_ \_      Art. no.: 3610.\_ \_

Art. no.: 3606.\_ \_      Art. no.: 3619.\_ \_

| Article no. |             |                 |                          |
|-------------|-------------|-----------------|--------------------------|
| Series      | Material    |                 |                          |
|             | Zinc plated | Stainless steel | Polished stainless steel |
|             | Steel       | Stainless steel | Stainless steel          |
| 3007        | .04         | .30             | .33                      |



## Latches with wire bracket

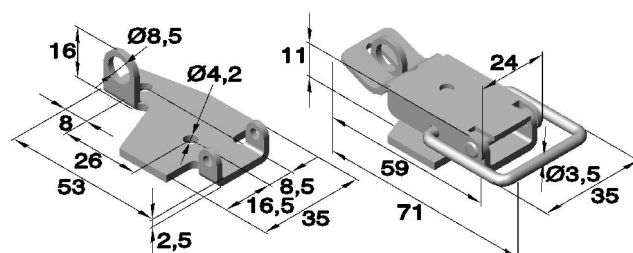
### Art. no.: 3008 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3604. \_\_ Art. no.: 3610. \_\_

Art. no.: 3606. \_\_ Art. no.: 3619. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3008        | .04         |



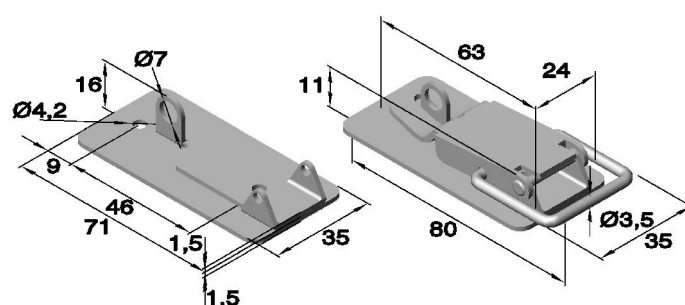
### Art. no.: 3009 (drilled)

Suitable strikes: see chapter „B“

Art. no.: 3604. \_\_ Art. no.: 3610. \_\_

Art. no.: 3606. \_\_ Art. no.: 3619. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3009        | .04         |



### Art. no.: 3011 (drilled)

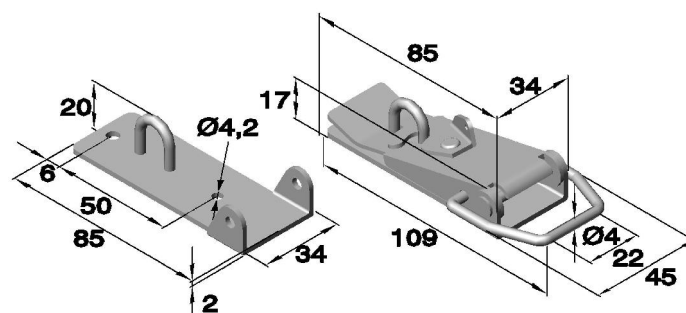
Suitable strikes: see chapter „B“

Art. no.: 3608. \_\_ Art. no.: 3622. \_\_

Art. no.: 3611. \_\_ Art. no.: 3625. \_\_

Art. no.: 3612. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3011        | .04         |



### Art.Nr. 3021 (drilled)

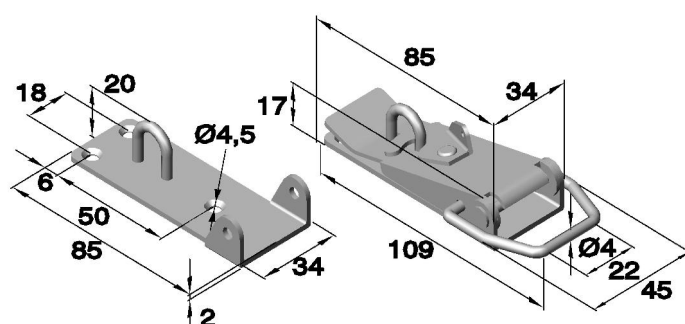
Suitable strikes: see chapter „B“

Art.Nr. 3608. \_\_ Art.Nr. 3622. \_\_

Art.Nr. 3611. \_\_ Art.Nr. 3625. \_\_

Art.Nr. 3612. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3021        | .04         |

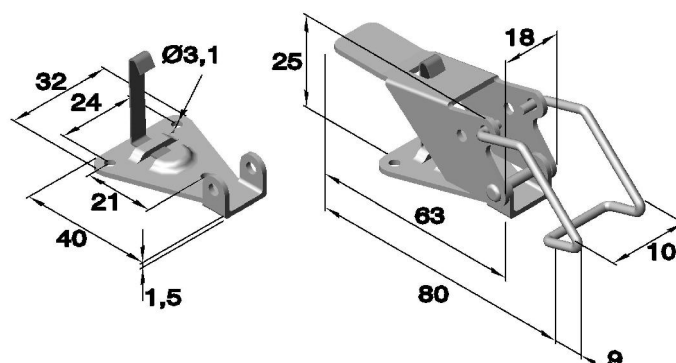


## Latches with wire bracket

Art. no.: 3135 (drilled, with safety spring)

Suitable strikes: see chapter „B“

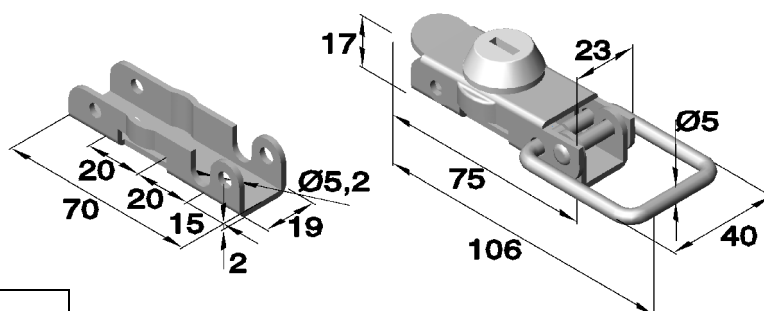
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3135        | .04         |



Art. no.: 6370 (drilled and countersunk)  
with lock

Suitable strikes: see chapter „B“  
Art. no.: 6375.02.04

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6370        | .04         | .30             |

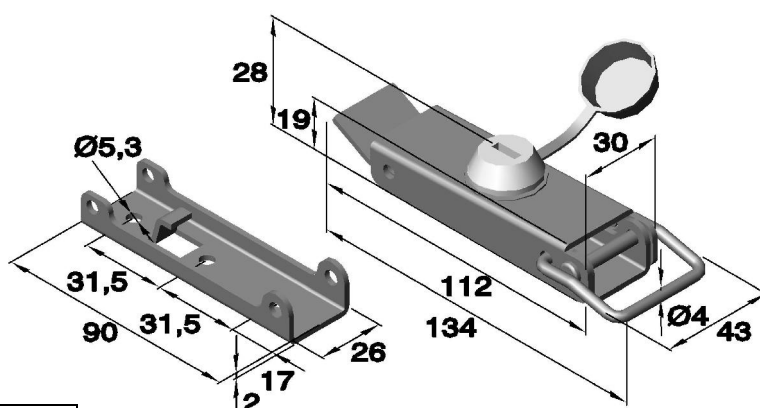


Art.Nr. 1070 (drilled)  
with lock

Permitted tractive force: 2000 N  
Breaking strength: 4000 N

Suitable strikes: see chapter „B“  
Art.no. 1001.\_\_/5

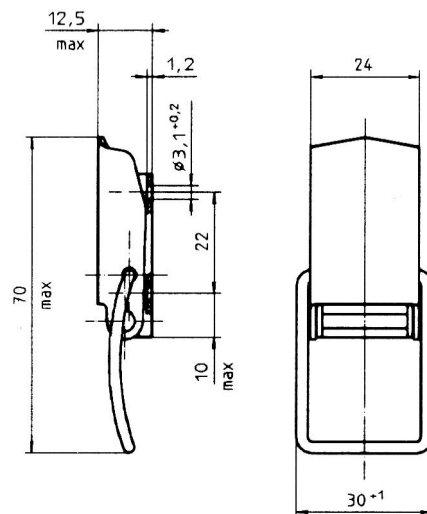
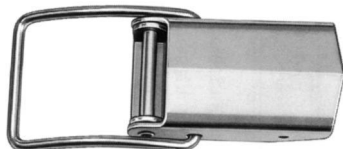
| Article no. |                   |
|-------------|-------------------|
| Series      | Material          |
|             | Black Zinc plated |
|             | Steel             |
| 1070        | .06/6             |



# Latches with wire bracket

## Art.Nr. 1429L (drilled)

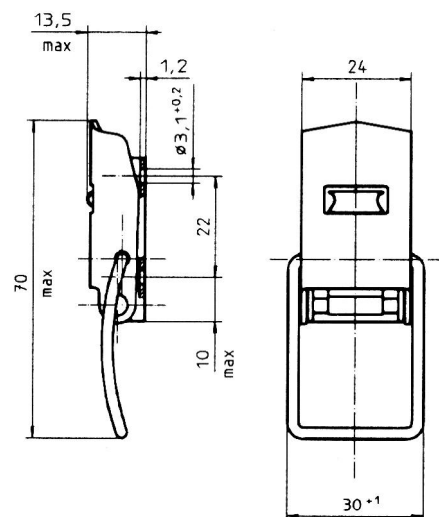
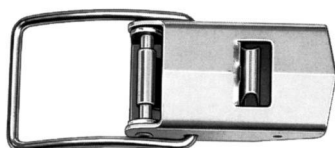
Tensile load 1500 N  
Operating load 1000 N



| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1429L02-2-  | 1AG         | 1BP             |

## Art.Nr. 1429L (drilled)

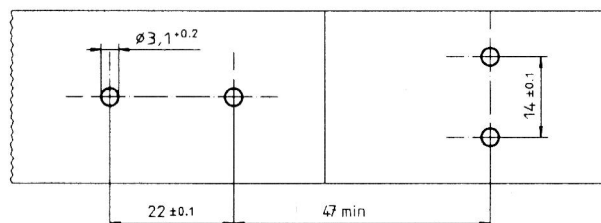
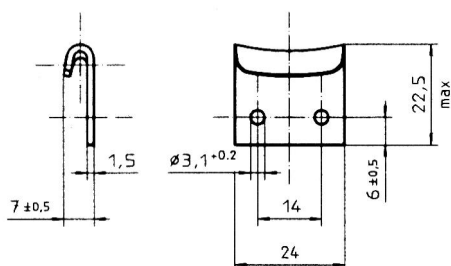
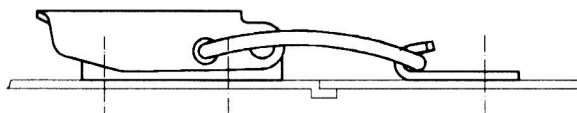
Tensile load 1100 N  
Operating load 800 N



| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1429L02-2X  | 1AG         | 1BP             |

## Suitable clamp

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1429L9-     | 1AG         | 1BP             |

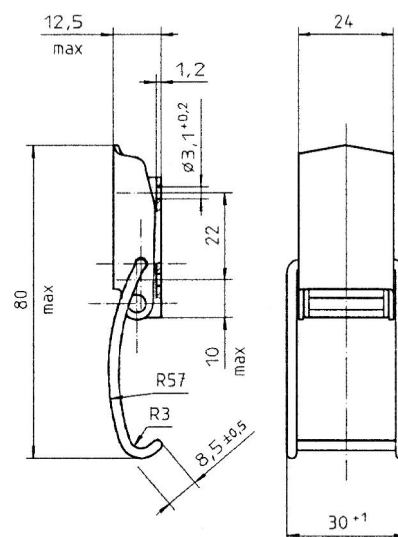
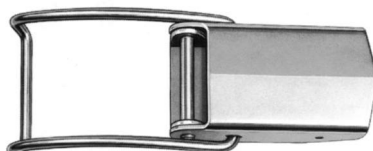




# Latches with wire bracket

## Art.Nr. 1429L (drilled)

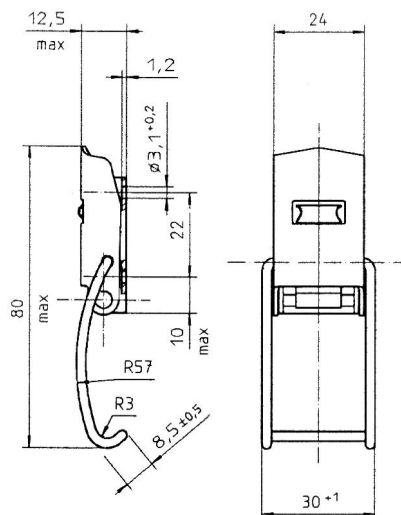
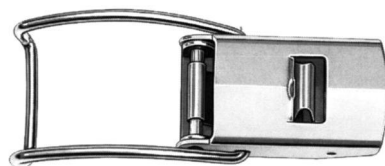
Tensile load max. 1100 N  
Operating load 800 N



| Article no. |             |     |
|-------------|-------------|-----|
| Series      | Material    |     |
|             | Zinc plated | Raw |
| 1429L02-3-  | 1AG         | 1BP |

## Art.Nr. 1429L (drilled)

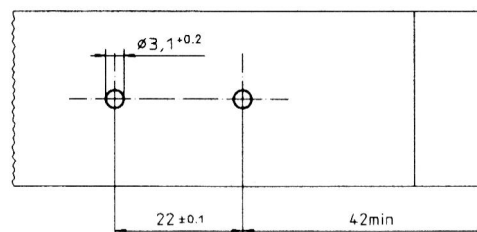
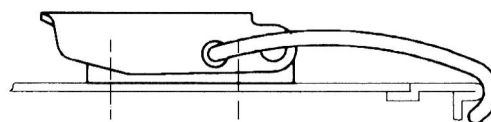
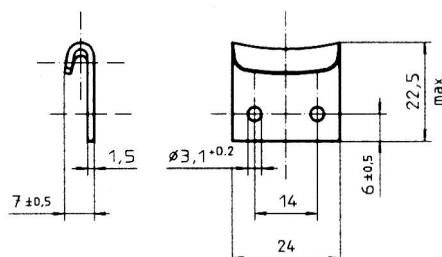
Tensile load max. 1100 N  
Operating load 800 N



| Article no. |             |     |
|-------------|-------------|-----|
| Series      | Material    |     |
|             | Zinc plated | Raw |
| 1429L02-3X  | 1AG         | 1BP |

## Suitable clamp

| Article no. |             |     |
|-------------|-------------|-----|
| Series      | Material    |     |
|             | Zinc plated | Raw |
| 1429L9-     | 1AG         | 1BP |





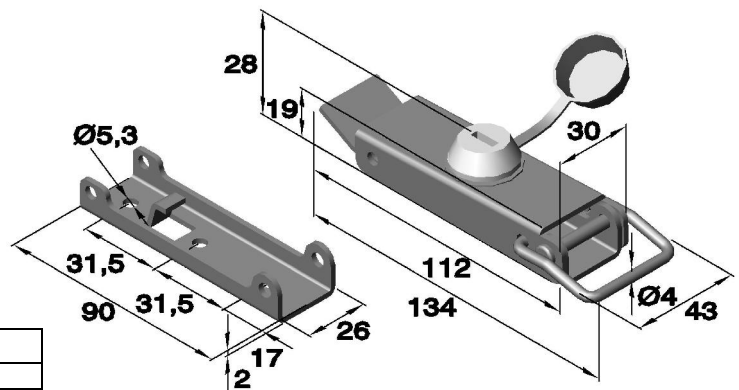


## Lockable latches

**Art.Nr. 1070** (drilled)  
with lock

Permitted tractive force: 2000 N  
Breaking strength: 4000 N

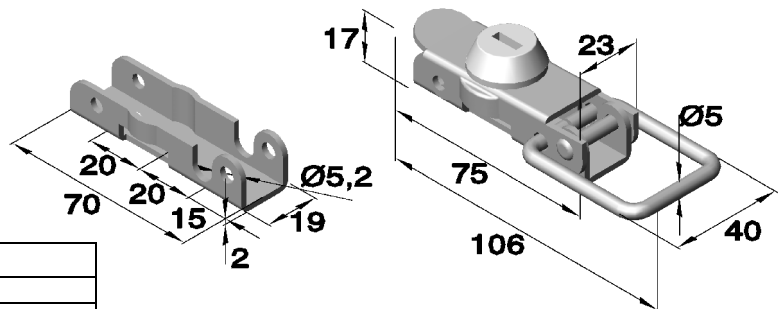
Suitable strikes: see chapter „B“  
Art.no. 1001.\_\_/5



| Article no. |                   |
|-------------|-------------------|
| Series      | Material          |
|             | Black Zinc plated |
|             | Steel             |
| 1070        | .06/6             |

**Art. no.: 6370** (drilled and countersunk)  
with lock

Suitable strikes: see chapter „B“  
Art. no.: 6375.02.04



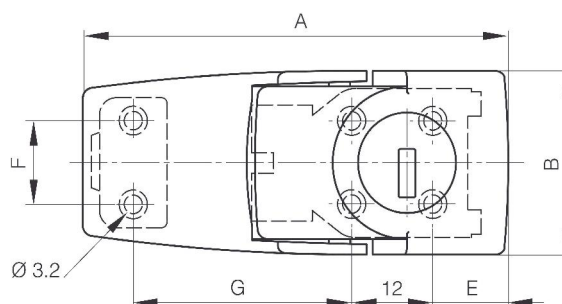
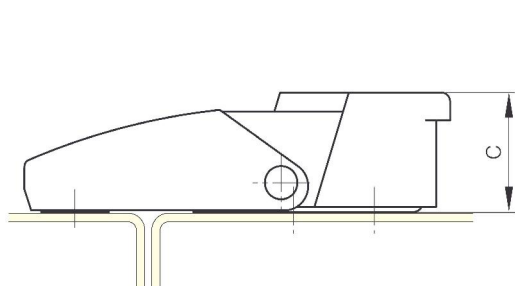
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6370        | .04         | .30             |

## Lockable latches

Art.no.:6344

Strike plate included.

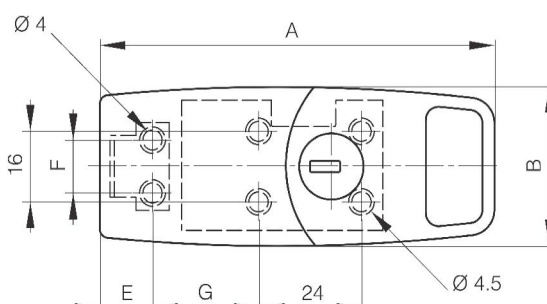
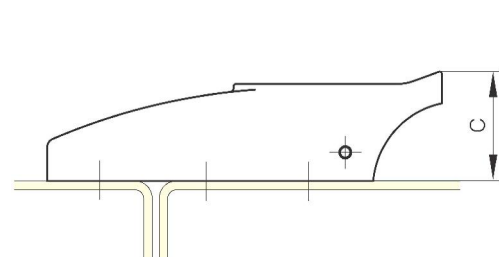
| Article no. |       |              |              | Dimension in mm |      |      |      |    |      |
|-------------|-------|--------------|--------------|-----------------|------|------|------|----|------|
| Series      | Model | Material     |              | A               | B    | C    | E    | F  | G    |
|             |       | Black coated |              |                 |      |      |      |    |      |
|             |       | Zamak        |              |                 |      |      |      |    |      |
| 6344        | .01   | .50          | with lock    | 64,5            | 26,5 | 17,3 | 13   | 12 | 30   |
| 6344        | .02   | .50          | without lock | 64,5            | 26,5 | 17,3 | 13   | 12 | 30   |
| 6344        | .03   | .50          | with lock    | 76              | 32   | 21   | 16,8 | 16 | 35,5 |
| 6344        | .04   | .50          | without lock | 76              | 32   | 21   | 16,8 | 16 | 35,5 |



Art.no.:6332

Strike plate included.

| Article no. |              | Dimension in mm |    |    |    |    |       |
|-------------|--------------|-----------------|----|----|----|----|-------|
| Series      | Material     | A               | B  | C  | E  | F  | G     |
|             | black coated |                 |    |    |    |    |       |
|             | Zamak        |                 |    |    |    |    |       |
| 6332        | .50          | 92              | 36 | 25 | 12 | 12 | 28-32 |





## Adjustable latches



Art.: 1015



Art.: 1016



Art.: 1024



Art.: 1025



Art.: 1027



Art.: 1028



Art.: 1029



Art.: 1030



Art.: 1031



Art.: 1032



Art.: 1033



Art.: 1038



Art.: 3012



Art.: 3013



Art.: 3014



Art.: 3015



Art.: 3016



Art.: 3017



Art.: 3018



Art.: 3019

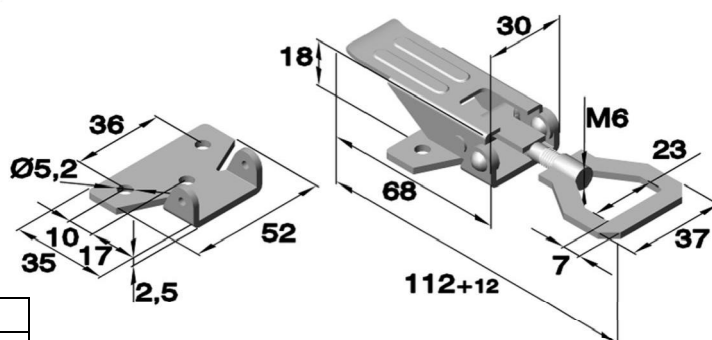
## Adjustable latches

### Art. no.: 1015 (drilled)

Permitted tractive force: 1100N  
Breaking strength: 2500N

Suitable clamps: see chapter „B“  
Art. no.: 1015.\_\_/5

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1015        | .00/6    | .01/6         | .04/6       | .30/6           |

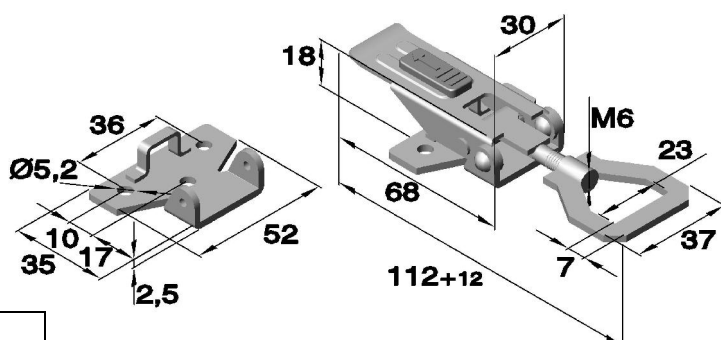


### Art. no.: 1016 (drilled) with safety interlock

Permitted tractive force: 1100N  
Breaking strength: 2500N

Suitable clamps: see chapter „B“  
Art. no.: 1015.\_\_/5

| Article no. |               |                 |
|-------------|---------------|-----------------|
| Series      | Material      |                 |
|             | Nickel plated | Raw             |
|             | Steel         | Stainless steel |
| 1016        | .01/6         | .30/6           |

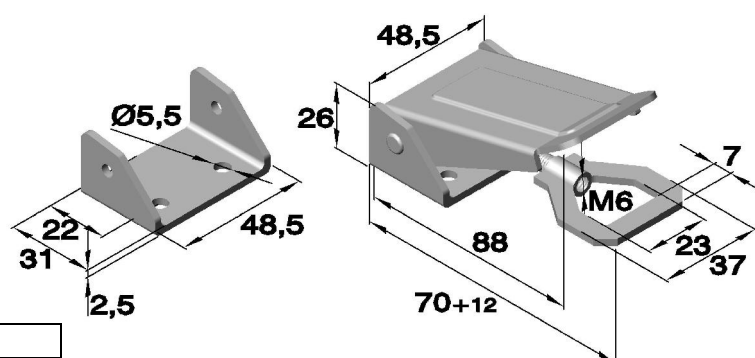


### Art. no.: 1024 (drilled)

Permitted tractive force: 1500N  
Breaking strength: 3000 N

Suitable clamps: see chapter „B“  
Art. no.: 1024.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1024        | .04/6       | .30/6           |

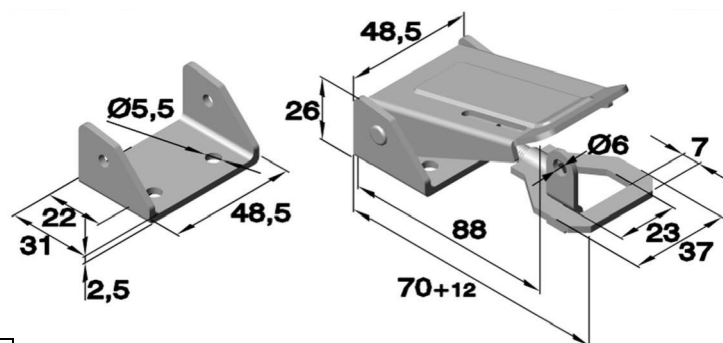


## Adjustable latches

Art. no.: 1025 (drilled)  
with lock bracket

Permitted tractive force: 1500N  
Breaking strength: 3000N

Suitable clamps: see chapter „B“  
Art. no.: 1024.\_\_/5

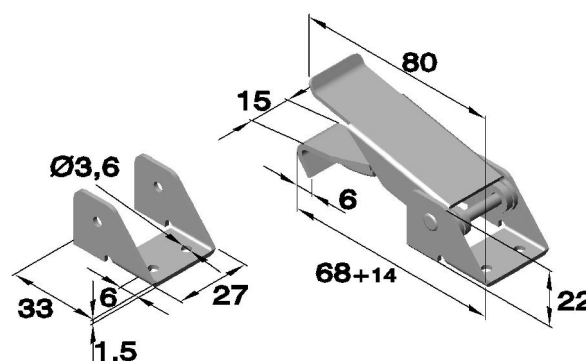


| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1025        | .04/6       |

Art. no.: 1027 (drilled)

Permitted tractive force: 1000N  
Breaking strength: 2000N

Suitable clamps: see chapter „B“  
Art. no.: 1027.\_\_/5

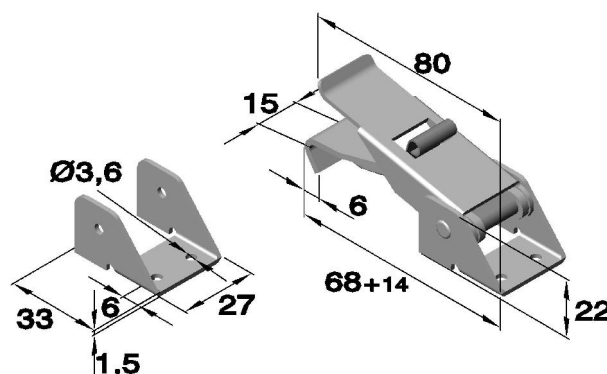


| Article no. |               |             |  |
|-------------|---------------|-------------|--|
| Series      | Material      |             |  |
|             | Nickel plated | Zinc plated |  |
|             | Steel         | Steel       |  |
| 1027        | .01/6         | .04/6       |  |

Art. no.: 1028 (drilled)  
with safety spring

Permitted tractive force: 1000N  
Breaking strength: 2000N

Suitable clamps: see chapter „B“  
Art. no.: 1027.\_\_/5



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1028        | .04/6       |



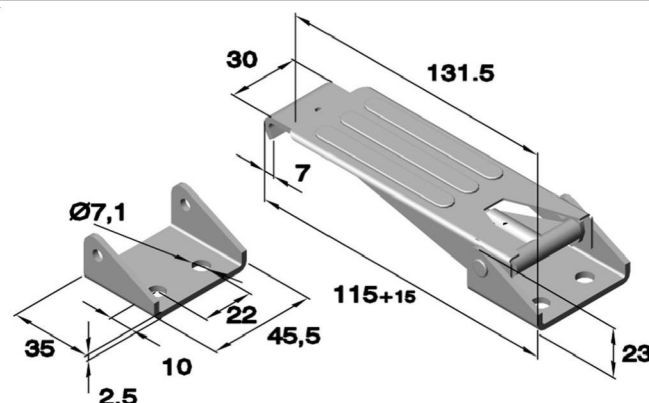
## Adjustable latches

### Art. no.: 1029 (drilled)

Permitted tractive force: 2000N  
Breaking strength: 4000N

Suitable clamps: see chapter „B“  
Art. no.: 1029.\_\_/5

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1029        | .04/6       |

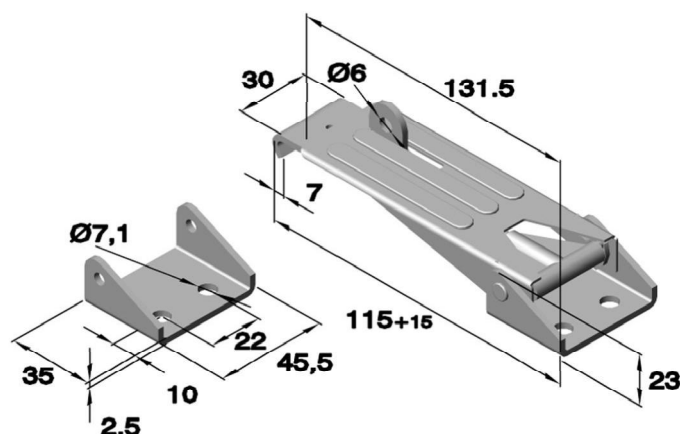


### Art. no.: 1030 (drilled) with secondary loop lock

Permitted tractive force: 2000N  
Breaking strength: 4000N

Suitable clamps: see chapter „B“  
Art. no.: 1029.\_\_/5

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1030        | .04/6       |

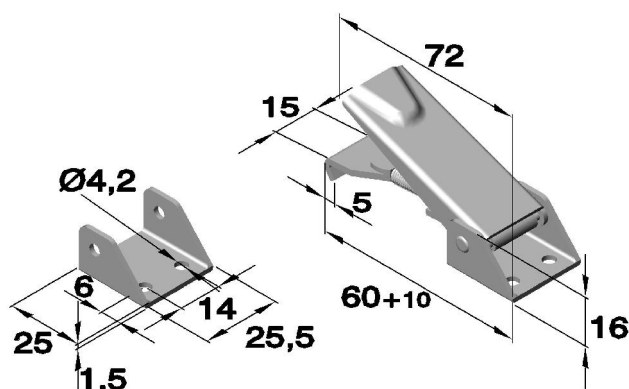


### Art. no.: 1031 (drilled)

Permitted tractive force: 1000N  
Breaking strength: 1400N

Suitable clamps: see chapter „B“  
Art. no.: 1031.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
|             | .04/6       | .30/6           |
| 1031        | .04/6       | .30/6           |





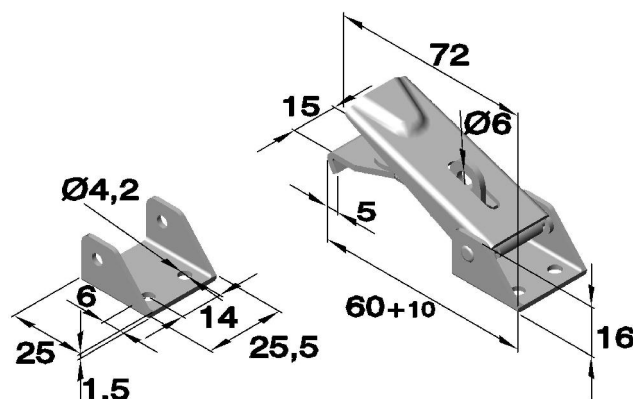
## Adjustable latches

**Art. no.: 1032** (drilled)  
with secondary loop lock

Permitted tractive force: 1000N  
Breaking strength: 1400N

Suitable clamps: see chapter „B“  
Art. no.: 1031.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1032        | .04/6       | .30/6           |

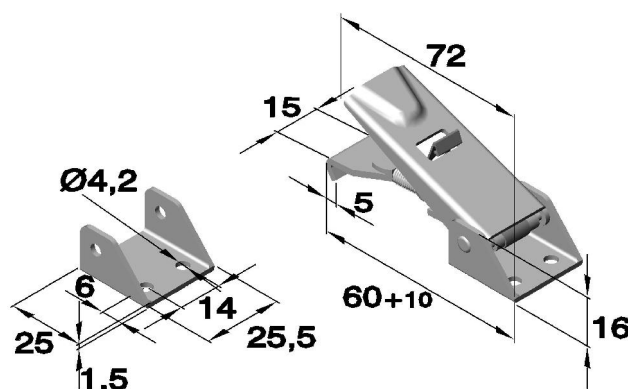


**Art. no.: 1033** (drilled)  
with safety spring

Permitted tractive force: 1000N  
Breaking strength: 1400N

Suitable clamps: see chapter „B“  
Art. no.: 1031.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1033        | .04/6       | .30/6           |

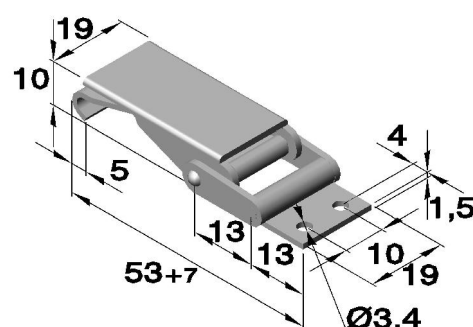


**Art. no.: 1038** (drilled)

Permitted tractive force: 750N  
Breaking strength: 1500N

Suitable clamps: see chapter „B“  
Art. no.: 1038.\_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1038        | .04/6       | .30/6           |



## Adjustable latches

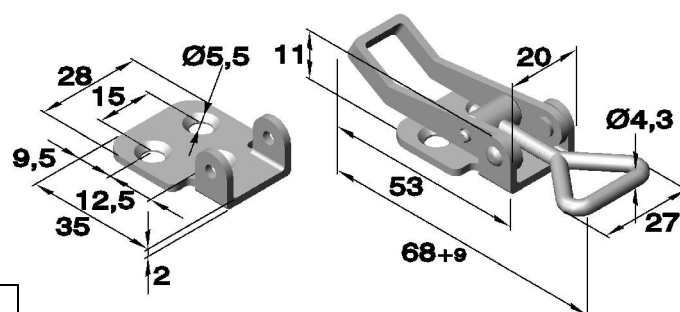
### Art. no.: 3012 (drilled and countersunk)

Suitable clamps: see chapter „B“

Art. no.: 3605. \_\_

Art. no.: 3616. \_\_

Art. no.: 3618. \_\_



| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | stainless steel |
| 3012        | .04         | .30             | .33             |

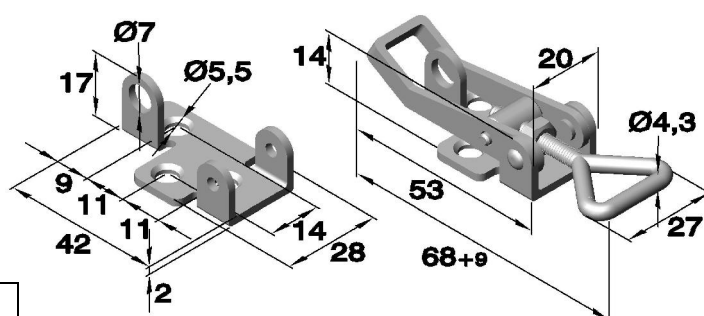
### Art. no.: 3013 (drilled and countersunk) with padlock

Suitable clamps: see chapter „B“

Art. no.: 3605. \_\_

Art. no.: 3616. \_\_

Art. no.: 3618. \_\_



| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | Stainless steel |
| 3013        | .04         | .30             | .33             |

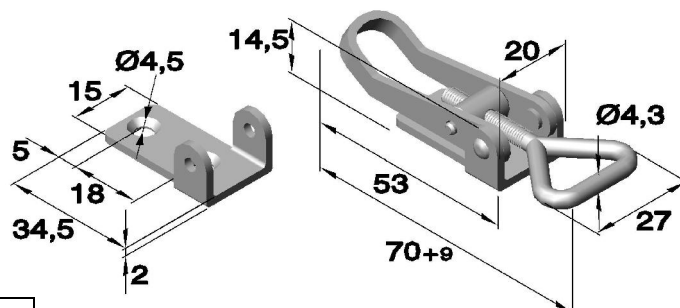
### Art. no.: 3014 (drilled and countersunk)

Suitable clamps: see chapter „B“

Art. no.: 3605. \_\_

Art. no.: 3616. \_\_

Art. no.: 3618. \_\_



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3014        | .04         |

## Adjustable latches

Art.no.: 3014.\_\_-U1

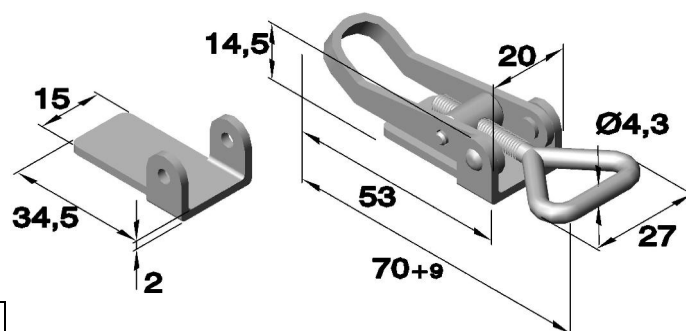
Suitable clamps: see chapter „B“

Art.no. 3605.\_\_

Art.no. 3616.\_\_

Art.no. 3618.\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3014        | .04-U1      |



Art.no. 3014.\_\_-U1S (with welding projection)

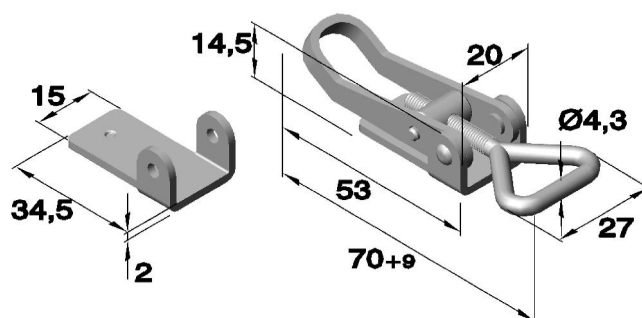
Suitable clamps: see chapter „B“

Art.no. 3605.\_\_

Art.no. 3616.\_\_

Art.no. 3618.\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3014        | .04-U1S     |



Art. no.: 3015 (drilled and countersunk)  
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.3608.\_\_

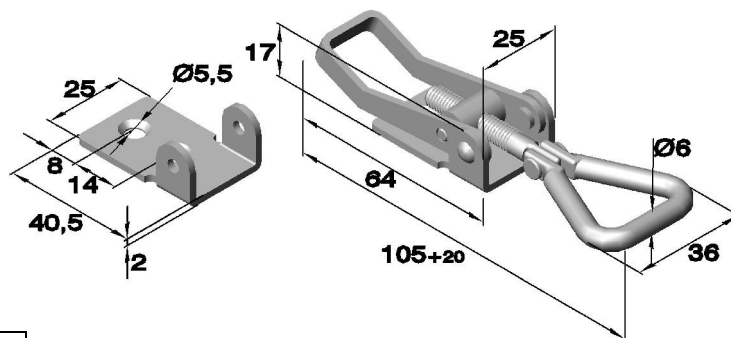
Art. no.: 3622.\_\_

Art. no.: 3611.\_\_

Art. no.: 3625.\_\_

Art. no.: 3612.\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3015        | .04         |



## Adjustable latches

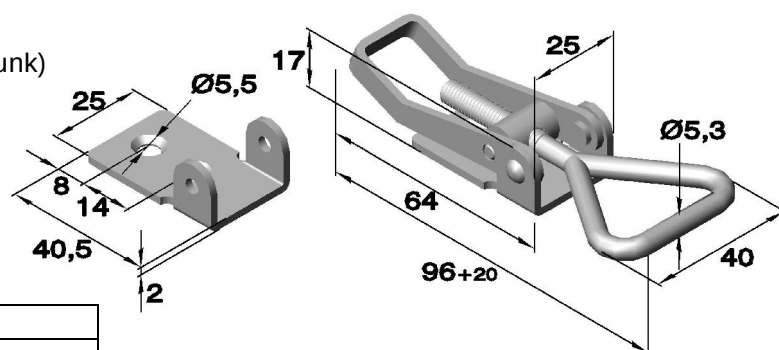
Art. no.: 3015.\_\_\_\_ (drilled and countersunk)  
with welded triangle

Suitable clamps: see chapter „B“

Art. no.: 3608.\_\_\_\_ Art. no.: 3622.\_\_\_\_

Art. no.: 3611.\_\_\_\_ Art. no.: 3625.\_\_\_\_

Art. no.: 3612.\_\_\_\_



| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 3015        | .30             |

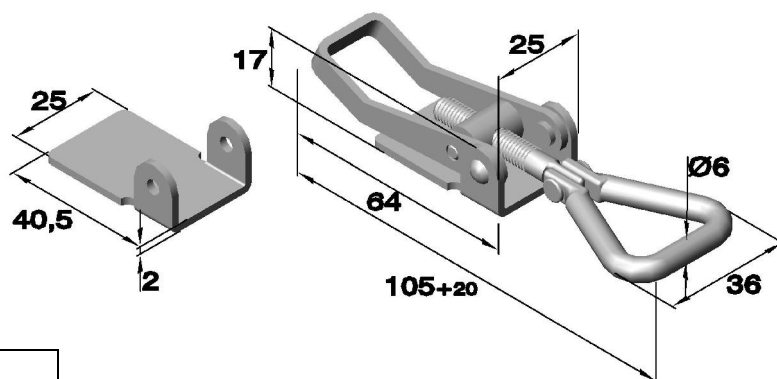
Art. no.: 3015.\_\_\_\_  
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.: 3608.\_\_\_\_ Art. no.: 3622.\_\_\_\_

Art. no.: 3611.\_\_\_\_ Art. no.: 3625.\_\_\_\_

Art. no.: 3612.\_\_\_\_



| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Polished        |
|             | Steel       | Stainless steel |
| 3015        | .04 G-1     | .33 RF-1        |

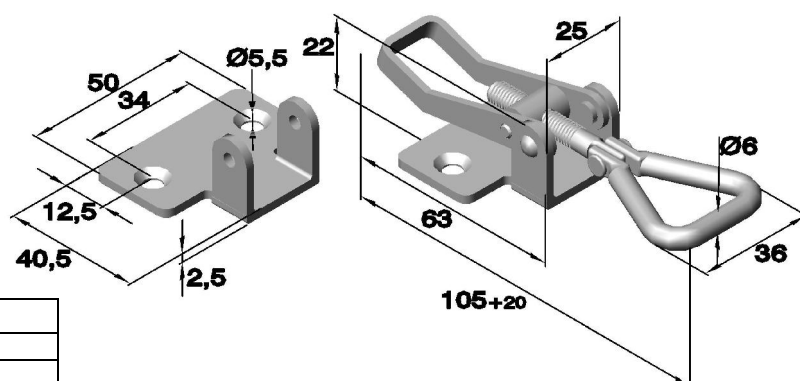
Art. no.: 3016 (drilled and countersunk)  
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.3608.\_\_\_\_ Art. no.: 3622.\_\_\_\_

Art. no.: 3611.\_\_\_\_ Art. no.: 3625.\_\_\_\_

Art. no.: 3612.\_\_\_\_



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3016        | .04         |

## Adjustable latches

### Art. no.: 3016.\_\_-U1

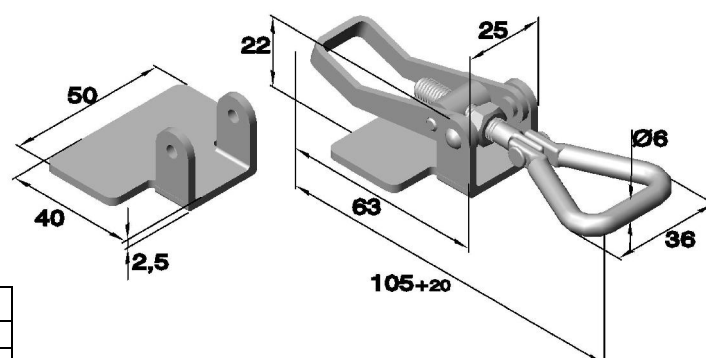
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.3608.\_\_ Art. no.: 3622.\_\_

Art. no.: 3611.\_\_ Art. no.: 3625.\_\_

Art. no.: 3612.\_\_



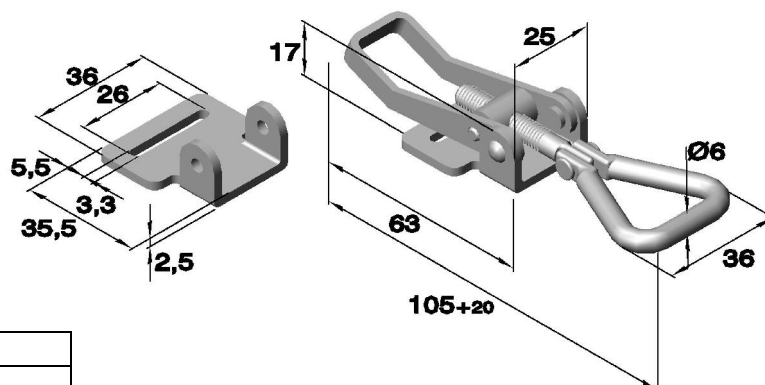
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Polished        |
|             | Steel       | Stainless steel |
| 3016        | .04-U1      | .30-U1          |

### Art. no.: 3017

with riveted triangle

Suitable clamps: see chapter „B“

Art. no.3609.\_\_



| Article no. |             |       |
|-------------|-------------|-------|
| Series      | Material    |       |
|             | Zinc plated | Steel |
| 3017        | .04         |       |

### Art. no.: 3018 (drilled and countersunk)

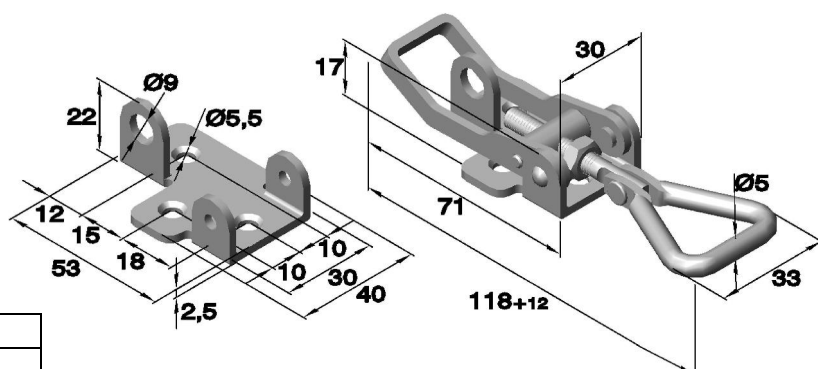
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.: 3608.\_\_ Art. no.: 3622.\_\_

Art. no.: 3611.\_\_ Art. no.: 3625.\_\_

Art. no.: 3612.\_\_



| Article no. |             |       |
|-------------|-------------|-------|
| Series      | Material    |       |
|             | Zinc plated | Steel |
| 3018        | .04         |       |



## Adjustable latches

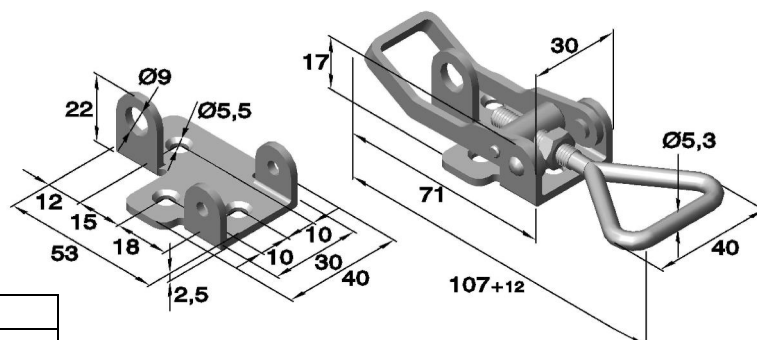
**Art. no.: 3018** (drilled and countersunk)  
with welded triangle

Suitable clamps: see chapter „B“

Art. no.: 3608. \_\_ Art. no.: 3622. \_\_

Art. no.: 3611. \_\_ Art. no.: 3625. \_\_

Art. no.: 3612. \_\_



| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Polished        |
|             | Stainless steel |
| 3018        | .30             |

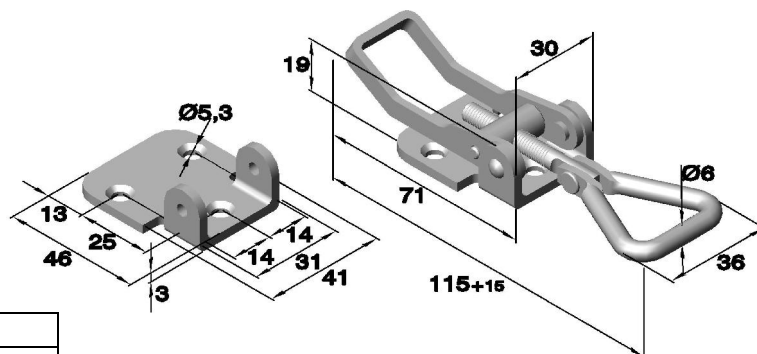
**Art. no.: 3019** (drilled and countersunk)  
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.: 3608. \_\_ Art. no.: 3622. \_\_

Art. no.: 3611. \_\_ Art. no.: 3625. \_\_

Art. no.: 3612. \_\_



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3019        | .04         |

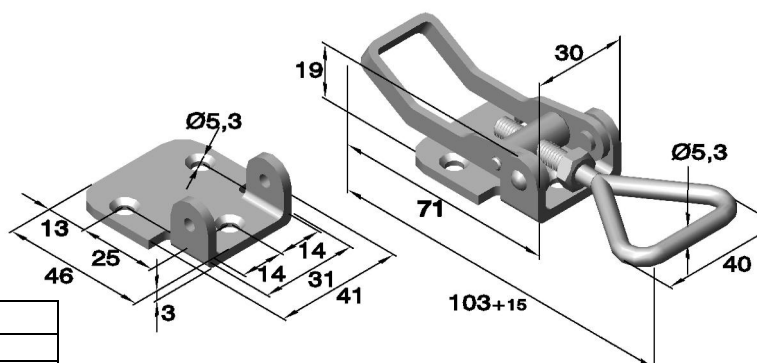
**Art. no.: 3019** (drilled and countersunk)  
with riveted triangle

Suitable clamps: see chapter „B“

Art. no.: 3608. \_\_ Art. no.: 3622. \_\_

Art. no.: 3611. \_\_ Art. no.: 3625. \_\_

Art. no.: 3612. \_\_

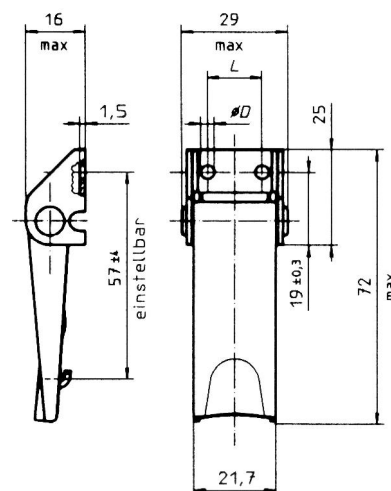
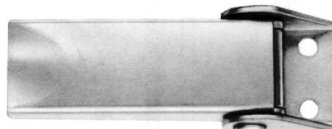


| Article no. |                 |                 |
|-------------|-----------------|-----------------|
| Series      | Material        |                 |
|             | Stainless steel | Polished        |
|             | Stainless steel | Stainless steel |
|             | .30             | .33             |

# Adjustable latches

## Art.no. V951L02 (drilled)

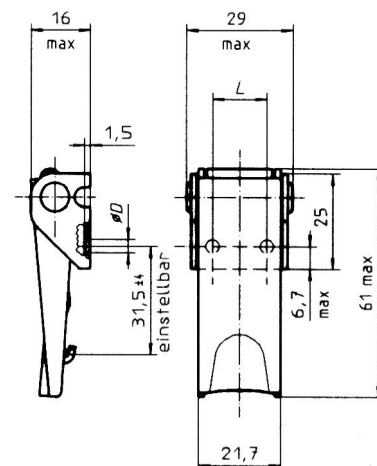
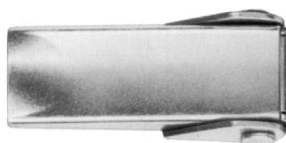
Tensile load max. 2300 N  
Operating load up to 1550 N



| Article no. |             |           |                 | Dimensions in mm |      |
|-------------|-------------|-----------|-----------------|------------------|------|
| Series      | Material    |           |                 | D                | L    |
|             | Zinc plated | Chromated | Raw             |                  |      |
|             | Steel       | Steel     | Stainless steel |                  |      |
| V951L02-1-  | 1AGV        | 1AD       | 1BP             | 3,6              | 14,3 |
| V951L02-1-  | 5AGV        | -         | 5BP             | 4,2              | 12,7 |
| V951L02-1-  | 2AGV        | -         | 2BP             | without bore     | -    |

## Art.no. V951L03 (drilled)

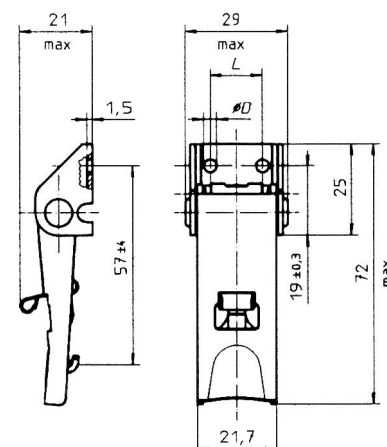
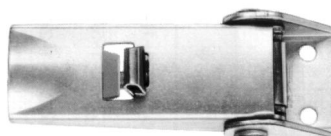
Tensile load max.. 1200 N  
Operating load up to 800 N



| Article no. |             |           |                 | Dimensions in mm |      |
|-------------|-------------|-----------|-----------------|------------------|------|
| Series      | Material    |           |                 | D                | L    |
|             | Zinc plated | Chromated | Raw             |                  |      |
|             | Steel       | Steel     | Stainless steel |                  |      |
| V951L03-1-  | 1AGV        | 1AD       | 1BP             | 3,6              | 14,3 |
| V951L03-1-  | 5AGV        | -         | 5BP             | 4,2              | 12,7 |

## Art.no. V951L04 (drilled)

Tensile load max.. 2300 N  
Operating load up to 1550 N

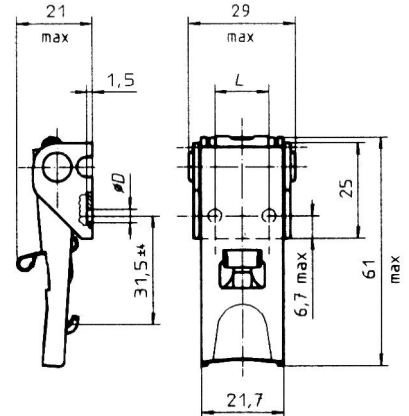
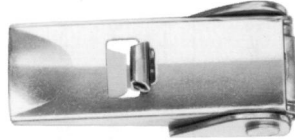


| Article no. |             |           |                 | Dimensions in mm |      |
|-------------|-------------|-----------|-----------------|------------------|------|
| Series      | Material    |           |                 | D                | L    |
|             | Zinc plated | Chromated | Raw             |                  |      |
|             | Steel       | Steel     | Stainless steel |                  |      |
| V951L04-1X  | 1AGV        | 1AD       | 1BP             | 3,6              | 14,3 |
| V951L04-1X  | 5AGV        | -         | 5BP             | 4,2              | 12,7 |
| V951L04-1X  | -           | -         | 2BP             | without bore     | -    |

# Adjustable latches

## Art.no. V951L03 (drilled)

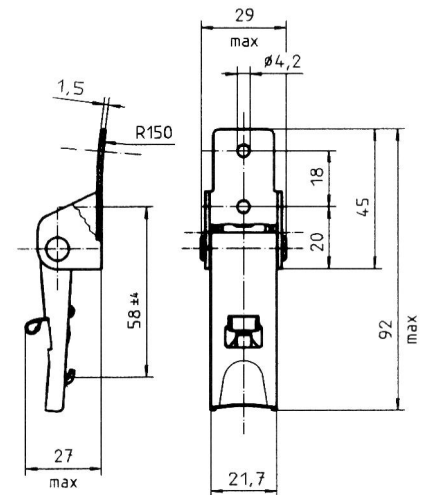
Tensile load max.. 1200 N  
Operational load up to 800 N



| Article no. |             |           |                 | Dimensions in mm |      |
|-------------|-------------|-----------|-----------------|------------------|------|
| Series      | Material    |           |                 | D                | L    |
|             | Zinc plated | Chromated | Raw             |                  |      |
|             | Steel       | Steel     | Stainless steel |                  |      |
| V951L03-1X  | -           | 1AD       | 1BP             | 3,6              | 14,3 |
| V951L03-1X  | 5AGV        | -         | 5BP             | 4,2              | 12,7 |

## Art.no. V951L05 (drilled)

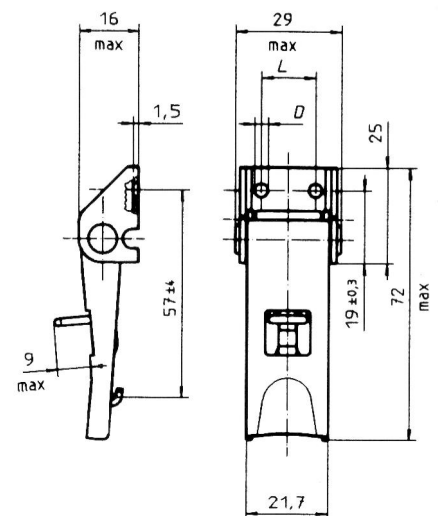
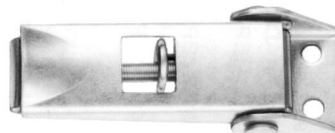
Tensile load max. 2300 N  
Operating load up to 1550 N



| Article no. |             |                 | Dimensions in mm |  |
|-------------|-------------|-----------------|------------------|--|
| Series      | Material    |                 | D                |  |
|             | Zinc plated | Raw             |                  |  |
|             | Steel       | Stainless steel |                  |  |
| V951L05-1X  | 1AGV        | 1BP             | 4,2              |  |
| V951L05-1X  | -           | 5BP             | 5,1              |  |

## Art.no. V951L01 (drilled)

Tensile load max.. 2300 N  
Operating load up to 1550 N

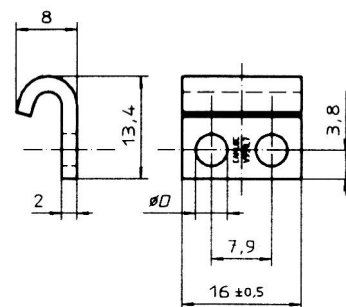
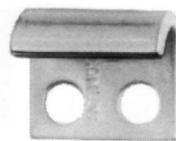


| Article no. |             | Dimensions in mm |  |
|-------------|-------------|------------------|--|
| Series      | Material    | D                |  |
|             | Zinc plated |                  |  |
|             | Steel       |                  |  |
| V951L01-1Y  | 5AGV        | 4,2              |  |
| V951L01-1Y  | 2AGV        | without bore     |  |

# Adjustable latches

## Suitable strike of Series V951L

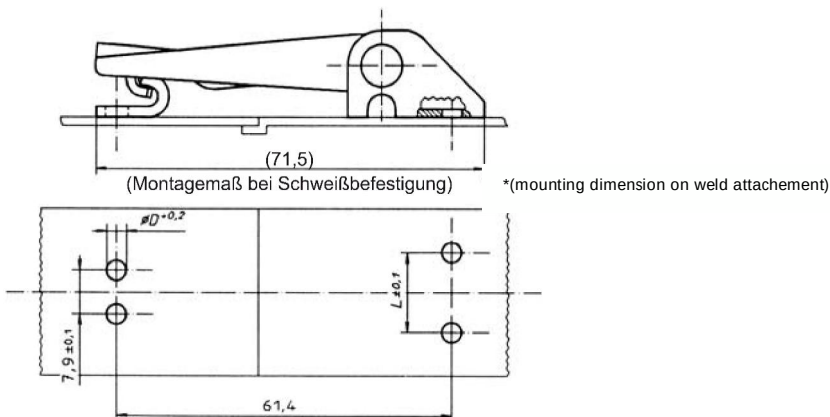
|                   | Zinc plated<br>Chromated | Stainless steel |
|-------------------|--------------------------|-----------------|
| Tensile load max. | 2300 N                   | 1500 N          |
| Operating load    | 1550 N                   | 1000 N          |



| Article no. |             |           |                 | Dimensions in mm |
|-------------|-------------|-----------|-----------------|------------------|
| Series      | Material    |           |                 | D                |
|             | Zinc plated | Chromated | Raw             |                  |
|             | Steel       | Steel     | Stainless steel |                  |
| V951L7-     | 1AGV        | 1AD       | 1BP             | 3,6              |
| V951L7-     | 5AGV        | -         | 5BP             | 4,2              |
| V951L7-     | 2AZ         | -         | 2BP             | without bore     |

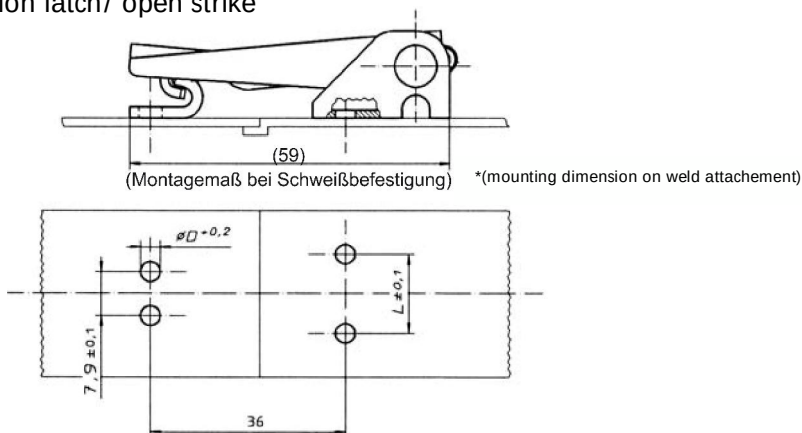
## Open-base tension latch/ open strike

V951L02-  
V951L04-  
V951L01-



## Concealed base tension latch/ open strike

V951L03-

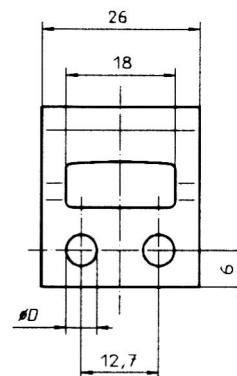
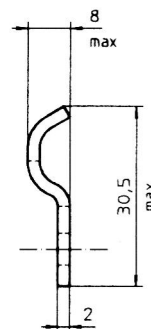


Select diameter D and distance L in accordance with the strike and tension latch.

# Adjustable latches

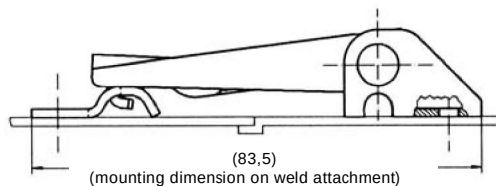
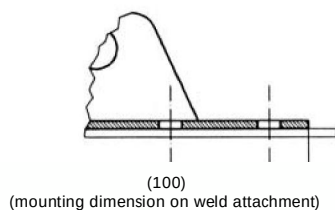
## Suitable strike of Series V951L

|                   |             |                 |
|-------------------|-------------|-----------------|
|                   | Zinc plated | Stainless steel |
| Tensile load max. | 2000 N      | 1500 N          |
| Operating load    | 1300 N      | 1000 N          |

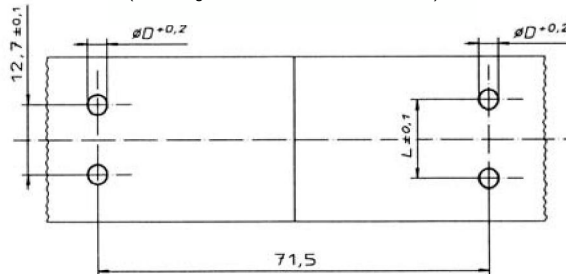
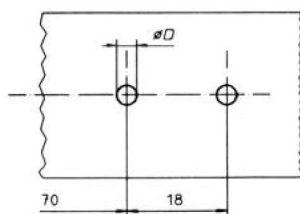


| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V951L50-    | -           | 2BP             | 3,6              |
| V951L50-    | 1AGV        | 1BP             | 4,2              |
| V951L50-    | -           | 3BP             | without bore     |

### Open-base tension latch/ closed strike



V951L05-

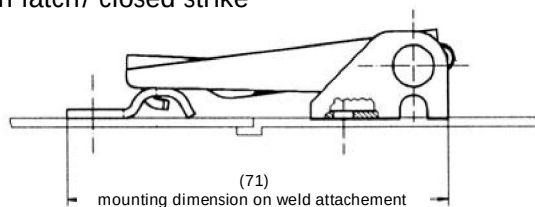


V951L02-  
V951L04-  
V951L01-

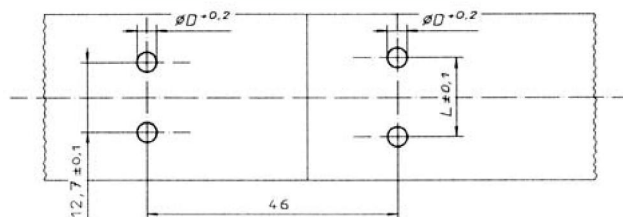
V951L50-

### Concealed-base tension latch/ closed strike

V951L03-



V951L50-



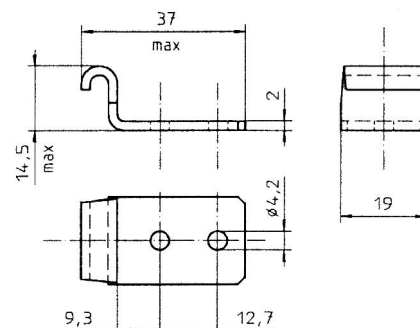
Select diameter D and distance L in accordance with the strike and tension latch.



# Adjustable latches

## Suitable strike of Series V951L

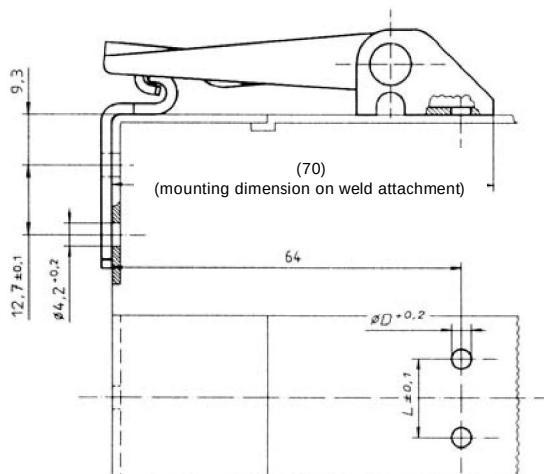
|                    |             |                 |
|--------------------|-------------|-----------------|
|                    | Zinc plated | Stainless steel |
| Tensile load max.. | 2300 N      | 1500 N          |
| Operating load     | 1550 N      | 1000 N          |



| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V951L52-    | 1AGV        | 1BP             | 4,2              |

## Open-base tension latch/ corner- mounting strike

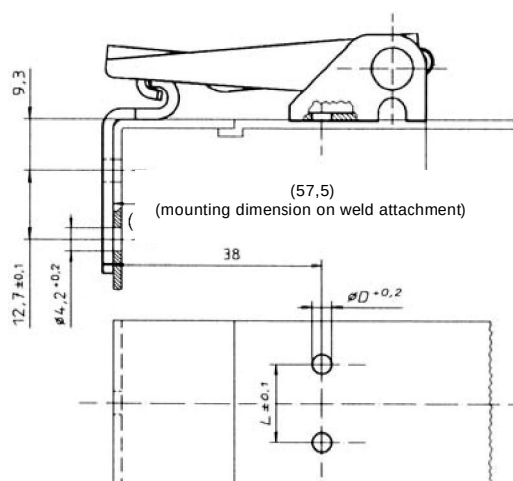
V951L02-  
V951L04-  
V951L01-



V951L52-

## Concealed-base tension latch/ corner- mounting strike

V951L03-



V951L52-

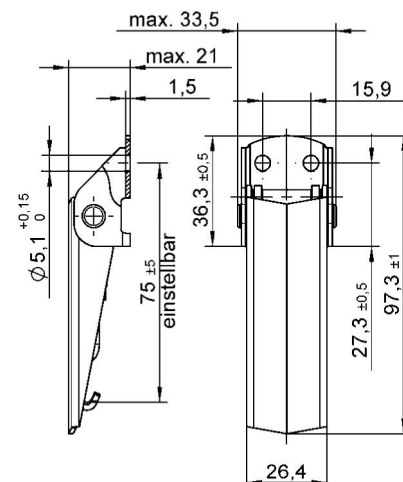
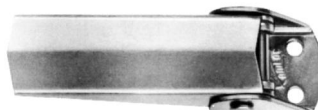
Select diameter D and distance L in accordance with the strike and tension latch.

## Adjustable latches

Art.no. V917L01 (drilled)

|                      |        |
|----------------------|--------|
| Tensile load max..   | 3600 N |
| Operating load up to | 2700 N |

Open base

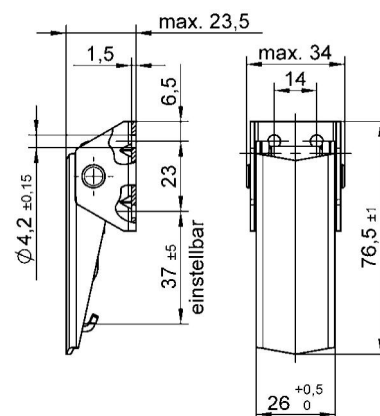
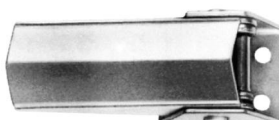


| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| V917L01-1-  | 1AG         | 1BP             |

Art.no. V17L12 (drilled)

Tensile load max.. 3200 N  
Operating load up to 2200 N

High base



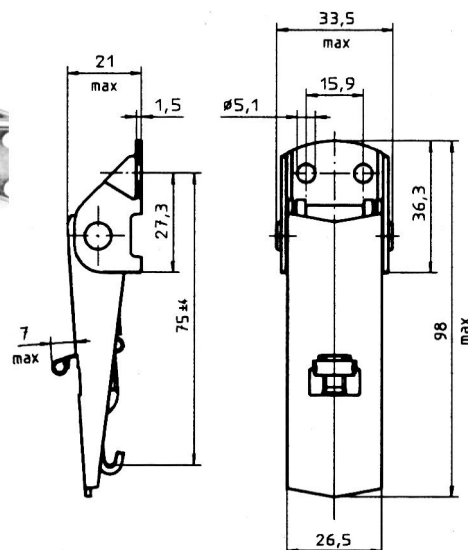
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| V17L12-1-   | 1AA         |

Art.no. V917L01 (drilled)

with protection

Tensile load max.. 3600 N  
Operating load up to 2700 N

and open base



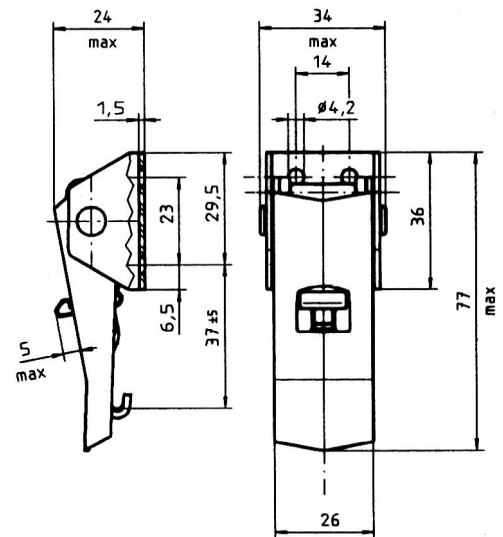
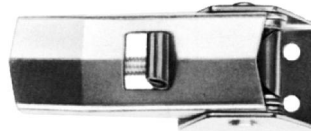
| Article no. |                |                 |                 | Dimensions<br>in mm |
|-------------|----------------|-----------------|-----------------|---------------------|
| Series      | Material       |                 |                 | D                   |
|             | Zinc<br>plated | Raw             | V4A             |                     |
|             | Steel          | Stainless steel | Stainless steel |                     |
| V917L01-1X  | 1AG            | 1BP             | 1CP             | 5,1                 |
| V917L01-1X  | -              | 2BP             | 2CP             | without bore        |

# Adjustable latches

## Art.no. V17L12 (drilled) with protection

Tensile load max.. 3200 N  
Operating load up to 2200 N

High base

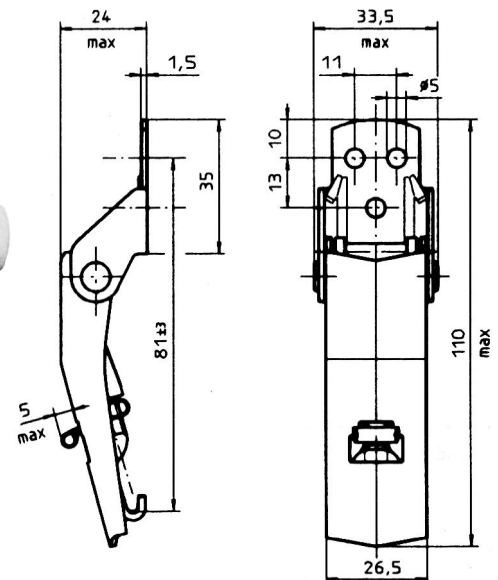


| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Zinc plated     |
|             | Stainless steel |
| V17L12-2X   | 1AA             |

## Art.no. V1449L02 (drilled) with protection

Tensile load max.. 3600 N  
Operating load up to 2700 N

for curved surfaces (R min = 125 mm)

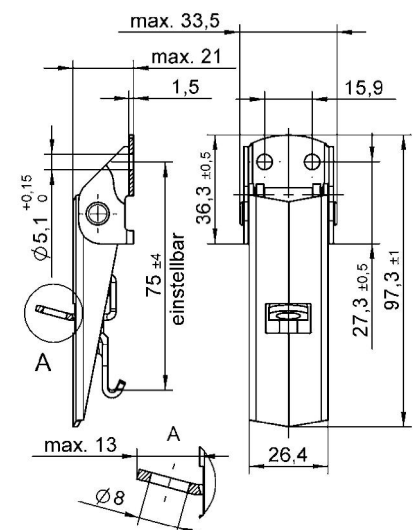
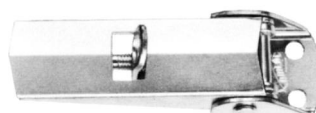


| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| V1449L02-1X | 1AG         | 1BP             |

## Art.no. V917L01 (drilled) with hasp

Tensile load max.. 3200 N  
Operating load up to 2200 N

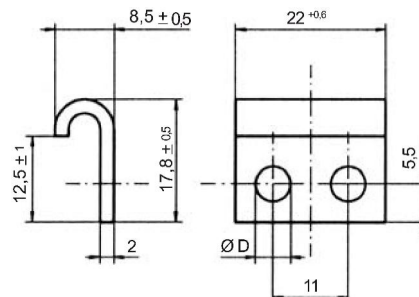
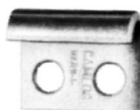
Open base



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| V917L01-1Y  | 1AG         |

# Adjustable latches

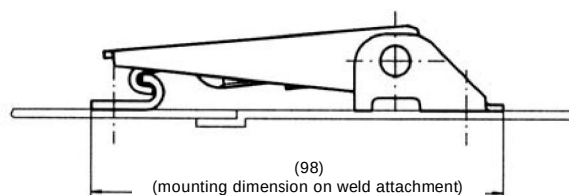
## Suitable strike of Series V917L01 V17L12



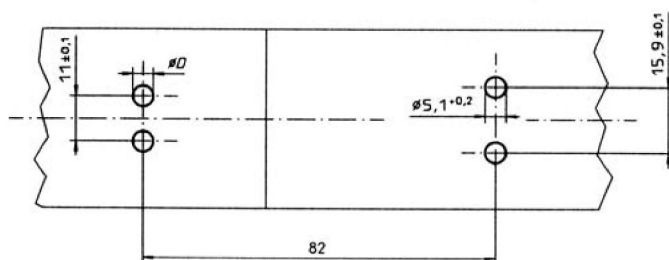
| Article no. |             |                 | Dimensions<br>in mm |
|-------------|-------------|-----------------|---------------------|
| Series      | Material    |                 | D                   |
|             | Zinc plated | Raw             |                     |
|             | Steel       | Stainless steel |                     |
| V917L11-1-  | 3AG         | -               | 4,2                 |
| V917L11-1-  | 1AG         | 1BP             | 5,1                 |

### Open-base tension latch/ open strike

V917L01-

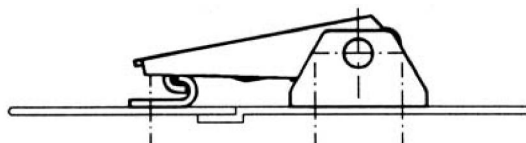


V917L11-

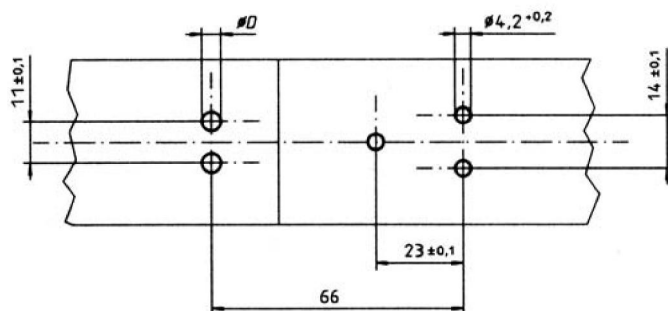


### High-base tension latch/ open strike

V17L12-



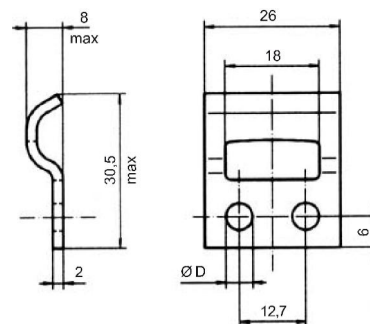
V917L11-



Select diameter D and distance L in accordance with the strike and tension latch.

# Adjustable latches

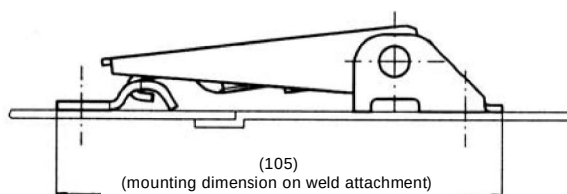
Suitable strike of series V917L01  
1449L02



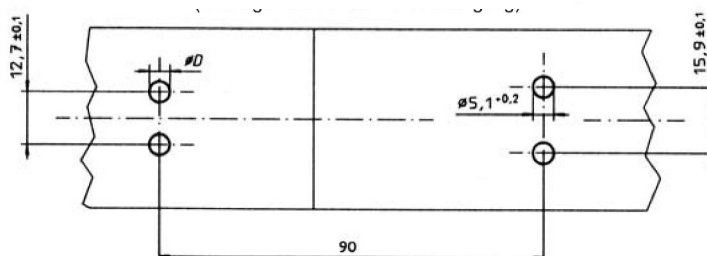
| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V951L50-    | 1AGV        | 1BP             | 4,2              |
| V951L50-    | 5AGV        | -               | 5,1              |
| V951L50-    | -           | 3BP             | without bore     |

Open-base tension latch/ closed strike

V917L01-

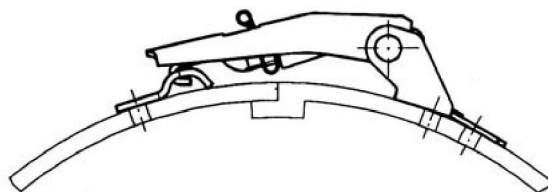


V951L50-

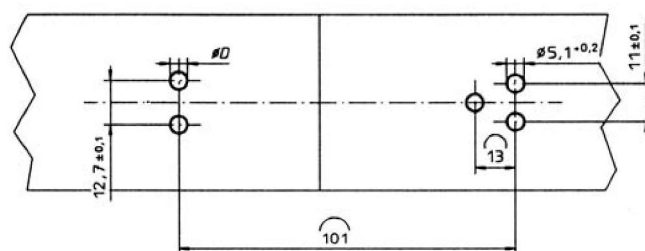


High-base tension latch/ closed strike

1449L02-



V951L50-



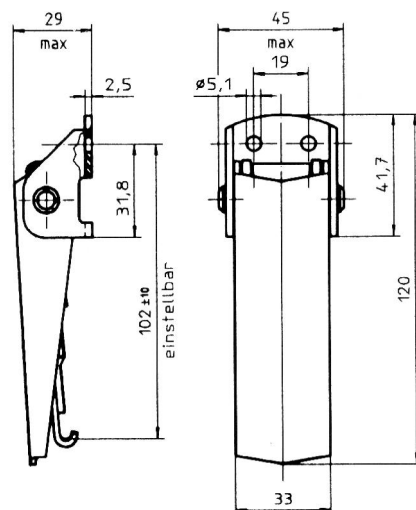
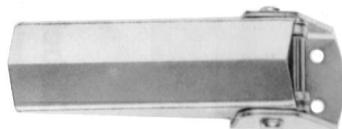
Select diameter D and distance L in accordance with the strike and tension latch.



# Adjustable latches

## Art.no. V18L01 (drilled)

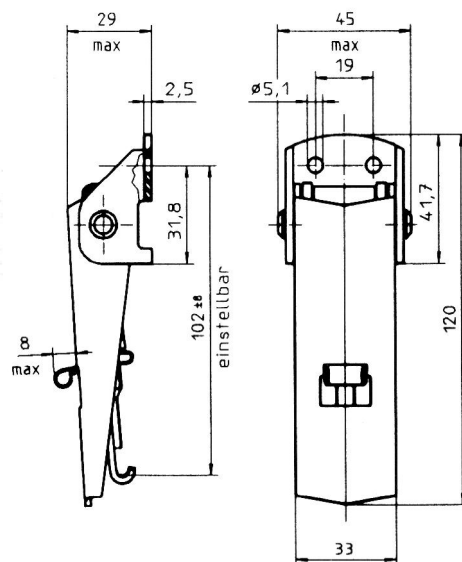
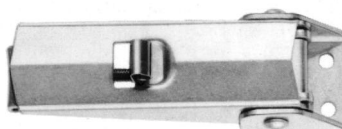
Tensile load max. 6000 N  
Operating load up to 4200 N



| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V18L01-1-   | 1AA         | 1BF             | 5,1              |
| V18L01-1-   | -           | 2BF             | without bore     |

## Art.no. V18L01 (drilled) with secondary lock

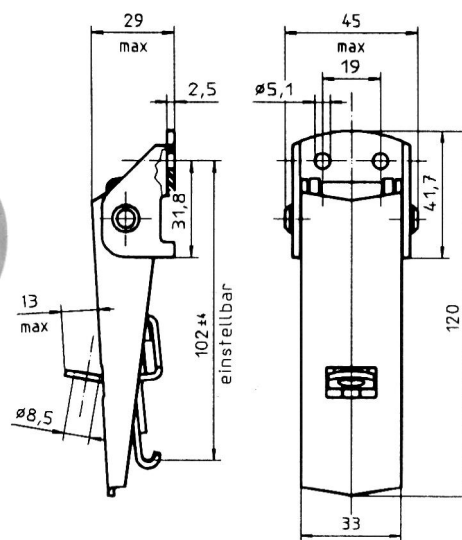
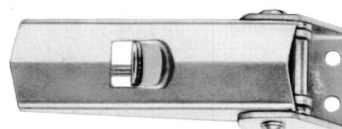
Tensile load max.. 6000 N  
Operating load up to 4200 N



| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V18L01-1X   | 1AA         | 1BF             | 5,1              |
| V18L01-1X   | -           | 2BF             | without bore     |

## Art.no. V18L01 (drilled) with hasp

Tensile load max.. 6000 N  
Operating load up to 4200 N



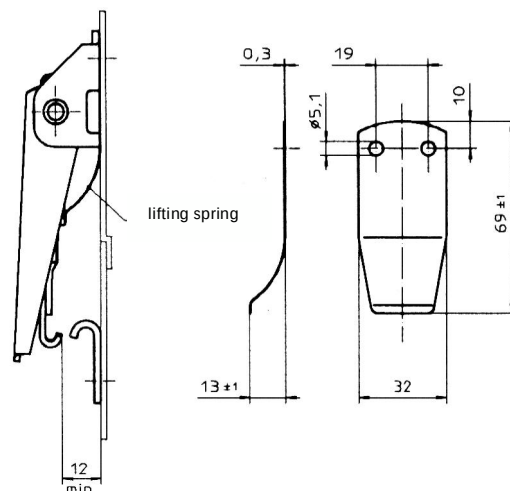
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| V18L01-1Y   | 1AA         |

# Adjustable latches

## Accessories

Art.no.V18L45

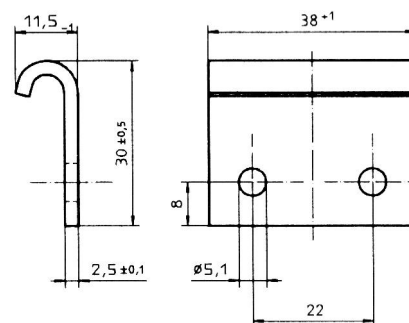
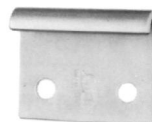
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| V18L45-     | 1BP             |



Suitable strike of Series **V18L01**

Zinc plated      Stainless steel

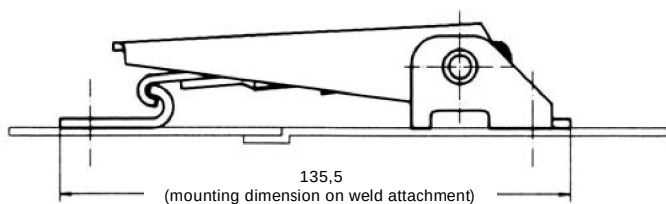
Tensile load max.      6000 N      4600 N  
Operating load      4200 N      3100 N



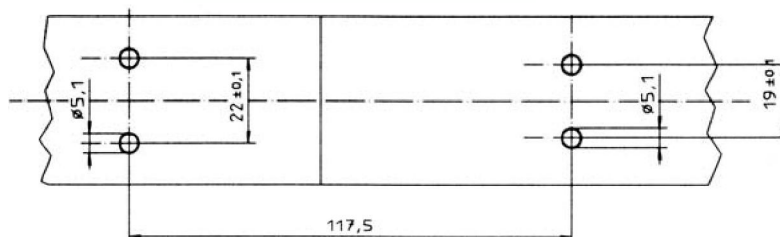
| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | D                |
|             | Zinc plated | Raw             |                  |
|             | Steel       | Stainless steel |                  |
| V18L13-1-   | 1AA         | 1BF             | 5,1              |
| V18L13-1-   | -           | 2BF             | without bore     |

Tension latch/ open strike

V18L01-



V18L13-

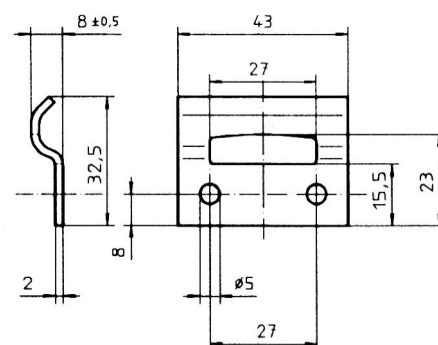


# Adjustable latches

## Suitable strike of Series V18L01

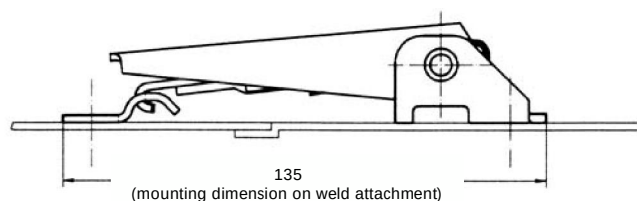
Tensile load max.. 4600 N  
Operating load 3100 N

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 1449L07-    | 1BP             |

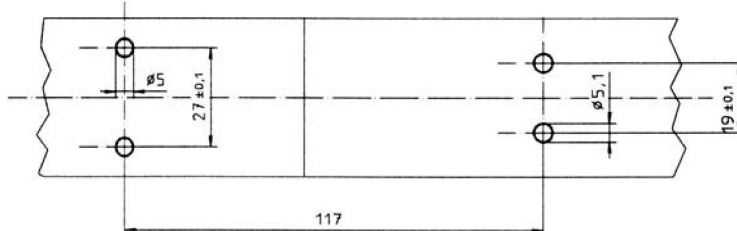


## Tension latch/ closed strike

V18L01-

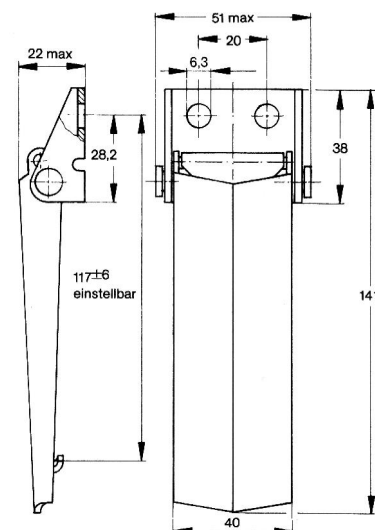
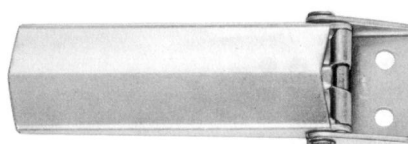


1449L07-



## Art.no. V46L38 (drilled)

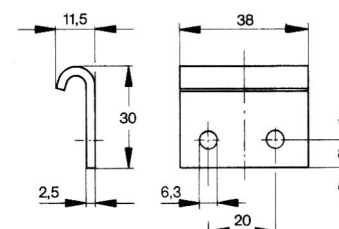
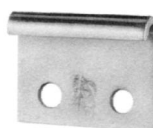
Tensile load max.. 4400 N  
Operating load up to 3000 N



| Article no. |                    | Dimensions in mm |
|-------------|--------------------|------------------|
| Series      | Material           | D                |
|             | Zinc plated yellow |                  |
|             | Steel              |                  |
| V46L38-1-   | 6AA                | 6,3              |
| V46L38-1-   | 1AA                | without bore     |

## Suitable strike of Series V46L38

| Article no. |                    |
|-------------|--------------------|
| Series      | Material           |
|             | Zinc plated yellow |
|             | Steel              |
| V18L13-1-   | 1AC                |





## Latches with sheet metal bracket



Art.: 1020



Art.: 1026



Art.: 2005



Art.: 2006



Art.: 2030



Art.: 2031



Art.: 6606



Art.: 1036



Art.: 6208



Art.: 6236

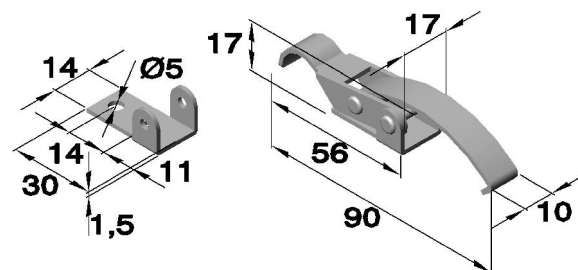
## Latches with sheet metal bracket

Art. no.: 1020 (drilled)

Permitted tractive force: 500N  
Breaking strength: 900N

Suitable clamps: see chapter „B“

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1020        | .00/6    | .01/6         | .04/6       | .30/6           |

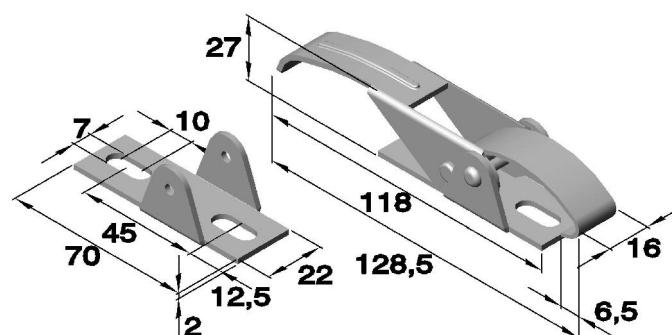


Art. no.: 1026 (drilled)

Permitted tractive force: 750 N  
Breaking strength: 1500 N

Suitable clamps: see chapter „B“

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1026        | .04/6       |



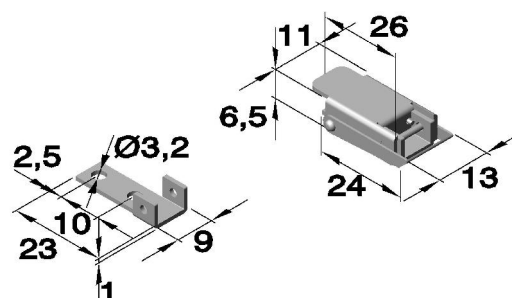
Art. no.: 1036 (drilled, with spring)

Permitted tractive force: 150 N  
Breaking strength: 300 N

Suitable clamps: see chapter „B“

Art. no.: 1036.\_\_/5

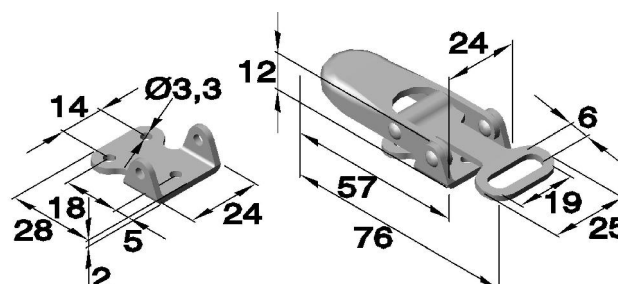
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1036        | .04/6       |



Art. no.: 2005 (drilled)

Suitable clamps: see chapter „B“

| Article no. |          |             |
|-------------|----------|-------------|
| Series      | Material |             |
|             | Raw      | Zinc plated |
|             | Steel    | Steel       |
| 2005        | .00      | .04         |



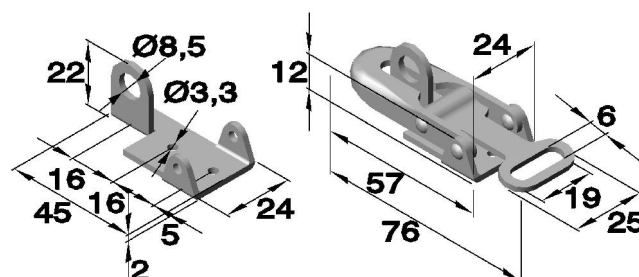


## Latches with sheet metal bracket

Art. no.: 2006 (drilled)

Suitable clamps: see chapter „B“

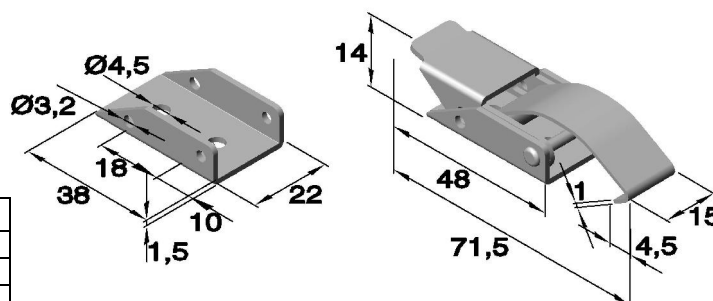
| Article no. |          |             |
|-------------|----------|-------------|
| Series      | Material |             |
|             | Raw      | Zinc plated |
|             | Steel    | Steel       |
| 2006        | .00      | .04         |



Art. no.: 2030 (drilled)

Suitable clamps: see chapter „B“

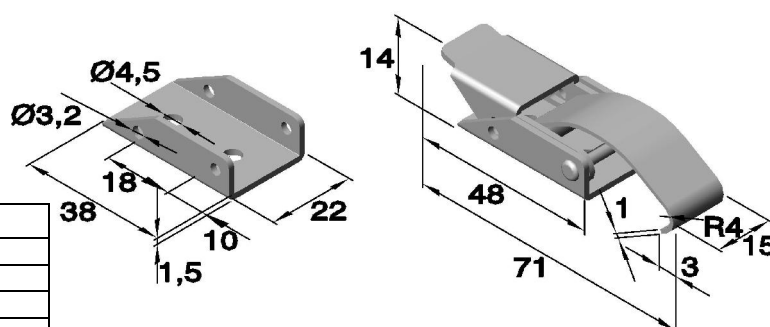
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 2030        | .04         | .30             |



Art. no.: 2031 (drilled)

Suitable clamps: see chapter „B“

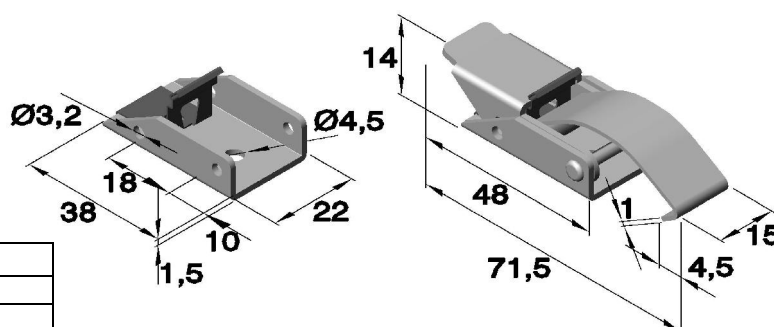
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 2031        | .04         | .30             |



Art. no.: 2035/1 (drilled)  
with safety spring

Suitable clamps: see chapter „B“

| Article no. |          |                 |
|-------------|----------|-----------------|
| Series      | Material |                 |
|             | Raw      | Stainless steel |
| 2035/1      | .30      |                 |

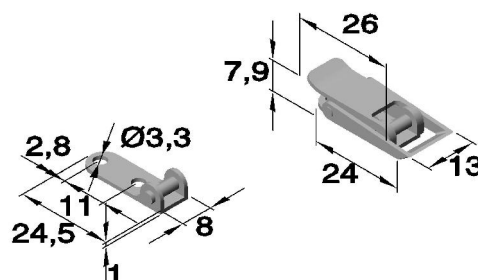


## Latches with sheet metal bracket

Art. no.: 6208.02 (drilled)  
with spring clamp

Suitable clamps: see chapter „B“  
Art. no.: 6379.01.30

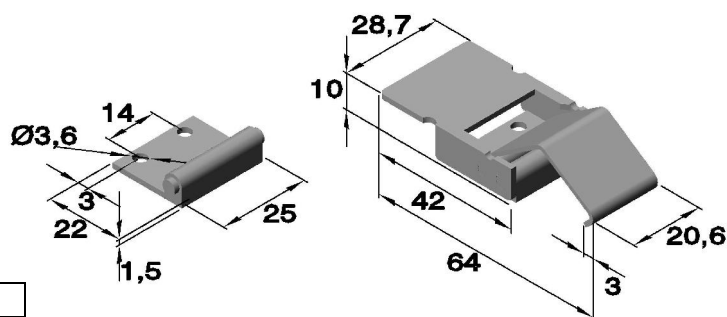
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 6208        | .02.30          |



Art. no.: 6236 (drilled)

Suitable clamps: see chapter „B“

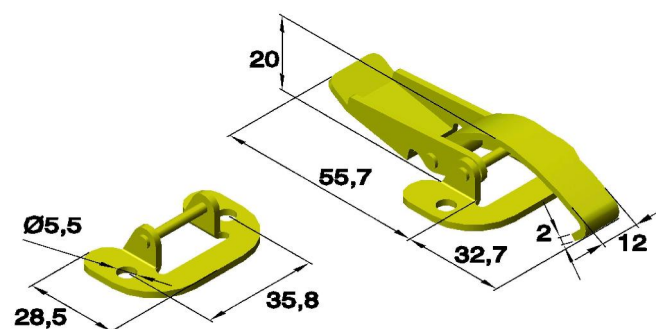
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6236        | .01.04      | .02.30          |



Art.no. 6606(drilled)

Suitable clamps: see chapter „B“

| Article no. |                  |
|-------------|------------------|
| Series      | Material         |
|             | Zinc plated      |
|             | Yellow chromated |
| 6606        | .08              |

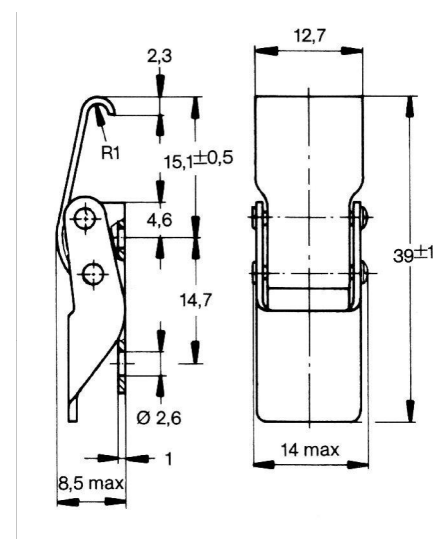
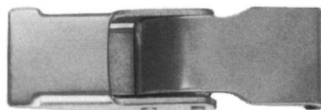


# Latches

## with sheet metal bracket

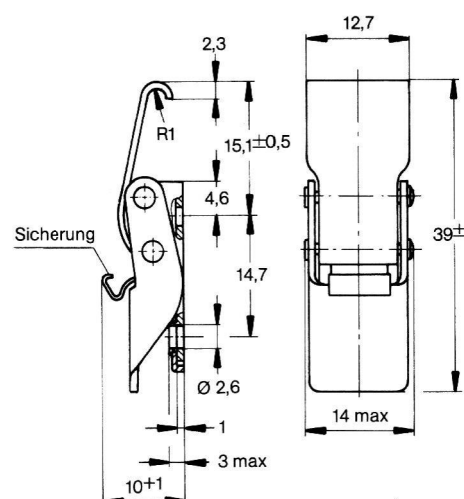
### Art.no. V934L (drilled)

Tensile load max. 550 N  
Operating load 310 N



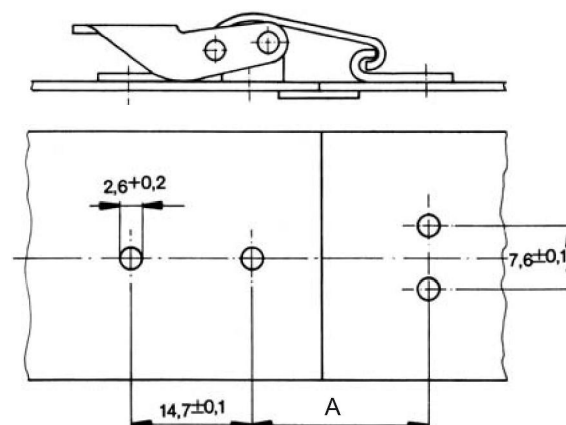
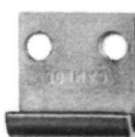
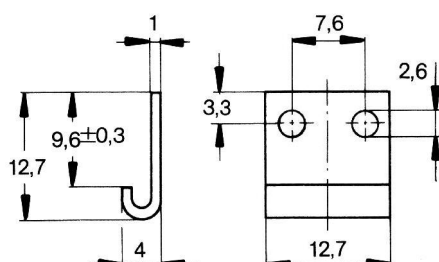
### Art.no. V934L (drilled)

Tensile load max. 550 N  
Operating load 310 N



### Suitable clamps

| Article no. |                 |             |
|-------------|-----------------|-------------|
| Series      | Material        |             |
|             | Raw             | Zinc plated |
|             | Stainless Steel | Steel       |
| V934L02-1   | BP              | AGV         |



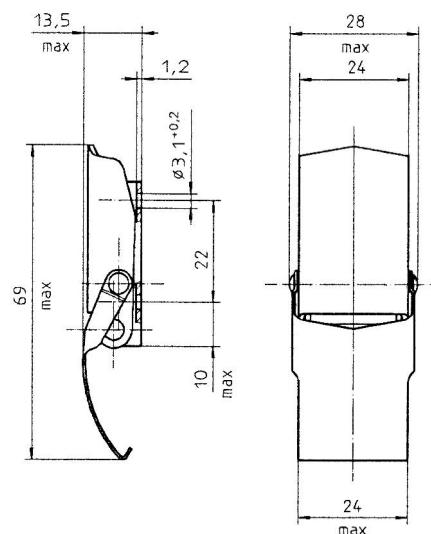
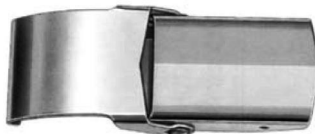
A = min. 23,7mm; Observed tolerance compensation/ preload when you install.

# Latches

with sheet metal bracket

## Art.no. 1429L (drilled)

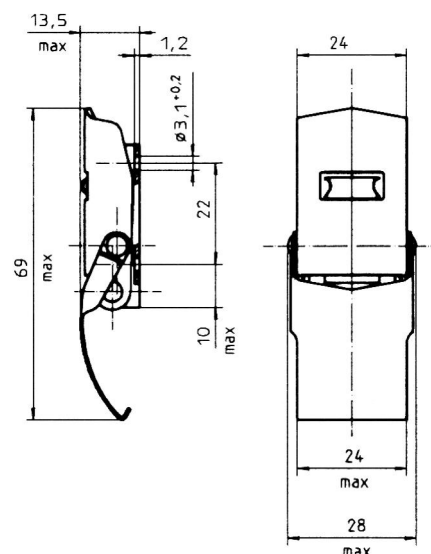
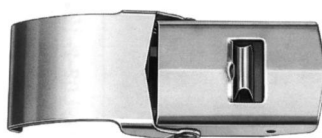
|                   |       |       |
|-------------------|-------|-------|
| Clamps            | 1AG   | 1BP   |
| Tensile load max. | 450 N | 300 N |
| Operating load    | 330 N | 210 N |



| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless Steel |
| 1429L02-1-1 | AG          | BP              |

## Art.Nr. 1429L (drilled)

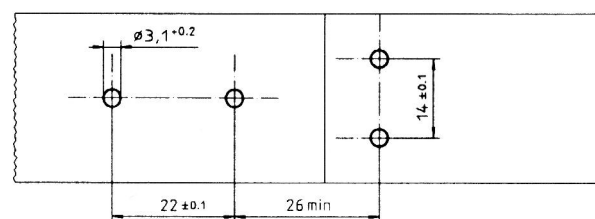
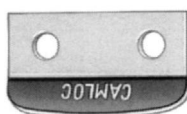
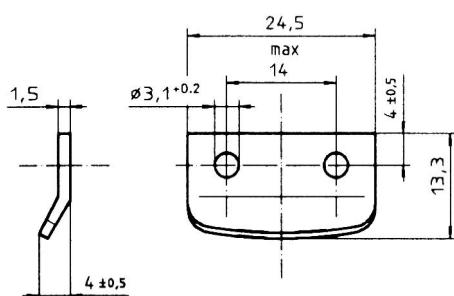
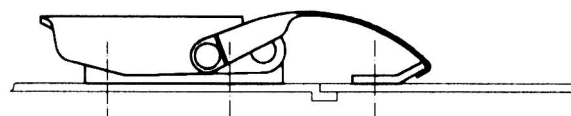
|                   |       |       |
|-------------------|-------|-------|
| Clamps            | 1AG   | 1BP   |
| Tensile load max. | 450 N | 300 N |
| Operating load    | 330 N | 210 N |



| Article no.  |             |                 |
|--------------|-------------|-----------------|
| Series       | Material    |                 |
|              | Zinc plated | Raw             |
|              | Steel       | Stainless Steel |
| 1429L02-1X-1 | AG          | BP              |

## Suitable clamps

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1429L8-1    | AG          | BP              |

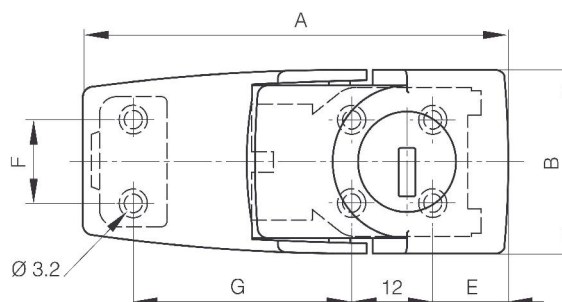
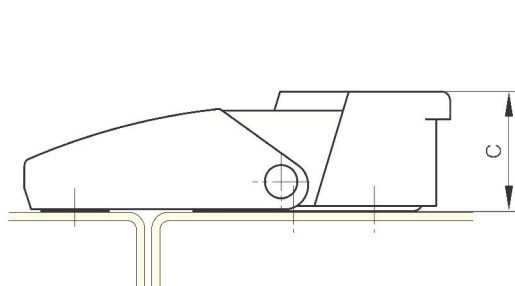


## Latches with sheet metal bracket

Art.no.:6344

Strike plate included.

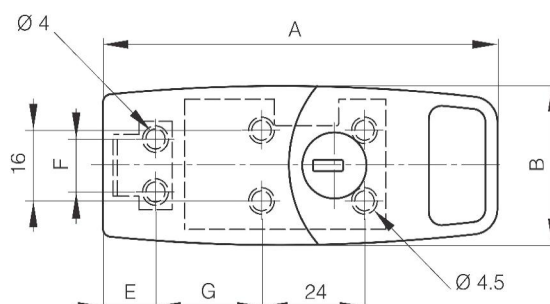
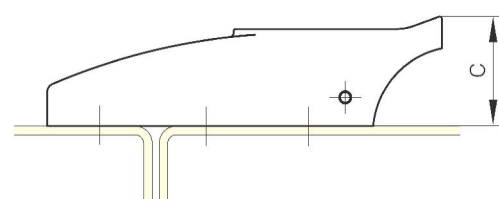
| Article no. |       |              |              | Dimension in mm |      |      |      |    |      |
|-------------|-------|--------------|--------------|-----------------|------|------|------|----|------|
| Series      | Model | Material     |              | A               | B    | C    | E    | F  | G    |
|             |       | Black coated |              |                 |      |      |      |    |      |
|             |       | Zamak        |              |                 |      |      |      |    |      |
| 6344        | .01   | .50          | with lock    | 64,5            | 26,5 | 17,3 | 13   | 12 | 30   |
| 6344        | .02   | .50          | without lock | 64,5            | 26,5 | 17,3 | 13   | 12 | 30   |
| 6344        | .03   | .50          | with lock    | 76              | 32   | 21   | 16,8 | 16 | 35,5 |
| 6344        | .04   | .50          | without lock | 76              | 32   | 21   | 16,8 | 16 | 35,5 |



Art.no.:6332

Strike plate included.

| Article no. |              | Dimension in mm |    |    |    |    |       |
|-------------|--------------|-----------------|----|----|----|----|-------|
| Series      | Material     | A               | B  | C  | E  | F  | G     |
|             | Black coated |                 |    |    |    |    |       |
|             | Zamak        |                 |    |    |    |    |       |
| 6332        | .50          | 92              | 36 | 25 | 12 | 12 | 28-32 |





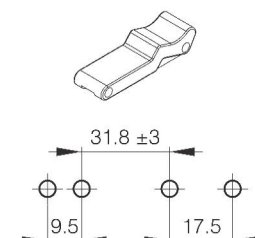
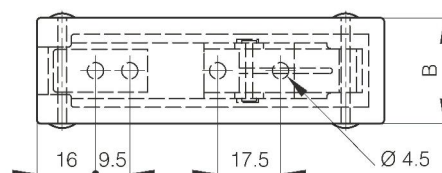
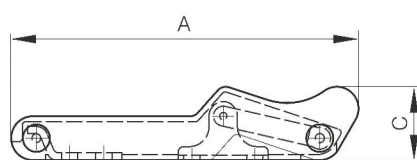
## Latches with sheet metal bracket

Art.no.:6345

Strike plate included.



| Article no. |      |                    | Dimension in mm |    |    |
|-------------|------|--------------------|-----------------|----|----|
| Series      | Type | Material           | A               | B  | C  |
|             |      | Black              |                 |    |    |
|             |      | Elastomer (Rubber) |                 |    |    |
| 6345        | .01  | .80                | 96,5            | 29 | 20 |

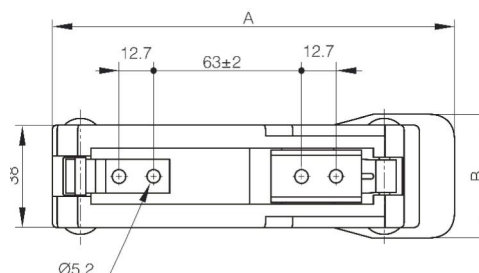
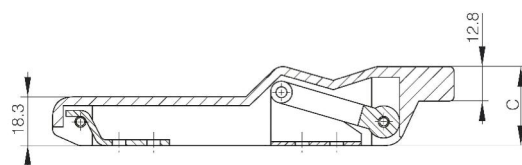
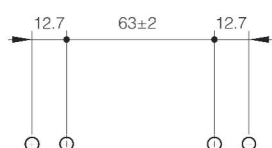


Art.no.:6345

Strike plate included.

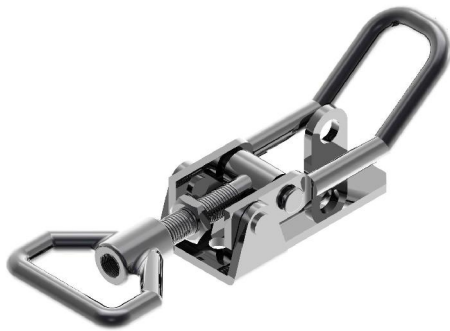


| Article no. |      |                    | Dimension in mm |      |      |
|-------------|------|--------------------|-----------------|------|------|
| Series      | Type | Material           | A               | B    | C    |
|             |      | Black              |                 |      |      |
|             |      | Elastomer (Rubber) |                 |      |      |
| 6345        | .02  | .80                | 151             | 45,7 | 29,5 |

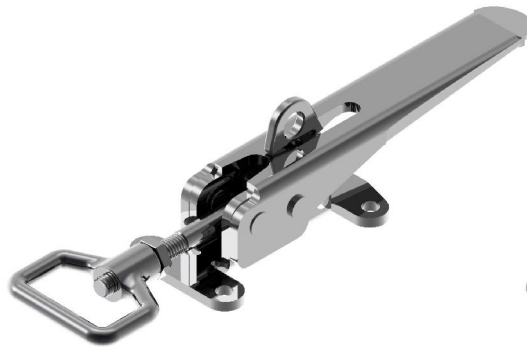




## Heavy latches



Art.:2001



Art.:2003



Art.:2004



Art.:3125



Art.:3320



Art.:3520

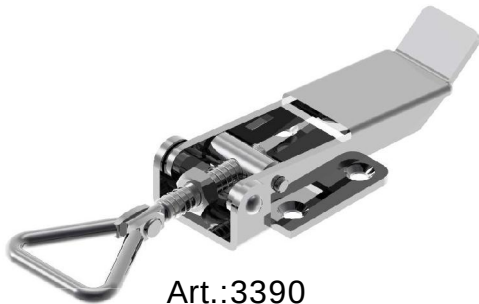


Art.:3157



Art.: 6266

## Heavy latches



Art.:3390



Art.:3475



Art.:3470-90°



Art.:3471-90°



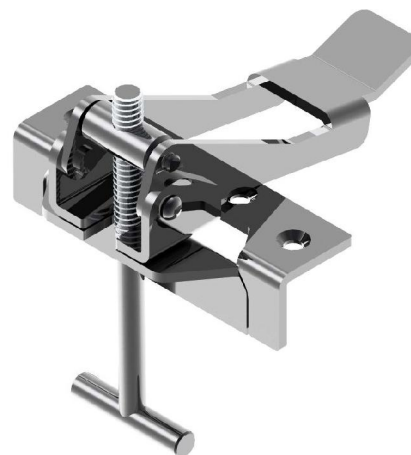
Art.:3472-90°



Art.:3480-90°



Art.:99.V18L01-Z-1BP

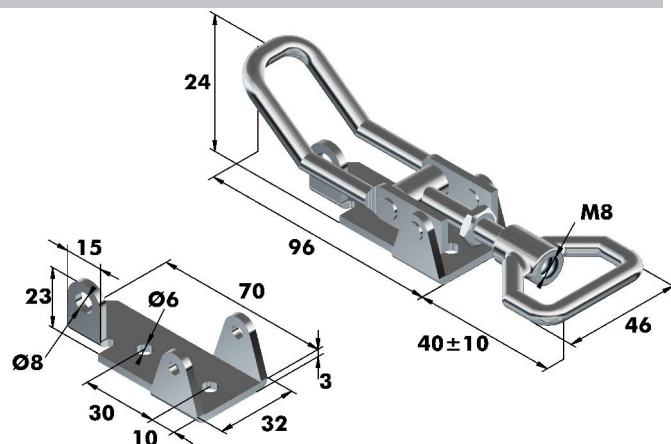


Art.:99.3475.30-V2

## Heavy latches

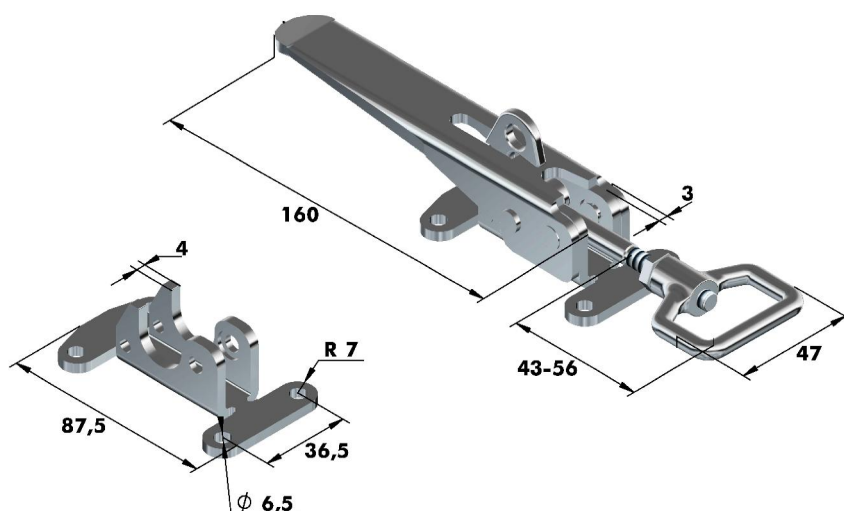
Art. no.: 2001 (perforated)  
with secondary loop lock  
adjustable

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 2001        | .04         |



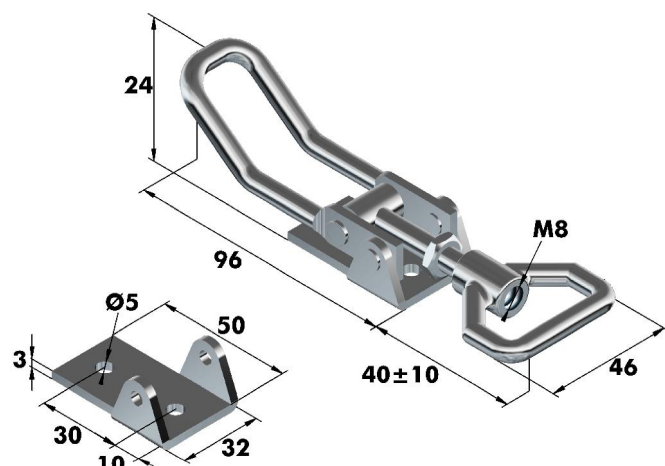
Art. no.: 2003 (perforated)  
with spring protection  
adjustable

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 2003        | .04         |



Art.Nr. 2004 (perforated)  
adjustable

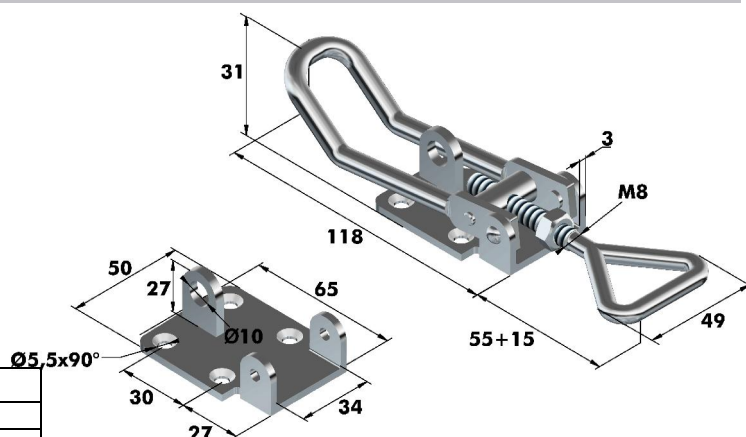
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 2004        | .04         |



## Heavy latches

Art. no.: 3125 (perforated and countersunk)  
with secondary loop lock  
adjustable

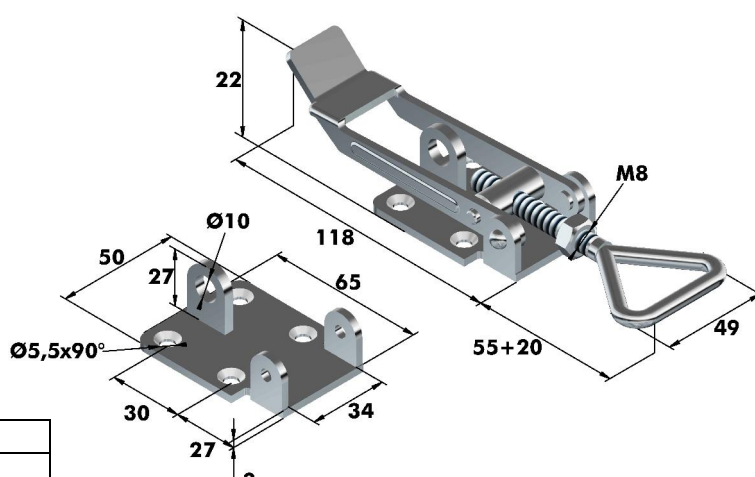
Maximum load: ca. 5000 N



| Article no. |                      |
|-------------|----------------------|
| Series      | Material             |
|             | Zinc plated<br>Steel |
| 3125        | .04                  |

Art. no.: 3320 (perforated and countersunk)  
with secondary loop lock  
adjustable

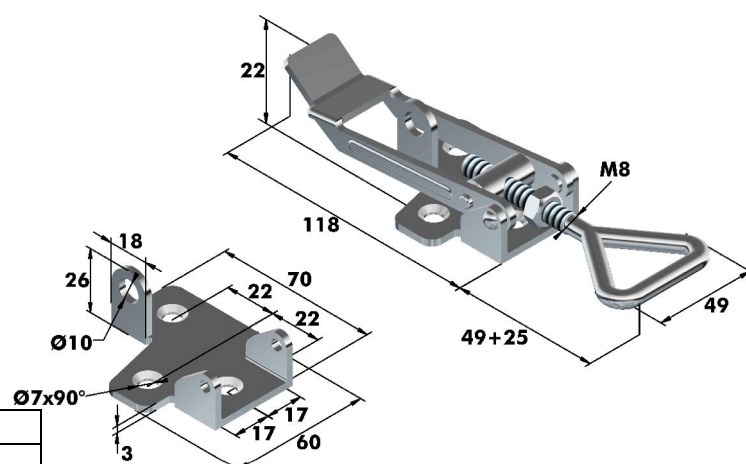
Maximum load: ca. 5000 N



| Article no. |                      |                             |
|-------------|----------------------|-----------------------------|
| Series      | Material             |                             |
|             | Zinc plated<br>Steel | Polished<br>Stainless steel |
| 3320        | .04                  | .33                         |

Art. no.: 3520 (perforated and countersunk)  
with secondary loop lock  
adjustable

Maximum load: ca. 5000 N

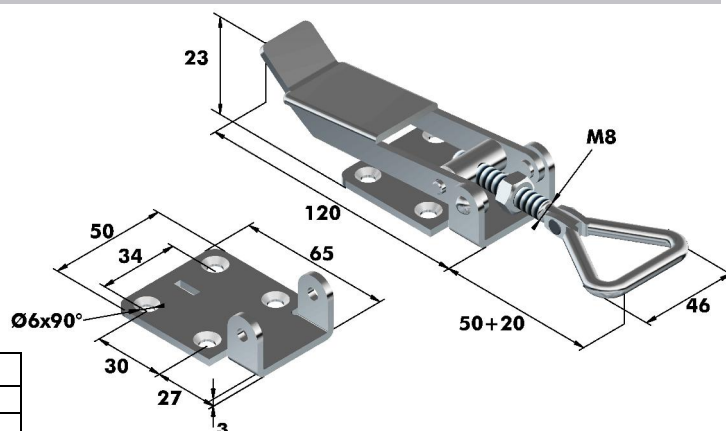


| Article no. |                      |                             |
|-------------|----------------------|-----------------------------|
| Series      | Material             |                             |
|             | Zinc plated<br>Steel | Polished<br>Stainless steel |
| 3520        | .04                  | .33                         |



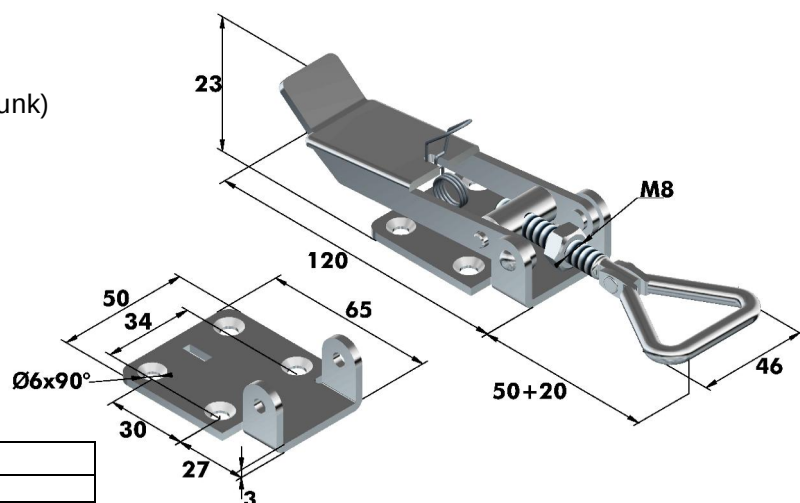
## Heavy latches

Art. no.: 3390 (perforated and countersunk)  
adjustable



| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
| 3390        | Stainless steel |
|             | .30             |

Art. no.: 3475 (perforated and countersunk)  
with spring protection  
adjustable

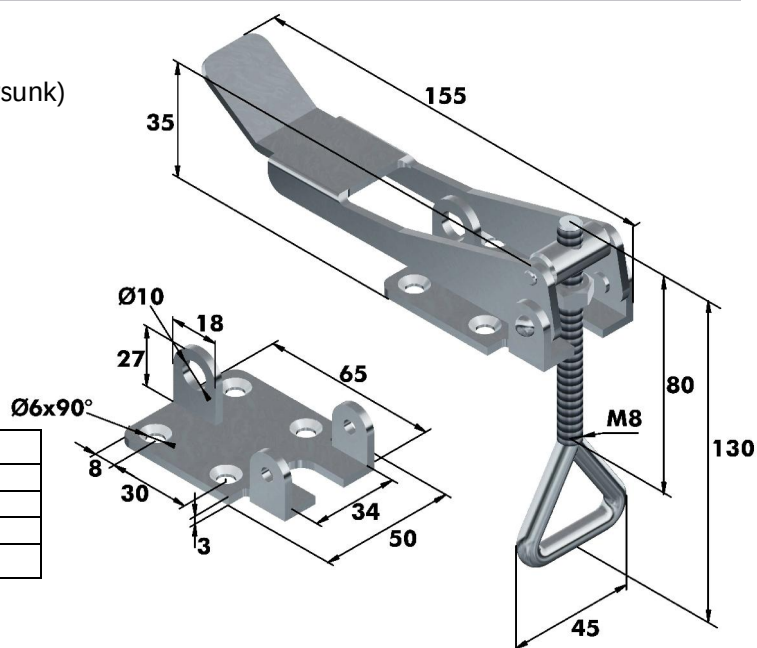


| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
| 3475        | Stainless steel |
|             | .30             |

## Heavy latches

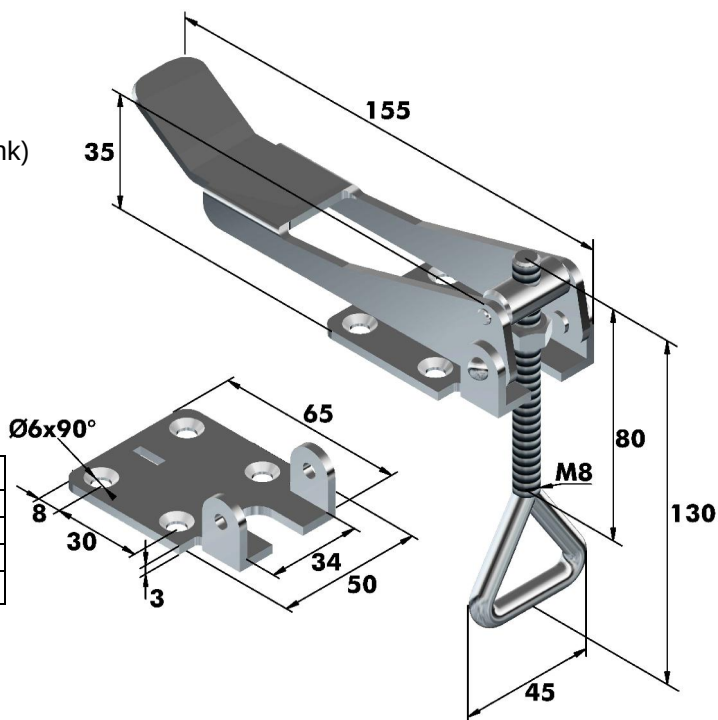
Art. no.: 3470-90° (perforated and countersunk)  
with secondary loop lock  
adjustable

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3470        | .04         | .30             |



Art. no.: 3471-90° (perforated and countersunk)  
adjustable

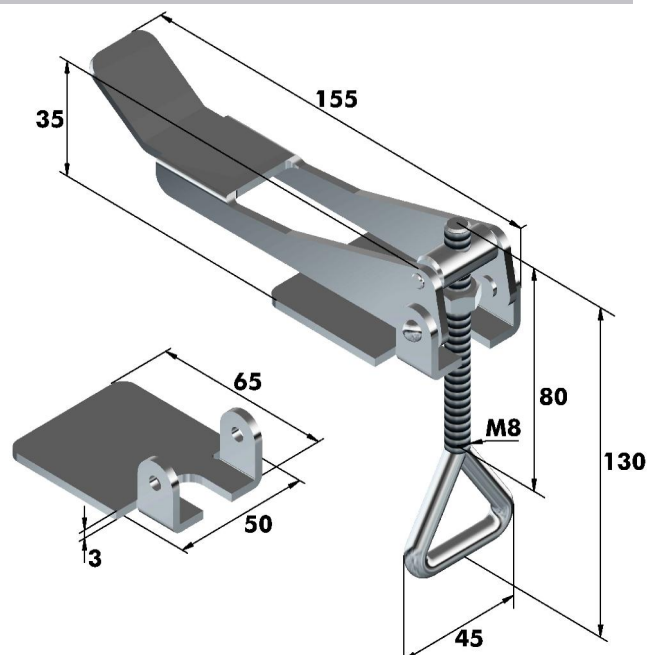
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3471        | .04         | .30             |



## Heavy latches

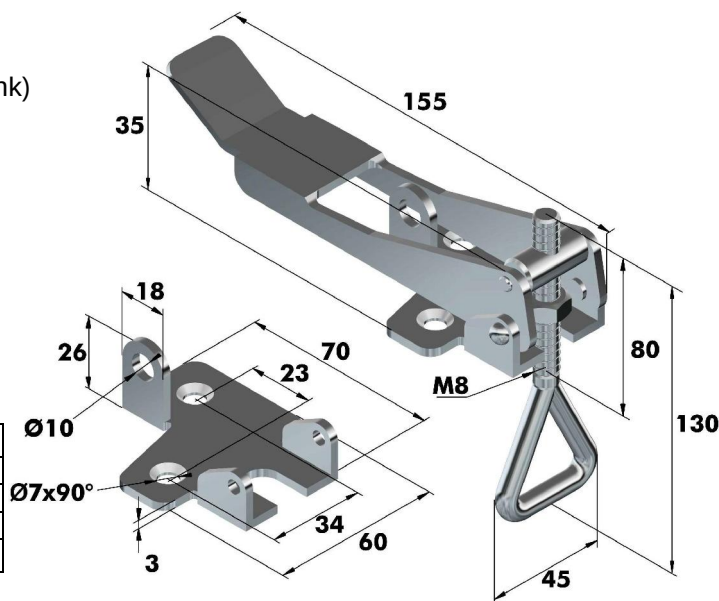
Art. no.: 3472-90°  
adjustable

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
| 3472        | Steel       | Stainless steel |
|             | .04         | .30             |



Art. no.: 3480-90° (perforated and countersunk)  
with secondary loop lock  
adjustable

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
| 3480        | Steel       | Stainless steel |
|             | .04         | .30             |



## Heavy latches

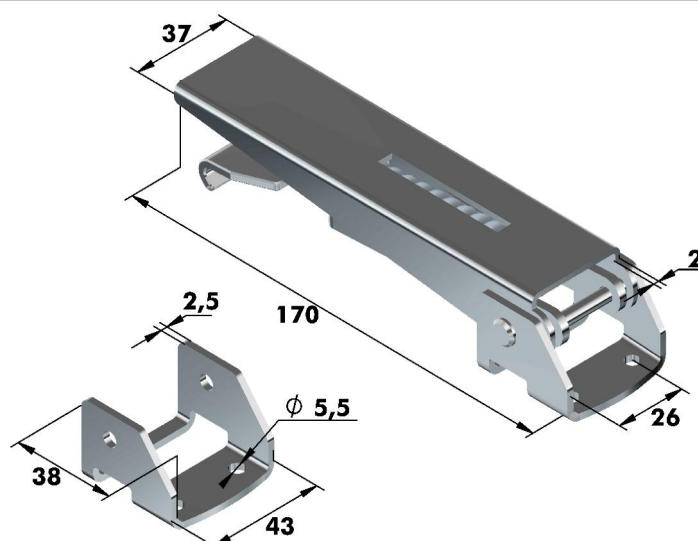
Art.no. 99.V18L01-Z-1BP (perforated)

with adjustable hook  
and adjustable spring force

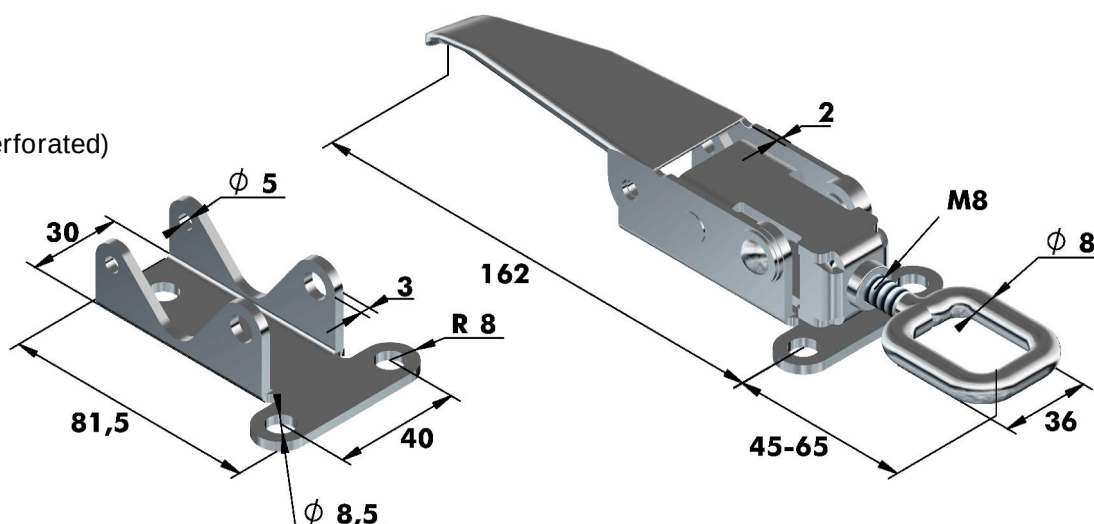
Figure shows an example

Possible design on request.

| Article no.     |                 |
|-----------------|-----------------|
| Series          | Material        |
|                 | Raw             |
| 99.V18L01-Z-1BP | Stainless steel |
|                 | .30             |



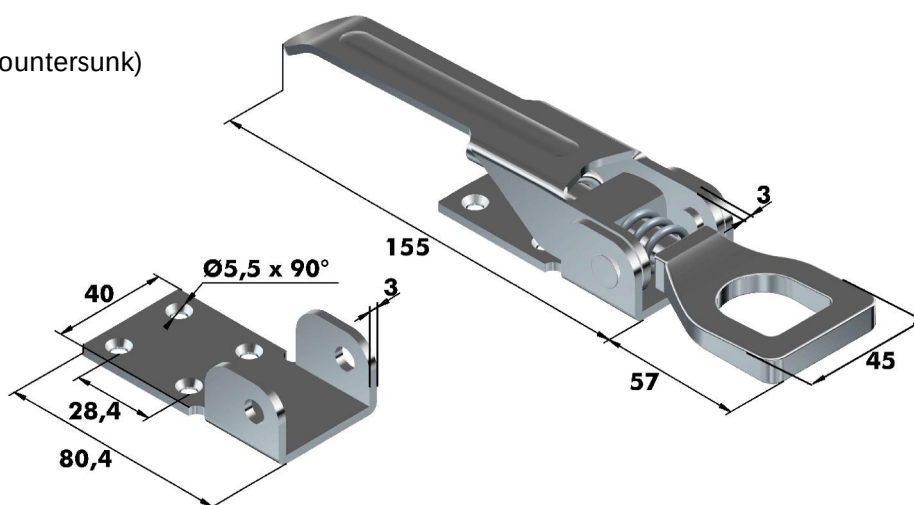
Art.no. 3157 (perforated)  
adjustable



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
| 3157        | Steel       |
|             | .04         |

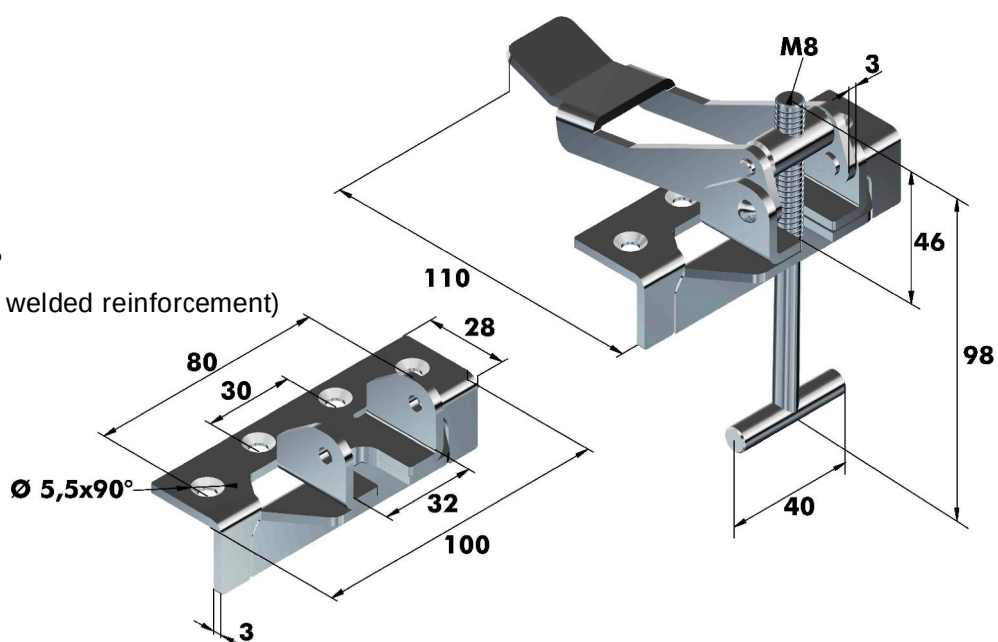
## Heavy latches

Art.no.6266 (perforated and countersunk)  
adjustable  
with spring

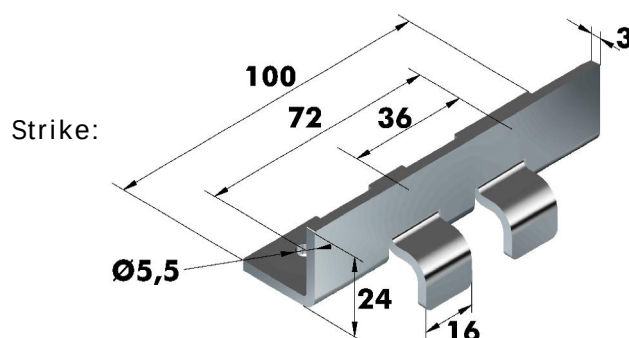


| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 6266        | .04         |

Art.no. 99.3475-90°  
(perforated, countersunk with welded reinforcement)  
adjustable  
with suitable strike  
  
for heavy loads



| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 99.3475     | .30             |





## Heavy latches

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Email:  
Homepage:

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+49 (0) 231 / 725 790 -10  
[info@hokon-verschlusstechnik.de](mailto:info@hokon-verschlusstechnik.de)  
[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)



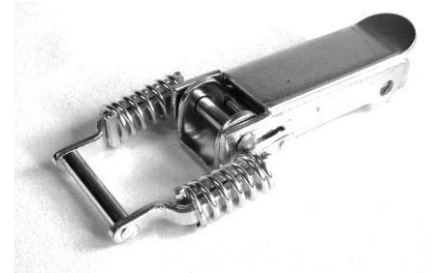
## Spring latches



Art.: 1034



Art.: 6602



Art.: 6243



Art.: 1036



Art.: 6208



Art.: 3020



Art.: 6200



Art.: 6201



Art.: 6203



Art.: 95L



Art.: V96L

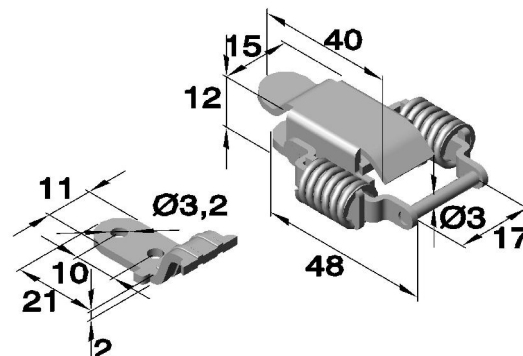
## Spring latches

**Art. no.: 1034** (drilled)  
with spring brackets

Permitted tractive force: 500 N  
Breaking strength: 1500 N

Suitable strikes: see chapter „B“  
Art. no.: 1034.\_\_/5

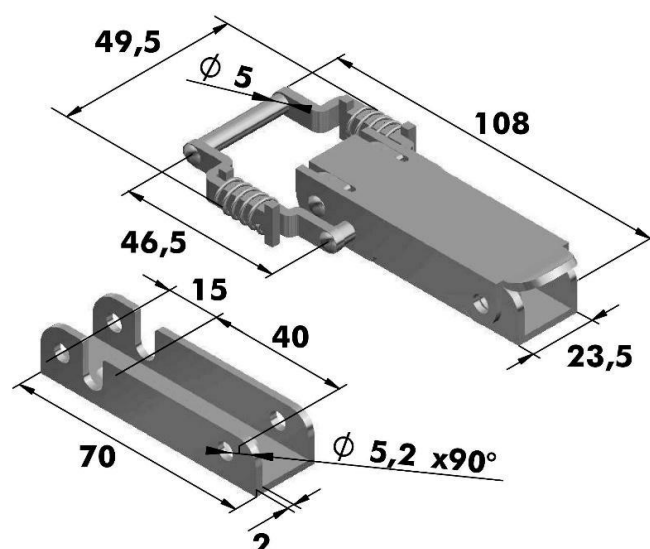
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1034        | .04/6       | .30/6           |



**Art.no. 6243** (perforated)  
with spring brackets and secondary loop lock

Suitable strikes: see chapter „B“  
Art.no. 6373.02.04  
Art.no. 6377.01.04

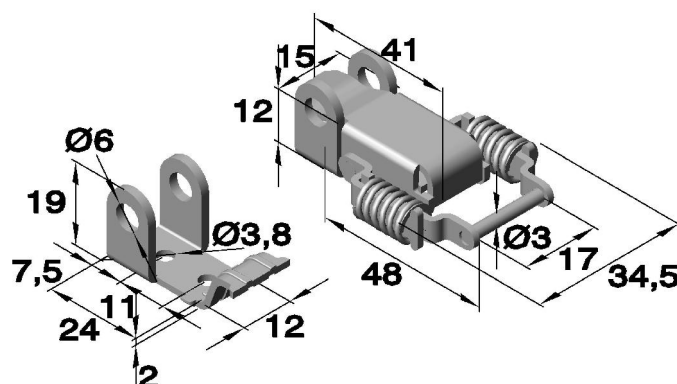
| Article no. |          |             |
|-------------|----------|-------------|
| Series      | Material |             |
|             | Raw      | Zinc plated |
|             | Steel    | Steel       |
| 6243.01     | .00      | -           |
| 6243.02     | -        | .04         |



**Art.no. 6255** (perforated)  
with spring brackets and secondary loop lock

Suitable strikes: see chapter „B“  
Art.no. 6605.\_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6255        | .03.04/6    | .04.30/6        |

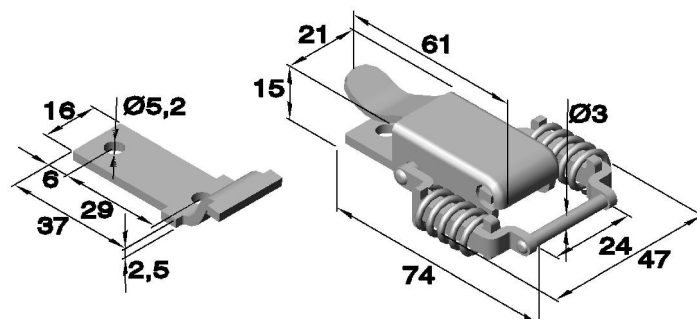


## Spring latches

Art. no.: 6602 (drilled)  
with spring brackets

Suitable Strikes: see chapter „B“  
Art. no.: 6603. \_\_

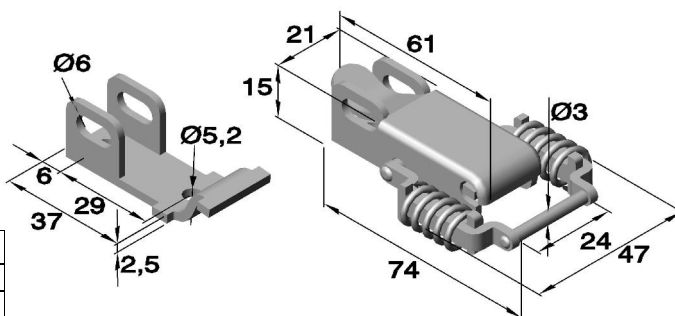
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6602        | .05.04      | .06.30          |



Art.no. 6610 (drilled)  
with spring brackets

Suitable strikes: see chapter „B“  
Art.no. 6603. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6610.05     | .04         | .30             |

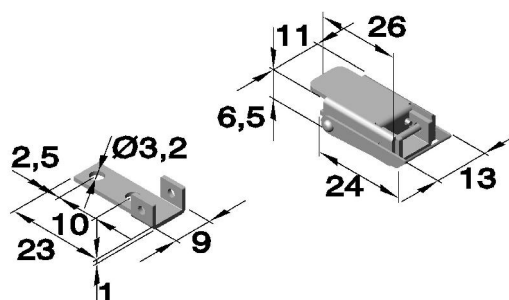


Art. no.: 1036 (drilled)  
with spring brackets

Permitted tractive force: 150 N  
Breaking strength: 300 N

Suitable strikes: see chapter „B“  
Art. no.: 1036. \_\_/5

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1036        | .04/6       |                 |

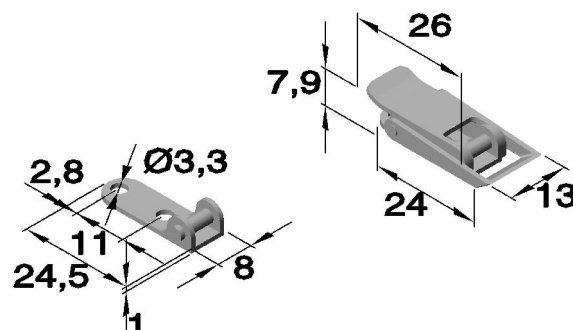


## Spring latches

**Art.no. 6208.02** (drilled)  
with spring brackets

Suitable strikes: see chapter „B“  
Art.no.6379.01.30

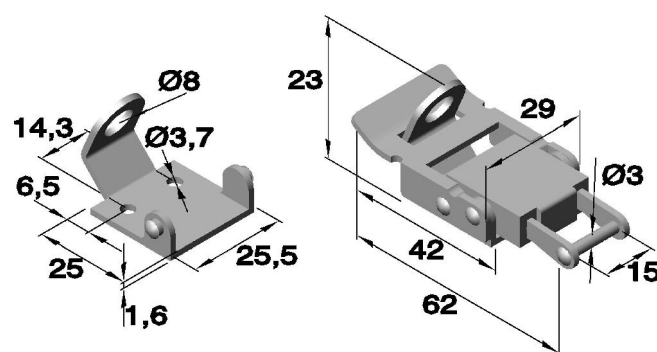
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 6208        | .02.30          |



**Art. no.: 6200.01** (drilled)  
with spring brackets and secondary loop lock

Suitable Strikes: see chapter „B“  
Art. no.: 6200.30

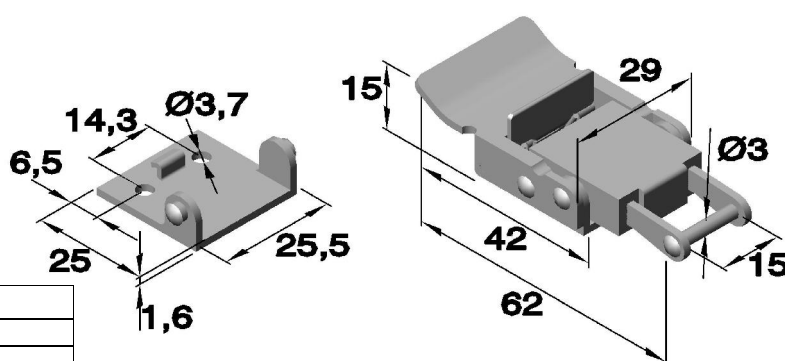
| Article no. |           |             |                 |
|-------------|-----------|-------------|-----------------|
| Series      | Execution | Material    |                 |
|             |           | Zinc plated | Raw             |
|             |           | Steel       | Stainless steel |
| 6200        | .01       | .04         | .30             |



**Art. no.: 6201.01** (drilled)  
with spring brackets and safety spring

Suitable Strikes: see chapter „B“  
Art. no.: 6200.30

| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
|             |           | Stainless steel |
| 6201        | .01       | .30             |

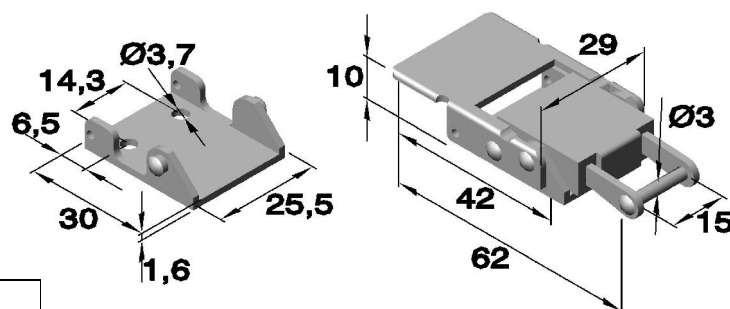




## Spring latches

Art. no.: 6203.01 (drilled)  
with spring brackets

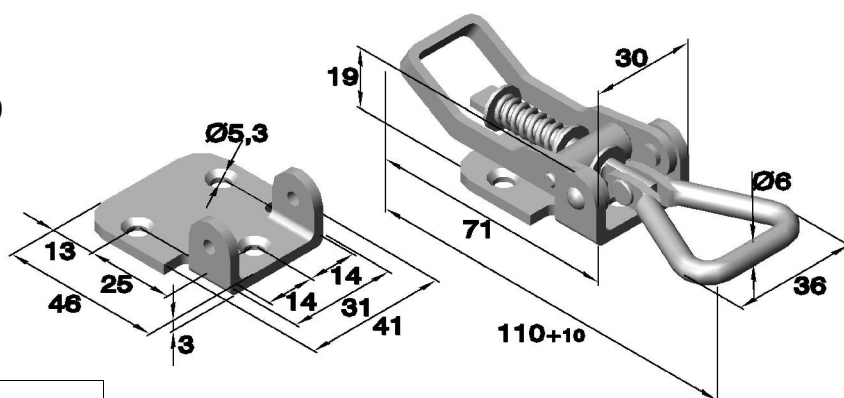
Suitable Strikes: see chapter „B“  
Art. no.: 6200.30



| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
| 6203        | .01       | Stainless steel |
|             |           | .30             |

Art. no.: 3020 (drilled and countersunk)  
with spring riveted triangle

Suitable Strikes: see chapter „B“  
Art. no.: 3608. \_\_      Art. no.: 3622. \_\_  
Art. no.: 3611. \_\_      Art. no.: 3625. \_\_  
Art. no.: 3612. \_\_



| Article no. |  |             |
|-------------|--|-------------|
| Series      |  | Material    |
|             |  | Zinc plated |
| 3020        |  | Steel       |
|             |  | .04         |

## Spring latches



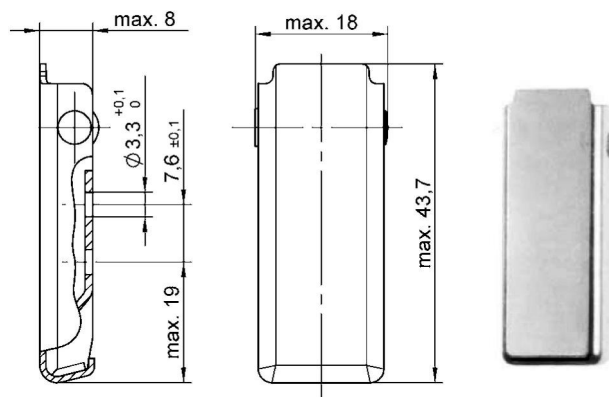
### Art. no. 95L (drilled)

Tolerance compensation per spring clip

Tensile load max. 445 N

Operating load 220 N

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| V95L07-1-1  | BC              |



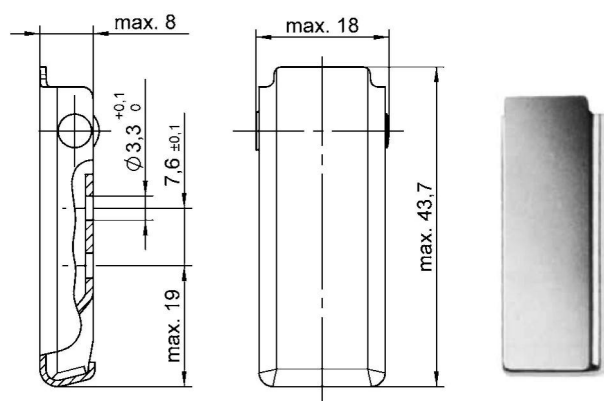
### Art.No. 95L (drilled)

Tolerance compensation per spring clip

Tensile load max. 445 N

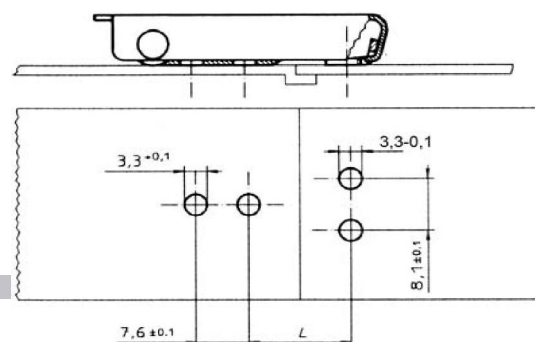
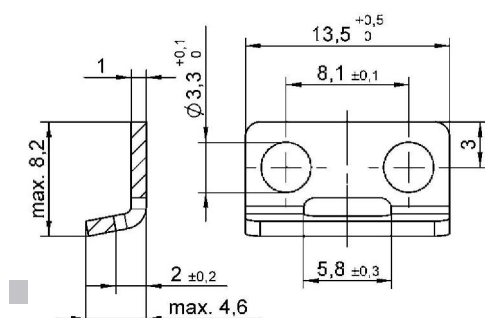
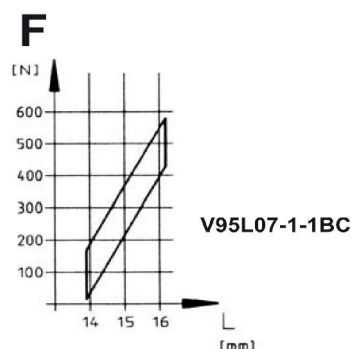
Operating load 220 N

| Article no. |               |
|-------------|---------------|
| Series      | Material      |
|             | Chrome plated |
|             | Steel         |
| V95L15-1    | BD            |



### Suitable clamp

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| V95H07-1-1  | BC              |



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[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)

## Spring latches



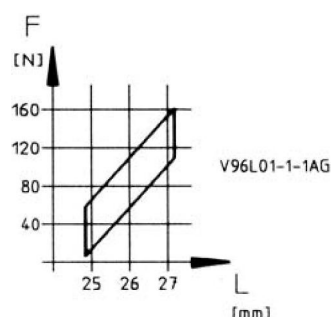
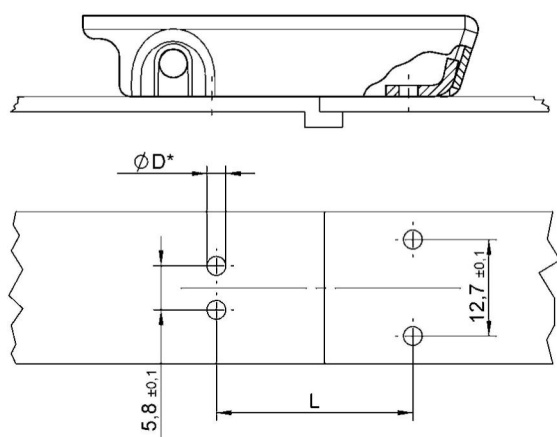
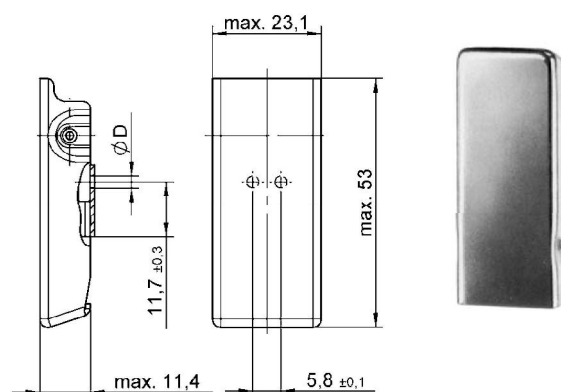
### Art.No. V96L (drilled)

Tolerance compensation per spring clip

Tensile load max. 1000 N

Operating load 650 N

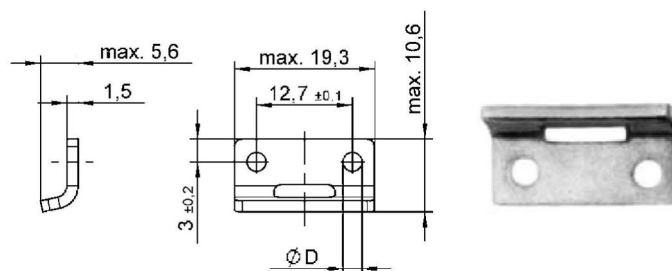
| Article no. |             |               | hole<br>Ø |
|-------------|-------------|---------------|-----------|
| Series      | Material    |               |           |
|             | Zinc plated | Chrome plated |           |
|             | Steel       | Steel         |           |
| V96L01-1-   | 1AO         | 1AG           | 2,5       |
| V96L01-1-   | 2AO         | 2AG           | 3,2       |



Hole diameter according to the selected design

### Suitable clamp

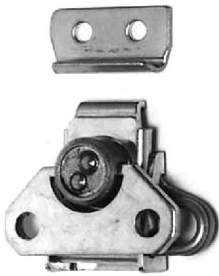
| Article no. |             | hole<br>Ø |
|-------------|-------------|-----------|
| Series      | Material    |           |
|             | Zinc plated |           |
|             | Steel       |           |
| V96H01-1-   | 1AO         | 2,5       |
| V96H01-1-   | 2AO         | 3,2       |



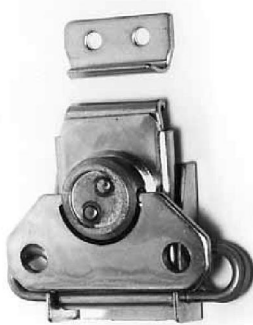




## „Butterfly“ latches



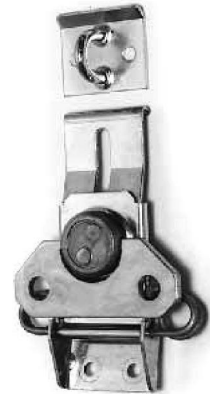
Art.:100.L0914



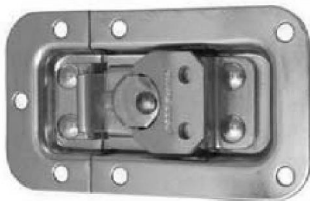
Art.:100.L0915



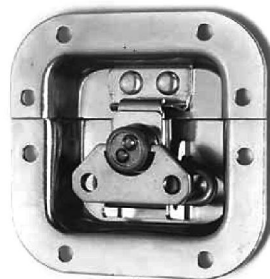
Art.:100.L0925



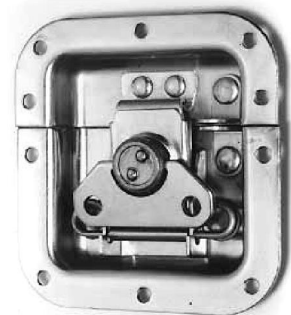
Art.:100.L0935



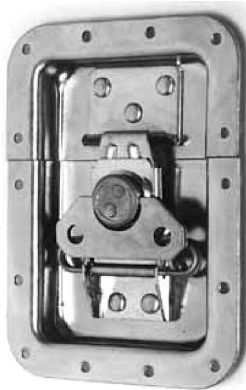
Art.:L903/7336



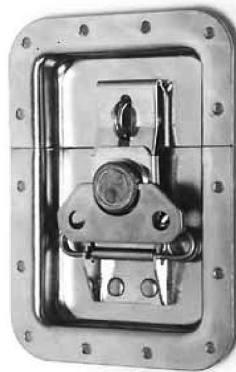
Art.:100.L904/914



Art.:100.L905/915



Art.:100.L925/530



Art.:100.L935/530



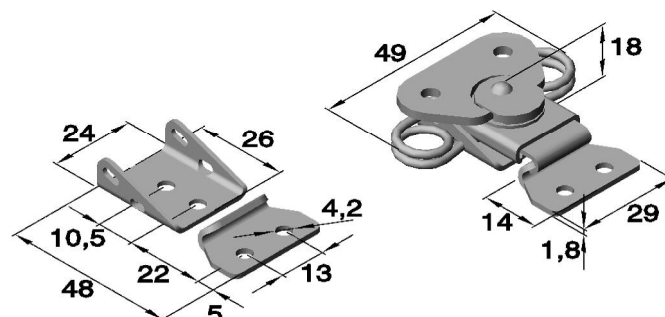
Art.:L944/2525



## latches „Butterfly“

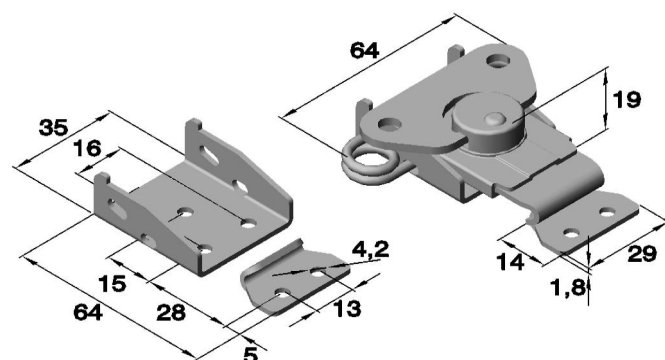
### Art.no. 100.L 0914 (drilled)

| Article no. |             |              |
|-------------|-------------|--------------|
| Series      | Material    |              |
|             | Zinc plated | Coated black |
|             | Steel       | Steel        |
| 100.L 0914  | .04         | .07          |



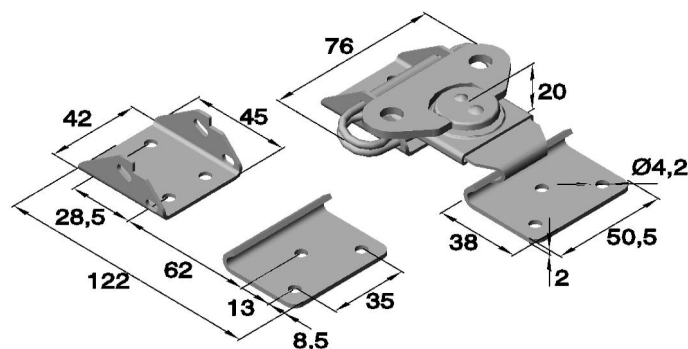
### Art.no. 100.L 0915 (drilled)

| Article no. |             |              |
|-------------|-------------|--------------|
| Series      | Material    |              |
|             | Zinc plated | Coated black |
|             | Steel       | Steel        |
| 100.L 0915  | .04         | .07          |



### Art.no. 100.L 0925 (drilled)

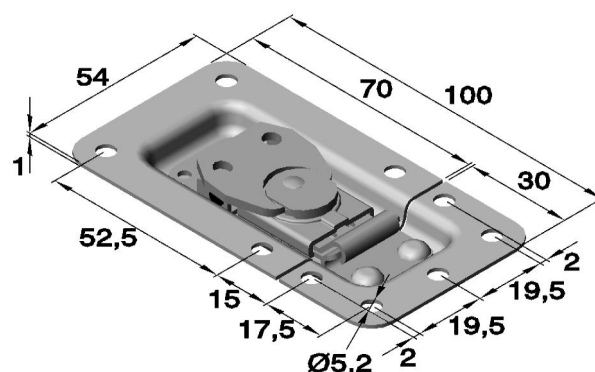
| Article no. |             |              |                 |
|-------------|-------------|--------------|-----------------|
| Series      | material    |              |                 |
|             | Zinc plated | Coated black | Polished        |
|             | Steel       | Steel        | Stainless steel |
| 100.L 0925  | .04         | .07          | .33             |



### Art.no. 100.L 903/7336 (drilled)

Installation opening: 32 x 78  
Depth: 7mm

| Article no.    |             |
|----------------|-------------|
| Series         | Material    |
|                | Zinc plated |
|                | Steel       |
| 100.L 903/7336 | z.04        |

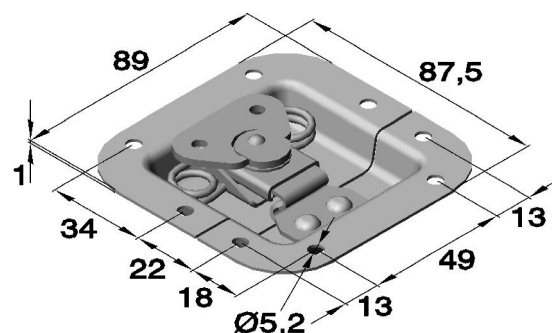


## latches „Butterfly“

### Art.no. 100.L 904/914 (drilled)

Installation opening: 65 x 64  
Depth 13mm

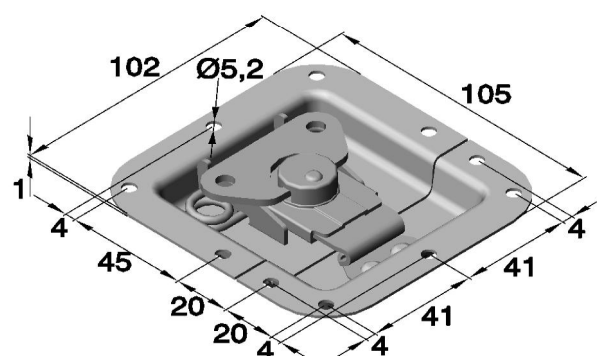
| Article no.   |             |
|---------------|-------------|
| Series        | Material    |
|               | Zinc plated |
|               | Steel       |
| 100.L 904/914 | .04         |



### Art.no. 100.L 905/915 (drilled)

Installation opening: 78 x 82  
Depth 13mm

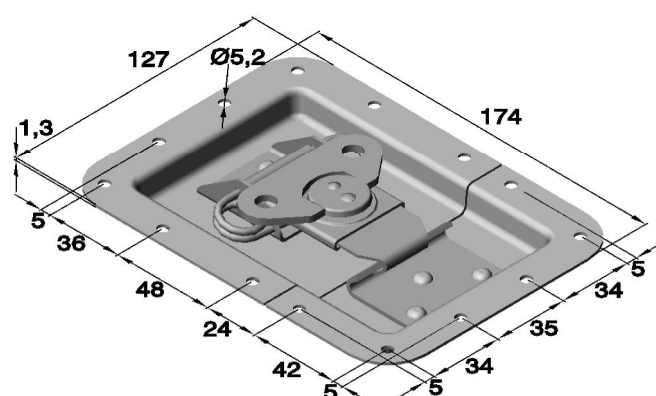
| Article no.   |             |              |                 |
|---------------|-------------|--------------|-----------------|
| Series        | Material    |              |                 |
|               | Zinc plated | Coated black | Polished        |
|               | Steel       | Steel        | Stainless steel |
| 100.L 905/915 | .04         | .07          | .33             |



### Art.no. 100.L 925/530 (drilled)

Installation opening: 96 x 145  
Depth 15,5mm

| Article no.   |             |              |
|---------------|-------------|--------------|
| Series        | Material    |              |
|               | Zinc plated | Coated black |
|               | Steel       | Steel        |
| 100.L 925/530 | .04         | .07          |

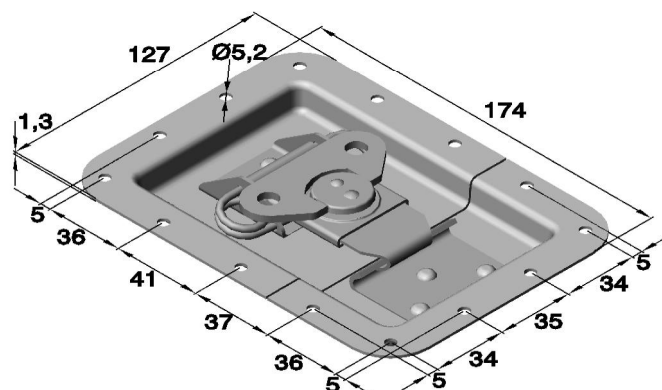


## latches „Butterfly“

### Art.no. 100.L 925/530 (drilled)

Installation opening: 96 x 145  
Depth 15,5mm

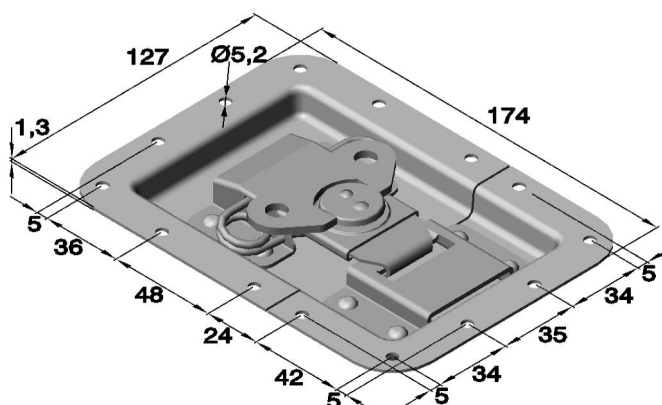
| Article no.   |                 |
|---------------|-----------------|
| Series        | Material        |
|               | Polished        |
|               | Stainless steel |
| 100.L 925/530 | .33             |



### Art.no. 100.L 944/530 (drilled)

Installation opening: 96 x 145  
Depth 15,5mm

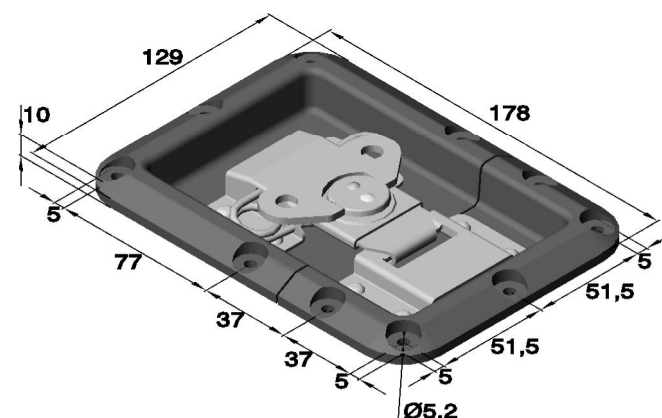
| Article no.   |             |
|---------------|-------------|
| Series        | Material    |
|               | Zinc plated |
|               | Steel       |
| 100.L 944/530 | .04         |



### Art.no. 100.L 944/2525 (drilled)

Installation opening: 94 x 143  
Depth 9mm

| Article no.    |              |
|----------------|--------------|
| Series         | Material     |
|                | Black        |
|                | ABS- plastic |
| 100.L 944/2525 | .87          |





## Strikes



# Strikes

## Art. no.: 1001 (drilled and countersunk)

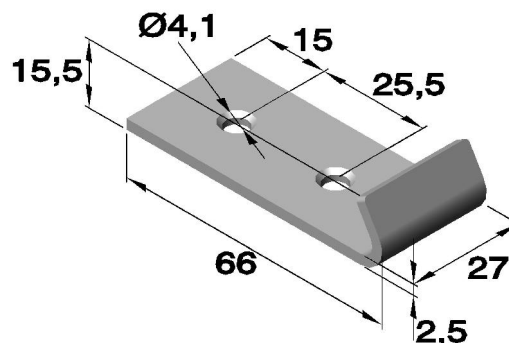
Strike for latch: see chapter „A“

Art. no.: 1001.\_\_\_/6 Art. no.: 1004.\_\_\_/6

Art. no.: 1002.\_\_\_/6 Art. no.: 1021.\_\_\_/6

Art. no.: 1003.\_\_\_/6 Art. no.: 1070.\_\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1001        | .00/5    | .01/5         | .04/5       | .30/5           |



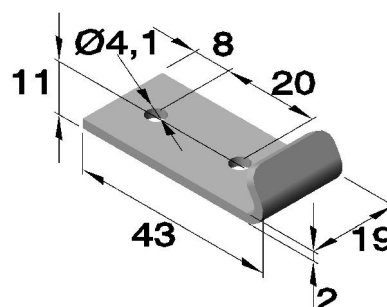
## Art. no.: 1006 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1006.\_\_\_/6

Art. no.: 1007.\_\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1006        | .00/5    | .01/5         | .04/5       | .30/5           |

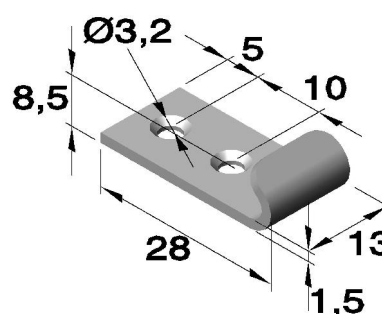


## Art. no.: 1008 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 1008.\_\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1008        | .00/5    | .01/5         | .04/5       | .30/5           |



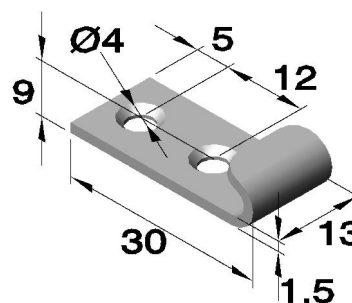
## Art. no.: 1009 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 1009.\_\_\_/6 Art. no.: 1012.\_\_\_/6

Art. no.: 1010.\_\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1009        | .00/5    | .01/5         | .04/5       | .30/5           |





# Strikes

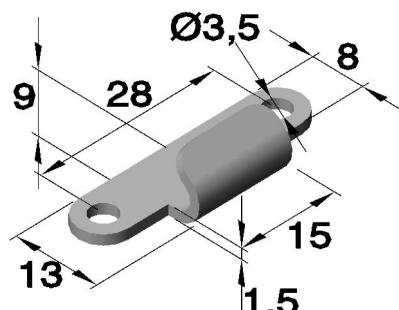
## Art. no.: 1013 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1013.\_\_/6

Art. no.: 1014.\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1013        | .00/5    | .01/5         | .04/5       | .30/5           |



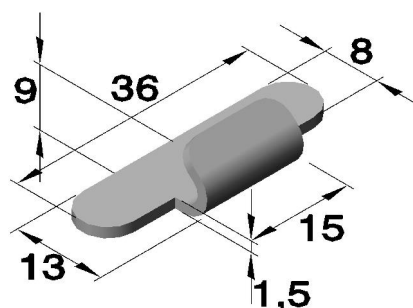
## Art. no.: 1013

Strike for latch: see chapter „A“

Art. no.: 1013.\_\_/6

Art. no.: 1014.\_\_/6

| Article no. |          |
|-------------|----------|
| Series      | Material |
|             | Raw      |
|             | Steel    |
| 1013        | .00/5-10 |



## Art. no.: 1015 (drilled)

Strike for latch: see chapter „A“

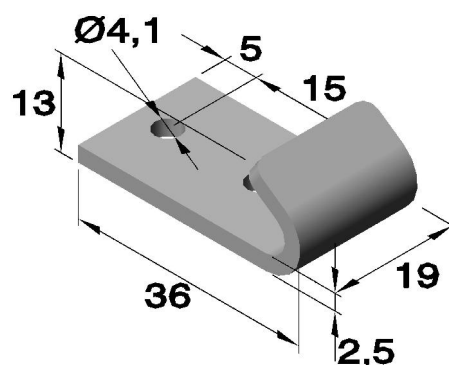
Art. no.: 1015.\_\_/6

Art. no.: 1017.\_\_/6

Art. no.: 1016.\_\_/6

Art. no.: 1018.\_\_/6

| Article no. |          |               |             |                 |
|-------------|----------|---------------|-------------|-----------------|
| Series      | Material |               |             |                 |
|             | Raw      | Nickel plated | Zinc plated | Raw             |
|             | Steel    | Steel         | Steel       | Stainless steel |
| 1015        | .00/5    | .01/5         | .04/5       | .30/5           |



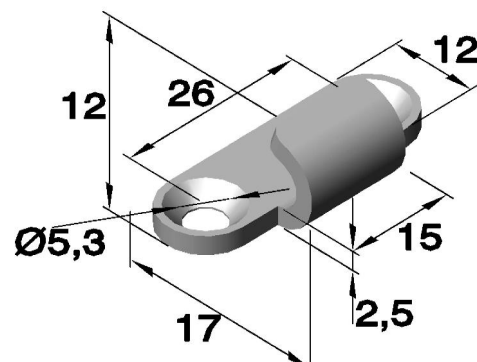
## Art. no.: 1024 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1024.\_\_/6

Art. no.: 1025.\_\_/6

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1024        | .04/5       | .30/5           |



# Strikes

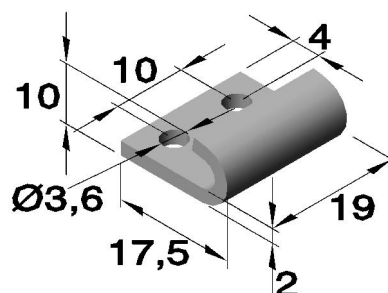
## Art. no.: 1027 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1027.\_\_\_/6

Art. no.: 1028.\_\_\_/6

| Article no. |               |             |
|-------------|---------------|-------------|
| Series      | Material      |             |
|             | Nickel plated | Zinc plated |
|             | Steel         | Steel       |
| 1027        | .01/5         | .04/5       |



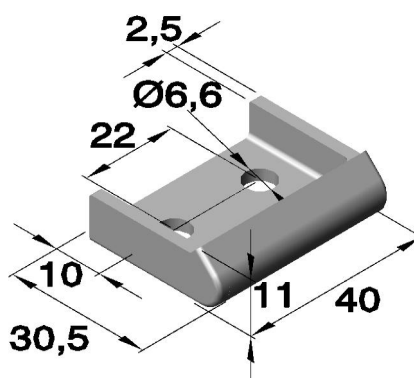
## Art. no.: 1029 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1029.\_\_\_/6

Art. no.: 1030.\_\_\_/6

| Article no. |             |  |
|-------------|-------------|--|
| Series      | Material    |  |
|             | Zinc plated |  |
|             | Steel       |  |
| 1029        | .04/5       |  |



## Art. no.: 1031 (drilled)

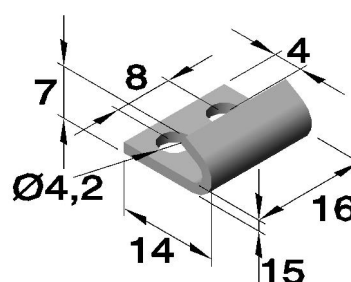
Strike for latch: see chapter „A“

Art. no.: 1031.\_\_\_/6

Art. no.: 1033.\_\_\_/6

Art. no.: 1032.\_\_\_/6

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1031        | .04/5       | .30/5           |



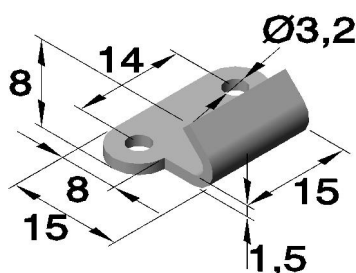
## Art. no.: 1034 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1034.\_\_\_/6

Art. no.: 1035.\_\_\_/6

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 1034        | .04/5       | .30/5           |



## Strikes

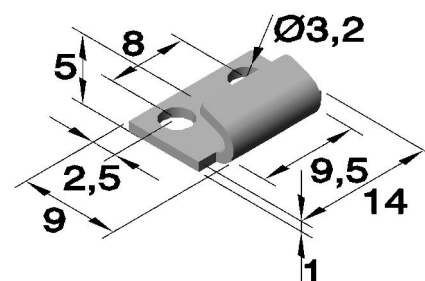
### Art. no.: 1036 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1036.\_\_/6

Art. no.: 1037.\_\_/6

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1036        | .04/5       |

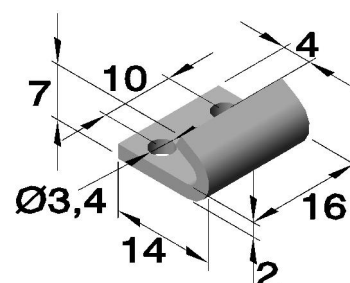


### Art. no.: 1038 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1038.\_\_/6

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 1038        | .04/5       |



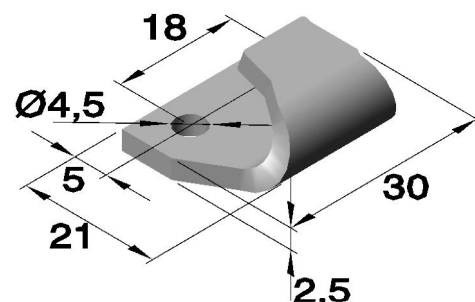
### Art. no.: 1039 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1022.\_\_/6

Art. no.: 1039.\_\_/6

| Article no. |             |         |
|-------------|-------------|---------|
| Series      | Material    |         |
|             | Zinc plated | Bronzed |
|             | Steel       | Steel   |
| 1039        | .04/5       | .05/5   |

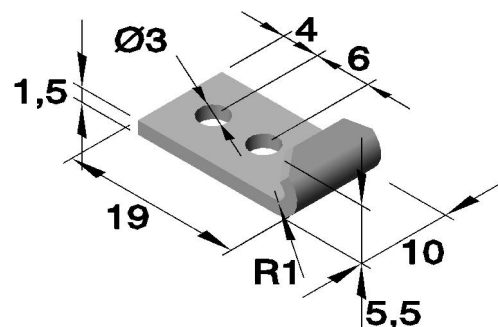


### Art. no.: 3601 (drilled)

Strike for latch: see chapter „A“

Art. no.: 3001

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3601        | .04         |



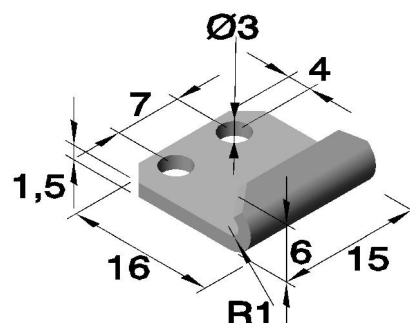
## Strikes

### Art. no.: 3602 (drilled)

Strike for latch: see chapter „A“

Art. no.: 1008.\_\_\_\_ Art. no.: 1010.\_\_\_\_ Art. no.: 1013.\_\_\_\_  
Art. no.: 1009.\_\_\_\_ Art. no.: 1012.\_\_\_\_ Art. no.: 1014.\_\_\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3602        | .04         |

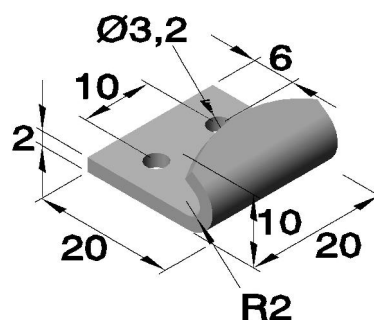


### Art. no.: 3603 (drilled)

Strike for latch: see chapter „A“

Art. no.: 3003

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3603        | .04         |

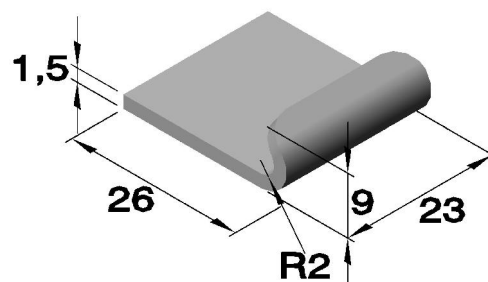


### Art. no.: 3604

Strike for latch: see chapter „A“

Art. no.: 3004.\_\_\_\_ Art. no.: 3007.\_\_\_\_  
Art. no.: 3005.\_\_\_\_ Art. no.: 3008.\_\_\_\_  
Art. no.: 3006.\_\_\_\_ Art. no.: 3009.\_\_\_\_

| Article no. |          |
|-------------|----------|
| Series      | Material |
|             | Raw      |
|             | Steel    |
| 3604        | .00-U1   |

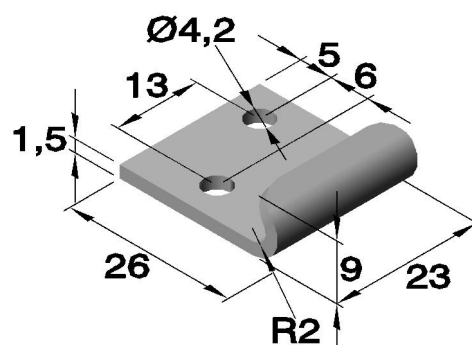


### Art. no.: 3604 (drilled)

Strike for latch: see chapter „A“

Art. no.: 3004.\_\_\_\_ Art. no.: 3007.\_\_\_\_  
Art. no.: 3005.\_\_\_\_ Art. no.: 3008.\_\_\_\_  
Art. no.: 3006.\_\_\_\_ Art. no.: 3009.\_\_\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3604        | .04         |



## Strikes

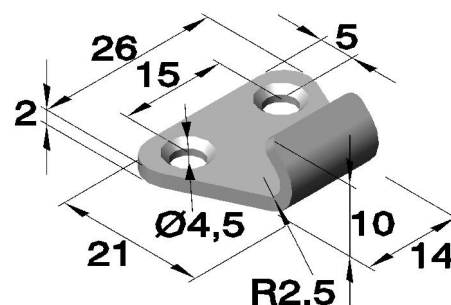
### Art. no.: 3605 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3012. \_\_ Art. no.: 3014. \_\_

Art. no.: 3013. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless-steel |
| 3605        | .04         | .30             |



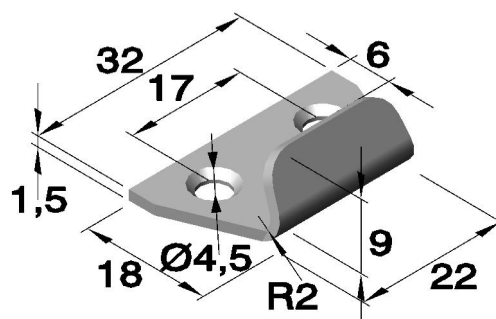
### Art. no.: 3606 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3007. \_\_ Art. no.: 3009. \_\_

Art. no.: 3008. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless-steel |
| 3606        | .04         |                 |

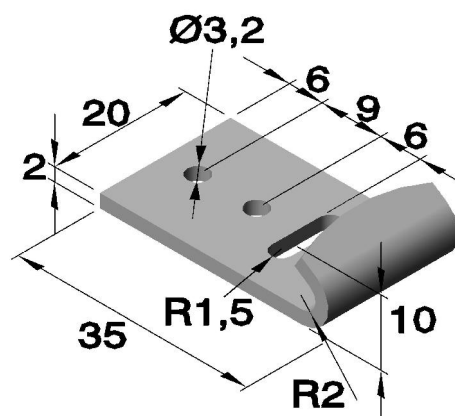


### Art. no.: 3607 (drilled)

Strike for latch: see chapter „A“

Art. no.: 3003. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3607        | .04         | .30             |



### Art. no.: 3608 (drilled and countersunk)

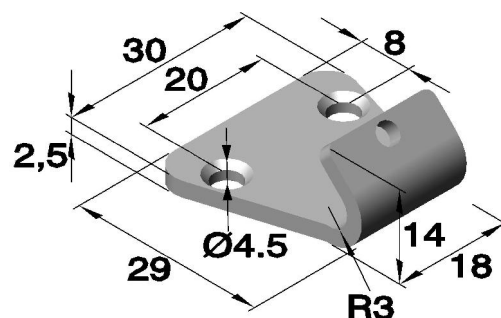
Strike for latch: see chapter „A“

Art. no.: 3010. \_\_ Art. no.: 3018. \_\_

Art. no.: 3011. \_\_ Art. no.: 3019. \_\_

Art. no.: 3015. \_\_ Art. no.: 3020. \_\_

| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | Stainless steel |
| 3608        | .04         | .30             | .33             |





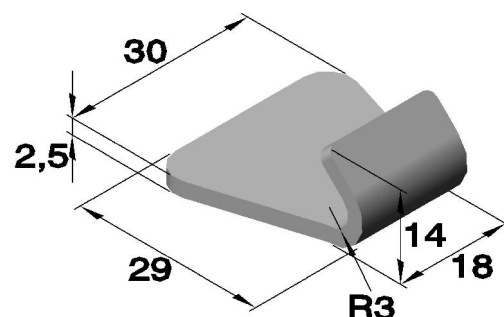
## Strikes

### Art. no.: 3608

Strike for latch: see chapter „A“

Art. no.: 3010. \_\_ Art. no.: 3018. \_\_  
Art. no.: 3011. \_\_ Art. no.: 3019. \_\_  
Art. no.: 3015. \_\_ Art. no.: 3020. \_\_

| Article no. |          |             |                 |
|-------------|----------|-------------|-----------------|
| Series      | Material |             |                 |
|             | Raw      | Zinc plated | Raw             |
|             | Steel    | Steel       | Stainless steel |
| 3608        | .00-U1   | .04-U1      | .30-U1          |

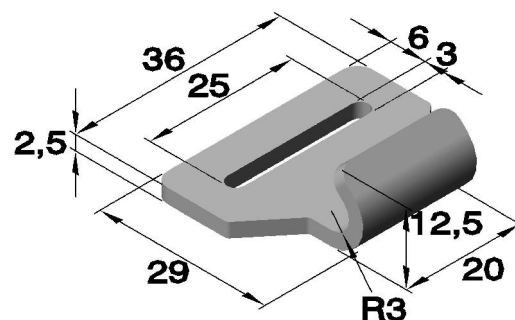


### Art. no.: 3609

Strike for latch: see chapter „A“

Art. no.: 3017. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3609        | .04         | .30             |

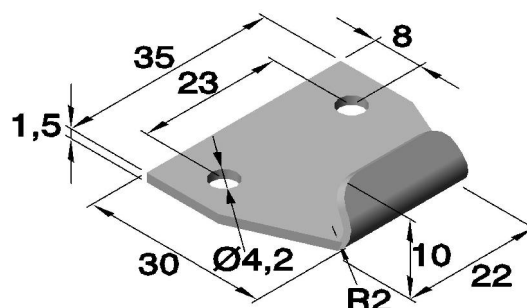


### Art. no.: 3610 (drilled)

Strike for latch: see chapter „A“

Art. no.: 3007. \_\_ Art. no.: 3009. \_\_  
Art. no.: 3008. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3610        | .04         | .30             |

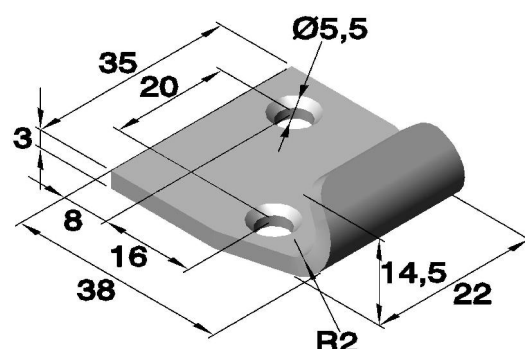


### Art. no.: 3611 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3010. \_\_ Art. no.: 3018. \_\_  
Art. no.: 3011. \_\_ Art. no.: 3019. \_\_  
Art. no.: 3015. \_\_ Art. no.: 3020. \_\_

| Article no. |             |                 |                 |
|-------------|-------------|-----------------|-----------------|
| Series      | Material    |                 |                 |
|             | Zinc plated | Raw             | Polished        |
|             | Steel       | Stainless steel | Stainless steel |
| 3611        | .04         | .30             | .33             |



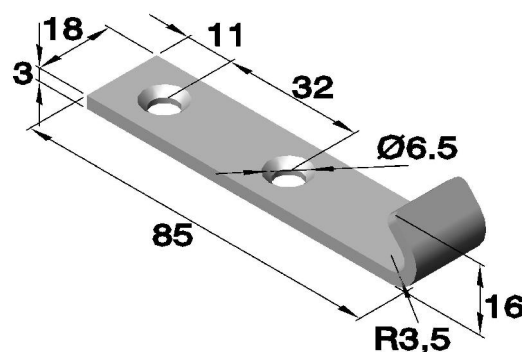
## Strikes

### Art. no.: 3612 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3010.\_\_\_\_ Art. no.: 3019.\_\_\_\_  
Art. no.: 3011.\_\_\_\_ Art. no.: 3020.\_\_\_\_  
Art. no.: 3015.\_\_\_\_ Art. no.: 3320.\_\_\_\_  
Art. no.: 3018.\_\_\_\_ Art. no.: 3520.\_\_\_\_

| Article no. |          |             |                 |                 |
|-------------|----------|-------------|-----------------|-----------------|
| Series      | Material |             |                 |                 |
|             | Raw      | Zinc plated | Raw             | Polished        |
|             | Steel    | Steel       | Stainless steel | Stainless steel |
| 3612        | .00      | .04         | .30             | .33             |

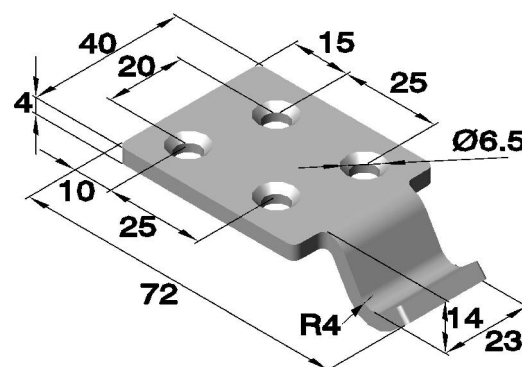


### Art. no.: 3615 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320.\_\_\_\_ Art. no.: 3520.\_\_\_\_

| Article no. |             |  |  |  |
|-------------|-------------|--|--|--|
| Series      | Material    |  |  |  |
|             | Zinc plated |  |  |  |
|             | Steel       |  |  |  |
| 3615        | .04         |  |  |  |

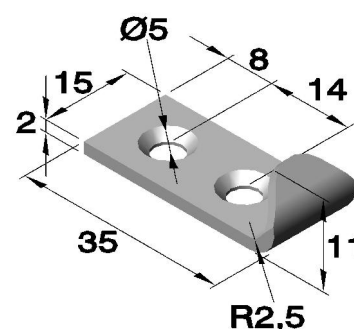


### Art. no.: 3616 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3012.\_\_\_\_ Art. no.: 3014.\_\_\_\_  
Art. no.: 3013.\_\_\_\_

| Article no. |             |  |  |  |
|-------------|-------------|--|--|--|
| Series      | Material    |  |  |  |
|             | Zinc plated |  |  |  |
|             | Steel       |  |  |  |
| 3616        | .04         |  |  |  |

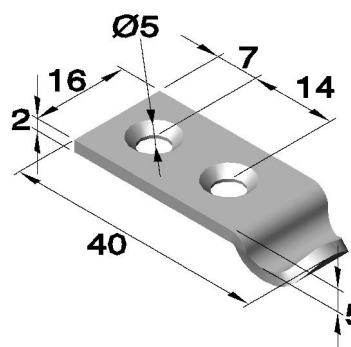


### Art. no.: 3618 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3012.\_\_\_\_ Art. no.: 3014.\_\_\_\_  
Art. no.: 3013.\_\_\_\_

| Article no. |             |  |                 |  |
|-------------|-------------|--|-----------------|--|
| Series      | Material    |  |                 |  |
|             | Zinc plated |  | Raw             |  |
|             | Steel       |  | Stainless steel |  |
| 3618        | .04         |  | .30             |  |



## Strikes

### Art. no.: 3619 (drilled and countersunk)

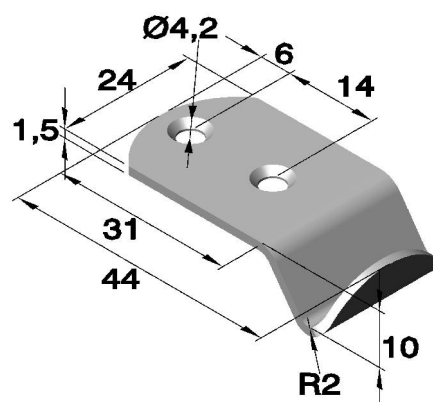
Strike for latch: see chapter „A“

Art. no.: 3004.\_\_\_\_ Art. no.: 3007.\_\_\_\_

Art. no.: 3005.\_\_\_\_ Art. no.: 3008.\_\_\_\_

Art. no.: 3006.\_\_\_\_ Art. no.: 3009.\_\_\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3619        | .04         |



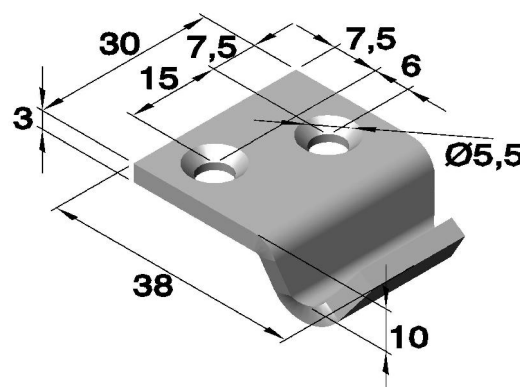
### Art. no.: 3620 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320.\_\_\_\_

Art. no.: 3520.\_\_\_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3620        | .04         |



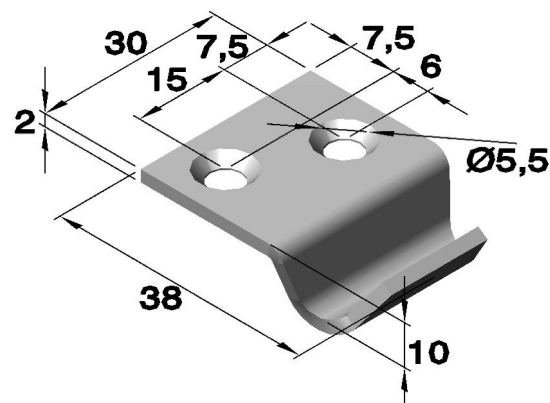
### Art.Nr. 3620 (drilled and countersunk)

Strike for latch: see chapter „A“

Art.no. 3320.\_\_\_\_

Art.no. 3520.\_\_\_\_

| Article no. |                 |                 |
|-------------|-----------------|-----------------|
| Series      | Material        |                 |
|             | Raw             | Polished        |
|             | Stainless steel | Stainless steel |
| 3620        | .30             | .33             |



### Art. no.: 3622 (drilled and countersunk)

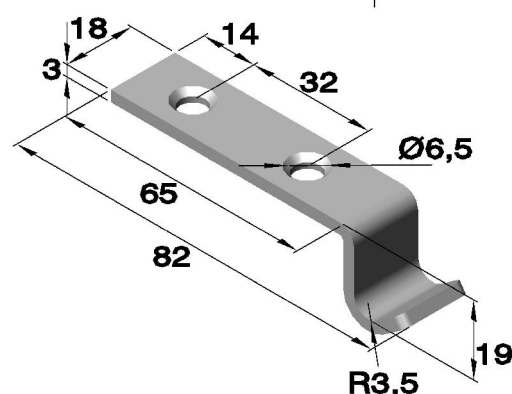
Strike for latch: see chapter „A“

Art. no.: 3010.\_\_\_\_ Art. no.: 3018.\_\_\_\_ Art. no.: 3320.\_\_\_\_

Art. no.: 3011.\_\_\_\_ Art. no.: 3019.\_\_\_\_ Art. no.: 3520.\_\_\_\_

Art. no.: 3015.\_\_\_\_ Art. no.: 3020.\_\_\_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Polished        |
|             | Steel       | Stainless steel |
| 3622        | .04         | .33             |



## Strikes

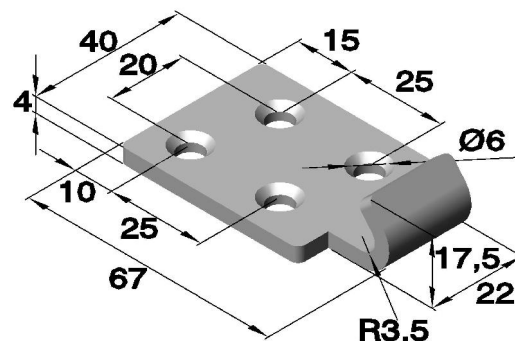
### Art. no.: 3623 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320. \_\_

Art. no.: 3520. \_\_

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3623        | .04         |



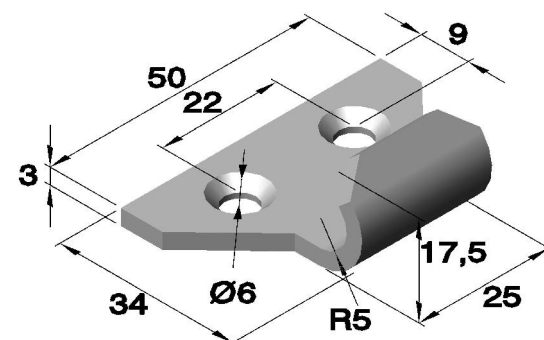
### Art. no.: 3624 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320. \_\_

Art. no.: 3520. \_\_

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 3624        | .30             |



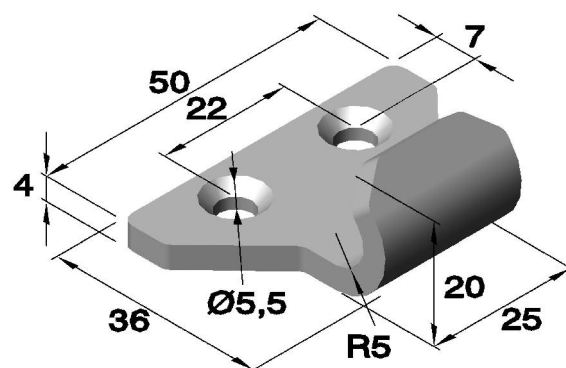
### Art. no.: 3624. \_\_RF-3 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320. \_\_

Art. no.: 3520. \_\_

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 3624        | .30RF-3         |



### Art. no.: 3625 (drilled and countersunk)

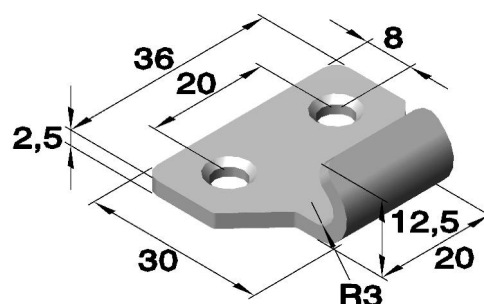
Strike for latch: see chapter „A“

Art. no.: 3010. \_\_ Art. no.: 3018. \_\_

Art. no.: 3011. \_\_ Art. no.: 3019. \_\_

Art. no.: 3015. \_\_ Art. no.: 3020. \_\_

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
|             | .04         | .30             |



## Strikes

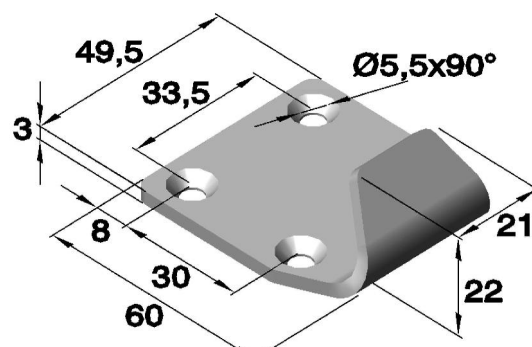
Art. no.: 3626 (drilled and countersunk)

Strike for latch: see chapter „A“

Art. no.: 3320. \_\_

Art. no.: 3520. \_\_

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 3626        | .30             |



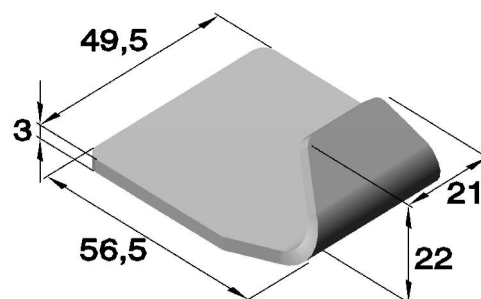
Art.no. 3626. \_\_-U1

Strike for latch: see chapter „A“

Art.no. 3320. \_\_

Art.no. 3520. \_\_

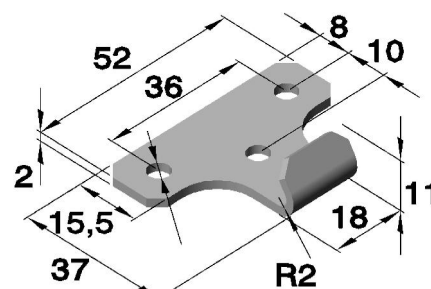
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 3626        | .30-U1          |



Art. no.: 3627 (drilled)

Strike for latch: see chapter „A“

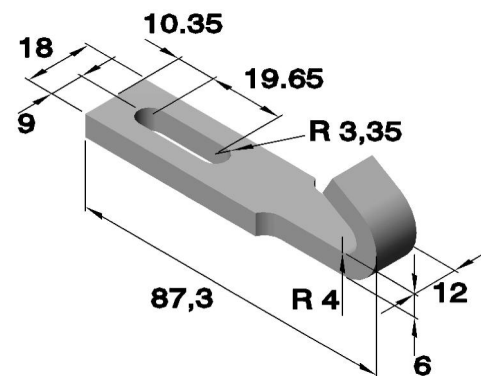
| Article no. |               |
|-------------|---------------|
| Series      | Material      |
|             | Nickel plated |
|             | Steel         |
| 3627        | .01           |



Art.no. 3633. (drilled)

Strike for latch: see chapter „A“

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3633        | .04         |





# Strikes

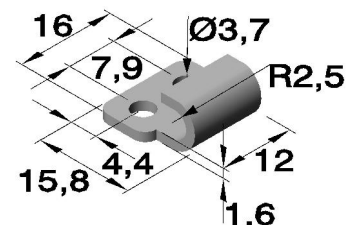
## Art. no.: 6200. (drilled)

Strike for latch: see chapter „A“

Art. no.: 6200.01.30

Art. no.: 6201.01.30

Art. no.: 6203.01.30

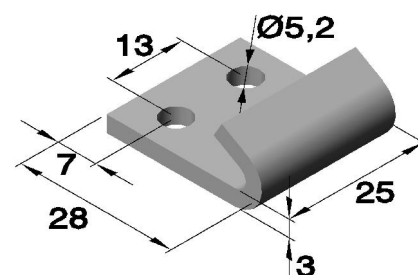


| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6200        | .04         | .30             |

## Art. no.: 6375.02. (drilled)

Strike for latch: see chapter „A“

Art. no.: 6370.04

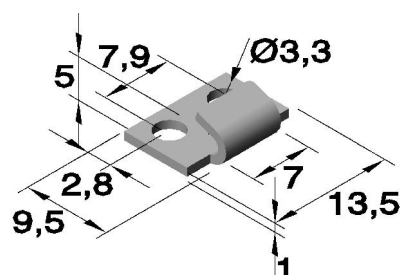


| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6375.02     | .04         |                 |

## Art. no.: 6379.01. (drilled)

Strike for latch: see chapter „A“

Art. no.: 6208.02.30

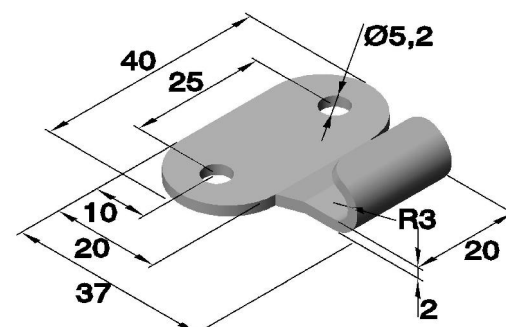


| Article no. |                 |                 |
|-------------|-----------------|-----------------|
| Series      | Material        |                 |
|             | Raw             | Raw             |
|             | Stainless steel | Stainless steel |
| 6379.01     | .30             |                 |

## Art. no.: 6603. (drilled)

Strike for latch: see chapter „A“

Art. no.: 6602. \_\_.



| Article no. |                         |             |                 |
|-------------|-------------------------|-------------|-----------------|
| Series      | Material                |             |                 |
|             | Raw                     | Zinc plated | Raw             |
|             | Stainless steel         | Steel       | Stainless steel |
| 6603        | Without holes<br>.03.30 | .05.04      | .06.30          |

## Strikes

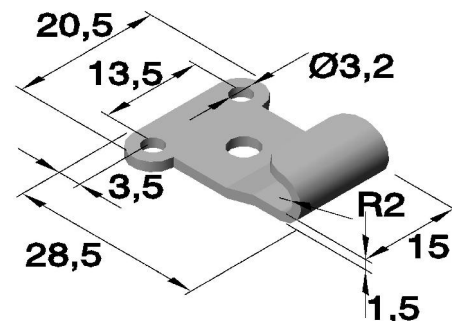
Art. no.: 6605. (drilled)

Strike for latch: see chapter „A“

Art. no.: 6255. \_\_.

Art. no.: 6604. \_\_.

| Article no. |                         |             |                         |                 |
|-------------|-------------------------|-------------|-------------------------|-----------------|
| Series      | Material                |             |                         |                 |
|             | Zinc plated             | Zinc plated | Raw                     | Raw             |
|             | Steel                   | Steel       | Stainless steel         | Stainless steel |
| 6605        | Without holes<br>.01.04 | .02.04      | Without holes<br>.03.30 | .06.30          |





**Tension bands  
Hose clamps**

**Hose clips  
Pipe clips**

**"Band-IT" tension bands  
and cable ties**



Management  
System  
ISO 9001:2015  
ISO 14001:2015

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## FOLDER 2

### TENSION BANDS AND HOSE CLAMPS

#### FOLDER 1 LATCHES

#### FOLDER 2 TENSION BANDS

|                                               |      |
|-----------------------------------------------|------|
| TENSION BANDS AND HOSE CLAMPS.....            | C    |
| • TENSION BANDS AND HOSE CLAMPS .....         | C-1  |
| • „BAND-IT“ TENSION BANDS AND CABLE TIES..... | C-31 |
| • HOSE CLIPS AND PIPE CLIPS .....             | C-51 |

#### FOLDER 3 HANDLES

#### FOLDER 4 HINGES

#### FOLDER 5 LOCKING DEVICES

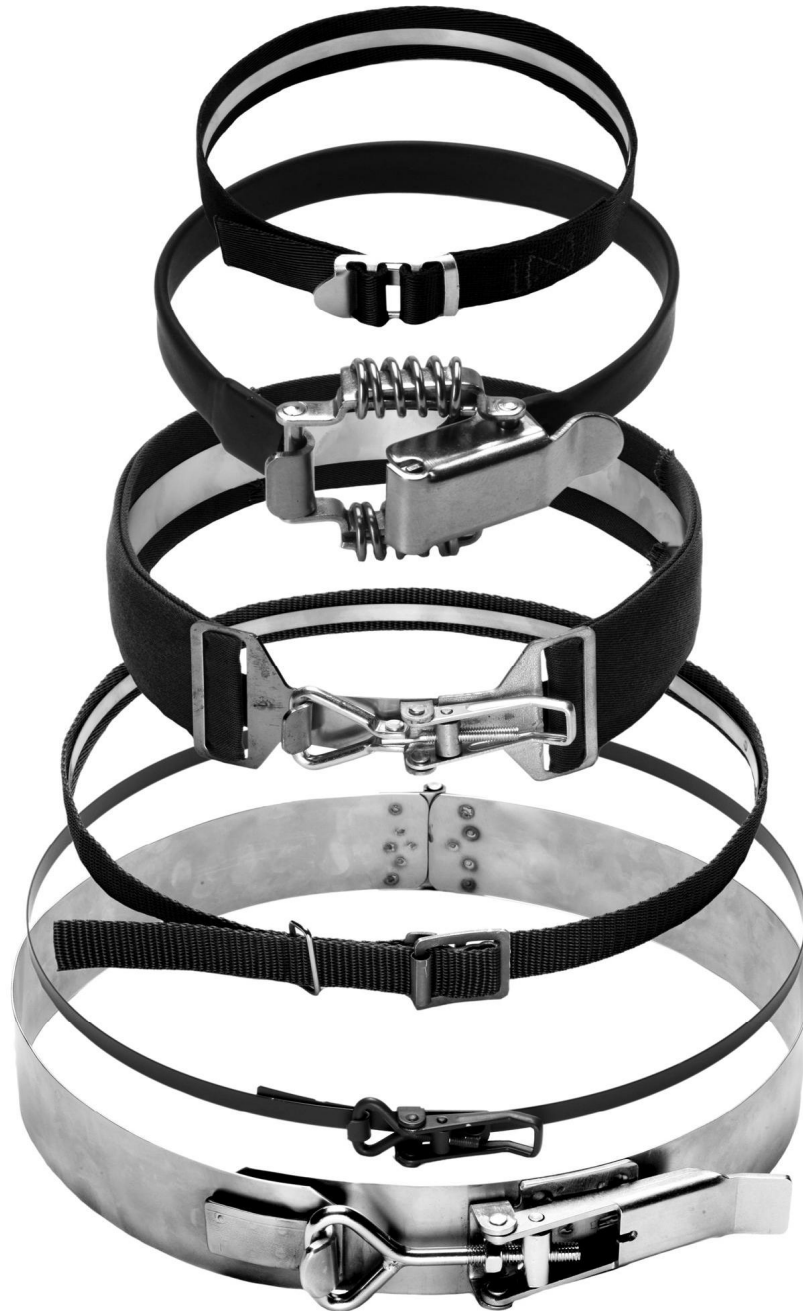
#### FOLDER 6 THREADED INSERTS

#### FOLDER 7 SUNDRIES

#### GENERAL TERMS AND CONDITIONS.....

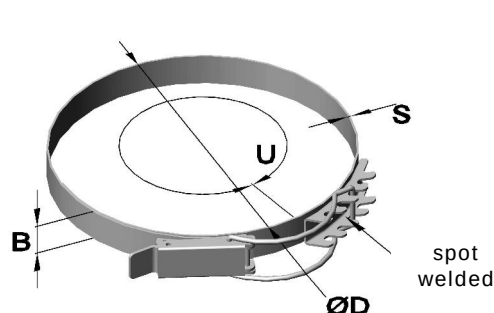


## Tension bands and hose clamps

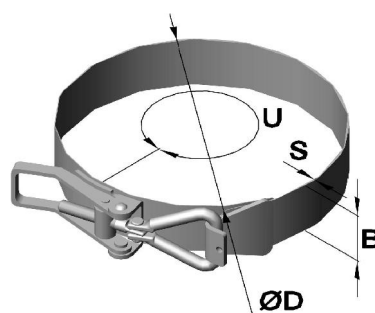




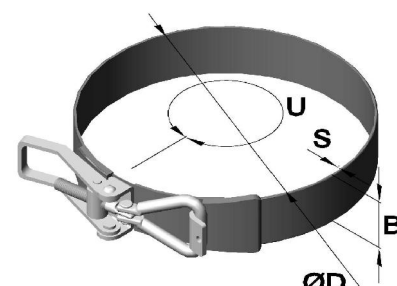
## Tension bands and hose clamps



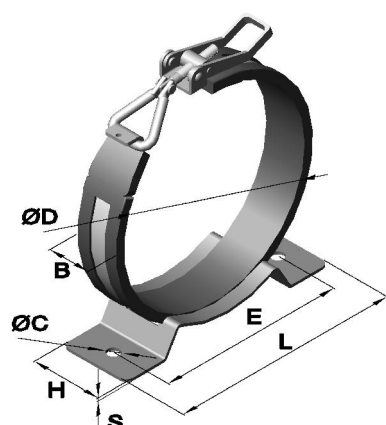
**Series 1201**  
tension band  
with and without  
spring



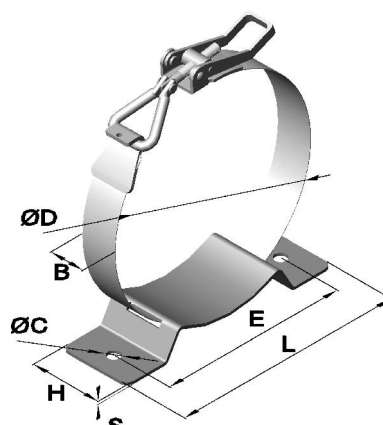
**Series 1301**  
tension band



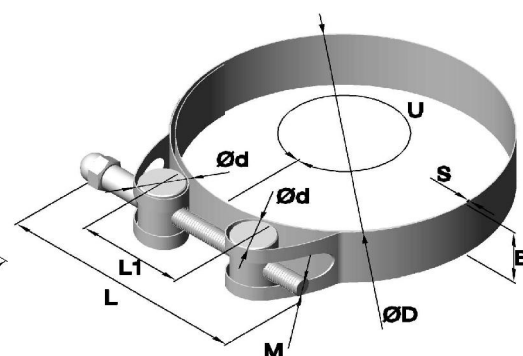
**Series 1401**  
tension band with  
plastic coating



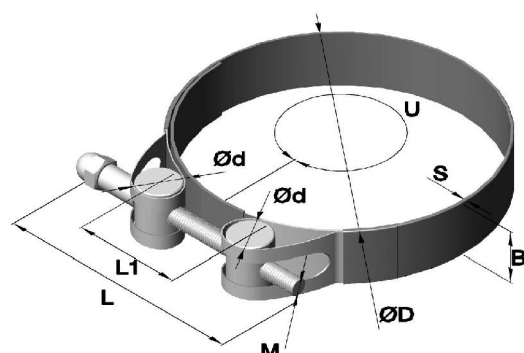
**Series 1501**  
hose clamp  
with console and  
C-rubber profile



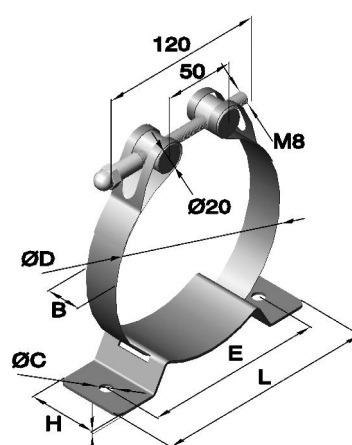
**Series 1601**  
hose clamp  
with console



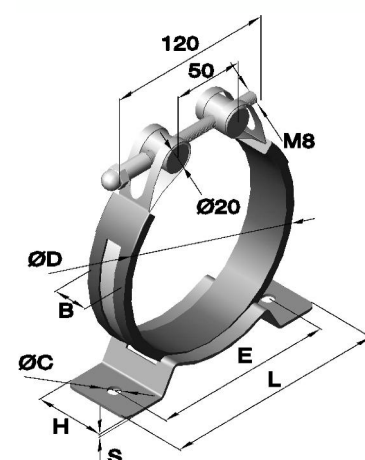
**Series 1701**  
hinge bolt-tension band



**Series 1801**  
hinge bolt-tension band  
with rubber profile



**Series 1901 Type1**  
hose clamp with  
console and hinge bolt



**Series 1901 Type2**  
hose clamp with console, C-rubber  
profile and hinge bolt

## Tension bands and hose clamps

### Tension band „Series 1201.F“

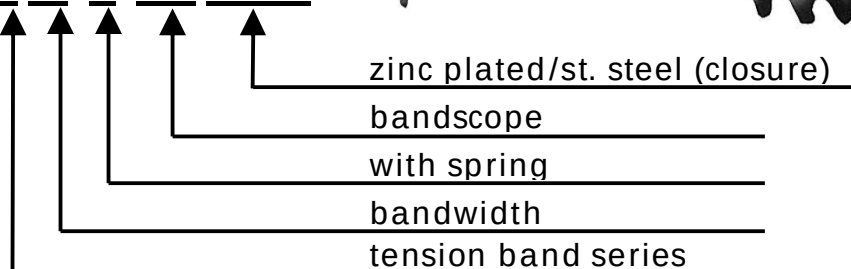
Combination-example: with spring

- latch 1009.04
- strike C-1322-00 with spring
- band 10x0,4mm



Order example:

Art.no 12 10 F. 361 .04/30



| Article no. |                |                  |                |                 | Dimensions in mm |                |
|-------------|----------------|------------------|----------------|-----------------|------------------|----------------|
| Series      | B<br>Bandwidth | U<br>Scope in mm | Material       |                 | Ø D              | S<br>Thickness |
|             |                |                  | Zinc<br>plated | Raw             |                  |                |
|             |                |                  | Steel          | Stainless steel |                  |                |
| 12          | 08F.           | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 12          | 10F.           | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |

Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |    |                |                 | Dimensions in mm |            |                |
|-------------|----------------|----|----------------|-----------------|------------------|------------|----------------|
| Series      | B<br>Bandwidth | DN | Material       |                 | Ø D              | U<br>Scope | S<br>Thickness |
|             |                |    | Zinc<br>plated | Raw             |                  |            |                |
|             |                |    | Steel          | Stainless steel |                  |            |                |
| 1210F.      | DN 100         |    | .04            | .30             | Ø 114,3          | 359        | 0,4/1,0        |
| 1210F.      | DN 125         |    | .04            | .30             | Ø 139,7          | 439        | 0,4/1,0        |
| 1210F.      | DN 150         |    | .04            | .30             | Ø 168,3          | 529        | 0,4/1,0        |
| 1210F.      | DN 200         |    | .04            | .30             | Ø 219,1          | 688        | 0,4/1,0        |
| 1210F.      | DN 250         |    | .04            | .30             | Ø 273,0          | 858        | 0,4/1,0        |
| 1210F.      | DN 300         |    | .04            | .30             | Ø 323,9          | 1018       | 0,4/1,0        |

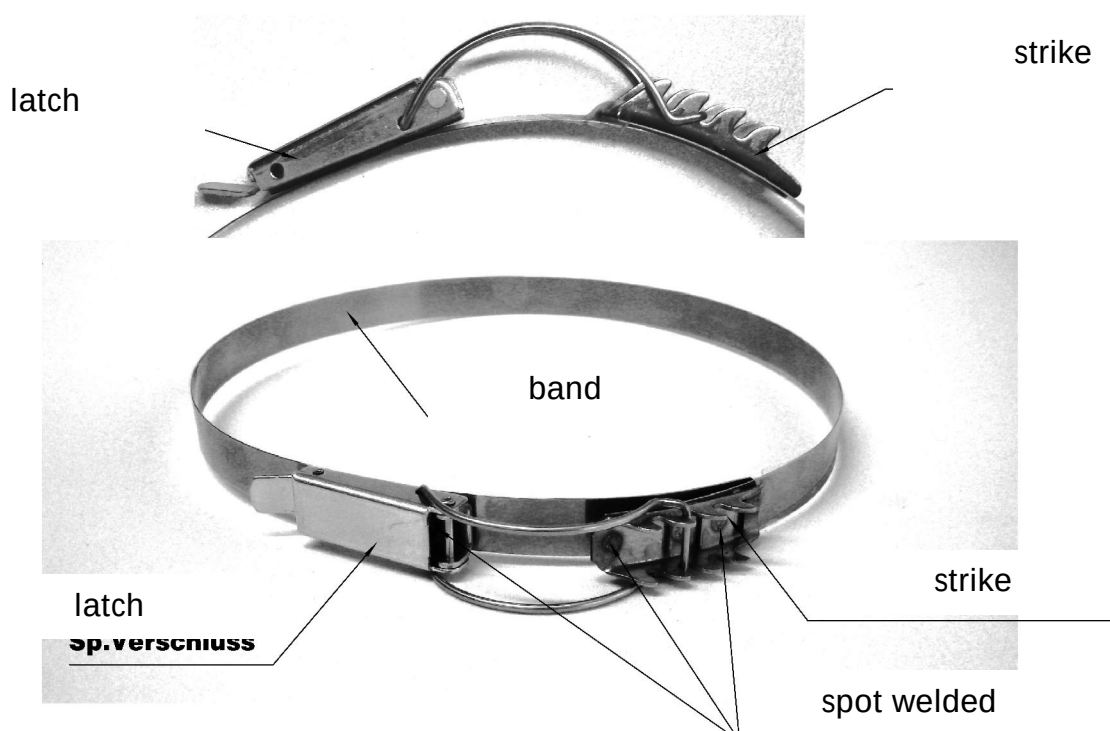
Further combinations are possible

## Tension bands and hose clamps

Tension band with latch „Series 1201“

Combination-example: without spring

- latch 1009.30/6
- strike C-1322-202NB.30
- band 15x1,0mm



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no.  |                |    |                | Dimensions in mm |         |            |
|--------------|----------------|----|----------------|------------------|---------|------------|
| Series       | B<br>Bandwidth | DN | Material       |                  | Ø D     | U<br>Scope |
|              |                |    | Zinc<br>plated | Raw              |         |            |
|              |                |    | Steel          | Stainless steel  |         |            |
| 1215. DN 100 |                |    | .04            | .30              | Ø 114,3 | 359        |
| 1215. DN 125 |                |    | .04            | .30              | Ø 139,7 | 439        |
| 1215. DN 150 |                |    | .04            | .30              | Ø 168,3 | 529        |
| 1215. DN 200 |                |    | .04            | .30              | Ø 219,1 | 688        |
| 1215. DN 250 |                |    | .04            | .30              | Ø 273,0 | 858        |
| 1215. DN 300 |                |    | .04            | .30              | Ø 323,9 | 1018       |

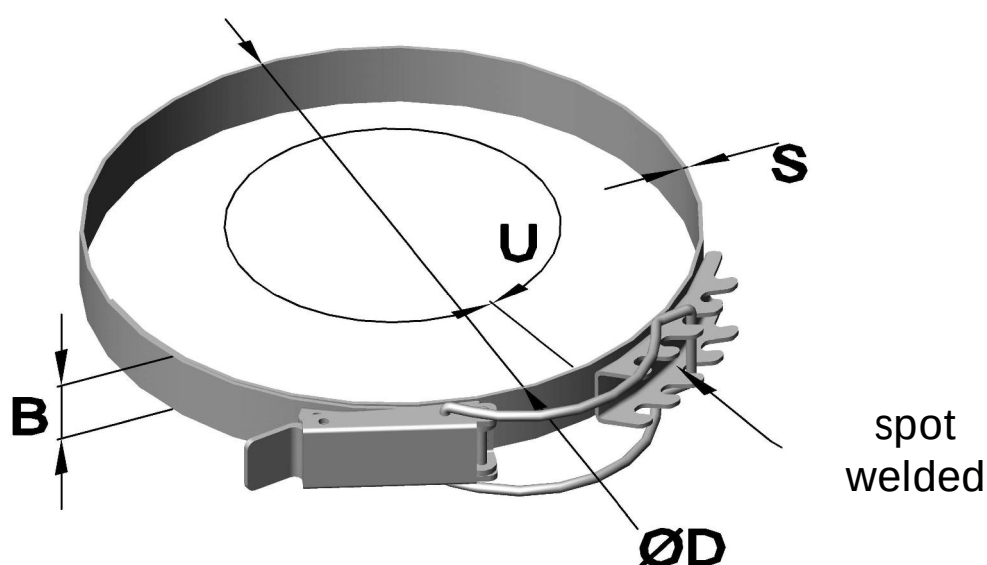
Further combinations are possible

## Tension bands and hose clamps

Tension band with latch „Series 1201“

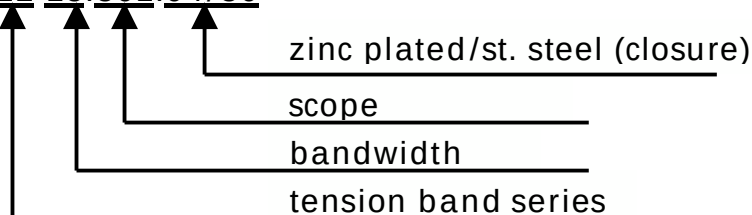
Combination-example: without spring

- latch 1201.33/6
- strike C-1322-202NB.30
- band 15x1,0mm



Order example:

Art.no 12 15.361.04/30



| Article no. |                |                   |                |                 | Dimensions in mm |                |
|-------------|----------------|-------------------|----------------|-----------------|------------------|----------------|
| Series      | B<br>Bandwidth | U<br>Scope in mm  | Material       |                 | Ø D              | S<br>Thickness |
|             |                |                   | Zinc<br>plated | Raw             |                  |                |
|             |                |                   | Steel          | Stainless steel |                  |                |
| 12          | 10.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |
| 12          | 15.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |
| 12          | 20.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |
| 12          | 25.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |
| 12          | 30.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |
| 12          | 35.            | from 315-untill ∞ | .04            | .30             | ab Ø100-∞        | 0,4/1,0        |

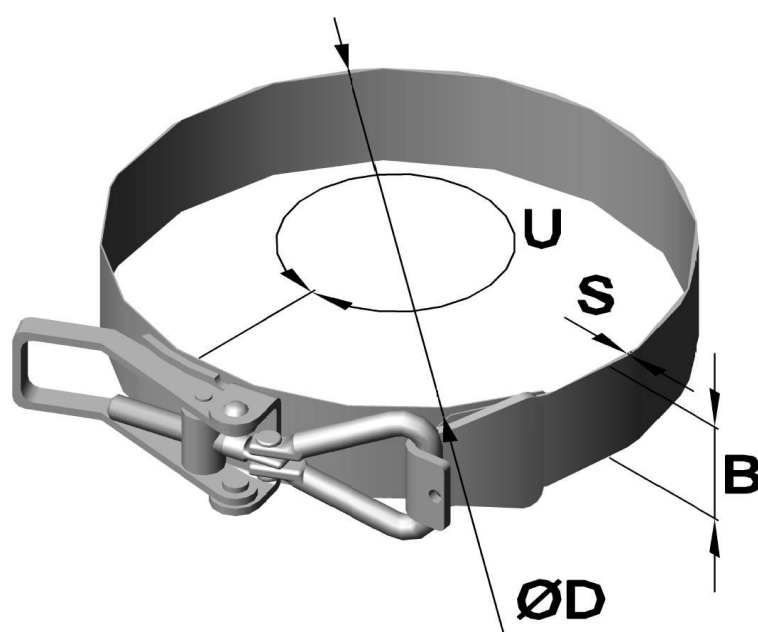
Further combinations are possible

## Tension bands and hose clamps

### Tension band with latch „Series 1301“

Combination-example:

- latch 3015.33RF-1/MOD
- strike 1301.GEGENHAKEN.33
- band 25x0,4mm
- triangel 120/4.33MOD



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |    |                 | Dimensions in mm |            |                |
|-------------|----------------|----|-----------------|------------------|------------|----------------|
| Series      | B<br>Bandwidth | DN | Material        | Ø D              | U<br>Scope | S<br>Thickness |
|             |                |    | Raw             |                  |            |                |
|             |                |    | Stainless steel |                  |            |                |
| 1325.       | DN 100         |    | .30             | Ø 114,3          | 359        | 0,4            |
| 1325.       | DN 125         |    | .30             | Ø 139,7          | 439        | 0,4            |
| 1325.       | DN 150         |    | .30             | Ø 168,3          | 529        | 0,4            |
| 1325.       | DN 200         |    | .30             | Ø 219,1          | 688        | 0,4            |
| 1325.       | DN 250         |    | .30             | Ø 273,0          | 858        | 0,4            |
| 1325.       | DN 300         |    | .30             | Ø 323,9          | 1018       | 0,4            |

Further combinations are possible



## Tension bands and hose clamps

### Tension band with latch „Series 1301“

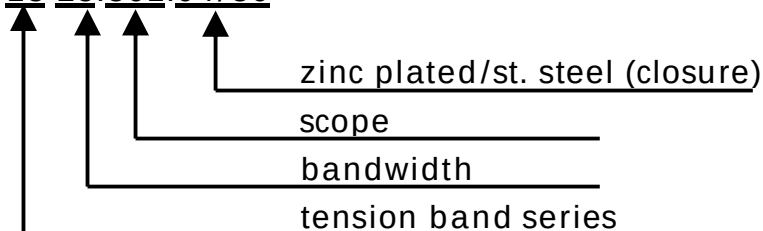
Combination-example:

- latch 3015.04
- strike 3608.04
- band 25x0,4mm



Order example:

Art.no 13 25 361.04/30



| Article no. |                |                  |                |                 | Dimensions in mm |                |
|-------------|----------------|------------------|----------------|-----------------|------------------|----------------|
| Series      | B<br>Bandwidth | U<br>Scope in mm | Material       |                 | Ø D              | S<br>Thickness |
|             |                |                  | Zinc<br>plated | Raw             |                  |                |
|             |                |                  | Steel          | Stainless steel |                  |                |
| 13          | 15.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 20.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 25.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 30.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 35.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 40.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 13          | 50.            | from 315-until ∞ | .04            | .30             | from Ø100-∞      | 0,4/1,0        |

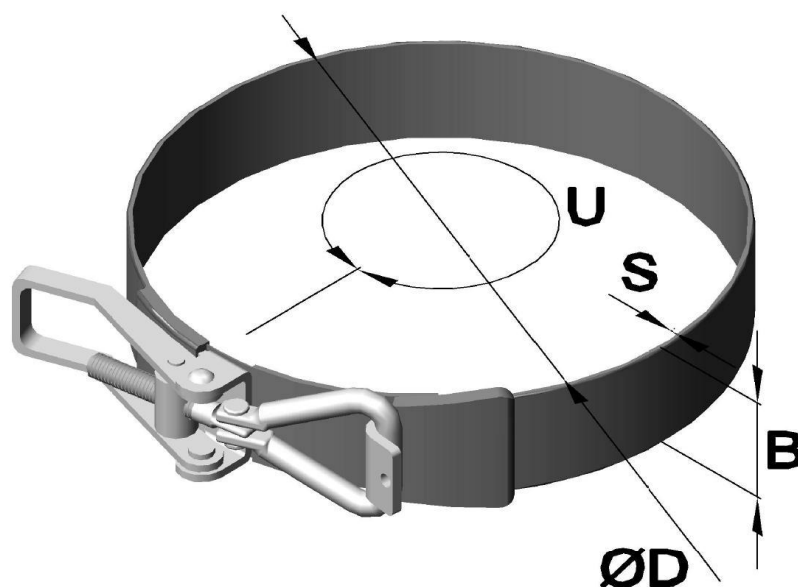
Further combinations are possible

## Tension bands and hose clamps

Tension band with latch „Series 1401“  
with plastic coating

Combination-example:

- latch 3015.33RF-1/MOD
  - strike 1301.GEG.33
  - band 25x0,4mm
  - triangel 120/4.33MOD
- with plastic coating



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |        |                 | Dimensions in mm |      |                |
|-------------|----------------|--------|-----------------|------------------|------|----------------|
| Series      | B<br>Bandwidth | DN     | Material        | Ø D              | U    | S<br>Thickness |
|             |                |        | Raw             |                  |      |                |
|             |                |        | Stainless steel |                  |      |                |
|             | 1425.          | DN 100 | .30             | Ø 114,3          | 359  | 0,4            |
|             | 1425.          | DN 125 | .30             | Ø 139,7          | 439  | 0,4            |
|             | 1425.          | DN 150 | .30             | Ø 168,3          | 529  | 0,4            |
|             | 1425.          | DN 200 | .30             | Ø 219,1          | 688  | 0,4            |
|             | 1425.          | DN 250 | .30             | Ø 273,0          | 858  | 0,4            |
|             | 1425.          | DN 300 | .30             | Ø 323,9          | 1018 | 0,4            |

Further combinations are possible

## Tension bands and hose clamps

Tension band with latch „Series 1401“  
with plastic coating

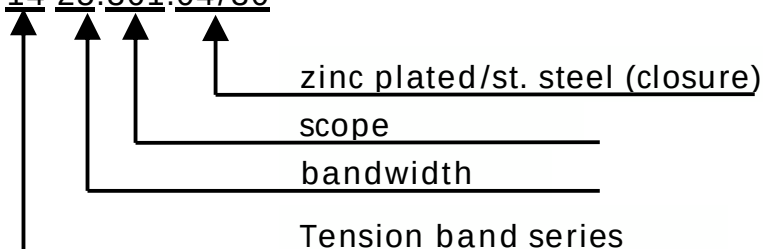
Combination-example:

- latch 3015.04
- strike 3608.04
- band 25x0,4mm
- with plastic coating



Order example:

Art.no 14 25.361.04/30

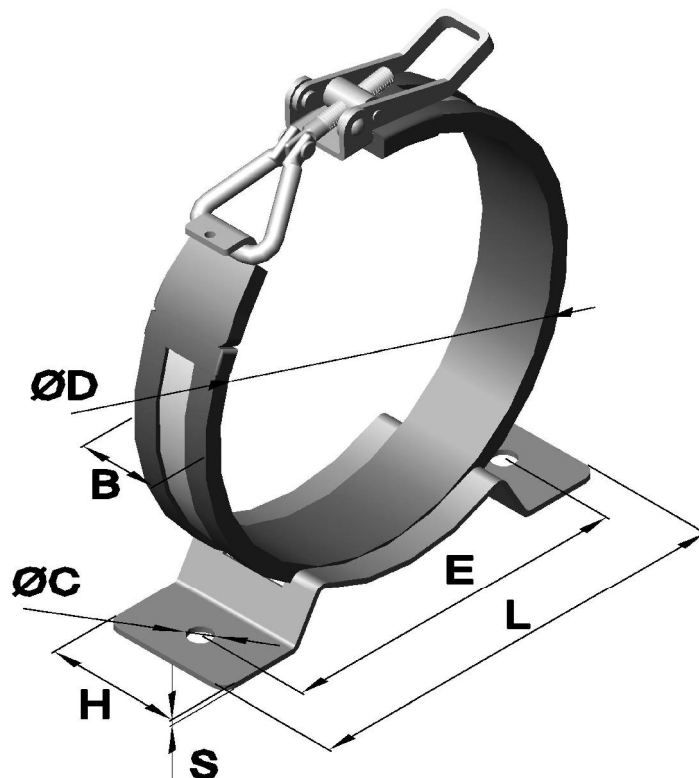


| Article no. |                |                               |                |                 | Dimensions in mm |                |
|-------------|----------------|-------------------------------|----------------|-----------------|------------------|----------------|
| Series      | B<br>Bandwidth | U<br>Scope in mm              | Material       |                 | Ø D              | S<br>Thickness |
|             |                |                               | Zinc<br>plated | Raw             |                  |                |
|             |                |                               | Steel          | Stainless steel |                  |                |
| 14          | 15.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 20.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 25.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 30.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 35.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 40.            | from 315-untill∞ (stepplesly) | .04            | .30             | from Ø100-∞      | 0,4/1,0        |
| 14          | 50.            | from 315-untill∞ (stepplesly) | .04            | .03             | from Ø100-∞      | 0.4/1.0        |

Further combinations are possible

## Tension bands and hose clamps

Hose clamps „Series 1501“  
with console and C-rubber profile



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no.  |                |    | Dimensions in mm |         |    |     |     |    |
|--------------|----------------|----|------------------|---------|----|-----|-----|----|
| Series       | B<br>Bandwidth | DN | Material         | Ø D     | H  | E   | L   | ØC |
|              |                |    | Raw              |         |    |     |     |    |
|              |                |    | Stainless steel  |         |    |     |     |    |
| 1525. DN 100 |                |    | .30              | Ø 114,3 | 50 | 130 | 160 | 9  |
| 1525. DN 125 |                |    | .30              | Ø 139,7 | 50 | 130 | 160 | 9  |
| 1525. DN 150 |                |    | .30              | Ø 168,3 | 50 | 170 | 200 | 9  |
| 1525. DN 200 |                |    | .30              | Ø 219,1 | 50 | 170 | 250 | 9  |
| 1525. DN 250 |                |    | .30              | Ø 273,0 | 50 | 220 | 250 | 9  |
| 1525. DN 300 |                |    | .30              | Ø 323,9 | 50 | 220 | 250 | 9  |

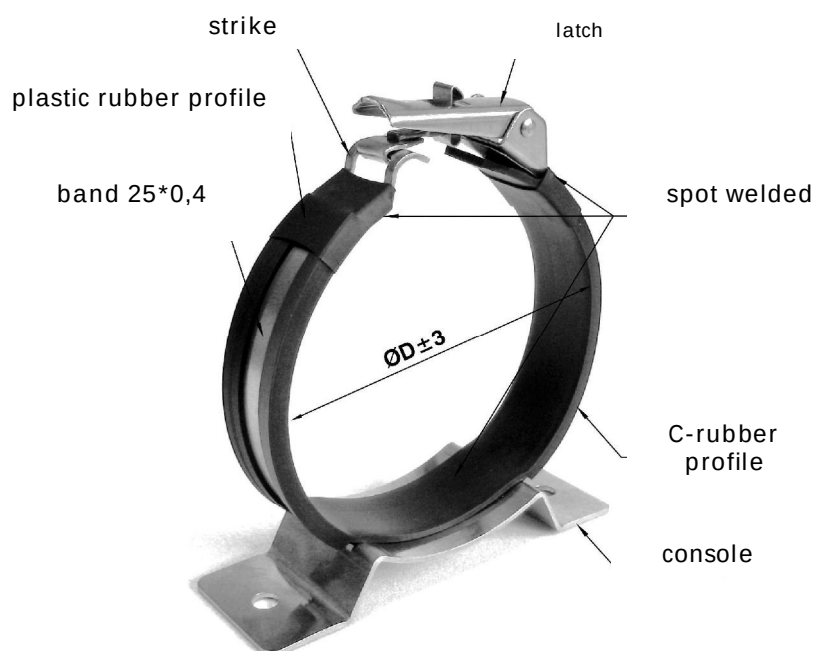
Further combinations are possible

## Tension bands and hose clamps

Hose clamps „Series 1501“  
with console and C-rubber profile

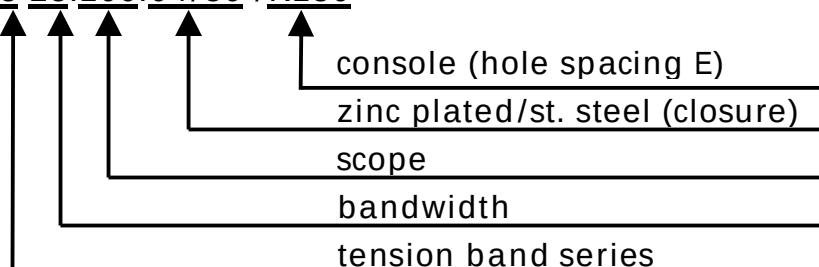
Combination-example:

- latch V951L50-3BP
- strike V951L04x2BP
- band 25x0,4mm
- with C-rubber profile
- with console K130



Order example:

Art.no 15 25.100.04/30 /K130



| Article no. |                |                                |                |                    |         | Dimensions in mm |     |    |     |     |        |
|-------------|----------------|--------------------------------|----------------|--------------------|---------|------------------|-----|----|-----|-----|--------|
| Series      | B<br>Bandwidth | Ø D                            | Material       |                    |         | Ø C              | E   | H  | L   | S   | Band   |
|             |                |                                | Zinc<br>plated | Stainless<br>steel | Console |                  |     |    |     |     |        |
| 15          | 15.            | from Ø60-until Ø120(steplesly) | .04            | .30                | /K46    | 5                | 46  | 25 | 56  | 1,5 | 15x0,4 |
| 15          | 15.            | from Ø100-until ∞ (steplesly)  | .04            | .30                | /K130   | 9                | 130 | 50 | 160 | 2   | 15x0,4 |
| 15          | 25.            | from Ø100-until ∞ (steplesly)  | .04            | .30                | /K130   | 9                | 130 | 50 | 160 | 2   | 25x0,4 |
| 15          | 15.            | from Ø150-until ∞ (steplesly)  | .04            | .30                | /K170   | 9                | 170 | 50 | 200 | 2   | 15x0,4 |
| 15          | 25.            | from Ø150-until ∞ (steplesly)  | .04            | .30                | /K170   | 9                | 170 | 50 | 200 | 2   | 25x0,4 |
| 15          | 15.            | from Ø200-until ∞ (steplesly)  | .04            | .30                | /K220   | 9                | 220 | 50 | 250 | 2   | 15x0,4 |
| 15          | 25.            | from Ø200-until ∞ (steplesly)  | .04            | .30                | /K220   | 9                | 220 | 50 | 250 | 2   | 25x0,4 |

Further combinations are possible

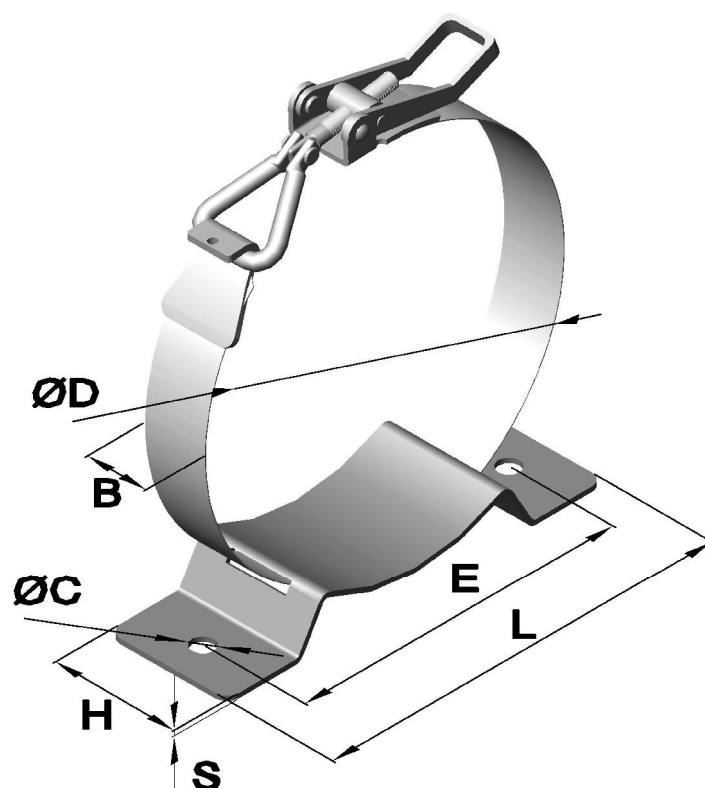


## Tension bands and hose clamps

### Hose clamps „Series 1601“ with console

Combination-example:

- latch 3015.33RF-1/MOD
- strike 1301.GEGENHAKEN.33
- band 25x0,4mm
- tension band with console 120/4.33MOD
- triangle



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no.   |                |    |                    |         | Dimensions in mm |      |     |    |     |     |   |        |
|---------------|----------------|----|--------------------|---------|------------------|------|-----|----|-----|-----|---|--------|
| Series        | B<br>Bandwidth | DN | Material           |         | Ø D              | U    | E   | H  | L   | Ø C | S | Band   |
|               |                |    | Raw                |         |                  |      |     |    |     |     |   |        |
|               |                |    | Stainless<br>steel | Console |                  |      |     |    |     |     |   |        |
| 1625. DN 100. |                |    | .30                | K130    | Ø 114,3          | 359  | 130 | 50 | 160 | 9   | 2 | 25x0,4 |
| 1625. DN 125. |                |    | .30                | K130    | Ø 139,7          | 439  | 130 | 50 | 160 | 9   | 2 | 25x0,4 |
| 1625. DN 150. |                |    | .30                | K130    | Ø 168,3          | 529  | 130 | 50 | 160 | 9   | 2 | 25x0,4 |
| 1625. DN 200. |                |    | .30                | K170    | Ø 219,1          | 688  | 170 | 50 | 200 | 9   | 2 | 25x0,4 |
| 1625. DN 250. |                |    | .30                | K170    | Ø 273,0          | 858  | 170 | 50 | 200 | 9   | 2 | 25x0,4 |
| 1625. DN 300. |                |    | .30                | K170    | Ø 323,9          | 1018 | 170 | 50 | 200 | 9   | 2 | 25x0,4 |

Further combinations are possible

## Tension bands and hose clamps

Hose clamps „Series 1601“  
with console

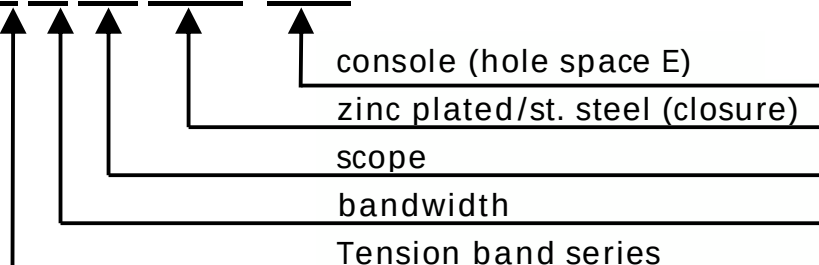
Combination-example:

- latch 3015.04
- strike 3608.04
- band 25x0,4mm
- tension band with console K130



Order example:

Art.no 16 25.100.04/30 /K130



| Article no. |                |                                      |                |                    |         | Dimensions in mm |     |    |     |     |        |
|-------------|----------------|--------------------------------------|----------------|--------------------|---------|------------------|-----|----|-----|-----|--------|
| Series      | B<br>Bandwidth | Ø D                                  | Material       |                    |         | Ø C              | E   | H  | L   | S   | Band   |
|             |                |                                      | Zinc<br>plated | Stainless<br>steel | Console |                  |     |    |     |     |        |
| 16          | 15.            | from Ø60-untill Ø120<br>(stepplesly) | .04            | .30                | /K46    | 5                | 46  | 25 | 56  | 1,5 | 15x0,4 |
| 16          | 15.            | from Ø100-untill ∞ (stepplesly)      | .04            | .30                | /K130   | 9                | 130 | 50 | 160 | 2   | 15x0,4 |
| 16          | 20.            | from Ø100-untill ∞ (stepplesly)      | .04            | .30                | /K130   | 9                | 130 | 50 | 160 | 2   | 20x0,4 |
| 16          | 25.            | from Ø100-untill ∞ (stepplesly)      | .04            | .30                | /K130   | 9                | 130 | 50 | 160 | 2   | 25x0,4 |
| 16          | 15.            | from Ø150-untill ∞ (stepplesly)      | .04            | .30                | /K170   | 9                | 170 | 50 | 200 | 2   | 15x0,4 |
| 16          | 20.            | from Ø150-untill ∞ (stepplesly)      | .04            | .30                | /K170   | 9                | 170 | 50 | 200 | 2   | 20x0,4 |
| 16          | 25.            | from Ø150-untill ∞ (stepplesly)      | .04            | .30                | /K170   | 9                | 170 | 50 | 200 | 2   | 25x0,4 |
| 16          | 15.            | from Ø200-untill ∞ (stepplesly)      | .04            | .30                | /K220   | 9                | 220 | 50 | 250 | 2   | 15x0,4 |
| 16          | 20.            | from Ø200-untill ∞ (stepplesly)      | .04            | .30                | /K220   | 9                | 220 | 50 | 250 | 2   | 20x0,4 |
| 16          | 25.            | from Ø200-untill ∞ (stepplesly)      | .04            | .30                | /K220   | 9                | 220 | 50 | 250 | 2   | 25x0,4 |

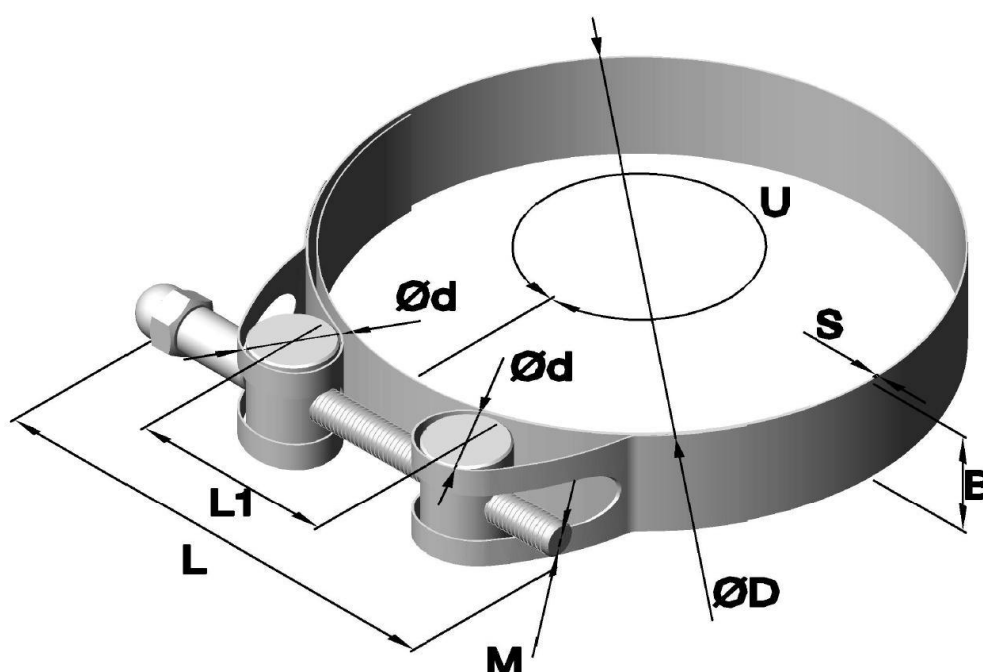
Further combinations are possible

## Tension bands and hose clamps

### Hinge bolt tension band „Series 1701“

#### Combination-example:

- band 30x0,4mm
- bolt Ø20x30mm
- threaded rod M8x120mm



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |    |                        | Dimensions in mm |      |    |     |    |    |                |
|-------------|----------------|----|------------------------|------------------|------|----|-----|----|----|----------------|
| Series      | B<br>Bandwidth | DN | Material               | Ø D              | U    | d  | L   | L1 | M  | S<br>Thickness |
|             |                |    | Raw<br>Stainless steel |                  |      |    |     |    |    |                |
| 1730.       | DN 100.        | 30 |                        | Ø 114,3          | 359  | 20 | 120 | 50 | M8 | 0,4            |
| 1730.       | DN 125.        | 30 |                        | Ø 139,7          | 439  | 20 | 120 | 50 | M8 | 0,4            |
| 1730.       | DN 150.        | 30 |                        | Ø 168,3          | 529  | 20 | 120 | 50 | M8 | 0,4            |
| 1730.       | DN 200.        | 30 |                        | Ø 219,1          | 688  | 20 | 120 | 50 | M8 | 0,4            |
| 1730.       | DN 250.        | 30 |                        | Ø 273,0          | 858  | 20 | 120 | 50 | M8 | 0,4            |
| 1730.       | DN 300.        | 30 |                        | Ø 323,9          | 1018 | 20 | 120 | 50 | M8 | 0,4            |

Further combinations are possible

## Tension bands and hose clamps

### Hinge bolt tension band „Series 1701“

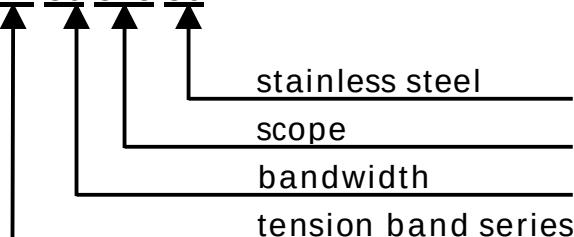
Combination-example:

- band 25x0,4mm
- bolt Ø20x25mm
- threaded rod M8x120mm



Order example:

Art.no 17 30.315.30



| Article no. |                     |                                |                           | Dimensions in mm |    |         |       |        |                |
|-------------|---------------------|--------------------------------|---------------------------|------------------|----|---------|-------|--------|----------------|
| Series      | B<br>Band-<br>width | U<br>Scope in mm               | Material                  | Ø D              | d  | L       | L1    | M      | S<br>Thickness |
|             |                     |                                | Raw<br>Stainless<br>steel |                  |    |         |       |        |                |
| 17          | 20.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 100-160 | 30-50 | M8/M10 | 0,4/1,0        |
| 17          | 25.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 120-160 | 30-50 | M8/M10 | 0,4/1,0        |
| 17          | 30.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 17          | 35.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 17          | 40.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 17          | 50.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |

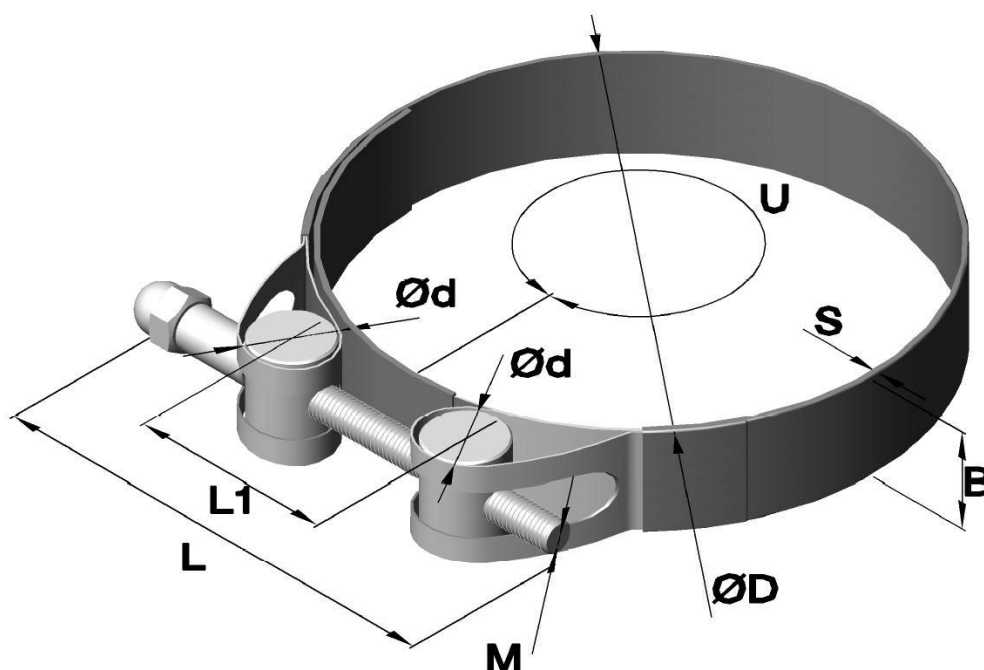
Further combinations are possible

## Tension bands and hose clamps

Hinge bolt tension band „Series 1801“  
with plastic rubber profile

Combination-example:

- band 30x0,4mm with rubber profile
- bolt Ø20x30mm 1730.QB.30/M8
- threaded rod M8x120mm



Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |    |                 | Dimensions in mm |      |    |     |    |    |                |
|-------------|----------------|----|-----------------|------------------|------|----|-----|----|----|----------------|
| Series      | B<br>Bandwidth | DN | Material        | Ø D              | U    | d  | L   | L1 | M  | S<br>Thickness |
|             |                |    | Raw             |                  |      |    |     |    |    |                |
|             |                |    | Stainless steel |                  |      |    |     |    |    |                |
| 1830.       | DN 100.        | 30 |                 | Ø 114,3          | 359  | 20 | 120 | 50 | M8 | 0,4            |
| 1830.       | DN 125.        | 30 |                 | Ø 139,7          | 439  | 20 | 120 | 50 | M8 | 0,4            |
| 1830.       | DN 150.        | 30 |                 | Ø 168,3          | 529  | 20 | 120 | 50 | M8 | 0,4            |
| 1830.       | DN 200.        | 30 |                 | Ø 219,1          | 688  | 20 | 120 | 50 | M8 | 0,4            |
| 1830.       | DN 250.        | 30 |                 | Ø 273,0          | 858  | 20 | 120 | 50 | M8 | 0,4            |
| 1830.       | DN 300.        | 30 |                 | Ø 323,9          | 1018 | 20 | 120 | 50 | M8 | 0,4            |

Further combinations are possible

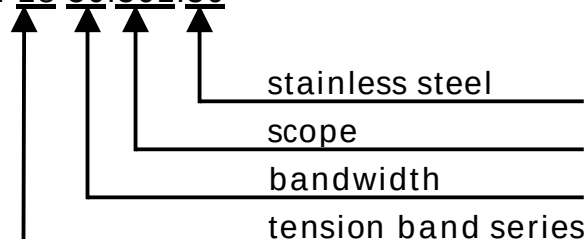
## Tension bands and hose clamps

Hinge bolt tension band „Series 1801“  
with rubber profile



Order example:

Art.no. 18 30.361.30



| Article no. |                     |                                |                           | Dimensions in mm |    |         |       |        |                |
|-------------|---------------------|--------------------------------|---------------------------|------------------|----|---------|-------|--------|----------------|
| Series      | B<br>Band-<br>width | U<br>Scope in mm               | Material                  | Ø D              | d  | L       | L1    | M      | S<br>Thickness |
|             |                     |                                | Raw<br>Stainless<br>steel |                  |    |         |       |        |                |
| 18          | 20.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 100-160 | 30-50 | M8/M10 | 0,4/1,0        |
| 18          | 25.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 120-160 | 30-50 | M8/M10 | 0,4/1,0        |
| 18          | 30.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 18          | 35.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 18          | 40.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |
| 18          | 50.                 | from 315-untill ∞ (stepplesly) | .30                       | from Ø100- ∞     | 20 | 160     | 30-50 | M8/M10 | 0,4/1,0        |



## Tension bands and hose clamps

### Hinge bolt tension band „Series 1901“ type1 with console

#### Combination-example:

- band 25x0,4mm
- bolt Ø20x25mm
- threaded rod M8x120mm

#### Order example:

Art.no 19 25 100.30 / K130

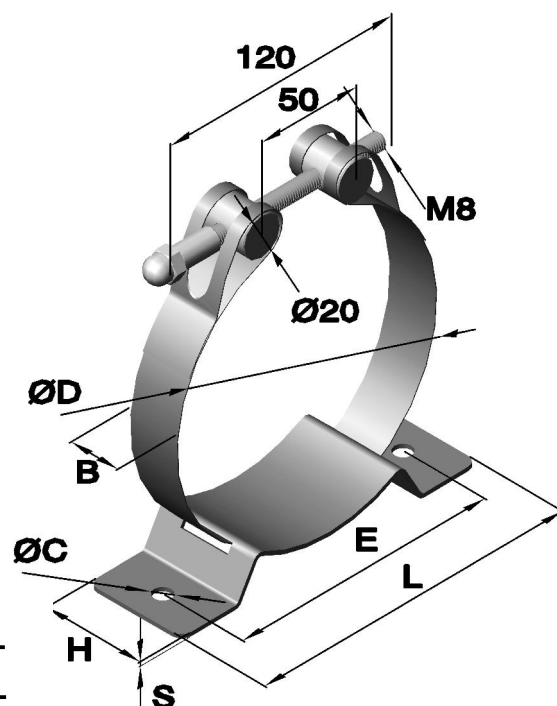
console (hole space "E")

stainless steel

scope

bandwidth

tension band series



| Article no. |                |                                |                    |                  | Dimensions in mm |     |    |     |   |        |
|-------------|----------------|--------------------------------|--------------------|------------------|------------------|-----|----|-----|---|--------|
| Series      | B<br>Bandwidth | Ø D                            | Material           |                  | Ø C              | E   | H  | L   | S | Band   |
|             |                |                                | Stainless<br>steel | Console/<br>Type |                  |     |    |     |   |        |
| 19          | 20.            | from Ø100-until ∞ (stepplesly) | .30                | /K130/1          | 9                | 130 | 50 | 160 | 2 | 20x0,4 |
| 19          | 25.            | from Ø100-until ∞ (stepplesly) | .30                | /K130/1          | 9                | 130 | 50 | 160 | 2 | 25x0,4 |
| 19          | 20.            | from Ø150-until ∞ (stepplesly) | .30                | /K170/1          | 9                | 170 | 50 | 200 | 2 | 20x0,4 |
| 19          | 25.            | from Ø150-until ∞ (stepplesly) | .30                | /K170/1          | 9                | 170 | 50 | 200 | 2 | 25x0,4 |
| 19          | 20.            | from Ø200-until ∞ (stepplesly) | .30                | /K220/1          | 9                | 220 | 50 | 250 | 2 | 20x0,4 |
| 19          | 25.            | from Ø200-until ∞ (stepplesly) | .30                | /K220/1          | 9                | 220 | 50 | 250 | 2 | 25x0,4 |

Standard dimensions in accordance with DN (Diameter Nominal)

| Article no.         |                |    |                 | Dimensions in mm |      |              |    |     |    |    |        |
|---------------------|----------------|----|-----------------|------------------|------|--------------|----|-----|----|----|--------|
| Series              | B<br>Bandwidth | DN | Material        | Ø D              | U    | E<br>Console | d  | L   | L1 | M  | Band   |
|                     |                |    | Raw             |                  |      |              |    |     |    |    |        |
|                     |                |    | Stainless steel |                  |      |              |    |     |    |    |        |
| 1925. DN 100. 30/01 |                |    |                 | Ø 114,3          | 359  | 130          | 20 | 120 | 50 | M8 | 25x0,4 |
| 1925. DN 125. 30/01 |                |    |                 | Ø 139,7          | 439  | 130          | 20 | 120 | 50 | M8 | 25x0,4 |
| 1925. DN 150. 30/01 |                |    |                 | Ø 168,3          | 529  | 170          | 20 | 120 | 50 | M8 | 25x0,4 |
| 1925. DN 200. 30/01 |                |    |                 | Ø 219,1          | 688  | 170          | 20 | 120 | 50 | M8 | 25x0,4 |
| 1925. DN 250. 30/01 |                |    |                 | Ø 273,0          | 858  | 220          | 20 | 120 | 50 | M8 | 25x0,4 |
| 1925. DN 300. 30/01 |                |    |                 | Ø 323,9          | 1018 | 220          | 20 | 120 | 50 | M8 | 25x0,4 |

Further combinations are possible

## Tension bands and hose clamps

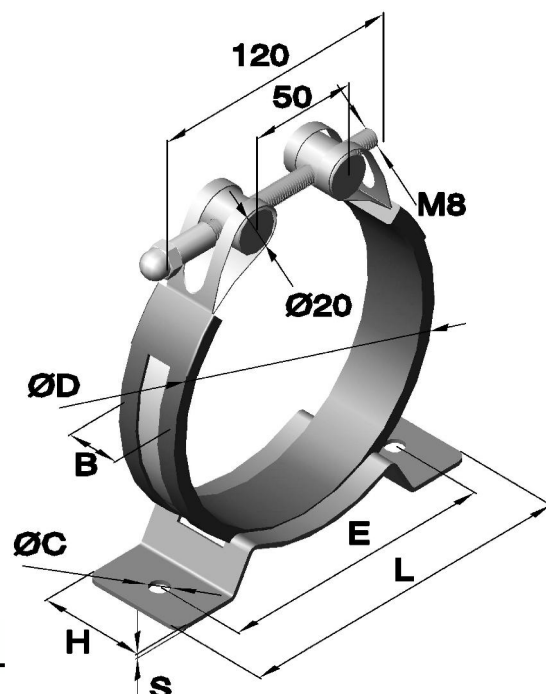
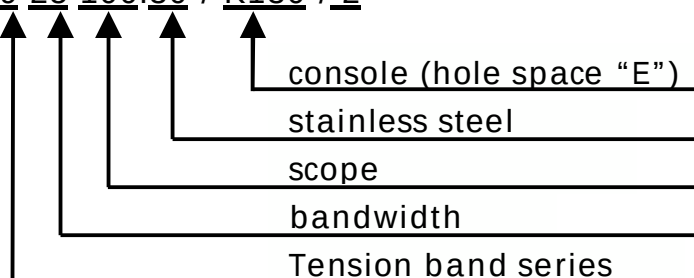
### Hinge bolt tension band „Series 1901“ type 2 with console and C-rubber profile

Combination-example:

- band 25x0,4mm
- bolt Ø20x25mm 1725.QB.30/M8
- threaded rod M8x120mm

Order example:

Art.no 19 25 100.30 / K130 / 2



| Article no. |                |                                 |                    |              | Dimensions in mm |     |    |     |   |        |
|-------------|----------------|---------------------------------|--------------------|--------------|------------------|-----|----|-----|---|--------|
| Series      | B<br>Bandwidth | Ø D                             | Material           |              | Ø C              | E   | H  | L   | S | Band   |
|             |                |                                 | Stainless<br>steel | Console/Type |                  |     |    |     |   |        |
| 19          | 25.            | from Ø100-untill ∞ (stepplesly) | .30                | /K130/2      | 9                | 130 | 50 | 160 | 2 | 25x0,4 |
| 19          | 25.            | from Ø150-untill ∞ (stepplesly) | .30                | /K170/2      | 9                | 170 | 50 | 200 | 2 | 25x0,4 |
| 19          | 25.            | from Ø200-untill ∞ (stepplesly) | .30                | /K220/2      | 9                | 220 | 50 | 250 | 2 | 25x0,4 |

Standard dimensions in accordance with DN (Diameter Nominal)

| Article no. |                |         |                 | Dimensions in mm |      |              |    |     |    |    |        |
|-------------|----------------|---------|-----------------|------------------|------|--------------|----|-----|----|----|--------|
| Series      | B<br>Bandwidth | DN      | Material        | Ø D              | U    | E<br>Console | d  | L   | L1 | M  | Band   |
|             |                |         | Raw             |                  |      |              |    |     |    |    |        |
|             |                |         | Stainless steel |                  |      |              |    |     |    |    |        |
|             | 1925.          | DN 100. | 30/02           | Ø 114,3          | 359  | 130          | 20 | 120 | 50 | M8 | 25x0,4 |
|             | 1925.          | DN 125. | 30/02           | Ø 139,7          | 439  | 130          | 20 | 120 | 50 | M8 | 25x0,4 |
|             | 1925.          | DN 150. | 30/02           | Ø 168,3          | 529  | 170          | 20 | 120 | 50 | M8 | 25x0,4 |
|             | 1925.          | DN 200. | 30/02           | Ø 219,1          | 688  | 170          | 20 | 120 | 50 | M8 | 25x0,4 |
|             | 1925.          | DN 250. | 30/02           | Ø 273,0          | 858  | 220          | 20 | 120 | 50 | M8 | 25x0,4 |
|             | 1925.          | DN 300. | 30/02           | Ø 323,9          | 1018 | 220          | 20 | 120 | 50 | M8 | 25x0,4 |

Further combinations are possible

# Tension bands and hose clamps

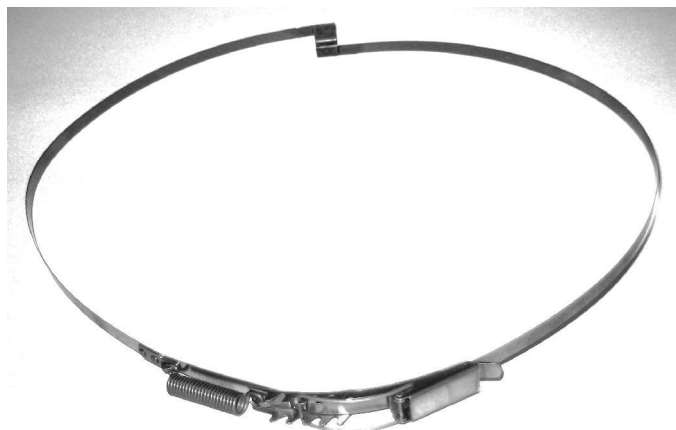
## Tension band „Special construction “

Tension band „Series 1301“



# Tension bands and hose clamps

Tension band „Series 1201“ with spring  
with offset for spiral hose



Tension band „Series 1201“  
without spring



Hose clamps „Series 1501“  
with console and C-rubber profile e.g. for hose clamps according to customer requirements



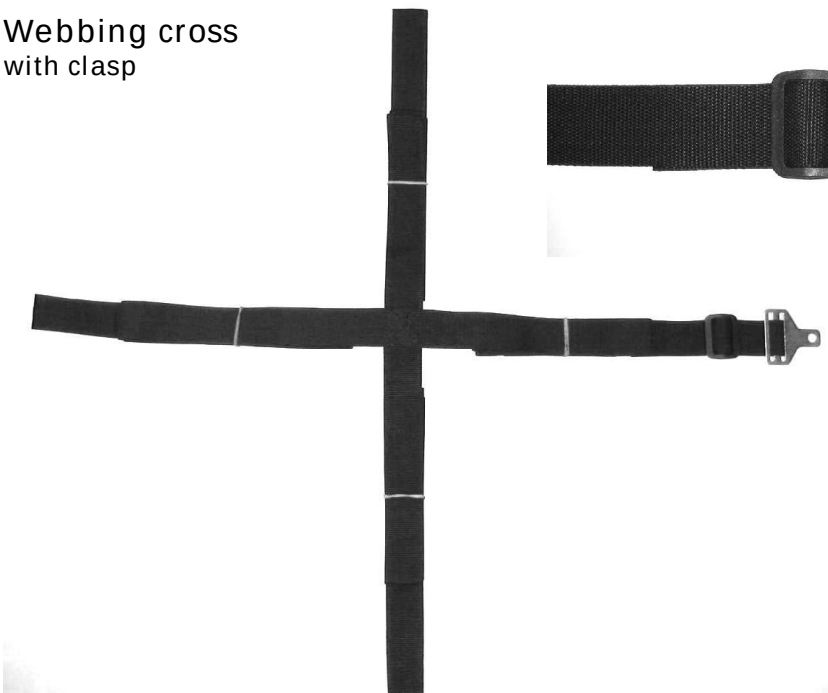
## Tension bands and hose clamps

Further combinations are possible



## Webbings

Webbing cross  
with clasp



Webbing  
with latch with R-Pin



Webbing  
with clasp



Further combinations are possible





## „BAND-IT“ Tension bands and Cable ties





## „BAND-IT“

### Tension bands and Cable ties

Tension band „Series 1101“  
„BAND-FAST“ pre-cut and assembled  
with „VALU-CLIP“

Material and surface finish:  
Raw, stainless steel (V2A)



| Article no. |           |                 | Dimensions in mm |           |        |                  |             | Package quantity |
|-------------|-----------|-----------------|------------------|-----------|--------|------------------|-------------|------------------|
| Series      | Execution | Material        | Width            | Thickness | Length | Maximum Diameter |             |                  |
|             |           | Stainless steel |                  |           |        | Single Wrap      | Double Wrap |                  |
|             |           | V2A             |                  |           |        |                  |             |                  |
| 1101        | .L 20499  | .30             | 6.4              | 0.51      | 400    | 88               | 38          | 100/St.          |
| 1101        | .L 20799  | .30             | 6.4              | 0.51      | 480    | 127              | 63          | 100/St.          |
| 1101        | .L 20899  | .30             | 6.4              | 0.51      | 680    | 177              | 88          | 100/St.          |
| 1101        | .L 21099  | .30             | 6.4              | 0.51      | 860    | 228              | 114         | 100/St.          |
| 1101        | .L 22199  | .30             | 9.6              | 0.64      | 400    | 88               | 38          | 100/St.          |
| 1101        | .L 22999  | .30             | 9.6              | 0.64      | 1120   | 305              | 152         | 25/St.           |
| 1101        | .L 24299  | .30             | 12.7             | 0.76      | 450    | 102              | 50          | 100/St.          |
| 1101        | .L 24699  | .30             | 12.7             | 0.76      | 780    | 203              | 101         | 25/St.           |
| 1101        | .L 26399  | .30             | 15.9             | 0.76      | 530    | 127              | 63          | 100/St.          |
| 1101        | .L 27199  | .30             | 15.9             | 0.76      | 1420   | 406              | 203         | 25/St.           |
| 1101        | .L 27399  | .30             | 15.9             | 0.76      | 1930   | 508              | 175         | 25/St.           |
| 1101        | .L 28499  | .30             | 19.1             | 0.76      | 600    | 152              | 76          | 50/St.           |
| 1101        | .L 28899  | .30             | 19.1             | 0.76      | 930    | 254              | 127         | 25/St.           |
| 1101        | .L 29099  | .30             | 19.1             | 0.76      | 1270   | 355              | 177         | 25/St.           |
| 1101        | .L 29299  | .30             | 19.1             | 0.76      | 1570   | 457              | 228         | 25/St.           |

By greater dimensions we recommend our endless belt with loose catches.

| Situation as of delivery | Single Wrap<br>for lubricated surfaces | Double Wrap<br>for non-lubricated surfaces |
|--------------------------|----------------------------------------|--------------------------------------------|
|                          |                                        |                                            |

## „BAND-IT“ Spannbänder und Kabelbinder

| Clamping tools<br>for „Series 1101“                                                |                                                                                    |                                                                                      |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Art. no.: C 00189                                                                  | Art. no.: C 00369                                                                  | Art. no.: C 07569<br>„Bantam“                                                        |
|   |   |   |
| Art. no.: C 40099<br>„ratchet“                                                     | Art. no.: C 08599<br>„Bantam-ratchet“                                              | Art. no.: J 02069<br>max. width up to 9.6 mm                                         |
|  |  |  |

| How to use it<br>Art. no.: C 07569<br>„Bantam“                                      |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 1. Pull the band through the catch<br>2. Insert in the tool                         | 3. Tense it with the ratchet                                                         | 4. Bend it in the opposite direction<br>5. Cut off<br>6. Clamp                        |

## „BAND-IT“

### Tension bands and Cable ties

#### Endless belt „Series 1101“

„VALUSTRAP“ for loose „VALU-CLIPS“

Material and surface finish:

Raw stainless steel (V2A)

| Article no. |           | Dimensions in mm |       |               | Package quantity in m/roll |
|-------------|-----------|------------------|-------|---------------|----------------------------|
| Series      | Execution | Material         | Width | Thickn<br>ess |                            |
|             |           | Raw<br>V2A       |       |               |                            |
| 1101        | .C 13199  | .30              | 4.8   | 0.38          | 30.5 m                     |
| 1101        | .C 13399  | .30              | 9.6   | 0.38          | 30.5 m                     |
| 1101        | .C 13499  | .30              | 12.7  | 0.38          | 30.5 m                     |
| 1101        | .C 13599  | .30              | 15.9  | 0.38          | 30.5 m                     |
| 1101        | .C 13699  | .30              | 19.1  | 0.38          | 30.5 m                     |
| 1101        | .C 19199  | .30              | 9.6   | 0.51          | 30.5 m                     |
| 1101        | .C 18189  | .30              | 12.7  | 0.51          | 30.5 m                     |
| 1101        | .C 17199  | .30              | 15.9  | 0.51          | 30.5 m                     |
| 1101        | .C 16189  | .30              | 19.1  | 0.51          | 30.5 m                     |
| 1101        | .C 19399  | .30              | 9.6   | 0.51          | 61 m                       |
| 1101        | .C 18389  | .30              | 12.7  | 0.51          | 61 m                       |
| 1101        | .C 17399  | .30              | 15.9  | 0.51          | 61 m                       |
| 1101        | .C 16389  | .30              | 19.1  | 0.51          | 61 m                       |
| 1101        | .C 14499  | .30              | 12.7  | 0.64          | 30.5 m                     |
| 1101        | .C 14599  | .30              | 15.9  | 0.64          | 30.5 m                     |
| 1101        | .C 14699  | .30              | 19.1  | 0.64          | 30.5 m                     |
| 1101        | .C 14899  | .30              | 12.7  | 0.64          | 61 m                       |
| 1101        | .C 14999  | .30              | 15.9  | 0.64          | 61 m                       |
| 1101        | .C 15099  | .30              | 19.1  | 0.64          | 61 m                       |
| 1101        | .C 92399  | .30              | 9.6   | 0.63          | 30.5 m                     |
| 1101        | .C 92499  | .30              | 12.7  | 0.76          | 30.5 m                     |
| 1101        | .C 92599  | .30              | 15.9  | 0.76          | 30.5 m                     |
| 1101        | .C 92699  | .30              | 19.1  | 0.76          | 30.5 m                     |



#### Loose Lock-Clips „Series 1101“

„VALU-CLIPS“ for endless belts

Material and surface finish:

Raw stainless steel (1.4301)

| Article no. |           |          | Dimensions in mm |           | Package quantity |
|-------------|-----------|----------|------------------|-----------|------------------|
| Series      | Execution | Material |                  |           |                  |
|             |           | Raw      | Width            | Thickness |                  |
| V2A         |           |          |                  |           |                  |
| 1101        | .C 15199  | .30      | 4.8              | 0.8       | 100/St.          |
| 1101        | .C 15399  | .30      | 9.6              | 0.8       | 100/St.          |
| 1101        | .C 15499  | .30      | 12.7             | 0.8       | 100/St.          |
| 1101        | .C 15599  | .30      | 15.9             | 0.8       | 100/St.          |
| 1101        | .C 15699  | .30      | 19.1             | 0.8       | 100/St.          |
| 1101        | .C 25299  | .30      | 6.4              | 1.0       | 100/St.          |
| 1101        | .L 15399  | .30      | 9.6              | 1.0       | 100/St.          |
| 1101        | .L 15499  | .30      | 12.7             | 1.0       | 100/St.          |
| 1101        | .L 15599  | .30      | 15.9             | 1.0       | 100/St.          |
| 1101        | .L 15699  | .30      | 19.1             | 1.0       | 100/St.          |



Further materials and surface finishes on demand. We will be pleased to give you advice.

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[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)

## „BAND-IT“ Spannbänder und Kabelbinder

Endless belt „Series 1101“  
„VALUSTRAP“ for loose „VALU-CLIPS“

Material and surface finish:  
Raw stainless steel (V4A)



| Article no. |            |          | Dimensions in mm |           | Package quantity in<br>m/roll |
|-------------|------------|----------|------------------|-----------|-------------------------------|
| Series      | Execution  | Material | Width            | Thickness |                               |
|             |            | Raw      |                  |           |                               |
|             |            | V4A      |                  |           |                               |
| 1101        | .C 40299   | .35      | 6,4              | 0,51      | 30,5m                         |
| 1101        | .C 40399   | .35      | 9,6              | 0,64      | 30,5m                         |
| 1101        | .C 403 Y 9 | .35      | 9,6              | 0,64      | 30,5m with yellow bracket     |
| 1101        | .C 40499   | .35      | 12,7             | 0,76      | 30,5m                         |
| 1101        | .C 404 B 9 | .35      | 12,7             | 0,76      | 30,5m with blue bracket       |
| 1101        | .C 40599   | .35      | 15,9             | 0,76      | 30,5m                         |
| 1101        | .C 405 G 9 | .35      | 15,9             | 0,76      | 30,5m with green bracket      |
| 1101        | .C 40699   | .35      | 19,1             | 0,76      | 30,5m                         |
| 1101        | .C 406 R 9 | .35      | 19,1             | 0,76      | 30,5m with red bracket        |
| 1101        | .C 44499   | .35      | 12,7             | 0,38      | 61m                           |
| 1101        | .C 444 B 9 | .35      | 12,7             | 0,38      | 61m with blue bracket         |
| 1101        | .C 44599   | .35      | 15,9             | 0,38      | 61m                           |
| 1101        | .C 445 G 9 | .35      | 15,9             | 0,38      | 61m with green bracket        |
| 1101        | .C 44699   | .35      | 19,1             | 0,38      | 61m                           |
| 1101        | .C 446 R 9 | .35      | 19,1             | 0,38      | 61m with red bracket          |



Loose Lock-Clips „Series 1101“  
„VALU-CLIPS“ for endless belts

Material and surface finish:  
Raw stainless steel (V4A)

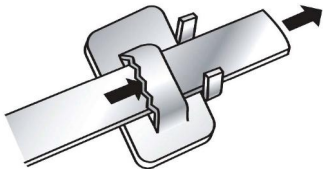
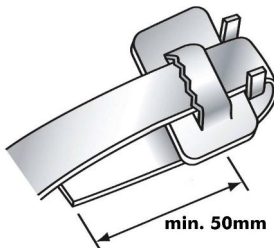
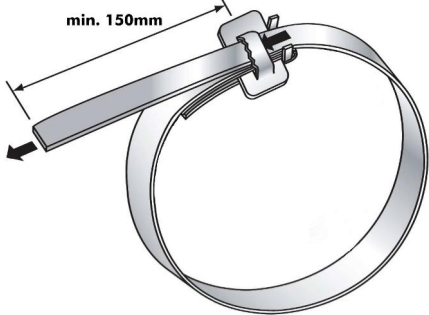
| Article no. |           |          | Dimensions in mm |           | Package quantity |
|-------------|-----------|----------|------------------|-----------|------------------|
| Series      | Execution | Material |                  |           |                  |
|             |           | raw      | Width            | Thickness |                  |
|             |           | V4A      |                  |           |                  |
| 1101        | .AE4529   | .35      | 6,4              | 1,0       | 100/St.          |
| 1101        | .AE4539   | .35      | 9,6              | 1,0       | 100/St.          |
| 1101        | .AE4549   | .35      | 12,7             | 1,0       | 100/St.          |
| 1101        | .AE4559   | .35      | 15,9             | 1,0       | 100/St.          |
| 1101        | .AE4569   | .35      | 19,1             | 1,0       | 100/St.          |





## „BAND-IT“

### Tension bands and Cable ties

| Push the band through the catch                                                   | Bend it down                                                                      | Push the band through the catch<br>Single wrap                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |  |

| Clamping tools for „Series 1101“                                                    |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Art. no.: C 00189                                                                   | Art. no.: C 00369                                                                   | Art. no.: C 07569<br>„Bantam“                                                         |
|   |   |   |
| Art. no.: C 40099<br>„Ratchet“                                                      | Art. no.: C 08599<br>„Bantam-Ratchet“                                               | Art. no.: J 02069<br>max. width bis 9.6 mm                                            |
|  |  |  |

| How to use it<br>Art. no.: C 07569 „Bantam“                                         |                                                                                      |                                                                                       |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 1. Pull the band through the catch<br>2. Insert in the tool                         | 3. Tense it with the ratchet                                                         | 4. Nod it in the opposite direction<br>5. Cut it off<br>6. Clamp it                   |

## „BAND-IT“ Spannbänder und Kabelbinder

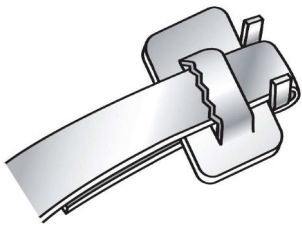
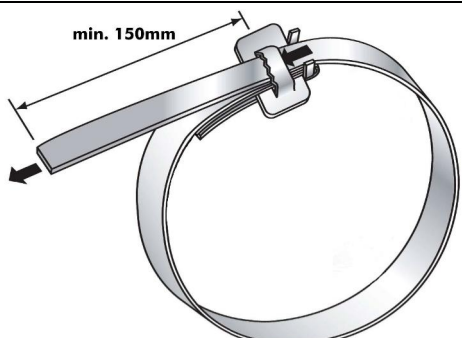
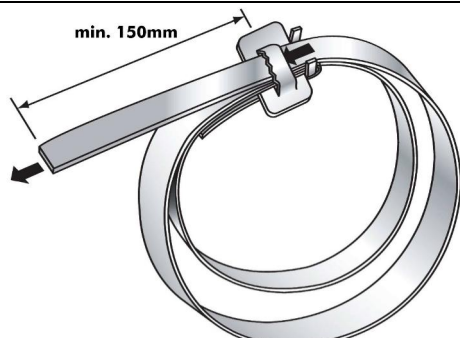
Tension band „Series 1102“  
„BAND-FAST“ pre-cut with  
assembled „EAR-LOK loop“

Material and surface finish:  
Raw stainless steel (V2A)



| Article no. |             |          | Dimensions in mm |           |        |                  |             | Package quantity |
|-------------|-------------|----------|------------------|-----------|--------|------------------|-------------|------------------|
| Series      | Execution   | Material | Width            | Thickness | Length | Maximum Diameter |             |                  |
|             |             | Raw      |                  |           |        | Single Wrap      | Double Wrap |                  |
|             |             | V2A      |                  |           |        |                  |             |                  |
| 1102        | .A 0830-020 | .30      | 12.7             | 0.76      | 510    | 102              | 51          | 25/St            |
| 1102        | .A 0830-024 | .30      | 12.7             | 0.76      | 610    | 127              | 64          | 25/St            |
| 1102        | .A 0830-027 | .30      | 12.7             | 0.76      | 690    | 152              | 76          | 25/St            |
| 1102        | .A 0830-034 | .30      | 12.7             | 0.76      | 860    | 203              | 102         | 25/St            |
| 1102        | .A 0830-041 | .30      | 12.7             | 0.76      | 1040   | 254              | 127         | 25/St            |
| 1102        | .A 0830-048 | .30      | 12.7             | 0.76      | 1220   | 305              | 152         | 25/St            |
| 1102        | .A 0830-055 | .30      | 12.7             | 0.76      | 1400   | 356              | 178         | 25/St            |
| 1102        | .A 0830-069 | .30      | 12.7             | 0.76      | 1750   | 457              | 229         | 25/St            |
| 1102        | .A 0830-076 | .30      | 12.7             | 0.76      | 1930   | 508              | 254         | 15/St            |
| 1102        | .A 0830-090 | .30      | 12.7             | 0.76      | 2290   | 610              | 305         | 15/St            |
| 1102        | .A 1230-020 | .30      | 19.1             | 0.76      | 510    | 102              | 51          | 25/St            |
| 1102        | .A 1230-024 | .30      | 19.1             | 0.76      | 610    | 127              | 64          | 25/St            |
| 1102        | .A 1230-027 | .30      | 19.1             | 0.76      | 690    | 152              | 76          | 25/St            |
| 1102        | .A 1230-034 | .30      | 19.1             | 0.76      | 860    | 203              | 102         | 25/St            |
| 1102        | .A 1230-041 | .30      | 19.1             | 0.76      | 1040   | 254              | 127         | 25/St            |
| 1102        | .A 1230-048 | .30      | 19.1             | 0.76      | 1220   | 305              | 152         | 25/St            |
| 1102        | .A 1230-055 | .30      | 19.1             | 0.76      | 1400   | 356              | 178         | 25/St            |
| 1102        | .A 1230-069 | .30      | 19.1             | 0.76      | 1750   | 457              | 229         | 25/St            |
| 1102        | .A 1230-076 | .30      | 19.1             | 0.76      | 1930   | 508              | 254         | 15/St            |
| 1102        | .A 1230-090 | .30      | 19.1             | 0.76      | 2290   | 610              | 305         | 15/St            |

By greater dimensions we recommend our endless belts with loose catches.

| Situation as of delivery                                                            | Single Wrap<br>for lubricated surfaces                                              | Double Wrap<br>for non-lubricated surfaces                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |



## „BAND-IT“

### Tension bands and Cable ties

#### Clamping tools for „Series 1102“

Art. no.: C 00189



Art. no.: C 00369



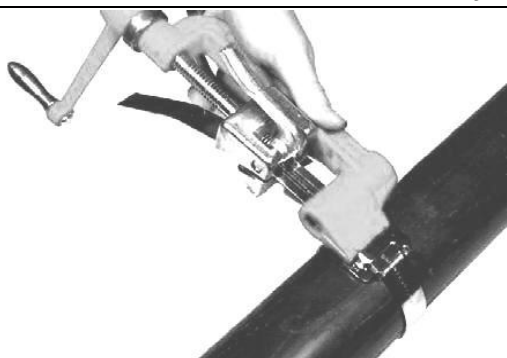
Art. no.: C 40099



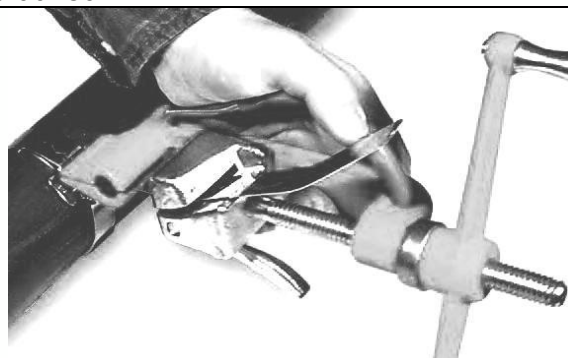
Art. no.: C 08599  
„Bantam-Ratchet“



#### How to use it Art. no.: C 00189



1. Pull the band through the catch
2. Insert in the tool



3. Tense it with the ratchet



3. Nod it in the opposite direction
4. Cut it off



5. Clamp it

## „BAND-IT“ Spannbänder und Kabelbinder

Endless belt „Series 1102“  
„BAND-IT Band“ for loose „EAR-LOK loop“

Material and surface finish:  
Raw stainless steel (V2A)

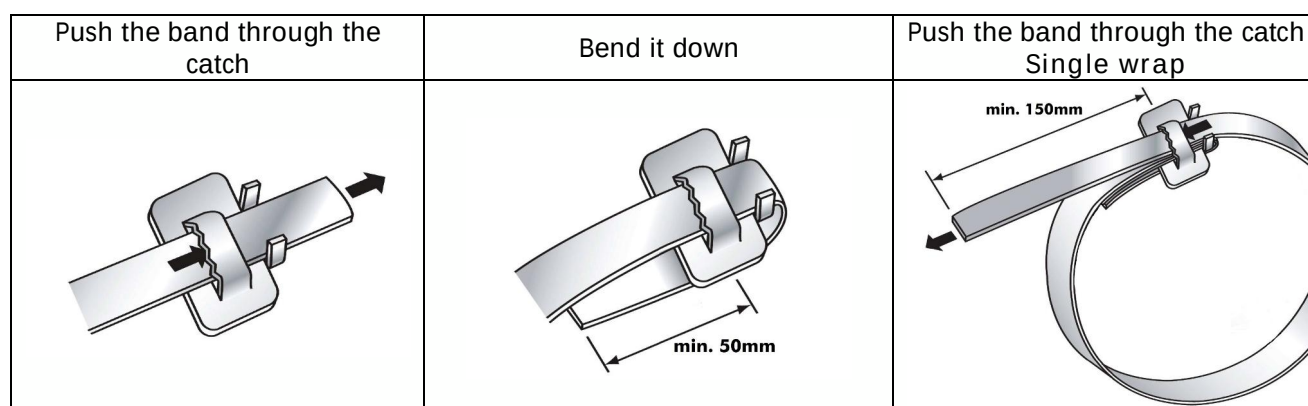
| Article no. |           |            | Dimensions in mm |           | Package quantity in<br>m/roll |
|-------------|-----------|------------|------------------|-----------|-------------------------------|
| Series      | Execution | Material   | Width            | Thickness |                               |
|             |           | Raw<br>V2A |                  |           |                               |
| 1102        | .C 20229  | .30        | 6.4              | 0.51      | 30.5 m                        |
| 1102        | .C 20399  | .30        | 9.6              | 0.64      | 30.5 m                        |
| 1102        | .C 203Y9  | .30        | 9.6              | 0.64      | 30.5 m with yellow bracket    |
| 1102        | .C 20499  | .30        | 12.7             | 0.76      | 30.5 m                        |
| 1102        | .C 204B9  | .30        | 12.7             | 0.76      | 30.5 m with blue bracket      |
| 1102        | .C 20599  | .30        | 15.9             | 0.76      | 30.5 m                        |
| 1102        | .C 205G9  | .30        | 15.9             | 0.76      | 30.5 m with green bracket     |
| 1102        | .C 20699  | .30        | 19.1             | 0.76      | 30.5 m                        |
| 1102        | .C 206R9  | .30        | 19.1             | 0.76      | 30.5 m with red bracket       |
| 1102        | .G 43099  | .30        | 19.1             | 1.1       | 30.5 m                        |
| 1102        | .G 43199  | .30        | 25.4             | 1.1       | 30.5 m                        |
| 1102        | .G 43299  | .30        | 31.8             | 1.1       | 30.5 m                        |



Loose catching-loop „Series 1102“  
„EAR-LOK loop“ for endless belts

Material and surface finish:  
Raw stainless steel (V2A)

| Article no. |           |          | Dimensions in mm |           | Package quantity |
|-------------|-----------|----------|------------------|-----------|------------------|
| Series      | Execution | Material |                  |           |                  |
|             |           | Raw      | Width            | Thickness |                  |
|             |           | V2A      |                  |           |                  |
| 1102        | .C 25299  | .30      | 6.4              | 1.3       | 100/St.          |
| 1102        | .C 25399  | .30      | 9.6              | 1.3       | 100/St.          |
| 1102        | .C 25499  | .30      | 12.7             | 1.3       | 100/St.          |
| 1102        | .C 25599  | .30      | 15.9             | 1.3       | 100/St.          |
| 1102        | .C 25699  | .30      | 19.1             | 1.3       | 100/St.          |
| 1102        | .G 44099  | .30      | 19.1             | 2.3       | 25/St.           |
| 1102        | .G 44199  | .30      | 25.4             | 2.3       | 25/St.           |
| 1102        | .G 44299  | .30      | 31.8             | 2.3       | 25/St.           |



## „BAND-IT“

### Tension bands and Cable ties

#### Endless belt „Series 1102“

„BAND-IT Band“ for loose „EAR-LOK loop“

Material and surface finish:  
Raw stainless steel (V4A)

| Article no. |            | Dimensions in mm       |       |           | Package quantity in m/roll |
|-------------|------------|------------------------|-------|-----------|----------------------------|
| Series      | Execution  | Material<br>Raw<br>V4A | Width | Thickness |                            |
| 1102        | .C 40299   | .35                    | 6,4   | 0,51      | 30,5m                      |
| 1102        | .C 40399   | .35                    | 9,6   | 0,64      | 30,5m                      |
| 1102        | .C 403 Y 9 | .35                    | 9,6   | 0,64      | 30,5m with yellow bracket  |
| 1102        | .C 40499   | .35                    | 12,7  | 0,76      | 30,5m                      |
| 1102        | .C 404 B 9 | .35                    | 12,7  | 0,76      | 30,5m with blue bracket    |
| 1102        | .C 40599   | .35                    | 15,9  | 0,76      | 30,5m                      |
| 1102        | .C 405 G 9 | .35                    | 15,9  | 0,76      | 30,5m with green bracket   |
| 1102        | .C 40699   | .35                    | 19,1  | 0,76      | 30,5m                      |
| 1102        | .C 406 R 9 | .35                    | 19,1  | 0,76      | 30,5m with red bracket     |
| 1102        | .C 44499   | .35                    | 12,7  | 0,38      | 61m                        |
| 1102        | .C 444 B 9 | .35                    | 12,7  | 0,38      | 61m with blue bracket      |
| 1102        | .C 44599   | .35                    | 15,9  | 0,38      | 61m                        |
| 1102        | .C 445 G 9 | .35                    | 15,9  | 0,38      | 61m with green bracket     |
| 1102        | .C 44699   | .35                    | 19,1  | 0,38      | 61m                        |
| 1102        | .C 446 R 9 | .35                    | 19,1  | 0,38      | 61m with red bracket       |



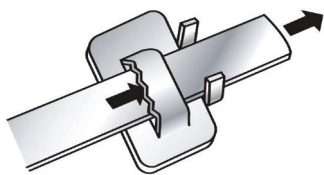
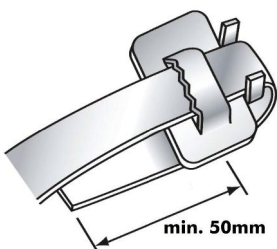
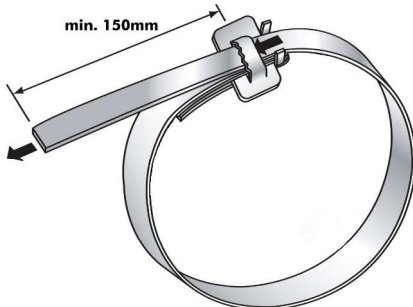
#### Loose catching-loop „Series 1102“

„EAR-LOK loop“ for endless belts

Material and surface finish:  
Raw stainless steel (V4A)

| Article no. |           | Dimensions in mm       |       |           | Package quantity |
|-------------|-----------|------------------------|-------|-----------|------------------|
| Series      | Execution | Material<br>Raw<br>V4A | Width | Thickness |                  |
| 1102        | .C 45299  | .35                    | 6,4   | 1,3       | 100/St.          |
| 1102        | .C 45399  | .35                    | 9,6   | 1,3       | 100/St.          |
| 1102        | .C 45499  | .35                    | 12,7  | 1,3       | 100/St.          |
| 1102        | .C 45599  | .35                    | 15,9  | 1,3       | 100/St.          |
| 1102        | .C 55699  | .35                    | 19,1  | 1,3       | 100/St.          |



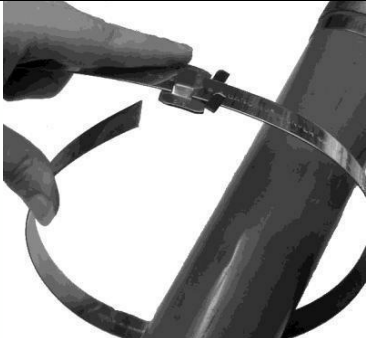
| Push the band through the catch                                                     | Bend it down                                                                        | Push the band through the catch<br>Single wrap                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

## „BAND-IT“ Spannbänder und Kabelbinder

### Clamping tools for „Series 1102“

| Art. no.: C 00189<br>up to 19.1 mm width                                           | Art. no.: C 00369<br>up to 19.1 mm width                                           | Art. no.: C 40099<br>up to 19.1 mm width                                            |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |  |  |
| Art. no.: C08599 „Bantam-Ratchet“<br>up to 19.1 mm width                           |                                                                                    | Art. no.: G40299<br>from 19.1mm width                                               |
|  |                                                                                    |  |

### How to use it Art. no.: C 00189

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |
| 1. Pull the band through the catch                                                  | 2. Nod it ca. 50 mm down                                                            | 3. Insert it in the tool, turn it with a pivot lever                                  |
|  |  |  |
| 4. Nod it in the opposite direction and cut it                                      | 5. Hold it                                                                          | 6. Jam it                                                                             |



## „BAND-IT“

### Tension bands and Cable ties

Self-closing band „Series 1103“  
„BALL-LOK“ stainless steel cable ties  
cut according to length

Material and surface finish:  
Raw stainless steel (V2A)  
Raw Stainless steel (V4A)



| Article no. |           |          |     | Dimensions in mm |           |        |               | Package quantity |
|-------------|-----------|----------|-----|------------------|-----------|--------|---------------|------------------|
| Series      | Execution | Material |     | Width            | Thickness | Length | Max. diameter |                  |
|             |           | Raw      |     |                  |           |        |               |                  |
|             |           | V2A      | V4A |                  |           |        |               |                  |
| 1103        | .KE 1128  | .30      | -   | 4.6              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 1138  | .30      | -   | 4.6              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 1148  | .30      | -   | 4.6              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 1158  | .30      | -   | 4.6              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 1168  | .30      | -   | 4.6              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 1178  | .30      | -   | 4.6              | 0.25      | 838    | 254           | 100/St.          |
| 1103        | .KE 1188  | .30      | -   | 4.6              | 0.25      | 1067   | 305           | 100/St.          |
| 1103        | .KE 0128  | -        | .35 | 4.6              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 0138  | -        | .35 | 4.6              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 0148  | -        | .35 | 4.6              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 0158  | -        | .35 | 4.6              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 0168  | -        | .35 | 4.6              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 0178  | -        | .35 | 4.6              | 0.25      | 838    | 254           | 100/St.          |
| 1103        | .KE 0188  | -        | .35 | 4.6              | 0.25      | 1067   | 305           | 100/St.          |
| 1103        | .KE 1328  | .30      | -   | 7.9              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 1338  | .30      | -   | 7.9              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 1348  | .30      | -   | 7.9              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 1358  | .30      | -   | 7.9              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 1368  | .30      | -   | 7.9              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 1378  | .30      | -   | 7.9              | 0.25      | 838    | 254           | 100/St.          |
| 1103        | .KE 1388  | .30      | -   | 7.9              | 0.25      | 1067   | 305           | 100/St.          |
| 1103        | .KE 0328  | -        | .35 | 7.9              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 0338  | -        | .35 | 7.9              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 0348  | -        | .35 | 7.9              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 0358  | -        | .35 | 7.9              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 0368  | -        | .35 | 7.9              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 0378  | -        | .35 | 7.9              | 0.25      | 838    | 254           | 100/St.          |
| 1103        | .KE 0388  | -        | .35 | 7.9              | 0.25      | 1067   | 305           | 100/St.          |

By greater dimensions we recommend our endless belts with loose catches.

Tension band „Series 1103“ may be used without a tool.



## „BAND-IT“ Spannbänder und Kabelbinder

Self closing band „Series 1103“  
„BALL-LOK“ stainless steel cable ties  
cut according to length, coated

Material and surface finish:  
Plastic coated stainless steel (V2A)



| Article no. |           |                      | Dimensions in mm |           |        |               | Package quantity |
|-------------|-----------|----------------------|------------------|-----------|--------|---------------|------------------|
| Series      | Execution | Material Coating V2A | Width            | Thickness | Length | Max. diameter |                  |
| 1103        | .KE 0228  | .37                  | 4.6              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 0238  | .37                  | 4.6              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 0248  | .37                  | 4.6              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 0258  | .37                  | 4.6              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 0268  | .37                  | 4.6              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 0278  | .37                  | 4.6              | 0.25      | 838    | 254           | 100/St.          |
| 1103        | .KE 0428  | .37                  | 7.9              | 0.25      | 201    | 50            | 100/St.          |
| 1103        | .KE 0438  | .37                  | 7.9              | 0.25      | 259    | 69            | 100/St.          |
| 1103        | .KE 0448  | .37                  | 7.9              | 0.25      | 360    | 102           | 100/St.          |
| 1103        | .KE 0458  | .37                  | 7.9              | 0.25      | 520    | 152           | 100/St.          |
| 1103        | .KE 0468  | .37                  | 7.9              | 0.25      | 679    | 203           | 100/St.          |
| 1103        | .KE 0478  | .37                  | 7.9              | 0.25      | 838    | 254           | 100/St.          |

By greater dimensions we recommend our endless belts with loose catches.

Tension band „Series 1103“ may be used without a tool.

### Clamping tools for „Series 1103“

| Art. no.: K 50289<br>Adjustable tensile strength,<br>tenses and cuts automatically  | Art. no.: KE 9229<br>Tension tool with pivot lever                                   | Art. no.: AE 2009                                                                     |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |

## „BAND-IT“

### Tension bands and Cable ties

Endless belt „Series 1103“  
for loose „BALL-LOK“ catches

Material and surface finish:  
Raw stainless steel (V2A)  
Raw Stainless steel (V4A)



| Article no. |           |          |     | Dimensions in mm |           | Package quantity in<br>m/roll |
|-------------|-----------|----------|-----|------------------|-----------|-------------------------------|
| Series      | Execution | Material |     | Width            | Thickness |                               |
|             |           | Raw      |     |                  |           |                               |
|             |           | V2A      | V4A |                  |           |                               |
| 1103        | .CE 3569  | .30      | -   | 4.6              | 0.25      | 100m                          |
| 1103        | .CE 2569  | -        | .35 | 4.6              | 0.25      | 100m                          |
| 1103        | .CE 1569  | .30      | -   | 7.9              | 0.25      | 100m                          |
| 1103        | .CE 4569  | -        | .35 | 7.9              | 0.25      | 100m                          |

Loose catch „Series 1103“  
„BALL-LOK“ catch for endless belts

Material and surface finish:  
Raw stainless steel (V2A)  
Raw Stainless steel (V4A)



| Article no. |           |          | Dimensions in mm | Package quantity |
|-------------|-----------|----------|------------------|------------------|
| Series      | Execution | Material |                  |                  |
|             |           | Raw      | Width            |                  |
|             |           | V4A      |                  |                  |
| 1103        | .CB 2569  | .35      | 4.6              | 100/St.          |
| 1103        | .CB 1569  | .35      | 7.9              | 100/St.          |

Tension band „Series 1103“ may be used without a tool.

## „BAND-IT“ Spannbänder und Kabelbinder

### Clamping tools for „Series 1103“

|                                                                                    |                                                                                   |                                                                                     |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Art. no.: C 00189<br>Adjustable tensile strength,<br>tenses and cuts automatically | Art. no.: KE 9229<br>Tension tool with pivot lever                                | Art. no.: AE 2009                                                                   |
|   |  |  |

### How to use it with trimming lever Art. no.: KE 9229

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| 1. Pull the band through the catch                                                  | 2. Insert in tool                                                                    |
|  |  |
| 3. Clamp it                                                                         | 4. Cut it                                                                            |

## „BAND-IT“

### Tension bands and Cable ties

Tension band „Series 1104“  
„TIE-LOK“ stainless steel cable ties

Material and surface finish:  
Raw stainless steel (V2A)  
Raw Stainless steel (V4A)



| Article no. |           |          |     | Dimensions in mm |           |        |               | Package quantity |
|-------------|-----------|----------|-----|------------------|-----------|--------|---------------|------------------|
| Series      | Execution | Material |     | Width            | Thickness | Length | Max. diameter |                  |
|             |           | Raw      |     |                  |           |        |               |                  |
|             |           | V2A      | V4A |                  |           |        |               |                  |
| 1104        | .AS 2219  | .30      | -   | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2229  | .30      | -   | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2239  | .30      | -   | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2249  | .30      | -   | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2259  | .30      | -   | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4219  | -        | 35  | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4229  | -        | 35  | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4239  | -        | 35  | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4249  | -        | 35  | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4259  | -        | 35  | 4.5              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2119  | .30      | -   | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2129  | .30      | -   | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2139  | .30      | -   | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2149  | .30      | -   | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 2159  | .30      | -   | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4119  | -        | 35  | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4129  | -        | 35  | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4139  | -        | 35  | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4149  | -        | 35  | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 4159  | -        | 35  | 6.4              | 0.38      |        |               | 100/St.          |
| 1104        | .AS 6219  | .30      | -   | 9.6              | 0.51      |        |               | 100/St.          |
| 1104        | .AS 6229  | .30      | -   | 9.6              | 0.51      |        |               | 100/St.          |
| 1104        | .AS 6239  | .30      | -   | 9.6              | 0.51      |        |               | 100/St.          |
| 1104        | .AS 6249  | .30      | -   | 9.6              | 0.51      |        |               | 100/St.          |
| 1104        | .AS 6259  | .30      | -   | 9.6              | 0.51      |        |               | 100/St.          |

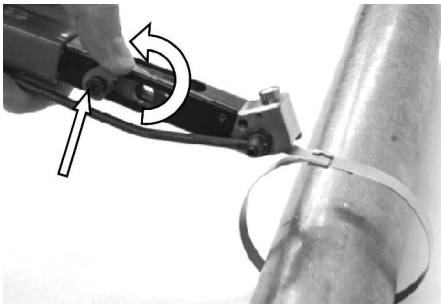
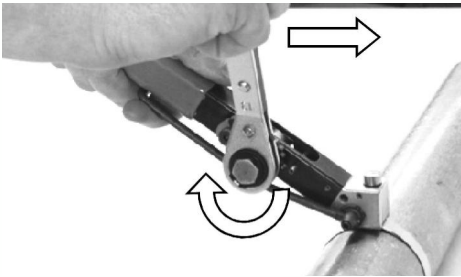
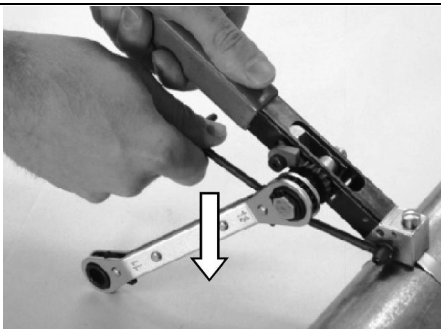
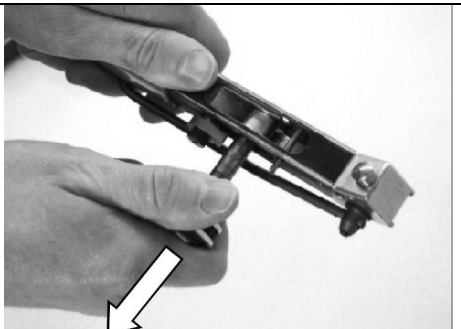


## „BAND-IT“ Spannbänder und Kabelbinder

### Clamping tools for „Series 1104“

| Art. no.: TL 3800<br>for 9.6 mm width                                             | Art. no.: A 92079<br>for 6.4 mm width<br>Adjustable tensile strength,<br>tenses and cuts automatically | Art. no.: A 91079 Mini<br>for 4.5 mm width<br>Adjustable tensile strength,<br>tenses and cuts automatically |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  |                       |                          |

### How to use it Art. no.: TL3800

|                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| 1. Pull the band at least 75 mm through the catch                                   | 2. Insert in the tool                                                               | 3. Clamp it with a pivot lever                                                       |
|  |  |  |
| 4. Jam the band with a hammer                                                       | 5. Cut it                                                                           | 6. Take the rest off                                                                 |



## „BAND-IT“

### Tension bands and Cable ties

#### Endless belt „Series 1105“

„BAND-IT Band“ for loose „SCRU-LOKT loop“

Material and surface finish:  
Raw Stainless steel (V4A)

| Article no. |            |          | Dimensions in mm |           | Package quantity in<br>m/roll |
|-------------|------------|----------|------------------|-----------|-------------------------------|
| Series      | Execution  | Material | Width            | Thickness |                               |
|             |            | Raw      |                  |           |                               |
|             |            | V4A      |                  |           |                               |
| 1105        | .C 40299   | .35      | 6.4              | 0.51      | 30.5 m                        |
| 1105        | .C 40399   | .35      | 9.6              | 0.64      | 30.5 m                        |
| 1105        | .C 403 Y 9 | .35      | 9.6              | 0.64      | 30.5 m with yellow bracket    |
| 1105        | .C 40499   | .35      | 12.7             | 0.76      | 30.5 m                        |
| 1105        | .C 404 B 9 | .35      | 12.7             | 0.76      | 30.5 m with blue bracket      |
| 1105        | .C 40599   | .35      | 15.9             | 0.76      | 30.5 m                        |
| 1105        | .C 405 G 9 | .35      | 15.9             | 0.76      | 30.5 m with green bracket     |
| 1105        | .C 40699   | .35      | 19.1             | 0.76      | 30.5 m                        |
| 1105        | .C 406 R 9 | .35      | 19.1             | 0.76      | 30.5 m with red bracket       |
| 1105        | .C 44499   | .35      | 12.7             | 0.38      | 61 m                          |
| 1105        | .C 444 B 9 | .35      | 12.7             | 0.38      | 61 m with blue bracket        |
| 1105        | .C 44599   | .35      | 15.9             | 0.38      | 61 m                          |
| 1105        | .C 445 G 9 | .35      | 15.9             | 0.38      | 61 m with green bracket       |
| 1105        | .C 44699   | .35      | 19.1             | 0.38      | 61 m                          |
| 1105        | .C 446 R 9 | .35      | 19.1             | 0.38      | 61 m with red bracket         |



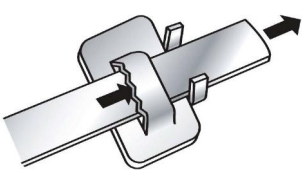
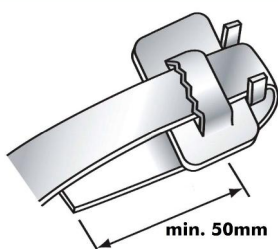
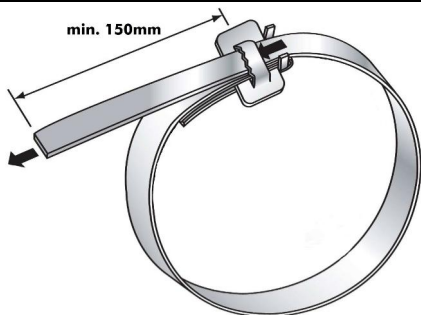
#### Loose catches „Series 1105“

„SCRU-LOKT loop“ for endless belts

Material and surface finish:  
Raw stainless steel (V2A)

| Article no. |           |          | Dimensions in mm | Package quantity |
|-------------|-----------|----------|------------------|------------------|
| Series      | Execution | Material |                  |                  |
|             |           | Raw      |                  |                  |
|             |           | V2A      |                  |                  |
| 1105        | .C 72099  | .30      | 6.4              | 50/St.           |
| 1105        | .C 72299  | .30      | 9.6              | 50/St.           |
| 1105        | .C 72499  | .30      | 12.7             | 25/St.           |
| 1105        | .C 72599  | .30      | 15.9             | 25/St.           |
| 1105        | .C 72699  | .30      | 19.1             | 25/St.           |



| Push the band through the catch                                                     | Bend it down                                                                        | Push the band through the catch<br>Single wrap                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

## „BAND-IT“ Spannbänder und Kabelbinder

### Clamping tools for „Series 1105“

|                                                                                    |                                                                                     |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Art. no.: C 00189                                                                  | Art. no.: C 00369                                                                   |
|   |   |
| Art. no.: C 40099                                                                  | Art. no.: C 08599<br>„Bantam-Ratchet“                                               |
|  |  |

### How to use it Art. no.: C 00189

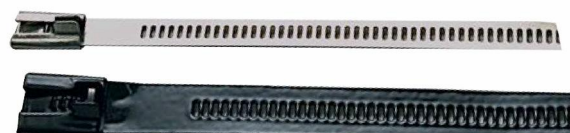
| How to use it<br>Art. no.: C 00189                                                  |                                                                                      |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |   |  |
| 1. Pull the band through the catch                                                  | 2. Nod it ca.50mm down                                                               | 3. Insert it in the tool, turn it with a pivot lever                                 |
|  |  |                                                                                      |
| 4. Cut it off                                                                       | 5. Clamp it                                                                          |                                                                                      |

## „BAND-IT“

### Tension bands and Cable ties

Self-closing band „Series 1106“  
„MULTI-LOK“ stainless steel cable ties

Material and surface finish:  
Raw Stainless steel (V4A)  
Coated stainless steel (V4A)



| Article no. |           |          |         | Dimensions in mm |           |        |               | Package quantity |
|-------------|-----------|----------|---------|------------------|-----------|--------|---------------|------------------|
| Series      | Execution | Material |         | Width            | Thickness | Length | Max. diameter |                  |
|             |           | Raw      | Coating |                  |           |        |               |                  |
|             |           | V4A      | V4A     |                  |           |        |               |                  |
| 1106        | .AE 6019  | .35      | -       | 6.9              | 0.28      | 150    | 33            | 100/St.          |
| 1106        | .AE 6029  | .35      | -       | 6.9              | 0.28      | 225    | 57            | 100/St.          |
| 1106        | .AE 6039  | .35      | -       | 6.9              | 0.28      | 300    | 81            | 100/St.          |
| 1106        | .AE 6049  | .35      | -       | 6.9              | 0.28      | 450    | 129           | 100/St.          |
| 1106        | .AE 6059  | .35      | -       | 6.9              | 0.28      | 610    | 180           | 100/St.          |
| 1106        | .AE 7019  | .35      | -       | 11.9             | 0.46      | 150    | 33            | 100/St.          |
| 1106        | .AE 7029  | .35      | -       | 11.9             | 0.46      | 225    | 57            | 100/St.          |
| 1106        | .AE 7039  | .35      | -       | 11.9             | 0.46      | 300    | 81            | 100/St.          |
| 1106        | .AE 7049  | .35      | -       | 11.9             | 0.46      | 450    | 129           | 100/St.          |
| 1106        | .AE 7059  | .35      | -       | 11.9             | 0.46      | 610    | 180           | 100/St.          |
| 1106        | .AE 6119  | -        | .37     | 6.9              | 0.28      | 150    | 33            | 100/St.          |
| 1106        | .AE 6129  | -        | .37     | 6.9              | 0.28      | 225    | 57            | 100/St.          |
| 1106        | .AE 6139  | -        | .37     | 6.9              | 0.28      | 300    | 81            | 100/St.          |
| 1106        | .AE 6149  | -        | .37     | 6.9              | 0.28      | 450    | 129           | 100/St.          |
| 1106        | .AE 6159  | -        | .37     | 6.9              | 0.28      | 610    | 180           | 100/St.          |
| 1106        | .AE 7119  | -        | .37     | 11.9             | 0.46      | 150    | 33            | 100/St.          |
| 1106        | .AE 7129  | -        | .37     | 11.9             | 0.46      | 225    | 57            | 100/St.          |
| 1106        | .AE 7139  | -        | .37     | 11.9             | 0.46      | 300    | 81            | 100/St.          |
| 1106        | .AE 7149  | -        | .37     | 11.9             | 0.46      | 450    | 129           | 100/St.          |
| 1106        | .AE 7159  | -        | .37     | 11.9             | 0.46      | 610    | 180           | 100/St.          |

Tension band „Series 1106“ may be used without a tool.

| Clamping tools for „Series 1106“                                                   |                   |                   |
|------------------------------------------------------------------------------------|-------------------|-------------------|
| Art. no.: M 50389<br>Adjustable tensile strength,<br>tenses and cuts automatically | Art. no.: AE 2009 | Art. no.: AE 2018 |
|                                                                                    |                   |                   |



## Hose clips and Pipe clips







## Hose clips and Pipe clips

### Materials and surface finishes:

- W1 Zinc plated - completely made of coated steel, small requirement from the corrosion resistance.
- W2 Stainless steel - band and housing (chrome-steel 1.4016), GALVANIZED screw. From small up to middle requirement from the corrosion resistance, but with warranty of solvability of corrosive connections.
- W4 Stainless steel – complete chrome-nickel-steel 1.4301 (or similar steel). Also known as V2A. Great requirements from the corrosion resistance and design.
- W5 completely made of chrome-nickel-molybdenum-steel 1.4571 (1.4401). Also known as V4A. W5 is seawater-resistant and heavily magnetizable. Great requirements from the corrosion resistance.

| Art. no.   | Designation    | Function                                  | Package content |
|------------|----------------|-------------------------------------------|-----------------|
| 7200000002 | mounting plier | for front and side assembly of ear clamps | 1               |



| Art. no.   | Designation                | Function                    | Package content |
|------------|----------------------------|-----------------------------|-----------------|
| 1200070000 | flexible screw driver SW 7 | fixing of worm-drive clamps | 1               |



### Assortment boxes

Worm-drive clamps TI 9/TI 12

1-ear clamp or 2-ear clamp

Available on enquiry.



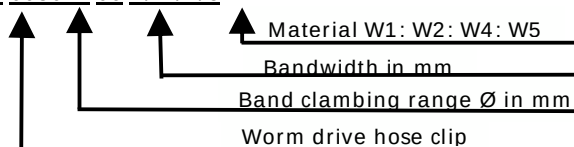
## Hose clips and pipe clips

Worm-drive clamps „TI 9“  
with embossed band

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 100801209/ | 1        | 2  | 3  | 4  | 8-12    | 9              | 50                 |
| 101001609/ | 1        | 2  | 4  | 5  | 10-16   | 9              | 50                 |
| 101202009/ | 1        | 2  | 4  | 5  | 12-20   | 9              | 50                 |
| 101202209/ | 1        | 2  | 4  | 5  | 12-22   | 9              | 50                 |
| 101602709/ | 1        | 2  | 4  | 5  | 16-27   | 9              | 50                 |
| 102003209/ | 1        | 2  | 4  | 5  | 20-32   | 9              | 50                 |
| 102303509/ | 1        | 2  | 4  | 5  | 23-35   | 9              | 50                 |
| 102504009/ | 1        | 2  | 4  | 5  | 25-40   | 9              | 50                 |
| 103004509/ | 1        | 2  | 4  | 5  | 30-45   | 9              | 25                 |
| 103205009/ | 1        | 2  | 4  | 5  | 32-50   | 9              | 25                 |
| 104006009/ | 1        | 2  | 4  | 5  | 40-60   | 9              | 25                 |
| 105007009/ | 1        | 2  | 4  | 5  | 50-70   | 9              | 25                 |
| 106008009/ | 1        | 2  | 4  | 5  | 60-80   | 9              | 25                 |
| 107009009/ | 1        | 2  | 4  | 5  | 70-90   | 9              | 25                 |
| 108010009/ | 1        | 2  | 4  | 5  | 80-100  | 9              | 25                 |
| 109011009/ | 1        | 2  | 4  | 5  | 90-110  | 9              | 25                 |
| 110012009/ | 1        | 2  | 4  | 5  | 100-120 | 9              | 25                 |
| 111013009/ | 1        | 2  | 4  | 5  | 110-130 | 9              | 25                 |
| 112014009/ | 1        | 2  | 4  | 5  | 120-140 | 9              | 25                 |
| 113015009/ | 1        | 2  | 4  | 5  | 130-150 | 9              | 25                 |
| 114016009/ | 1        | 2  | 4  | 5  | 140-160 | 9              | 25                 |
| 115017009/ | 1        | 2  | 4  | 5  | 150-170 | 9              | 25                 |
| 116018009/ | 1        | 2  | 4  | 5  | 160-180 | 9              | 25                 |
| 117019009/ | 1        | 2  | 4  | 5  | 170-190 | 9              | 25                 |
| 118020009/ | 1        | 2  | 4  | 5  | 180-200 | 9              | 25                 |
| 119021009/ | 1        | 2  | 4  | 5  | 190-210 | 9              | 25                 |
| 120022009/ | 1        | 2  | 4  | 5  | 200-220 | 9              | 25                 |
| 121023009/ | 1        | 2  | 4  | 5  | 210-230 | 9              | 25                 |
| 122024009/ | 1        | 2  | 4  | 5  | 220-240 | 9              | 25                 |
| 123025009/ | 1        | 2  | 4  | 5  | 230-250 | 9              | 25                 |
| 124026009/ | 1        | 2  | 4  | 5  | 240-260 | 9              | 25                 |
| 125027009/ | 1        | 2  | 4  | 5  | 250-270 | 9              | 25                 |
| 126028009/ | 1        | 2  | 4  | 5  | 260-280 | 9              | 25                 |
| 127029009/ | 1        | 2  | 4  | 5  | 270-290 | 9              | 25                 |
| 128030009/ | 1        | 2  | 4  | 5  | 280-300 | 9              | 25                 |
| 129031009/ | 1        | 2  | 4  | 5  | 290-310 | 9              | 25                 |
| 130032009/ | 1        | 2  | 4  | 5  | 300-320 | 9              | 25                 |

Order example:

Art.no. 1 008012 09 1/2"/4/5



By greater dimensions, we recommend our endless band (EB) with loose headers or our fastening clamp with folding housing (VF).

## hose clips and pipe clips

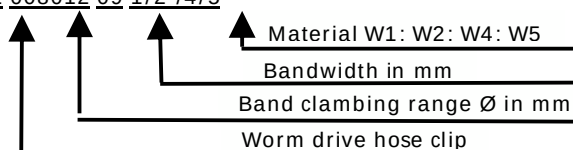
Worm-drive clamps „TI 12“  
with embossed band

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 101602712/ | 1        | 2  | 4  | 5  | 16-27   | 12             | 50                 |
| 102003212/ | 1        | 2  | 4  | 5  | 20-32   | 12             | 50                 |
| 102303512/ | 1        | 2  | 4  | 5  | 23-35   | 12             | 50                 |
| 102504012/ | 1        | 2  | 4  | 5  | 25-40   | 12             | 50                 |
| 103004512/ | 1        | 2  | 4  | 5  | 30-45   | 12             | 50                 |
| 103205012/ | 1        | 2  | 4  | 5  | 32-50   | 12             | 50                 |
| 104006012/ | 1        | 2  | 4  | 5  | 40-60   | 12             | 25                 |
| 105007012/ | 1        | 2  | 4  | 5  | 50-70   | 12             | 25                 |
| 106008012/ | 1        | 2  | 4  | 5  | 60-80   | 12             | 25                 |
| 107009012/ | 1        | 2  | 4  | 5  | 70-90   | 12             | 25                 |
| 108010012/ | 1        | 2  | 4  | 5  | 80-100  | 12             | 25                 |
| 109011012/ | 1        | 2  | 4  | 5  | 90-110  | 12             | 25                 |
| 110012012/ | 1        | 2  | 4  | 5  | 100-120 | 12             | 25                 |
| 111013012/ | 1        | 2  | 4  | 5  | 110-130 | 12             | 15                 |
| 112014012/ | 1        | 2  | 4  | 5  | 120-140 | 12             | 15                 |
| 113015012/ | 1        | 2  | 4  | 5  | 130-150 | 12             | 15                 |
| 114016012/ | 1        | 2  | 4  | 5  | 140-160 | 12             | 15                 |
| 115017012/ | 1        | 2  | 4  | 5  | 150-170 | 12             | 15                 |
| 116018012/ | 1        | 2  | 4  | 5  | 160-180 | 12             | 15                 |
| 117019012/ | 1        | 2  | 4  | 5  | 170-190 | 12             | 15                 |
| 118020012/ | 1        | 2  | 4  | 5  | 180-200 | 12             | 15                 |
| 119021012/ | 1        | 2  | 4  | 5  | 190-210 | 12             | 15                 |
| 120022012/ | 1        | 2  | 4  | 5  | 200-220 | 12             | 15                 |
| 121023012/ | 1        | 2  | 4  | 5  | 210-230 | 12             | 15                 |
| 122024012/ | 1        | 2  | 4  | 5  | 220-240 | 12             | 15                 |
| 123025012/ | 1        | 2  | 4  | 5  | 230-250 | 12             | 15                 |
| 124026012/ | 1        | 2  | 4  | 5  | 240-260 | 12             | 15                 |
| 125027012/ | 1        | 2  | 4  | 5  | 250-270 | 12             | 15                 |
| 126028012/ | 1        | 2  | 4  | 5  | 260-280 | 12             | 15                 |
| 127029012/ | 1        | 2  | 4  | 5  | 270-290 | 12             | 15                 |
| 128030012/ | 1        | 2  | 4  | 5  | 280-300 | 12             | 15                 |
| 129031012/ | 1        | 2  | 4  | 5  | 290-310 | 12             | 15                 |
| 130032012/ | 1        | 2  | 4  | 5  | 300-320 | 12             | 15                 |



Order example:

Art.no. 1 008012 09 1/2"/4/5



By greater dimensions, we recommend our endless band (EB) with loose headers or our fastening clamp with folding housing (VF).

## Hose clips and pipe clips

### Worm-drive clamps „TI 8“ with punched-through band

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 100601608/ | -        | 2  | 4  | -  | 6-16    | 8              | 100                |
| 100701708/ | -        | 2  | 4  | -  | 7-17    | 8              | 100                |
| 100802208/ | -        | 2  | 4  | -  | 8-22    | 8              | 100                |
| 101002708/ | -        | 2  | 4  | -  | 10-27   | 8              | 100                |
| 101303808/ | -        | 2  | 4  | -  | 13-38   | 8              | 100                |
| 101904408/ | -        | 2  | 4  | -  | 19-44   | 8              | 100                |
| 102605108/ | -        | 2  | 4  | -  | 26-51   | 8              | 100                |
| 103205708/ | -        | 2  | 4  | -  | 32-57   | 8              | 100                |
| 103806308/ | -        | 2  | 4  | -  | 38-63   | 8              | 100                |
| 104507008/ | -        | 2  | 4  | -  | 45-70   | 8              | 100                |
| 105708208/ | -        | 2  | 4  | -  | 57-82   | 8              | 100                |
| 106408908/ | -        | 2  | 4  | -  | 64-89   | 8              | 100                |
| 117610208/ | -        | 2  | 4  | -  | 76-102  | 8              | 100                |



### Worm-drive clamps „LF 5“ with punched-through band

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 100701105/ | -        | 2  | 4  | -  | 7-11    | 5              | 100                |
| 101001905/ | -        | 2  | 4  | -  | 10-19   | 5              | 100                |



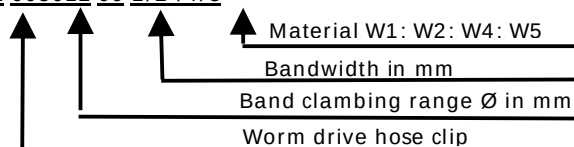
### Endless band with loose headers „EB 13“ with punched-through band

| Art. no.   | Material |     |     |    | Width<br>in mm | Package<br>content |
|------------|----------|-----|-----|----|----------------|--------------------|
|            | W1       | W2  | W4  | W5 |                |                    |
| 121300003B | -        | yes | -   | -  | 13             | Band 3 m / 6 heads |
| 121300030B | -        | yes | -   | -  | 13             | 30 m               |
| 121300050K | -        | yes | -   | -  | 13             | 50 heads           |
| 141300003B | -        | -   | yes | -  | 13             | Band 3 m / 6 heads |
| 141300030B | -        | -   | yes | -  | 13             | 30 m               |
| 141300050K | -        | -   | yes | -  | 13             | 50 heads           |



Order example:

Art.no. 1 008012 09 1/2"/4/5



By greater dimensions, we recommend our endless band (EB) with loose headers or our fastening clamp with folding housing (VF).

## hose clips and pipe clips

Fastening clamps „VF 9“  
with embossed band

| Art. no.    | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|-------------|----------|----|----|----|---------|----------------|--------------------|
|             | W1       | W2 | W4 | W5 |         |                |                    |
| 160080VF09/ | -        | 2  | 4  | -  | 60-80   | 9              | 100                |
| 160090VF09/ | -        | 2  | 4  | -  | 60-90   | 9              | 100                |
| 160110VF09/ | -        | 2  | 4  | -  | 60-110  | 9              | 100                |
| 160135VF09/ | -        | 2  | 4  | -  | 60-135  | 9              | 100                |
| 160145VF09/ | -        | 2  | 4  | -  | 60-145  | 9              | 100                |
| 160170VF09/ | -        | 2  | 4  | -  | 60-170  | 9              | 100                |
| 160215VF09/ | -        | 2  | 4  | -  | 60-215  | 9              | 100                |
| 160270VF09/ | -        | 2  | 4  | -  | 60-270  | 9              | 100                |
| 160325VF09/ | -        | 2  | 4  | -  | 60-325  | 9              | 100                |
| 160380VF09/ | -        | 2  | 4  | -  | 60-380  | 9              | 100                |
| 160425VF09/ | -        | 2  | 4  | -  | 60-425  | 9              | 100                |
| 160525VF09/ | -        | 2  | 4  | -  | 60-525  | 9              | 100                |
| 160660VF09/ | -        | 2  | 4  | -  | 60-660  | 9              | 100                |



Fastening clamps „VF 12“  
with embossed band

| Art. no.    | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|-------------|----------|----|----|----|---------|----------------|--------------------|
|             | W1       | W2 | W4 | W5 |         |                |                    |
| 160080VF12/ | -        | 2  | -  | -  | 60-80   | 12             | 100                |
| 160090VF12/ | -        | 2  | -  | -  | 60-90   | 12             | 100                |
| 160110VF12/ | -        | 2  | -  | -  | 60-110  | 12             | 100                |
| 160135VF12/ | -        | 2  | -  | -  | 60-135  | 12             | 100                |
| 160145VF12/ | -        | 2  | -  | -  | 60-145  | 12             | 100                |
| 160170VF12/ | -        | 2  | -  | -  | 60-170  | 12             | 100                |
| 160215VF12/ | -        | 2  | -  | -  | 60-215  | 12             | 100                |
| 160270VF12/ | -        | 2  | -  | -  | 60-270  | 12             | 100                |
| 160325VF12/ | -        | 2  | -  | -  | 60-325  | 12             | 100                |
| 160380VF12/ | -        | 2  | -  | -  | 60-380  | 12             | 100                |
| 160425VF12/ | -        | 2  | -  | -  | 60-425  | 12             | 100                |
| 160525VF12/ | -        | 2  | -  | -  | 60-525  | 12             | 100                |
| 160660VF12/ | -        | 2  | -  | -  | 60-660  | 12             | 100                |



Endless band „EB 9“ with loose foldable headers „VF “  
with embossed band

| Art. no.   | Material |     |     |    | Width<br>in mm | Package<br>content |
|------------|----------|-----|-----|----|----------------|--------------------|
|            | W1       | W2  | W4  | W5 |                |                    |
| 110900003B | yes      | -   | -   | -  | 9              | 3 m / 6 heads      |
| 120900030B | -        | yes | -   | -  | 9              | 30 m               |
| 110900050K | yes      | -   | -   | -  | 9              | 50 heads           |
| 140900003B | -        | -   | yes | -  | 9              | Band 3 m / 6 heads |
| 140900030B | -        | -   | yes | -  | 9              | 30 m               |
| 140900050K | -        | -   | yes | -  | 9              | 50 heads           |



## Hose clips and pipe clips

### Hinge bolt clamps „GBS “ 1-part

| Art. no.    | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|-------------|----------|----|----|----|---------|----------------|--------------------|
|             | W1       | W2 | W4 | W5 |         |                |                    |
| 2 18101719  | 1        | -  | -  | 5  | 17-19   | 18             | 50                 |
| 2 18102022  | 1        | -  | -  | 5  | 20-22   | 18             | 50                 |
| 2 18102325  | 1        | -  | -  | 5  | 23-25   | 18             | 50                 |
| 2 18102628  | 1        | -  | -  | 5  | 26-28   | 18             | 50                 |
| 2 18102931  | 1        | -  | -  | 5  | 29-31   | 18             | 50                 |
| 2 20103235  | 1        | -  | -  | 5  | 32-35   | 20             | 50                 |
| 2 20103639  | 1        | -  | -  | 5  | 36-39   | 20             | 50                 |
| 2 20104043  | 1        | -  | -  | 5  | 40-43   | 20             | 50                 |
| 2 20104447  | 1        | -  | -  | 5  | 44-47   | 20             | 50                 |
| 2 20104851  | 1        | -  | -  | 5  | 48-51   | 20             | 50                 |
| 2 20105255  | 1        | -  | -  | 5  | 52-55   | 20             | 25                 |
| 2 20105659  | 1        | -  | -  | 5  | 56-59   | 20             | 25                 |
| 2 20106063  | 1        | -  | -  | 5  | 60-63   | 20             | 25                 |
| 2 25106467  | 1        | -  | -  | 5  | 64-67   | 25             | 25                 |
| 2 25106873  | 1        | -  | -  | 5  | 68-73   | 25             | 25                 |
| 2 25107479  | 1        | -  | -  | 5  | 74-79   | 25             | 25                 |
| 2 25108085  | 1        | -  | -  | 5  | 80-85   | 25             | 25                 |
| 2 25108691  | 1        | -  | -  | 5  | 86-91   | 25             | 25                 |
| 2 25109297  | 1        | -  | -  | 5  | 92-97   | 25             | 25                 |
| 2 251098103 | 1        | -  | -  | 5  | 98-103  | 25             | 24                 |
| 2 251104112 | 1        | -  | -  | 5  | 104-112 | 25             | 24                 |
| 2 251113121 | 1        | -  | -  | 5  | 113-121 | 25             | 20                 |
| 2 251122130 | 1        | -  | -  | 5  | 122-130 | 25             | 16                 |
| 2 251131139 | 1        | -  | -  | 5  | 131-139 | 25             | 16                 |
| 2 251140148 | 1        | -  | -  | 5  | 140-148 | 25             | 12                 |
| 2 251149161 | 1        | -  | -  | 5  | 149-161 | 25             | 8                  |
| 2 251162174 | 1        | -  | -  | 5  | 162-174 | 25             | 8                  |
| 2 251175187 | 1        | -  | -  | 5  | 175-187 | 25             | 8                  |
| 2 251188200 | 1        | -  | -  | 5  | 188-200 | 25             | 5                  |
| 2 251201213 | 1        | -  | -  | 5  | 201-213 | 25             | 5                  |
| 2 251214226 | 1        | -  | -  | 5  | 214-226 | 25             | 5                  |
| 2 251227239 | 1        | -  | -  | 5  | 227-239 | 25             | 5                  |
| 2 251240252 | 1        | -  | -  | 5  | 240-252 | 25             | 5                  |



Further sizes and materials are available on enquiry.



## hose clips and pipe clips

### Hinge bolt clamps „GBS “ 2-part

| Art. no.    | Material |    |    |    | Ø in mm | Width in mm | Package content |
|-------------|----------|----|----|----|---------|-------------|-----------------|
|             | W1       | W2 | W4 | W5 |         |             |                 |
| 2 20204048  | 1        | -  | -  | 5  | 40-48   | 20          | 5               |
| 2 20204856  | 1        | -  | -  | 5  | 48-56   | 20          | 5               |
| 2 20205664  | 1        | -  | -  | 5  | 56-64   | 20          | 5               |
| 2 20206472  | 1        | -  | -  | 5  | 64-72   | 20          | 5               |
| 2 20207280  | 1        | -  | -  | 5  | 72-80   | 20          | 5               |
| 2 20208088  | 1        | -  | -  | 5  | 80-88   | 20          | 5               |
| 2 20208896  | 1        | -  | -  | 5  | 88-96   | 20          | 5               |
| 2 202096104 | 1        | -  | -  | 5  | 96-104  | 20          | 5               |
| 2 25208095  | 1        | -  | -  | 5  | 80-95   | 25          | 5               |
| 2 252095110 | 1        | -  | -  | 5  | 95-110  | 25          | 5               |
| 2 252110125 | 1        | -  | -  | 5  | 110-125 | 25          | 5               |
| 2 252125140 | 1        | -  | -  | 5  | 125-140 | 25          | 5               |
| 2 252140155 | 1        | -  | -  | 5  | 140-155 | 25          | 5               |
| 2 252155170 | 1        | -  | -  | 5  | 155-170 | 25          | 5               |
| 2 252170185 | 1        | -  | -  | 5  | 170-185 | 25          | 5               |
| 2 252185205 | 1        | -  | -  | 5  | 185-205 | 25          | 5               |
| 2 252205225 | 1        | -  | -  | 5  | 205-225 | 25          | 5               |
| 2 252225245 | 1        | -  | -  | 5  | 225-245 | 25          | 5               |
| 2 302185205 | 1        | -  | -  | 5  | 185-205 | 30          | 5               |
| 2 302205225 | 1        | -  | -  | 5  | 205-225 | 30          | 5               |
| 2 302225245 | 1        | -  | -  | 5  | 225-245 | 30          | 5               |
| 2 302245265 | 1        | -  | -  | 5  | 245-265 | 30          | 5               |
| 2 302265285 | 1        | -  | -  | 5  | 265-285 | 30          | 5               |
| 2 302285305 | 1        | -  | -  | 5  | 285-305 | 30          | 5               |
| 2 302305325 | 1        | -  | -  | 5  | 305-325 | 30          | 5               |
| 2 302325345 | 1        | -  | -  | 5  | 325-345 | 30          | 5               |
| 2 302345365 | 1        | -  | -  | 5  | 345-365 | 30          | 5               |
| 2 302365385 | 1        | -  | -  | 5  | 365-385 | 30          | 5               |
| 2 302385405 | 1        | -  | -  | 5  | 385-405 | 30          | 5               |
| 2 302405425 | 1        | -  | -  | 5  | 405-425 | 30          | 5               |
| 2 302425445 | 1        | -  | -  | 5  | 425-445 | 30          | 5               |
| 2 302445465 | 1        | -  | -  | 5  | 445-465 | 30          | 5               |

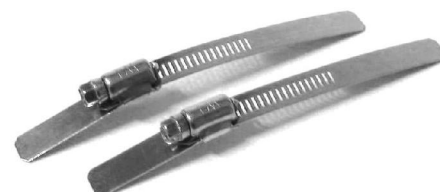


Further sizes and materials are available on enquiry.

## Hose clips and pipe clips

Elongated hose clamp „chimney clamps “  
with welding sockets

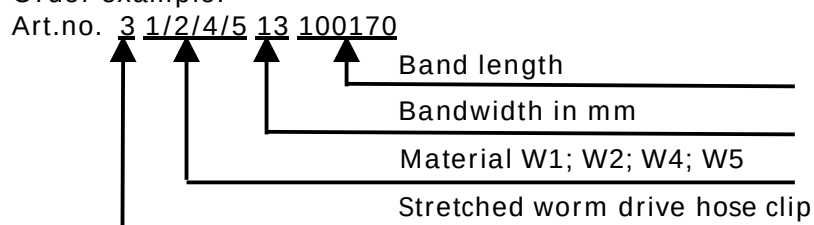
| Art. no.   | Material |    |     |    | Length<br>in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|-----|----|-----------------|----------------|--------------------|
|            | W1       | W2 | W4  | W5 |                 |                |                    |
| 3409100170 | -        | -  | yes | -  | 100-170         | 9              | -                  |



Further sizes and quantities on enquiry.

| Art. no.   | Material |    |     |    | Length<br>in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|-----|----|-----------------|----------------|--------------------|
|            | W1       | W2 | W4  | W5 |                 |                |                    |
| 3413100170 | -        | -  | yes | -  | 100-170         | 13             | -                  |

Order example:



Double wire clamps „DDK “

| Art. no.   | Material |    |    |    | Pipe Ø<br>in mm | Package<br>content |
|------------|----------|----|----|----|-----------------|--------------------|
|            | W1       | W2 | W4 | W5 |                 |                    |
| 5911000016 | yes      | -  | -  | -  | 13-16           | 50                 |
| 5911000018 | yes      | -  | -  | -  | 15-18           | 50                 |
| 5911000020 | yes      | -  | -  | -  | 17-20           | 50                 |
| 5911000023 | yes      | -  | -  | -  | 19-23           | 50                 |
| 5911000025 | yes      | -  | -  | -  | 22-25           | 50                 |
| 5911000027 | yes      | -  | -  | -  | 24-27           | 50                 |
| 5911000031 | yes      | -  | -  | -  | 27-31           | 50                 |
| 5911000035 | yes      | -  | -  | -  | 31-35           | 50                 |
| 5911000037 | yes      | -  | -  | -  | 33-37           | 50                 |
| 5911000040 | yes      | -  | -  | -  | 36-40           | 50                 |
| 5911000043 | yes      | -  | -  | -  | 39-43           | 50                 |
| 5911000046 | yes      | -  | -  | -  | 41-46           | 50                 |
| 5911000049 | yes      | -  | -  | -  | 44-49           | 50                 |
| 5911000053 | yes      | -  | -  | -  | 47-53           | 50                 |
| 5911000056 | yes      | -  | -  | -  | 51-56           | 50                 |
| 5911000060 | yes      | -  | -  | -  | 54-60           | 50                 |
| 5911000068 | yes      | -  | -  | -  | 60-68           | 50                 |
| 5911000072 | yes      | -  | -  | -  | 64-72           | 50                 |



Further sizes and materials are available on enquiry.

## hose clips and pipe clips

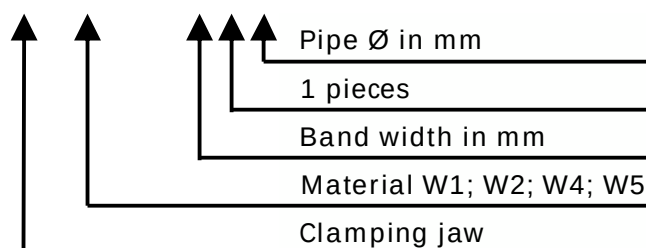
### Clamping jaws „S 9“

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 6_09100008 | 1        | -  | -  | -  | 8       | 9              | 100                |
| 6_09100009 | 1        | -  | -  | -  | 9       | 9              | 100                |
| 6_09100010 | 1        | -  | -  | -  | 10      | 9              | 100                |
| 6_09100011 | 1        | -  | -  | -  | 11      | 9              | 100                |
| 6_09100012 | 1        | -  | -  | -  | 12      | 9              | 100                |
| 6_09100013 | 1        | -  | -  | -  | 13      | 9              | 100                |
| 6_09100014 | 1        | -  | -  | -  | 14      | 9              | 100                |
| 6_09100015 | 1        | -  | -  | -  | 15      | 9              | 100                |
| 6_09100016 | 1        | -  | -  | -  | 16      | 9              | 100                |
| 6_09100017 | 1        | -  | -  | -  | 17      | 9              | 100                |
| 6_09100018 | 1        | -  | -  | -  | 18      | 9              | 100                |
| 6_09100019 | 1        | -  | -  | -  | 19      | 9              | 100                |
| 6_09100020 | 1        | -  | -  | -  | 20      | 9              | 100                |
| 6_09100021 | 1        | -  | -  | -  | 21      | 9              | 100                |



### Order example:

Art.no. 6 1/2/4/5 12 1 12



Further sizes and materials are available on enquiry.

## Hose clips and pipe clips

### Clamping jaws „S 12“

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 6 12100012 | 1        | -  | -  | -  | 12      | 12             | 100                |
| 6 12100013 | 1        | -  | -  | -  | 13      | 12             | 100                |
| 6 12100014 | 1        | -  | -  | -  | 14      | 12             | 100                |
| 6 12100015 | 1        | -  | -  | -  | 15      | 12             | 100                |
| 6 12100016 | 1        | -  | -  | -  | 16      | 12             | 100                |
| 6 12100017 | 1        | -  | -  | -  | 17      | 12             | 100                |
| 6 12100018 | 1        | -  | -  | -  | 18      | 12             | 100                |
| 6 12100019 | 1        | -  | -  | -  | 19      | 12             | 100                |
| 6 12100020 | 1        | -  | -  | -  | 20      | 12             | 100                |
| 6 12100021 | 1        | -  | -  | -  | 21      | 12             | 100                |
| 6 12100022 | 1        | -  | -  | -  | 22      | 12             | 100                |
| 6 12100023 | 1        | -  | -  | -  | 23      | 12             | 100                |
| 6 12100024 | 1        | -  | -  | -  | 24      | 12             | 100                |
| 6 12100025 | 1        | -  | -  | -  | 25      | 12             | 100                |
| 6 12100026 | 1        | -  | -  | -  | 26      | 12             | 100                |
| 6 12100027 | 1        | -  | -  | -  | 27      | 12             | 100                |
| 6 12100028 | 1        | -  | -  | -  | 28      | 12             | 100                |
| 6 12100029 | 1        | -  | -  | -  | 29      | 12             | 100                |
| 6 12100030 | 1        | -  | -  | -  | 30      | 12             | 100                |
| 6 12100031 | 1        | -  | -  | -  | 31      | 12             | 100                |
| 6 12100032 | 1        | -  | -  | -  | 32      | 12             | 100                |
| 6 12100033 | 1        | -  | -  | -  | 33      | 12             | 100                |
| 6 12100034 | 1        | -  | -  | -  | 34      | 12             | 100                |
| 6 12100035 | 1        | -  | -  | -  | 35      | 12             | 100                |
| 6 12100036 | 1        | -  | -  | -  | 36      | 12             | 100                |
| 6 12100037 | 1        | -  | -  | -  | 37      | 12             | 100                |
| 6 12100038 | 1        | -  | -  | -  | 38      | 12             | 100                |
| 6 12100039 | 1        | -  | -  | -  | 39      | 12             | 100                |
| 6 12100040 | 1        | -  | -  | -  | 40      | 12             | 100                |
| 6 12100041 | 1        | -  | -  | -  | 41      | 12             | 100                |
| 6 12100042 | 1        | -  | -  | -  | 42      | 12             | 100                |
| 6 12100043 | 1        | -  | -  | -  | 43      | 12             | 100                |
| 6 12100044 | 1        | -  | -  | -  | 44      | 12             | 100                |
| 6 12100045 | 1        | -  | -  | -  | 45      | 12             | 100                |



Further sizes and materials are available on enquiry.

## hose clips and pipe clips

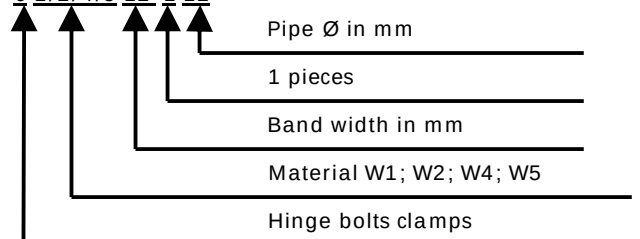
### Clamping jaws „S 15“

| Art. no.   | Material |    |    |    | Ø in mm | Width in mm | Package content |
|------------|----------|----|----|----|---------|-------------|-----------------|
|            | W1       | W2 | W4 | W5 |         |             |                 |
| 6_15100021 | 1        | -  | -  | -  | 21      | 15          | 100             |
| 6_15100022 | 1        | -  | -  | -  | 22      | 15          | 100             |
| 6_15100023 | 1        | -  | -  | -  | 23      | 15          | 100             |
| 6_15100024 | 1        | -  | -  | -  | 24      | 15          | 100             |
| 6_15100025 | 1        | -  | -  | -  | 25      | 15          | 100             |
| 6_15100026 | 1        | -  | -  | -  | 26      | 15          | 100             |
| 6_15100027 | 1        | -  | -  | -  | 27      | 15          | 100             |
| 6_15100028 | 1        | -  | -  | -  | 28      | 15          | 100             |
| 6_15100029 | 1        | -  | -  | -  | 29      | 15          | 100             |
| 6_15100030 | 1        | -  | -  | -  | 30      | 15          | 100             |
| 6_15100031 | 1        | -  | -  | -  | 31      | 15          | 100             |
| 6_15100032 | 1        | -  | -  | -  | 32      | 15          | 100             |
| 6_15100033 | 1        | -  | -  | -  | 33      | 15          | 100             |
| 6_15100034 | 1        | -  | -  | -  | 34      | 15          | 100             |
| 6_15100035 | 1        | -  | -  | -  | 35      | 15          | 100             |
| 6_15100036 | 1        | -  | -  | -  | 36      | 15          | 100             |
| 6_15100037 | 1        | -  | -  | -  | 37      | 15          | 100             |
| 6_15100038 | 1        | -  | -  | -  | 38      | 15          | 100             |
| 6_15100039 | 1        | -  | -  | -  | 39      | 15          | 100             |
| 6_15100040 | 1        | -  | -  | -  | 40      | 15          | 100             |
| 6_15100041 | 1        | -  | -  | -  | 41      | 15          | 100             |
| 6_15100042 | 1        | -  | -  | -  | 42      | 15          | 100             |
| 6_15100043 | 1        | -  | -  | -  | 43      | 15          | 100             |
| 6_15100044 | 1        | -  | -  | -  | 44      | 15          | 100             |
| 6_15100045 | 1        | -  | -  | -  | 45      | 15          | 100             |
| 6_15100046 | 1        | -  | -  | -  | 46      | 15          | 100             |
| 6_15100047 | 1        | -  | -  | -  | 47      | 15          | 100             |
| 6_15100048 | 1        | -  | -  | -  | 48      | 15          | 100             |
| 6_15100049 | 1        | -  | -  | -  | 49      | 15          | 100             |
| 6_15100050 | 1        | -  | -  | -  | 50      | 15          | 100             |
| 6_15100051 | 1        | -  | -  | -  | 51      | 15          | 100             |
| 6_15100052 | 1        | -  | -  | -  | 52      | 15          | 100             |
| 6_15100053 | 1        | -  | -  | -  | 53      | 15          | 100             |
| 6_15100054 | 1        | -  | -  | -  | 54      | 15          | 100             |
| 6_15100055 | 1        | -  | -  | -  | 55      | 15          | 100             |
| 6_15100056 | 1        | -  | -  | -  | 56      | 15          | 100             |



Order example:

Art.no. 6\_1/2/4/5\_12\_1\_12





## Hose clips and pipe clips

### „1-ear clamp“

| Art. no.   | Material |    |    |    | Ø in mm | Width in mm | Package content |
|------------|----------|----|----|----|---------|-------------|-----------------|
|            | W1       | W2 | W4 | W5 |         |             |                 |
| 7_10000709 | -        | -  | 4  | -  | 7-9     | 6           | 100             |
| 7_10000810 | 1        | -  | 4  | -  | 8-10    | 6           | 100             |
| 7_10000911 | 1        | -  | 4  | -  | 9-11    | 6,5         | 100             |
| 7_10001012 | 1        | -  | 4  | -  | 10-12   | 6,5         | 100             |
| 7_10001113 | 1        | -  | 4  | -  | 11-13   | 6,5         | 100             |
| 7_10001214 | 1        | -  | 4  | -  | 12-14   | 7           | 100             |
| 7_10001416 | 1        | -  | 4  | -  | 14-16   | 7           | 100             |
| 7_10001618 | 1        | -  | 4  | -  | 16-18   | 7           | 100             |



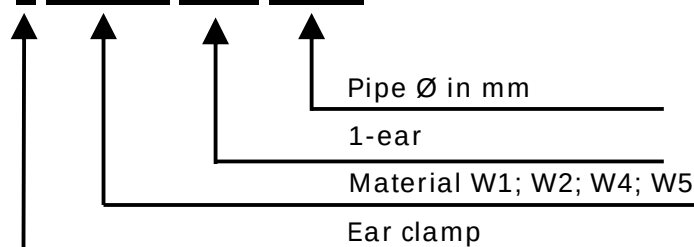
### „1-ear clamp“

| Art. no.   | Material |    |    |    | Ø in mm   | Width in mm | Package content |
|------------|----------|----|----|----|-----------|-------------|-----------------|
|            | W1       | W2 | W4 | W5 |           |             |                 |
| 7_10075085 | 1        | -  | 4  | -  | 7,5-8,5   | 6           | 100             |
| 7_10082095 | 1        | -  | 4  | -  | 8,2-9,5   | 6           | 100             |
| 7_10090105 | 1        | -  | 4  | -  | 9,0-10,5  | 6,5         | 100             |
| 7_10100115 | 1        | -  | 4  | -  | 10,0-11,5 | 6,5         | 100             |
| 7_10105125 | 1        | -  | 4  | -  | 10,5-12,5 | 6,5         | 100             |
| 7_10115133 | 1        | -  | 4  | -  | 11,5-13,5 | 7           | 100             |
| 7_10130153 | 1        | -  | 4  | -  | 13,0-15,3 | 7           | 100             |
| 7_10150173 | 1        | -  | 4  | -  | 15,0-17,3 | 7           | 100             |
| 7_10130153 | -        | -  | 4  | -  | 16,0-18,3 | 7,5         | 100             |
| 7_10150173 | -        | -  | 4  | -  | 17,0-19,3 | 7,5         | 100             |



Order example:

Art.no. 7 1/2/4/5 1000 05-07



By greater dimensions, we recommend our endless band (EB) with loose headers or our fastening clamp with folding housing (VF).

## hose clips and pipe clips

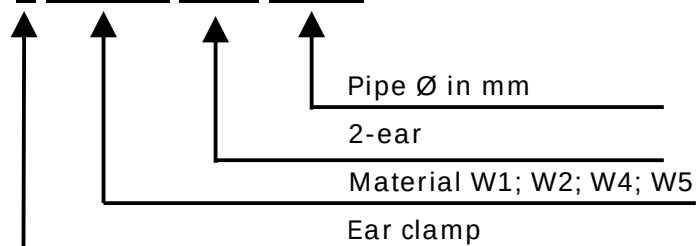
### „2-ear clamp“

| Art. no.   | Material |    |    |    | Ø in mm | Width<br>in mm | Package<br>content |
|------------|----------|----|----|----|---------|----------------|--------------------|
|            | W1       | W2 | W4 | W5 |         |                |                    |
| 7_00000507 | 1        | -  | 4  | -  | 5-7     | 6              | 100                |
| 7_00000709 | 1        | -  | 4  | -  | 7-9     | 6              | 100                |
| 7_00000911 | 1        | -  | 4  | -  | 9-11    | 6,5            | 100                |
| 7_00001113 | 1        | -  | 4  | -  | 11-13   | 6,5            | 100                |
| 7_00001315 | 1        | -  | 4  | -  | 13-15   | 7              | 100                |
| 7_00001417 | 1        | -  | 4  | -  | 14-17   | 7              | 100                |
| 7_00001518 | 1        | -  | 4  | -  | 15-18   | 7,5            | 100                |
| 7_00001720 | 1        | -  | 4  | -  | 17-20   | 7,5            | 100                |
| 7_00001821 | 1        | -  | 4  | -  | 18-21   | 8              | 100                |
| 7_00002023 | 1        | -  | 4  | -  | 20-23   | 8              | 100                |
| 7_00002225 | 1        | -  | 4  | -  | 22-25   | 8,5            | 100                |
| 7_00002327 | 1        | -  | -  | -  | 23-27   | 8,5            | 100                |
| 7_00002528 | 1        | -  | -  | -  | 25-28   | 9              | 100                |
| 7_00002831 | 1        | -  | -  | -  | 28-31   | 9              | 100                |
| 7_00003134 | 1        | -  | -  | -  | 31-34   | 9,5            | 100                |
| 7_00003437 | 1        | -  | -  | -  | 34-37   | 9,5            | 100                |
| 7-00003740 | 1        | -  | -  | -  | 37-40   | 10             | 100                |
| 7_00004043 | 1        | -  | -  | -  | 40-43   | 10             | 100                |
| 7_00004346 | 1        | -  | -  | -  | 43-46   | 10,5           | 100                |



Order example:

Art.no. 7 1/2/4/5 0000 05-07



By greater dimensions, we recommend our endless band (EB) with loose headers or our fastening clamp with folding housing (VF).

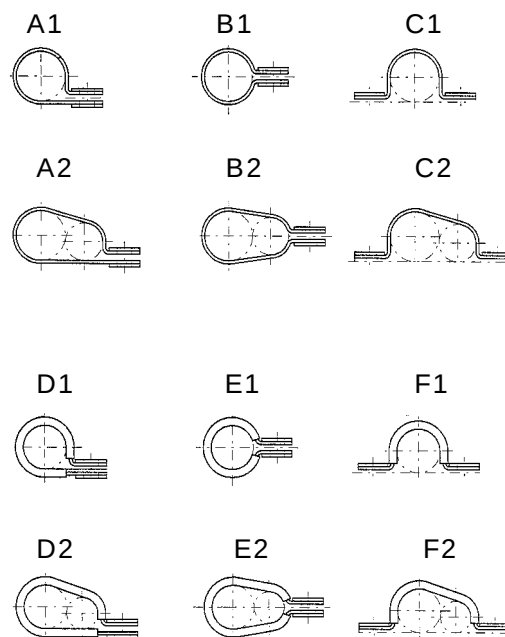
## Hose clips and pipe clips

Clamp retainers „RS “ (without elastomer profile)  
„RSGU “ (with elastomer profile)

| Art. no.  | Material |    |    |    | Pipe Ø<br>in mm | Width<br>in mm | Package<br>content |
|-----------|----------|----|----|----|-----------------|----------------|--------------------|
|           | W1       | W2 | W4 | W5 |                 |                |                    |
| 8 12 0005 | 1        | -  | 4  | 5  | 5               | 12             | 100                |
| 8 12 0006 | 1        | -  | 4  | 5  | 6               | 12             | 100                |
| 8 12 0007 | 1        | -  | 4  | 5  | 7               | 12             | 100                |
| 8 12 0008 | 1        | -  | 4  | 5  | 8               | 12             | 100                |
| 8 12 0009 | 1        | -  | 4  | 5  | 9               | 12             | 100                |
| 8 12 0010 | 1        | -  | 4  | 5  | 10              | 12             | 100                |
| 8 12 0011 | 1        | -  | 4  | 5  | 11              | 12             | 100                |
| 8 12 0012 | 1        | -  | 4  | 5  | 12              | 12             | 100                |
| 8 12 0013 | 1        | -  | 4  | 5  | 13              | 12             | 100                |
| 8 12 0014 | 1        | -  | 4  | 5  | 14              | 12             | 100                |
| 8 12 0015 | 1        | -  | 4  | 5  | 15              | 12             | 100                |
| 8 12 0016 | 1        | -  | 4  | 5  | 16              | 12             | 100                |
| 8 12 0017 | 1        | -  | 4  | 5  | 17              | 12             | 100                |
| 8 12 0018 | 1        | -  | 4  | 5  | 18              | 12             | 100                |
| 8 12 0019 | 1        | -  | 4  | 5  | 19              | 12             | 100                |
| 8 12 0020 | 1        | -  | 4  | 5  | 20              | 12             | 100                |
| 8 12 0021 | 1        | -  | 4  | 5  | 21              | 12             | 100                |
| 8 12 0022 | 1        | -  | 4  | 5  | 22              | 12             | 100                |
| 8 12 0023 | 1        | -  | 4  | 5  | 23              | 12             | 100                |
| 8 12 0024 | 1        | -  | 4  | 5  | 24              | 12             | 100                |
| 8 12 0025 | 1        | -  | 4  | 5  | 25              | 12             | 100                |
| 8 12 0026 | 1        | -  | 4  | 5  | 26              | 12             | 100                |
| 8 12 0027 | 1        | -  | 4  | 5  | 27              | 12             | 100                |
| 8 12 0028 | 1        | -  | 4  | 5  | 28              | 12             | 100                |
| 8 12 0029 | 1        | -  | 4  | 5  | 29              | 12             | 100                |
| 8 12 0030 | 1        | -  | 4  | 5  | 30              | 12             | 100                |

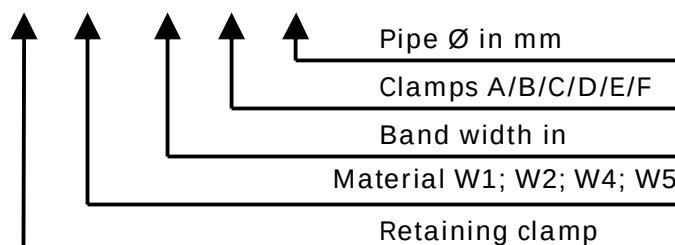


Please insert the art. no. on the enquiry / order according to the form and material of the product.



Order example:

Art.no. 8 1/2/4/5 12 A100 05



Further sizes and materials are available on enquiry.

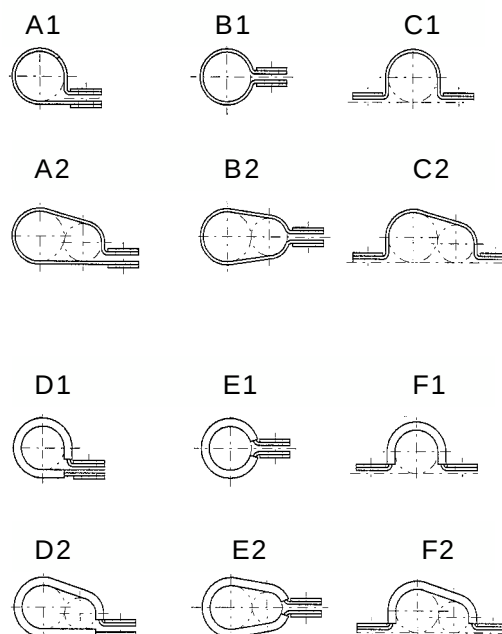
## hose clips and pipe clips

Clamp retainers „RS “ (without elastomer profile)  
„RSGU “ (with elastomer profile)

| Art. no.  | Material |    |    |    | Pipe Ø<br>in mm | Width<br>in mm | Package<br>content |
|-----------|----------|----|----|----|-----------------|----------------|--------------------|
|           | W1       | W2 | W4 | W5 |                 |                |                    |
| 8 15 0005 | 1        | -  | 4  | 5  | 5               | 15             | 100                |
| 8 15 0006 | 1        | -  | 4  | 5  | 6               | 15             | 100                |
| 8 15 0007 | 1        | -  | 4  | 5  | 7               | 15             | 100                |
| 8 15 0008 | 1        | -  | 4  | 5  | 8               | 15             | 100                |
| 8 15 0009 | 1        | -  | 4  | 5  | 9               | 15             | 100                |
| 8 15 0010 | 1        | -  | 4  | 5  | 10              | 15             | 100                |
| 8 15 0011 | 1        | -  | 4  | 5  | 11              | 15             | 100                |
| 8 15 0012 | 1        | -  | 4  | 5  | 12              | 15             | 100                |
| 8 15 0013 | 1        | -  | 4  | 5  | 13              | 15             | 100                |
| 8 15 0014 | 1        | -  | 4  | 5  | 14              | 15             | 100                |
| 8 15 0015 | 1        | -  | 4  | 5  | 15              | 15             | 100                |
| 8 15 0016 | 1        | -  | 4  | 5  | 16              | 15             | 100                |
| 8 15 0017 | 1        | -  | 4  | 5  | 17              | 15             | 100                |
| 8 15 0018 | 1        | -  | 4  | 5  | 18              | 15             | 100                |
| 8 15 0019 | 1        | -  | 4  | 5  | 19              | 15             | 100                |
| 8 15 0020 | 1        | -  | 4  | 5  | 20              | 15             | 100                |
| 8 15 0021 | 1        | -  | 4  | 5  | 21              | 15             | 100                |
| 8 15 0022 | 1        | -  | 4  | 5  | 22              | 15             | 100                |
| 8 15 0023 | 1        | -  | 4  | 5  | 23              | 15             | 100                |
| 8 15 0024 | 1        | -  | 4  | 5  | 24              | 15             | 100                |
| 8 15 0025 | 1        | -  | 4  | 5  | 25              | 15             | 100                |
| 8 15 0026 | 1        | -  | 4  | 5  | 26              | 15             | 100                |
| 8 15 0027 | 1        | -  | 4  | 5  | 27              | 15             | 100                |
| 8 15 0028 | 1        | -  | 4  | 5  | 28              | 15             | 100                |
| 8 15 0029 | 1        | -  | 4  | 5  | 29              | 15             | 100                |
| 8 15 0030 | 1        | -  | 4  | 5  | 30              | 15             | 100                |
| 8 15 0031 | 1        | -  | 4  | 5  | 31              | 15             | 100                |
| 8 15 0032 | 1        | -  | 4  | 5  | 32              | 15             | 100                |
| 8 15 0033 | 1        | -  | 4  | 5  | 33              | 15             | 100                |
| 8 15 0034 | 1        | -  | 4  | 5  | 34              | 15             | 100                |
| 8 15 0035 | 1        | -  | 4  | 5  | 35              | 15             | 100                |
| 8 15 0036 | 1        | -  | 4  | 5  | 36              | 15             | 100                |
| 8 15 0037 | 1        | -  | 4  | 5  | 37              | 15             | 100                |
| 8 15 0038 | 1        | -  | 4  | 5  | 38              | 15             | 100                |
| 8 15 0039 | 1        | -  | 4  | 5  | 39              | 15             | 100                |
| 8 15 0040 | 1        | -  | 4  | 5  | 40              | 15             | 100                |



Please insert the art. no. on the enquiry /  
order according to the form and material of  
the product.



Further sizes and materials are available on enquiry.

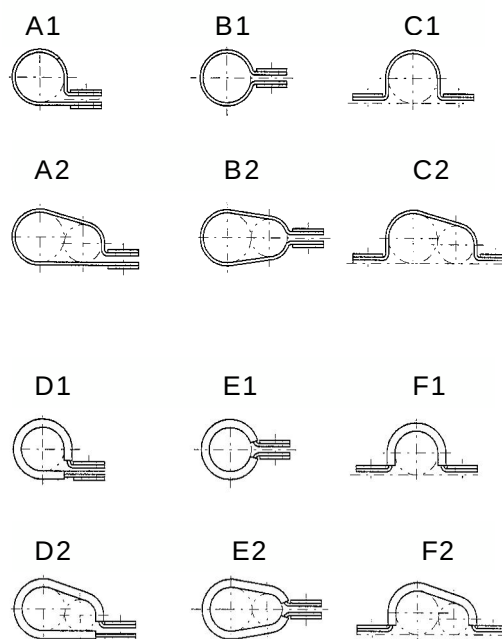
## Hose clips and pipe clips

Clamp retainers „RS “ (without elastomer profile)  
„RSGU “ (with elastomer profile)

| Art. no.  | Material |    |    |    | Pipe Ø<br>in mm | Width<br>in mm | Package<br>content |
|-----------|----------|----|----|----|-----------------|----------------|--------------------|
|           | W1       | W2 | W4 | W5 |                 |                |                    |
| 8 20 0008 | 1        | -  | 4  | 5  | 8               | 20             | 100                |
| 8 20 0009 | 1        | -  | 4  | 5  | 9               | 20             | 100                |
| 8 20 0010 | 1        | -  | 4  | 5  | 10              | 20             | 100                |
| 8 20 0011 | 1        | -  | 4  | 5  | 11              | 20             | 100                |
| 8 20 0012 | 1        | -  | 4  | 5  | 12              | 20             | 100                |
| 8 20 0013 | 1        | -  | 4  | 5  | 13              | 20             | 100                |
| 8 20 0014 | 1        | -  | 4  | 5  | 14              | 20             | 100                |
| 8 20 0015 | 1        | -  | 4  | 5  | 15              | 20             | 100                |
| 8 20 0016 | 1        | -  | 4  | 5  | 16              | 20             | 100                |
| 8 20 0017 | 1        | -  | 4  | 5  | 17              | 20             | 100                |
| 8 20 0018 | 1        | -  | 4  | 5  | 18              | 20             | 100                |
| 8 20 0019 | 1        | -  | 4  | 5  | 19              | 20             | 100                |
| 8 20 0020 | 1        | -  | 4  | 5  | 20              | 20             | 100                |
| 8 20 0021 | 1        | -  | 4  | 5  | 21              | 20             | 100                |
| 8 20 0022 | 1        | -  | 4  | 5  | 22              | 20             | 100                |
| 8 20 0023 | 1        | -  | 4  | 5  | 23              | 20             | 100                |
| 8 20 0024 | 1        | -  | 4  | 5  | 24              | 20             | 100                |
| 8 20 0025 | 1        | -  | 4  | 5  | 25              | 20             | 100                |
| 8 20 0026 | 1        | -  | 4  | 5  | 26              | 20             | 100                |
| 8 20 0027 | 1        | -  | 4  | 5  | 27              | 20             | 100                |
| 8 20 0028 | 1        | -  | 4  | 5  | 28              | 20             | 100                |
| 8 20 0029 | 1        | -  | 4  | 5  | 29              | 20             | 100                |
| 8 20 0030 | 1        | -  | 4  | 5  | 30              | 20             | 100                |
| 8 20 0031 | 1        | -  | 4  | 5  | 31              | 20             | 100                |
| 8 20 0032 | 1        | -  | 4  | 5  | 32              | 20             | 100                |
| 8 20 0033 | 1        | -  | 4  | 5  | 33              | 20             | 100                |
| 8 20 0034 | 1        | -  | 4  | 5  | 34              | 20             | 100                |
| 8 20 0035 | 1        | -  | 4  | 5  | 35              | 20             | 100                |
| 8 20 0036 | 1        | -  | 4  | 5  | 36              | 20             | 100                |
| 8 20 0037 | 1        | -  | 4  | 5  | 37              | 20             | 100                |
| 8 20 0038 | 1        | -  | 4  | 5  | 38              | 20             | 100                |
| 8 20 0039 | 1        | -  | 4  | 5  | 39              | 20             | 100                |
| 8 20 0040 | 1        | -  | 4  | 5  | 40              | 20             | 100                |

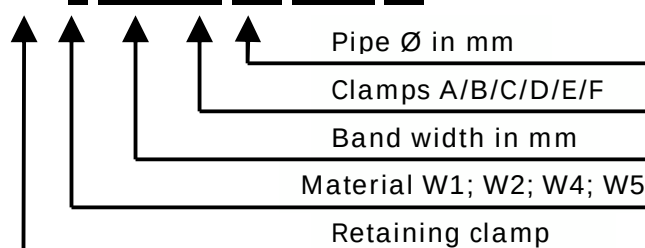


Please insert the art. no. on the enquiry / order according to the form and material of the product.



Order example:

Art.no. 8 1/2/4/5 12 A100 05





## hose clips and pipe clips

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[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)

# HoKon

VERSCHLUSSTECHNIK &  
SONDERKONSTRUKTIONEN

Zertifiziert nach DIN EN ISO 9001:2008



Box handles with  
return spring

Pull handles  
Plastic handles

Drop handles



Management  
System  
ISO 9001:2015  
ISO 14001:2015

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## FOLDER 3 HANDLES

FOLDER 1 LATCHES

FOLDER 2 TENSION BANDS

FOLDER 3 HANDLES

|                                        |      |
|----------------------------------------|------|
| BOX HANDLES.....                       | D    |
| • DROP HANDLES .....                   | D-1  |
| • BOX HANDLES WITH RETURN SPRING.....  | D-21 |
| • PULL HANDLES .....                   | D-41 |
| • PLASTIC HANDLE AND SHELL GRIPS ..... | D-51 |
| • LASHING LUGS.....                    | D-61 |

FOLDER 4 HINGES

FOLDER 5 LOCKING DEVICES

FOLDER 6 THREADED INSERTS

FOLDER 7 SUNDRIES

GENERAL TERMS AND CONDITIONS.....



## Drop handles



Art.:1054



Art.:1055



Art.:3101



Art.:2130



Art.:2134



Art.:2135



Art.:3102



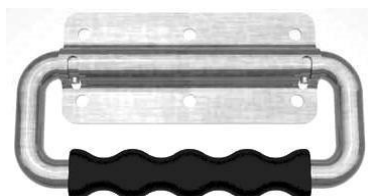
Art.:3120



Art.:3512



Art.:100.H1030



Art.:100.H1079



Art.:100.HE2457





## Drop handles



Art.:6407



Art.:6431



Art.:6440



Art.:6442



Art.:6444



Art.:6451



Art.:6457.03



Art.:6457.04



Art.:6457.05



Art.:6460.01



Art.:6460.06





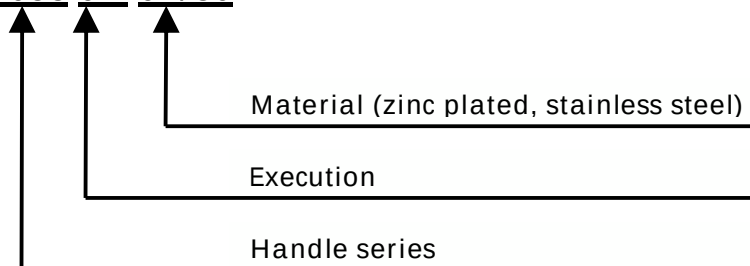
## Drop handles

### Materials and surface finishes:

|     |                                             |
|-----|---------------------------------------------|
| .00 | Raw steel                                   |
| .01 | Nickel-plated                               |
| .02 | Brassed                                     |
| .03 | Chromated                                   |
| .04 | Zinc plated steel                           |
| .05 | Bronzed                                     |
| .06 | Black zinc plated                           |
| .07 | Brunished                                   |
| .08 | Yellow chromated                            |
| .09 | EPD (Electrophoretic deposition)            |
| .10 | Anodized silver-coloured                    |
| .20 | Raw brass                                   |
| .22 | Polished brass                              |
| .23 | Chromated brass                             |
| .30 | Raw stainless steel (1.4301)                |
| .33 | Polished stainless steel                    |
| .35 | Raw stainless steel (1.4401)                |
| .50 | Raw Zamak (zinc aluminium magnesium copper) |
| .70 | Raw aluminium                               |
| .80 | Raw polyamide                               |

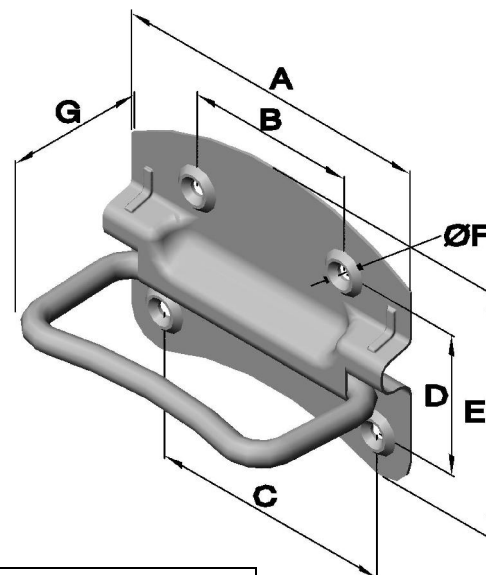
### Ordering example:

Art.No. 1053 01. 04/30



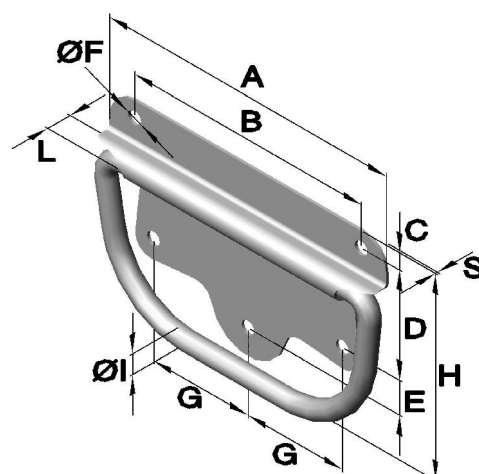
## Drop handles

Art. no.: 1054 (drilled and countersunk)



| Article no. |           | Dimensions in mm |             |       |     |    |    |    |    |     |    |
|-------------|-----------|------------------|-------------|-------|-----|----|----|----|----|-----|----|
| Series      | Execution | Material         |             |       | A   | B  | C  | D  | E  | Ø F | G  |
|             |           | Brassed          | Zinc plated | Blued |     |    |    |    |    |     |    |
|             |           | Steel            | Steel       | Steel |     |    |    |    |    |     |    |
| 1054        | .09       | .02              | .04         | .07   | 90  | 42 | 72 | 40 | 67 | 4.2 | 40 |
| 1054        | .11       | .02              | .04         | .07   | 110 | 57 | 84 | 48 | 84 | 4.5 | 55 |

Art. no.: 1055 (drilled)

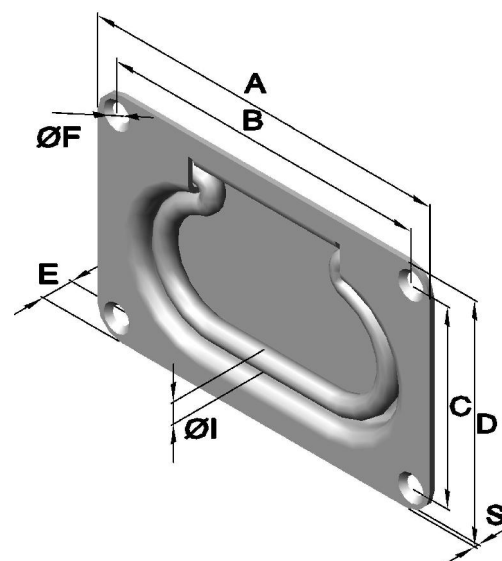


| Article no. |           | Dimensions in mm |             |       |     |    |   |    |    |     |      |      |     |   |   |
|-------------|-----------|------------------|-------------|-------|-----|----|---|----|----|-----|------|------|-----|---|---|
| Series      | Execution | Material         |             |       | A   | B  | C | D  | E  | Ø F | G    | H    | Ø I | L | S |
|             |           | Brassed          | Zinc plated | Blued |     |    |   |    |    |     |      |      |     |   |   |
|             |           | Steel            | Steel       | Steel |     |    |   |    |    |     |      |      |     |   |   |
| 1055        | .08       | .02              | .04         | .07   | 80  | 66 | 7 | 24 | 7  | 4   | 27   | 56   | 6   | 9 | 1 |
| 1055        | .09       | .02              | .04         | .07   | 90  | 75 | 6 | 31 | 8  | 4.4 | 30   | 61   | 6.5 | 9 | 1 |
| 1055        | .10       | .02              | .04         | .07   | 100 | 80 | 7 | 30 | 10 | 4.4 | 32.5 | 62.5 | 6.5 | 9 | 1 |
| 1055        | .11       | .02              | .04         | .07   | 110 | 90 | 6 | 38 | 12 | 5   | 37.5 | 66.5 | 7   | 9 | 1 |

## Drop handles

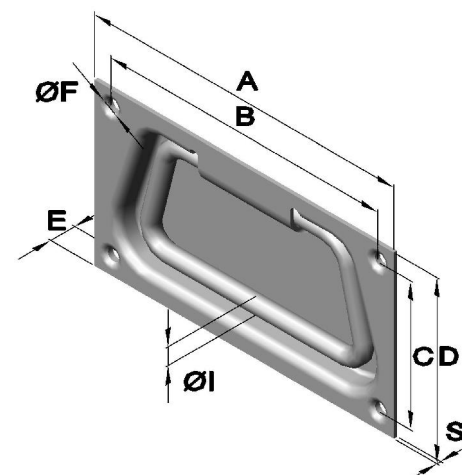
Art. no.: 2130 (drilled and countersunk)

| Article no. |             | Dimensions in mm |     |    |    |    |     |     |   |
|-------------|-------------|------------------|-----|----|----|----|-----|-----|---|
| Series      | Material    | A                | B   | C  | D  | E  | Ø F | Ø I | S |
|             | Zinc plated |                  |     |    |    |    |     |     |   |
|             | Steel       |                  |     |    |    |    |     |     |   |
| 2130        | .04         | 140              | 124 | 74 | 90 | 12 | 7   | 8   | 2 |



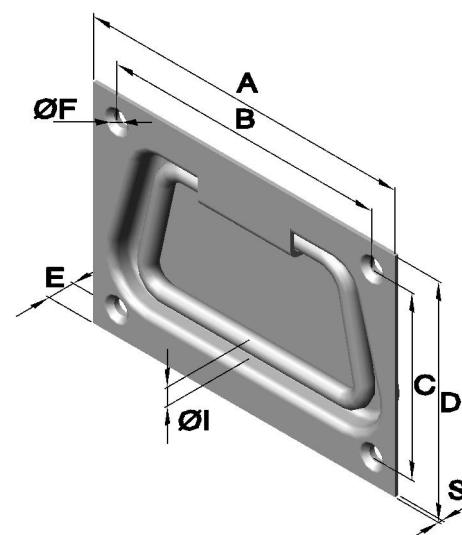
Art. no.: 2134 (drilled and countersunk)

| Article no. |             |                 | Dimensions in mm |     |    |    |      |     |     |     |
|-------------|-------------|-----------------|------------------|-----|----|----|------|-----|-----|-----|
| Series      | Material    |                 | A                | B   | C  | D  | E    | Ø F | Ø I | S   |
|             | Zinc plated | Raw             |                  |     |    |    |      |     |     |     |
|             | Steel       | Stainless steel |                  |     |    |    |      |     |     |     |
| 2134        | .04         | .30             | 130              | 116 | 56 | 70 | 11.5 | 5   | 7   | 1.5 |



Art. no.: 2135 (drilled and countersunk)

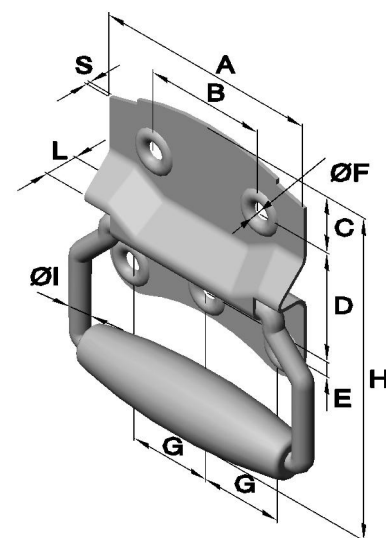
| Article no. |             | Dimensions in mm |     |    |    |    |     |     |     |
|-------------|-------------|------------------|-----|----|----|----|-----|-----|-----|
| Series      | Material    | A                | B   | C  | D  | E  | Ø F | Ø I | S   |
|             | Zinc plated |                  |     |    |    |    |     |     |     |
|             | Steel       |                  |     |    |    |    |     |     |     |
| 2135        | .04         | 130              | 110 | 70 | 90 | 12 | 6   | 7   | 1.5 |



## Drop handles

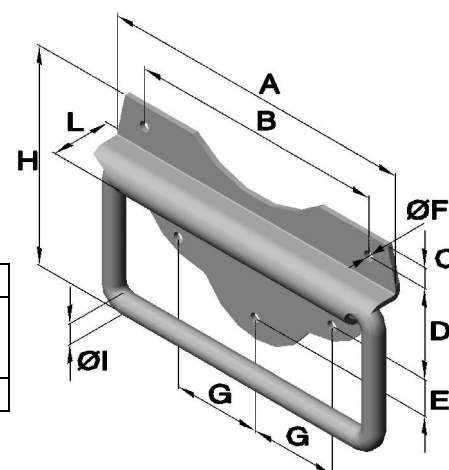
Art. no.: 3101 (drilled and countersunk)

| Article no. |             |             |                  | Dimensions in mm |    |    |    |   |    |    |     |    |      |     |
|-------------|-------------|-------------|------------------|------------------|----|----|----|---|----|----|-----|----|------|-----|
| Series      | Material    |             |                  | A                | B  | C  | D  | E | ØF | G  | H   | ØI | L    | S   |
|             | Zinc plated | Black blued | Yellow chromated |                  |    |    |    |   |    |    |     |    |      |     |
|             | Steel       | Steel       | Steel            |                  |    |    |    |   |    |    |     |    |      |     |
| 3101        | .04         | .07         | .08              | 92               | 50 | 23 | 45 | 6 | 7  | 36 | 128 | 8  | 17,5 | 1,5 |



Art. no.: 3102 (drilled)

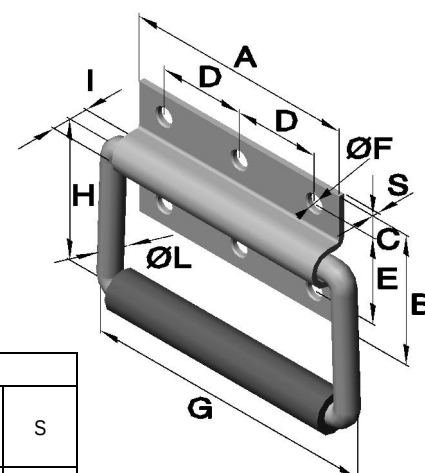
| Article no. |             | Dimensions in mm |    |   |    |    |    |    |    |    |      |
|-------------|-------------|------------------|----|---|----|----|----|----|----|----|------|
| Series      | Material    | A                | B  | C | D  | E  | ØF | G  | H  | ØI | L    |
|             | Zinc plated |                  |    |   |    |    |    |    |    |    |      |
|             | Steel       |                  |    |   |    |    |    |    |    |    |      |
| 3102        | .04         | 123              | 98 | 8 | 35 | 14 | 4  | 34 | 74 | 8  | 14,5 |



Art. no.: 3119/3122 (drilled and countersunk)

Art. no.: 3120 (drilled and countersunk)  
with rubber hose

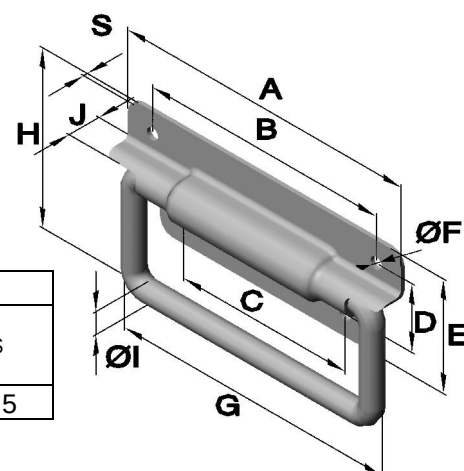
| Article no. |             | Dimensions in mm |    |     |    |    |     |     |    |    |    |     |
|-------------|-------------|------------------|----|-----|----|----|-----|-----|----|----|----|-----|
| Series      | Material    | A                | B  | C   | D  | E  | ØF  | G   | H  | I  | ØL | S   |
|             | Zinc plated |                  |    |     |    |    |     |     |    |    |    |     |
|             | Steel       |                  |    |     |    |    |     |     |    |    |    |     |
| 3119        | .04         | 80               | 45 | 7,5 | 60 | 30 | 2x5 | 103 | 57 | 13 | 8  | 1,5 |
| 3120        | .04         | 122              | 47 | 7   | 52 | 33 | 3x6 | 145 | 57 | 12 | 8  | 1,5 |
| 3122        | .04         | 122              | 47 | 7   | 52 | 33 | 3x6 | 145 | 57 | 12 | 8  | 1,5 |



## Drop handles

Art. no.: **3510** (drilled)

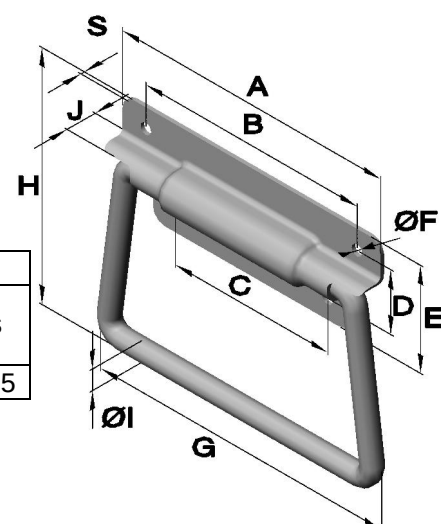
available on request  
with return springs



| Article no. |             | Dimensions in mm |    |    |    |    |    |     |    |    |    |     |
|-------------|-------------|------------------|----|----|----|----|----|-----|----|----|----|-----|
| Series      | Material    | A                | B  | C  | D  | E  | ØF | G   | H  | ØI | J  | S   |
|             | Zinc plated |                  |    |    |    |    |    |     |    |    |    |     |
|             | Steel       |                  |    |    |    |    |    |     |    |    |    |     |
| 3510        | .04         | 110              | 90 | 65 | 25 | 40 | 5  | 100 | 63 | 6  | 13 | 1,5 |

Art. no.: **3511** (drilled)

Different drop handles  
available on request

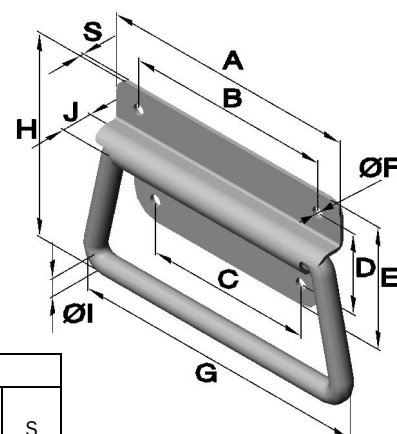


| Article no. |             | Dimensions in mm |    |    |    |    |    |     |    |    |    |     |
|-------------|-------------|------------------|----|----|----|----|----|-----|----|----|----|-----|
| Series      | Material    | A                | B  | C  | D  | E  | ØF | G   | H  | ØI | J  | S   |
|             | Zinc plated |                  |    |    |    |    |    |     |    |    |    |     |
|             | Steel       |                  |    |    |    |    |    |     |    |    |    |     |
| 3511        | .04         | 110              | 90 | 65 | 25 | 40 | 5  | 121 | 88 | 6  | 13 | 1,5 |

art. no.: **3512** (drilled)

Different drop handles  
available on request

Maximum load: ca.25 kg



| Article no. |             |                 | Dimensions in mm |    |    |      |      |     |     |    |    |    |     |
|-------------|-------------|-----------------|------------------|----|----|------|------|-----|-----|----|----|----|-----|
| Series      | Material    |                 | A                | B  | C  | D    | E    | ØF  | G   | H  | ØI | J  | S   |
|             | Zinc plated | Raw             |                  |    |    |      |      |     |     |    |    |    |     |
|             | Steel       | Stainless steel |                  |    |    |      |      |     |     |    |    |    |     |
| 3512        | -           | .30             | 100              | 82 | 65 | 31,5 | 47,5 | 4,5 | 118 | 73 | 6  | 10 | 1,5 |
| 3512        | .04         | -               | 100              | 80 | 65 | 31,5 | 47,5 | 4,5 | 118 | 73 | 6  | 10 | 1,5 |



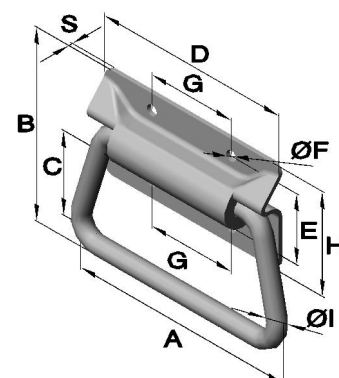
## Drop handles

Art. no.: 6407 (drilled)

Maximum load: max. 90 kg

Opening angle: up to 90°

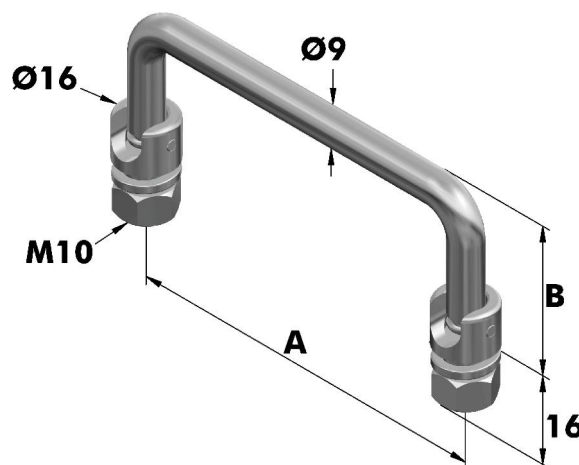
| Article no. |             | Dimensions in mm |      |    |      |      |     |      |      |     |     |
|-------------|-------------|------------------|------|----|------|------|-----|------|------|-----|-----|
| Series      | Material    | A                | B    | C  | D    | E    | ØF  | G    | H    | ØI  | S   |
|             | Zinc plated |                  |      |    |      |      |     |      |      |     |     |
|             | Steel       |                  |      |    |      |      |     |      |      |     |     |
| 6407        | .04         | 104,8            | 73,7 | 35 | 85,6 | 30,2 | 4,8 | 38,9 | 44,7 | 7,8 | 1,8 |



Art.no.: 6425

Opening stop by 90° precise positioning.

| Article no. |           |               | Dimensions in mm |      |
|-------------|-----------|---------------|------------------|------|
| Series      | Material  |               | A                | B    |
|             | Execution | Chrome plated |                  |      |
|             |           | Steel         |                  |      |
| 6425        | .01       | .03           | 100              | 41,5 |
| 6425        | .02       | .03           | 135              | 41,5 |



Art. no.: 6440 (drilled and countersunk)

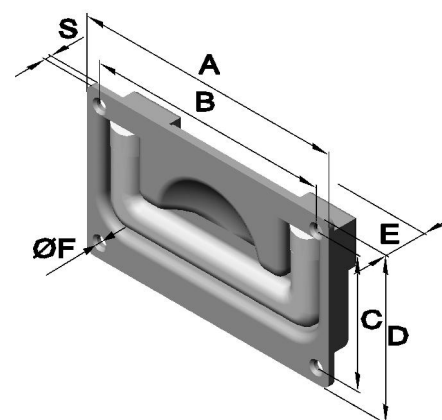
delivered in parts

Maximum load: max. 100 kg /pair

Opening angle: up to 90°

Installation opening: 97,5 x 47,5

| Article no. |           | Dimensions in mm |    |      |      |      |         |     |  |
|-------------|-----------|------------------|----|------|------|------|---------|-----|--|
| Series      | Material  | A                | B  | C    | D    | E    | ØF      | S   |  |
|             | Raw       |                  |    |      |      |      |         |     |  |
|             | Aluminium |                  |    |      |      |      |         |     |  |
| 6440        | .70       | 105              | 94 | 51,5 | 63,5 | 17,5 | 4,5x90° | 2,5 |  |

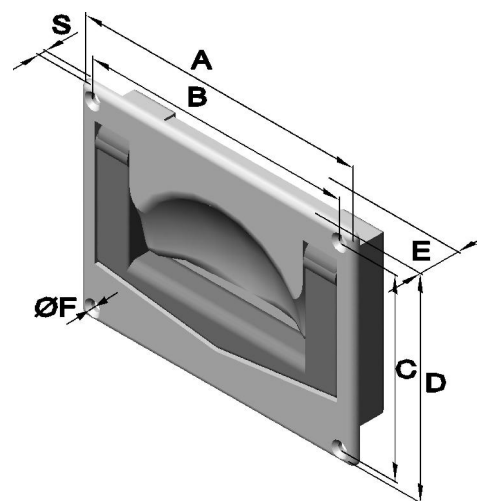


## Drop handles

**Art. no.: 6442** (drilled and countersunk)  
delivered in parts

Maximum load: max. 100 kg /pair  
Opening angle: up to 90°  
Installation opening: 110 x 70

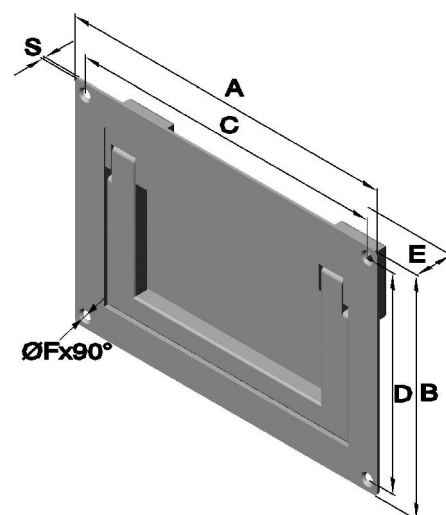
| Article no. |           | Dimensions in mm |     |    |    |    |         |     |
|-------------|-----------|------------------|-----|----|----|----|---------|-----|
| Series      | Material  | A                | B   | C  | D  | E  | ØF      | S   |
|             | Raw       |                  |     |    |    |    |         |     |
|             | Aluminium |                  |     |    |    |    |         |     |
| 6442        | .70       | 120              | 108 | 79 | 91 | 20 | 4,5x90° | 2,5 |



**Art. no.: 6444** (drilled and countersunk)  
delivered in parts

Maximum load: max. 100 kg /pair  
Opening angle: up to 90°  
Installation opening: 127 x 83

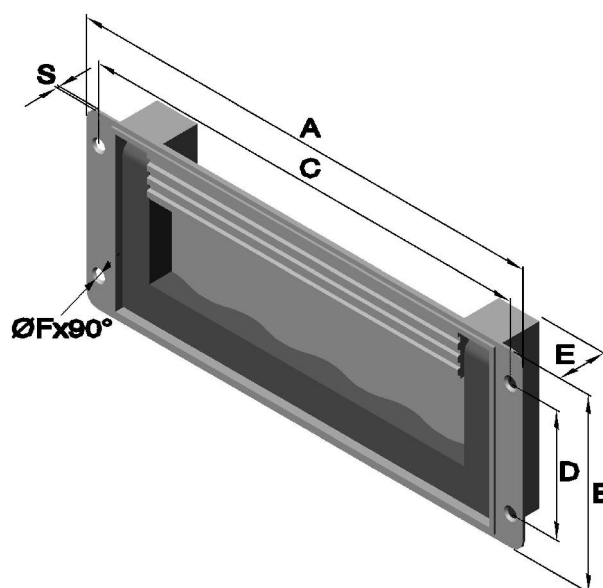
| Article no. |           |             | Dimensions in mm |     |     |    |    |     |     |
|-------------|-----------|-------------|------------------|-----|-----|----|----|-----|-----|
| Series      | Execution | Material    | A                | B   | C   | D  | E  | ØF  | S   |
|             |           | Zinc plated |                  |     |     |    |    |     |     |
| 6444        | .34       | Steel       | 150              | 105 | 140 | 95 | 17 | 4,3 | 1,2 |



**Art. no.: 6451** (drilled and countersunk)

Maximum load: max. 100 kg /pair  
Opening angle: up to 90°  
Installation opening: 171 x 73

| Article no. |                  | Dimensions in mm |    |     |    |      |     |     |
|-------------|------------------|------------------|----|-----|----|------|-----|-----|
| Series      | Material         | A                | B  | C   | D  | E    | ØF  | S   |
|             | Lacquered Silver |                  |    |     |    |      |     |     |
|             | Zamak            |                  |    |     |    |      |     |     |
| 6451        | .50              | 194              | 76 | 183 | 50 | 20,5 | 4,3 | 2,5 |

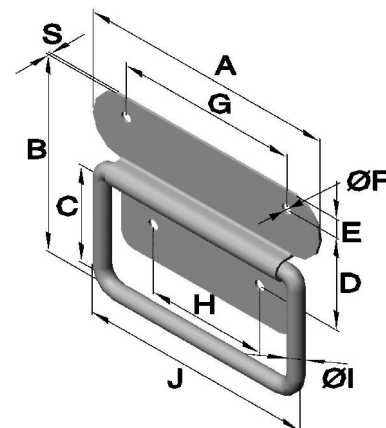


## Drop handles

Art. no.: 6457 (drilled)

Maximum load: max. 25 kg  
Opening angle: up to 80°

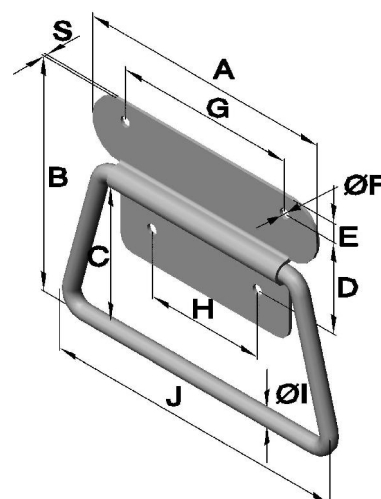
| Article no. |           |          |             | Dimensions in mm |    |    |    |   |    |    |    |    |    |   |
|-------------|-----------|----------|-------------|------------------|----|----|----|---|----|----|----|----|----|---|
| Series      | Execution | Material |             | A                | B  | C  | D  | E | ØF | G  | H  | ØI | J  | S |
|             |           | Raw      | Zinc plated |                  |    |    |    |   |    |    |    |    |    |   |
|             |           | Steel    | Steel       |                  |    |    |    |   |    |    |    |    |    |   |
| 6457        | .01       | .00      | -           | 96               | 61 | 37 | -  | - | -  | -  | -  | 6  | 88 | 1 |
| 6457        | .02       | -        | .04         | 96               | 61 | 37 | 34 | 7 | 4  | 68 | 45 | 6  | 88 | 1 |



Art. no.: 6457 (drilled)

Maximum load: max. 25 kg  
Opening angle: up to 80°

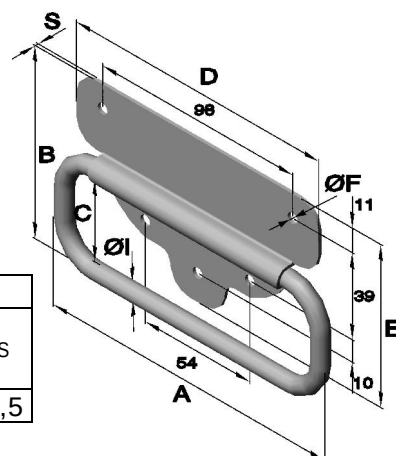
| Article no. |           |          |             | Dimensions in mm |    |    |    |   |    |    |    |    |     |   |
|-------------|-----------|----------|-------------|------------------|----|----|----|---|----|----|----|----|-----|---|
| Series      | Execution | Material |             | A                | B  | C  | D  | E | ØF | G  | H  | ØI | J   | S |
|             |           | Raw      | Zinc plated |                  |    |    |    |   |    |    |    |    |     |   |
|             |           | Steel    | Steel       |                  |    |    |    |   |    |    |    |    |     |   |
| 6457        | .03       | .00      | -           | 96               | 71 | 51 | -  | - | -  | -  | -  | 6  | 102 | 1 |
| 6457        | .03       | -        | .04         | 96               | 71 | 51 | 34 | 7 | 4  | 68 | 45 | 6  | 102 | 1 |



Art. no.: 6457 (drilled)

Maximum load: max. 60 kg  
Opening angle: up to 80°

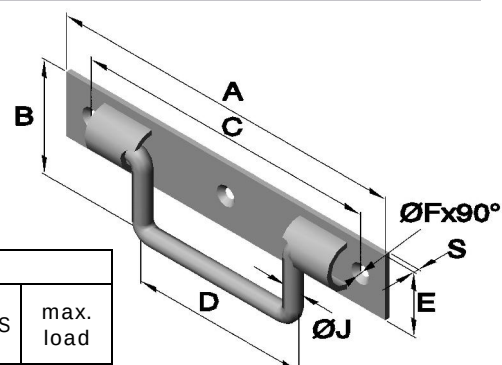
| Article no. |           |          |             | Dimensions in mm |    |    |     |    |    |    |     |
|-------------|-----------|----------|-------------|------------------|----|----|-----|----|----|----|-----|
| Series      | Execution | Material |             | A                | B  | C  | D   | E  | ØF | ØI | S   |
|             |           | Raw      | Zinc plated |                  |    |    |     |    |    |    |     |
|             |           | Steel    | Steel       |                  |    |    |     |    |    |    |     |
| 6457        | 04        | 00       | 04          | 140              | 87 | 38 | 125 | 73 | 5  | 8  | 1 5 |



## Drop handles

Art. no.: 6460 (drilled and countersunk)

Opening angle: up to 90°

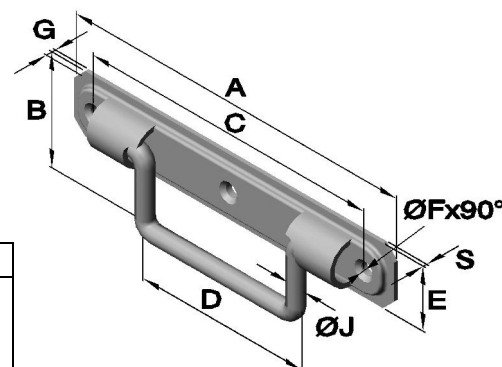


| Article no. |           |          |             | Dimensions in mm |      |     |      |    |     |    |   |              |
|-------------|-----------|----------|-------------|------------------|------|-----|------|----|-----|----|---|--------------|
| Series      | Execution | Material |             | A                | B    | C   | D    | E  | ØF  | ØJ | S | max.<br>load |
|             |           | 1.1203   | Zinc plated |                  |      |     |      |    |     |    |   |              |
|             |           | Steel    | Steel       |                  |      |     |      |    |     |    |   |              |
| 6460        | .01       | .00      | -           | 142              | 44,5 | 120 | 74   | 25 | 5,2 | 7  | 2 | 35kg         |
| 6460        | .02       | .00      | -           | 160              | 49,6 | 138 | 93,5 | 25 | 5,2 | 8  | 2 | 35kg         |
| 6460        | .03       | .00      | -           | 187              | 49,6 | 162 | 109  | 25 | 5,2 | 8  | 2 | 35kg         |
| 6460        | .04       | -        | .04         | 142              | 44,5 | 120 | 74   | 25 | 5,2 | 7  | 2 | 45kg         |
| 6460        | .05       | -        | .04         | 160              | 49,6 | 138 | 93,5 | 25 | 5,2 | 8  | 2 | 45kg         |
| 6460        | .07       | -        | .04         | 187              | 49,6 | 162 | 109  | 25 | 5,2 | 8  | 2 | 45kg         |

Art. no.: 6460 (drilled and countersunk)

Maximum load: max. 35 kg

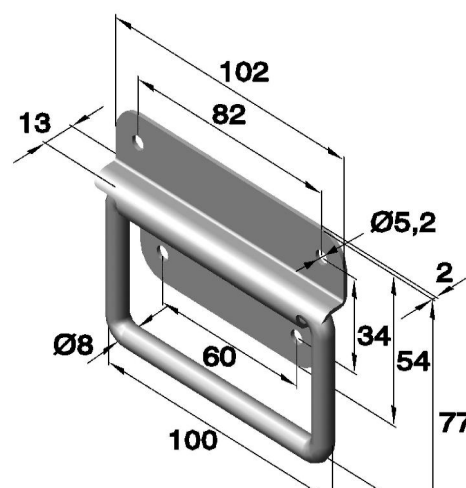
Opening angle: up to 90°



| Article no. |           |                 | Dimensions in mm |    |     |    |    |     |   |    |     |  |
|-------------|-----------|-----------------|------------------|----|-----|----|----|-----|---|----|-----|--|
| Series      | Execution | Material        | A                | B  | C   | D  | E  | ØF  | G | ØJ | S   |  |
|             |           | Raw             |                  |    |     |    |    |     |   |    |     |  |
|             |           | Stainless steel |                  |    |     |    |    |     |   |    |     |  |
| 6460        | .06       | .30             | 160              | 54 | 130 | 89 | 30 | 5.2 | 4 | 7  | 1.5 |  |

Art. no.: 100.H1030 (drilled)

Opening angle: up to 90°



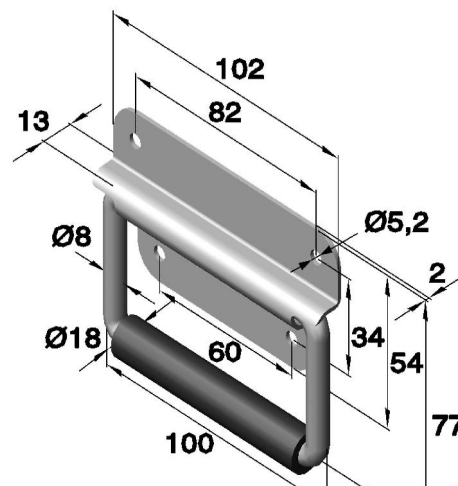
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.H1030   | .04         |

## Drop handles

Art. no.: 100.H1030R (drilled)

Opening angle: up to 90°

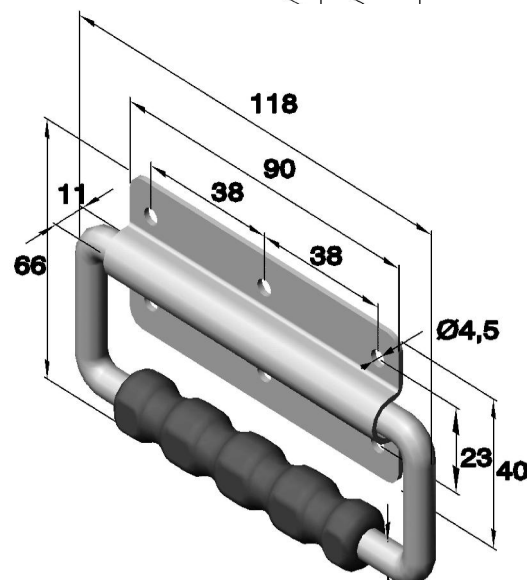
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
| 100.H1030R  | Steel       |
|             | .04         |



Art. no.: 100.H1079 (drilled)

Opening angle: up to 90°

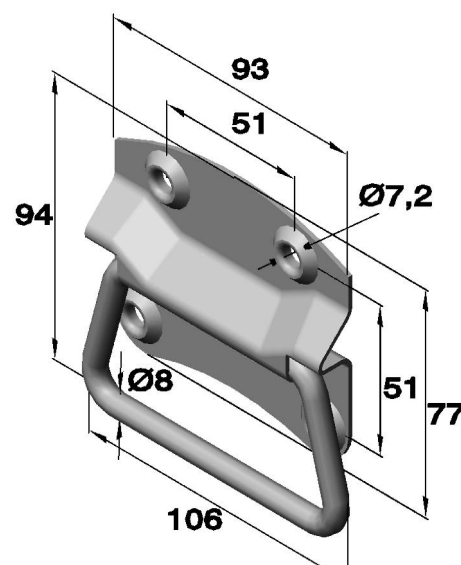
| Article no. |           |
|-------------|-----------|
| Series      | Material  |
|             | Raw       |
| 100.H1079   | Aluminium |



Art. no.: 100.HE-2457 (drilled)

Opening angle: up to 90°

| Article no. |            |
|-------------|------------|
| Series      | Material   |
|             | Zincplated |
| 100.HE-2457 | Steel      |
|             | .04        |







## Box handles with return spring



Art.:3103



Art.:6401



Art.:6402



Art.:3510



Art.:6403.04



Art.:6403.05



Art.:6405



Art.:6415



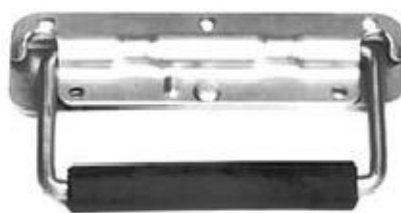
Art.:6419



## Box handles with return spring



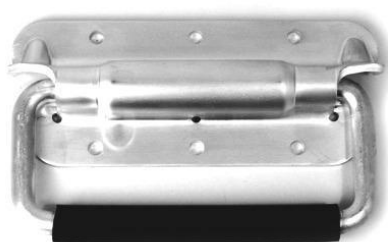
Art.:100.H1033Z



Art.:100.H10527



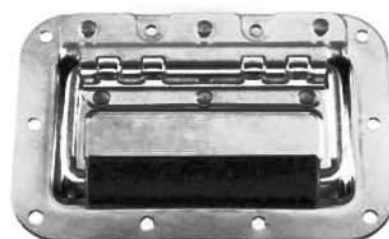
Art.:100.H1078



Art.:100.HE-2341AL



Art.:100.H8154



Art.:100.H1054



Art.:100.H2751



Art.:100.H1065

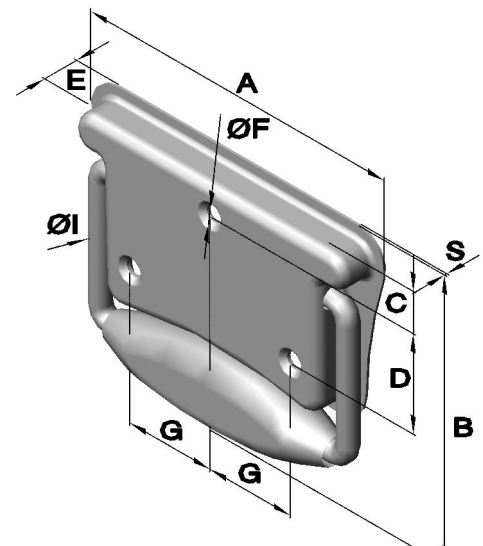


Art.:100.H7148



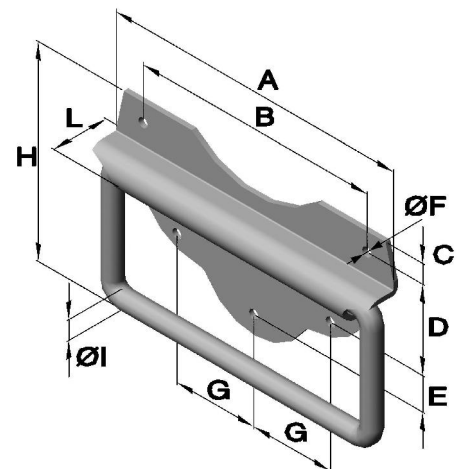
## Box handles with return spring

Art. no.: **3103** (drilled and countersunk)  
with return spring



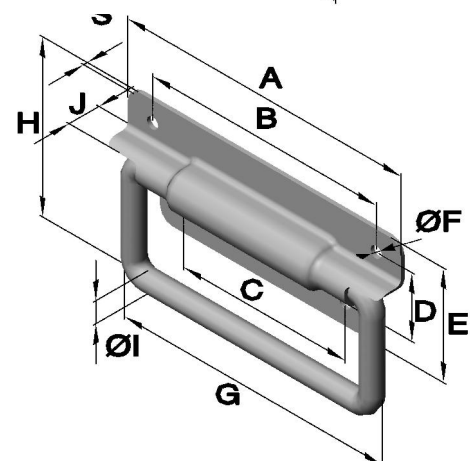
| Article no. |             | Dimensions in mm |    |    |    |    |     |    |    |     |
|-------------|-------------|------------------|----|----|----|----|-----|----|----|-----|
| Series      | Material    | A                | B  | C  | D  | E  | ØF  | G  | ØI | S   |
|             | Zinc plated |                  |    |    |    |    |     |    |    |     |
|             | Steel       |                  |    |    |    |    |     |    |    |     |
| 3103        | .04         | 128              | 90 | 16 | 38 | 14 | 6,4 | 35 | 8  | 1,5 |

Art. no.: **3112** (drilled)  
with return spring



| Article no. |             | Dimensions in mm |    |   |    |    |    |    |    |    |      |
|-------------|-------------|------------------|----|---|----|----|----|----|----|----|------|
| Series      | Material    | A                | B  | C | D  | E  | ØF | G  | H  | ØI | L    |
|             | Zinc plated |                  |    |   |    |    |    |    |    |    |      |
|             | Steel       |                  |    |   |    |    |    |    |    |    |      |
| 3112        | .04         | 123              | 98 | 8 | 35 | 14 | 4  | 34 | 74 | 8  | 14,5 |

Art. no.: **3510** (drilled)  
with return spring



| Article no. |             | Dimensions in mm |    |    |    |    |    |     |    |    |    |     |
|-------------|-------------|------------------|----|----|----|----|----|-----|----|----|----|-----|
| Series      | Material    | A                | B  | C  | D  | E  | ØF | G   | H  | ØI | J  | S   |
|             | Zinc plated |                  |    |    |    |    |    |     |    |    |    |     |
|             | Steel       |                  |    |    |    |    |    |     |    |    |    |     |
| 3510        | F.04        | 110              | 90 | 65 | 25 | 40 | 5  | 100 | 63 | 6  | 13 | 1,5 |

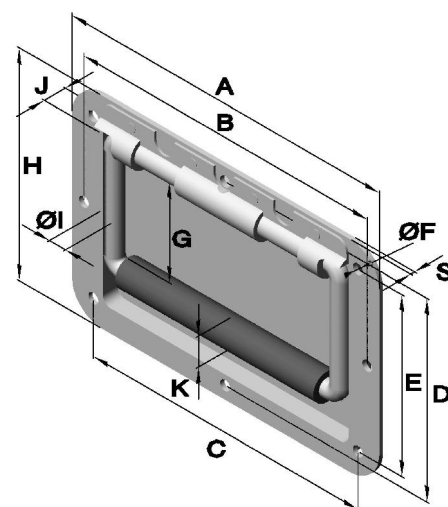
## Box handles with return spring

Art. no.: **6401** (drilled)  
with return spring

Maximum load: ca. 57 kg

Opening angle: up to 90°

Installation opening: 79 x 132



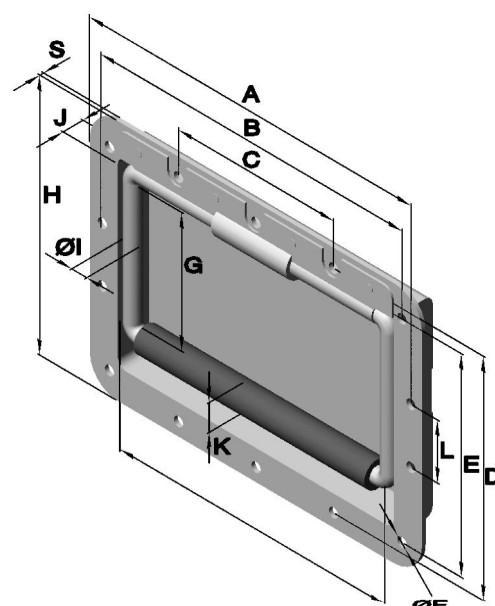
| Article no. |           |                   | Dimensions in mm |       |       |      |      |    |    |       |    |    |      |     |
|-------------|-----------|-------------------|------------------|-------|-------|------|------|----|----|-------|----|----|------|-----|
| Series      | Execution | Material<br>Steel | A                | B     | C     | D    | E    | ØF | G  | H     | ØI | J  | K    | S   |
| 6401        | -         | .04               | 155,5            | 142,7 | 133,3 | 84,1 | 73,4 | 5  | 46 | 101,6 | 8  | 11 | 13,5 | 1,6 |

Art. no.: **6402** (drilled)  
with return spring

Maximum load: ca. 67 kg

Opening angle: up to 90°

Installation opening: 99 x 146

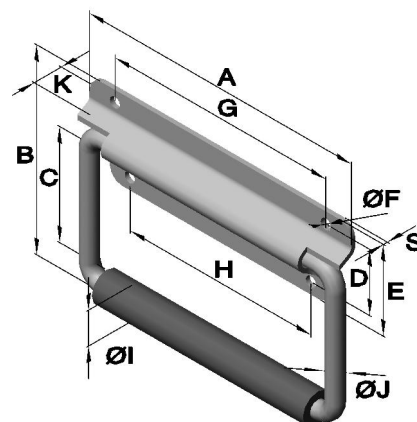


| Article no. |             |                       | Dimensions in mm |       |      |       |       |    |    |     |     |      |      |      |     |
|-------------|-------------|-----------------------|------------------|-------|------|-------|-------|----|----|-----|-----|------|------|------|-----|
| Series      | Material    |                       | A                | B     | C    | D     | E     | ØF | G  | H   | Ø I | J    | K    | L    | S   |
|             | Zinc plated | Epoxy<br>Black coated |                  |       |      |       |       |    |    |     |     |      |      |      |     |
|             | Steel       | Steel                 |                  |       |      |       |       |    |    |     |     |      |      |      |     |
| 6402        | .04         | .07                   | 177.8            | 155.6 | 82.6 | 113.5 | 103.9 | 5  | 62 | 127 | 8   | 19.8 | 13.5 | 34.9 | 1.6 |

## Box handles with return springs

Art. no.: **6403** (drilled)  
with return spring

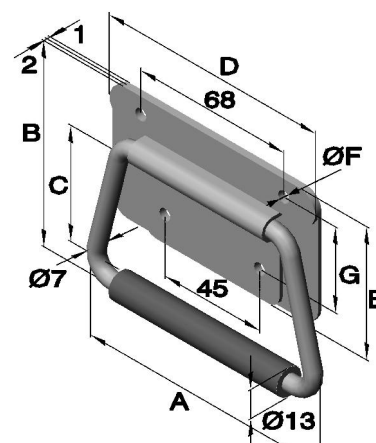
Maximum load: ca. 45 kg  
Opening angle: up to 90°



| Article no. |           |             |                 | Dimensions in mm |       |      |      |      |    |       |      |    |     |      |   |
|-------------|-----------|-------------|-----------------|------------------|-------|------|------|------|----|-------|------|----|-----|------|---|
| Series      | Execution | Material    |                 | A                | B     | C    | D    | E    | ØF | G     | H    | ØI | ØJ  | K    | S |
|             |           | Zinc plated | Raw             |                  |       |      |      |      |    |       |      |    |     |      |   |
|             |           | Steel       | Stainless steel |                  |       |      |      |      |    |       |      |    |     |      |   |
| 6403        | .05       | .04         | .30             | 130,3            | 104,1 | 60,4 | 28,6 | 41,9 | 5  | 104,8 | 88,9 | 15 | 7,8 | 12,7 | 2 |
| 6403        | .06       | .04         | .30             | 130,3            | 82,6  | 38,1 | 28,6 | 39,6 | 5  | 104,8 | 88,9 | 15 | 7,8 | 12,7 | 2 |

Art. no.: **6405** (drilled)  
with return spring

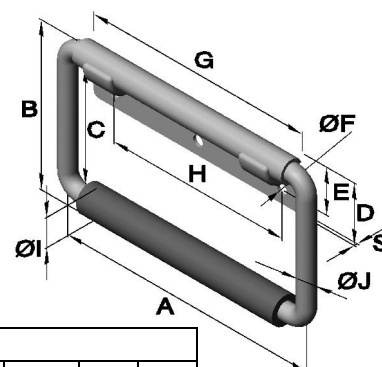
Maximum load: ca. 25 kg  
Opening angle: up to 70°



| Article no. |           |                  | Dimensions in mm |    |      |    |    |    |      |  |
|-------------|-----------|------------------|------------------|----|------|----|----|----|------|--|
| Series      | Execution | Material         | A                | B  | C    | D  | E  | ØF | G    |  |
|             |           | Yellow chromated |                  |    |      |    |    |    |      |  |
| 6405        | .08       | Steel            | 110              | 87 | 50,5 | 98 | 55 | 5  | 35,5 |  |

Art. no.: **6419** (drilled)  
with return spring

Maximum load: ca. 34 kg  
Opening angle: up to 180°



| Article no. |           |          |                 | Dimensions in mm |      |    |      |      |    |       |      |      |     |     |
|-------------|-----------|----------|-----------------|------------------|------|----|------|------|----|-------|------|------|-----|-----|
| Series      | Execution | Material |                 | A                | B    | C  | D    | E    | ØF | G     | H    | ØI   | ØJ  | S   |
|             |           | Blued    | Passivated      |                  |      |    |      |      |    |       |      |      |     |     |
|             |           | Steel    | Stainless steel |                  |      |    |      |      |    |       |      |      |     |     |
| 6419        | .01       | .07      | .30             | 130              | 75,4 | 46 | 27,7 | 21,4 | 5  | 106,7 | 85,8 | 13,5 | 7,8 | 1,5 |



## Box handles with return spring

Art. no.: 6415 (drilled)

with return spring  
and neoprene sheathing

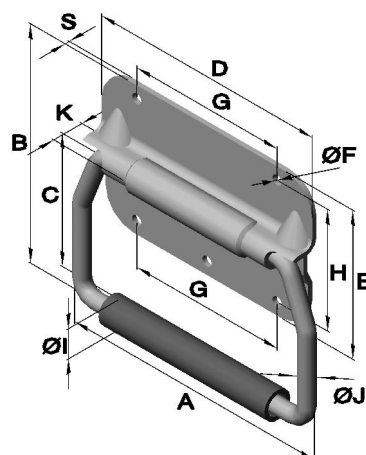
Maximum load:

Art. no.: 6415.01.30: ca. 54 kg

Art. no.: 6415.02.04: ca. 68 kg

Art. no.: 6415.03.04: ca. 68 kg

Opening angle: up to 90°

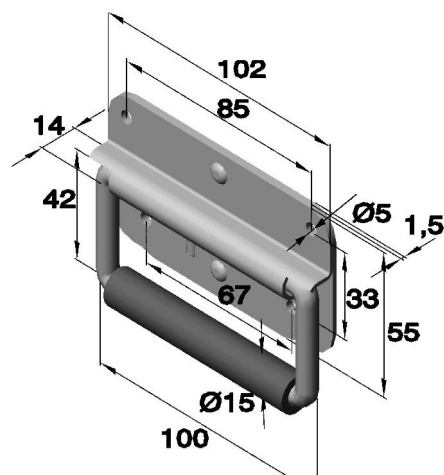


| Article no. |           |             |                 | Dimensions in mm |       |      |       |      |    |      |      |      |     |      |     |
|-------------|-----------|-------------|-----------------|------------------|-------|------|-------|------|----|------|------|------|-----|------|-----|
| Series      | Execution | Material    |                 | A                | B     | C    | D     | E    | ØF | G    | H    | ØI   | ØJ  | K    | S   |
|             |           | Zinc plated | Raw             |                  |       |      |       |      |    |      |      |      |     |      |     |
|             |           | Steel       | Stainless steel |                  |       |      |       |      |    |      |      |      |     |      |     |
| 6415        | .01       | -           | .30             | 130              | 112,7 | 50,8 | 120,6 | 69,8 | 5  | 76,2 | 57,1 | 14,2 | 7,8 | 16,8 | 2,3 |
| 6415        | .02       | .04         | -               | 130              | 101,6 | 50,8 | 124   | 50,8 | 5  | 66,6 | 38,1 | 14,2 | 7,8 | 17,5 | 2,3 |
| 6415        | .03       | .04         | -               | 130              | 104,1 | 50,8 | 124   | 50,8 | 5  | 66,6 | 38,1 | 19   | 7,8 | 17,5 | 2,3 |

Art. no.: 100.H1033Z (drilled)

with return spring  
and rubber hose

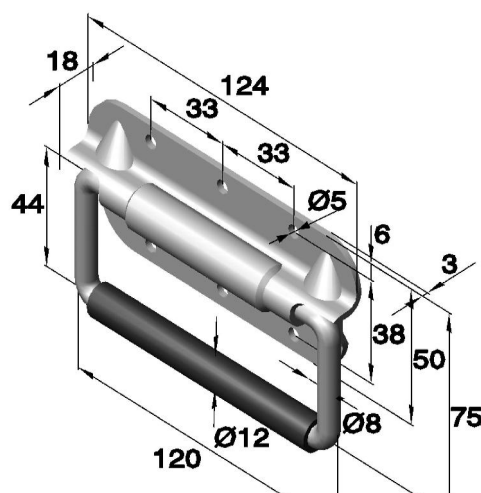
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.H1033Z  | .04         |



Art. no.: 100.HE-2341 (drilled)

with return spring

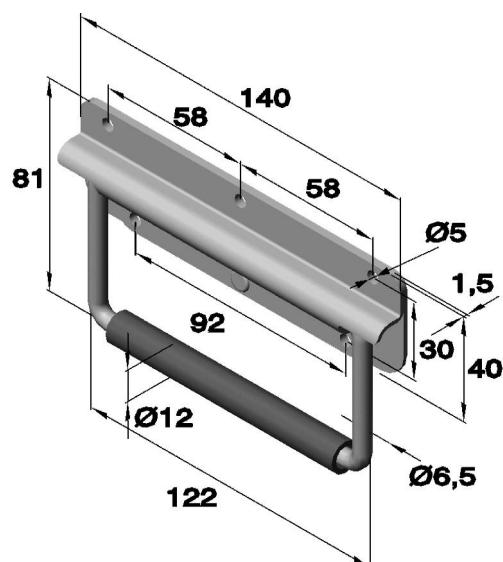
| Article no. |           |
|-------------|-----------|
| Series      | Material  |
|             | Raw       |
|             | Aluminium |
| 100.HE-2341 | AL        |



## Box handles with return springs

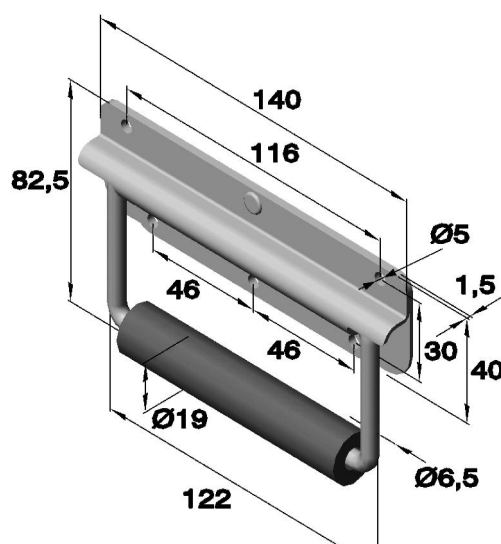
Art. no.: 100.H10527 (drilled)  
with return spring

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
| 100.H10527  | Steel       |
|             | .04         |



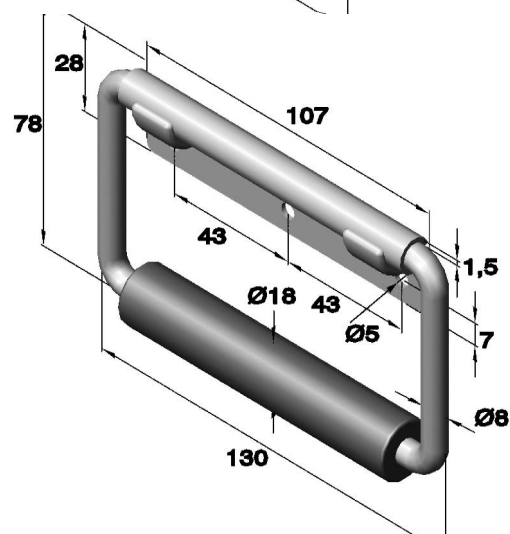
Art. no.: 100.H1053z (drilled)  
with return spring

| Article no. |             |             |
|-------------|-------------|-------------|
| Series      | Material    |             |
|             | Zinc plated | Blued black |
| 100.H1053z  | Steel       | Steel       |
|             | .04         | .07         |



Art. no.: 100.H1078  
with return spring

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
| 100.H1078   | Steel       |
|             | .04         |

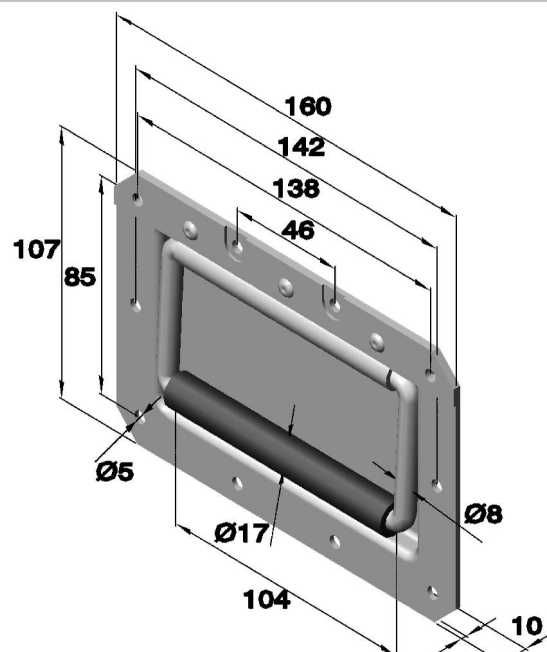


## Box handles with return spring

Art. no.: 100.H1050 (drilled)  
with return spring

Installation opening: 75 x 128

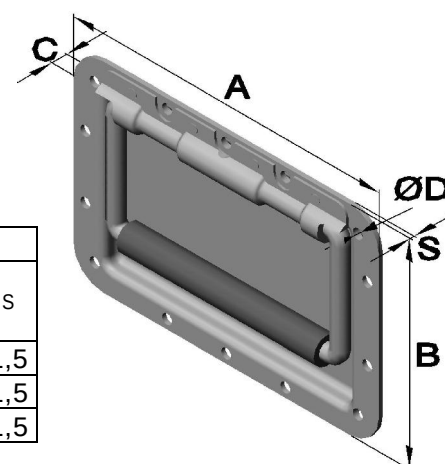
| Article no. |             |             |
|-------------|-------------|-------------|
| Series      | Material    |             |
|             | Zinc plated | Blued black |
|             | Steel       | Steel       |
| 100.H1050   | .04         | .07         |



Art. no.: 100.H1065 (drilled)  
Art. no.: 100.H7165-10 (drilled)  
with return spring

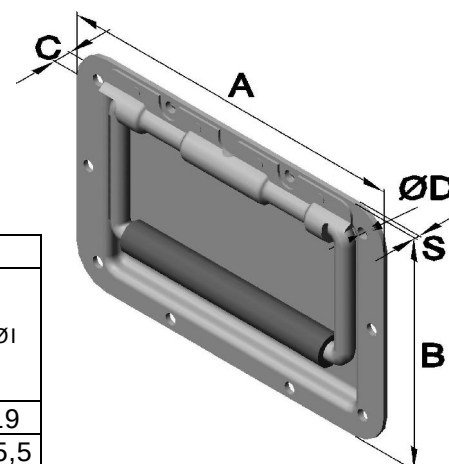
Installation opening: 148 x 98

| Article no.  |             |             |                 | Dimensions in mm |     |      |     |     |
|--------------|-------------|-------------|-----------------|------------------|-----|------|-----|-----|
| Series       | material    |             |                 | A                | B   | C    | Ø D | S   |
|              | Zinc plated | Blued black | Raw             |                  |     |      |     |     |
|              | Steel       | Steel       | Stainless steel |                  |     |      |     |     |
| 100.H1065S   | -           | -           | .30             | 178              | 127 | 15,5 | 5   | 1,5 |
| 100.H7165-10 | .04         | .07         | -               | 178              | 127 | 11,5 | 5,2 | 1,5 |
| 100.H7165    | Z.04        | K.07        | -               | 178              | 127 | 15,5 | 5,2 | 1,5 |



Art. no.: 100.H7149 (drilled)  
Art. no.: 100.H7151 (drilled)  
Art. no.: 100.H7159 (drilled)  
with return spring

| Article no. |           |             |             |                 | Dimensions in mm |     |     |     |      |
|-------------|-----------|-------------|-------------|-----------------|------------------|-----|-----|-----|------|
| Series      | Material  |             |             |                 | A                | B   | C   | Ø D | Ø I  |
|             | Chromated | Zinc plated | Black blued | Raw             |                  |     |     |     |      |
|             | Steel     | Steel       | Steel       | Stainless steel |                  |     |     |     |      |
| 100.H7149   | -         | .04         | -           | -               | 160              | 107 | 15  | 5   | 19   |
| 100.H7151   | c.03      | z.04        | -           | s.30            | 160              | 107 | 9,5 | 5   | 15,5 |
| 100.H7159   | -         | z.04        | K.07        | -               | 160              | 107 | 8,5 | -   | 19   |



## Box handles with return springs

### Art. no.: 100.H1085

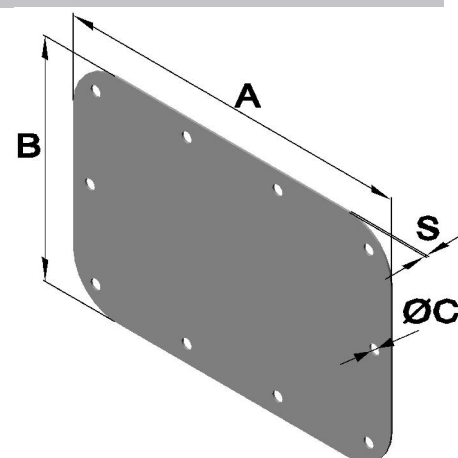
perforated rivet plate, to

Art. no.: 100.H1050

Art. no.: 100.H7151

Art. no.: 100.H7159

| Article no. |             |             | Dimensions in mm |     |    |     |
|-------------|-------------|-------------|------------------|-----|----|-----|
| Series      | Material    |             | A                | B   | ØC | S   |
|             | Zinc plated | Blued black |                  |     |    |     |
|             | Steel       | Steel       |                  |     |    |     |
| 100.H1085   | .04         | .07         | 160              | 107 | 5  | 0,9 |



### Art. no.: 100.H1906

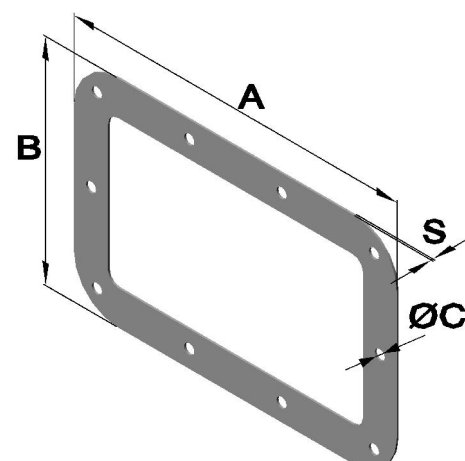
Perforated riveted plate, to

Art. no.: 100.H1050

Art. no.: 100.H7151

Art. no.: 100.H7159

| Article no.  |             |            | Dimensions in mm |       |    |     |
|--------------|-------------|------------|------------------|-------|----|-----|
| Series       | Material    |            | A                | B     | ØC | S   |
|              | Zinc plated | Blue black |                  |       |    |     |
|              | Steel       | Steel      |                  |       |    |     |
| 100.H1906    | .04         | .07        | 160              | 107,2 | 5  | 0,9 |
| 100.H1065/BP | .04         | -          | 178              | 127   | 5  | 0,9 |

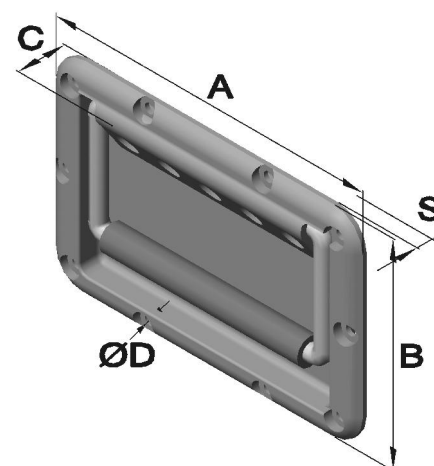


### Art. no.: 100.H2751 (drilled)

with return spring

Installation opening: 130 x 75

| Article no. |          | Dimensions in mm |     |   |     |    |
|-------------|----------|------------------|-----|---|-----|----|
| Series      | Material | A                | B   | C | ØD  | S  |
|             | Black    |                  |     |   |     |    |
|             | ABS      |                  |     |   |     |    |
| 100.H2751   | K.07     | 162              | 108 | 9 | 5,2 | 10 |

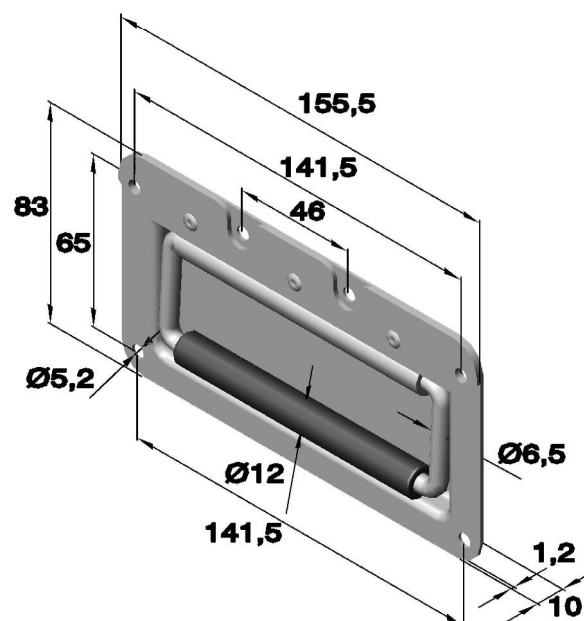


## Box handles with return spring

Art. no.: 100.H7148 (drilled)  
with return spring

Installation opening: 130 x 55

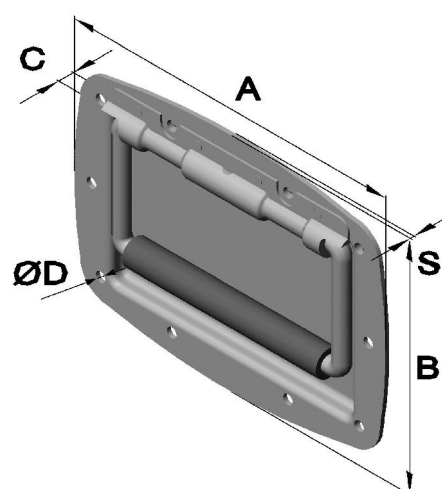
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.H7148   | .04         |



Art. no.: 100.H8154 (drilled)  
with return spring

Installation opening: 130 x 75

| Article no. |                      | Dimensions in mm |     |     |    |    |     |
|-------------|----------------------|------------------|-----|-----|----|----|-----|
| Series      | Material             | A                | B   | C   | ØD | ØI | S   |
|             | Zinc plated<br>Steel |                  |     |     |    |    |     |
| 100.H8154   | .04                  | 170              | 114 | 9,5 | 5  | 19 | 1,5 |







## Pull handles

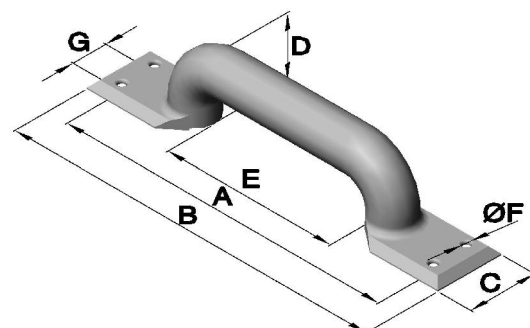


## Pull handles

Art. no.: **1053** (drilled and countersunk)

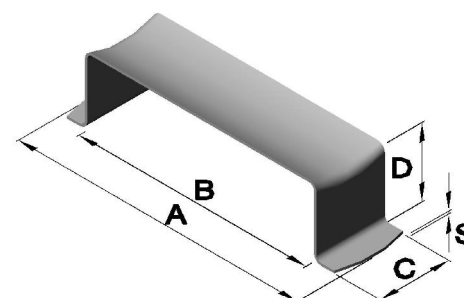
Cold-formed hollow handle

| Article no. |           |               | Dimensions in mm |     |      |    |    |     |    |
|-------------|-----------|---------------|------------------|-----|------|----|----|-----|----|
| Series      | Execution | Material      | A                | B   | C    | D  | E  | Ø F | G  |
|             |           | Nickel plated |                  |     |      |    |    |     |    |
|             |           | Steel         |                  |     |      |    |    |     |    |
| 1053        | .08       | .01           | 66               | 80  | 18,5 | 13 | 38 | 3,2 | -  |
| 1053        | .10       | .01           | 83               | 100 | 21,5 | 13 | 48 | 3,2 | -  |
| 1053        | .12       | .01           | 99               | 120 | 24,5 | 16 | 60 | 3,2 | -  |
| 1053        | .14       | .01           | 121              | 140 | 28,5 | 19 | 70 | 3,2 | 13 |
| 1053        | .16       | .01           | 140              | 160 | 29.5 | 24 | 80 | 3.2 | 13 |



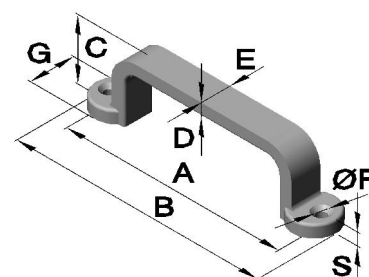
Art. no.: **3104/3105**

| Article no. |          |             |                 | Dimensions in mm |    |    |    |   |
|-------------|----------|-------------|-----------------|------------------|----|----|----|---|
| Series      | Material |             |                 | A                | B  | C  | D  | E |
|             | Raw      | Zinc plated | Raw             |                  |    |    |    |   |
|             | Steel    | Steel       | Stainless steel |                  |    |    |    |   |
| 3104        | .00      | .04         | .30             | 120              | 96 | 29 | 29 | 1 |
| 3105        | -        | .04         | -               | 96               | 73 | 29 | 28 | 1 |



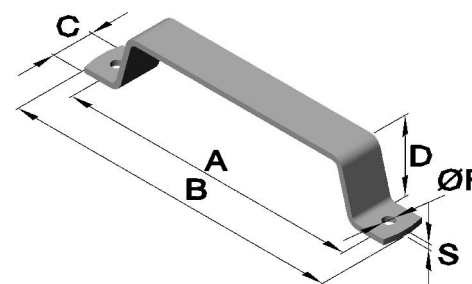
Art. no.: **6408** (drilled and countersunk)

| Article no. |                 | Dimensions in mm |     |    |     |    |      |    |   |
|-------------|-----------------|------------------|-----|----|-----|----|------|----|---|
| Series      | Material        | A                | B   | C  | D   | E  | Ø F  | G  | S |
|             | Polished        |                  |     |    |     |    |      |    |   |
|             | Stainless steel |                  |     |    |     |    |      |    |   |
| 6408        | .33             | 88               | 100 | 25 | 5,5 | 10 | 4,1° | 18 | 5 |



Art. no.: **6409** (drilled)

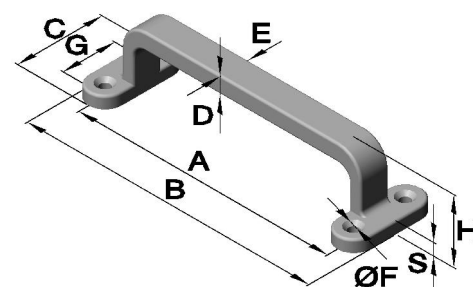
| Article no. |             |                 | Dimensions in mm |     |    |    |     |   |
|-------------|-------------|-----------------|------------------|-----|----|----|-----|---|
| Series      | Material    |                 | A                | B   | C  | D  | Ø F | S |
|             | Zinc plated | Deburred        |                  |     |    |    |     |   |
|             | Steel       | Stainless steel |                  |     |    |    |     |   |
| 6409        | .04         | .30             | 107              | 120 | 15 | 21 | 4.3 | 2 |



## Pull handles

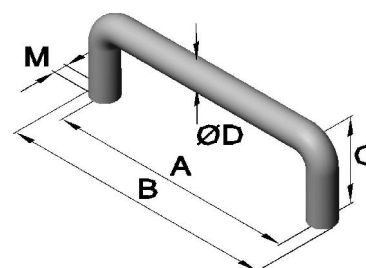
Art. no.: 6410 (drilled and countersunk)

| Article no. |           |                 | Dimensions in mm |     |    |   |    |     |    |    |   |
|-------------|-----------|-----------------|------------------|-----|----|---|----|-----|----|----|---|
| Series      | Execution | Material        | A                | B   | C  | D | E  | Ø F | G  | H  | S |
|             |           | Polished        |                  |     |    |   |    |     |    |    |   |
|             |           | Stainless steel |                  |     |    |   |    |     |    |    |   |
| 6410        | .01       | .33             | 106              | 120 | 24 | 7 | 12 | 4,1 | 24 | 27 | 5 |
| 6410        | .02       | .33             | 126              | 150 | 30 | 8 | 15 | 5,3 | 30 | 33 | 6 |



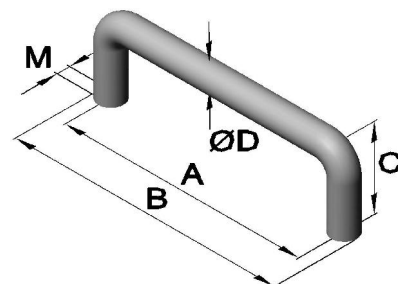
Art. no.: 6411 (with internal thread)

| Article no. |           |               |           |           | Dimensions in mm |     |    |     |    |               |
|-------------|-----------|---------------|-----------|-----------|------------------|-----|----|-----|----|---------------|
| Series      | Execution | Material      |           |           | A                | B   | C  | Ø D | M  | Thread length |
|             |           | Nickel plated | Chromated | Anodised  |                  |     |    |     |    |               |
|             |           | Brass         | Brass     | Aluminium |                  |     |    |     |    |               |
| 6411        | .01       | -             | -         | .70       | 52               | 60  | 34 | 8   | M4 | 10            |
| 6411        | .02       | -             | -         | .70       | 80               | 88  | 34 | 8   | M4 | 12            |
| 6411        | .03       | -             | -         | .70       | 100              | 108 | 34 | 8   | M4 | 12            |
| 6411        | .04       | -             | -         | .70       | 120              | 128 | 34 | 8   | M4 | 10            |
| 6411        | .05       | -             | -         | .70       | 100              | 108 | 30 | 7   | M4 | 8             |
| 6411        | .01       | .21           | .23       | -         | 100              | 108 | 30 | 7   | M4 | 8             |



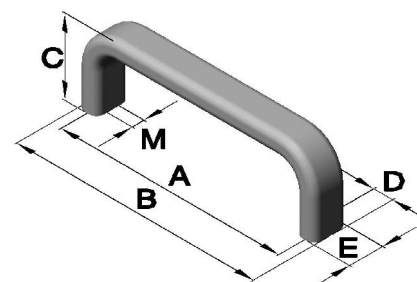
Art. no.: 6412 (with internal thread)

| Article no. |           |           |                 | Dimensions in mm |     |    |     |    |               |
|-------------|-----------|-----------|-----------------|------------------|-----|----|-----|----|---------------|
| Series      | Execution | Material  |                 | A                | B   | C  | Ø D | M  | Thread length |
|             |           | Chromated | Raw             |                  |     |    |     |    |               |
|             |           | Steel     | Stainless steel |                  |     |    |     |    |               |
| 6412        | .01       | .03       | -               | 102              | 110 | 38 | 8   | M5 | 14            |
| 6412        | .02       | .03       | -               | 153              | 161 | 38 | 8   | M5 | 14            |
| 6412        | .03       | .03       | -               | 204              | 212 | 38 | 8   | M5 | 14            |
| 6412        | .01       | -         | .30             | 150              | 159 | 28 | 9   | M4 | 8             |
| 6412        | .02       | -         | .30             | 120              | 129 | 28 | 9   | M4 | 8             |
| 6412        | .03       | -         | .30             | 95               | 104 | 28 | 9   | M4 | 8             |



Art. no.: 6412 (with internal thread)

| Article no. |           |                 | Dimensions in mm |       |    |     |    |               |
|-------------|-----------|-----------------|------------------|-------|----|-----|----|---------------|
| Series      | Execution | Material        | A                | B     | C  | D   | M  | Thread length |
|             |           | Polished        |                  |       |    |     |    |               |
|             |           | Stainless steel |                  |       |    |     |    |               |
| 6412        | .01       | .35             | 92               | 99,8  | 32 | 7,8 | M5 | 10            |
| 6412        | .02       | .35             | 110              | 117,8 | 32 | 7,8 | M5 | 10            |
| 6412        | .04       | .30             | 100              | 108   | 40 | 8   | M5 | 11            |
| 6412        | .05       | .30             | 150              | 158   | 50 | 8   | M5 | 11            |
| 6412        | .06       | .30             | 200              | 208   | 50 | 8   | M5 | 11            |



## Pull handles

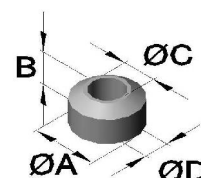
Art. no.: 6412 for

Art. no.: 6412.01.03

Art. no.: 6412.02.03

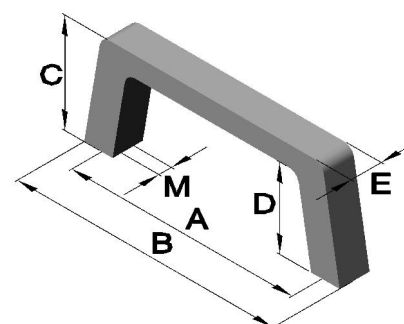
Art. no.: 6412.03.03

| Article no. |           |           | Dimensions in mm |   |     |     |
|-------------|-----------|-----------|------------------|---|-----|-----|
| Series      | Execution | Material  | Ø A              | B | Ø C | Ø D |
|             |           | Chromated |                  |   |     |     |
|             |           | Brass     |                  |   |     |     |
| 6412        | .01       | .23       | 16               | 8 | 8,2 | 6   |



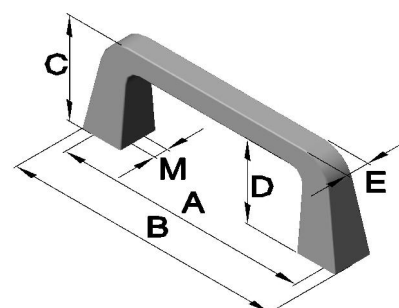
Art. no.: 6416

| Article no. |           |           | Dimensions in mm |     |    |    |      |    |               |
|-------------|-----------|-----------|------------------|-----|----|----|------|----|---------------|
| Series      | Execution | Material  | A                | B   | C  | D  | E    | M  | Thread length |
|             |           | Black     |                  |     |    |    |      |    |               |
|             |           | Aluminium |                  |     |    |    |      |    |               |
| 6416        | .01       | .70       | 88               | 102 | 40 | 32 | 12,2 | M5 | 10            |
| 6416        | .02       | .70       | 120              | 134 | 40 | 32 | 12,2 | M5 | 10            |



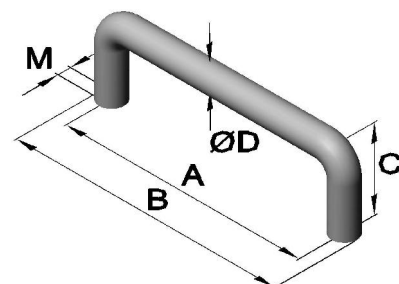
Art. no.: 6417

| Article no. |           |           | Dimensions in mm |    |    |    |   |    |               |
|-------------|-----------|-----------|------------------|----|----|----|---|----|---------------|
| Series      | Execution | Material  | A                | B  | C  | D  | E | M  | Thread length |
|             |           | Chromated |                  |    |    |    |   |    |               |
|             |           | Zamak     |                  |    |    |    |   |    |               |
| 6417        | .01       | .53       | 90               | 99 | 33 | 26 | 8 | M4 | 8             |



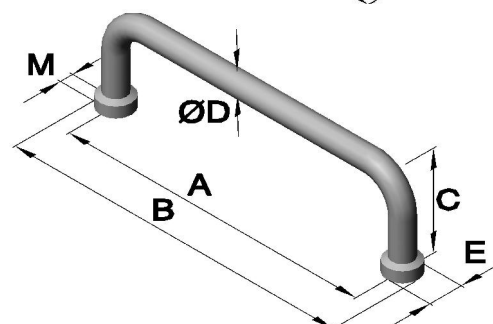
Art. no.: 6417 (with internal thread)

| Article no. |           |           | Dimensions in mm |     |    |     |    |               |
|-------------|-----------|-----------|------------------|-----|----|-----|----|---------------|
| Series      | Execution | Material  | A                | B   | C  | Ø D | M  | Thread length |
|             |           | Polished  |                  |     |    |     |    |               |
|             |           | Aluminium |                  |     |    |     |    |               |
| 6417        | .01       | .70       | 92               | 102 | 32 | 10  | M5 | 10            |
| 6417        | .02       | .70       | 108              | 118 | 39 | 10  | M4 | 10            |



Art. no.: 6418 (with internal thread)

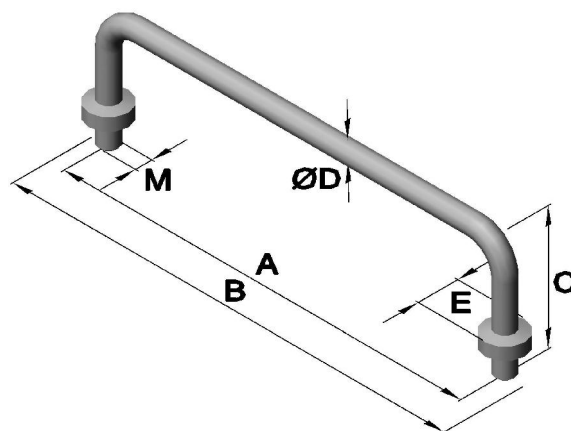
| Article no. |           |                 | Dimensions in mm |     |    |     |    |    |               |
|-------------|-----------|-----------------|------------------|-----|----|-----|----|----|---------------|
| Series      | Execution | Material        | A                | B   | C  | Ø D | E  | M  | Thread length |
|             |           | Polished        |                  |     |    |     |    |    |               |
|             |           | Stainless steel |                  |     |    |     |    |    |               |
| 6418        | .01       | .30             | 110              | 122 | 35 | 8   | 12 | M5 | 11            |



# Pull handles

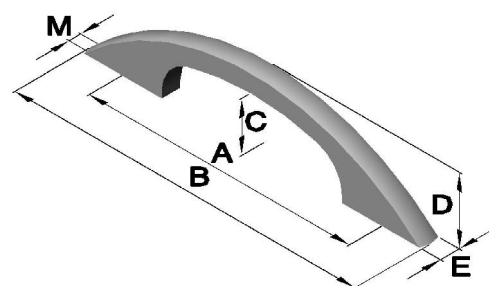
Art. no.: 6418 (with external thread)

| Article no. |           |                    | Dimensions in mm |     |    |     |    |    |               |
|-------------|-----------|--------------------|------------------|-----|----|-----|----|----|---------------|
| Series      | Execution | Material           | A                | B   | C  | Ø D | E  | M  | Thread length |
|             |           | Chromated<br>Brass |                  |     |    |     |    |    |               |
| 6418        | .01       | .23                | 160              | 176 | 50 | 8   | 16 | M8 | 10            |



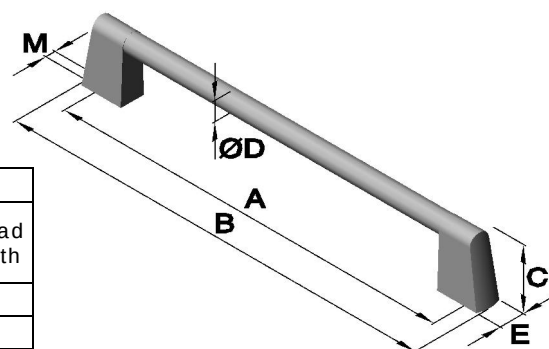
Art. no.: 6418 (with internal thread)

| Article no. |           |                    | Dimensions in mm |     |    |    |   |    |               |
|-------------|-----------|--------------------|------------------|-----|----|----|---|----|---------------|
| Series      | Execution | Material           | A                | B   | C  | D  | E | M  | Thread length |
|             |           | Chromated<br>Zamak |                  |     |    |    |   |    |               |
| 6418        | .01       | .53                | 111              | 145 | 21 | 29 | 8 | M4 | 5             |



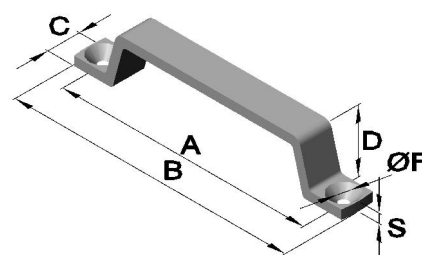
Art. no.: 6418 (with internal thread)

| Article no. |           |                |                    | Dimensions in mm |     |    |     |    |    |               |
|-------------|-----------|----------------|--------------------|------------------|-----|----|-----|----|----|---------------|
| Series      | Execution | Material       |                    | A                | B   | C  | Ø D | E  | M  | Thread length |
|             |           | Black<br>Zamak | Chromated<br>Zamak |                  |     |    |     |    |    |               |
| 6418        | .01       | .50            | -                  | 160              | 174 | 26 | 8   | 10 | M4 | 8             |
| 6418        | .02       | -              | .53                | 160              | 174 | 26 | 8   | 10 | M4 | 8             |



Art. no.: 6420 (drilled and countersunk)

| Article no. |           |                    | Dimensions in mm |     |    |    |         |   |
|-------------|-----------|--------------------|------------------|-----|----|----|---------|---|
| Series      | Execution | Material           | A                | B   | C  | D  | Ø F     | S |
|             |           | Chromated<br>Zamak |                  |     |    |    |         |   |
| 6420        | .03       | Zamak              | 107              | 120 | 14 | 22 | 4,3*90° | 4 |

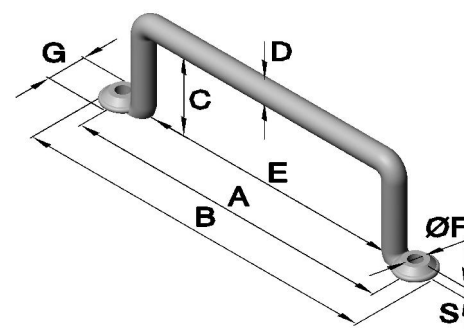




## Pull handles

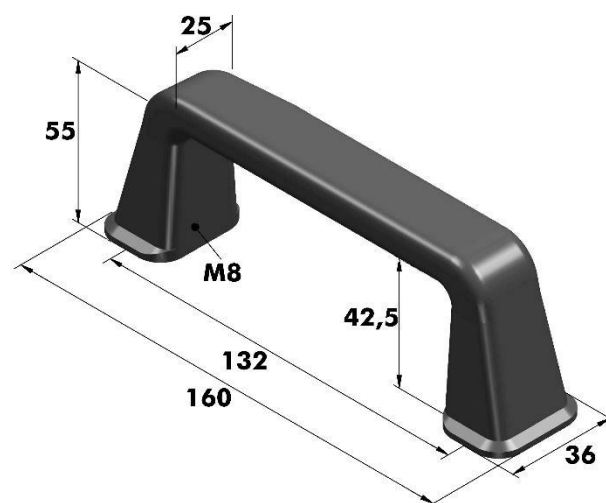
Art. no.: 6420 (drilled)

| Article no. |           |             | Dimensions in mm |     |    |   |    |     |    |   |
|-------------|-----------|-------------|------------------|-----|----|---|----|-----|----|---|
| Series      | Execution | Material    | A                | B   | C  | D | E  | Ø F | G  | S |
|             |           | Zinc plated |                  |     |    |   |    |     |    |   |
|             |           | Steel       |                  |     |    |   |    |     |    |   |
| 6420        | .10       | .02         | 125              | 140 | 30 | 8 | 85 | 5.1 | 16 | 3 |



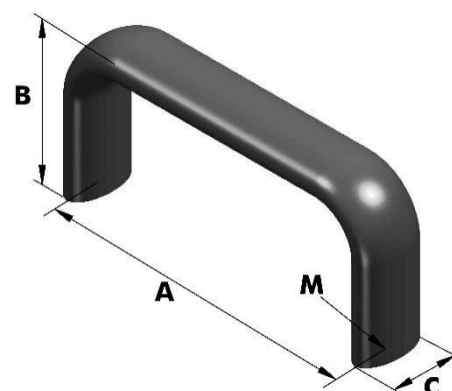
Art.no.:6422 (with internal thread)

| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
| 6422        | .03       | Black    |
|             |           | Plastic  |



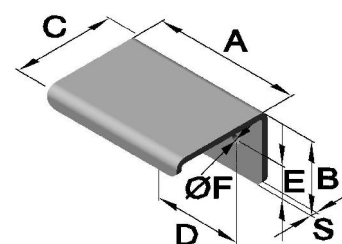
Art.no.:6424 (with internal thread)

| Article no. |           |           | Dimensions in mm |    |    |    |
|-------------|-----------|-----------|------------------|----|----|----|
| Series      | Execution | Material  | A                | B  | C  | M  |
|             |           | Black     |                  |    |    |    |
| 6424        | .01       | Aluminium | 75               | 38 | 16 | M5 |
| 6424        | .02       | Aluminium | 100              | 38 | 16 | M5 |
| 6424        | .03       | Aluminium | 150              | 38 | 16 | M5 |



Art. no.: 6445

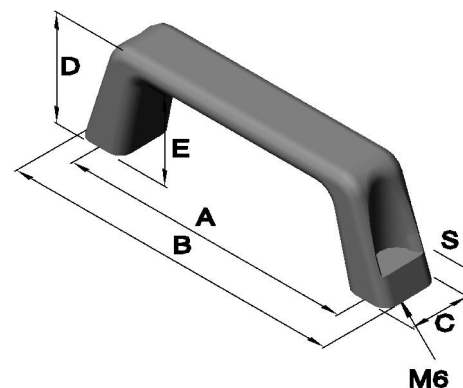
| Article no. |           |           | Dimensions in mm |    |    |    |    |         |   |
|-------------|-----------|-----------|------------------|----|----|----|----|---------|---|
| Series      | Execution | Material  | A                | B  | C  | D  | E  | Ø F     | S |
| 6445        | .03       | Chromated | 50               | 25 | 35 | 30 | 11 | 4.2*90° | 2 |



## Pull handles

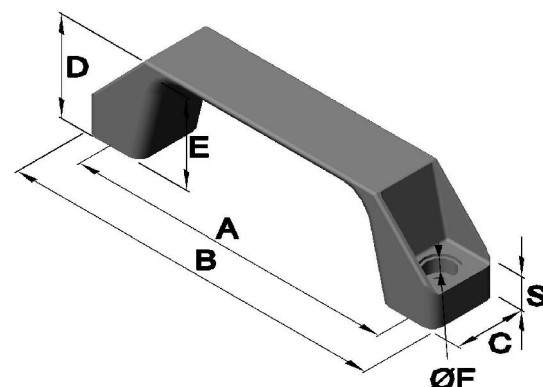
Art. no.: 7038 (with internal thread)

| Article no. |          | Dimensions in mm |     |    |    |    |    |
|-------------|----------|------------------|-----|----|----|----|----|
| Series      | Material | A                | B   | C  | D  | E  | S  |
| 7038        | PA Black | 162              | 178 | 26 | 46 | 36 | 15 |



Art. no.: 6420/7039 (drilled and countersunk for SW 10)

| Article no. |           |          | Dimensions in mm |     |    |    |    |     |    |
|-------------|-----------|----------|------------------|-----|----|----|----|-----|----|
| Series      | Execution | Material | A                | B   | C  | D  | E  | Ø F | S  |
| 6420        | .04       | PA Black | 122              | 142 | 26 | 40 | 32 | 6,2 | 12 |
| 6420        | .05       | PA Black | 150              | 170 | 28 | 52 | 42 | 6,2 | 13 |
| 7039        | -         | PA Black | 130              | 149 | 25 | 40 | 30 | 6,4 | 10 |



## Pull handles

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[www.hokon-verschluss technik.de](http://www.hokon-verschluss technik.de)



## Plastic handles and shell grips



## Plastic handles and shell grips

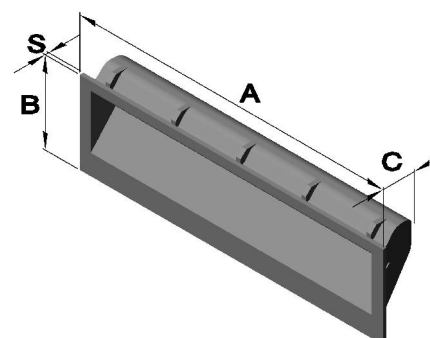
### Art. no.: 6450

countersunk shell grip to clamp

For sheet thickness: 0.8 up to 1.5

Installation opening: 132 x 30.7

| Article no. |           |          |           | Dimensions in mm |      |      |     |
|-------------|-----------|----------|-----------|------------------|------|------|-----|
| Series      | Execution | Material |           | A                | B    | C    | S   |
|             |           | ABS      | Polyamide |                  |      |      |     |
| 6450        | .01       | .70      | -         | 137              | 37,4 | 18,6 | 1,6 |
| 6450        | .02       | -        | .80       | 140              | 36   | 30   | 2,0 |

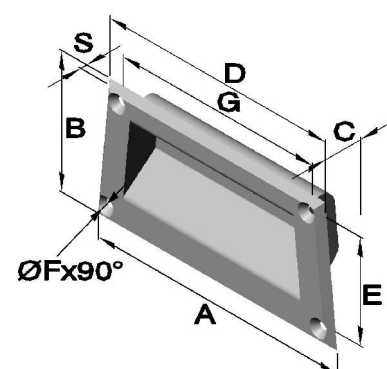


### Art. no.: 6500 (drilled and countersunk)

countersunk shell grip to screw

Installation opening: 73x37x83

| Article no. |          | Dimensions in mm |    |    |    |      |     |      |     |
|-------------|----------|------------------|----|----|----|------|-----|------|-----|
| Series      | Material | A                | B  | C  | D  | E    | Ø F | G    | S   |
|             | ABS      |                  |    |    |    |      |     |      |     |
| 6500        | Grey     | 101              | 52 | 15 | 91 | 40,5 | 3,5 | 80,5 | 2,5 |



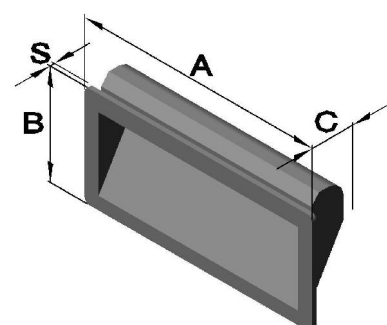
### Art. no.: 6501

countersunk shell grip to clamp

For sheet thickness: 0,75 up to 1,5

Installation opening: 34 x 83

| Article no. |           | Dimensions in mm |    |    |     |
|-------------|-----------|------------------|----|----|-----|
| Series      | Material  | A                | B  | C  | S   |
|             | Polyamide |                  |    |    |     |
| 6501        | Black     | 90               | 40 | 16 | 1,6 |



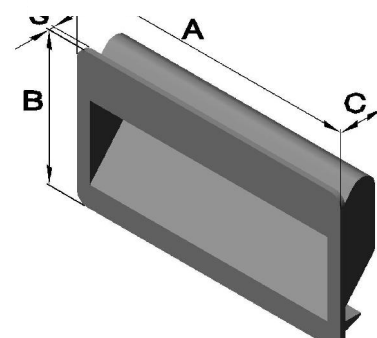
### Art. no.: 6502

countersunk shell grip to clamp

For sheet thickness: 0,75 up to 1,5

Installation opening: 49 x 103

| Article no. |          | Dimensions in mm |      |    |     |
|-------------|----------|------------------|------|----|-----|
| Series      | Material | A                | B    | C  | S   |
|             | ABS      |                  |      |    |     |
| 6502        | Black    | 110              | 56,3 | 18 | 2,8 |





## plastic handles and shell grips

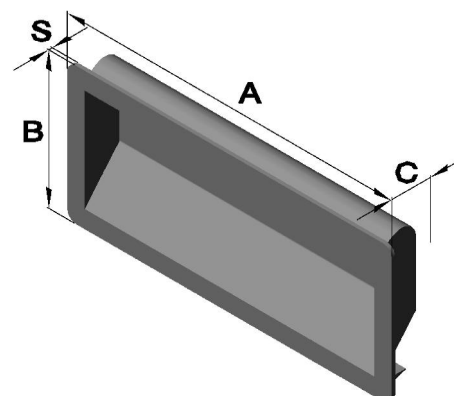
### Art. no.: 6503

countersunk shell grip to clamp

For sheet thickness: 1,5 up to 2,0

Installation opening: 73 x 171

| Article no. |          | Dimensions in mm |    |    |     |
|-------------|----------|------------------|----|----|-----|
| Series      | Material | A                | B  | C  | S   |
|             | Plastic  |                  |    |    |     |
| 6503        | Black    | 187              | 79 | 22 | 2,9 |



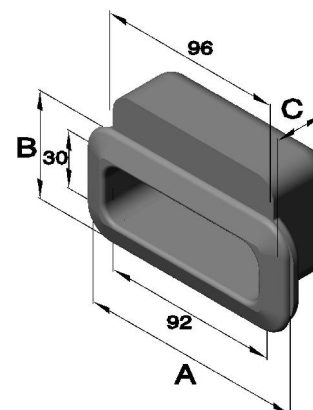
### Art. no.: 6504

countersunk shell grip to clamp

For sheet thickness: 2 mm

Installation opening: 106 x 39

| Article no. |                    | Dimensions in mm |    |    |
|-------------|--------------------|------------------|----|----|
| Series      | Material           | A                | B  | C  |
|             | Elastomer (rubber) |                  |    |    |
| 6504        | Black              | 120              | 58 | 43 |

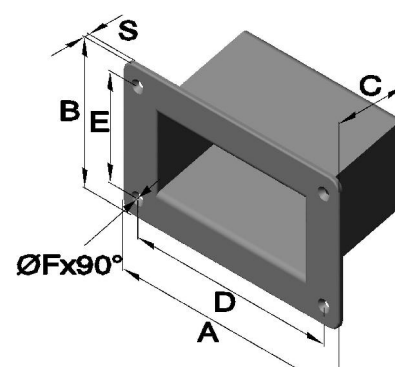


### Art. no.: 6505 (drilled and countersunk)

countersunk shell grip to screw

Installation opening: 104 x 50

| Article no. |          | Dimensions in mm |    |    |     |      |     |     |
|-------------|----------|------------------|----|----|-----|------|-----|-----|
| Series      | Material | A                | B  | C  | D   | E    | Ø F | S   |
|             | ABS      |                  |    |    |     |      |     |     |
| 6505        | Black    | 131              | 79 | 58 | 112 | 58,8 | 3,5 | 2,5 |

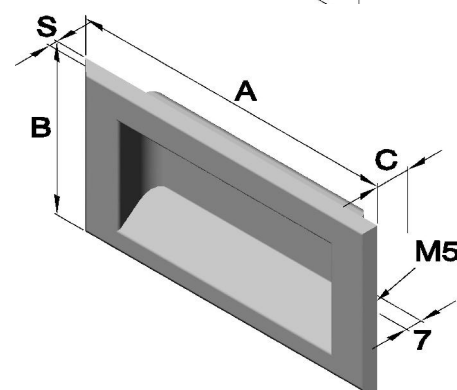


### Art. no.: 6506

countersunk shell grip to screw  
with threaded bolt

Installation opening: 90 x 47

| Article no. |           | Dimensions in mm |     |    |    |   |
|-------------|-----------|------------------|-----|----|----|---|
| Series      | Execution | Material         | A   | B  | C  | S |
|             |           | 1.4301           |     |    |    |   |
|             |           | Satined          |     |    |    |   |
| 6506        | .02       | .30              | 120 | 62 | 16 | 3 |

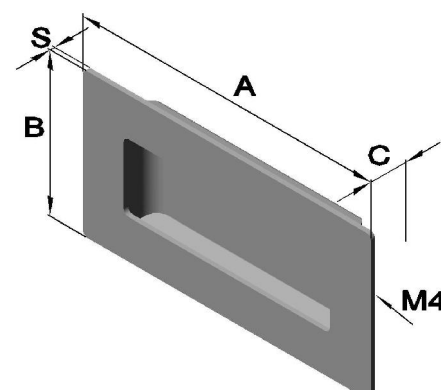


## Plastic handles and shell grips

Art. no.: **6507** (with threaded bolt)  
countersunk shell grip to screw

Installation opening: 91 x 45

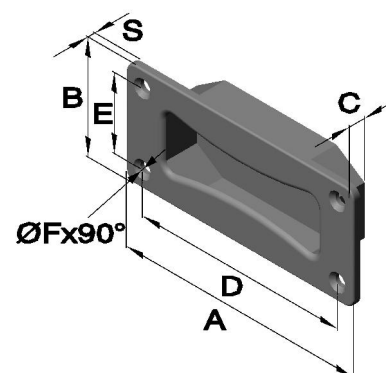
| Article no. |                 | Dimensions in mm |    |    |     |
|-------------|-----------------|------------------|----|----|-----|
| Series      | Material        | A                | B  | C  | S   |
|             | Satined         |                  |    |    |     |
|             | Stainless steel |                  |    |    |     |
| 6507        | .30             | 120              | 60 | 15 | 1,8 |



Art. no.: **6508** (drilled and countersunk)  
countersunk shell grip to screw

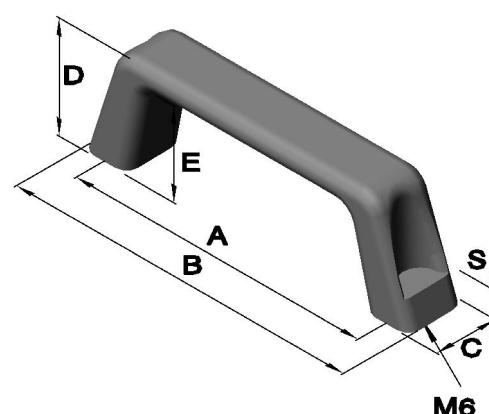
Installation opening: 104 x 50

| Article no. |           | dimensions in mm |    |    |     |    |     |
|-------------|-----------|------------------|----|----|-----|----|-----|
| Series      | Material  | A                | B  | C  | D   | E  | Ø F |
|             | Polyamide |                  |    |    |     |    |     |
| 6508        | Black     | 133              | 60 | 22 | 114 | 41 | 6   |



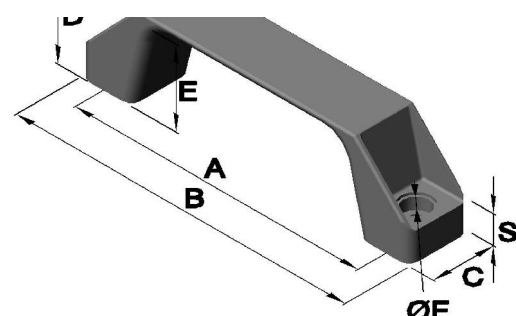
Art. no.: **7038** (with internal thread)

| Article no. |          | Dimensions in mm |     |    |    |    |    |
|-------------|----------|------------------|-----|----|----|----|----|
| Series      | Material | A                | B   | C  | D  | E  | S  |
| 7038        | PA Black | 161              | 178 | 26 | 46 | 37 | 15 |



Art. no.: **7039** (drilled and countersunk for SW 10)

| Article no. |           |          | Dimensions in mm |     |    |    |    |     |    |
|-------------|-----------|----------|------------------|-----|----|----|----|-----|----|
| Series      | Execution | Material | A                | B   | C  | D  | E  | Ø F | S  |
| 6420        | .04       | PA Black | 122              | 142 | 26 | 40 | 32 | 6,2 | 12 |
| 6420        | .05       | PA Black | 150              | 170 | 28 | 52 | 42 | 6,2 | 13 |
| 7039        | -         | PA Black | 130              | 149 | 25 | 40 | 30 | 6,4 | 10 |

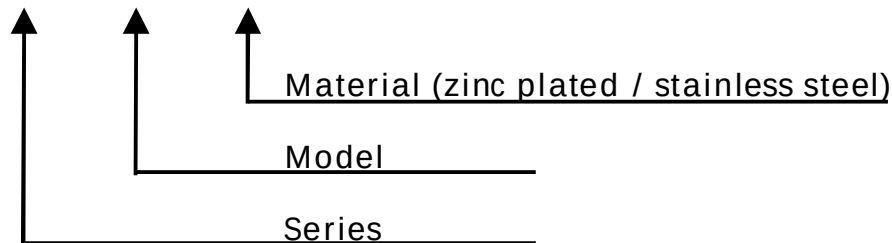




## Lashing lugs

Ordering example:

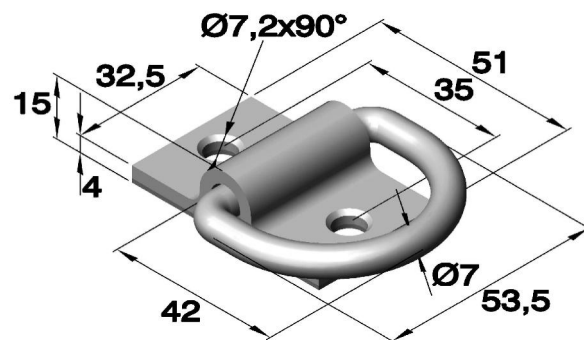
Art.no. 6072 .01/02 .04/30



Art. no.: 3106

Lashing lugs

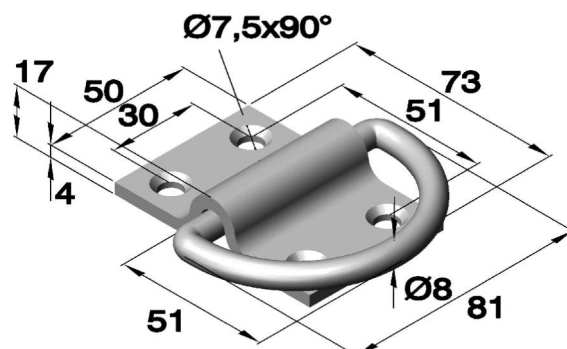
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3106        | .04         | .30             |



Art. no.: 3107

Lashing lugs

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3107        | .04         |

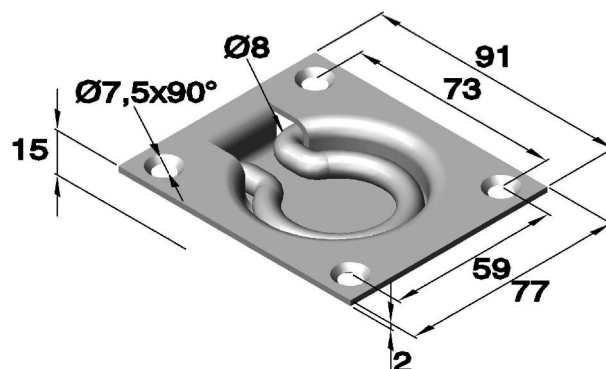


## Lashing lugs

Art. no.: 3108

Lashing lugs

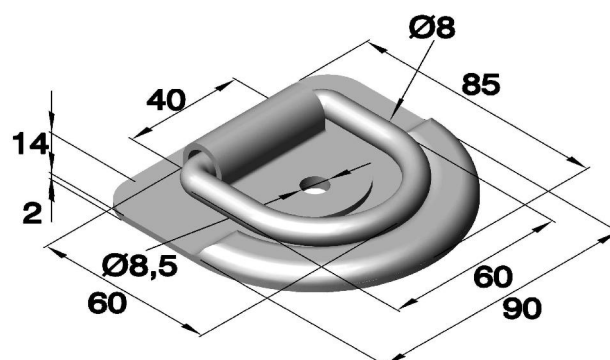
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3108        | .04         | .30             |



Art. no.: 3109

Lashing lugs

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 3109        | .04         | .30             |



# HoKon

VERSCHLUSSTECHNIK &  
SONDERKONSTRUKTIONEN

Zertifiziert nach DIN EN ISO 9001:2008



Piano hinges

Weld on hinges

Hinges

Functional hinges



Management  
System  
ISO 9001:2015  
ISO 14001:2015  
[www.tuv.com](http://www.tuv.com)  
ID 9108624624





## FOLDER 4 HINGES

FOLDER 1 LATCHES

FOLDER 2 TENSION BANDS

FOLDER 3 HANDLES

FOLDER 4 HINGES

PIANO HINGES ..... E-1

HINGES ..... F

- HINGES ..... F-1
- HEAVY HINGES ..... F-17
- INDIVIDUAL PARTS FOR SELFMAD HINGES ..... F-35
- SPRING HINGES ..... F-41
- PLASTIC HINGES ..... F-61
- TORQUE HINGES ..... F-71
- CONCEALED HINGES ..... F-81
- HINGE FOR VEHICLE CONSTRUCTION AND PLANT ENGINEERING ..... F-101
- ALUMINIUM HINGES ..... F-121
- CRANKED HINGES ..... F-151
- STAINLESS STEEL HINGES ..... F-201

WELD ON HINGES / -ROLLS ..... G

- WELD ON HINGES ..... G-1
- WELD ON HINGE ROLLS ..... G-15

FOLDER 5 LOCKING DEVICES

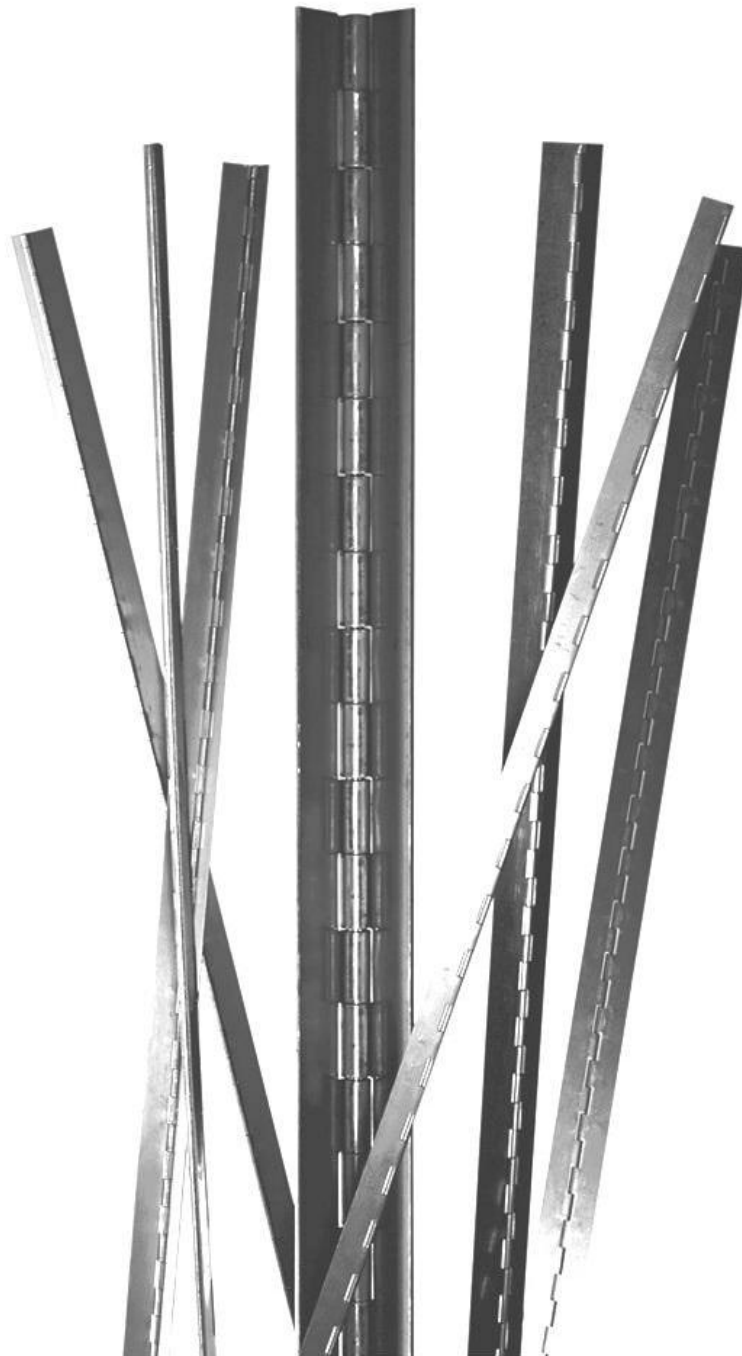
FOLDER 6 THREADED INSERTS

FOLDER 7 SUNDRIES

GENERAL TERMS AND CONDITIONS.....



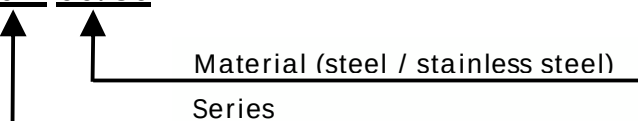
## Piano hinges



## Piano hinges

Ordering example:

Art.no. 6702.00/30



### Piano hinges, rolled

Width: 15 mm

| Art. no. | Material |       | Dimensions in mm |    |     |            |    |
|----------|----------|-------|------------------|----|-----|------------|----|
|          | Rod      | Pin   | A                | B  | C   | D<br>Pin Ø | E  |
| 6702.00  | Steel    | Steel | 2040             | 15 | 0,7 | 1,6        | 15 |

Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.

Width: 20 mm

| Art. no. | Material        |                 | Dimensions in mm |    |     |     |    |      |    |     |
|----------|-----------------|-----------------|------------------|----|-----|-----|----|------|----|-----|
|          | Rod             | Pin             | A                | B  | C   | DØ  | E  | F    | G  | ØS  |
| 6711.00  | Steel           | Steel           | 2040             | 20 | 0,8 | 2   | 15 | 11,2 | 60 | 2,8 |
| 6712.30  | Stainless steel | Stainless steel | 2040             | 20 | 0,8 | 2   | 15 | 11,2 | 60 | 2,8 |
| 6716.70  | Aluminium       | Steel           | 2000             | 20 | 0,6 | 2,4 | 15 | -    | -  | -   |
| 6717.00  | Steel           | Steel           | 2040             | 20 | 0,8 | 2   | 15 | -    | -  | -   |
| 6718.30  | Stainless steel | Stainless steel | 2040             | 20 | 0,8 | 2   | 15 | -    | -  | -   |

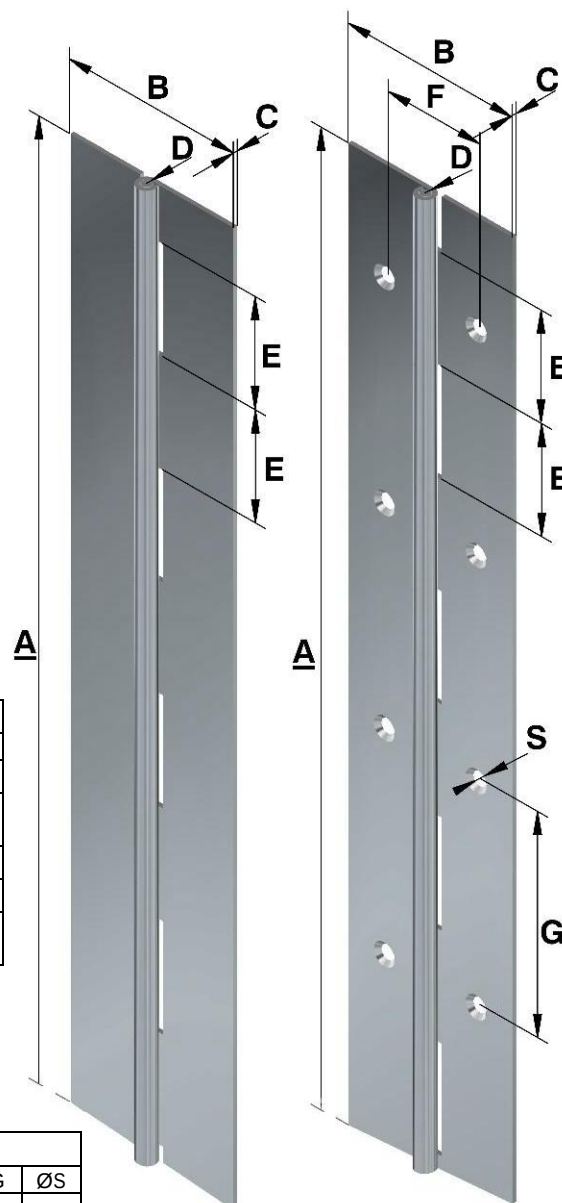
Width: 25 mm

| Art. no. | Material                              |                 | Dimensions in mm |    |     |    |    |      |    |     |
|----------|---------------------------------------|-----------------|------------------|----|-----|----|----|------|----|-----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ | E  | F    | G  | ØS  |
| 6703.70  | Aluminium                             | Steel           | 1000             | 25 | 0,8 | 2  | 15 | -    | -  | -   |
| 6706.30  | Stainless steel                       | Stainless steel | 1020             | 25 | 0,8 | 2  | 15 | -    | -  | -   |
| 6707.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1980             | 25 | 0,8 | 2  | 15 | -    | -  | -   |
| 6719.30  | Stainless steel                       | Stainless steel | 1800             | 25 | 1   | 2  | 15 | -    | -  | -   |
| 6720.04  | Steel                                 | Brass           | 1800             | 25 | 1,2 | 3  | 30 | -    | -  | -   |
| 6721.00  | Steel                                 | Steel           | 2040             | 25 | 0,8 | 2  | 15 | 14,2 | 60 | 2,8 |
| 6726.00  | Steel                                 | Steel           | 2040             | 25 | 0,8 | 2  | 15 | -    | -  | -   |
| 6728.30  | Stainless steel                       | Stainless steel | 2040             | 25 | 0,8 | 2  | 15 | -    | -  | -   |
| 6729.30  | Stainless steel                       | Stainless steel | 2040             | 25 | 1   | 2  | 15 | -    | -  | -   |
| 6730.30  | Stainless steel                       | Stainless steel | 2040             | 25 | 0,8 | 2  | 15 | 14.2 | 60 | 3.6 |

Zinc plated steel - the hinge is prepared from already zinc plated steel.

The edge cuts are, thus, not zinc plated. Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry



## Piano hinges

Width: 30 mm

| Art. no. | Material                              |                 | Dimensions in mm |    |     |    |    |      |    |     |
|----------|---------------------------------------|-----------------|------------------|----|-----|----|----|------|----|-----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ | E  | F    | G  | ØS  |
| 6708.70  | Aluminium                             | Aluminium       | 1980             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6709.30  | Stainless steel                       | Stainless steel | 1020             | 30 | 0,8 | 2  | 15 | -    | -  | -   |
| 6710.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1020             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6731.00  | Steel                                 | Steel           | 2040             | 30 | 0,8 | 2  | 15 | 16,8 | 60 | 3,9 |
| 6733.00  | Steel                                 | Steel           | 2040             | 30 | 1   | 2  | 15 | 16,8 | 60 | 3,9 |
| 6735.00  | Steel                                 | Steel           | 2040             | 30 | 0,8 | 2  | 15 | -    | -  | -   |
| 6736.30  | Stainless steel                       | Stainless steel | 2040             | 30 | 0,8 | 2  | 15 | -    | -  | -   |
| 6738.30  | Stainless steel                       | Stainless steel | 2040             | 30 | 1   | 2  | 15 | 16,8 | 60 | 3,9 |
| 6739.22  | polished Brass                        | Stainless steel | 2040             | 30 | 0,8 | 2  | 15 | -    | -  | -   |
| 6740.30  | Stainless steel                       | Stainless steel | 1800             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6741.00  | Steel                                 | Steel           | 2040             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6742.30  | Stainless steel                       | Stainless steel | 2040             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6743.30  | Seawater resistant<br>Stainless steel | Stainless steel | 2040             | 30 | 1   | 2  | 15 | -    | -  | -   |
| 6745.30  | Stainless steel                       | Stainless steel | 2000             | 30 | 1,5 | 4  | 30 | -    | -  | -   |
| 6746.30  | Stainless steel                       | Stainless steel | 2000             | 30 | 2   | 6  | 25 | -    | -  | -   |
| 6747.00  | Steel                                 | Steel           | 2000             | 30 | 2   | 6  | 30 | -    | -  | -   |

Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry.

Width: 32 mm

| Art. no. | Material        |                 | Dimensions in mm |    |     |            |      |
|----------|-----------------|-----------------|------------------|----|-----|------------|------|
|          | Rod             | Pin             | A                | B  | C   | D<br>Pin Ø | E    |
| 6749.30  | Stainless steel | Stainless steel | 1800             | 32 | 1,2 | 3          | 30   |
| 6750.00  | Steel           | Steel           | 1950             | 32 | 1,5 | 3          | 12,5 |
| 6750.30  | Stainless steel | Stainless steel | 1950             | 32 | 1,5 | 3          | 12,5 |

Hinges can be delivered in other lengths, according to enquiry.

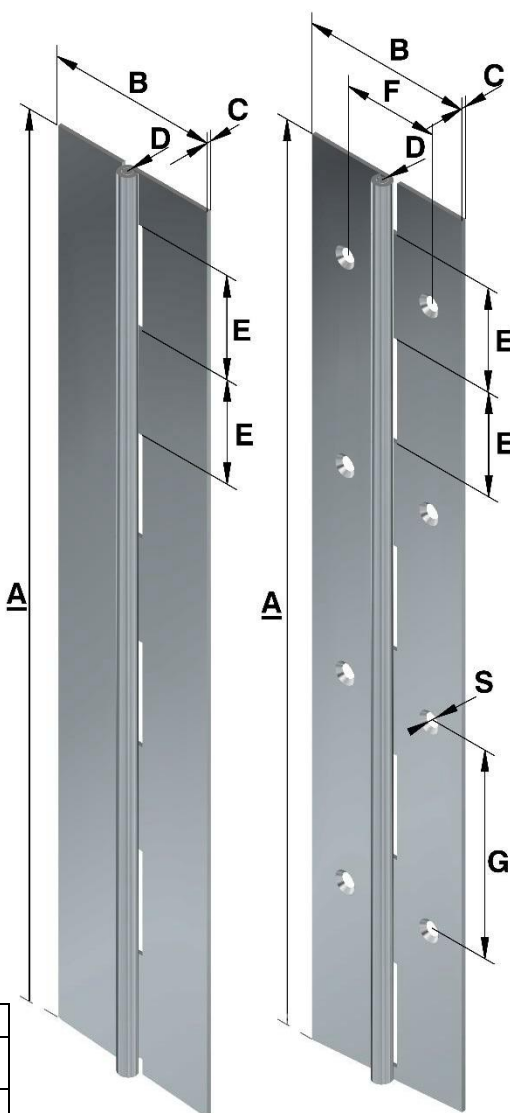
Completion may be perforated, according to enquiry.

Width: 35 mm

| Art. no. | Material  |           | Dimensions in mm |    |   |            |    |      |    |     |
|----------|-----------|-----------|------------------|----|---|------------|----|------|----|-----|
|          | Rod       | Pin       | A                | B  | C | D<br>Pin Ø | E  | F    | G  | Ø S |
| 6753.00  | Steel     | Steel     | 2040             | 35 | 1 | 2          | 15 | 19,5 | 60 | 4,5 |
| 6754.00  | Steel     | Steel     | 2040             | 35 | 1 | 2          | 15 | -    | -  | -   |
| 6755.70  | Aluminium | Aluminium | 2000             | 35 | 1 | 3          | 30 | -    | -  | -   |

Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry.

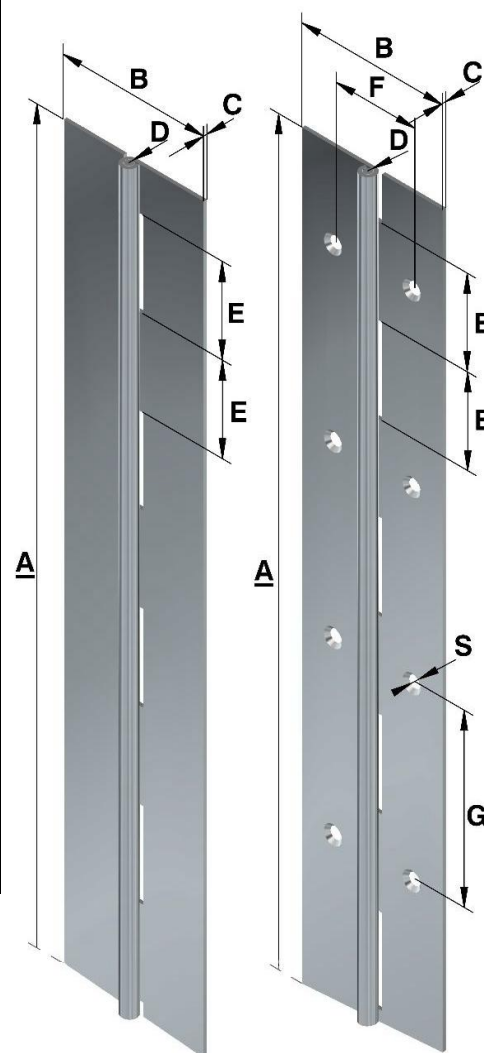


## Piano hinges

Width: 40 mm

| Art. no. | Material                              |                 | Dimensions in mm |    |     |    |      |      |    |     |
|----------|---------------------------------------|-----------------|------------------|----|-----|----|------|------|----|-----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ | E    | F    | G  | ØS  |
| 6757.70  | Aluminium                             | Aluminium       | 1000             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6758.04  | Zinc plated steel                     | Brass           | 1800             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6759.30  | Stainless steel                       | Stainless steel | 1800             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6760.35  | Stainless steel                       | Stainless steel | 2040             | 40 | 1,2 | 3  | 30   | 22,7 | 60 | 4,2 |
| 6763.00  | Steel                                 | Steel           | 2040             | 40 | 0,8 | 2  | 15   | -    | -  | -   |
| 6764.30  | Stainless steel                       | Stainless steel | 2040             | 40 | 0,8 | 2  | 15   | -    | -  | -   |
| 6765.00  | Steel                                 | Steel           | 2040             | 40 | 1,2 | 3  | 30   | 22,7 | 60 | 3,2 |
| 6767.00  | Steel                                 | Steel           | 2040             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6769.70  | Aluminium                             | Aluminium       | 2000             | 40 | 1,2 | 3  | 20   | -    | -  | -   |
| 6770.30  | Stainless steel                       | Stainless steel | 1020             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6771.30  | Stainless steel                       | Stainless steel | 2040             | 40 | 1,2 | 3  | 30   | -    | -  | -   |
| 6773.00  | Steel                                 | Steel           | 2040             | 40 | 1,5 | 4  | 15   | -    | -  | -   |
| 6774.30  | Stainless steel                       | Stainless steel | 2040             | 40 | 1,5 | 4  | 15   | -    | -  | -   |
| 6775.30  | Stainless steel<br>Seawater resistant | Stainless steel | 2040             | 40 | 1,5 | 4  | 15   | -    | -  | -   |
| 6776.70  | Aluminium                             | Aluminium       | 2040             | 40 | 1,5 | 4  | 15   | -    | -  | -   |
| 6779.30  | Stainless steel                       | Stainless steel | 2040             | 40 | 1,5 | 4  | 15   | 22,7 | 60 | 4   |
| 6756.00  | Steel                                 | Steel           | 1950             | 40 | 1,5 | 3  | 12,5 | -    | -  | -   |
| 6756.30  | Stainless steel                       | Stainless steel | 1950             | 40 | 1,5 | 3  | 12,5 | -    | -  | -   |
| 6799.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1020             | 40 | 1,5 | 4  | 15   | -    | -  | -   |

Zinc plated steel - the hinge is prepared from already zinc plated steel.  
The edge cuts are, thus, not zinc plated.  
Hinges can be delivered in other lengths, according to enquiry.



Width: 44 mm

| Art. no. | Material        |                 | Dimensions in mm |    |   |    |    |
|----------|-----------------|-----------------|------------------|----|---|----|----|
|          | Rod             | Pin             | A                | B  | C | DØ | E  |
| 6777.30  | Stainless steel | Stainless steel | 2040             | 44 | 2 | 6  | 30 |

Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.



## Piano hinges

Width: 50 mm

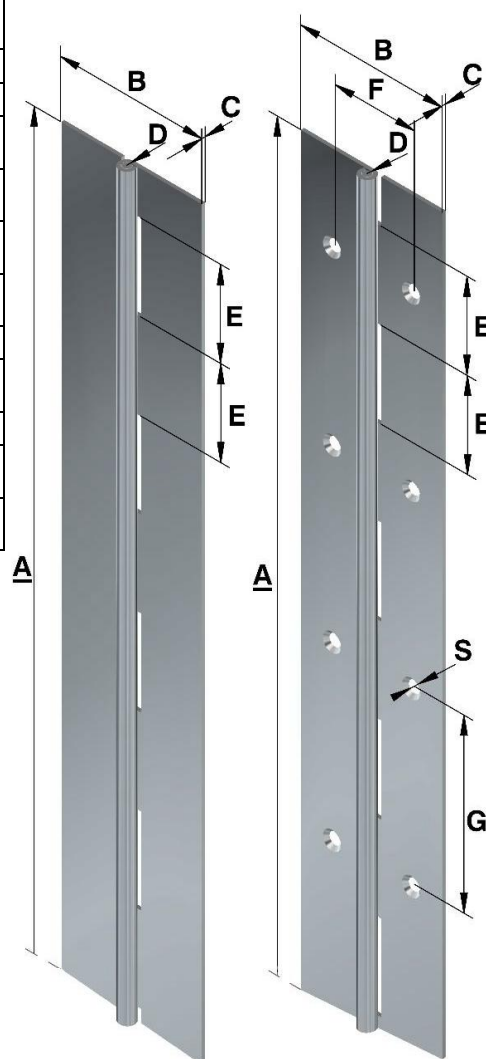
| Art. no. | Material                              |                 | Dimensions in mm |    |     |    |      |    |    |    |
|----------|---------------------------------------|-----------------|------------------|----|-----|----|------|----|----|----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ | E    | F  | G  | ØS |
| 6781.00  | Steel                                 | Steel           | 2040             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6783.00  | Steel                                 | Steel           | 2040             | 50 | 1,2 | 3  | 30   | 28 | 60 | 4  |
| 6784.70  | Aluminium                             | Aluminium       | 2000             | 50 | 1,2 | 3  | 20   | -  | -  | -  |
| 6785.30  | Stainless steel                       | Stainless steel | 2040             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6786.70  | Aluminium                             | Aluminium       | 2000             | 50 | 1,5 | 4  | 15   | -  | -  | -  |
| 6787.30  | Stainless steel                       | Stainless steel | 2000             | 50 | 2   | 4  | 25   | -  | -  | -  |
| 6788.00  | Steel                                 | Steel           | 2040             | 50 | 2   | 6  | 30   | -  | -  | -  |
| 6790.04  | Zinc plated steel                     | Brass           | 1800             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6791.30  | Stainless steel                       | Stainless steel | 1800             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6792.30  | Stainless steel                       | Stainless steel | 2040             | 50 | 1,2 | 3  | 30   | 28 | 60 | 4  |
| 6793.30  | Stainless steel                       | Stainless steel | 1800             | 50 | 1,5 | 4  | 15   | -  | -  | -  |
| 6794.30  | Stainless steel<br>Seawater resistant | Stainless steel | 2040             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6798.00  | Steel                                 | Steel           | 1950             | 50 | 1,5 | 3  | 12,5 | -  | -  | -  |
| 6798.30  | Stainless steel                       | Stainless steel | 1950             | 50 | 1,5 | 3  | 12,5 | -  | -  | -  |
| 6809.70  | Aluminium                             | Aluminium       | 1000             | 50 | 1,5 | 4  | 15   | -  | -  | -  |
| 6822.30  | Stainless steel                       | Stainless steel | 1020             | 50 | 1,2 | 3  | 30   | -  | -  | -  |
| 6823.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1020             | 50 | 1,2 | 3  | 20   | -  | -  | -  |

Zinc plated steel - the hinge is prepared from already zinc plated steel.  
The edge cuts are, thus, not zinc plated.  
Hinges can be delivered in other lengths, according to enquiry.  
Other perforations/perforation distances are possible, according to enquiry.

Width: 57 mm

| Art. no. | Material         |                 | Dimensions in mm |    |     |    |    |
|----------|------------------|-----------------|------------------|----|-----|----|----|
|          | Rod              | Pin             | A                | B  | C   | DØ | E  |
| 6795.04  | Galvanized steel | Brass           | 2160             | 57 | 1,5 | 4  | 15 |
| 6796.30  | Stainless steel  | Stainless steel | 2160             | 57 | 1,5 | 4  | 15 |
| 6797.04  | Galvanized steel | Brass           | 2160             | 57 | 2   | 6  | 30 |

Galvanized Steel - the hinge is prepared from already zinc plated steel.  
The edge cuts are, thus, not zinc plated.  
Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.



## Piano hinges

Width: 60 mm

| Art. no. | Material                              |                 | dimensions in mm |    |     |    |    |    |    |    |
|----------|---------------------------------------|-----------------|------------------|----|-----|----|----|----|----|----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ | E  | F  | G  | ØS |
| 6704.30  | Stainless steel                       | Stainless steel | 1020             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6705.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1020             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6801.00  | Steel                                 | Steel           | 2000             | 60 | 1,5 | 8  | 40 | -  | -  | -  |
| 6802.00  | Steel                                 | Steel           | 2000             | 60 | 1,5 | 5  | 40 | -  | -  | -  |
| 6803.00  | Steel                                 | Steel           | 2040             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6804.30  | Stainless steel                       | Stainless steel | 2040             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6805.30  | Seawater resistant<br>Stainless steel | Stainless steel | 2040             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6806.70  | Aluminium                             | Aluminium       | 2000             | 60 | 2   | 6  | 30 | -  | -  | -  |
| 6807.30  | Stainless steel                       | Stainless steel | 2040             | 60 | 2   | 6  | 30 | 35 | 60 | 4  |

Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry.

Width: 63 mm

| Art. no. | Material        |                 | Dimensions in mm |    |     |    |    |
|----------|-----------------|-----------------|------------------|----|-----|----|----|
|          | Rod             | Pin             | A                | B  | C   | DØ | E  |
| 6808.30  | Stainless steel | Stainless steel | 1800             | 63 | 1,5 | 4  | 15 |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

Width: 70 mm

| Art. no. | Material        |                 | Dimensions in mm |    |     |    |    |
|----------|-----------------|-----------------|------------------|----|-----|----|----|
|          | Rod             | Pin             | A                | B  | C   | DØ | E  |
| 6810.30  | Stainless steel | Stainless steel | 1800             | 70 | 1,5 | 4  | 15 |
| 6811.00  | Steel           | Steel           | 2040             | 70 | 2   | 6  | 30 |
| 6812.30  | Stainless steel | Stainless steel | 2040             | 70 | 2   | 6  | 30 |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

Width: 76 mm

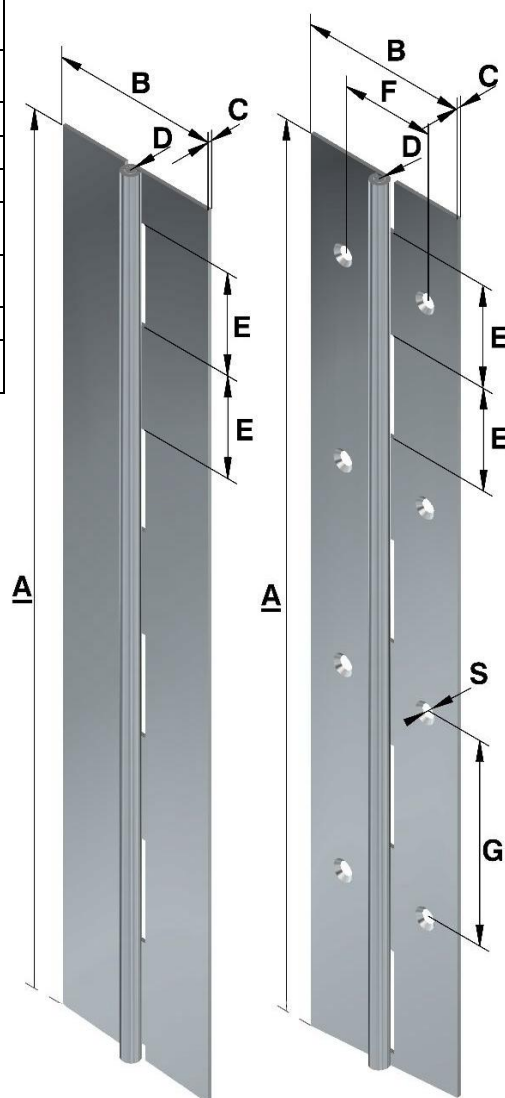
| Art. no. | Material         |                 | Dimensions in mm |    |     |    |    |
|----------|------------------|-----------------|------------------|----|-----|----|----|
|          | Rod              | Pin             | A                | B  | C   | DØ | E  |
| 6817.04  | galvanized Steel | Brass           | 2160             | 76 | 1,5 | 4  | 15 |
| 6818.30  | Stainless steel  | Stainless steel | 2160             | 76 | 1,5 | 4  | 15 |

Galvanized steel - the hinge is prepared from already zinc plated steel.

The edge cuts are, thus, not zinc plated.

Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry.



## Piano hinges

Width: 80 mm

| Art. no. | Material                              |                 | Dimensions in mm |    |     |     |      |    |    |     |
|----------|---------------------------------------|-----------------|------------------|----|-----|-----|------|----|----|-----|
|          | Rod                                   | Pin             | A                | B  | C   | DØ  | E    | F  | G  | S   |
| 6813.00  | Steel                                 | Steel           | 2000             | 80 | 2   | 7,6 | 40   | -  | -  | -   |
| 6814.30  | Stainless steel                       | Stainless steel | 1000             | 80 | 3   | 6   | 40   | -  | -  | -   |
| 6815.00  | Steel                                 | Steel           | 2000             | 80 | 3   | 6   | 40   | -  | -  | -   |
| 6816.30  | Stainless steel                       | Stainless steel | 2000             | 80 | 3   | 6   | 40   | -  | -  | -   |
| 6819.00  | Steel                                 | Steel           | 1950             | 80 | 1,5 | 3   | 12,5 | -  | -  | -   |
| 6819.30  | Stainless steel                       | Stainless steel | 1950             | 80 | 1,5 | 3   | 12,5 | -  | -  | -   |
| 6820.70  | Aluminium                             | Aluminium       | 2000             | 80 | 3   | 6   | 40   | -  | -  | -   |
| 6828.30  | Stainless steel                       | Stainless steel | 2000             | 80 | 3   | 6   | 40   | 35 | 60 | 5,2 |
| 6829.30  | Stainless steel<br>Seawater resistant | Stainless steel | 1980             | 80 | 2   | 6   | 30   | -  | -  | -   |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

Width: 100 mm

| Art. no. | Material                      |                 | Dimensions in mm |     |   |    |    |
|----------|-------------------------------|-----------------|------------------|-----|---|----|----|
|          | Rod                           | Pin             | A                | B   | C | DØ | E  |
| 6830.00  | Steel                         | Steel           | 2000             | 100 | 3 | 10 | 40 |
| 6830.30  | Stainless steel<br>on enquiry | Stainless steel | 2000             | 100 | 3 | 10 | 40 |
| 6836.00  | Steel                         | Steel           | 1000             | 100 | 4 | 10 | 40 |
| 6836.70  | Aluminium                     | Steel           | 1000             | 100 | 4 | 10 | 40 |
| 6838.30  | Stainless steel               | Stainless steel | 2000             | 100 | 3 | 6  | 40 |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

Width: 120 mm

| Art. no. | Material        |                 | Dimensions in mm |     |   |            |    |
|----------|-----------------|-----------------|------------------|-----|---|------------|----|
|          | Rod             | Pin             | A                | B   | C | D<br>Pin Ø | E  |
| 6831.30  | Stainless steel | Stainless steel | 2100             | 120 | 2 | 6          | 30 |
| 6840.00  | Steel           | Steel           | 1000             | 120 | 5 | 10         | 40 |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

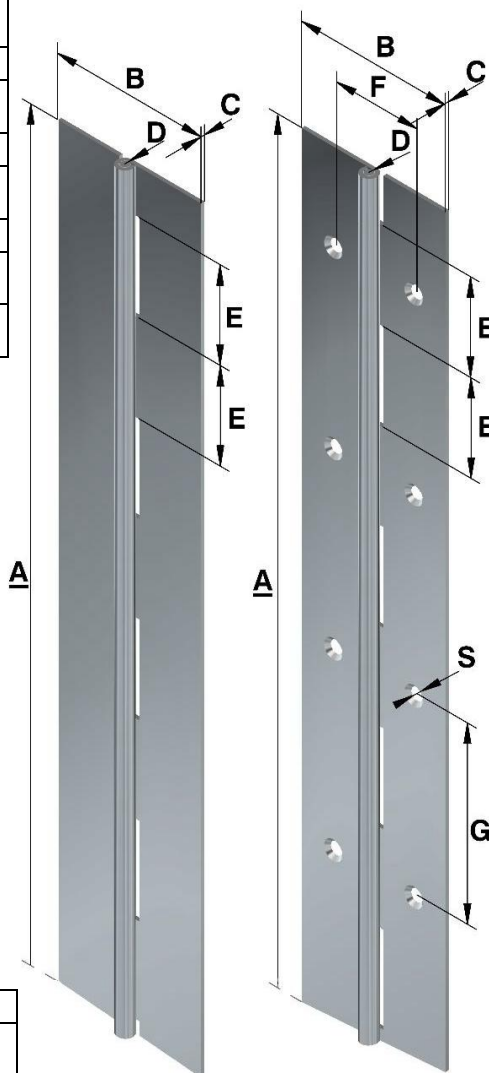
Width: 127 mm

| Art. no. | Material          |       | Dimensions in mm |     |   |   |    |
|----------|-------------------|-------|------------------|-----|---|---|----|
|          | Rod               | Pin   | A                | B   | C | D | E  |
| 6833.04  | zinc plated steel | brass | 2160             | 127 | 3 | 6 | 40 |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry. The hinge is prepared from already zinc plated steel.

The edge cuts are, thus, not zinc plated.



## Piano hinges

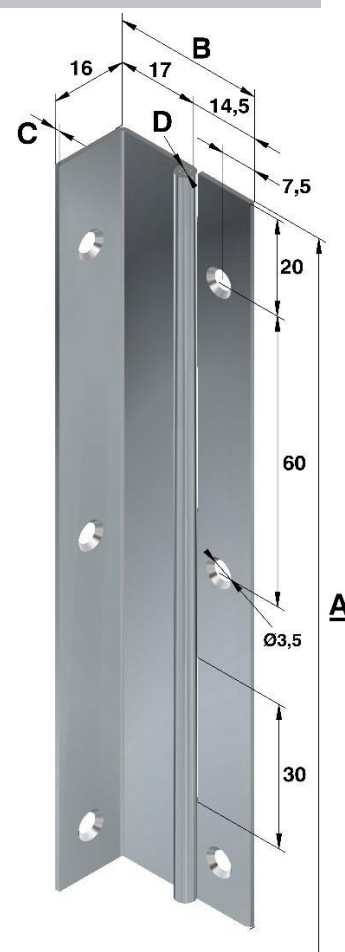
### Piano hinges, rolled, angulated

#### 1 angulated leaf

| Art. no. | Material        |                 | Dimensions in mm |      |   |            |
|----------|-----------------|-----------------|------------------|------|---|------------|
|          | Rod             | Pin             | A                | B    | C | D<br>Pin Ø |
| 6832.04  | Zinc plated     | Stainless steel | 1000             | 31,5 | 1 | 2          |
| 6834.04  | Zinc plated     | Stainless steel | 2000             | 31,5 | 1 | 2          |
| 6835.30  | Stainless steel | Stainless steel | 2000             | 31,5 | 1 | 2          |

Hinges can be delivered in other lengths, according to enquiry.

Other perforations/perforation distances are possible, according to enquiry.

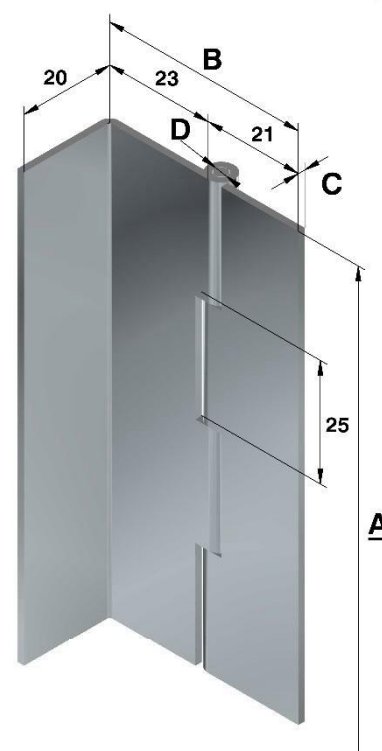


#### 1 angulated leaf

| Art. no. | Material        |                 | Dimensions in mm |    |     |            |
|----------|-----------------|-----------------|------------------|----|-----|------------|
|          | Rod             | Pin             | A                | B  | C   | D<br>Pin Ø |
| 6837.04  | Zinc plated     | Stainless steel | 2000             | 44 | 1,5 | 3          |
| 6837.30  | Stainless steel | Stainless steel | 2000             | 44 | 1,5 | 3          |
| 6839.30  | Stainless steel | Stainless steel | 1600             | 44 | 1,5 | 3          |

Hinges can be delivered in other lengths, according to enquiry.

Completion may be perforated, according to enquiry.

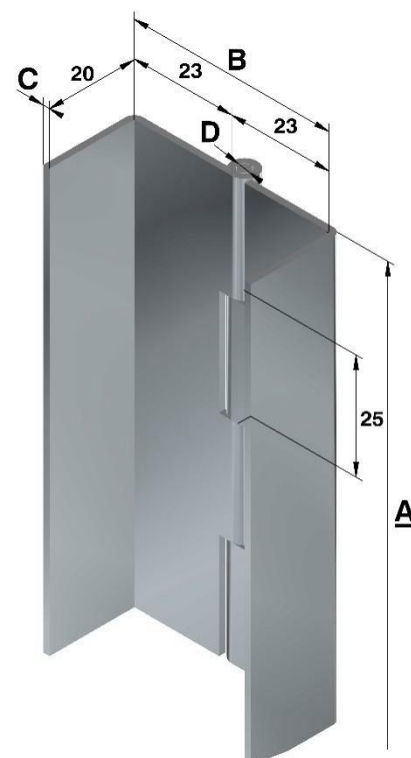


## Piano hinges

### 2 angulated leaf

| Art. no. | Material        |                 | Dimensions in mm |    |     |            |    |
|----------|-----------------|-----------------|------------------|----|-----|------------|----|
|          | Rod             | Pin             | A                | B  | C   | D<br>Pin Ø | E  |
| 6844.04  | Zinc plated     | Stainless steel | 2000             | 46 | 1,5 | 3          | 25 |
| 6846.30  | Stainless steel | Stainless steel | 2000             | 46 | 1,5 | 3          | 25 |

Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.



### Plastic hinges in rolls of 15.25 m

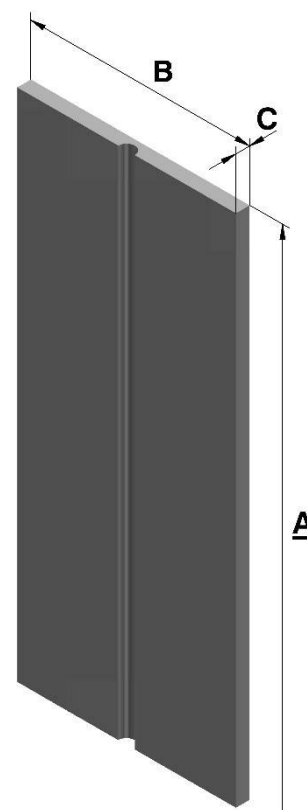
Technical information:

Temperature: - 40° C up to + 80°C.

Fixing with rivets, bolts, nails, bars.

Chemical resistance: oil, seawater, solvents and most chemical substances.

| Art. no. | Colour | Material      | Dimensions in mm |      |     |
|----------|--------|---------------|------------------|------|-----|
|          |        |               | A                | B    | C   |
| 6521.01  | White  | Polypropylene | 15250            | 28,6 | 3,2 |
| 6521.02  | Gray   | Polypropylene | 15250            | 28,6 | 3,2 |
| 6521.03  | Black  | Polypropylene | 15250            | 28,6 | 3,2 |
| 6522.01  | White  | Polypropylene | 15250            | 38,1 | 3,2 |
| 6522.02  | Gray   | Polypropylene | 15250            | 38,1 | 3,2 |
| 6522.03  | Black  | Polypropylene | 15250            | 38,1 | 3,2 |
| 6523.01  | White  | Polypropylene | 15250            | 50,8 | 3,2 |
| 6523.02  | Gray   | Polypropylene | 15250            | 50,8 | 3,2 |
| 6523.03  | Black  | Polypropylene | 15250            | 50,8 | 3,2 |
| 6524.01  | White  | Polypropylene | 15250            | 76,2 | 3,2 |
| 6524.02  | Gray   | Polypropylene | 15250            | 76,2 | 3,2 |
| 6524.03  | Black  | Polypropylene | 15250            | 76,2 | 3,2 |





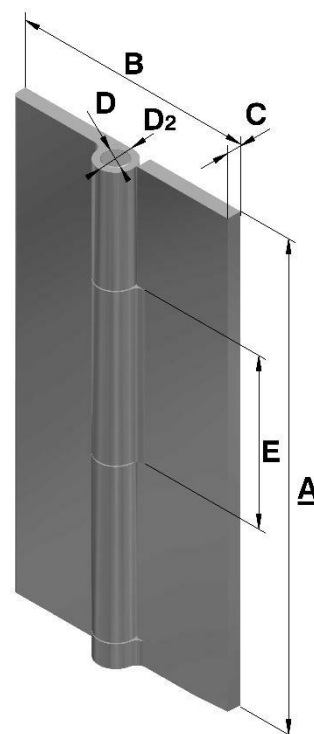
## Piano hinges

### Aluminium profile hinge

Width 50

| Art. no. | Material          |                 | Dimensions in mm |    |   |            |      |
|----------|-------------------|-----------------|------------------|----|---|------------|------|
|          | Rod               | Pin             | A                | B  | C | D<br>Pin Ø | E    |
| 6848.70  | Aluminium 6060 T5 | Stainless steel | 2000             | 50 | 3 | 5,2        | 35,5 |

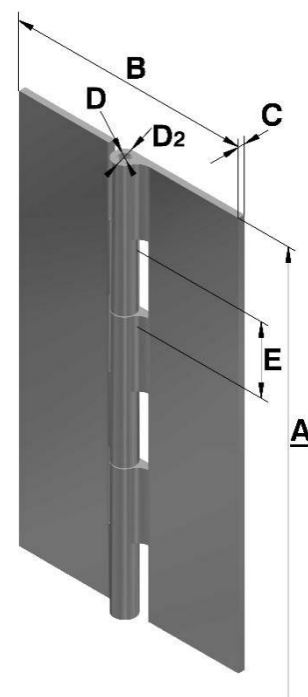
Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.



### Aluminium profile hinge

| Art. no. | Material          |                 | Dimensions in mm |       |     |            |      |
|----------|-------------------|-----------------|------------------|-------|-----|------------|------|
|          | Rod               | Pin             | A                | B     | C   | D<br>Pin Ø | E    |
|          | Aluminium 6082 T5 |                 |                  |       |     |            |      |
| 6841.71  | Anodized          | Stainless steel | 915              | 31,75 | 1,3 | 2,2        | 12,7 |
| 6842.70  | Raw               | Stainless steel | 915              | 44,45 | 1,3 | 2,2        | 12,7 |
| 6843.71  | Anodized          | Stainless steel | 1830             | 44,45 | 1,3 | 2,2        | 12,7 |
| 6845.70  | Raw               | Stainless steel | 915              | 63,5  | 1,3 | 2,2        | 12,7 |
| 6847.71  | Anodized          | Stainless steel | 1830             | 63,5  | 1,3 | 2,2        | 12,7 |
| 6849.70  | Raw               | Stainless steel | 1830             | 31,75 | 1,3 | 2,2        | 12,7 |

Hinges can be delivered in other lengths, according to enquiry.  
Completion may be perforated, according to enquiry.

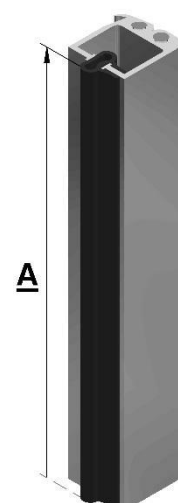
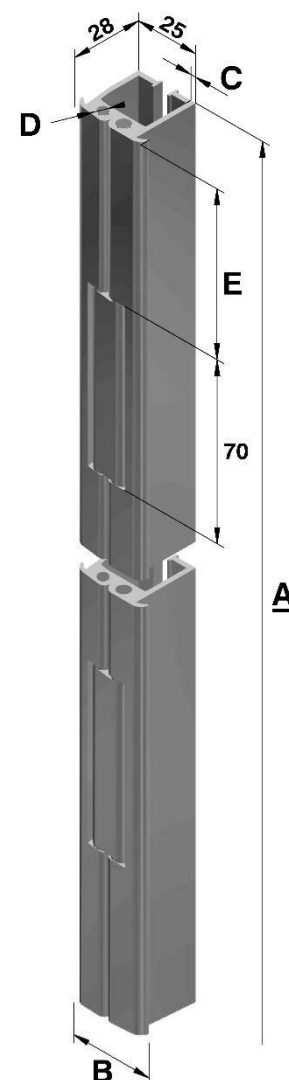


## Piano hinges

### Aluminium profile hinge with double articulation

Opening angle of 180° without sealing (ordered separately)

| Art. no. | Material          |                 | Dimensions in mm |     |            |
|----------|-------------------|-----------------|------------------|-----|------------|
|          | Rod               | Pin             | A                | B   | D<br>Pin Ø |
| 6850.70  | Aluminium 6060 T5 | Stainless steel | 2000             | 65  | 5          |
| 6851.70  | Aluminium 6060 T5 | Stainless steel | 2500             | 15  | 5          |
| 6852.70  | Aluminium 6060 T5 | Stainless steel | 3000             | 115 | 5          |



### Sealing

for hinge with double articulation

| Art. no. | Material      | Dimensions in mm |
|----------|---------------|------------------|
|          |               | A                |
| 6853.D   | Rubber, Black | 2000             |
| 6854.D   | Rubber, Black | 2500             |
| 6855.D   | Rubber, Black | 3000             |

## Piano hinges



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## Hinges





## Hinges







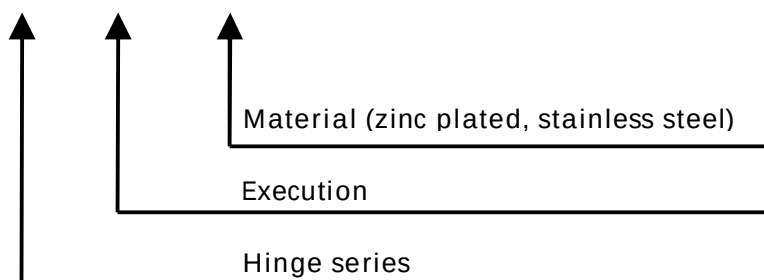
## Hinges

### Materials and surface finishes:

|     |                                             |
|-----|---------------------------------------------|
| .00 | Raw steel                                   |
| .01 | Nickel-plated                               |
| .02 | Brassed                                     |
| .03 | Chromated                                   |
| .04 | Zinc plated steel                           |
| .05 | Bronzed                                     |
| .06 | Black zinc plated                           |
| .07 | Blued                                       |
| .08 | Yellow chromated                            |
| .09 | EPD (Electrophoretic deposition)            |
| .10 | Anodized silver-coloured                    |
| .20 | Raw Brass                                   |
| .22 | Polished Brass                              |
| .23 | Chromated Brass                             |
| .30 | Raw stainless steel (1.4301)                |
| .33 | Polished stainless steel                    |
| .35 | Raw stainless steel (1.4401)                |
| .50 | Raw Zamak (zinc aluminium magnesium copper) |
| .70 | Raw aluminium                               |
| .80 | Raw polyamide                               |

### Ordering example:

Art.no 6001. 01/02. 04/30

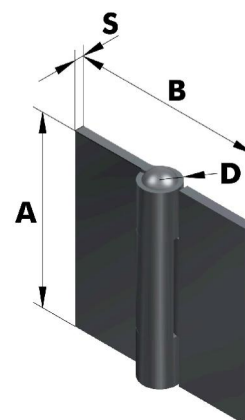


## Hinges

### Art. no.: 6001

with extractable pin

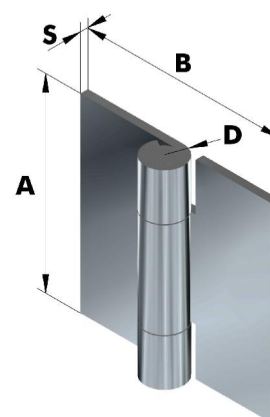
| Article no. |           |          | Dimensions in mm |    |    |   |       |
|-------------|-----------|----------|------------------|----|----|---|-------|
| Series      | Execution | Material | A                | B  | D  | S | Pin Ø |
|             |           | Raw      |                  |    |    |   |       |
|             |           | Steel    |                  |    |    |   |       |
| 6001        | .01       | .00      | 40               | 40 | 8  | 2 | 4     |
| 6001        | .02       | .00      | 50               | 50 | 10 | 2 | 6     |
| 6001        | .03       | .00      | 60               | 60 | 10 | 2 | 6     |
| 6001        | .04       | .00      | 70               | 70 | 10 | 2 | 6     |



### Art. no.: 6002

with riveted pin

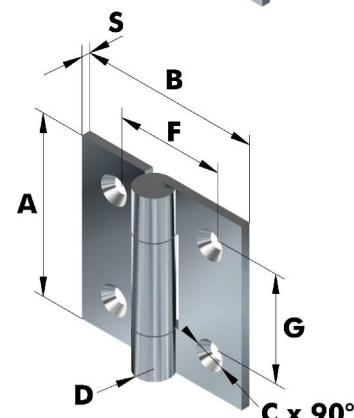
| Article no. |           |          |                 |                 | Dimensions in mm |     |    |     |     |          |
|-------------|-----------|----------|-----------------|-----------------|------------------|-----|----|-----|-----|----------|
| Series      | Execution | Material |                 |                 | A                | B   | D  | E   | S   | Pin<br>Ø |
|             |           | Raw      |                 |                 |                  |     |    |     |     |          |
|             |           | Steel    | Stainless steel | Stainless steel |                  |     |    |     |     |          |
| 6002        | .01       | .00      | .30             | .35             | 40               | 40  | 8  | 4   | 2   | 4        |
| 6002        | .02       | .00      | .30             | .35             | 50               | 50  | 10 | 5   | 2   | 6        |
| 6002        | .03       | .00      | .30             | .35             | 60               | 60  | 10 | 5   | 2   | 6        |
| 6002        | .04       | .00      | .30             | -               | 70               | 70  | 10 | 5   | 2   | 6        |
| 6002        | .05       | .00      | .30             | -               | 80               | 80  | 11 | 5,5 | 2,5 | 6        |
| 6002        | .06       | .00      | .30             | -               | 100              | 100 | 11 | 5,5 | 2,5 | 6        |



### Art. no.: 6002 (drilled and countersunk)

with riveted pin

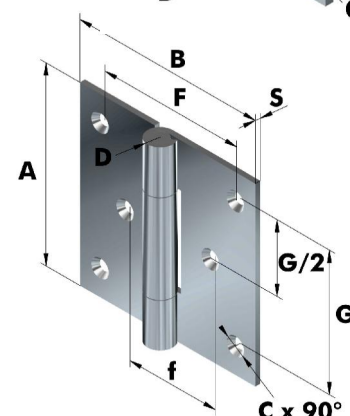
| Article no. |           |                 |                 | Dimensions in mm |    |     |    |    |    |   |       |
|-------------|-----------|-----------------|-----------------|------------------|----|-----|----|----|----|---|-------|
| Series      | Execution | Material        |                 | A                | B  | C Ø | D  | F  | G  | S | Pin Ø |
|             |           | Raw             |                 |                  |    |     |    |    |    |   |       |
|             |           | Stainless steel | Stainless steel |                  |    |     |    |    |    |   |       |
| 6002        | .07       | .30             | .35             | 40               | 40 | 4   | 8  | 24 | 24 | 2 | 4     |
| 6002        | .08       | .30             | .35             | 50               | 50 | 4,5 | 10 | 34 | 34 | 2 | 6     |
| 6002        | .09       | .30             | .35             | 60               | 60 | 4,5 | 10 | 44 | 40 | 2 | 6     |



### Art. no.: 6002 (drilled and countersunk)

with riveted pin

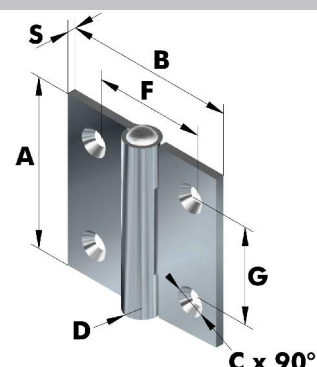
| Article no. |           |                 | Dimensions in mm |    |     |    |    |    |    |     |       |  |
|-------------|-----------|-----------------|------------------|----|-----|----|----|----|----|-----|-------|--|
| Series      | Execution | Material        | A                | B  | C Ø | D  | F  | f  | G  | S   | Pin Ø |  |
|             |           | Raw             |                  |    |     |    |    |    |    |     |       |  |
|             |           | Stainless steel |                  |    |     |    |    |    |    |     |       |  |
| 6002        | .10       | .30             | 70               | 70 | 4,5 | 10 | 54 | 34 | 50 | 2   | 6     |  |
| 6002        | .11       | .30             | 80               | 80 | 4.5 | 11 | 64 | 39 | 60 | 2.5 | 6     |  |



## Hinges

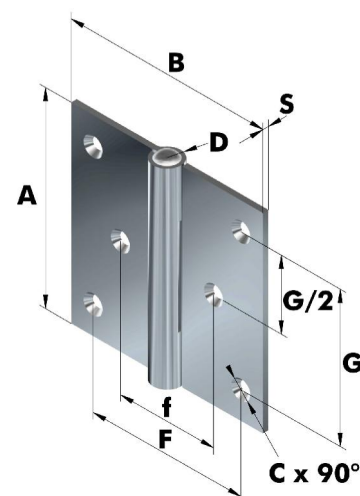
**Art. no.: 6003** (drilled and countersunk)  
with extractable pin

| Article no. |           |             |                 | Dimensions in mm |    |     |    |    |    |   |       |
|-------------|-----------|-------------|-----------------|------------------|----|-----|----|----|----|---|-------|
| Series      | Execution | Material    |                 | A                | B  | C Ø | D  | F  | G  | S | Pin Ø |
|             |           | Zinc plated | Raw             |                  |    |     |    |    |    |   |       |
|             |           | Steel       | Stainless steel |                  |    |     |    |    |    |   |       |
| 6003        | .01       | .04         | .30             | 40               | 40 | 4   | 8  | 26 | 24 | 2 | 4     |
| 6003        | .02       | .04         | .30             | 50               | 50 | 4.5 | 10 | 34 | 34 | 2 | 6     |
| 6003        | .03       | .04         | .30             | 60               | 60 | 4.5 | 10 | 44 | 40 | 2 | 6     |



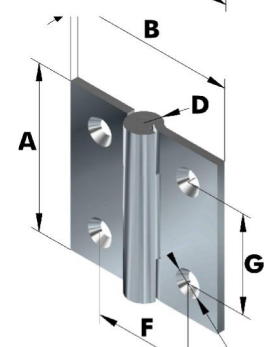
**Art. no.: 6004** (drilled and countersunk)  
with extractable pin

| Article no. |           |             |                 | Dimensions in mm |    |     |    |    |    |    |     |          |
|-------------|-----------|-------------|-----------------|------------------|----|-----|----|----|----|----|-----|----------|
| Series      | Execution | Material    |                 | A                | B  | C Ø | D  | F  | f  | G  | S   | Pin<br>Ø |
|             |           | Zinc plated | Raw             |                  |    |     |    |    |    |    |     |          |
|             |           | Steel       | Stainless steel |                  |    |     |    |    |    |    |     |          |
| 6004        | .01       | .04         | .30             | 70               | 70 | 4   | 10 | 54 | 34 | 50 | 2   | 6        |
| 6004        | .02       | .04         | .30             | 80               | 80 | 4.5 | 11 | 64 | 39 | 60 | 2.5 | 6        |



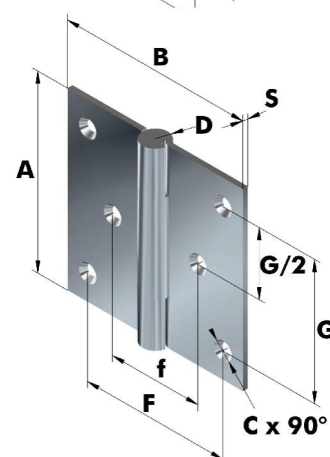
**Art. no.: 6005** (drilled and countersunk)  
with riveted pin

| Article no. |           |                 |                 | Dimensions in mm |    |     |    |    |    |   |          |
|-------------|-----------|-----------------|-----------------|------------------|----|-----|----|----|----|---|----------|
| Series      | Execution | Material        |                 | A                | B  | C Ø | D  | F  | G  | S | Pin<br>Ø |
|             |           | Raw             |                 |                  |    |     |    |    |    |   |          |
|             |           | Stainless steel | Stainless steel |                  |    |     |    |    |    |   |          |
| 6005        | .01       | .30             | .35             | 40               | 40 | 4   | 8  | 24 | 24 | 2 | 4        |
| 6005        | .02       | .30             | .35             | 50               | 50 | 4,5 | 10 | 34 | 34 | 2 | 6        |
| 6005        | .03       | .30             | .35             | 60               | 60 | 4,5 | 10 | 44 | 40 | 2 | 6        |



**Art. no.: 6006** (drilled and countersunk)  
with riveted pin

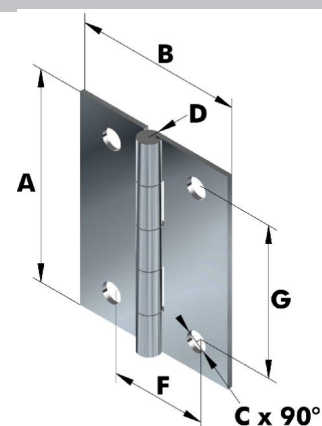
| Article no. |           |                 |                | Dimensions in mm |    |     |    |    |    |    |     |          |
|-------------|-----------|-----------------|----------------|------------------|----|-----|----|----|----|----|-----|----------|
| Series      | Execution | Material        |                | A                | B  | C Ø | D  | F  | f  | G  | S   | Pin<br>Ø |
|             |           | Raw             | Zinc<br>plated |                  |    |     |    |    |    |    |     |          |
|             |           | Stainless steel | Steel          |                  |    |     |    |    |    |    |     |          |
| 6006        | .01       | .30             | -              | 70               | 70 | 4,5 | 10 | 54 | 34 | 50 | 2   | 6        |
| 6006        | .02       | .30             | -              | 80               | 80 | 4,5 | 11 | 64 | 39 | 60 | 2,5 | 6        |
| 6006        | .04       | -               | .04            | 100              | 84 | 5,5 | -  | 55 | 42 | 79 | 3   | 6        |



## Hinges

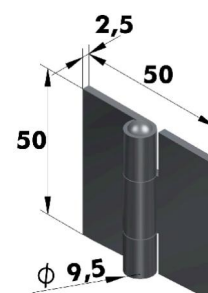
**Art. no.: 6007** (drilled and countersunk)  
with fixed pin

| Article no. |             |             |                 | Dimensions in mm |    |     |     |      |    |     |       |
|-------------|-------------|-------------|-----------------|------------------|----|-----|-----|------|----|-----|-------|
| Series      | Execution   | Material    |                 | A                | B  | C Ø | D   | F    | G  | S   | Pin Ø |
|             |             | Zinc plated | Raw             |                  |    |     |     |      |    |     |       |
|             |             | Steel       | Stainless steel |                  |    |     |     |      |    |     |       |
| 6007        | .01-drilled | .04         | .30             | 50               | 40 | 5   | 3,1 | 23   | 36 | 1,2 | 2,7   |
| 6007        | .02-sunk    | .04         | .30             | 50               | 40 | 5   | 3,1 | 23   | 36 | 1,2 | 2,7   |
| 6007        | .03-sunk    | -           | .30             | 60               | 35 | 4   | 2   | 19,5 | 40 | 1   | 1     |
| 6007        | .04-sunk    | -           | .30             | 60               | 35 | 4   | 2   | 19,5 | 40 | 1   | 1     |



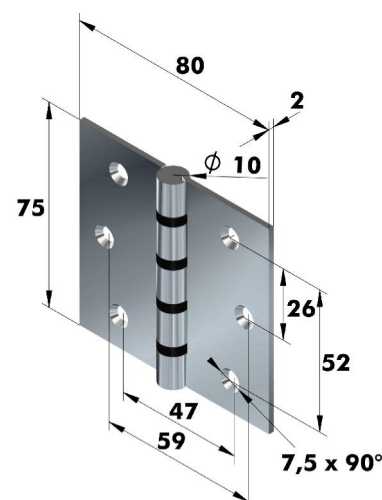
**Art. no.: 6008**  
with riveted pin

| Article no. |           |          |  |
|-------------|-----------|----------|--|
| Series      | Execution | Material |  |
|             |           | Raw      |  |
|             |           | Steel    |  |
| 6008        | .01       | .00      |  |



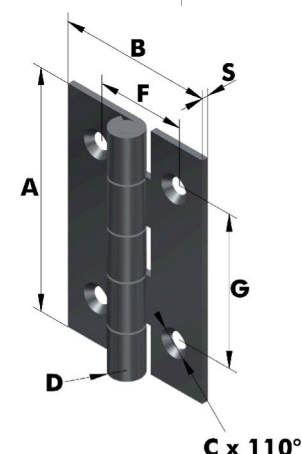
**Art. no.: 6009** (drilled and countersunk)  
with fixed pin and nylon transitional ring

| Article no. |           |                 |  |
|-------------|-----------|-----------------|--|
| Series      | Execution | Material        |  |
|             |           | Raw             |  |
|             |           | Stainless steel |  |
| 6009        | .01       | .30             |  |



**Art. no.: 6010** (drilled and countersunk)  
with fixed pin

| Article no. |           |          |                 | Dimensions in mm |      |     |     |      |      |     |       |
|-------------|-----------|----------|-----------------|------------------|------|-----|-----|------|------|-----|-------|
| Series      | Execution | Material |                 | A                | B    | C Ø | D   | F    | G    | S   | Pin Ø |
|             |           | Raw      |                 |                  |      |     |     |      |      |     |       |
|             |           | Steel    | Stainless steel |                  |      |     |     |      |      |     |       |
| 6010        | .01       | .00      | -               | 30               | 19   | 2   | 4   | 11   | 19   | 0,8 | 2,4   |
| 6010        | .02       | .00      | -               | 35               | 22   | 2,5 | 4   | 14   | 22   | 0,8 | 2,4   |
| 6010        | .03       | .00      | -               | 40               | 25   | 2,5 | 4,5 | 15   | 27   | 0,9 | 2,7   |
| 6010        | .04       | -        | .30             | 50               | 30   | 3,5 | 5   | 17   | 35   | 1   | 3     |
| 6010        | .05       | .00      | -               | 50,3             | 29,8 | 2,5 | 4,4 | 15,4 | 35,2 | 1   | 2,4   |

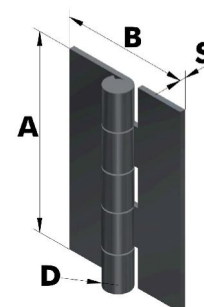


## Hinges

### Art. no.: 6010

with fixed steel pin

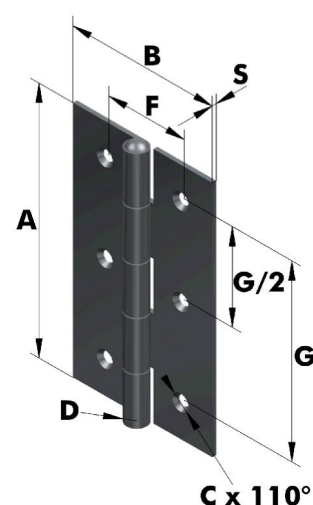
| Article no. |           |           | Dimensions in mm |      |     |     |       |
|-------------|-----------|-----------|------------------|------|-----|-----|-------|
| Series      | Execution | Material  | A                | B    | D   | S   | Pin Ø |
|             |           | Raw Steel |                  |      |     |     |       |
| 6010        | .06       | .00       | 30               | 19   | 4   | 0,8 | 2,4   |
| 6010        | .07       | .00       | 35               | 22   | 4   | 0,8 | 2,4   |
| 6010        | .08       | .00       | 40               | 25   | 4,5 | 0,9 | 2,7   |
| 6010        | .10       | .00       | 50,3             | 29,8 | 4,4 | 1   | 2,4   |



### Art. no.: 6011 (drilled and countersunk)

with fixed steel pin

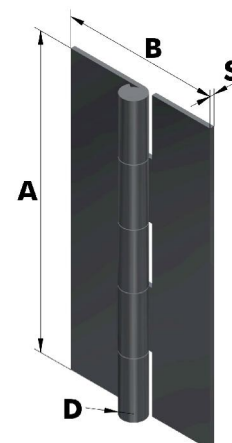
| Article no. |           |           | Dimensions in mm |      |     |     |      |      |     |       |
|-------------|-----------|-----------|------------------|------|-----|-----|------|------|-----|-------|
| Series      | Execution | Material  | A                | B    | C Ø | D   | F    | G    | S   | Pin Ø |
|             |           | Raw Steel |                  |      |     |     |      |      |     |       |
| 6011        | .01       | .00       | 60               | 35   | 2,5 | 5   | 19   | 44   | 1   | 3     |
| 6011        | .02       | .00       | 70               | 41,5 | 3   | 5,5 | 24,1 | 52   | 1   | 3,5   |
| 6011        | .03       | .00       | 80,5             | 45,4 | 4   | 5,5 | 26,2 | 59,3 | 1   | 3,5   |
| 6011        | .04       | .00       | 100              | 50   | 4,5 | 7,9 | 30   | 77   | 1,5 | 4,9   |



### Art. no.: 6011

with fixed steel pin, drills on inquiry

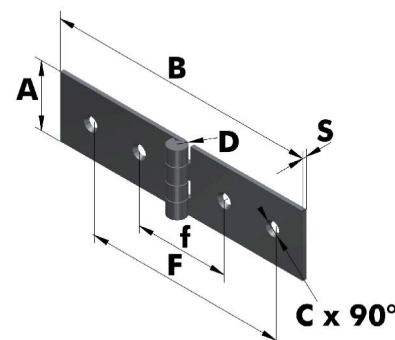
| Article no. |           |           | Dimensions in mm |      |     |     |       |
|-------------|-----------|-----------|------------------|------|-----|-----|-------|
| Series      | Execution | Material  | A                | B    | D   | S   | Pin Ø |
|             |           | Raw Steel |                  |      |     |     |       |
| 6011        | .05       | .00       | 60               | 35   | 5   | 1   | 3     |
| 6011        | .06       | .00       | 70               | 41,5 | 5,5 | 1   | 3,5   |
| 6011        | .07       | .00       | 80               | 45   | 6,3 | 1,2 | 3,9   |
| 6011        | .08       | .00       | 100              | 50   | 7,9 | 1,5 | 4,9   |



### Art. no.: 6013

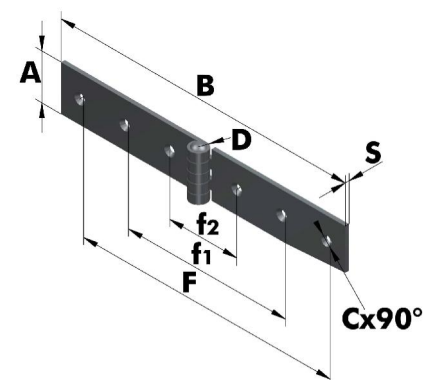
with fixed pin, drilled and countersunk

| Article no. |           |          | Dimensions in mm |     |     |     |    |    |     |       |
|-------------|-----------|----------|------------------|-----|-----|-----|----|----|-----|-------|
| Series      | Execution | Material | A                | B   | C Ø | D   | F  | f  | S   | Pin Ø |
|             |           | Raw      |                  |     |     |     |    |    |     |       |
|             |           | Steel    |                  |     |     |     |    |    |     |       |
| 6013        | .01       | .00      | 20               | 77  | 3   | 5,6 | 60 | 28 | 1,2 | 3     |
| 6013        | .02       | .00      | 22               | 120 | 4   | 8   | 93 | 33 | 1,5 | 4,9   |



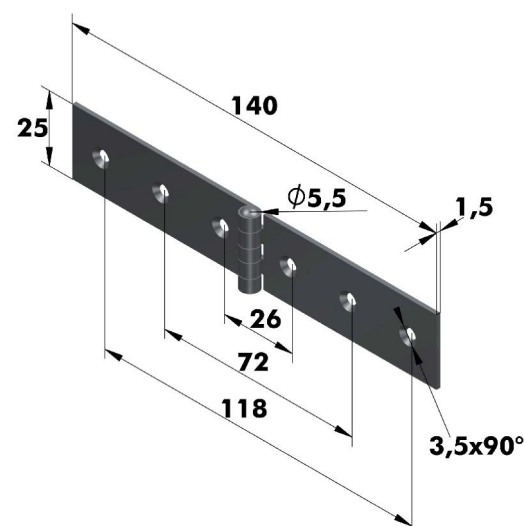
## Hinges

Art. no.: **6015** (drilled and countersunk)  
with fixed pin



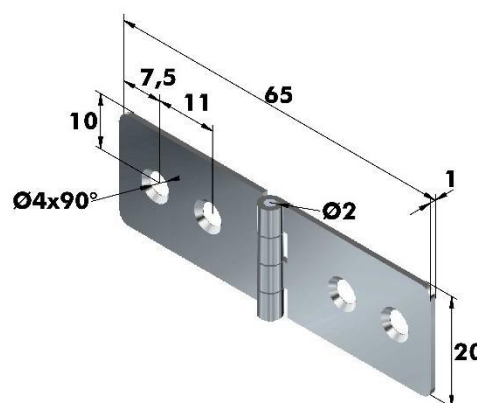
| Article no. |           |          |             | Dimensions in mm |     |     |    |     |     |    |     |       |
|-------------|-----------|----------|-------------|------------------|-----|-----|----|-----|-----|----|-----|-------|
| Series      | Execution | Material |             | A                | B   | C Ø | D  | F   | f1  | f2 | S   | Pin Ø |
|             |           | Raw      | Zinc plated |                  |     |     |    |     |     |    |     |       |
|             |           | Steel    | Steel       |                  |     |     |    |     |     |    |     |       |
| 6015        | .01       | .00      | .04         | 30               | 190 | 4   | 11 | 165 | 80  | 45 | 2,5 | 6     |
| 6015        | .02       | .00      | .04         | 30               | 220 | 4   | 11 | 193 | 118 | 43 | 2,5 | 6     |

Art. no.: **6016** (drilled and countersunk)  
with fixed pin



| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Raw      |
|             |           | Steel    |
| 6016        | .01       | .00      |

Art.Nr.: **6017** (perforated and countersunk)



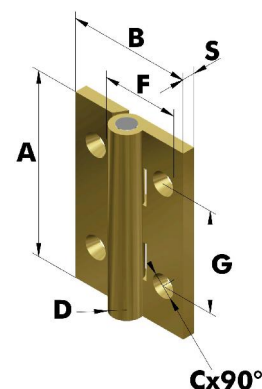
| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
|             |           | Stainless steel |
| 6017        | .01       | .30             |



## Hinges

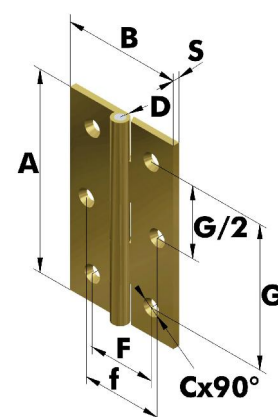
**Art. no.: 6018** (drilled and countersunk)  
with fixed stainless-steel pin

| Article no. |           |              | Dimensions in mm |    |     |   |      |      |   |       |
|-------------|-----------|--------------|------------------|----|-----|---|------|------|---|-------|
| Series      | Execution | Material     | A                | B  | C Ø | D | F    | G    | S | Pin Ø |
|             |           | Raw<br>Brass |                  |    |     |   |      |      |   |       |
| 6018        | .03       | .20          | 30               | 20 | 2,5 | 5 | 12,5 | 16,5 | 2 | 3     |
| 6018        | .04       | .20          | 30               | 30 | 2,5 | 5 | 19   | 17   | 2 | 3     |



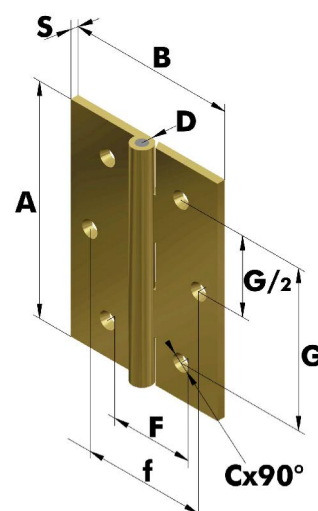
**Art. no.: 6019** (drilled and countersunk)  
with fixed stainless-steel pin

| Article no. |           |              | Dimensions in mm |    |     |     |      |    |    |   |       |
|-------------|-----------|--------------|------------------|----|-----|-----|------|----|----|---|-------|
| Series      | Execution | Material     | A                | B  | C Ø | D   | F    | f  | G  | S | Pin Ø |
|             |           | Raw<br>Brass |                  |    |     |     |      |    |    |   |       |
| 6019        | .03       | .20          | 40               | 35 | 3   | 5   | 21   | -  | 28 | 2 | 3     |
| 6019        | .04       | .20          | 40               | 40 | 3   | 5   | 23   | -  | 28 | 2 | 3     |
| 6019        | .05       | .20          | 50               | 30 | 3   | 5   | 17,5 | -  | 35 | 2 | 3     |
| 6019        | .06       | .20          | 60               | 35 | 3,5 | 5   | 20   | 24 | 43 | 2 | 3     |
| 6019        | .07       | .20          | 60               | 40 | 3,5 | 4,5 | 21,5 | 26 | 43 | 2 | 3     |



**Art. no.: 6020** (drilled and countersunk)  
with fixed stainless-steel pin

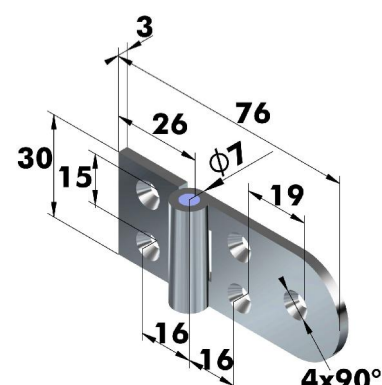
| Article no. |           |              | Dimensions in mm |    |     |     |      |      |    |     |       |
|-------------|-----------|--------------|------------------|----|-----|-----|------|------|----|-----|-------|
| Series      | Execution | Material     | A                | B  | C Ø | D   | F    | f    | G  | S   | Pin Ø |
|             |           | Raw<br>Brass |                  |    |     |     |      |      |    |     |       |
| 6020        | .01       | .20          | 70               | 40 | 3,5 | 5,5 | 23   | 27   | 48 | 2   | 3     |
| 6020        | .02       | .20          | 70               | 50 | 3,5 | 6,5 | 25   | 37   | 48 | 2,5 | 3,5   |
| 6020        | .03       | .20          | 80               | 45 | 3,5 | 5,5 | 22,5 | 30,5 | 58 | 2,2 | 3     |
| 6020        | .04       | .20          | 80               | 60 | 4   | 7   | 28   | 45   | 57 | 3   | 4     |



## Hinges

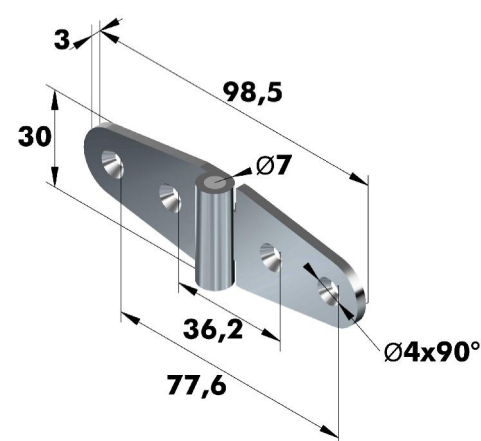
Art. no.: 6025 (perforated and countersunk)  
with fixed stainless-steel pin

| Article no. |           |           |
|-------------|-----------|-----------|
| Series      | Execution | Material  |
|             |           | Chromated |
| 6025        | .01       | Brass     |
|             |           | .23       |



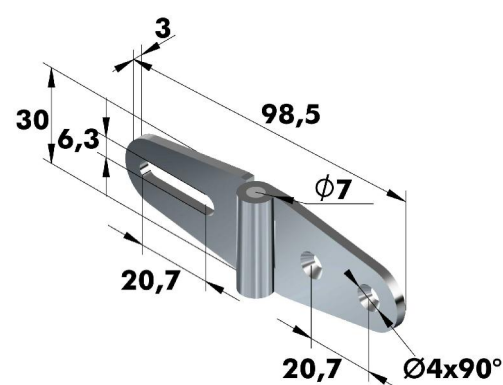
Art. no.: 6027 (perforated and countersunk)  
with fixed stainless-steel pin

| Article no. |           |           |
|-------------|-----------|-----------|
| Series      | Execution | Material  |
|             |           | Chromated |
| 6027        | .01       | Brass     |
|             |           | .23       |



Art. no.: 6028 (perforated and countersunk)  
with fixed stainless-steel pin

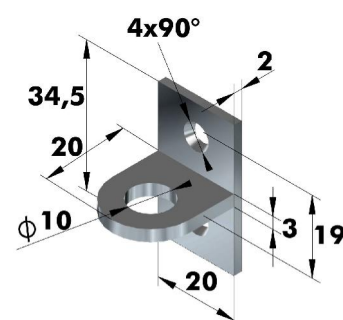
| Article no. |           |           |
|-------------|-----------|-----------|
| Series      | Execution | Material  |
|             |           | Chromated |
| 6028        | .01       | Brass     |
|             |           | .23       |



Art. no.: 6029 (perforated and countersunk)

Suitable to art. no.: 6026/6028

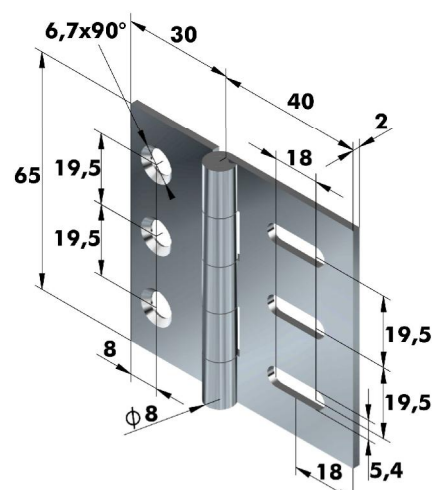
| Article no. |           |           |
|-------------|-----------|-----------|
| Series      | Execution | Material  |
|             |           | Chromated |
| 6029        | .01       | Brass     |
|             |           | .23       |



## Hinges

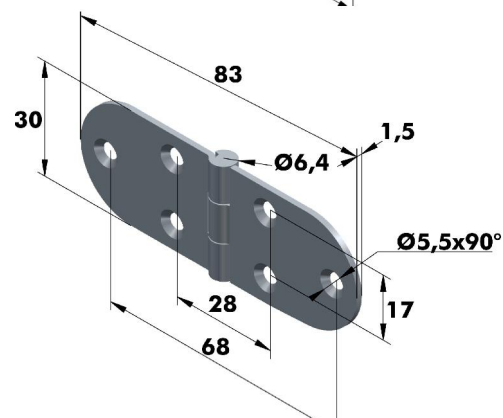
Art. no.: 6044 (perforated and countersunk)  
with fixed pin

| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6044        | .01       | Steel       |
|             |           | .04         |



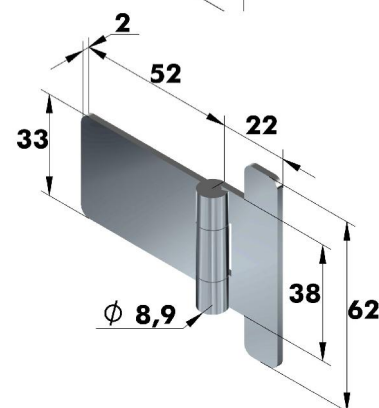
Art. no.: 6046 (perforated and countersunk)  
with fixed pin

| Article no. |           |               |
|-------------|-----------|---------------|
| Series      | Execution | Material      |
|             |           | Nickel plated |
| 6046        | .01       | Steel         |
|             |           | .01           |



Art. no.: 6047  
with fixed pin

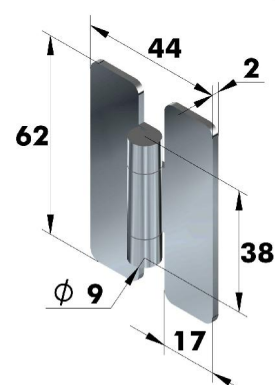
| Article no. |           |          |                 |
|-------------|-----------|----------|-----------------|
| Series      | Execution | Material |                 |
|             |           | Raw      |                 |
|             |           | Steel    | Stainless steel |
| 6047        | .01       | .00      | .30             |



Art. no.: 6048  
with fixed pin

Stainless steel (1.4301) on inquiry

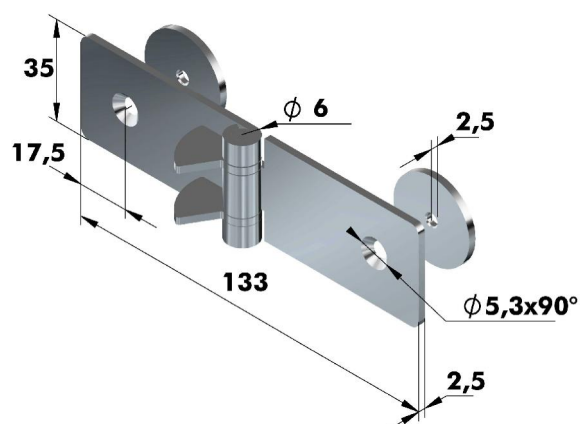
| Article no. |           |          |                 |
|-------------|-----------|----------|-----------------|
| Series      | Execution | Material |                 |
|             |           | Raw      |                 |
|             |           | Steel    | Stainless steel |
| 6048        | .01       | .00      | .30             |



## Hinges

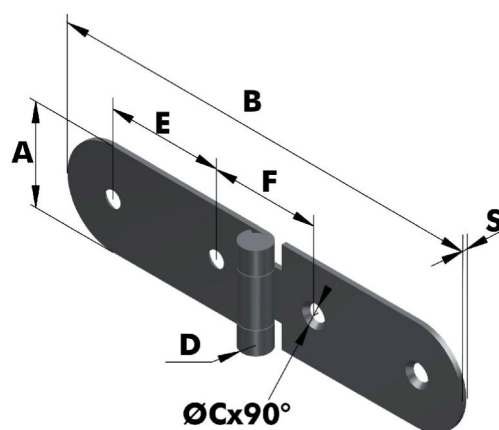
**Art. no.: 6052** (perforated and countersunk)  
with fixed pin  
Stop at 60°  
Suitable for the installation of glass doors.

| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Polished        |
| 6052        | .01       | Stainless steel |
|             |           | .33             |



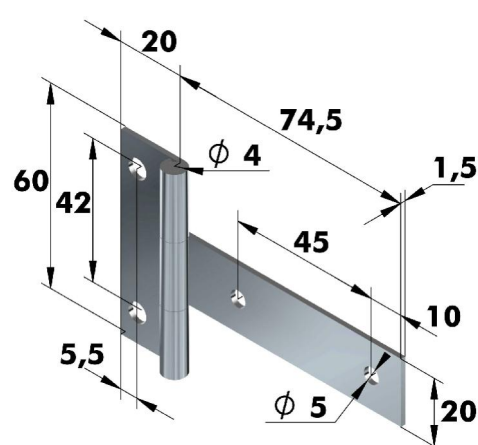
**Art. no.: 6053** (perforated and countersunk)  
with fixed pin

| Article no. |           |           | Dimensions in mm |     |     |   |    |    |     |
|-------------|-----------|-----------|------------------|-----|-----|---|----|----|-----|
| Series      | Execution | Material  | A                | B   | C Ø | D | E  | F  | S   |
|             |           | Raw Steel |                  |     |     |   |    |    |     |
| 6053        | .01       | .00       | 30               | 130 | 5,2 | 6 | 34 | 33 | 1,5 |
| 6053        | .02       | .00       | 40               | 190 | 5,2 | 8 | 56 | 37 | 2   |



**Art. no.: 6106** (perforated)  
with extractable pin

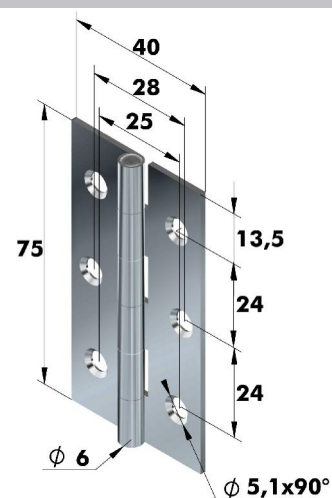
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Polished        |
| 6106        | Stainless steel |
|             | .30             |



## Hinges

**Art. no.: 6109** (perforated and countersunk)  
with riveted pin

| Article no. |                 | Dimension in mm |
|-------------|-----------------|-----------------|
| Series      | Material        | Pin Ø           |
|             | Raw             |                 |
|             | Stainless steel |                 |
| 6109        | .30             | 3               |



**Art.no. 6540** (drilled and countersunk)

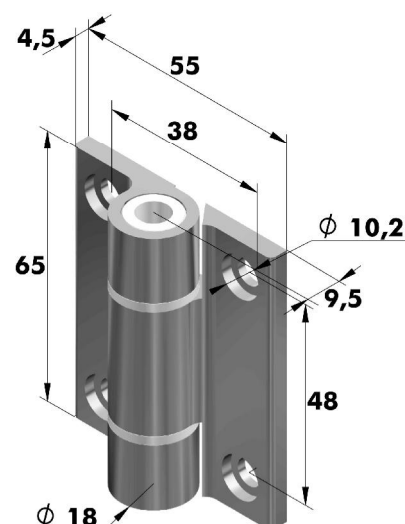
Also available as:

Spring hinge see chapter „spring hinges“

Torque- and detent hinge

See chapter „torque and detent hinges“

| Article no. |               |                   |       |
|-------------|---------------|-------------------|-------|
| Series      | Execution     | Material          |       |
|             |               | Aluminium 6060 T5 |       |
|             |               | Silver            | Black |
| 6540        | .01 no plug   | .70               | .77   |
| 6540        | .02 with plug | .70               | .77   |



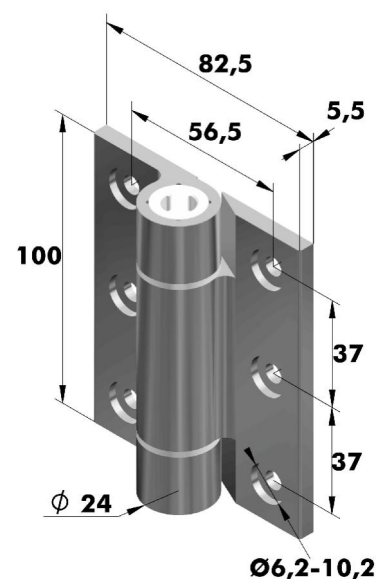
**Art.no. 6876** (drilled and countersunk)

Also available:

Spring hinge see chapter „spring hinges“

Torque hinges see chapter „torque and detent hinges“

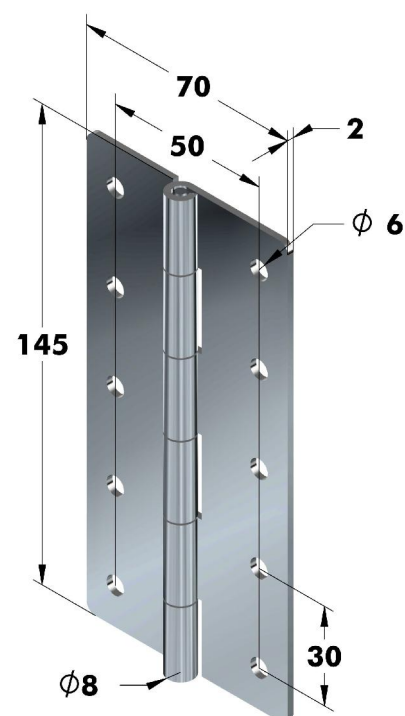
| Article no. |           |                   |       |
|-------------|-----------|-------------------|-------|
| Series      | Execution | Material          |       |
|             |           | Aluminium 6060 T5 |       |
|             |           | Silver            | Black |
| 6876        | .08       | .71               | -     |
| 6876        | .09       | -                 | .77   |



## Hinges

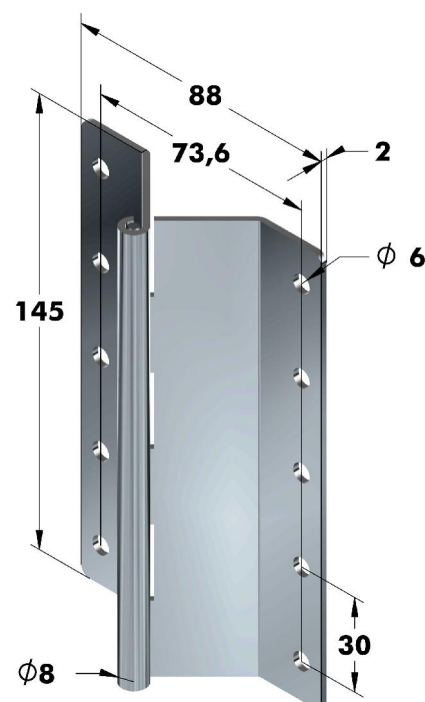
Art.no.: 196.5.F37.001.001 (perforated)  
with fixed steel pin

| Article no.       |             |
|-------------------|-------------|
| Series            | Material    |
|                   | Zinc plated |
|                   | Steel       |
| 196.5.F37.001.001 | .00         |



Art.no.: 196.5.F37.001.002 (perforated)  
with fixed steel pin

| Article no.       |             |
|-------------------|-------------|
| Series            | Material    |
|                   | Zinc plated |
|                   | Steel       |
| 196.5.F37.001.002 | .00         |

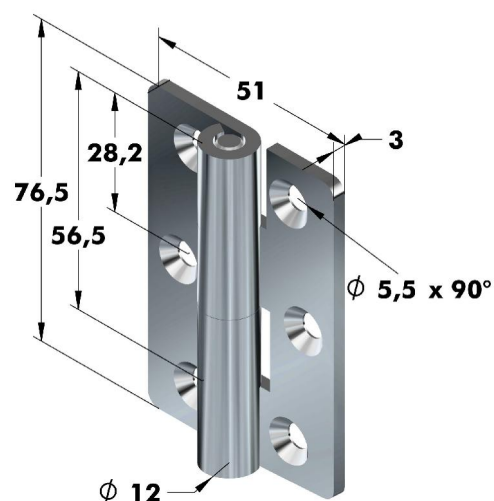




## Hinges

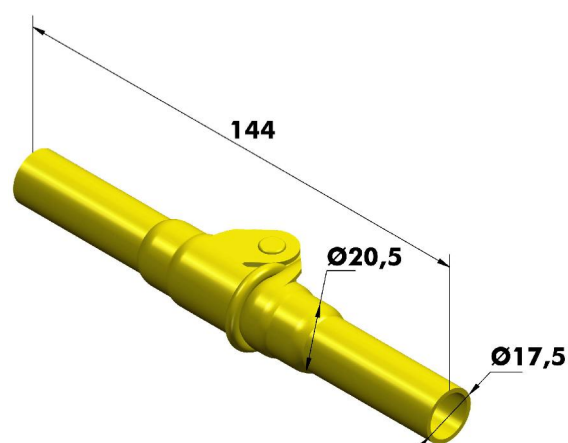
**Art.no.:99.7651** (perforated and countersunk)  
with fixed pin

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 99.7651     | .30             |



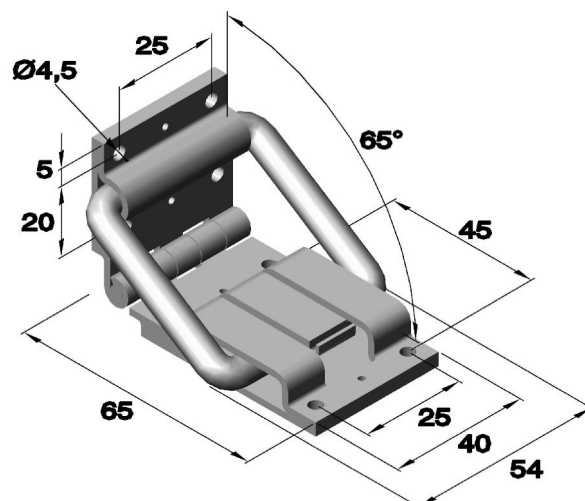
**Art. no.: 6058** tubular hinge  
with fixed pin

| Article no. |           |                                 |
|-------------|-----------|---------------------------------|
| Series      | Execution | Material                        |
|             |           | Zinc plated<br>yellow chromated |
|             |           | Steel                           |
| 6058        | .03       | .08                             |



**Art. no.: 6058** Stop hinge with locking by 105°  
with fixed pin (Ø5)

| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
|             |           | Stainless steel |
| 6058        | .04       | .30             |

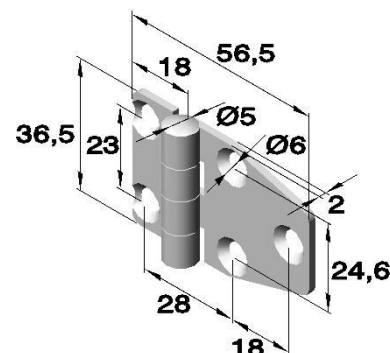


## Hinges

Art.no.:6179 (perforated and countersunk)

with riveted pin

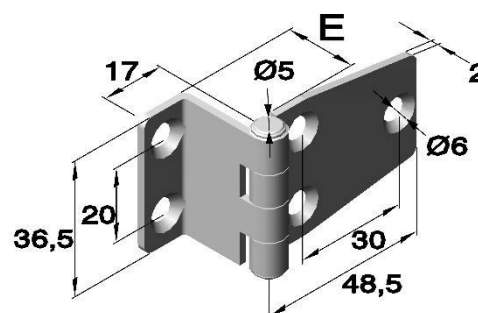
| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Polished        |
| 6179        | .01       | Stainless steel |
|             |           | .33             |



Art.no.:6180 (perforated and countersunk)

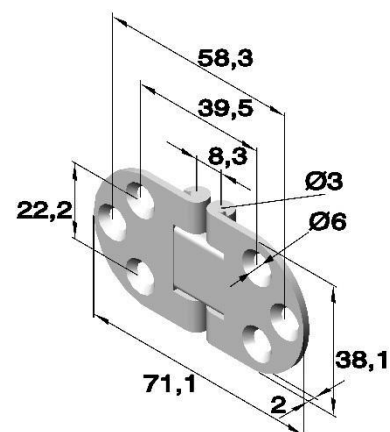
with riveted pin

| Article no. |           |                 | Dimensions in mm |
|-------------|-----------|-----------------|------------------|
| Series      | Execution | Material        | E                |
|             |           | Polished        |                  |
| 6180        | .01       | Stainless steel | .33              |
| 6180        | .02       | .33             | 10               |
| 6180        | .03       | .33             | 15,9             |
| 6180        | .03       | .33             | 19,2             |



Art.no.:6181 (perforated and countersunk)

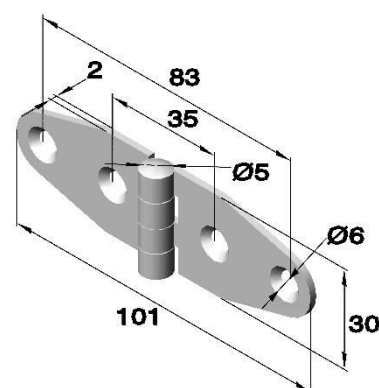
| Article no. |  |                 |
|-------------|--|-----------------|
| Series      |  | Material        |
|             |  | Polished        |
| 6181        |  | Stainless steel |
|             |  | .33             |



Art.no.:6182 (perforated and countersunk)

with riveted pin

| Article no. |  |                 |
|-------------|--|-----------------|
| Series      |  | Material        |
|             |  | Polished        |
| 6182        |  | Stainless steel |
|             |  | .33             |

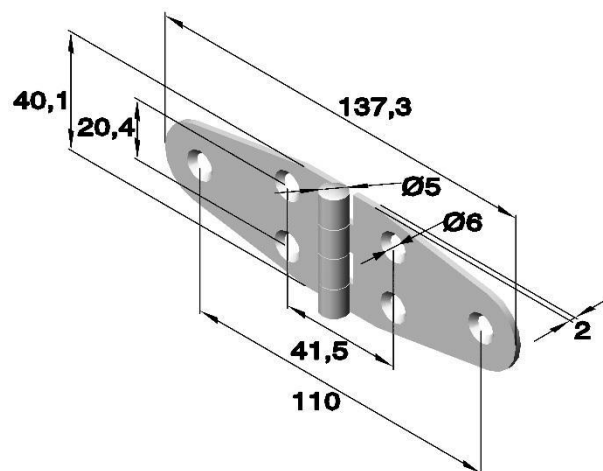


## Hinges

Art.no.: **6183** (perforated and countersunk)

with riveted pin

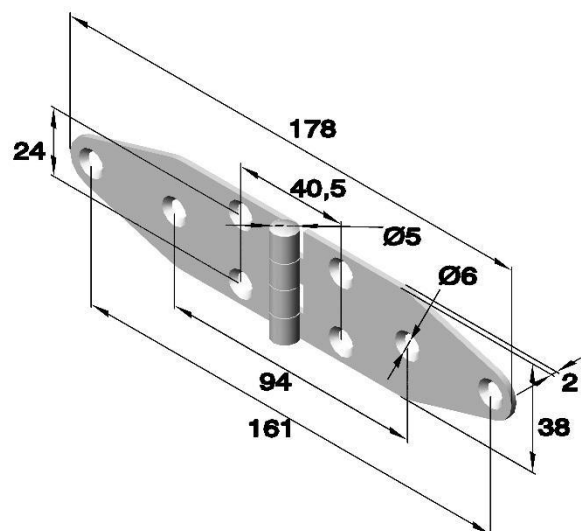
| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Polished        |
| 6183        | .01       | Stainless steel |
|             |           | .33             |



Art.no.: **6184** (perforated and countersunk)

with riveted pin

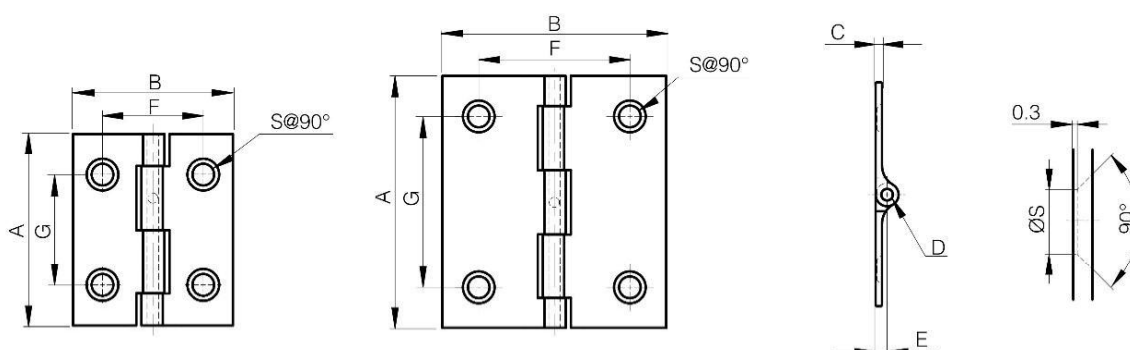
| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Polished        |
| 6184        | .01       | Stainless steel |
|             |           | .33             |



## Hinges

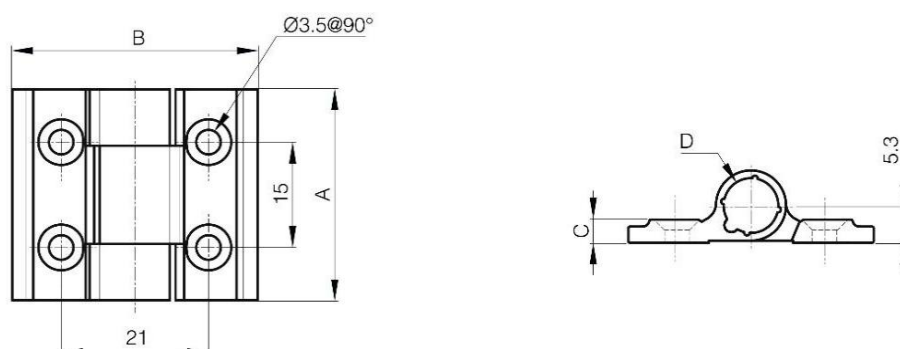
Art.no.: 6215 (perforated and countersunk)

| Article no. |           |                               | Dimensions in mm |       |     |      |      |    |    |     |
|-------------|-----------|-------------------------------|------------------|-------|-----|------|------|----|----|-----|
| Series      | Execution | Material                      | A                | B     | C   | D    | E    | F  | G  | S   |
|             |           | Aluminium 6082 T5<br>Anodized |                  |       |     |      |      |    |    |     |
| 6215        | .01       | .71                           | 38               | 31.75 | 1.3 | 2.29 | 2.29 | 20 | 22 | 4.3 |
| 6215        | .02       | .71                           | 50               | 44.45 | 1.3 | 2.29 | 2.29 | 30 | 34 | 4.3 |
| 6215        | .03       | .71                           | 63.5             | 63.5  | 1.3 | 2.29 | 2.29 | 40 | 40 | 6   |



Art.no.: 6216 (perforated and countersunk)

| Article no. |           |                               |                  | Dimensions in mm |    |     |   |
|-------------|-----------|-------------------------------|------------------|------------------|----|-----|---|
| Series      | Execution | Material                      |                  | A                | B  | C   | D |
|             |           | Aluminium 6060 T5<br>Anodized | Colourless Black |                  |    |     |   |
| 6216        | .01       | .71                           | .77              | 30               | 35 | 3.3 | 8 |



## Hinges

### Art. Nr.: 150. MH-30

(perforated and countersunk)

Double pivot hinge allows 180° opening

150.MH-30CR



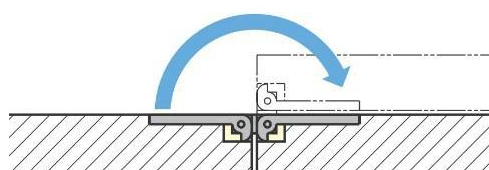
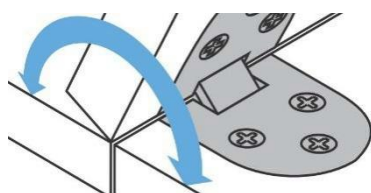
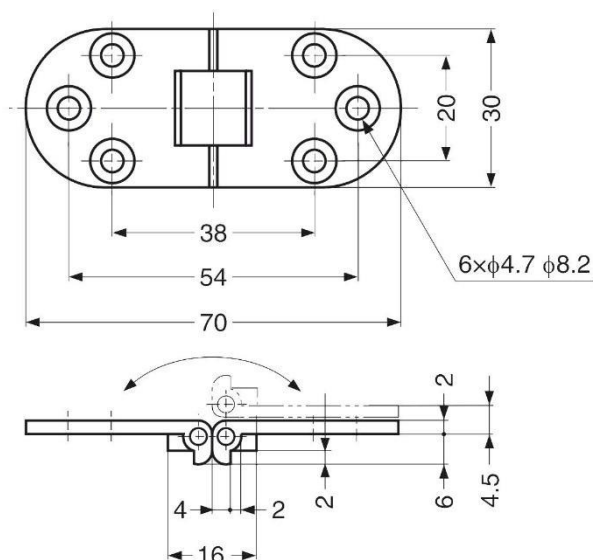
150.MH-30M



150.MH-30WB



| Article no. |                           |                | Door width | Door height | Door Thickness | Load Capacity N / Pair | Weight (g) |
|-------------|---------------------------|----------------|------------|-------------|----------------|------------------------|------------|
| Series      | Execution                 | Material Brass |            |             |                |                        |            |
| 150. MH-30  | M (Polished)              | .22            | Max. 450   | Max. 700    | Max. 21        | 29                     | 45         |
| 150. MH-30  | WB (White Bronze plating) | .25            |            |             |                |                        |            |
| 150. MH-30  | CR (Chrom)                | .23            |            |             |                |                        |            |



## Hinges

Art. Nr.: 150. MH-40 (perforated and countersunk)

Double pivot hinge allows 180° opening

150.MH-40CR



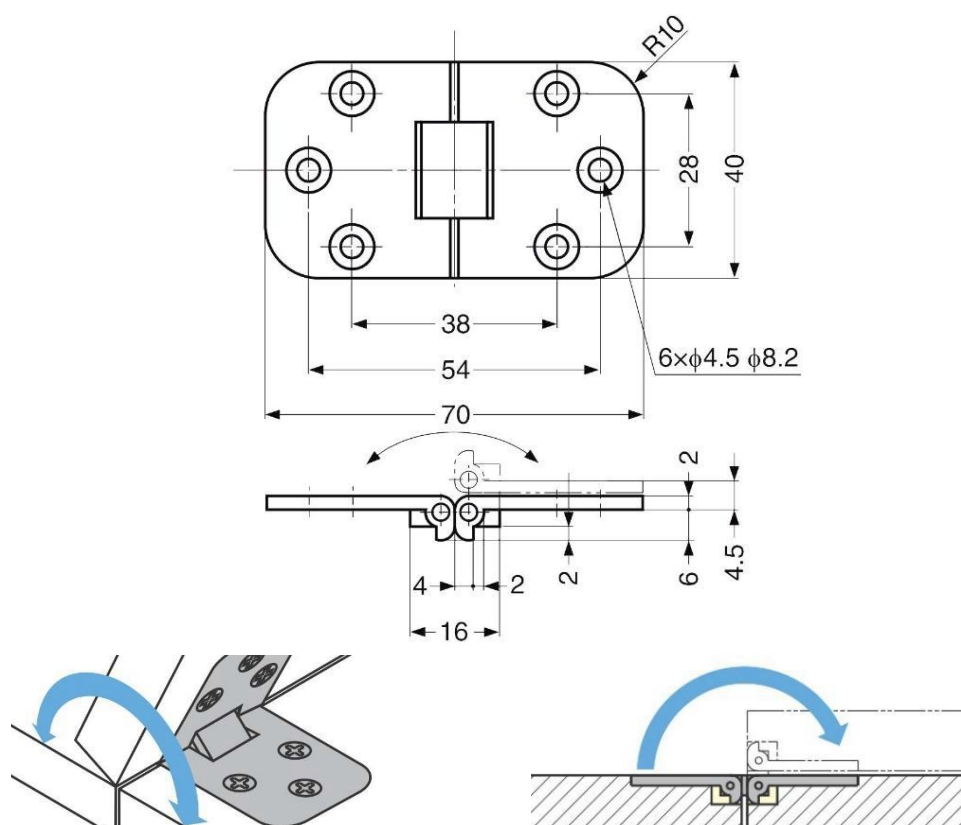
150.MH-40M



150.MH-40WB



| Article no. |                           |                | Door width | Door height | Door Thickness | Load capacity N / Pair | Weight (g) |
|-------------|---------------------------|----------------|------------|-------------|----------------|------------------------|------------|
| Series      | Execution                 | Material Brass |            |             |                |                        |            |
| 150. MH-40  | M (Polished)              | .22            | Max. 450   | Max. 700    | Max. 21        | 29                     | 64         |
| 150. MH-40  | WB (White Bronze plating) | .25            |            |             |                |                        |            |
| 150. MH-40  | CR (Chrom)                | .23            |            |             |                |                        |            |





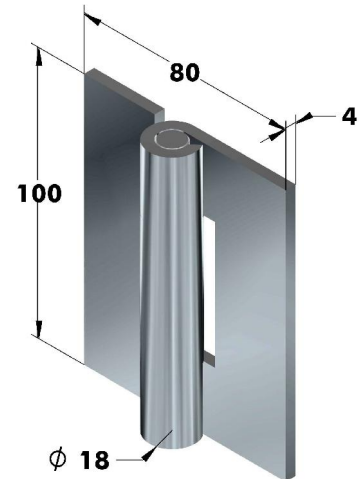


## heavy hinges

### Art.No.:99.10080

with fixed stainless steel pin

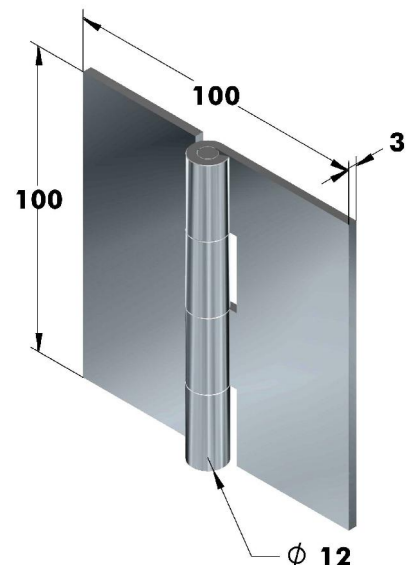
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 99.10080    | .30             |



### Art.No.:99.1001003

with fixed stainless steel pin

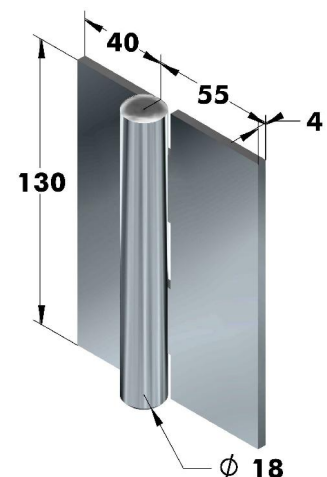
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
|             | Stainless steel |
| 99.1001003  | .30             |



### Art.No.:6054

with riveted stainless steel pin

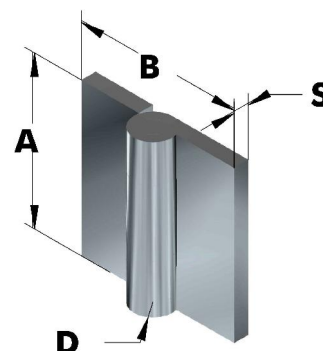
| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Raw      |
|             |           | Steel    |
| 6054        | .03       | .00      |



## heavy hinges

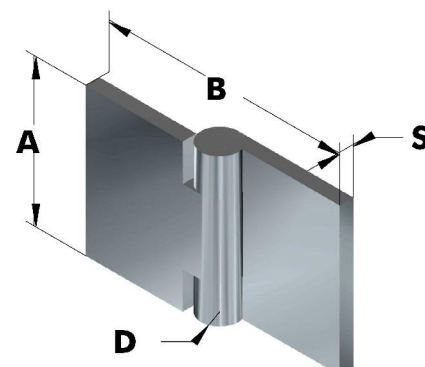
### Art.No.:6059 Profile steel hinges with riveted pin

| Article no. |           |          |                 | Dimensions in mm |     |    |   |   |       |
|-------------|-----------|----------|-----------------|------------------|-----|----|---|---|-------|
| Series      | Execution | Material |                 | A                | B   | D  | E | S | Pin Ø |
|             |           | Raw      | Raw             |                  |     |    |   |   |       |
|             |           | Steel    | Stainless steel |                  |     |    |   |   |       |
| 6059        | .01       | .00      | -               | 32               | 32  | 8  | 4 | 3 | 4     |
| 6059        | .02       | .00      | -               | 32               | 50  | 8  | 4 | 3 | 4     |
| 6059        | .03       | .00      | .30             | 50               | 50  | 8  | 4 | 3 | 4     |
| 6059        | .04       | .00      | -               | 50               | 80  | 8  | 4 | 3 | 4     |
| 6059        | .05       | .00      | -               | 50               | 50  | 12 | 6 | 5 | 6     |
| 6059        | .06       | .00      | .30             | 50               | 80  | 12 | 6 | 5 | 6     |
| 6059        | .07       | .00      | -               | 50               | 100 | 8  | 4 | 3 | 4     |



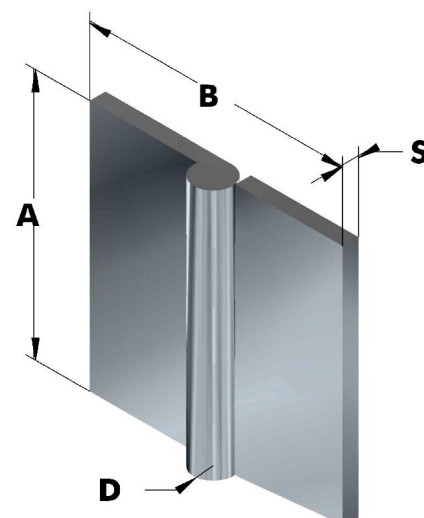
### Art.No.:6060 Profile steel hinges with riveted pin

| Article no. |           |          |                 | Dimensions in mm |    |    |   |   |       |
|-------------|-----------|----------|-----------------|------------------|----|----|---|---|-------|
| Series      | Execution | Material |                 | A                | B  | D  | E | S | Pin Ø |
|             |           | Raw      | Raw             |                  |    |    |   |   |       |
|             |           | Steel    | Stainless steel |                  |    |    |   |   |       |
| 6060        | .02       | .00      | -               | 32               | 50 | 8  | 4 | 3 | 4     |
| 6060        | .03       | .00      | .30             | 50               | 50 | 8  | 4 | 3 | 4     |
| 6060        | .04       | -        | .30             | 50               | 80 | 8  | 4 | 3 | 4     |
| 6060        | .05       | .00      | -               | 50               | 50 | 12 | 6 | 5 | 6     |
| 6060        | .06       | .00      | -               | 50               | 80 | 12 | 6 | 5 | 6     |



### Art.No.:6061 Profile steel hinges with riveted pin

| Article no. |           |          |                 | Dimensions in mm |     |    |    |   |       |
|-------------|-----------|----------|-----------------|------------------|-----|----|----|---|-------|
| Series      | Execution | Material |                 | A                | B   | D  | E  | S | Pin Ø |
|             |           | Raw      | Raw             |                  |     |    |    |   |       |
|             |           | Steel    | Stainless steel |                  |     |    |    |   |       |
| 6061        | .01       | .00      | .30             | 80               | 80  | 12 | 6  | 5 | 6     |
| 6061        | .02       | .00      | -               | 80               | 130 | 12 | 6  | 5 | 6     |
| 6061        | .03       | .00      | -               | 125              | 80  | 12 | 6  | 5 | 6     |
| 6061        | .04       | .00      | -               | 80               | 80  | 20 | 10 | 8 | 10    |
| 6061        | .05       | .00      | -               | 80               | 130 | 20 | 10 | 8 | 10    |
| 6061        | .06       | .00      | -               | 125              | 130 | 20 | 10 | 8 | 10    |
| 6061        | .08       | .00      | -               | 160              | 130 | 20 | 10 | 8 | 10    |
| 6061        | .09       | .00      | -               | 200              | 130 | 20 | 10 | 8 | 10    |

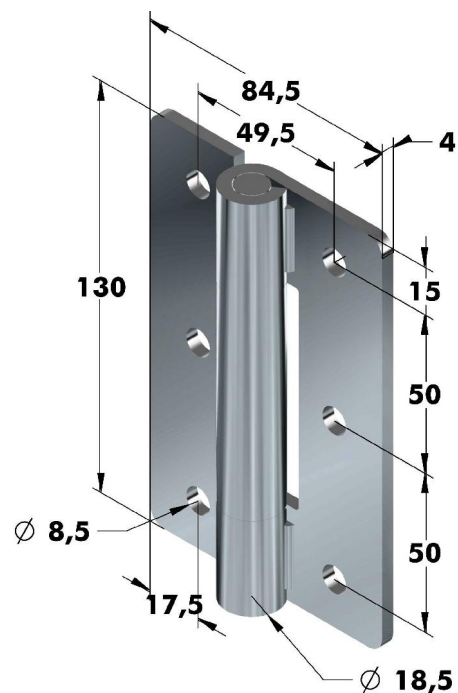


## heavy hinges

Art.No.: **99.2453** (perforated)

Knuckle and pin welded.

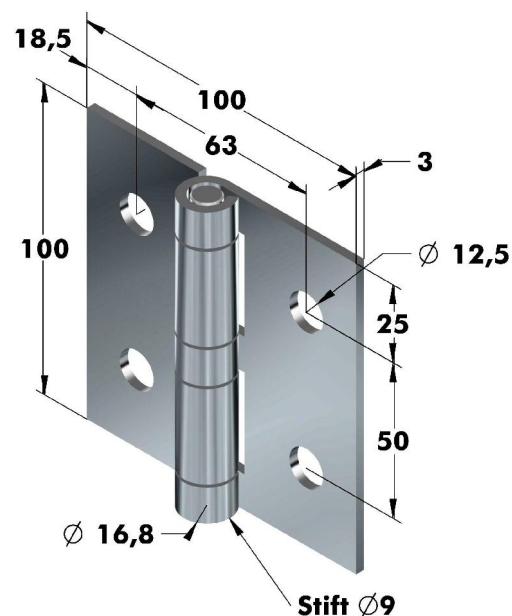
| Article no. |            |
|-------------|------------|
| Series      | Material   |
|             | Galvanized |
|             | Steel      |
| 99.2453     | .04        |



Art.No.: **2003278**

Knuckle and pin welded.

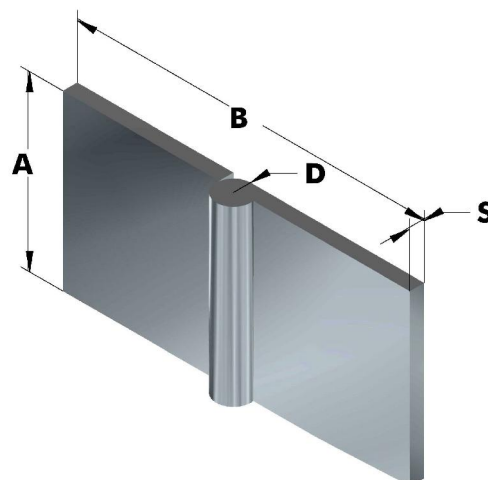
| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Polished        |
|             | Stainless steel |
| 2003278     |                 |



## heavy hinges

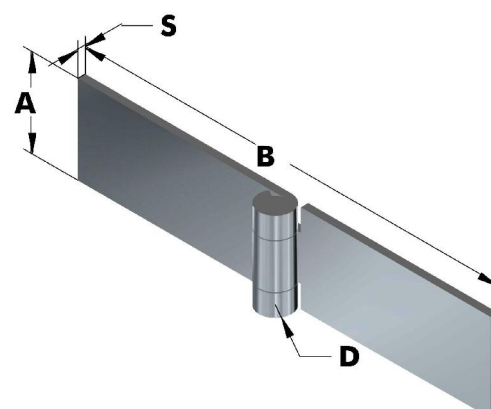
**Art.No.:6024** Profile steel hinges  
with extractable brass pin

| Article no. |           |                 | Dimensions in mm |     |    |   |       |
|-------------|-----------|-----------------|------------------|-----|----|---|-------|
| Series      | Execution | Material        | A                | B   | D  | S | Pin Ø |
|             |           | Raw             |                  |     |    |   |       |
| 6024        | .01       | Stainless steel | 60               | 120 | 12 | 5 | 6     |



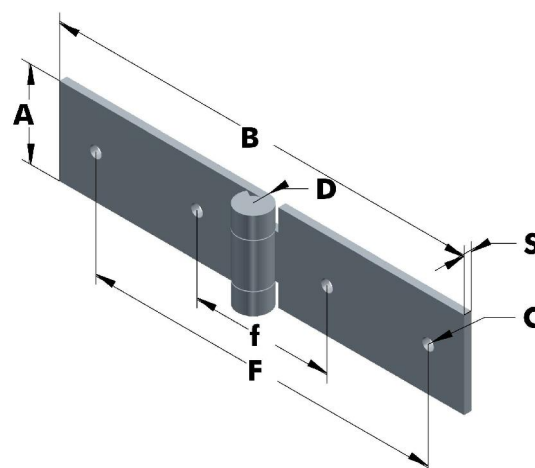
**Art.No.:6012**  
with fixed pin, drills on enquiry

| Article no. |           |          | Dimensions in mm |     |    |     |       |
|-------------|-----------|----------|------------------|-----|----|-----|-------|
| Series      | Execution | Material | A                | B   | D  | S   | Pin Ø |
|             |           | Raw      |                  |     |    |     |       |
| 6012        | .01       | Steel    | 30               | 140 | 11 | 2,5 | 6     |
| 6012        | .03       | Steel    | 30               | 190 | 12 | 3   | 6     |



**Art.No.:6014** (drilled and countersunk)  
with fixed pin.

| Article no. |           |                  | Dimensions in mm |     |     |    |     |    |     |       |
|-------------|-----------|------------------|------------------|-----|-----|----|-----|----|-----|-------|
| Series      | Execution | Material         | A                | B   | C Ø | D  | F   | f  | S   | Pin Ø |
|             |           | Galvanized Steel |                  |     |     |    |     |    |     |       |
| 6014        | .01       | Steel            | 30               | 140 | 4   | 11 | 115 | 45 | 2,5 | 6     |

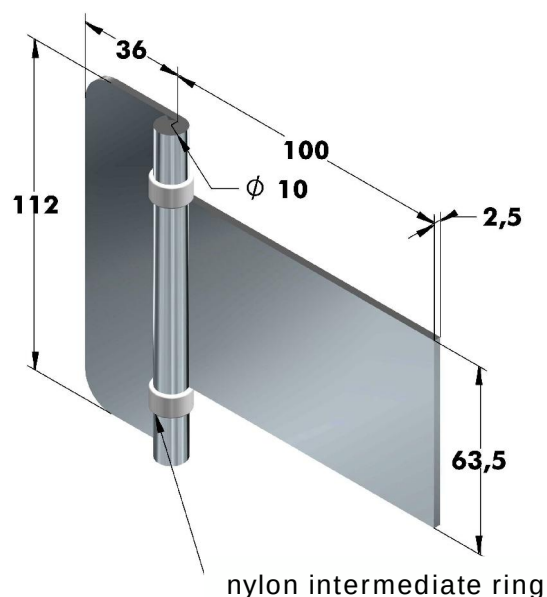


## heavy hinges

### Art.No.:6050

with extractable pin and nylon intermediate ring

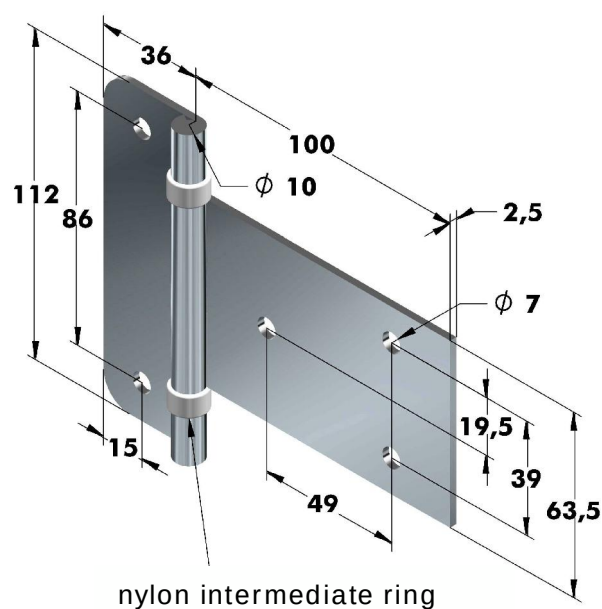
| Article no. |           |          |                 |
|-------------|-----------|----------|-----------------|
| Series      | Execution | Material |                 |
|             |           | Raw      |                 |
|             |           | Steel    | Stainless steel |
| 6050        | .01       | .00      | .30             |



### Art.No.:6050 (perforated)

with extractable pin and nylon intermediate ring

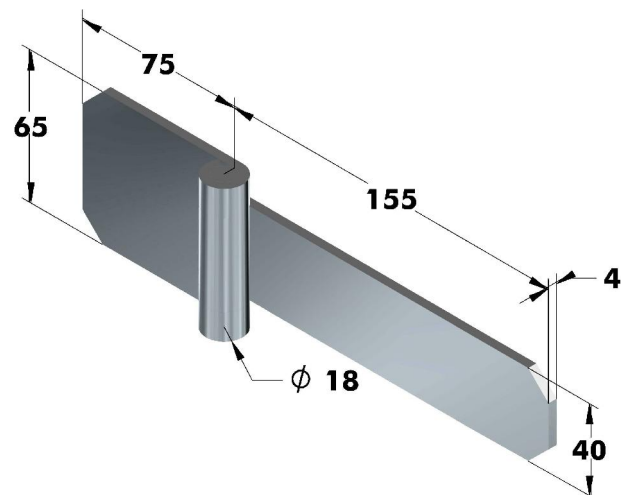
| Article no. |           |                 |  |
|-------------|-----------|-----------------|--|
| Series      | Execution | Material        |  |
|             |           | Raw             |  |
|             |           | Stainless steel |  |
| 6050        | .02       | .30             |  |



## heavy hinges

Art.No.:6054

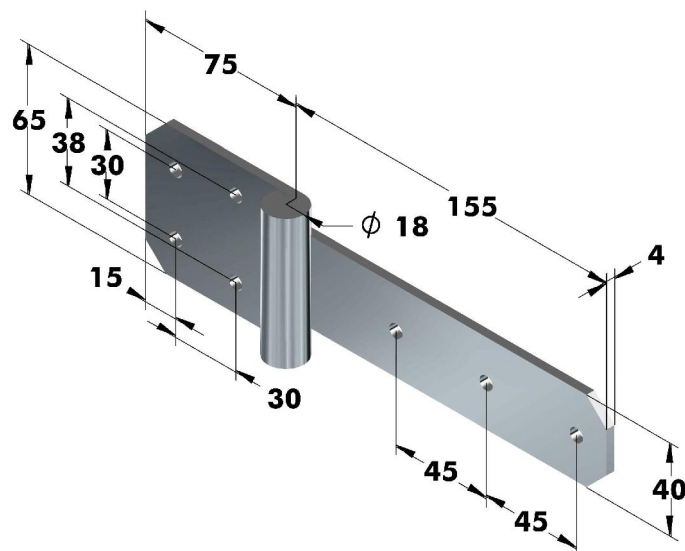
with fixed pin.



| Article no. |           |          |     |
|-------------|-----------|----------|-----|
| Series      | Execution | Material |     |
|             |           | Polished | Raw |
| 6054        | .01       | .33      | -   |
| 6054        | .01       | -        | .00 |

Art.No.:6054

with fixed pin., perforated



| Article no. |           |          |                 |
|-------------|-----------|----------|-----------------|
| Series      | Execution | Material |                 |
|             |           | Polished | Stainless steel |
| 6054        | .02       | .33      |                 |

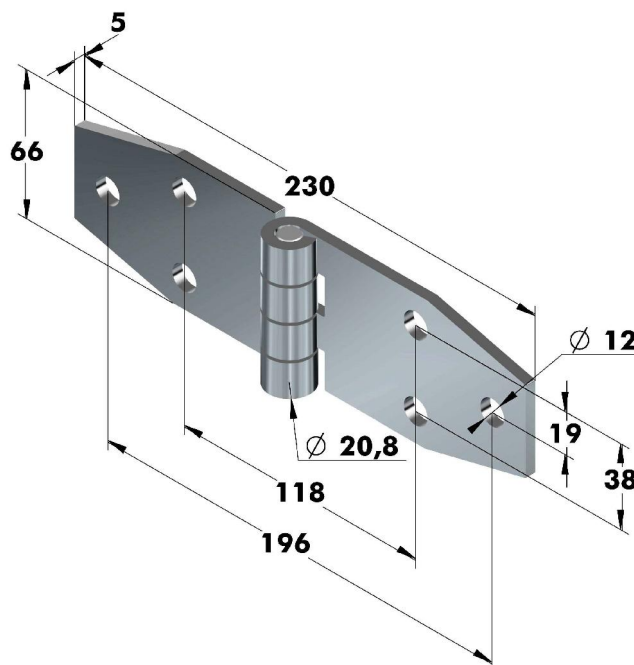


## heavy hinges

Art.No.: **6158** (perforated)  
with fixed pin. (10mm)

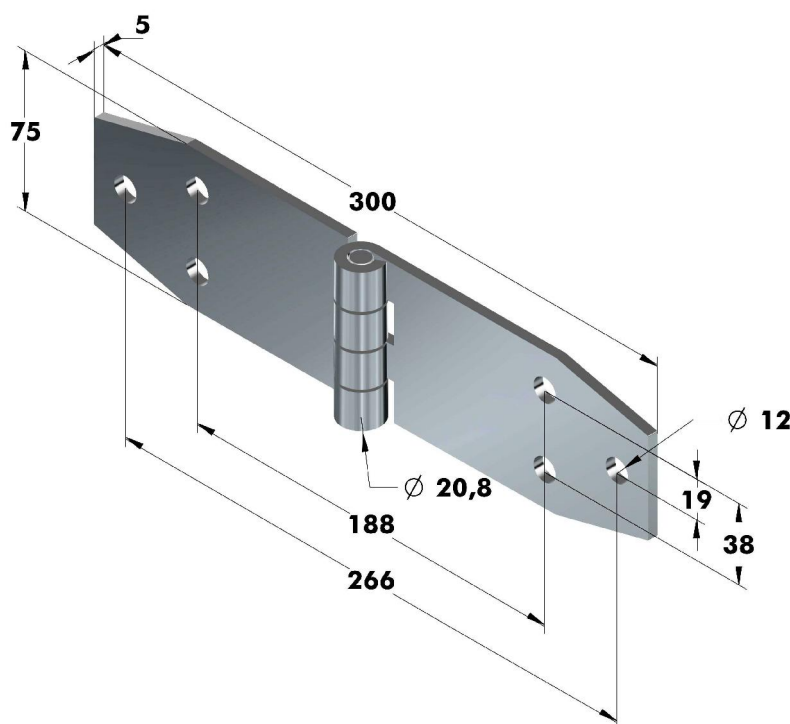
Stainless steel (1.4301) on request

| Article no. |           |                  |                          |
|-------------|-----------|------------------|--------------------------|
| Series      | Execution | Material         |                          |
|             |           | Galvanized Steel | Polished Stainless steel |
| 6158        | .01       | .04              | .33                      |



Art.No.: **99.12637** (perforated)  
with fixed pin. (10mm)

| Article no. |  |                  |                          |
|-------------|--|------------------|--------------------------|
| Series      |  | Material         |                          |
|             |  | Galvanized Steel | Polished Stainless steel |
| 99.12637    |  | .04              | .33                      |

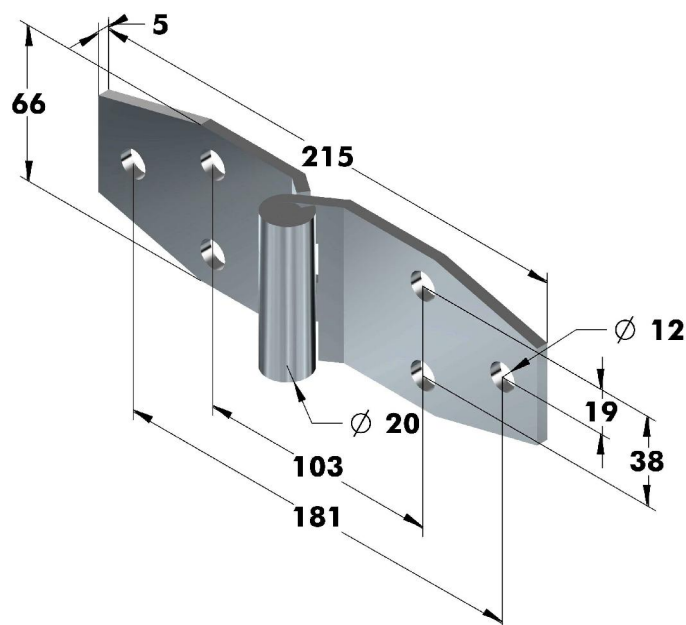


## heavy hinges

Art.No.: **6158** (perforated)  
with fixed pin. (10mm)

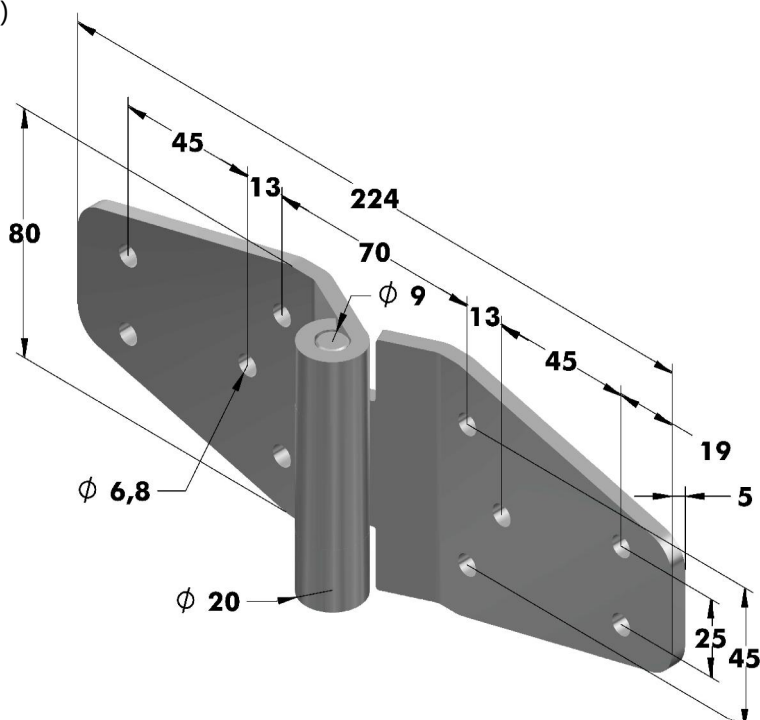
Stainless steel(1.4301) on request

| Article no. |           |            |                 |
|-------------|-----------|------------|-----------------|
| Series      | Execution | Material   |                 |
|             |           | Galvanized | Polished        |
|             |           | Steel      | Stainless steel |
| 6158        | .02       | .04        | .33             |



Art.No.: **99.40800B004** (perforated)  
with rammed Stainless steel pin

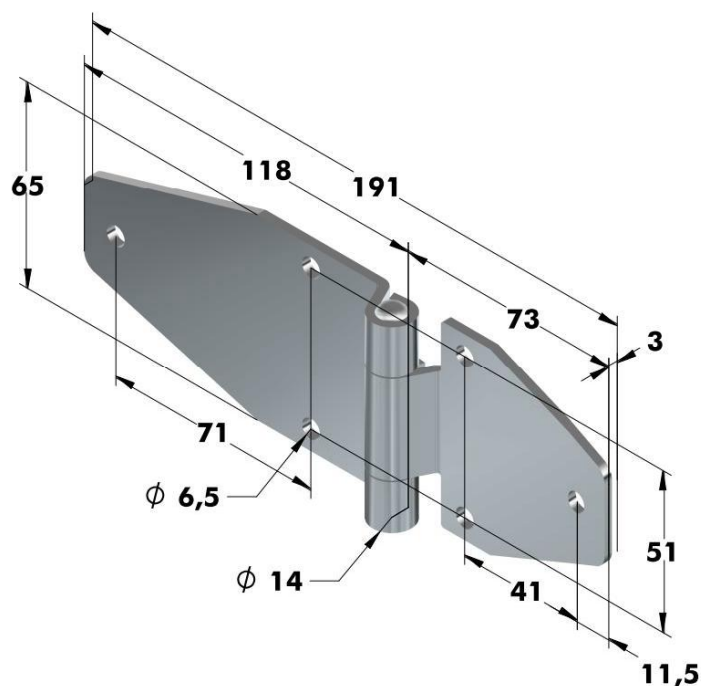
| Article no.  |            |
|--------------|------------|
| Series       | Material   |
|              | Galvanized |
|              | Steel      |
| 99.40800B004 | .04/C      |



## heavy hinges

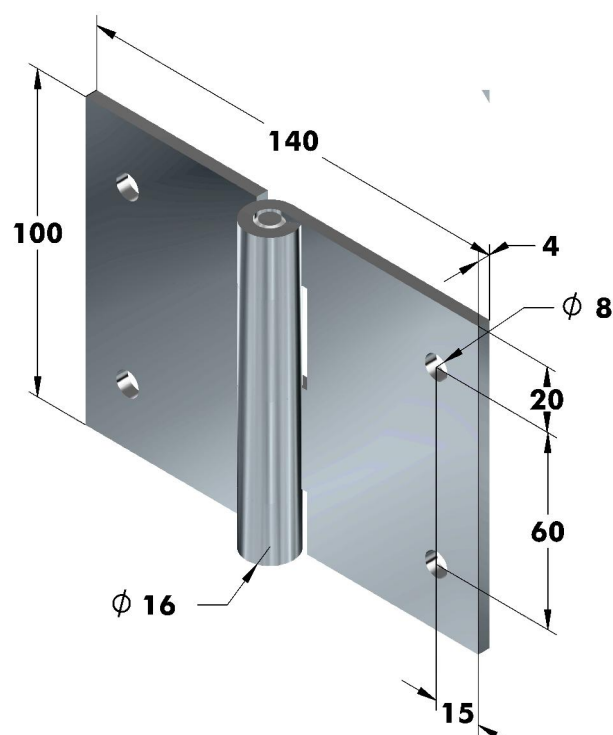
Art.No.: 196.3.ST35 (perforated)

| Article no.    |            |                 |
|----------------|------------|-----------------|
| Series         | Material   |                 |
|                | Galvanized | Polished        |
|                | Steel      | Stainless steel |
| 196.3.ST35.001 | .04        | .30             |



Art.No.: 99.1001404.00 (perforated)  
with fixed steel pin

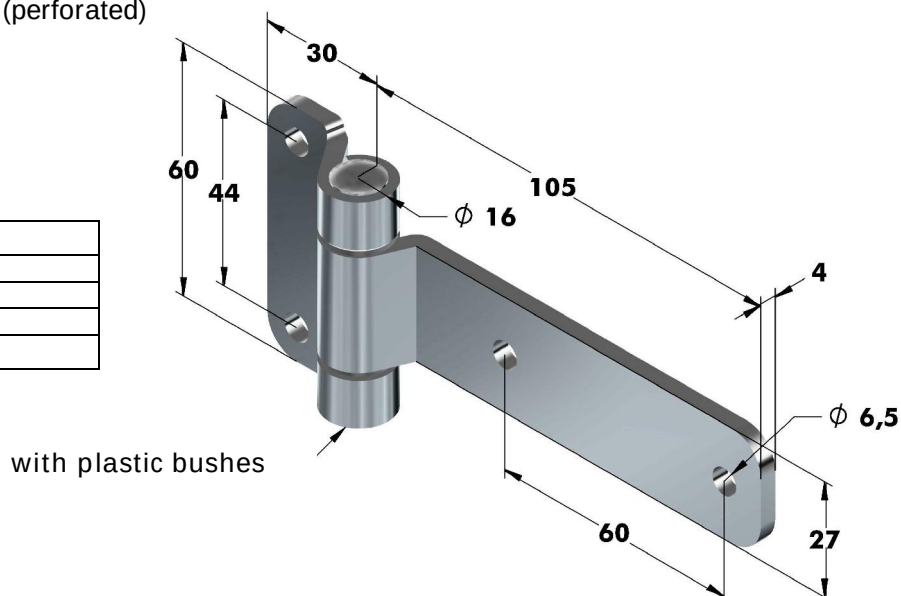
| Article no. |          |       |
|-------------|----------|-------|
| Series      | Material |       |
|             | Raw      | Steel |
|             | .00      |       |
| 99.1001404  | .00      |       |



## heavy hinges

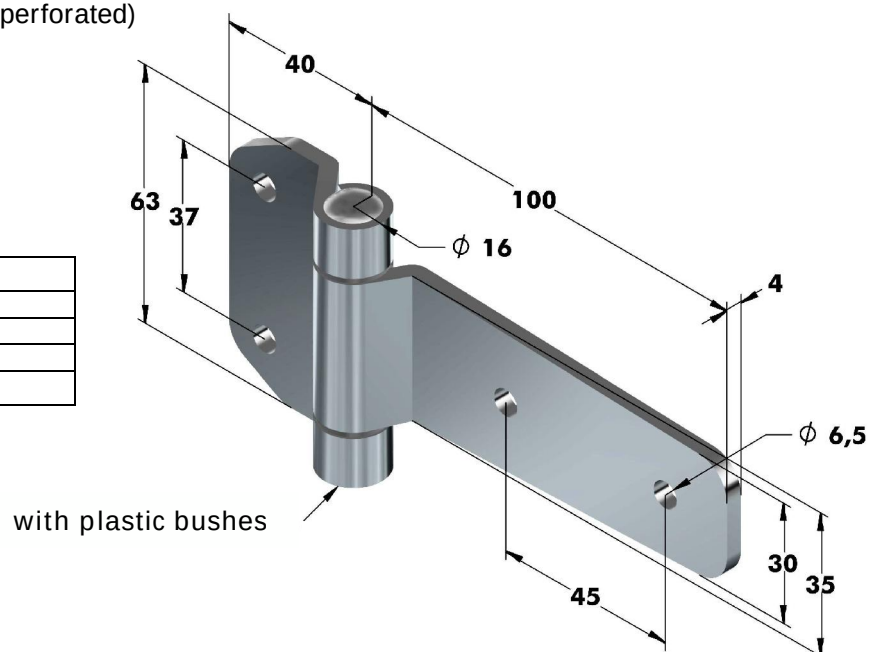
Art.No.: 196.3.ST56.001 (perforated)

| Article no.    |          |
|----------------|----------|
| Series         | Material |
|                | Black    |
|                | Steel    |
| 196.3.ST56.001 | .07      |



Art.No.: 196.3.ST56.100. (perforated)

| Article no.    |          |
|----------------|----------|
| Series         | Material |
|                | Black    |
|                | Steel    |
| 196.3.ST56.100 | .04      |

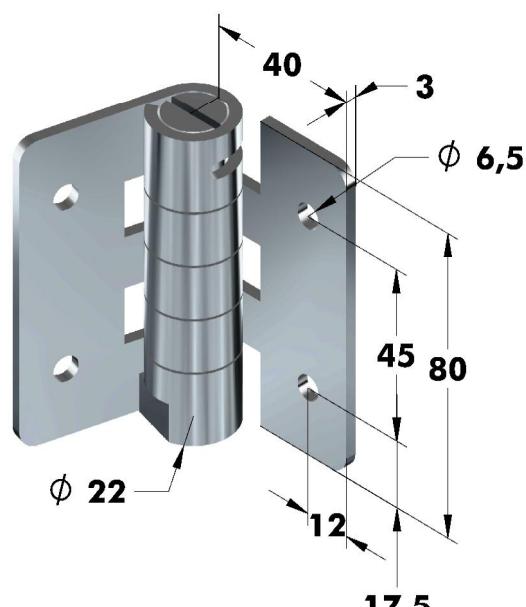


## heavy hinges

Art.No. 6877.01.30 (perforated)

Soft-Closing Hinge  
Opens and closes damped  
Function until 115° guaranteed  
Torque per pair: 2,2 to 3,0 N.m

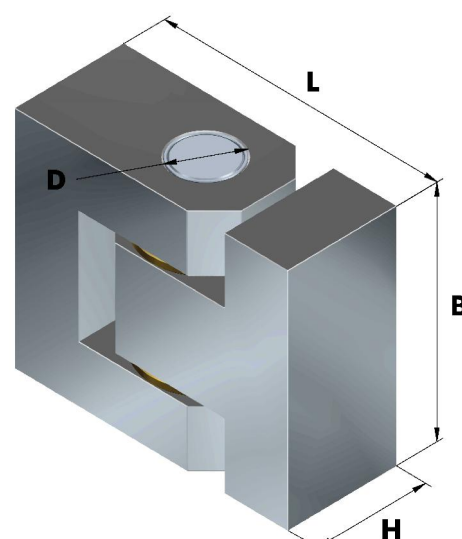
| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
| 6877        | .01       | Stainless steel |
|             |           | .30             |



Welded joints „AG “ with fixed steel pin

FES on self-lubricating bushes and with brass intermediate ring.

| Article no. |     |           |          |                 | Dimensions in mm |    |    |                            |
|-------------|-----|-----------|----------|-----------------|------------------|----|----|----------------------------|
| Series      | L   | Execution | Material |                 | B                | H  | D  | Load capacity<br>ca. in kg |
|             |     |           | Raw      |                 |                  |    |    |                            |
|             |     |           | Steel    | Stainless steel |                  |    |    |                            |
| AG          | 60  | FES       | .00      | .30             | 50               | 20 | 10 | 1000                       |
| AG          | 70  | FES       | .00      | .30             | 60               | 25 | 12 | 4000                       |
| AG          | 80  | FES       | .00      | .30             | 60               | 30 | 15 | 5000                       |
| AG          | 100 | FES       | .00      | .30             | 80               | 40 | 20 | 9000                       |
| AG          | 120 | FES       | .00      | .30             | 100              | 50 | 25 | 10000                      |
| AG          | 140 | FES       | .00      | .30             | 120              | 60 | 30 | 10000+                     |



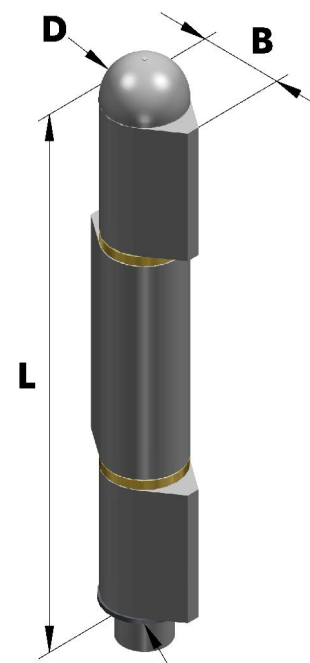
## heavy hinges

### Weld on hinge rolls „AB “ 3-part

**AES** with extractable steel pin and brass intermediate ring

**AMS** with extractable brass pin and brass intermediate ring

| Article no. |       |           |     | Dimensions in mm |    |      |       |                         |
|-------------|-------|-----------|-----|------------------|----|------|-------|-------------------------|
| Series      | L     | Execution |     | Material         | D  | B    | Pin Ø | Load capacity ca. in kg |
|             |       |           |     | Raw              |    |      |       |                         |
|             |       |           |     | Steel            |    |      |       |                         |
| AB          | 135/3 | AES       | AMS | .00              | 18 | 22,5 | 12    | 790                     |
| AB          | 150/3 | AES       | AMS | .00              | 20 | 25,5 | 13    | 960                     |
| AB          | 180/3 | AES       | AMS | .00              | 20 | 25,5 | 13    | 1300                    |
| AB          | 200/3 | AES       | AMS | .00              | 23 | 29   | 16    | 2000                    |



safety washer

### Weld on hinge rolls „AB “ 3-part

**AVS** with extractable stainless steel pin and brass intermediate ring

| Article no. |       |           |  | Dimensions in mm      |    |      |       |                         |
|-------------|-------|-----------|--|-----------------------|----|------|-------|-------------------------|
| Series      | L     | Execution |  | Material              | D  | B    | Pin Ø | Load capacity ca. in kg |
|             |       |           |  | Raw                   |    |      |       |                         |
|             |       |           |  | Stainless steel (V2A) |    |      |       |                         |
| AB          | 135/3 | AVS       |  | .30                   | 18 | 22,5 | 12    | 790                     |
| AB          | 150/3 | AVS       |  | .30                   | 20 | 25,5 | 13    | 960                     |
| AB          | 180/3 | AVS       |  | .30                   | 20 | 25,5 | 13    | 1300                    |



lubrication nipples

safety washer

### Weld on hinge rolls „ABN “ 3-part

**AMS** with extractable brass pin and brass intermediate ring

| Article no. |       |           |  | Dimensions in mm |    |      |       |                         |
|-------------|-------|-----------|--|------------------|----|------|-------|-------------------------|
| Series      | L     | Execution |  | Material         | D  | B    | Pin Ø | Load capacity ca. in kg |
|             |       |           |  | Raw              |    |      |       |                         |
|             |       |           |  | Steel            |    |      |       |                         |
| ABN         | 135/3 | AMS       |  | .00              | 18 | 22,5 | 12    | 790                     |
| ABN         | 150/3 | AMS       |  | .00              | 20 | 25,5 | 13    | 960                     |
| ABN         | 180/3 | AMS       |  | .00              | 20 | 25,5 | 13    | 1300                    |
| ABN         | 200/3 | AMS       |  | .00              | 23 | 29   | 16    | 2000                    |

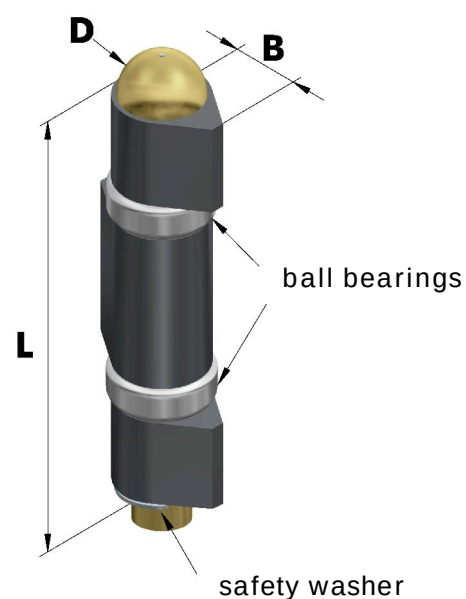


## heavy hinges

Weld on hinge rolls „AB “ 3-part with 2 ball bearings

AES with extractable steel pin and 2 ball bearings

AMS with extractable brass pin and 2 ball bearings



| Article no. |       |           |     |              | Dimensions in mm |      |       |       |
|-------------|-------|-----------|-----|--------------|------------------|------|-------|-------|
| Series      | L     | Execution |     | Material     | D                | B    | Pin Ø | ca.kg |
|             |       |           |     | Raw<br>Steel |                  |      |       |       |
| AB          | 90/3  | AES       | AMS | .00          | 20               | 25,5 | 12    | 900   |
| AB          | 110/3 | AES       | AMS | .00          | 23               | 29   | 13    | 1000  |

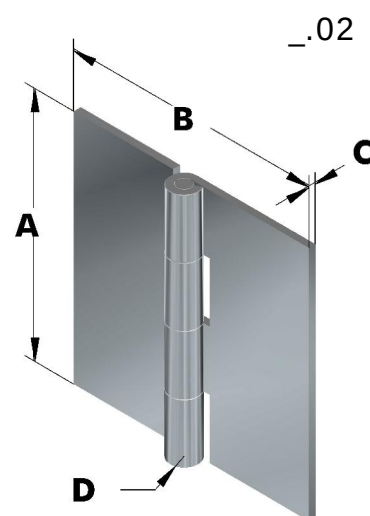
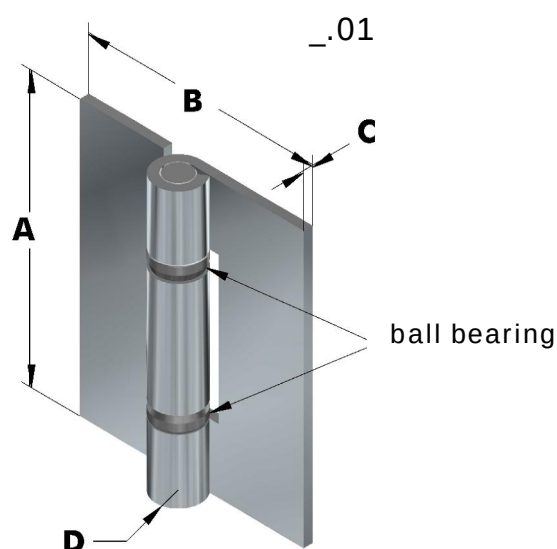
# heavy hinges

Hinge as required  
„with“ or „without“ ball bearing

Art.No.:99.

„with“ or „without“ ball bearing

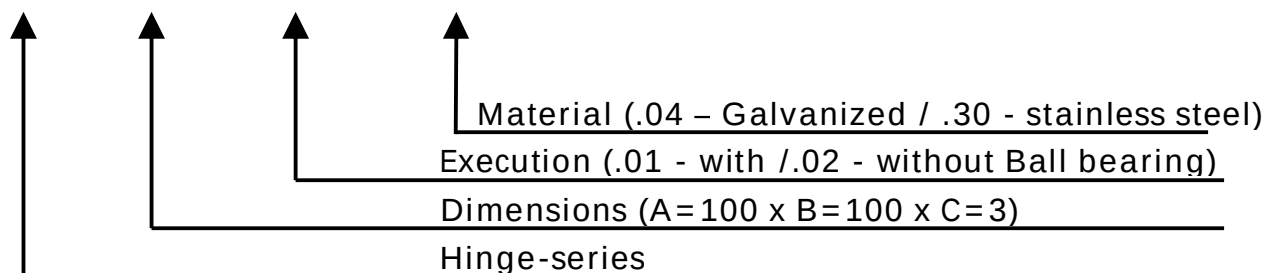
(as required perforated)



| Article no. |             |             |          |            |              |         |                 |                 |
|-------------|-------------|-------------|----------|------------|--------------|---------|-----------------|-----------------|
| Series      | A           | B           | C        | D          | Execution    |         | Material        |                 |
|             |             |             |          |            | Ball bearing |         | Raw             | Polished        |
|             |             |             |          |            | with         | without | Stainless steel | Stainless steel |
| 99.         | from 60-300 | from 60-150 | from 3-5 | from 12-20 | .01          | .02     | .30             | .33             |

Ordering example:

Art.No: 99. 1001003 .01 / .02 .04 / .30



## heavy hinges

### Art. no.: 150. HG-KM (perforated)

Ultra thick „lift-off“ hinge for heavy doors.

Thrust bearing in movable part provides smooth movement.

Large doors, gate doors and other rotation mechanism  
of heavy objects



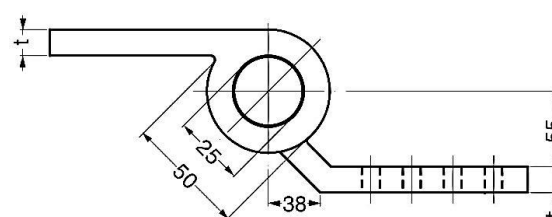
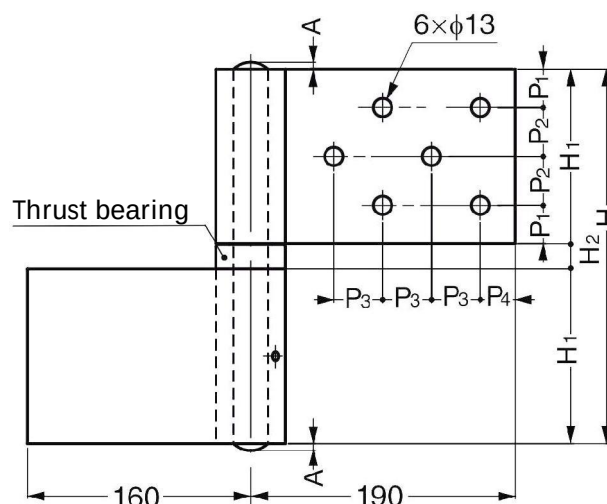
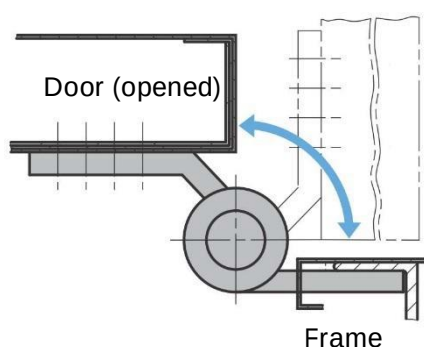
| Article no. |           |                          | H   | H 1 | H 2 | P 1  | P 2 | P 3 | P 4 | A  | t  | Load capacity<br>N / Pair |
|-------------|-----------|--------------------------|-----|-----|-----|------|-----|-----|-----|----|----|---------------------------|
| Series      | Execution | Material                 |     |     |     |      |     |     |     |    |    |                           |
|             |           | Satin<br>Stainless steel |     |     |     |      |     |     |     |    |    |                           |
| 150. HG-KM  | 12-268    | .32                      | 268 | 125 | 18  | 27.5 | 35  | 35  | 25  | 5  | 12 | 2940                      |
| 150. HG-KM  | 19-275    | .32                      | 275 |     | 25  |      |     | 30  |     | 10 | 19 | 4810                      |
| 150. ✱HG-KM | 20-250    | .32                      | 250 | 114 | 22  | 28   | 29  | 25  | 23  |    | 20 | 4610                      |

| Article no. |           |                          | Weight<br>(kg) |
|-------------|-----------|--------------------------|----------------|
| Series      | Execution | Material                 |                |
|             |           | Satin<br>Stainless steel |                |
| 150. HG-KM  | 12-268    | .32                      | 8.3            |
| 150. HG-KM  | 19-275    | .32                      | 19.8           |
| 150. ✱HG-KM | 20-250    | .32                      | 18.1           |

✱On request

[Installation]

Door (closed)



150.HG-KM19-275, 150.HG-KM20-250

## heavy hinges

Art. no.: 150. HG-KH (perforated)

Ultra thick „lift-off“ hinge for heavy doors.

Thrust bearing in movable part provides smooth movement.

Large doors, gate doors and other rotation mechanism  
of heavy objects

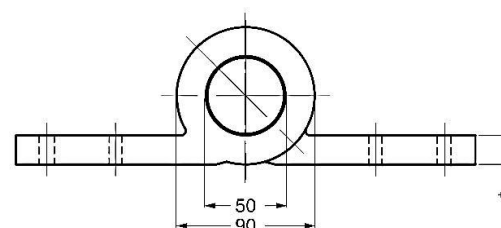
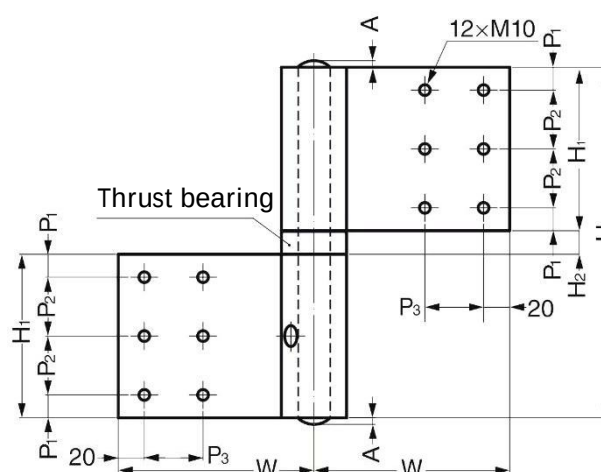
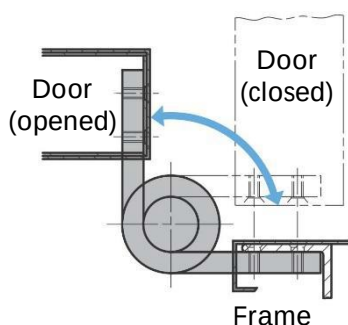


| Article no. |           |                          | H   | H 1 | H 2 | W   | P 1  | P 2 | P 3 | A  | t  | Load capacity<br>N / Paar |
|-------------|-----------|--------------------------|-----|-----|-----|-----|------|-----|-----|----|----|---------------------------|
| Series      | Execution | Material                 |     |     |     |     |      |     |     |    |    |                           |
|             |           | Satin<br>Stainless steel |     |     |     |     |      |     |     |    |    |                           |
| 150. HG-KH  | 12-268    | .32                      | 268 | 125 | 18  | 150 | 17.5 | 45  | 45  | 5  | 12 | 2940                      |
| 150. HG-KH  | 19-275    | .32                      | 275 |     | 25  |     |      |     |     | 10 | 19 | 4810                      |
| 150. ✱HG-KH | 20-250    | .32                      | 250 | 114 | 22  | 140 | 17   | 40  | 40  |    | 20 | 4610                      |

| Article no. |           |                          | Weight<br>(kg) |
|-------------|-----------|--------------------------|----------------|
| Series      | Execution | Material                 |                |
|             |           | Satin<br>Stainless steel |                |
| 150. HG-KH  | 12-268    | .32                      | 7.4            |
| 150. HG-KH  | 19-275    | .32                      | 17.2           |
| 150. ✱HG-KH | 20-250    | .32                      | 16.6           |

✱On request

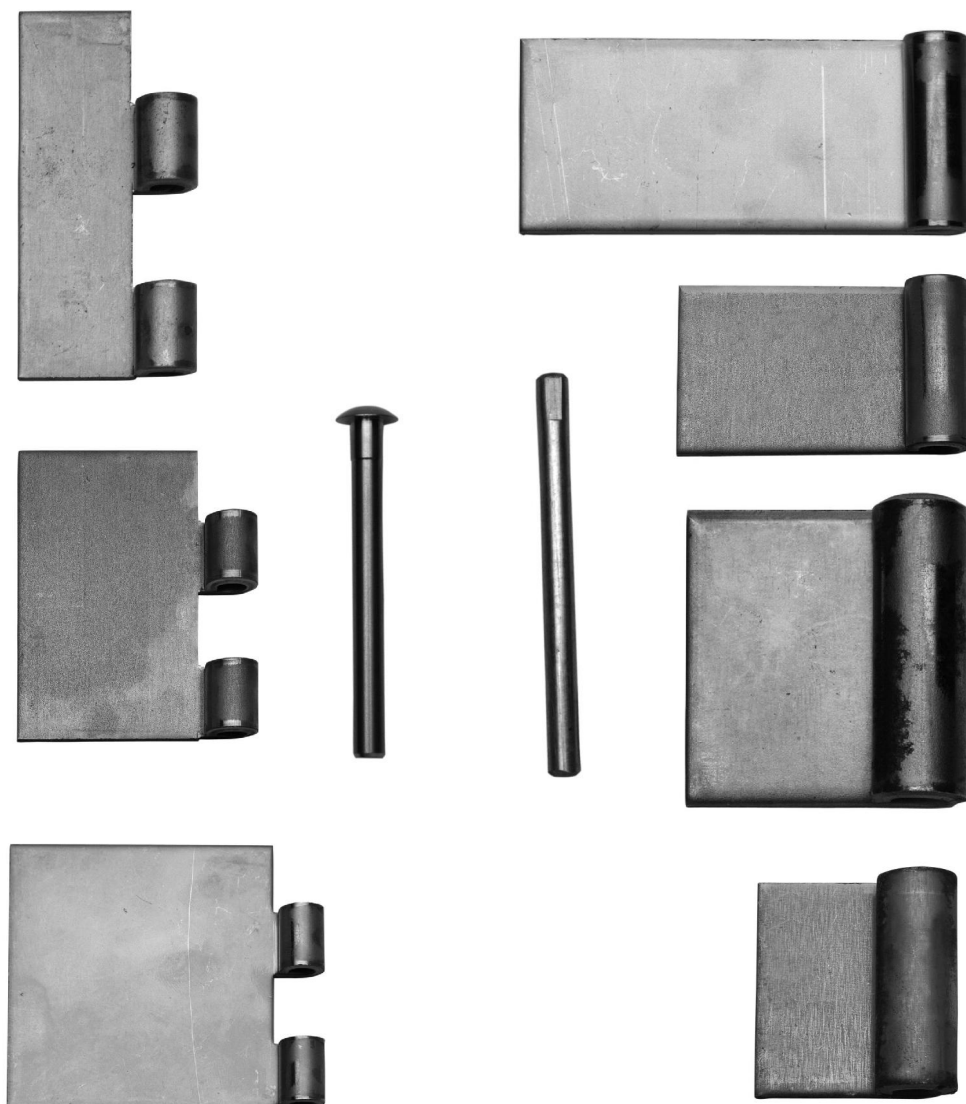
[Installation]



150.HG-KH19-275, 150.HG-KH20-250



## Individual parts for self made hinges



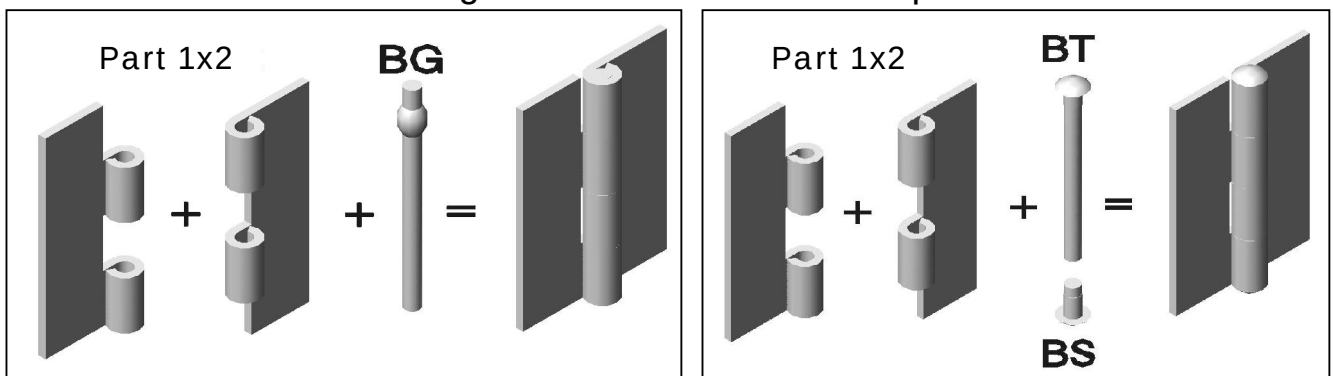


## Individual parts for selfmade hinges

### Materials and surface finishes:

|     |                                  |
|-----|----------------------------------|
| .00 | Raw steel ( 1.1203 )             |
| .01 | Nickel-plated                    |
| .02 | Brassed                          |
| .03 | Chromated                        |
| .04 | Zinc plated steel                |
| .05 | Bronzed                          |
| .06 | Black zinc plated                |
| .07 | Blued                            |
| .08 | Yellow chromated                 |
| .09 | EPD (Electrophoretic deposition) |
| .10 | Anodized silver-coloured         |
| .30 | Raw stainless steel (1.4301)     |
| .33 | Polished stainless steel         |
| .35 | Raw stainless steel (1.4401)     |

### Hinge combinations - example



**BG** jolted pin  
**BT** pin with head  
**BS** plug

### Ordering example:

Art.no. 6110 . 04/30

Drilling and assembly on request.

Material (steel / stainless steel)

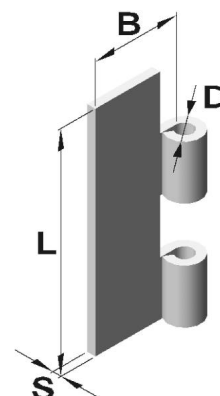
Hinge series/ pin series



## Individual parts for self made hinges

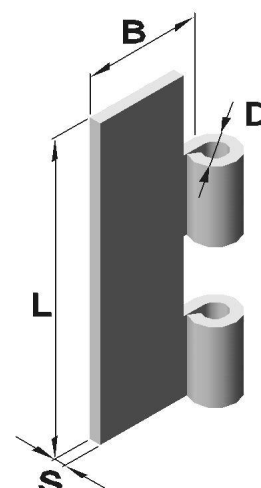
### Hinge module 3 mm

| Article no. |          |                 | Dimensions in mm |    |   |          |    |
|-------------|----------|-----------------|------------------|----|---|----------|----|
| Series      | Material |                 | L                | B  | S | Pin<br>Ø | D  |
|             | Raw      |                 |                  |    |   |          |    |
|             | Steel    | Stainless steel |                  |    |   |          |    |
| 6110        | .00      | -               | 80               | 30 | 3 | 6        | 12 |
| 6111        | -        | .30             | 80               | 30 | 3 | 6        | 12 |
| 6112        | .00      | -               | 80               | 40 | 3 | 6        | 12 |
| 6113        | -        | .30             | 80               | 40 | 3 | 6        | 12 |
| 6114        | .00      | -               | 80               | 50 | 3 | 6        | 12 |
| 6115        | -        | .30             | 80               | 50 | 3 | 6        | 12 |
| 6116        | .00      | -               | 80               | 60 | 3 | 6        | 12 |
| 6117        | -        | .30             | 80               | 60 | 3 | 6        | 12 |
| 6118        | .00      | -               | 80               | 80 | 3 | 6        | 12 |
| 6119        | -        | .30             | 80               | 80 | 3 | 6        | 12 |



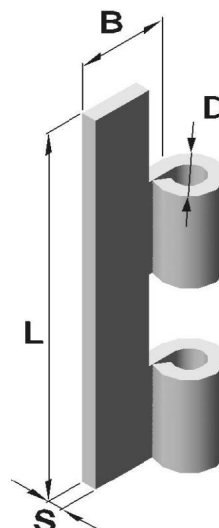
### Hinge module 4 mm

| Article no. |          |                 | Dimensions in mm |    |   |          |    |
|-------------|----------|-----------------|------------------|----|---|----------|----|
| Series      | Material |                 | L                | B  | S | Pin<br>Ø | D  |
|             | Raw      |                 |                  |    |   |          |    |
|             | Steel    | Stainless steel |                  |    |   |          |    |
| 6130        | .00      | -               | 100              | 30 | 4 | 8        | 16 |
| 6131        | -        | .30             | 100              | 30 | 4 | 8        | 16 |
| 6132        | .00      | -               | 100              | 40 | 4 | 8        | 16 |
| 6133        | -        | .30             | 100              | 40 | 4 | 8        | 16 |
| 6134        | .00      | -               | 100              | 50 | 4 | 8        | 16 |
| 6135        | -        | .30             | 100              | 50 | 4 | 8        | 16 |
| 6136        | .00      | -               | 100              | 60 | 4 | 8        | 16 |
| 6137        | -        | .30             | 100              | 60 | 4 | 8        | 16 |
| 6138        | .00      | -               | 100              | 80 | 4 | 8        | 16 |
| 6139        | -        | .30             | 100              | 80 | 4 | 8        | 16 |



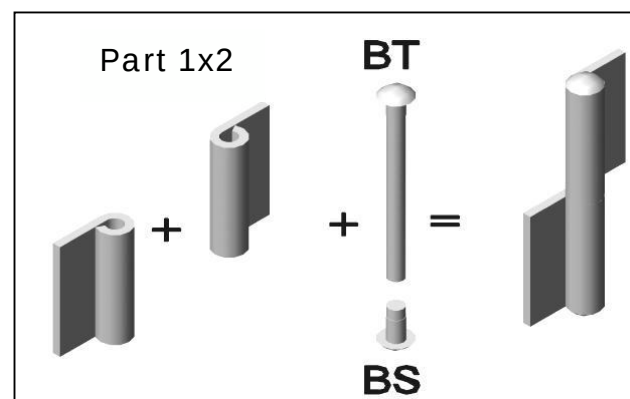
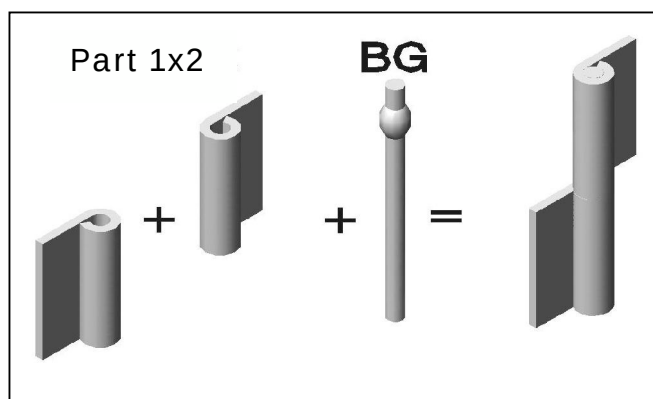
### Hinge module 5 mm

| Article no. |          |                 | Dimensions |    |   |          |    |
|-------------|----------|-----------------|------------|----|---|----------|----|
| Series      | Material |                 | L          | B  | S | Pin<br>Ø | D  |
|             | Raw      |                 |            |    |   |          |    |
|             | Steel    | Stainless steel |            |    |   |          |    |
| 6149        | .00      | -               | 120        | 30 | 5 | 10       | 20 |
| 6140        | -        | .30             | 120        | 30 | 5 | 10       | 20 |
| 6141        | .00      | -               | 120        | 40 | 5 | 10       | 20 |
| 6142        | -        | .30             | 120        | 40 | 5 | 10       | 20 |
| 6143        | .00      | -               | 120        | 50 | 5 | 10       | 20 |
| 6144        | -        | .30             | 120        | 50 | 5 | 10       | 20 |
| 6145        | .00      | -               | 120        | 60 | 5 | 10       | 20 |
| 6146        | -        | .30             | 120        | 60 | 5 | 10       | 20 |
| 6147        | .00      | -               | 120        | 80 | 5 | 10       | 20 |
| 6148        | -        | 30              | 120        | 80 | 5 | 10       | 20 |



# Individual parts for self made hinges

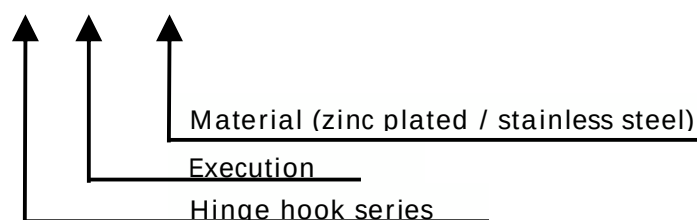
## Hinge hook combinations - example



BG joled pin  
BT pin with head  
BS plug

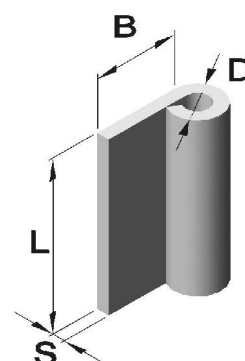
Ordering example:  
Art.no. 6210. 01. 04/30

Drilling and assembly on request.



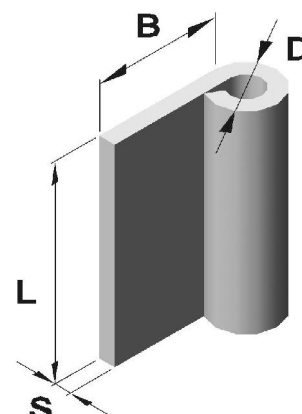
## Hinge hook module 3 mm

| Article no. |           |          |                 | Dimensions in mm |     |   |          |    |
|-------------|-----------|----------|-----------------|------------------|-----|---|----------|----|
| Series      | Execution | Material |                 | L                | B   | S | Pin<br>Ø | D  |
|             |           | Raw      |                 |                  |     |   |          |    |
|             |           | Steel    | Stainless steel |                  |     |   |          |    |
| 6210        | .01       | .00      | .30             | 40               | 20  | 3 | 6        | 12 |
| 6210        | .03       | .00      | .30             | 40               | 30  | 3 | 6        | 12 |
| 6210        | .05       | .00      | .30             | 40               | 50  | 3 | 6        | 12 |
| 6210        | .07       | .00      | .30             | 40               | 80  | 3 | 6        | 12 |
| 6210        | .09       | .00      | .30             | 40               | 120 | 3 | 6        | 12 |



## Hinge hook module 4 mm

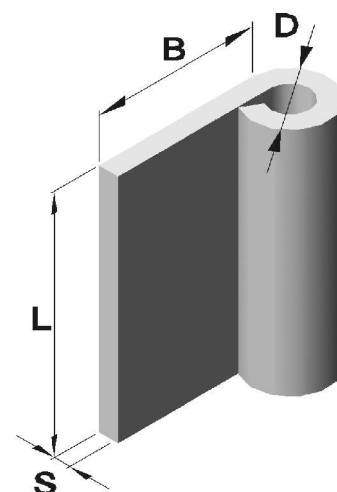
| Article no. |           |          |                 | Dimensions in mm |    |   |          |    |
|-------------|-----------|----------|-----------------|------------------|----|---|----------|----|
| Series      | Execution | Material |                 | L                | B  | S | Pin<br>Ø | D  |
|             |           | Raw      |                 |                  |    |   |          |    |
|             |           | Steel    | Stainless steel |                  |    |   |          |    |
| 6210        | .21       | .00      | .30             | 50               | 30 | 4 | 8        | 16 |
| 6210        | .23       | .00      | .30             | 50               | 50 | 4 | 8        | 16 |
| 6210        | .25       | .00      | .30             | 50               | 80 | 4 | 8        | 16 |



## Individual parts for self made hinges

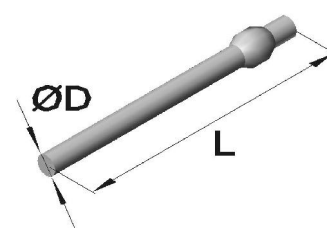
### Hinge hook module 5 mm

| Article no. |           |          |                 | Dimensions in mm |    |   |          |    |
|-------------|-----------|----------|-----------------|------------------|----|---|----------|----|
| Series      | Execution | Material |                 | L                | B  | S | Pin<br>Ø | D  |
|             |           | Raw      |                 |                  |    |   |          |    |
|             |           | Steel    | Stainless steel |                  |    |   |          |    |
| 6210        | .31       | .00      | .30             | 60               | 40 | 5 | 10       | 20 |
| 6210        | .33       | .00      | .30             | 60               | 60 | 5 | 10       | 20 |
| 6210        | .35       | .00      | .30             | 60               | 80 | 5 | 10       | 20 |



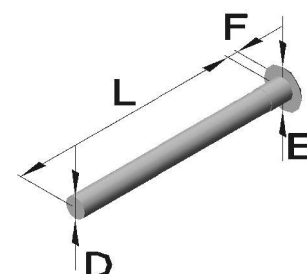
### Pin „BG “ - jolted

| Article no. |             |                 | Dimensions in mm |     |
|-------------|-------------|-----------------|------------------|-----|
| Series      | Material    |                 | L                | D Ø |
|             | Zinc plated | Raw             |                  |     |
|             | Steel       | Stainless steel |                  |     |
| 6150        | .04         | -               | 80               | 6   |
| 6151        | -           | .30             | 80               | 6   |
| 6152        | .04         | -               | 100              | 8   |
| 6153        | -           | .30             | 100              | 8   |
| 6154        | .04         | -               | 120              | 10  |
| 6155        | -           | .30             | 120              | 10  |



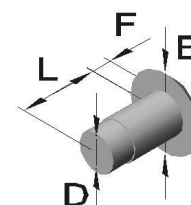
### Pin „BT “ - with head

| Article no. |             |                 | Dimensions in mm |     |   |    |
|-------------|-------------|-----------------|------------------|-----|---|----|
| Series      | Material    |                 | D Ø              | L   | F | E  |
|             | Zinc plated | Raw             |                  |     |   |    |
|             | Steel       | Stainless steel |                  |     |   |    |
| 6160        | .04         | -               | 6                | 66  | 3 | 12 |
| 6161        | -           | .30             | 6                | 66  | 3 | 12 |
| 6162        | .04         | -               | 8                | 86  | 4 | 16 |
| 6163        | -           | .30             | 8                | 86  | 4 | 16 |
| 6164        | .04         | -               | 10               | 106 | 5 | 20 |
| 6165        | -           | .30             | 10               | 106 | 5 | 20 |



### Plug „BS “ - with head

| Article no. |             |                 | Dimensions in mm |    |   |    |
|-------------|-------------|-----------------|------------------|----|---|----|
| Series      | Material    |                 | D Ø              | L  | F | E  |
|             | Zinc plated | Raw             |                  |    |   |    |
|             | Steel       | Stainless steel |                  |    |   |    |
| 6170        | .04         | -               | 6                | 12 | 3 | 12 |
| 6171        | -           | .30             | 6                | 12 | 3 | 12 |
| 6172        | .04         | -               | 8                | 12 | 4 | 16 |
| 6173        | -           | .30             | 8                | 12 | 4 | 16 |
| 6174        | .04         | -               | 10               | 12 | 5 | 20 |
| 6175        | -           | .30             | 10               | 12 | 5 | 20 |



# Individual parts for self made hinges

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## Spring hinges



Art.:6062



Art.:6063



Art.:6064



Art.:6065



Art.:6066



Art.:6067



Art.:6068



Art.:6164



Art.:6165



Art.:6166



Art.:6105



Art.:6169



Art.:6167



Art.:6486



Art.:6088



Art.:6872



Art.:6876



## Spring hinges with adjustable spring force



Art.: 158.I-5524



Art.:158.5334



Art.: 158.I-5124



Art.:158.5224



Art.:158.5314



Art.:158.5814



Art.:158.6117



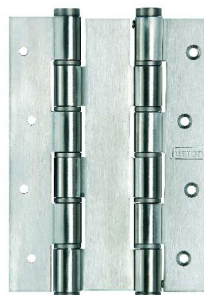
Art.:158.6117



Art.:158.6314



Art.:158.5414



Art.:158.5914



Art.:158.5914

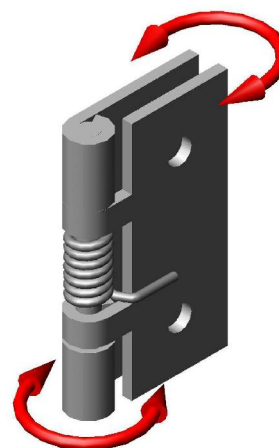
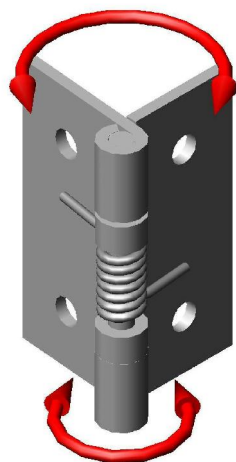


Art.:158.5414



## Spring hinges

Rotating direction of the hinge

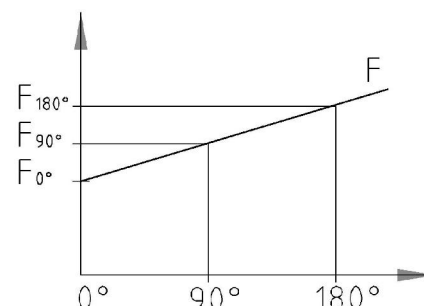
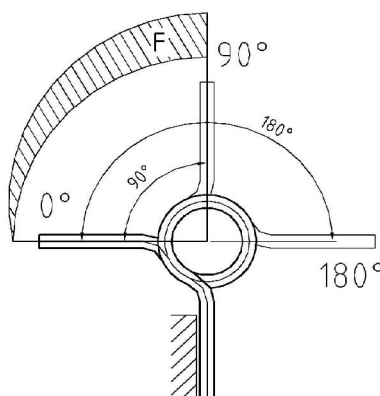


Pressure direction of the hinge

**Execution\_.01**  
(mounted self-opening spring)

**Execution\_.02**  
(mounted self-closing spring)

F = Force of the spring on a point at a distance of 100 mm from the axis of the hinge.  
Through rotation you become a linear force increase, that can be measured in grams.  
Starting position / Delivery status = 0°

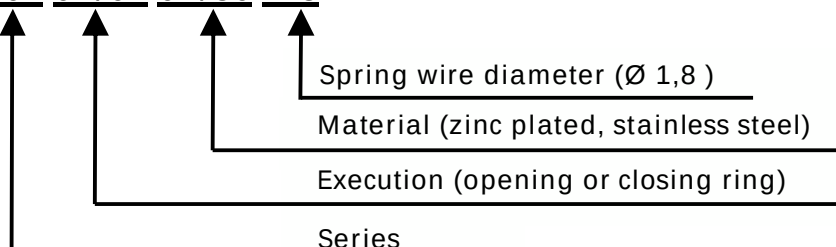


F = spring force

|          |   |       |
|----------|---|-------|
| F (0°)   | = | 50 g  |
| F (90°)  | = | 100 g |
| F (180°) | = | 150 g |

Ordering example:

Art.no 6001 01/02 04/30.F18

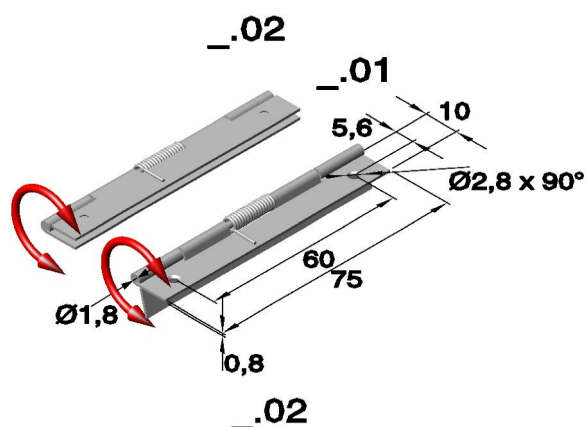


# Spring hinges

Art. no.: 6062 (drilled and countersunk)

Tension spring made of stainless steel spring

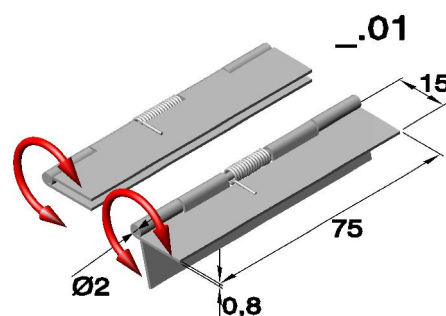
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6062        | .01       | .00      | .30             | 60                    | 90  | 120  |
| 6062        | .02       | .00      | .30             | 60                    | 90  | 120  |



Art. no.: 6063

Tension spring made of steel or stainless steel.

| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6063        | .01       | .00      | .30             | 60                    | 90  | 120  |
| 6063        | .02       | .00      | .30             | 60                    | 90  | 120  |

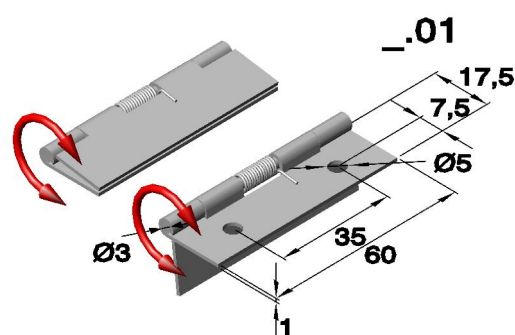


Art. no.: 6064 (drilled)

.01 / .02-tension spring made of steel.

.03 / .04-tension spring made of stainless steel

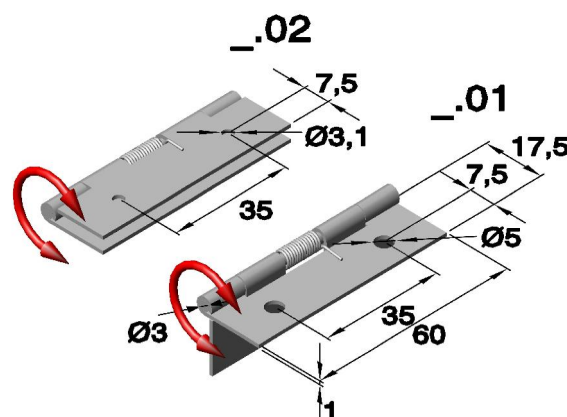
| Article no. |              |                           |          | Elastic force<br>in g |     |      |
|-------------|--------------|---------------------------|----------|-----------------------|-----|------|
| Series      | Execution    |                           | Material | 0°                    | 90° | 180° |
|             |              |                           | Raw      |                       |     |      |
|             | Steel spring | Stainless<br>steel spring | Steel    |                       |     |      |
| 6064        | .01          | .03                       | .00      | 45                    | 70  | 90   |
| 6064        | .02          | .04                       | .00      | 45                    | 70  | 90   |



Art. no.: 6065 (drilled)

Tension spring made of steel or stainless steel.

| Article no. |           |                 | Elastic force<br>in g |     |      |
|-------------|-----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material        | 0°                    | 90° | 180° |
|             |           | Raw             |                       |     |      |
|             |           | Stainless steel |                       |     |      |
| 6065        | .01       | .30             | 40                    | 60  | 80   |
| 6065        | .02       | .30             | 40                    | 60  | 80   |

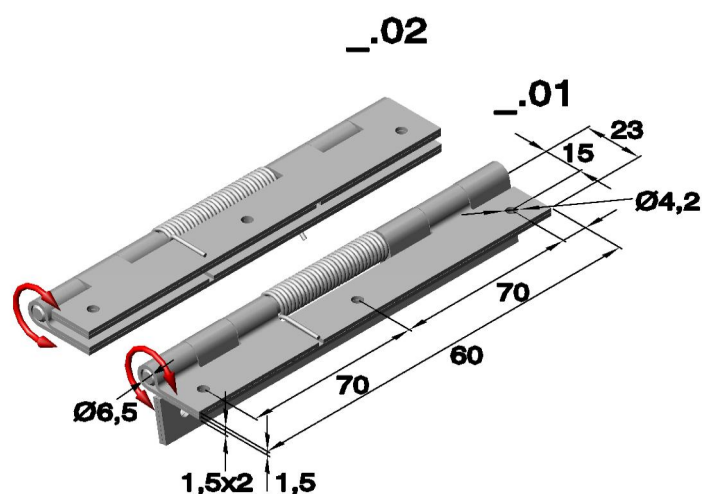


## Spring hinges

Art. no.: 6066 (drilled)

Tension spring made of stainless steel.

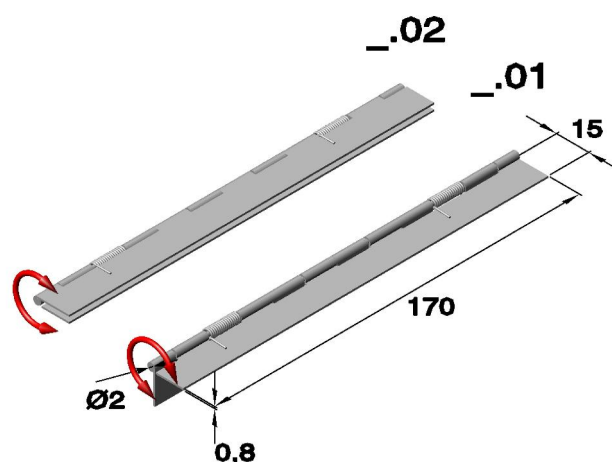
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6066        | .01       | .00      | .30             | 550                   | 750 | 950  |
| 6066        | .02       | .00      | .30             | 550                   | 750 | 950  |



Art. no.: 6067

Tension spring made of stainless steel.

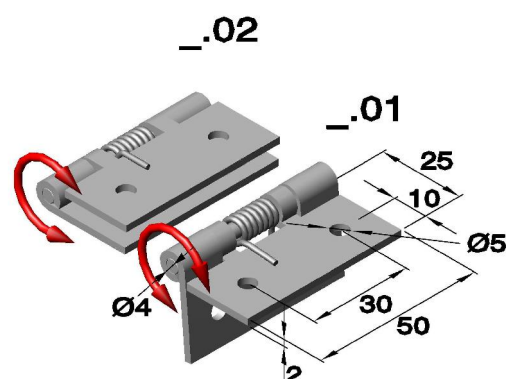
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6067        | .01       | .00      | .30             | 140                   | 220 | 300  |
| 6067        | .02       | .00      | .30             | 140                   | 220 | 300  |



Art. no.: 6068 (drilled)

Tension spring made of stainless steel.

| Article no. |           |             |                 |        |                     | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------|---------------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | Spring | Spring wire Ø in mm | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |        |                     |                    |     |      |
|             |           | Steel       | Stainless steel |        |                     |                    |     |      |
| 6068        | .01       | .08         | .30             |        | 1,5                 | 320                | 640 | 1060 |
| 6068        | .02       | .08         | .30             |        | 1,5                 | 320                | 640 | 1060 |
| 6068        | .01       | .08         | .30             | .F08   | 0,8                 | 20                 | 50  | 80   |
| 6068        | .02       | .08         | .30             | .F08   | 0,8                 | 20                 | 50  | 80   |
| 6068        | .01       | .08         | .30             | .F10   | 1,0                 | 40                 | 120 | 200  |
| 6068        | .02       | .08         | .30             | .F10   | 1,0                 | 40                 | 120 | 200  |
| 6068        | .01       | .08         | .30             | .F1.25 | 1,25                | 140                | 300 | 500  |
| 6068        | .02       | .08         | .30             | .F1.25 | 1,25                | 140                | 300 | 500  |

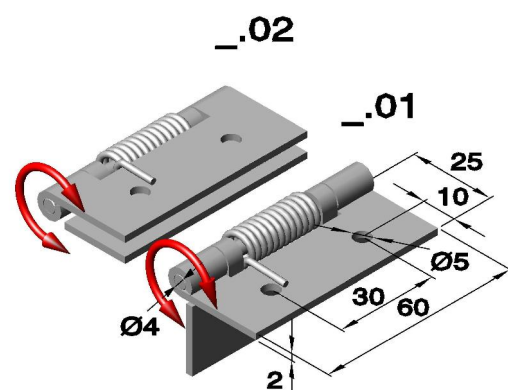


# Spring hinges

Art. no.: 6107 (drilled)

Tension spring made of stainless steel.

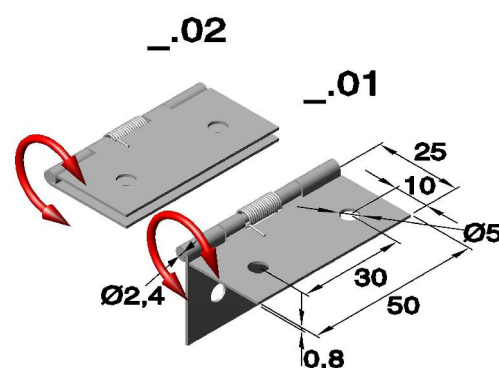
| Article no. |           |             |                 |        |                     | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------|---------------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | Spring | Spring wire Ø in mm | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |        |                     |                    |     |      |
|             |           | Steel       | Stainless steel |        |                     |                    |     |      |
| 6107        | .01       | .04         | .30             | .F18   | 1,8                 | 400                | 900 | 1400 |
| 6107        | .02       | .04         | .30             | .F18   | 1,8                 | 400                | 900 | 1400 |



Art. no.: 6108 (drilled)

Tension spring made of stainless steel.

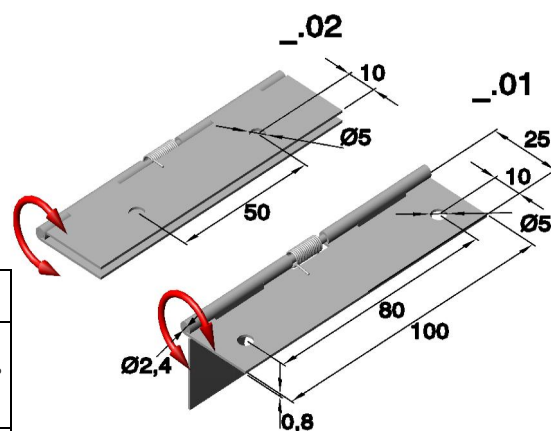
| Article no. |           |                 |        |                        | Elastic force<br>in g |     |      |
|-------------|-----------|-----------------|--------|------------------------|-----------------------|-----|------|
| Series      | Execution | Material        | Spring | Spring wire<br>Ø in mm | 0°                    | 90° | 180° |
|             |           | Raw             |        |                        |                       |     |      |
|             |           | Stainless steel |        |                        |                       |     |      |
| 6108        | .01       | .30             | .F05   | 0,5                    | 10                    | 20  | 30   |
| 6108        | .02       | .30             | .F05   | 0,5                    | 10                    | 20  | 30   |
| 6108        | .01       | .30             | .F06   | 0,6                    | 20                    | 40  | 60   |
| 6108        | .02       | .30             | .F06   | 0,6                    | 20                    | 40  | 60   |
| 6108        | .01       | .30             | .F08   | 0,8                    | 30                    | 60  | 90   |
| 6108        | .02       | .30             | .F08   | 0,8                    | 30                    | 60  | 90   |



Art. no.: 99.A100 (drilled)

Tension spring made of stainless steel.

| Article no. |           |             |                 |        |                     | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------|---------------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | Spring | Spring wire Ø in mm | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |        |                     |                    |     |      |
|             |           | Steel       | Stainless steel |        |                     |                    |     |      |
| 99.A100     | .01       | .04         | .30             | -      | 0,4                 | 7                  | 15  | 25   |
| 99.A100     | .02       | .04         | .30             | -      | 0,4                 | 7                  | 15  | 25   |
| 99.A100     | .01       | .04         | .30             | .F08   | 0,8                 | 30                 | 60  | 90   |
| 99.A100     | .02       | .04         | .30             | .F08   | 0,8                 | 30                 | 60  | 90   |

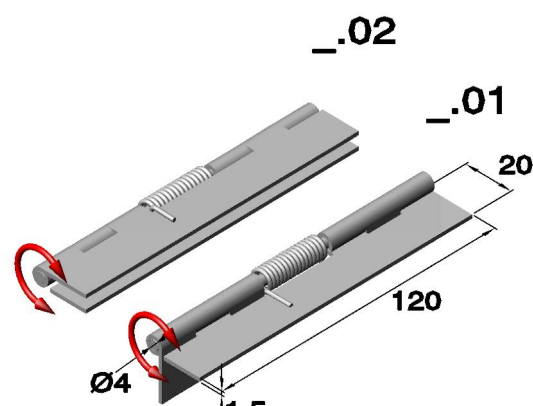


## Spring hinges

### Art. no.: 6164

Tension spring made of stainless steel.

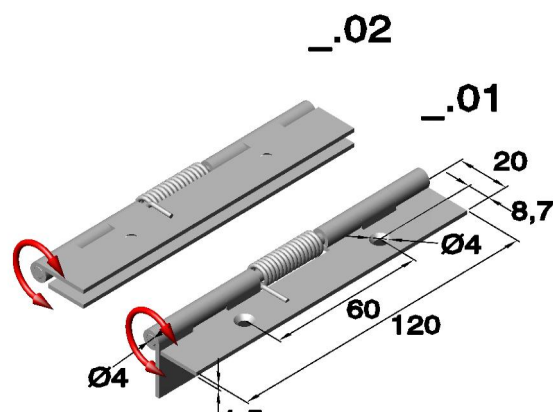
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6164        | .01       | .00      | .30             | 60                    | 300 | 600  |
| 6164        | .02       | .00      | .30             | 60                    | 300 | 600  |



### Art. no.: 6164. \_\_ /G (drilled and countersunk)

Tension spring made of stainless steel.

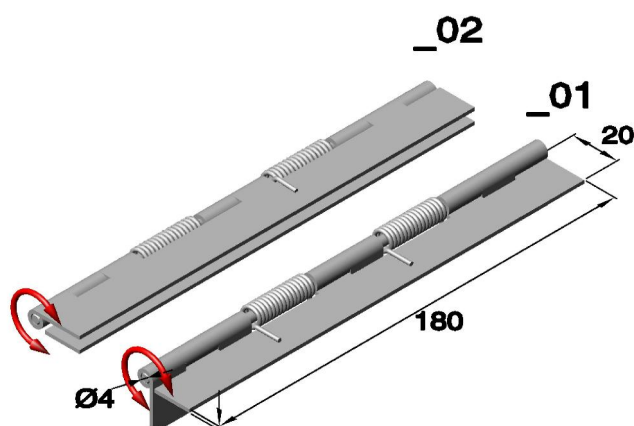
| Article no. |           |             |                 | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |                    |     |      |
|             |           | Steel       | Stainless steel |                    |     |      |
| 6164        | .01       | .04/G       | .30/G           | 60                 | 300 | 600  |
| 6164        | .02       | .04/G       | .30/G           | 60                 | 300 | 600  |



### Art. no.: 6165

Tension spring made of stainless steel.

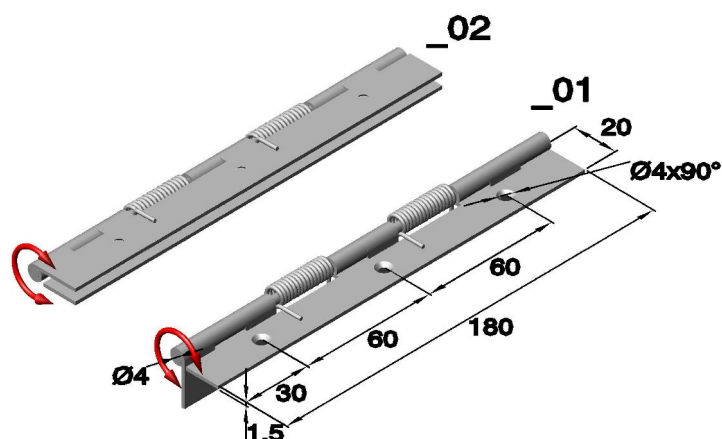
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6165        | .01       | .00      | .30             | 120                   | 600 | 1200 |
| 6165        | .02       | .00      | .30             | 120                   | 600 | 1200 |



### Art. no.: 6165. \_\_ /G (drilled and countersunk)

Tension spring made of stainless steel.

| Article no. |           |             |                 | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |                    |     |      |
|             |           | Steel       | Stainless steel |                    |     |      |
| 6165        | .01       | .04/G       | .30/G           | 120                | 600 | 1200 |
| 6165        | .02       | .04/G       | .30/G           | 120                | 600 | 1200 |



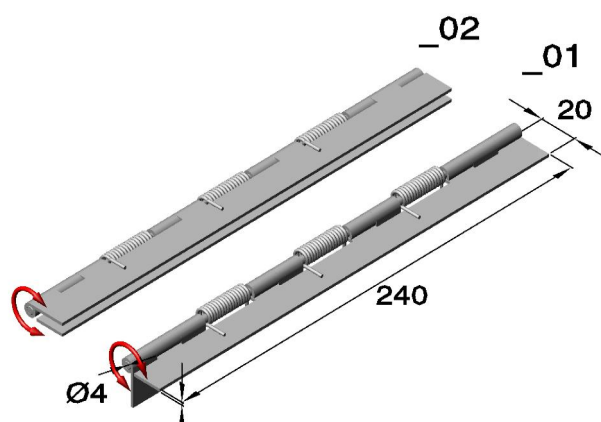


# Spring hinges

## Art. no.: 6166

Tension spring made of stainless steel.

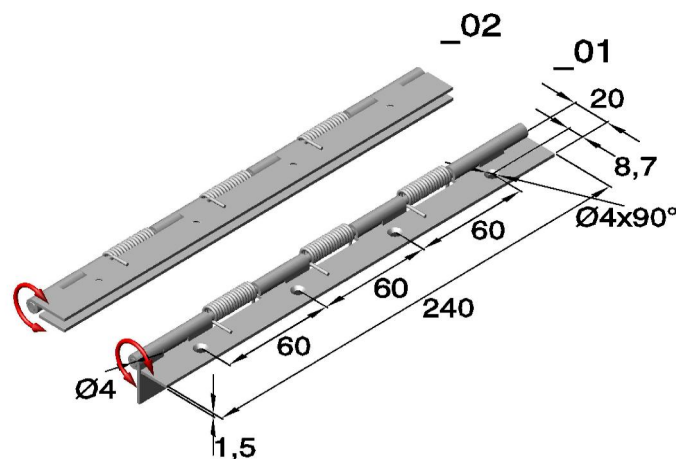
| Article no. |           |          |                 | Elastic force<br>in g |     |      |
|-------------|-----------|----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material |                 | 0°                    | 90° | 180° |
|             |           | Raw      |                 |                       |     |      |
|             |           | Steel    | Stainless steel |                       |     |      |
| 6166        | .01       | .00      | .30             | 180                   | 900 | 1800 |
| 6166        | .02       | .00      | .30             | 180                   | 900 | 1800 |



## Art. no.: 6166. \_\_. /G (drilled and countersunk)

Tension spring made of stainless steel.

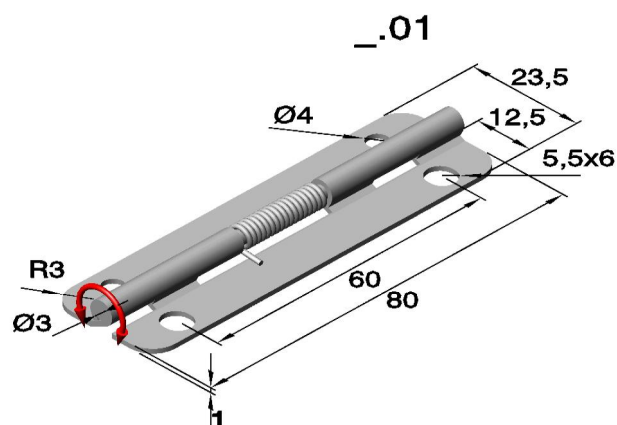
| Article no. |           |             |                 | Elastic force in g |     |      |
|-------------|-----------|-------------|-----------------|--------------------|-----|------|
| Series      | Execution | Material    |                 | 0°                 | 90° | 180° |
|             |           | Zinc plated | Raw             |                    |     |      |
|             |           | Steel       | Stainless steel |                    |     |      |
| 6166        | .01       | .04/G       | .30/G           | 180                | 900 | 1800 |
| 6166        | .02       | .04/G       | .30/G           | 180                | 900 | 1800 |



## Art. no.: 6169 (drilled)

Tension spring made of stainless steel.

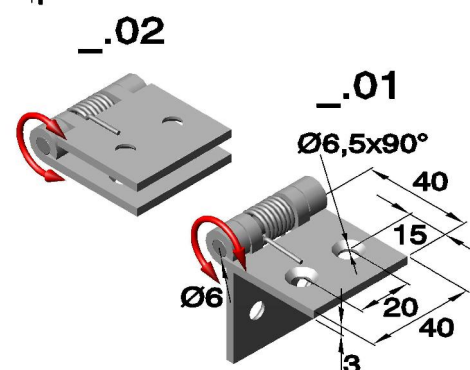
| Article no. |           |                 | Elastic force<br>in g |     |      |
|-------------|-----------|-----------------|-----------------------|-----|------|
| Series      | Execution | Material        | 0°                    | 90° | 180° |
|             |           | Raw             |                       |     |      |
|             |           | Stainless steel |                       |     |      |
| 6169        | .01       | .30             | 50                    | 100 | 150  |



## Art. no.: 64080 (drilled and countersunk)

Tension spring made of stainless steel.

| Article no. |           |                 |        |                        | Elastic force<br>in g |     |      |
|-------------|-----------|-----------------|--------|------------------------|-----------------------|-----|------|
| Series      | Execution | Material        | Spring | Spring wire<br>Ø in mm | 0°                    | 90° | 180° |
|             |           | Raw             |        |                        |                       |     |      |
|             |           | Stainless steel |        |                        |                       |     |      |
| 64080       | .01       | .30             | .F15   | 1.5                    | 150                   | 520 | 920  |
| 64080       | .02       | .30             | .F15   | 1.5                    | 150                   | 520 | 920  |



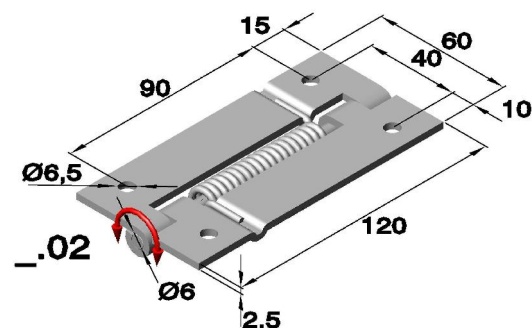


## Spring hinges

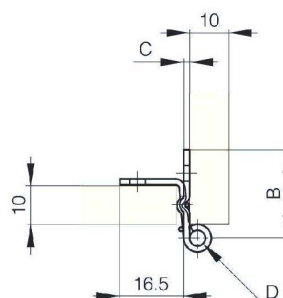
Art. no.: 6941 (drilled)

Tension spring made of stainless steel.

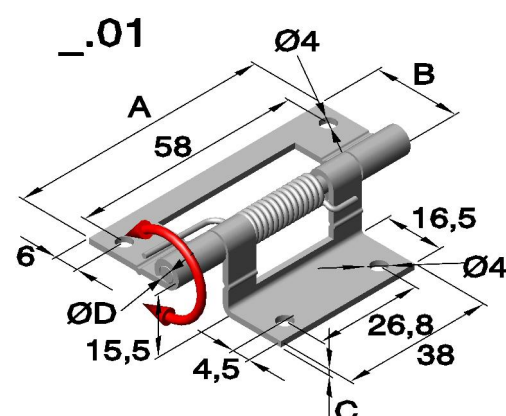
| Article no. |           |                        |        |                     | Elastic force in g |      |      |
|-------------|-----------|------------------------|--------|---------------------|--------------------|------|------|
| Series      | Execution | Material               | Spring | Spring wire Ø in mm | 0°                 | 90°  | 180° |
|             |           | Raw<br>Stainless steel |        |                     |                    |      |      |
| 6941        | .01       | .30                    | .F28   | 2,8                 | 300                | 1600 | 2600 |
| 6941        | .02       | .30                    | .F28   | 2,8                 | 300                | 1600 | 2600 |



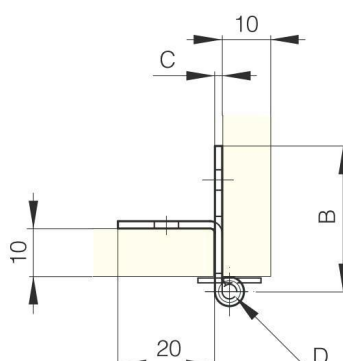
Art. no.: 6167 (drilled)



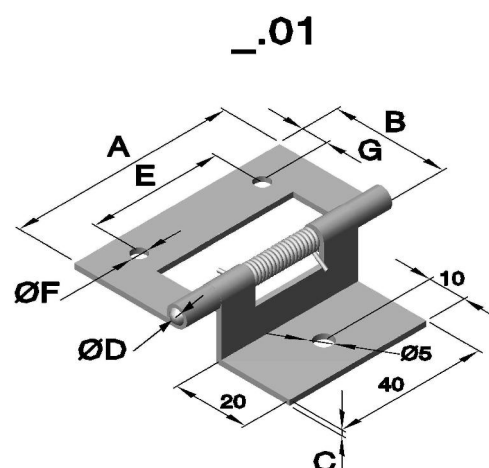
| Article no. |           |                             | Dimensions in mm |      |     | Elastic force in g |     |      |
|-------------|-----------|-----------------------------|------------------|------|-----|--------------------|-----|------|
| Series      | Execution | Material                    | A                | B    | C   | 0°                 | 90° | 180° |
|             |           | Polished<br>Stainless steel |                  |      |     |                    |     |      |
| 6167        | .01       | .35                         | 66               | 22,5 | 1,5 | 60                 | 200 | 380  |



Art. no.: 6486 (drilled)



| Article no. |           |                        | Dimensions in mm |    |     |     |    |     |   |
|-------------|-----------|------------------------|------------------|----|-----|-----|----|-----|---|
| Series      | Execution | Material               | A                | B  | C   | Ø D | E  | Ø F | G |
|             |           | Raw<br>Stainless steel |                  |    |     |     |    |     |   |
| 6486        | .01       | .35                    | 60               | 30 | 1,5 | 3   | 36 | 4,2 | 7 |



## Spring hinges

Art. no.: 6872 (drilled and countersunk)

Art. no.: 6873 (drilled and countersunk)

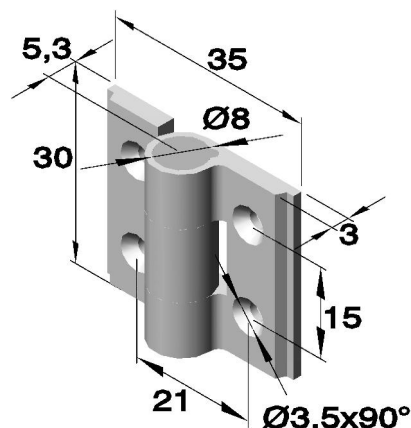
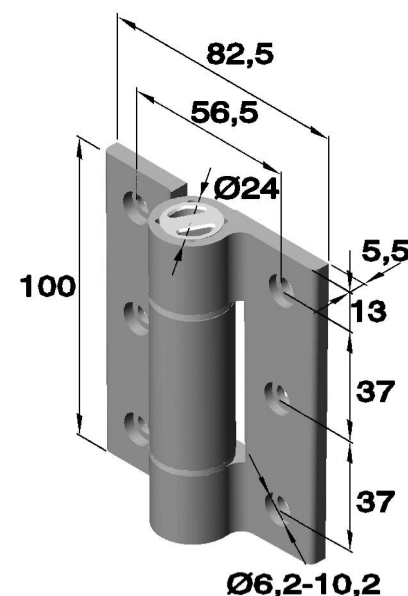
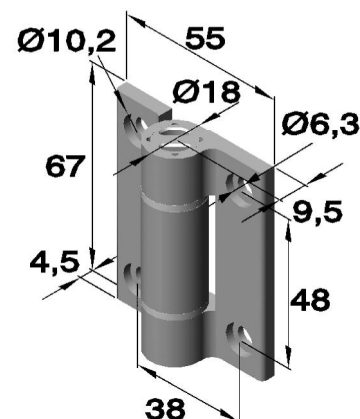
with integrated spring

Also available as:

Free running hinge see chapter "hinges"

Torque hinge see chapter "torque and detent hinges"

Detent hinges see chapter "torque and detent hinges"



| Article no. |                  |                   |       | Elastic force<br>in N m |      |      |
|-------------|------------------|-------------------|-------|-------------------------|------|------|
| Series      | Execution        | Material          |       | 0°                      | 90°  | 180° |
|             |                  | Aluminium 6060 T5 |       |                         |      |      |
|             |                  | Silver            | Black |                         |      |      |
| 6872        | .01 self opening | .70               | .77   | 0,23                    | 0,45 | 0.7  |
| 6872        | .03 self closing | .70               | .77   | 0,23                    | 0,45 | 0.7  |
| 6872        | .02 self opening | .70               | .77   | 0,12                    | 0,24 | 0,35 |
| 6872        | .04 self closing | .70               | .77   | 0,12                    | 0,24 | 0,35 |
| 6873        | .01 self opening | .70               | .77   | 0,9                     | 1,1  | 1,3  |
| 6873        | .02 self closing | .70               | .77   | 0,9                     | 1,1  | 1,3  |

Art. no.: 6876 (drilled and countersunk)

with integrated spring

Also available as:

Free running hinge see chapter "hinges"

Soft-closing hinge see also chapter "torque and detent hinges"

| Article no. |           |                   |       | Elastic force<br>in N m |     |      |
|-------------|-----------|-------------------|-------|-------------------------|-----|------|
| Series      | Execution | Material          |       | 0°                      | 90° | 180° |
|             |           | Aluminium 6060 T5 |       |                         |     |      |
|             |           | Silver            | Black |                         |     |      |
| 6876        | .01       | .70.              | .77   | 2,4                     | 3,1 | 3,8  |
| 6876        | .02       | .70               | .77   | 2.4                     | 3.1 | 3.8  |

Art.no.:6960 (drilled and countersunk)

with integrated spring

Also available as:

Torque hinge see chapter "torque and detent hinges"

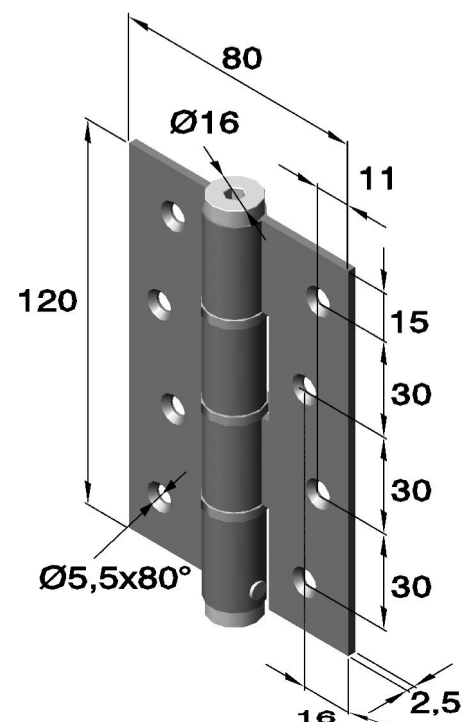
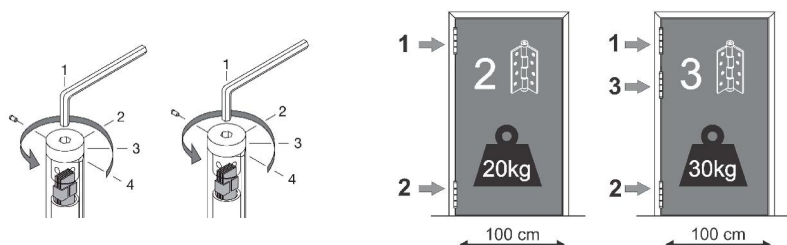
Detent hinge see chapter "torque and detent hinges"

| Article no. |           |             |             | Elastic force in N m |      |      |
|-------------|-----------|-------------|-------------|----------------------|------|------|
| Series      | Execution | Material    |             | 0°                   | 90°  | 180° |
|             |           | Colourless  | Black       |                      |      |      |
|             |           | Alu 6060 T5 | Alu 6060 T5 |                      |      |      |
| 6960        | .01       | .71         | .77         | 0,2                  | 0,12 | 0,07 |
| 6960        | .02       | .71         | .77         | 0,2                  | 0,12 | 0,07 |

## Spring hinges

Art.no. 158. 5314. \_\_. \_\_ (spring force adjustable)

with integrated spring



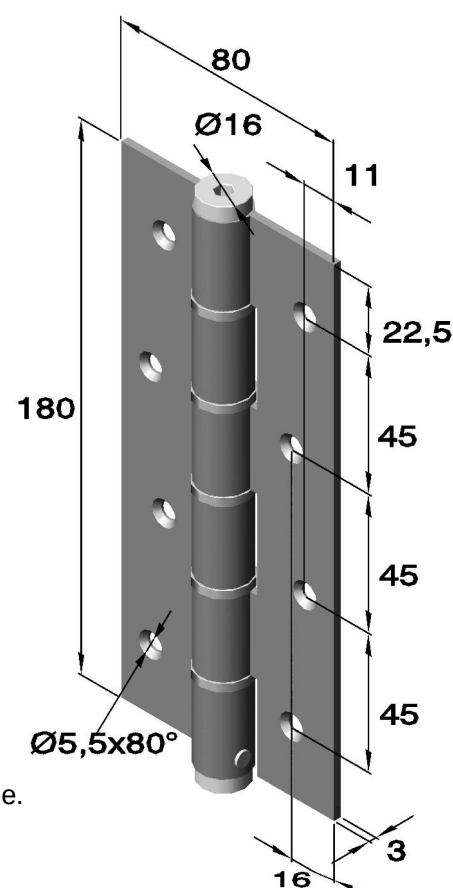
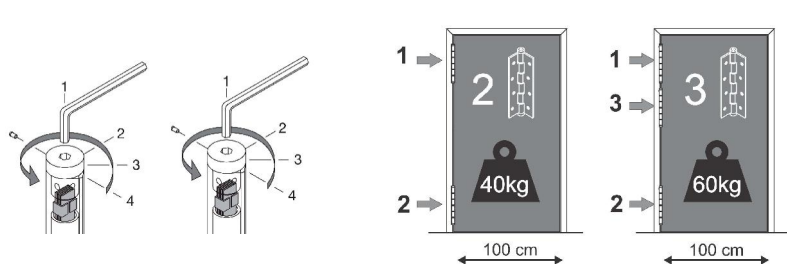
| Article no. |             |                 | Loading capacity in Kg |              |
|-------------|-------------|-----------------|------------------------|--------------|
| Series      | Material    |                 | for 2 hinges           | for 3 hinges |
|             | Zinc plated | Brushed         |                        |              |
|             | Steel       | Stainless steel |                        |              |
| 158.5314.08 | .04         | -               | 20                     | 30           |
| 158.5314.05 | -           | .30             | 20                     | 30           |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
max. aperture angle 180°.

Art.no. 158. 5814. \_\_. \_\_ (spring force adjustable)

with integrated spring



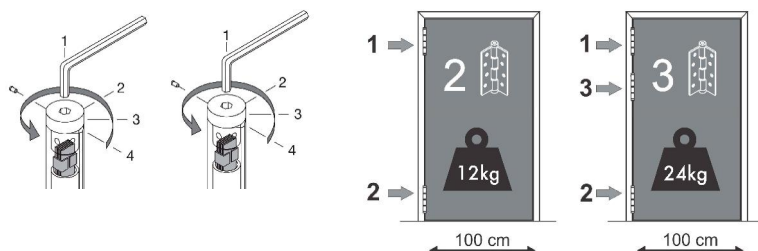
| Article no. |             |                 | Loading capacity in Kg |              |
|-------------|-------------|-----------------|------------------------|--------------|
| Series      | Material    |                 | for 2 hinges           | for 3 hinges |
|             | Zinc plated | Brushed         |                        |              |
|             | Steel       | Stainless steel |                        |              |
| 158.5814.08 | .04         | -               | 40                     | 60           |
| 158.5814.05 | -           | .30             | 40                     | 60           |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
max. aperture angle 180°.

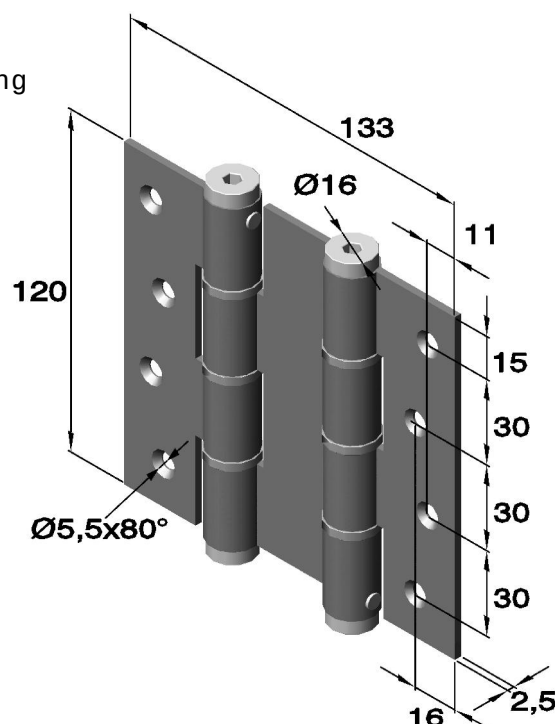
## Spring hinges

Art.no. 158. 5414. \_\_. \_\_ (spring force adjustable)  
Double joint hinge/Swing door hinge, with integrated spring



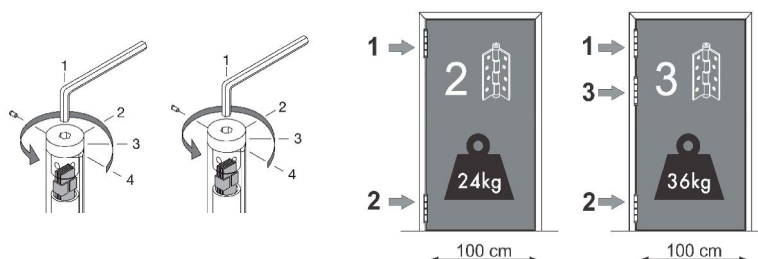
| Article no. |             |                 | Loading capacity in Kg |              |
|-------------|-------------|-----------------|------------------------|--------------|
| Series      | Material    |                 | for 2 hinges           | for 3 hinges |
|             | Zinc plated | Brushed         |                        |              |
|             | Steel       | Stainless steel |                        |              |
| 158.5414.08 | .04         | -               | 12                     | 24           |
| 158.5414.05 | -           | .30             | 12                     | 24           |

This product will be delivered only in pairs.  
Close doors automatically,  
integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



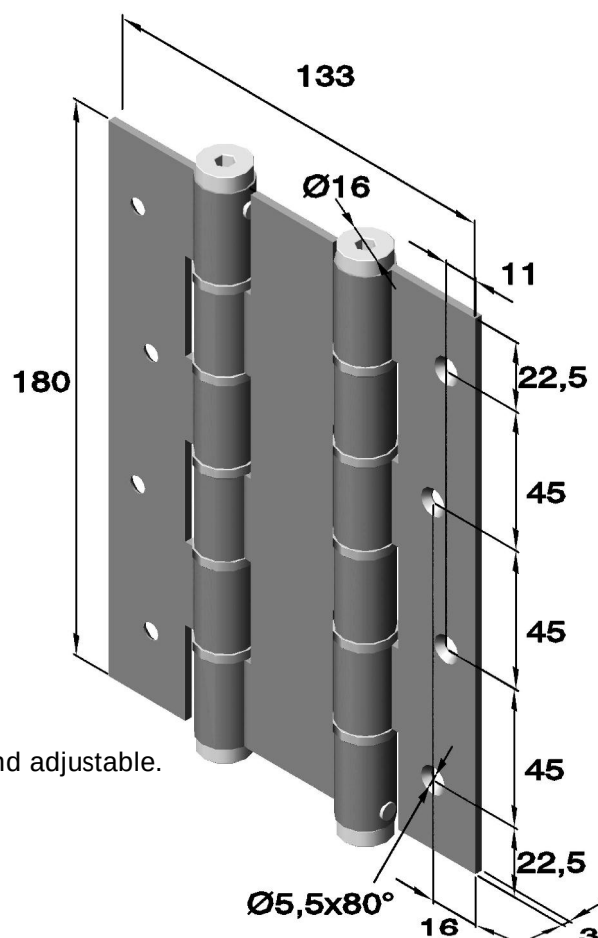
Art.no. 158. 5914. \_\_. \_\_ (spring force adjustable)

double joint hinge/Swing door hinge,  
with integrated spring



| Article no. |             |                 | Loading capacity in Kg |              |
|-------------|-------------|-----------------|------------------------|--------------|
| Series      | Material    |                 | for 2 hinges           | for 3 hinges |
|             | Zinc plated | Brushed         |                        |              |
|             | Steel       | Stainless steel |                        |              |
| 158.5914.08 | .04         | -               | 24                     | 36           |
| 158.5914.05 | -           | .30             | 24                     | 36           |

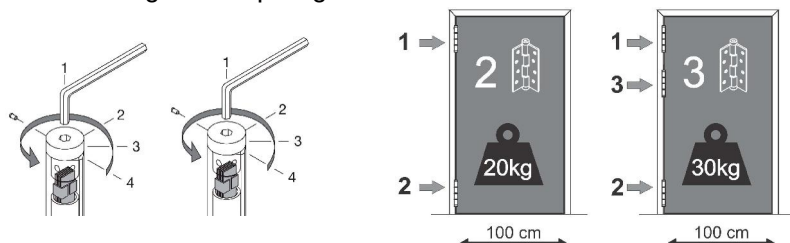
This product will be delivered only in pairs.  
Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



## Spring hinges

Art.no. 158. 5314. \_\_. \_\_ (spring force adjustable)

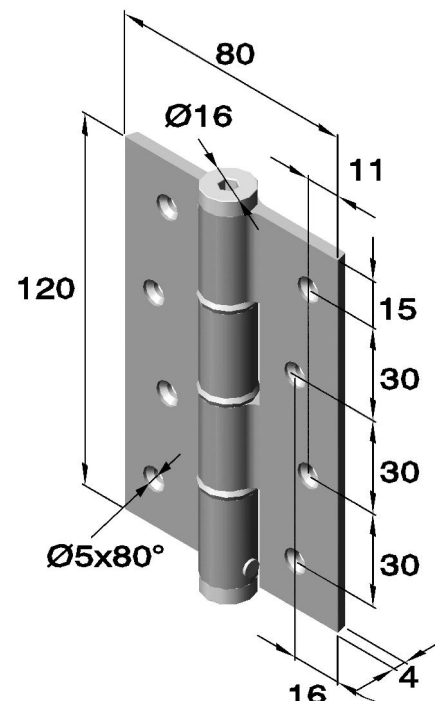
with integrated spring



| Article no. |          |           | Loading capacity in kg |              |
|-------------|----------|-----------|------------------------|--------------|
| Series      | Material |           | for 2 hinges           | for 3 hinges |
|             | Anodized | Aluminium |                        |              |
| 158.5314.01 | .71      | Silver    | 20                     | 30           |
| 158.5314.02 | .72      | Gold      | 20                     | 30           |
| 158.5314.03 | .73      | Bronze    | 20                     | 30           |
| 158.5314.06 | .76      | White     | 20                     | 30           |
| 158.5314.09 | .77      | Black     | 20                     | 30           |

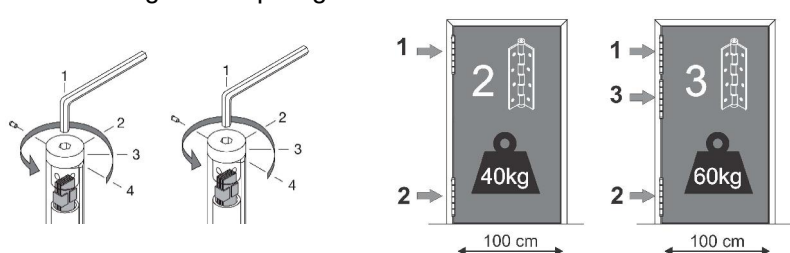
This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



Art.no. 158. 5814. \_\_. \_\_ (spring force adjustable)

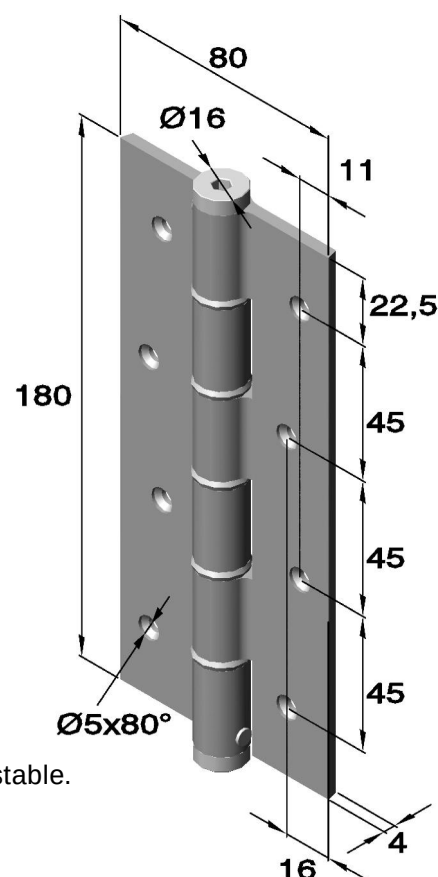
with integrated spring



| Article no. |          |           | Loading capacity in kg |              |
|-------------|----------|-----------|------------------------|--------------|
| Series      | Material |           | for 2 hinges           | for 3 hinges |
|             | Anodized | Aluminium |                        |              |
| 158.5814.01 | .71      | Silver    | 40                     | 60           |
| 158.5814.02 | .72      | Gold      | 40                     | 60           |
| 158.5814.03 | .73      | Bronze    | 40                     | 60           |
| 158.5814.06 | .76      | White     | 40                     | 60           |
| 158.5814.09 | .77      | Black     | 40                     | 60           |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.

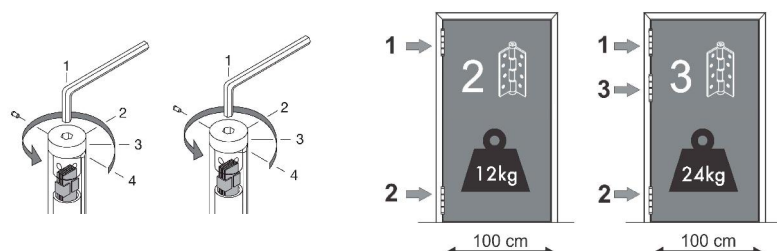




## Spring hinges

Art.no. 158. 5414. \_\_. \_\_ (spring force adjustable)

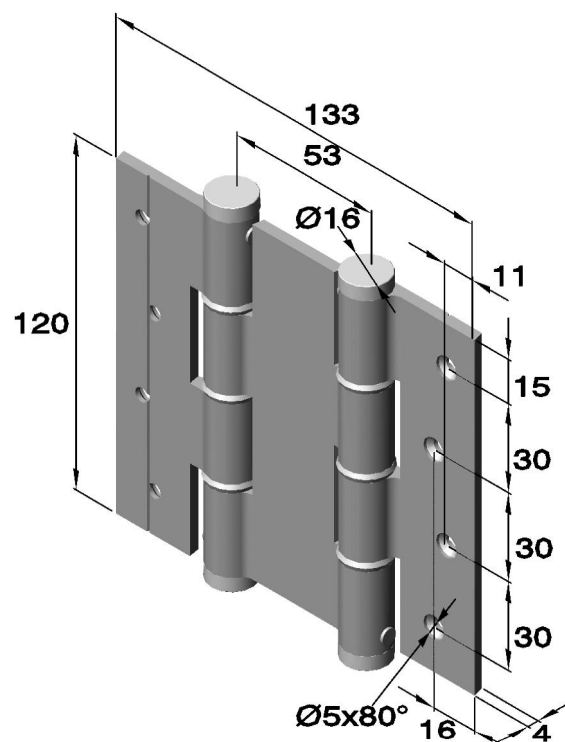
Double joint hinge/Swing door hinge,  
with integrated spring



| Article no. |          |           | Loading capacity in kg |              |
|-------------|----------|-----------|------------------------|--------------|
| Series      | Material |           | for 2 hinges           | for 3 hinges |
|             | Anodized | Aluminium |                        |              |
| 158.5414.01 | .71      | Silver    | 12                     | 24           |
| 158.5414.02 | .72      | Gold      | 12                     | 24           |
| 158.5414.03 | .73      | Bronze    | 12                     | 24           |
| 158.5414.06 | .76      | White     | 12                     | 24           |
| 158.5414.09 | .77      | Black     | 12                     | 24           |

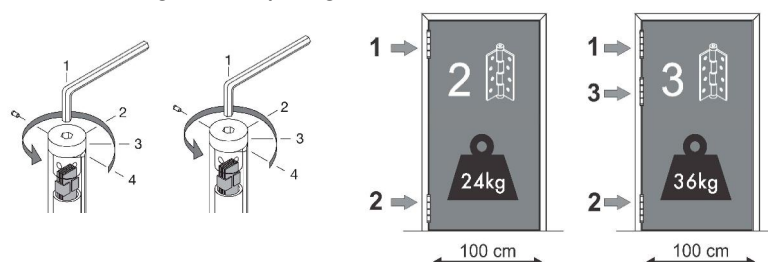
This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



Art.no. 158. 5914. \_\_. \_\_ (spring force adjustable)

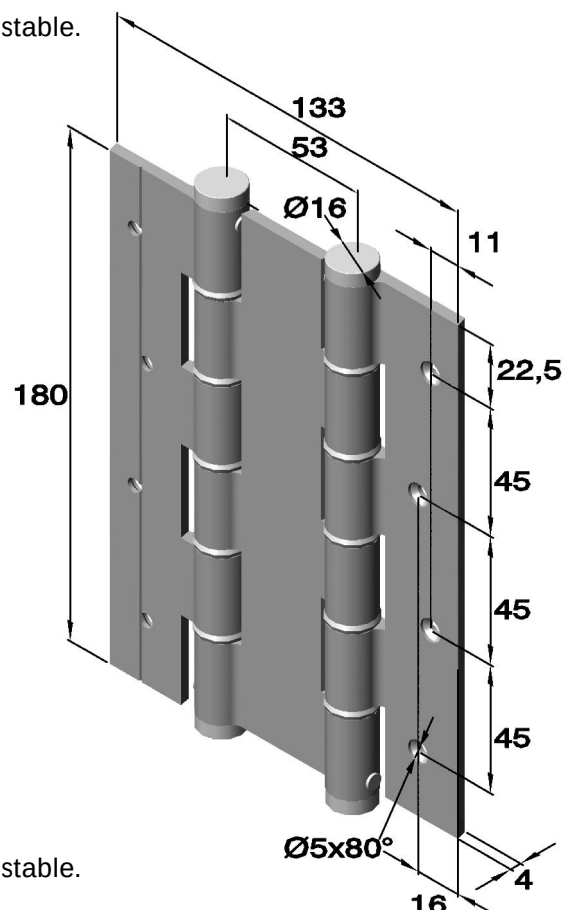
Double joint hinge/Swing door hinge,  
with integrated spring



| Article no. |          |           | Loading capacity in kg |              |
|-------------|----------|-----------|------------------------|--------------|
| Series      | Material |           | for 2 hinges           | for 3 hinges |
|             | Anodized | Aluminium |                        |              |
| 158.5914.01 | .71      | Silver    | 24                     | 36           |
| 158.5914.02 | .72      | Gold      | 24                     | 36           |
| 158.5914.03 | .73      | Bronze    | 24                     | 36           |
| 158.5914.06 | .76      | White     | 24                     | 36           |
| 158.5914.09 | .77      | Black     | 24                     | 36           |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.

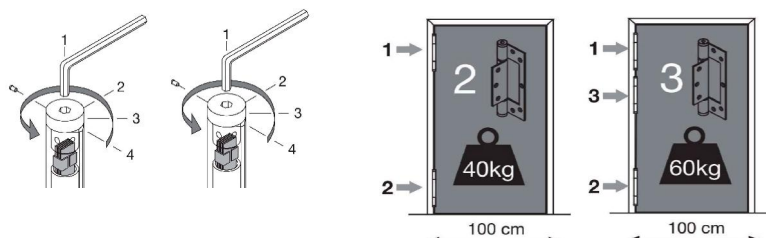




## Spring hinges

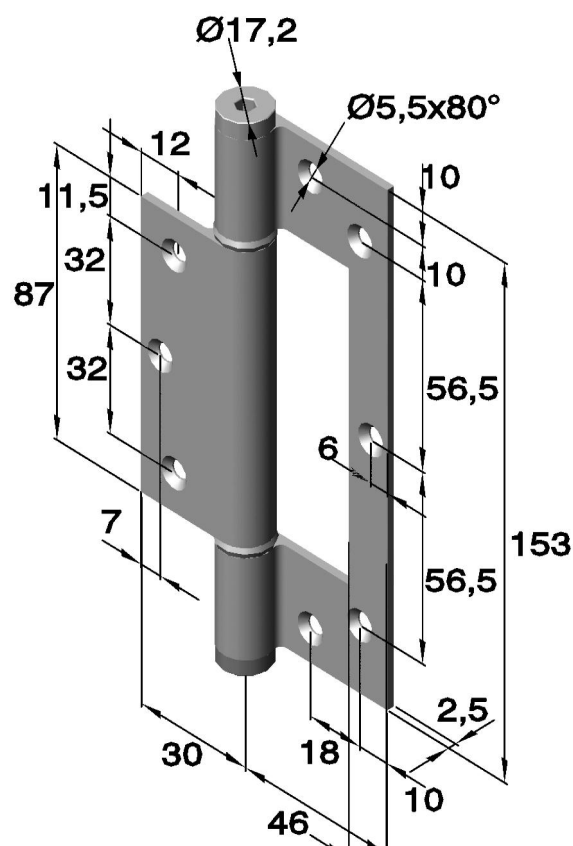
Art.no. 158.6314. \_\_. \_\_ (spring force adjustable)

with integrated spring



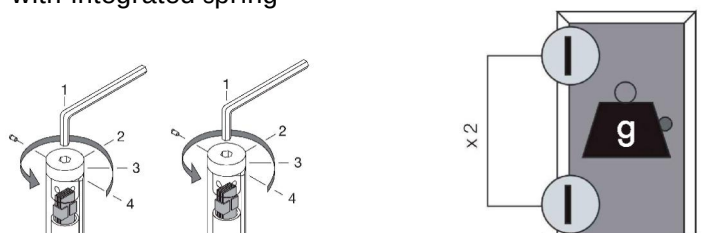
| Article no. |          |           | Loading capacity in kg |              |
|-------------|----------|-----------|------------------------|--------------|
| Series      | Material |           | for 2 hinges           | for 3 hinges |
|             | Anodized | Aluminium |                        |              |
| 158.6314.01 | .71      | Silver    | 40                     | 60           |
| 158.6314.02 | .72      | Gold      | 40                     | 60           |
| 158.6314.03 | .73      | Bronze    | 40                     | 60           |
| 158.6314.06 | .76      | White     | 40                     | 60           |
| 158.6314.09 | .77      | Black     | 40                     | 60           |

This product will be delivered only in pairs.  
Close doors automatically,  
integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



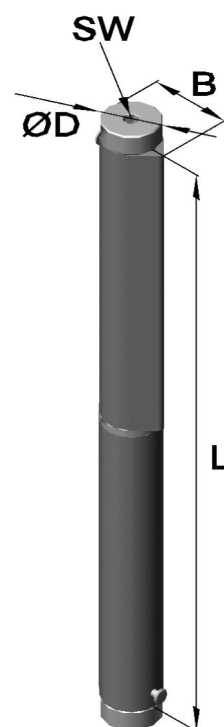
Art.no. 158.I-5 \_\_. \_\_ (spring force adjustable)

with integrated spring



| Article no. |          | Dimensions in mm |    |    |    | Loading capacity in kg |
|-------------|----------|------------------|----|----|----|------------------------|
| Series      | Material | L                | B  | SW | ØD | g                      |
|             | Raw      |                  |    |    |    |                        |
|             | Steel    |                  |    |    |    |                        |
| 158.I-5524  | .00      | 120              | 21 | 5  | 18 | 20                     |
| 158.I-5324  | .00      | 180              | 21 | 5  | 18 | 40                     |
| 158.I-5124  | .00      | 235              | 26 | 5  | 22 | 60                     |

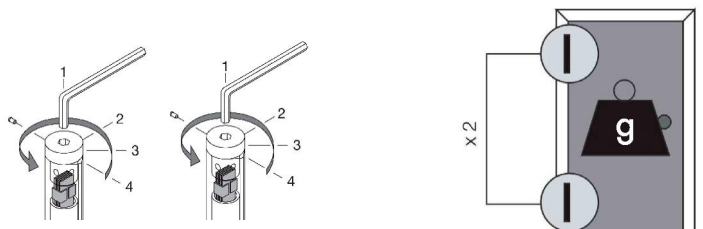
This product will be delivered only in pairs.  
Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



## Spring hinges

Art.no. 158.I-5 \_\_\_\_ . \_\_\_\_ (spring force adjustable)

with integrated spring, with ball bearing

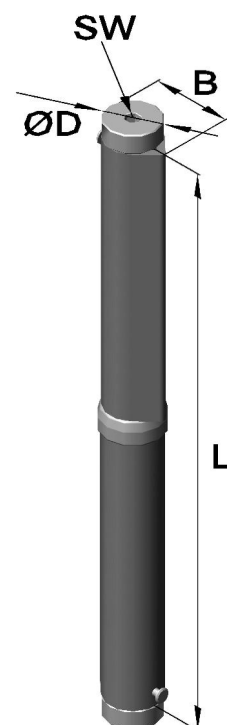


| Article no. |           | Dimensions in mm |    |    |    | Loading capacity in kg |
|-------------|-----------|------------------|----|----|----|------------------------|
| Series      | Material  | L                | B  | SW | ØD | g                      |
|             | Raw Steel |                  |    |    |    |                        |
| 158.I-5334  | .00       | 180              | 21 | 5  | 18 | 60                     |
| 158.I-5134  | .00       | 235              | 26 | 5  | 22 | 120                    |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.

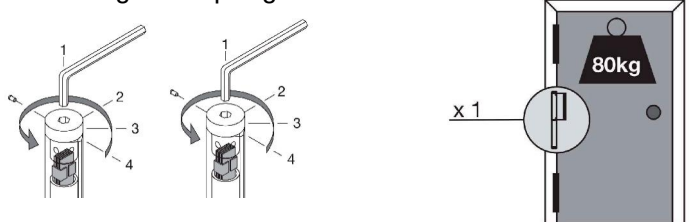
Max. aperture angle 180°.



## Hinges for fire doors

Art.no. 158.I-5224. \_\_\_\_ (spring force adjustable)

with integrated spring

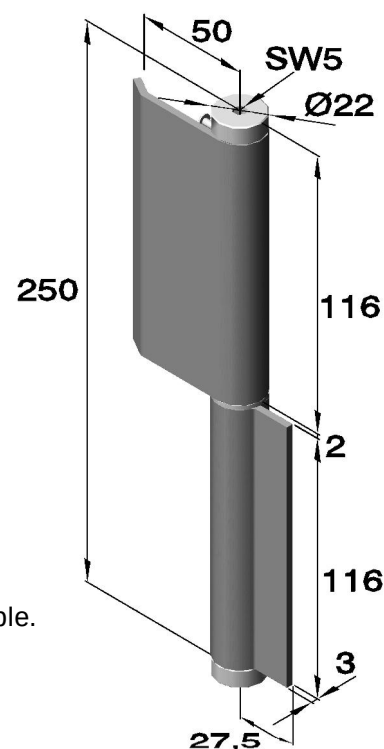


| Article no. |           |
|-------------|-----------|
| Series      | Material  |
|             | Raw Steel |
| 158.I-5224  | .00       |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.

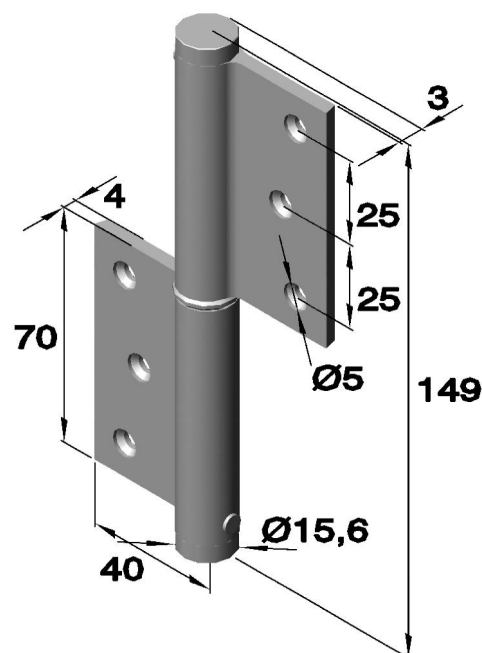
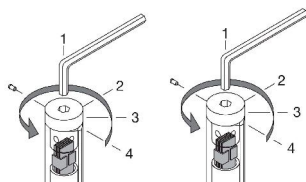
Max. aperture angle 180°.



## Spring hinges

Art.no. 158. 6717. \_\_. \_\_ (spring force adjustable)

with integrated spring



| Article no. |           |        |
|-------------|-----------|--------|
| Series      | Material  |        |
|             | Anodized  |        |
|             | Aluminium |        |
| 158.6717.01 | .71       | Silver |
| 158.6717.02 | .72       | Gold   |
| 158.6717.03 | .73       | Bronze |
| 158.6717.06 | .76       | White  |
| 158.6717.09 | .77       | Black  |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.

Max. aperture angle 180°.

## Spring hinges

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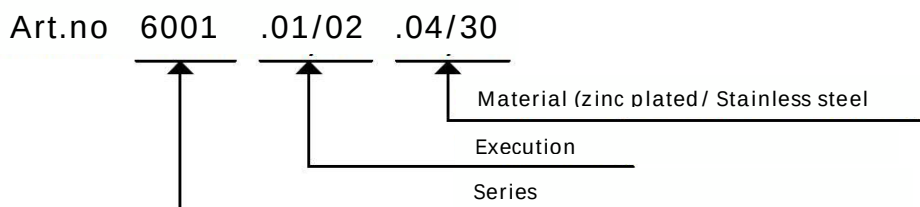
Phone:  
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+49 (0) 231 / 725 790 -0  
+49 (0) 231 / 725 790 -10  
[info@hokon-verschlusstechnik.de](mailto:info@hokon-verschlusstechnik.de)  
[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)

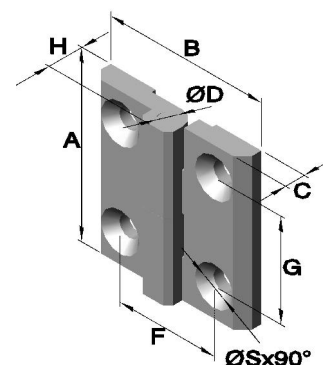
## Plastic hinges

### hinges made of polyamide

Ordering example:



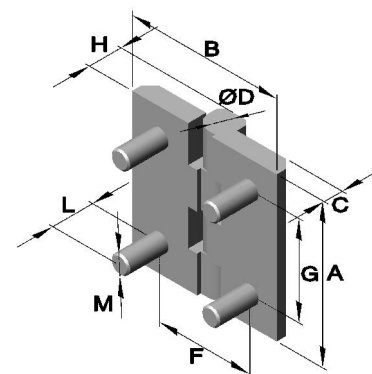
Art. no.: 6550 (drilled and countersunk)  
with stainless steel pin



| Article no. |           | Material  | Dimensions in mm |    |   |     |    |    |      |       |
|-------------|-----------|-----------|------------------|----|---|-----|----|----|------|-------|
| Series      | Execution |           | A                | B  | C | Ø D | F  | G  | H    | Ø Pin |
| 6550        | .01       | Polyamide | 40               | 40 | 5 | 4   | 25 | 25 | 9    | 5,3   |
| 6550        | .02       | Polyamide | 50               | 50 | 6 | 6   | 30 | 30 | 11,5 | 6,4   |

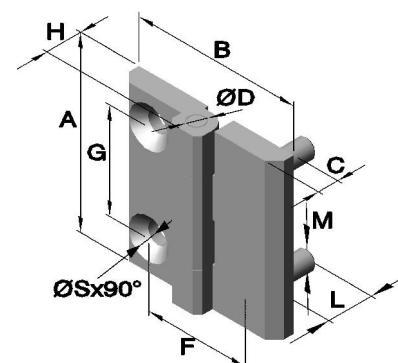
Art. no.: 6551  
with stainless steel pin and threaded bolts

| Article no. |           | Material  | Dimensions in mm |    |   |     |    |    |      |    |    |
|-------------|-----------|-----------|------------------|----|---|-----|----|----|------|----|----|
| Series      | Execution |           | A                | B  | C | Ø D | F  | G  | H    | L  | M  |
| 6551        | .01       | Polyamide | 40               | 40 | 5 | 4   | 25 | 25 | 9    | 11 | M5 |
| 6551        | .02       | Polyamide | 50               | 50 | 6 | 6   | 30 | 30 | 11,5 | 15 | M6 |



Art. no.: 6552 (drilled and countersunk)  
with stainless steel pin and threaded bolt

| Article no. |           | Material  | Dimensions in mm |    |   |     |    |    |      |    |    |       |
|-------------|-----------|-----------|------------------|----|---|-----|----|----|------|----|----|-------|
| Series      | Execution |           | A                | B  | C | Ø D | F  | G  | H    | L  | M  | Ø Pin |
| 6552        | .01       | Polyamide | 40               | 40 | 5 | 4   | 25 | 25 | 9    | 11 | M5 | 5,3   |
| 6552        | .02       | Polyamide | 50               | 50 | 6 | 6   | 30 | 30 | 11,5 | 15 | M6 | 6,4   |

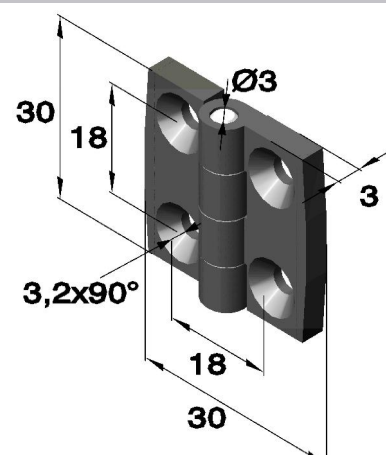


## Plastic hinges hinges made of polyamide

**Art. no.: 6530** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
30 % glas fibre polyamide  
UL 94 V-0 classification

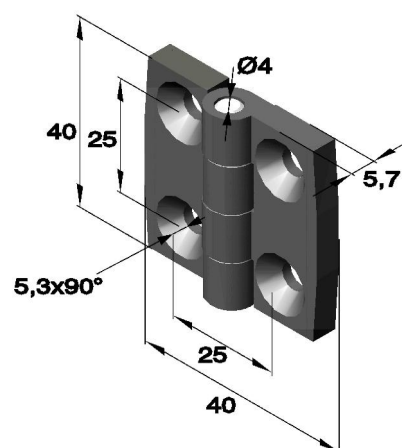
| Article no. |           |                    |
|-------------|-----------|--------------------|
| Series      | Execution | Material           |
|             |           | Black<br>Polyamide |
| 6530        | .01       | .80                |



**Art. no.: 6530** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
30 % glas fibre polyamide  
UL 94 V-0 classification

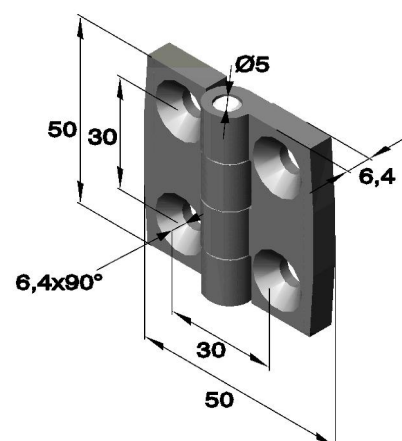
| Article no. |           |                    |
|-------------|-----------|--------------------|
| Series      | Execution | Material           |
|             |           | Black<br>Polyamide |
| 6530        | .02       | .80                |



**Art. no.: 6530** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
30 % glas fibre polyamide  
UL 94 V-0 classification

| Article no. |           |                    |
|-------------|-----------|--------------------|
| Series      | Execution | Material           |
|             |           | Black<br>Polyamide |
| 6530        | .03       | .80                |



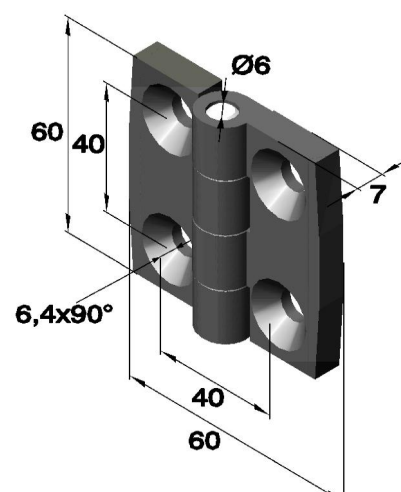


## Plastic hinges hinges made of polyamide

**Art. no.: 6530** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
30 % glas fibre polyamide  
UL 94 V-0 classification

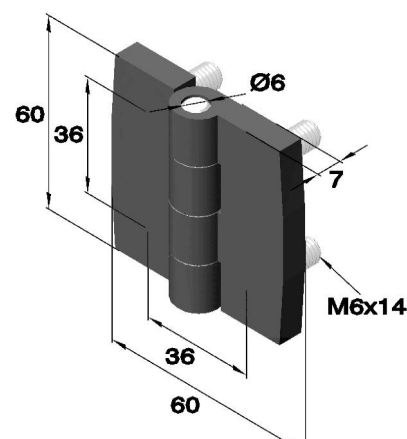
| Article no. |           |                    |
|-------------|-----------|--------------------|
| Series      | Execution | Material           |
|             |           | Black<br>Polyamide |
| 6530        | .04       | .80                |



**Art. no.: 6560**  
with stainless steel pin and threaded bolt

Material and surface:  
30 % glas fibre polyamide  
UL 94 V-0 classification

| Article no. |           |                    |
|-------------|-----------|--------------------|
| Series      | Execution | Material           |
|             |           | Black<br>Polyamide |
| 6560        | .01       | .80                |



## Plastic hinges

### hinges made of polyamide

Plastic hinges in rolls of 15,25 m

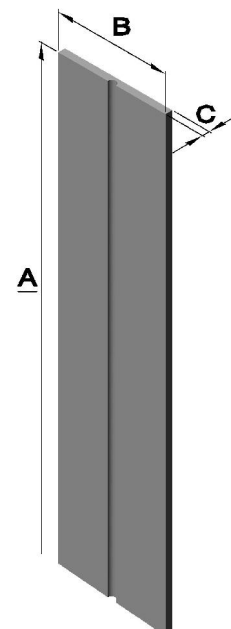
Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

Chemical resistance: oil, seawater, solvents and most chemical substances.

| Article no. |        |      |       | Material      | Dimensions in mm |      |     |
|-------------|--------|------|-------|---------------|------------------|------|-----|
| Series      | Colour |      |       |               | A                | B    | C   |
|             | White  | Grey | Black |               |                  |      |     |
| 6521        | .01    | .02  | .03   | Polypropylene | 15250            | 28,6 | 3,2 |
| 6522        | .01    | .02  | .03   | Polypropylene | 15250            | 38,1 | 3,2 |
| 6523        | .01    | .02  | .03   | Polypropylene | 15250            | 50,8 | 3,2 |
| 6524        | .01    | .02  | .03   | Polypropylene | 15250            | 76,2 | 3,2 |



Art.no.:6525 (drilled and countersunk)

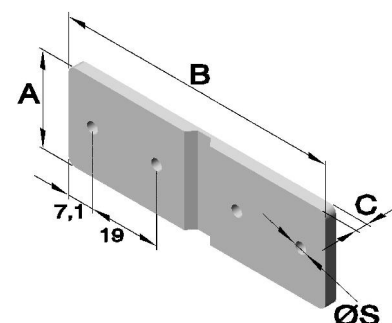
Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars

Chemical resistance: oil, seawater, solvents and the most chemical substances.

| Series | Article no. |       | Material      | Dimensions in mm |      |     |     |
|--------|-------------|-------|---------------|------------------|------|-----|-----|
|        | White       | Black |               | A                | B    | C   | Ø S |
| 6525   | .01         | .03   | Polypropylene | 25,4             | 76,2 | 3,2 | 3,2 |



Art.no.:6526 (drilled and countersunk)

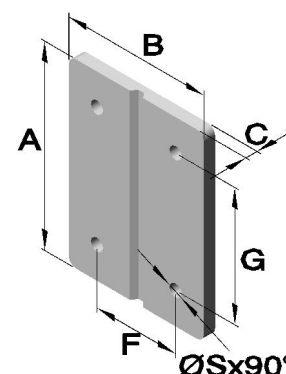
Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

Chemical resistance: oil, seawater, solvents and the most chemical substances.

| Series | Article no. |       | Materials     | Dimensions in mm |      |      |      |      |      |
|--------|-------------|-------|---------------|------------------|------|------|------|------|------|
|        | White       | Black |               | A                | B    | C    | F    | G    | Ø S  |
| 6526   | .01         | .03   | Polypropylene | 50,8             | 38,1 | 3,17 | 22,2 | 33,3 | 3,43 |



## Plastic hinges

### hinges made of polyamide

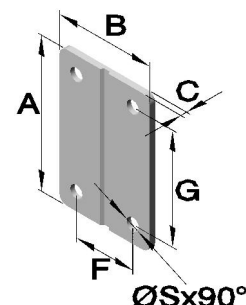
Art.no.:6527 (drilled and countersunk)

Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

Chemical resistance: oil, seawater, solvents and the most chemical substances.



| Article no. |        |       | Material      | Dimensions in mm |      |   |      |      |      |
|-------------|--------|-------|---------------|------------------|------|---|------|------|------|
| Series      | Colour |       |               | A                | B    | C | F    | G    | Ø S  |
|             | White  | Black |               |                  |      |   |      |      |      |
| 6527        | .01    | .03   | Polypropylene | 38.1             | 25.4 | 2 | 15.9 | 28.6 | 3.43 |

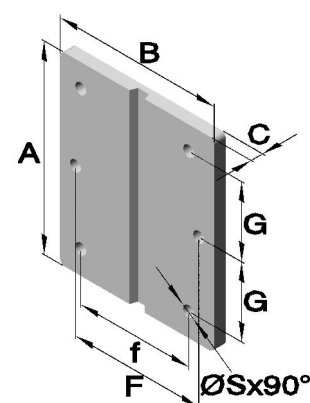
Art.no.:6528

Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

Chemical resistance: oil, seawater, solvents and the most chemical substances.



| Article no. |        |       | Material      | Dimensions in mm |      |      |      |      |      |      |
|-------------|--------|-------|---------------|------------------|------|------|------|------|------|------|
| Series      | Colour |       |               | A                | B    | C    | F    | f    | G    | Ø S  |
|             | White  | Black |               |                  |      |      |      |      |      |      |
| 6528        | .01    | .03   | Polypropylene | 76.2             | 63.5 | 4.76 | 50.8 | 44.4 | 57.1 | 4.65 |

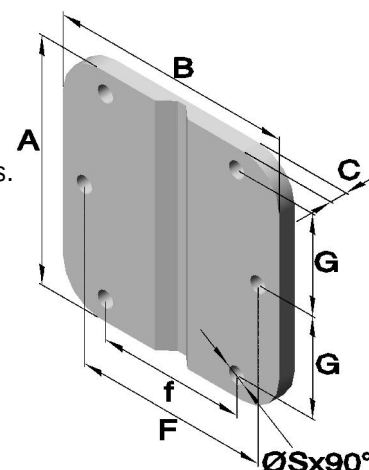
Art.nr.:6529 (drilled and countersunk)

Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

Chemical resistance: oil, seawater, solvents and the most chemical substances.



| Article no. |        |       | Material      | Dimensions in mm |      |      |      |    |      |     |
|-------------|--------|-------|---------------|------------------|------|------|------|----|------|-----|
| Series      | Colour |       |               | A                | B    | C    | F    | f  | G    | Ø S |
|             | White  | Black |               |                  |      |      |      |    |      |     |
| 6529        | 01     | 03    | Polypropylene | 88.9             | 88.9 | 6.35 | 71.4 | 54 | 36.5 | 6   |

## Plastic hinges

### hinges made of polyamide

Art. no.: **6531** (drilled and countersunk)

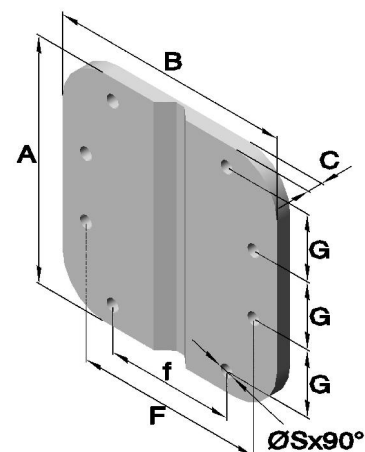
Technical information:

Temperature: - 40° C up to + 80°C.

Fixation with rivets, pins, nails and bars.

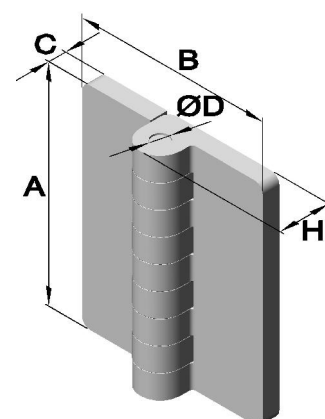
Chemical resistance: oil, seawater, solvents and most chemical substances.

| Article no. |        |       | Material      |       | Dimensions in mm |      |      |    |      |       |
|-------------|--------|-------|---------------|-------|------------------|------|------|----|------|-------|
| Series      | Colour |       |               |       |                  |      |      |    |      |       |
|             | White  | Black |               | A     | B                | C    | F    | f  | G    | Ø Pin |
| 6531        | 01     | 03    | Polypropylene | 101.6 | 101.6            | 6.35 | 79.4 | 54 | 27.8 | 8     |



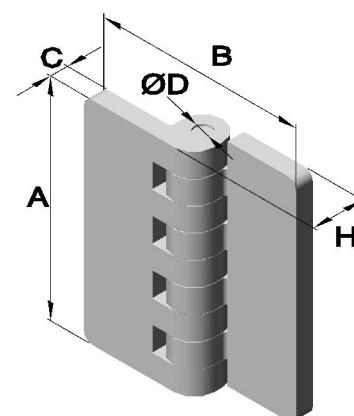
Art. no.: **6532**

| Article no. |        |      |       |             | Material      | Dimensions in mm |    |   |     |      |
|-------------|--------|------|-------|-------------|---------------|------------------|----|---|-----|------|
| Series      | Colour |      |       |             |               | A                | B  | C | Ø D | H    |
|             | White  | Grey | Black | Transparent |               |                  |    |   |     |      |
| 6532        | .01    | -    | .02   | -           | Polypropylene | 63,5             | 54 | 5 | 3,2 | 14,6 |
| 6532        | -      | -    | -     | .05         | Polycarbonate | 63,5             | 54 | 5 | 3,2 | 14,6 |



Art. no.: **6534**

| Article no. |        |      |       |             | Material      | Dimensions in mm |    |   |     |      |
|-------------|--------|------|-------|-------------|---------------|------------------|----|---|-----|------|
| Series      | Colour |      |       |             |               | A                | B  | C | Ø D | H    |
|             | White  | Grey | Black | Transparent |               |                  |    |   |     |      |
| 6534        | .01    | -    | .02   | -           | Polypropylene | 63,5             | 54 | 5 | 3,2 | 14,6 |
| 6534        | -      | -    | -     | .05         | Polycarbonate | 63,5             | 54 | 5 | 3,2 | 14,6 |

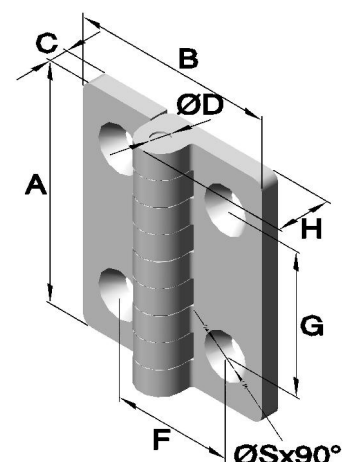


## Plastic hinges

### hinges made of polyamide

Art. no.: 6535 (drilled and countersunk)

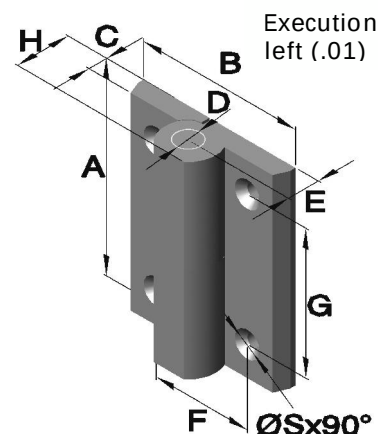
| Article no. |        |              | Dimensions in mm |    |   |     |    |      |      |       |
|-------------|--------|--------------|------------------|----|---|-----|----|------|------|-------|
| Series      | Colour | Material     | A                | B  | C | Ø D | F  | G    | H    | Ø Pin |
| 6535        | Nature | Polyethylene | 63,5             | 54 | 5 | 3,2 | 32 | 38,1 | 14,6 | 6,2   |



Art. no.: 6124 (drilled and countersunk)  
with stainless steel pin without intermediate ring,

Left completion (.01) is inverse to right completion (.02).  
Maximum load: 40kg

| Article no. |           |       | Material | Dimensions in mm |    |   |     |      |    |    |   |   |
|-------------|-----------|-------|----------|------------------|----|---|-----|------|----|----|---|---|
| Series      | Execution |       |          | Polyamide        | A  | B | C   | Ø D  | E  | F  | G | H |
|             | Left      | Right |          |                  |    |   |     |      |    |    |   |   |
| 6124        | .01       | .02   | .80      | 74               | 60 | 7 | 9.5 | 11.5 | 36 | 51 | 5 | 5 |



# Plastic hinges

hinges made of polyamide

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## Torque hinges/ detent hinges



Art.: 6871



Art.: 6875



Art.: 6871.04



Art.: 6871.05



Art.: 6876



Art.: 150.SK-T-ZA



Art.: 150.SK-T-ZA



Art.: 150.HG-TA



Art.: 150.HG-IT MC



Art.: 150.SF-TH



Art.: 150.HG-TS



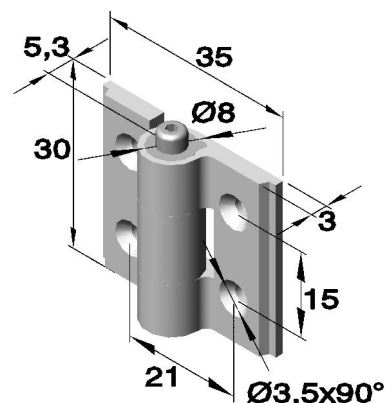
Art.: 150.HG-ITS



Art.: 150.HG-ITM

Art. no.: 6871 (drilled and countersunk)

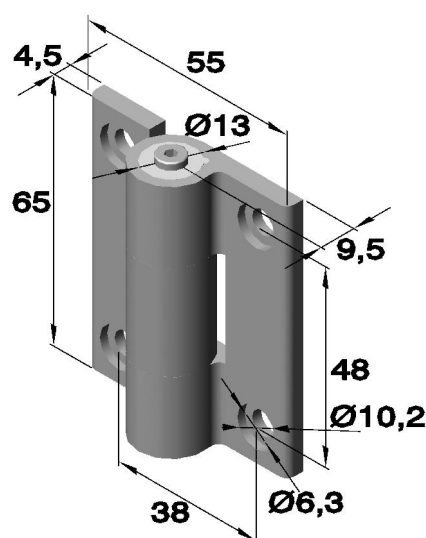
Also available as:  
Spring hinge see chapter „Spring hinges “  
Detent hinge see chapter „Torque and detent hinges “



| Article no. |           |              |              |              |
|-------------|-----------|--------------|--------------|--------------|
| Series      | Execution | Material     |              |              |
|             |           | Raw          | Colourless   | Black        |
|             |           | Alu. 6060 T5 | Alu. 6060 T5 | Alu. 6060 T5 |
| 6871        | .01       | .70          | -            | .77          |
| 6871        | .02       | -            | .70          | -            |

Art. no.: 6871 (drilled and countersunk)

Also available as:  
 Free running hinge see chapter “Hinges”  
 Spring hinge see chapter „Spring hinges “  
 Detent hinge see chapter „Torque and detent hinges “



| Article no. |           |                 |                 |
|-------------|-----------|-----------------|-----------------|
| Series      | Execution | Material        |                 |
|             |           | Colourless      | Black           |
|             |           | Alu. 6060<br>T5 | Alu. 6060<br>T5 |
| 6871        | 04        | 70              | 77              |

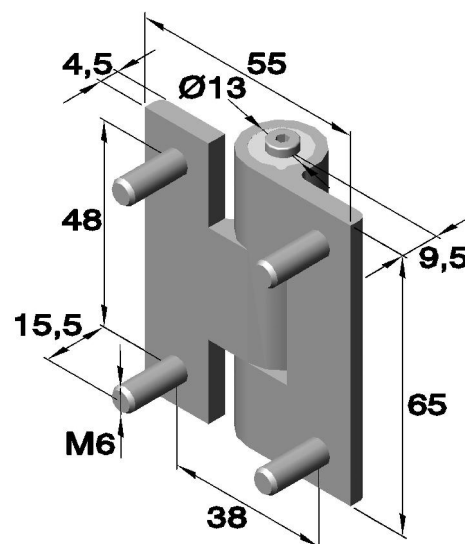
# Torque hinges

Art. no.: **6871** (drilled and countersunk)

Holding torque: 0 - 5 Nm max.  
Set screw: Hexagon socket 4  
Temperature resistance: -20 °C up to + 80 °C

Max. tensile strength: 6000 N  
Max. shear strength: 5000 N

| Article no. |           |                 |                 |
|-------------|-----------|-----------------|-----------------|
| Series      | Execution | Material        |                 |
|             |           | Raw             | Black           |
|             |           | Alu. 6060<br>T5 | Alu. 6060<br>T5 |
| 6871        | .05       | .70             | .77             |



Art. no. **6876** (drilled and countersunk)

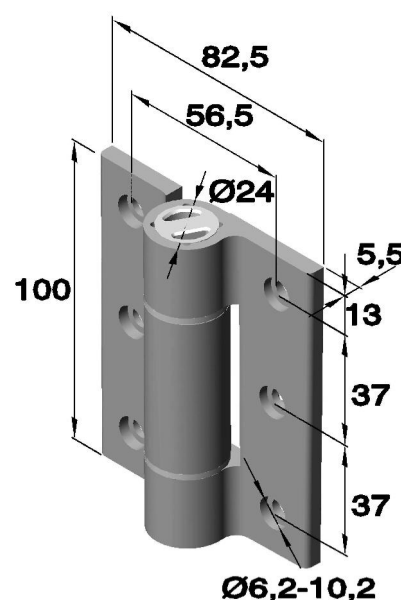
Soft-closing hinge  
Opens and closes steamed.  
Feature till 115° guaranteed  
Torque per Pair: 2,5 to 4,5 N.m

Also available as:

Free running hinge see chapter "Hinges"

Spring hinge see chapter "Spring hinges"

| Article no. |           |                      |  |
|-------------|-----------|----------------------|--|
| Series      | Execution | Material             |  |
|             |           | Anodized colourless  |  |
|             |           | Aluminium 6060<br>T5 |  |
| 6876        | .06       | .71                  |  |



## Torque hinges

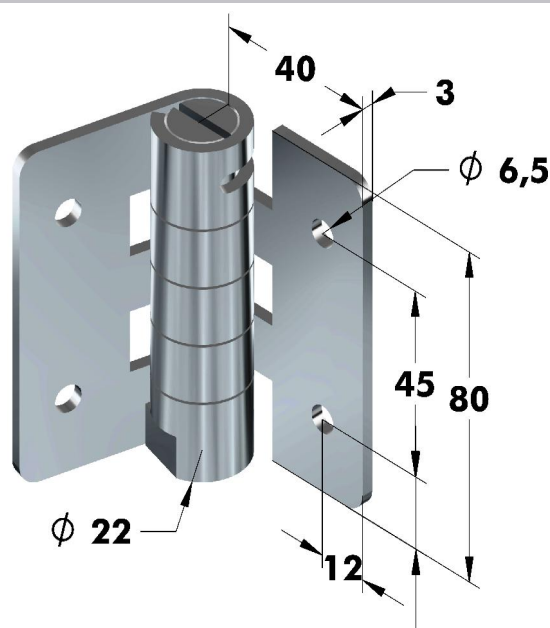
### Art. no. 6877 (drilled)

Soft-Closing hinge  
Opens and closes steamed

Feature till 115° guaranteed  
Torque per Pair: 2,2 bis 3,0 N.m

Operating temperature: 0 °C- 40 °C

| Article no. |           |                 |
|-------------|-----------|-----------------|
| Series      | Execution | Material        |
|             |           | Raw             |
| 6877        | .01       | Stainless steel |
|             |           | .30             |

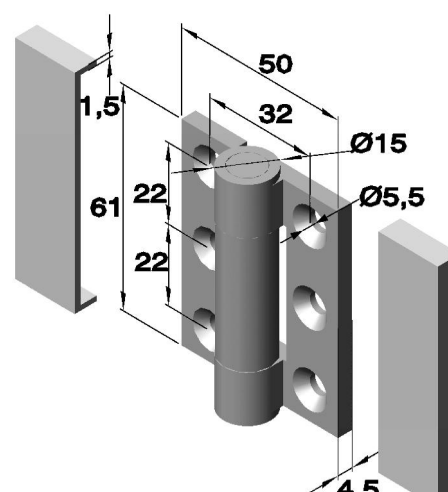


### Art. no.: 150.SK-T-ZA (drilled and countersunk) with constant torque.

Cover made of chrome plated plastic.

The declared torque could boast tolerances.

| Article no. |           |                        | Torque<br>in N.m |
|-------------|-----------|------------------------|------------------|
| Series      | Execution | Material               |                  |
|             |           | Chrome plated<br>Zamak |                  |
| 150.SK-T-ZA | 1CR       | .03                    | 2,9              |
| 150.SK-T-ZA | 2CR       | .03                    | 1,9              |
| 150.SK-T-ZA | 3CR       | .03                    | 1,5              |



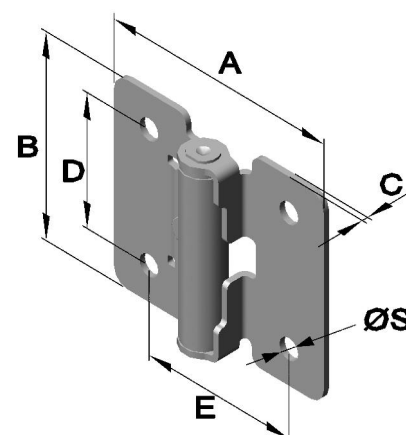
### Art. no.: 150.HG-TS

with constant torque.

Operating temperature: -10 °C ~ 50 °C  
Operating humidity: ~ 90% RH (oder weniger)

The declared torque could boast tolerances.

| Article no. |           |                 | Dimension in mm |    |     |    |    |     | Torque  |
|-------------|-----------|-----------------|-----------------|----|-----|----|----|-----|---------|
| Series      | Execution | Material        | A               | B  | C   | D  | E  | ØS  | in N.m. |
|             |           | Raw             |                 |    |     |    |    |     |         |
|             |           | Stainless steel |                 |    |     |    |    |     |         |
| 150.HG-TS   | 03        | .30             | 36              | 32 | 1,2 | 18 | 21 | 4,3 | 0,35    |
|             | 07        | .30             | 48              | 40 | 1,2 | 26 | 32 | 4,3 | 0,7     |
|             | 15        | .30             | 48              | 50 | 2   | 36 | 32 | 4,3 | 1,5     |



## Torque hinges

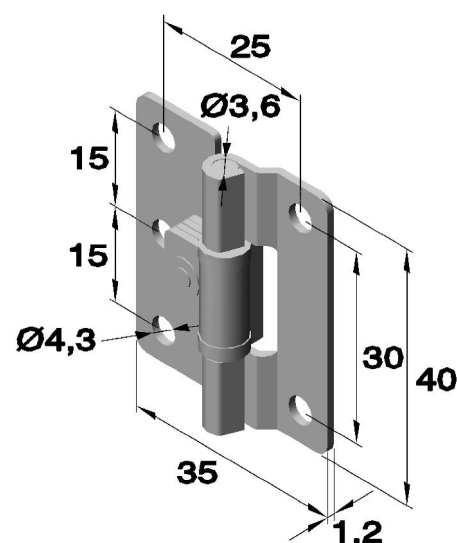
Art.no.: 150.SFTH (drilled)

with constant torque.

Operating temperature: -20°C ~ 60°C

The declared torque could boast tolerances.

| Article no. |           |                        | Torque<br>in N.m. |
|-------------|-----------|------------------------|-------------------|
| Series      | Execution | Material               |                   |
|             |           | Raw<br>Stainless steel |                   |
| 150.SFTH    | -02-5     | .30                    | 0,5               |



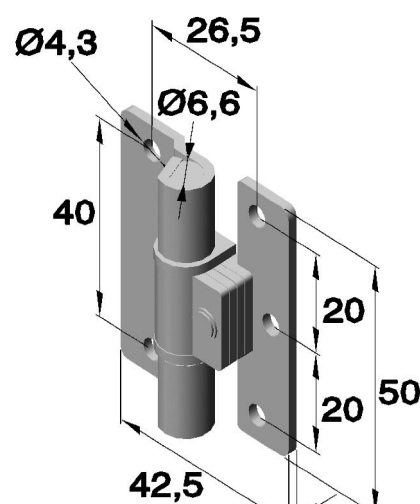
Art.no.: 150.SFTH (drilled)

with constant torque.

Operating temperature: -20°C ~ 60°C

The declared torque could boast tolerances.

| Article no. |           |                        | Torque<br>in N.m. |
|-------------|-----------|------------------------|-------------------|
| Series      | Execution | Material               |                   |
|             |           | Raw<br>Stainless steel |                   |
| 150.SFTH    | -03-9     | .30                    | 0,9               |
|             | -03-19    | .30                    | 1,9               |



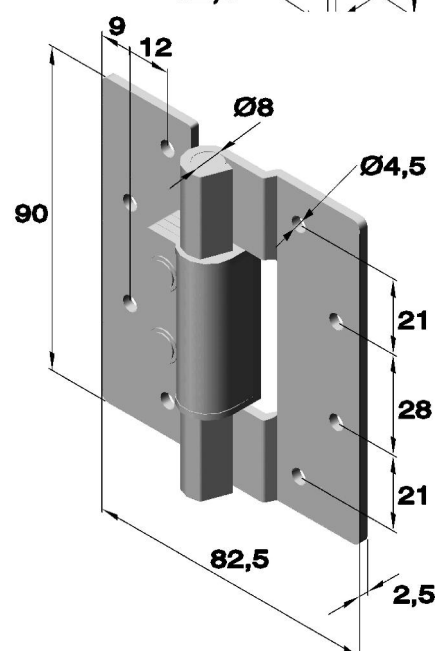
Art.no.: 150.SFTH (drilled)

with constant torque.

Operating temperature: -20°C ~ 60°C

The declared torque could boast tolerances.

| Article no. |           |                        | Torque<br>in N.m. |
|-------------|-----------|------------------------|-------------------|
| Series      | Execution | Material               |                   |
|             |           | Raw<br>Stainless steel |                   |
| 150.SFTH    | -05-35    | .30                    | 3,4               |
|             | -05-58    | .30                    | 5,7               |





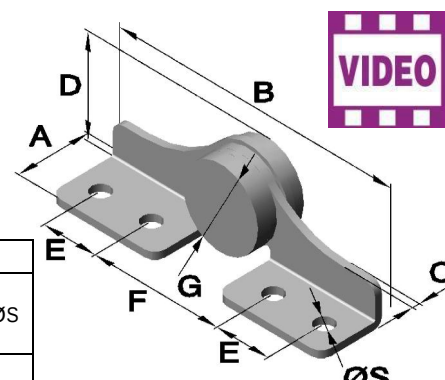
# Torque hinges

Art.no.: **150.HG-TA** (drilled)  
with constant torque.

Operating temperature: 0°C ~ 40°C

The declared torque could boast tolerances.

| Article no. |             |                 | Torque<br>in N.m. | Dimension in mm |    |   |    |    |    |     |
|-------------|-------------|-----------------|-------------------|-----------------|----|---|----|----|----|-----|
| Series      | Execution   | Material        |                   | A               | B  | C | D  | E  | F  | ØS  |
|             |             | Raw             |                   |                 |    |   |    |    |    |     |
|             |             | Stainless steel |                   |                 |    |   |    |    |    |     |
| 150.HG-TA   | 20L (Left)  | .30             | 2                 | 18,5            | 66 | 2 | 18 | 13 | 27 | 4,3 |
|             | 20R (Right) | .30             |                   |                 |    |   |    |    |    |     |
|             | 30L (Left)  | .30             | 3                 |                 |    |   |    |    |    |     |
|             | 30R (Right) | .30             |                   |                 |    |   |    |    |    |     |
|             | 45L (Left)  | .30             | 4,5               |                 |    |   |    |    |    |     |
|             | 45R (Right) | .30             |                   |                 |    |   |    |    |    |     |

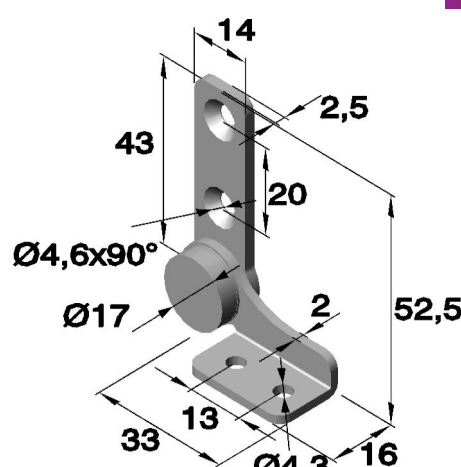


Art. no.: **150.HG-TB** (perforated and countersunk)  
with constant torque.

Operating temperature: 0°C ~ 40°C

The declared torque could boast tolerances.

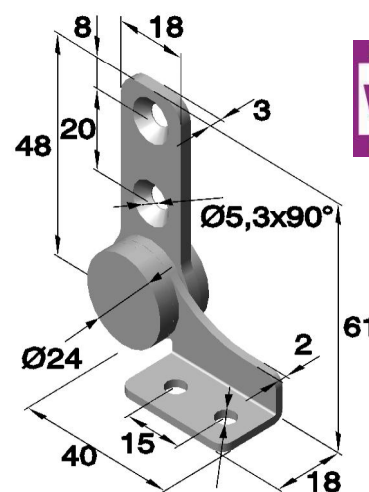
| Article no. |             |                        | Torque<br>in N.m. |
|-------------|-------------|------------------------|-------------------|
| Series      | Execution   | Material               |                   |
|             |             | Raw<br>Stainless steel |                   |
| 150.HG-TB   | 7L (Left)   | .30                    | 0,7               |
|             | 7R (Right)  | .30                    |                   |
|             | 20L (Left)  | .30                    | 2                 |
|             | 20R (Right) | .30                    |                   |
|             | 30L (Left)  | .30                    | 3                 |
|             | 30R (Right) | .30                    |                   |



Art. no.: **150.HG-TB** (perforated and countersunk)  
with constant torque.

The declared torque could boast tolerances.

| Article no. |             |                        | Torque<br>in N.m. |
|-------------|-------------|------------------------|-------------------|
| Series      | Execution   | Material               |                   |
|             |             | Raw<br>Stainless steel |                   |
| 150.HG-TB   | 45L (Left)  | .30                    | 4,5               |
|             | 45R (Right) | .30                    |                   |

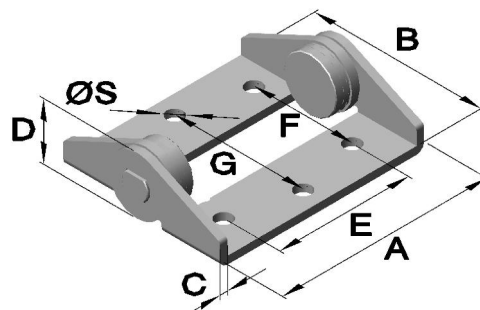




## Torque hinges

Art. no.: **150.HG-IT** (perforated)  
with constant torque.

Operation temperature: -10°C ~ 50°C  
Opening angle: ca. 190°

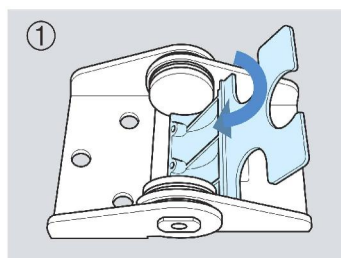


The declared torque could boast tolerances.

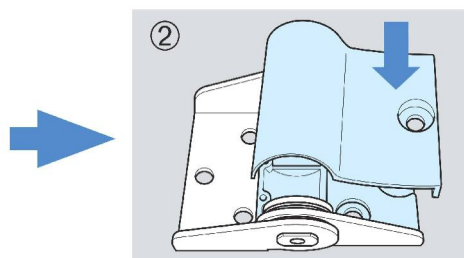
| Article no. |           |                        |                   | dimension in mm |    |   |      |      |    |    |     |
|-------------|-----------|------------------------|-------------------|-----------------|----|---|------|------|----|----|-----|
| Series      | Execution | Material               | Torque<br>in N.m. | A               | B  | C | D    | E    | F  | G  | ØS  |
|             |           | Raw<br>Stainless steel |                   |                 |    |   |      |      |    |    |     |
| 150.HG-IT   | S25       | .30                    | 2,5               | 54              | 44 | 2 | 15,5 | 34   | 26 | 34 | 4,3 |
|             | S35       | .30                    | 3,5               |                 |    |   |      |      |    |    |     |
|             | SF        | .30                    | Free running      |                 |    |   |      |      |    |    |     |
|             | M50       | .30                    | 5,0               | 54              | 80 | 2 | 25   | 34,8 | 36 | 66 | 5,3 |
|             | M70       | .30                    | 7,0               |                 |    |   |      |      |    |    |     |
|             | MF        | .30                    | Free running      |                 |    |   |      |      |    |    |     |

## Cover for Art.no.: 150.HG-IT

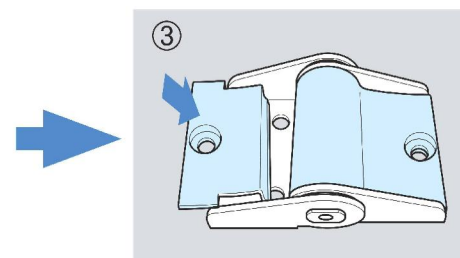
| Article no. |           | Material |
|-------------|-----------|----------|
| Serie       | Execution | Silver   |
| 150.HG-IT   | SC        | ABS      |
| 150.HG-IT   | MC        | ABS      |



1. Insert the cover A under the hinge shaft.



2. Put the cover B on the cover A.



3. Put the cover C.

## Torque hinges

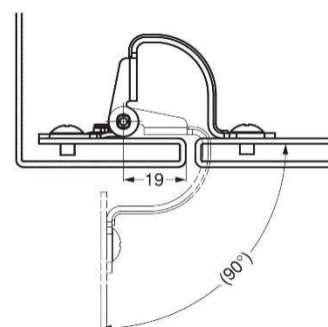
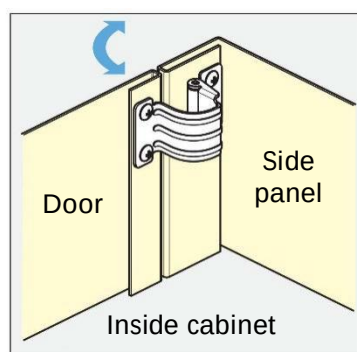
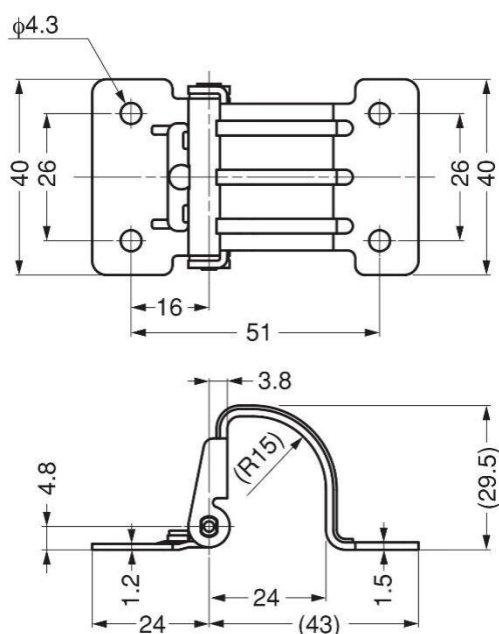
### Art.no. 6493 (perforated)

Hinge for invisible fence with constant torque.

Only for indoor applications.  
Can be used horizontally or vertically.

The declared torque could boast tolerances.

| Article no |           |                 | Torque<br>in N.m. |
|------------|-----------|-----------------|-------------------|
| Series     | Execution | Material        |                   |
|            |           | Raw             |                   |
|            |           | Stainless steel |                   |
| 6493       | .01       | .33             | 0,7               |



## Torque hinges

### Art. Nr.: 150.HG-TUWA (perforated)

Concealed hinge  
with fence and constant torque.

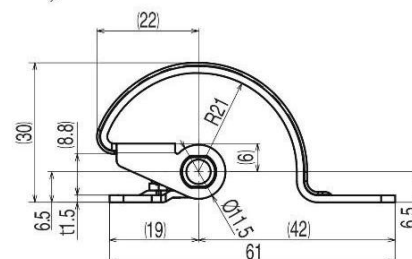
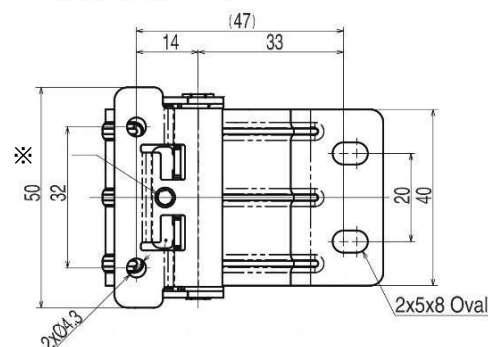
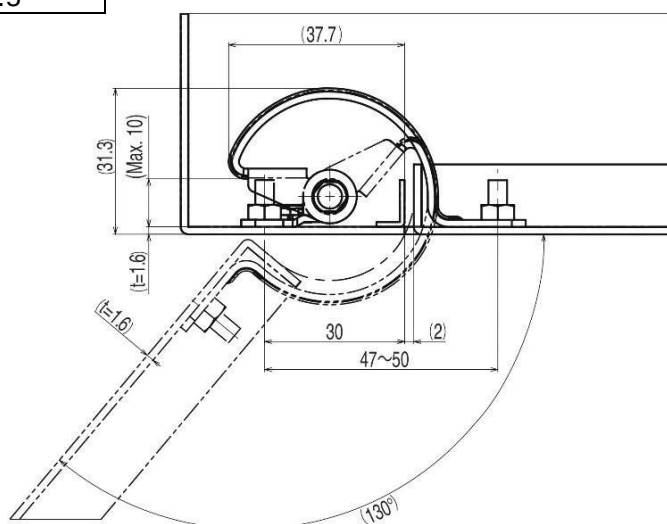
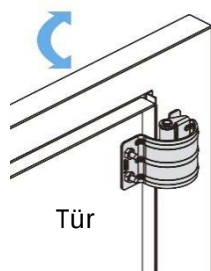
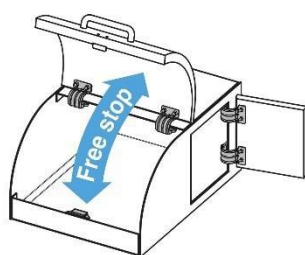
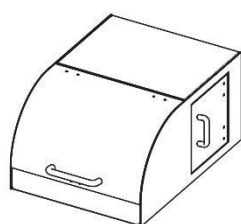
Opening angle (130°).

Can be used horizontally or vertically.



| Article no  |           |                             | Torque<br>in Nm |
|-------------|-----------|-----------------------------|-----------------|
| Series      | Execution | Material                    |                 |
|             |           | Polished<br>Stainless steel |                 |
| 150.HG-TUWA | 07        | .33                         | 0.7             |
| 150.HG-TUWA | 15        | .33                         | 1.5             |

#### Anwendungsbeispiel



## Torque hinges

Art.no.: 150.HG-T30.S15 (perforated)

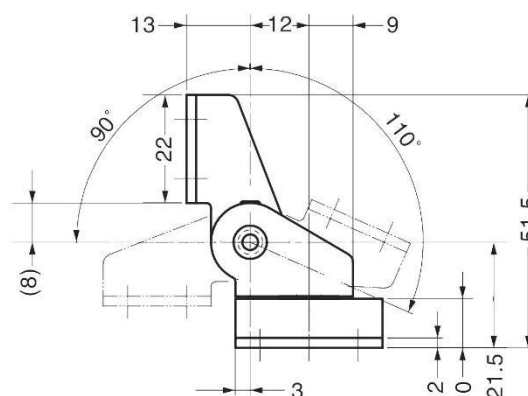
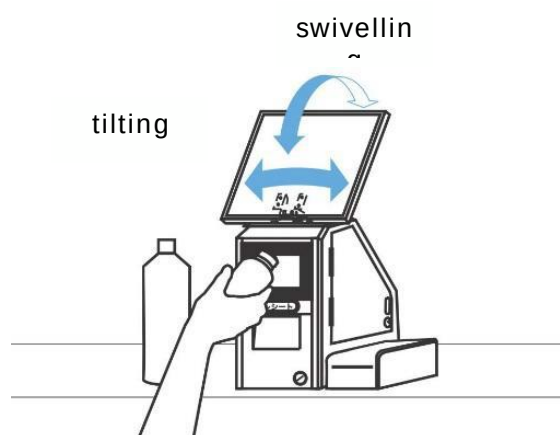
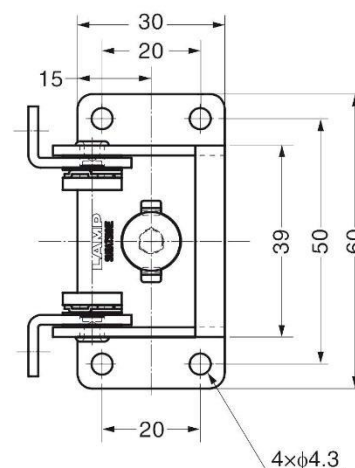
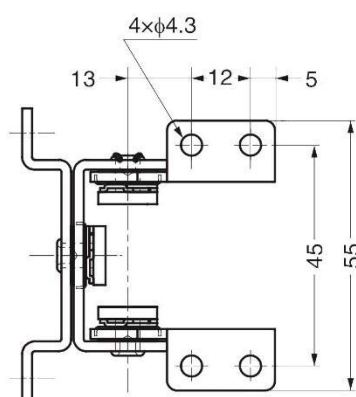
Dual axis torque hinge  
Operating temperature: 0°C ~ 40°C

Provides torque stability in both directions.

Suitable for monitor screens.



| Series         | Article no.     |          | Torque N/m |            |
|----------------|-----------------|----------|------------|------------|
|                | Material        | Polished |            |            |
|                | Stainless steel |          | tilting    | swivelling |
| 150.HG-T30.S15 | .30             |          | 3          | 1,5        |



## Torque hinges

Art.no.: 150.HG-T70.S30 (perforated and countersunk)



Dual axis torque hinge

Operating temperature: 0°C ~ 40°C

Provides torque stability in both directions.

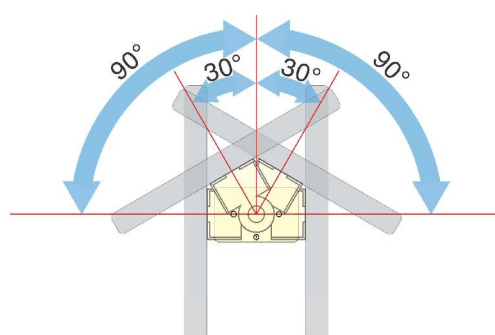
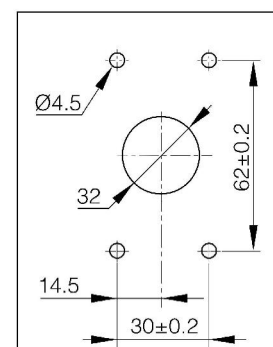
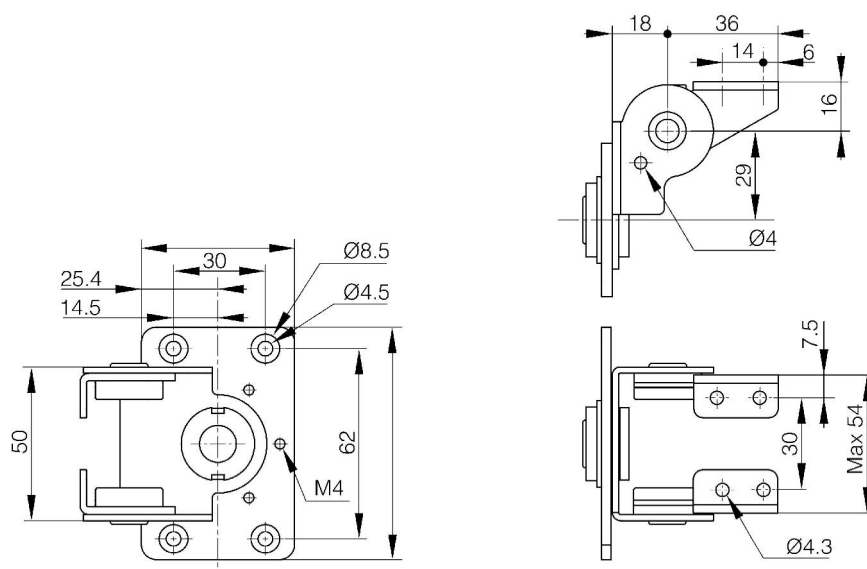
Tilting:  $\pm 30^\circ$ ,  $\pm 90^\circ$

Swivelling:  $0^\circ \sim 120^\circ$

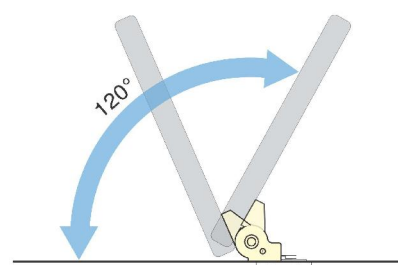
Suitable for monitor screens.



| Series         | Article no.     |            |            |
|----------------|-----------------|------------|------------|
|                | Material        | Torque N/m |            |
|                | Polished        |            |            |
| 150.HG-T70.S30 | Stainless steel | tilting    | swivelling |
|                | .30             | 7          | 3          |



tilt



swivel

## Torque hinges

Art. no.: 150. KA-T100S50

Monitor bracket with torque and auxiliary lock

Swivelling 180 °, Tilting 40 °.

Applicable monitor size: 12 ~ 22,9 Zoll (up to about 10,0 kg)

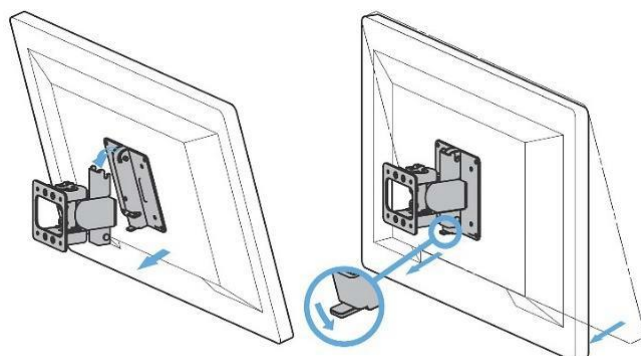
Can be quickly installed and removed.

Lock temporarily releases if a heavy load is applied when locked.

Do not forcibly move the monitor after applying the auxiliary lock!

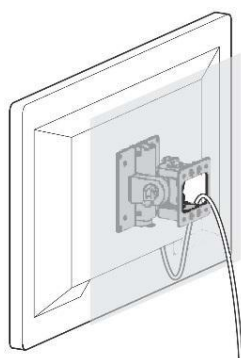
After installing the monitor, make sure that the release lever is locked.

Do not operate continuously.

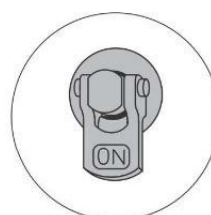
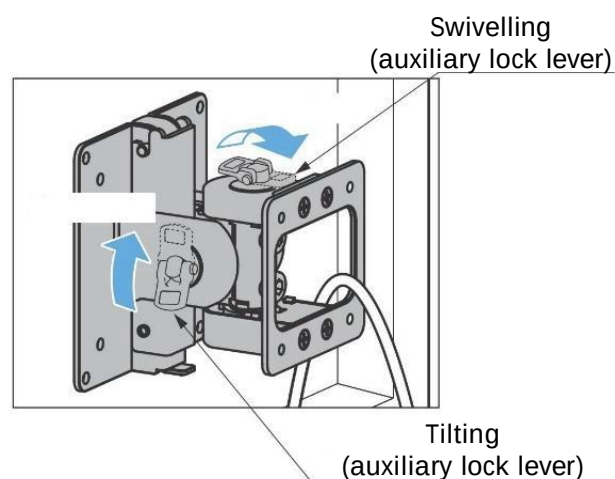


The monitor be installed with one touch.

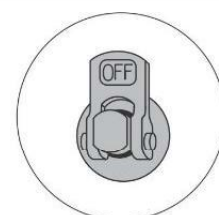
Push down the release lever and lift the monitor, then the monitor can be removed.



Wire holes allows you to put power cable and monitor cable out of the mounting surface.



Locked



Released

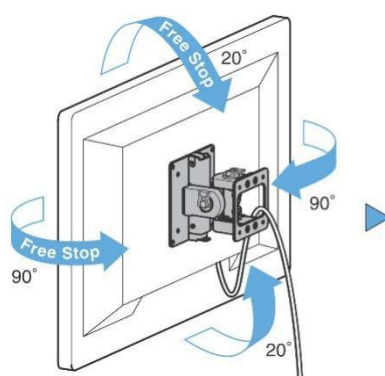


## Torque hinges

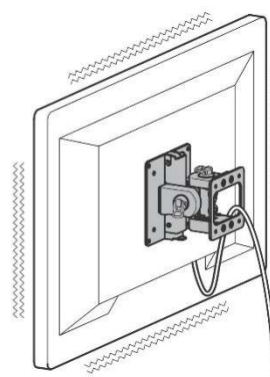
Art. no.: 150. KA-T100S50

Monitor bracket with torque and auxiliary lock

Released



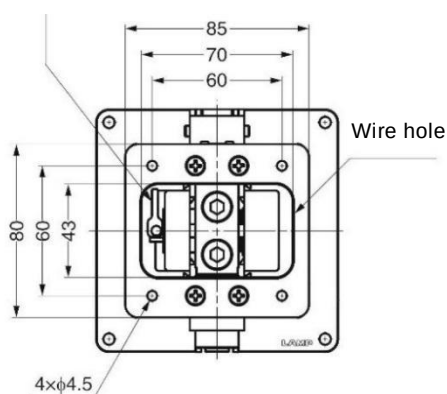
Locked



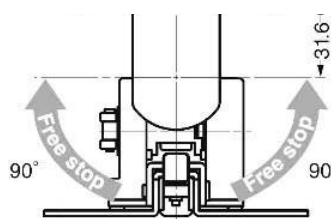
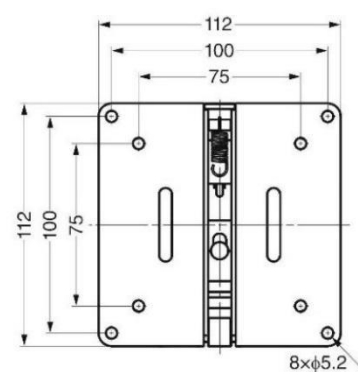
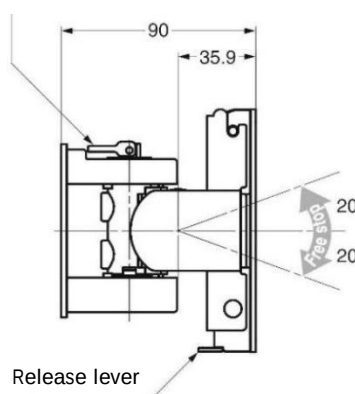
Can hold at any angle within  $\pm 20^\circ$  in tilting and  $\pm 90^\circ$  in swivelling.

Keeps the monitor in position even while subject.

Tilting  
Auxiliary lock lever  
(released)



Swivelling  
Auxiliary lock lever  
(released)



## Torque hinges

Art. no.: 150.KA-150

Monitor bracket with constant torque.  
Including hex key (for fixing the mounting base)

Monitor mount is used for moving  
and adjusting monitor position.

Durability varies depending on operating environment and  
frequency.

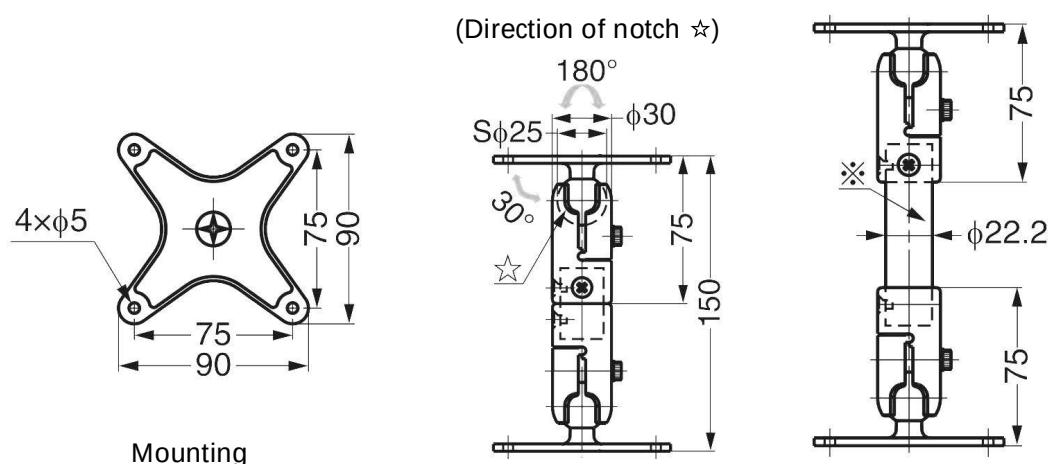
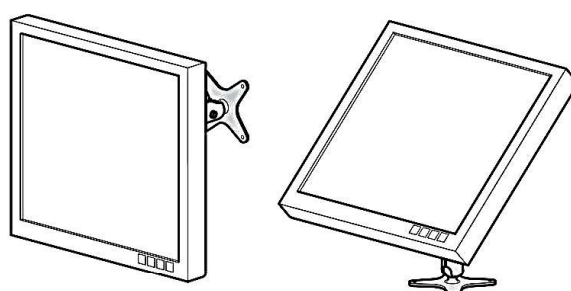
Total length can be changed by adjusting the pole length.  
Ball-shaped holding part allows adjusting to any angle  
(loosen the screw and adjust).

Do not apply load on display when using!

Other length on request.



on request



## Torque hinges

### Art. no.: 150. TV

Monitor bracket „for wall mounting“

Used to fix a small display on the wall  
(max. 8 kg)

Adjustable type (150.TV-410SK)  
can adjust the angle of the display about 20 °  
from the vertical state to the front.

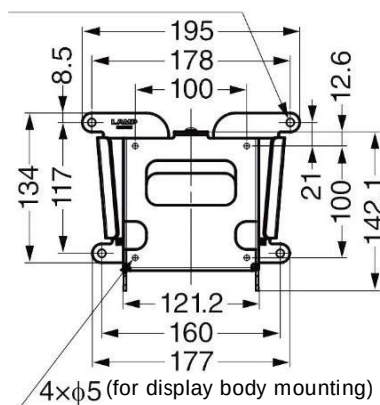
Durability varies depending on operating enviroment  
and frequency.

Do not apply load on dirsplay when using!

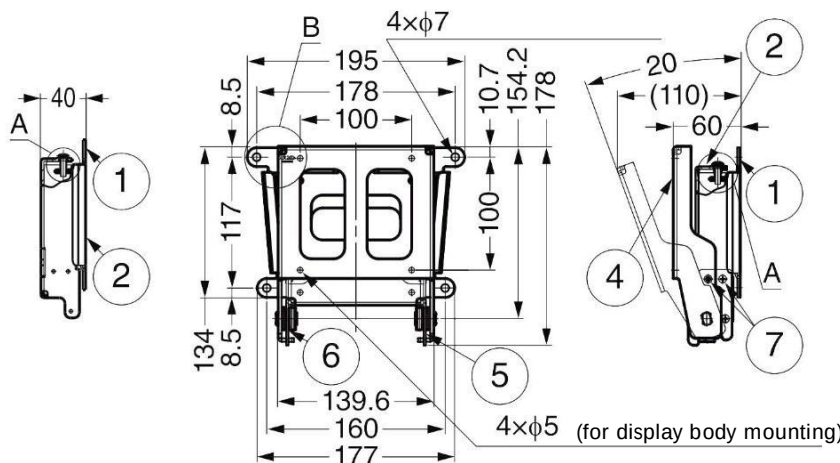
Fixed type:  
150.TV-400SK



Adjustable type:  
150.TV-410SK

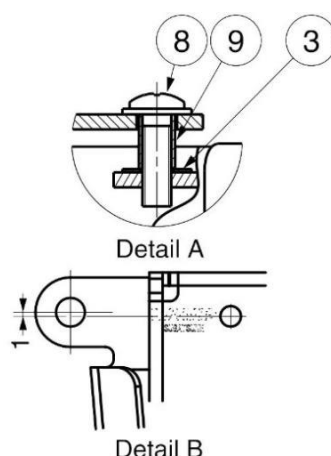


150.TV-400SK



150.TV-410SK

|   |                                |
|---|--------------------------------|
| 1 | Bracket                        |
| 2 | Fixed plate                    |
| 3 | Fall- preventing washer        |
| 4 | Adjustable plate               |
| 5 | Hinge R                        |
| 6 | Hinge L                        |
| 7 | Countersunk head machine screw |
| 8 | Washer faced pan head screw    |
| 9 | Socket                         |



Installation (adjustable type)



## Torque hinges

Art. no.: **150.HG-TQJ100** (perforated)

Adjustable one way torque hinge.

Operating temperature: 0 ~ 40 ° C

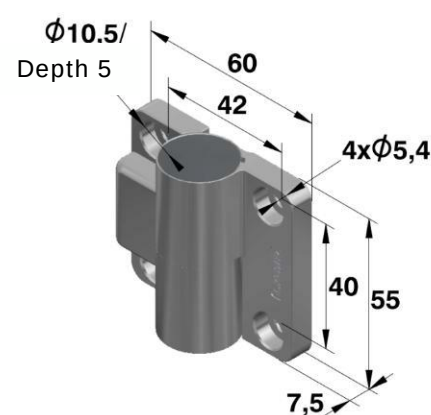
Opening angle ca. (248°).

Allows for frictionless handling of the door in the opposite direction.

Use a hex key (nominal size 5) for torque adjustment.

Use all mounting holes.

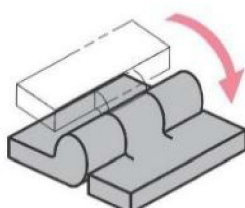
Do not remove the torque adjustment screw!



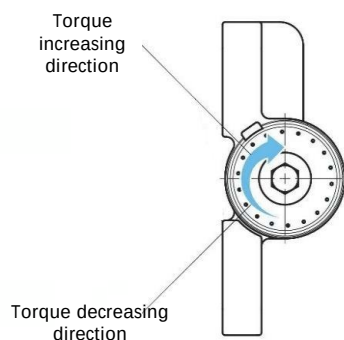
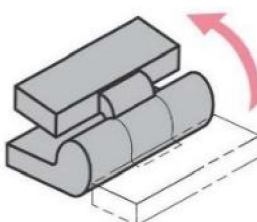
| Article no.   |           |                       | Torque<br>in Nm |
|---------------|-----------|-----------------------|-----------------|
| Series        | Execution | Material              |                 |
|               |           | Zamak<br>Satin chrome |                 |
| 150.HG-TQJ100 | -A        | .53                   | 0~10            |
| 150.HG-TQJ100 | -B        | .53                   |                 |

Torque working direction

Opening  
150.HG-TQJ100-A



Closing  
150.HG-TQJ100-B



Application example



Since torque is adjustable from 0 to 10Nm, applicable to various doors.

## Torque hinges

Art. no.: 150.HG-ITJ4080 (perforated)

with adjustable torque

Operating temperature: 0 ~ 40 ° C

Opening angle: (265°).

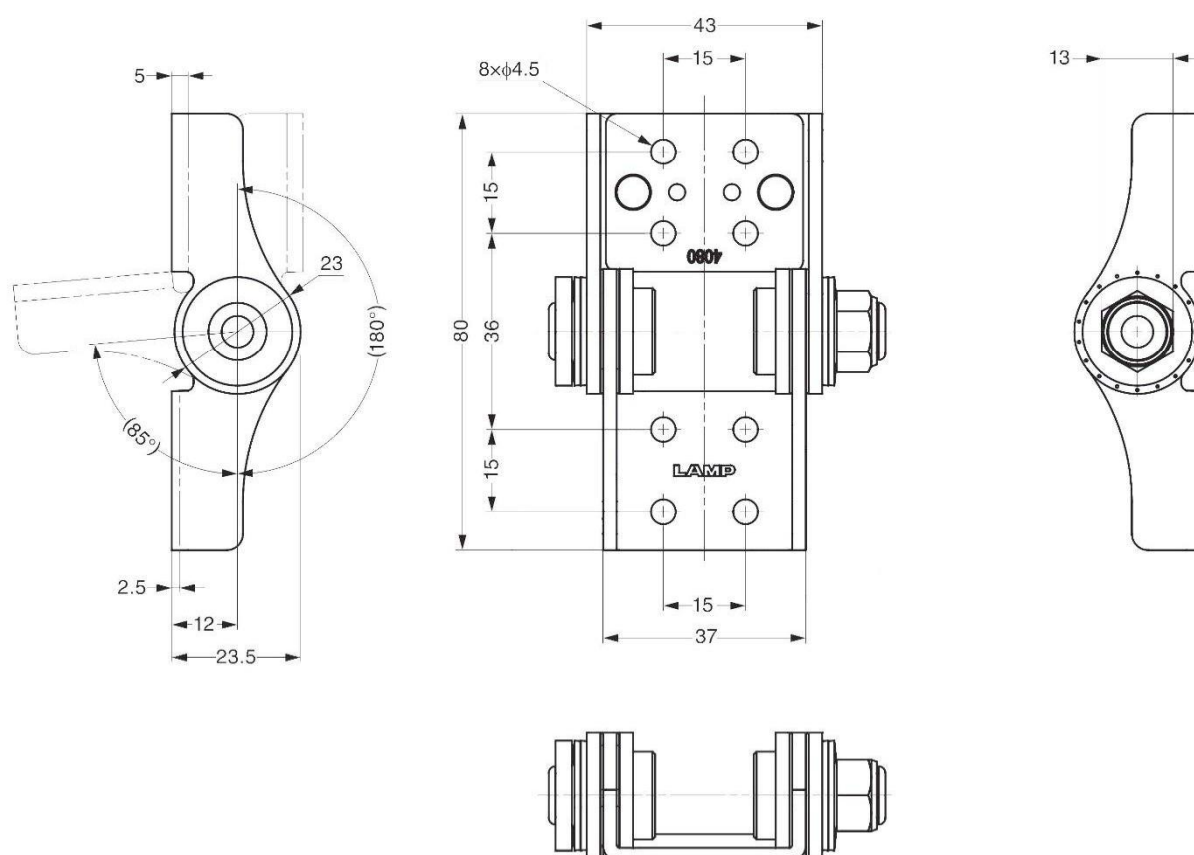
To prevent accidental fall of door or lid, minimum torque is set at 4Nm.

Use a spanner (nominal size 13) for torque adjustment.

Do not forcibly remove the torque adjustment nut!



| Article no.    |                 | Torque in Nm |
|----------------|-----------------|--------------|
| Series         | Material        |              |
| 150.HG-ITJ4080 | Barrel polished | 4 ~ 8        |
|                | Stainless steel |              |
|                | .30             |              |





## Torque hinges

Art. no.: 150.HG-ITHP (perforated)

with constant torque

Operating temperature: 0 ~ 100 ° C

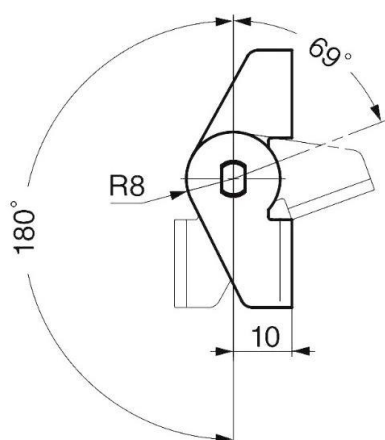
Opening angle: ca. (269°).

Suitable for use in heat-generating environment.

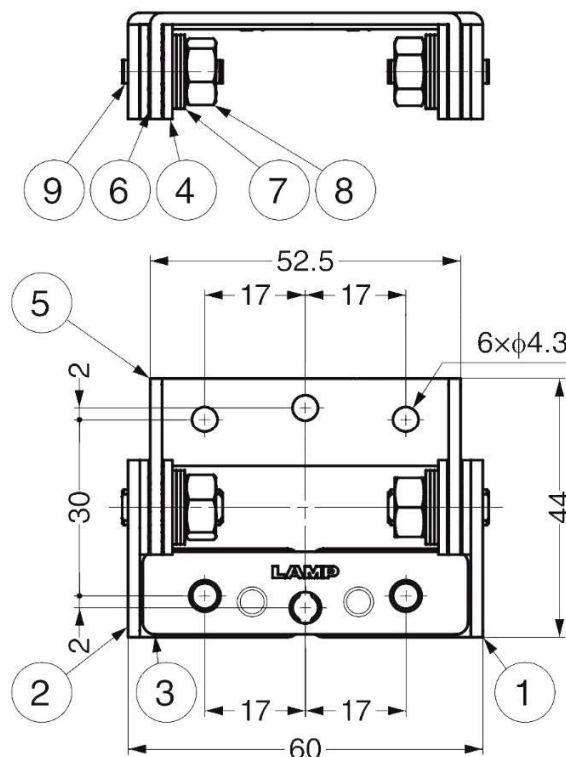
Torque may decrease during and after heating.



| Article no. |           |                                    | Torque<br>in Nm |
|-------------|-----------|------------------------------------|-----------------|
| Series      | Execution | Material                           |                 |
|             |           | Barrel polished<br>Stainless steel |                 |
| 150.HG-ITHP | 07        | .30                                | 0.7             |
| 150.HG-ITHP | 15        | .30                                | 1.5             |
| 150.HG-ITHP | 30        | .30                                | 3.0             |



|   |                    |
|---|--------------------|
| 1 | Base L             |
| 2 | Base R             |
| 3 | Connecting bracket |
| 4 | Thrust plate       |
| 5 | Movable plate      |
| 6 | Ball               |
| 7 | Spring washer      |
| 8 | Hexagon nut        |
| 9 | Shaft              |





## Torque hinges

Art. no.: 150.HG-TLS30-50-300 (perforated)

Piano hinge with constant torque.

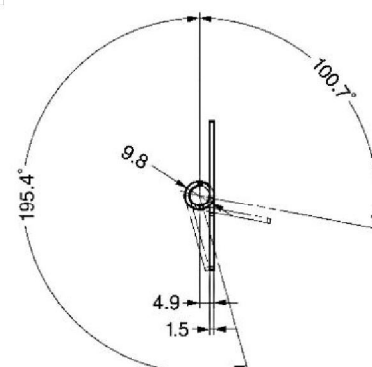
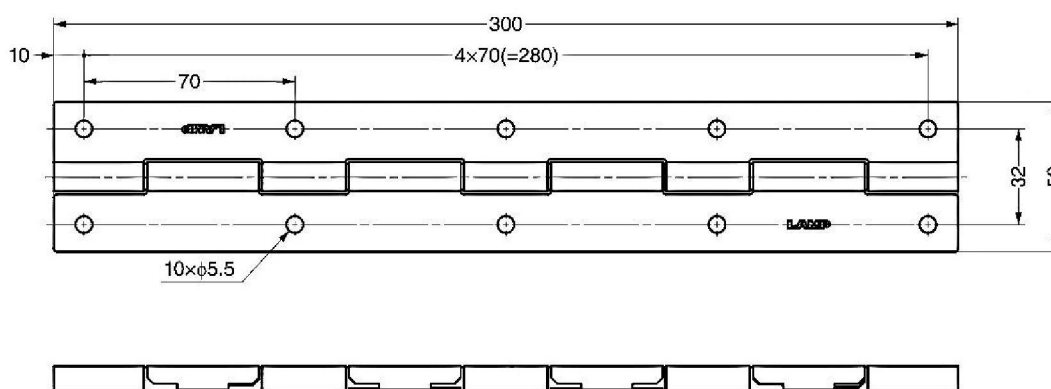
Opening angle ca. (295°).

Can not be used by cutting the length!

Other length on request.

| Article no.         |                                |                 |
|---------------------|--------------------------------|-----------------|
| Series              | Material                       | Torque<br>in Nm |
|                     | unbehandelt<br>Stainless steel |                 |
| 150.HG-TLS30-50-300 | .30                            | 3               |

### Application example



## Torque hinges

Art. no.: 150.HG-DTB (perforated and countersunk)



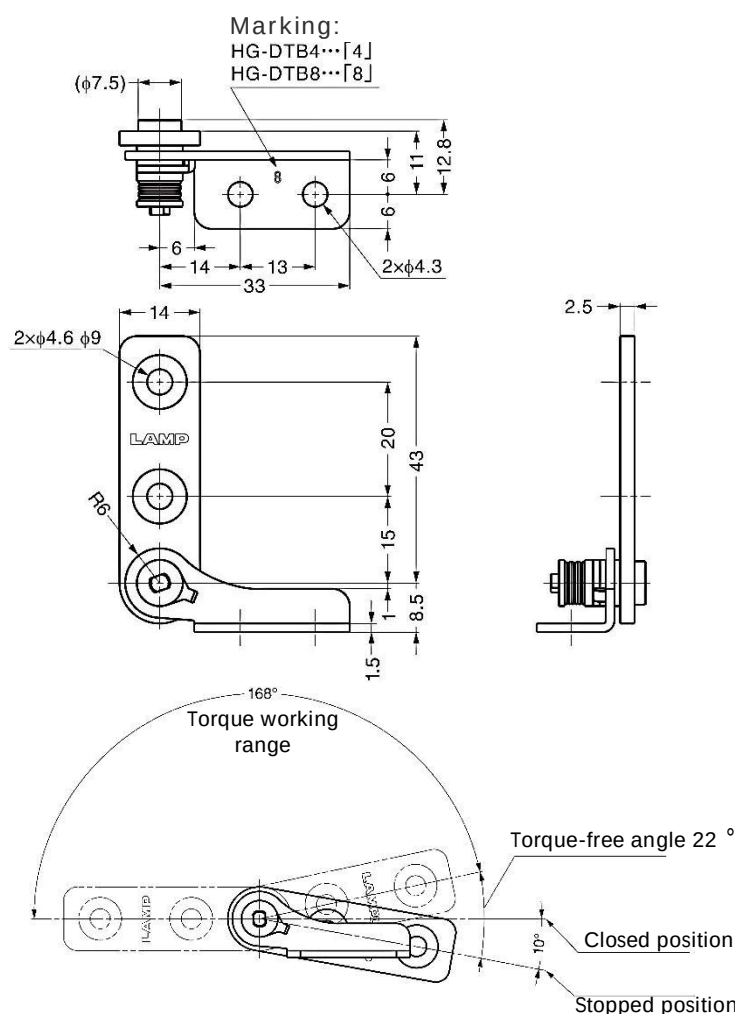
Operating temperature: 0 ~ 40 ° C  
Opening angle ca. (168°).

For pair using: Please use the same torque in both hinges.



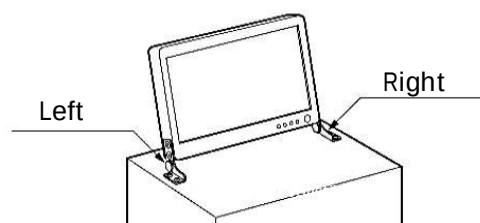
| Article no. |             |                                         | Torque<br>in Nm | Detent moment*<br>in Nm |
|-------------|-------------|-----------------------------------------|-----------------|-------------------------|
| Series      | Execution   | Material<br>Polished<br>Stainless steel |                 |                         |
| 150.HG-DTB  | 4-R (Right) | .33                                     | 0.4             | 0.7                     |
| 150.HG-DTB  | 4-L (Left)  | .33                                     |                 |                         |
| 150.HG-DTB  | 8-R (Right) | .33                                     | 0.8             | 1.5                     |
| 150.HG-DTB  | 8-L (Left)  | .33                                     |                 |                         |

\* Torque required to release detent.

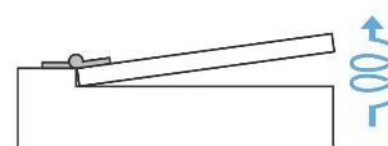


Left handed type shown. Right-handed type is symmetrical.

Application example



Detent function prevents spring-back in closed position.



## Torque hinges

Art. no.: 150.HG-TASJ40 (perforated)

with adjustable Torque

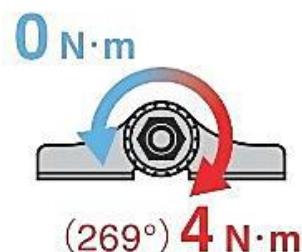
Operating temperature: 0 ~ 40 ° C

Opening angle ca. (269°).

Use a spanner (nominal size 13) for torque adjustment.

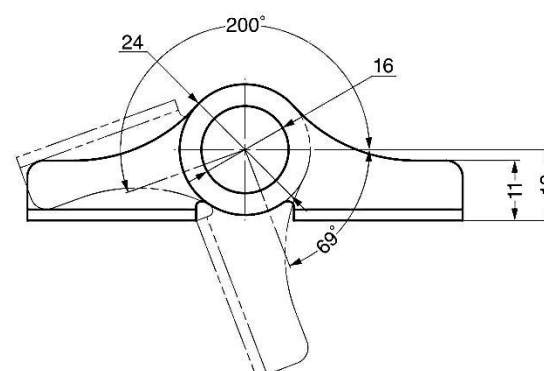
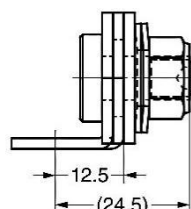
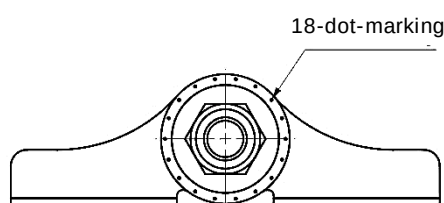
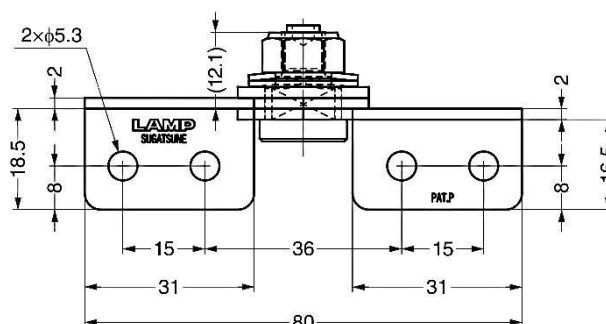
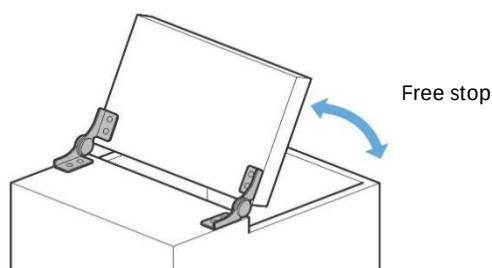
The factory setting of torque is 4,0 Nm

Do not forcibly remove the torque adjustment nut!



| Article no.   |           |                             | Torque<br>in Nm |
|---------------|-----------|-----------------------------|-----------------|
| Series        | Execution | Material                    |                 |
|               |           | Polished<br>Stainless steel |                 |
| 150.HG-TASJ40 | R (Right) | .33                         | 0~4.0           |
| 150.HG-TASJ40 | L (Left)  | .33                         |                 |

Application example



Left-handed type shown.

## Torque hinges

Art. no.: 150.HG-TBSJ40 (perforated and countersunk)

with adjustable Torque

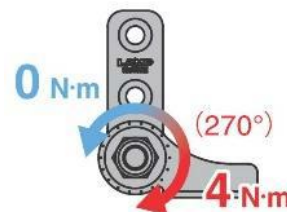
Operating temperature: 0 ~ 40 ° C

Opening angle ca. (270°).

Use a spanner for torque adjustment (nominal size 13).

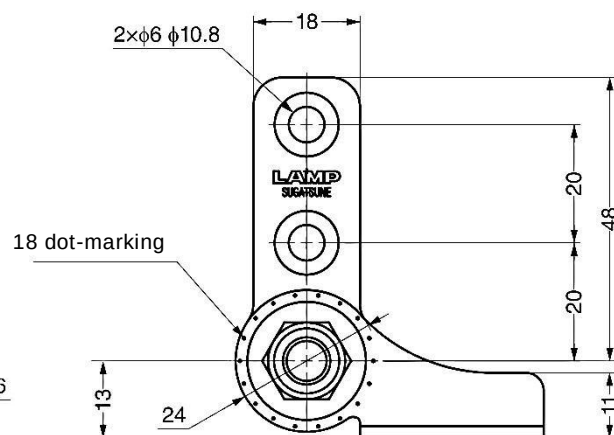
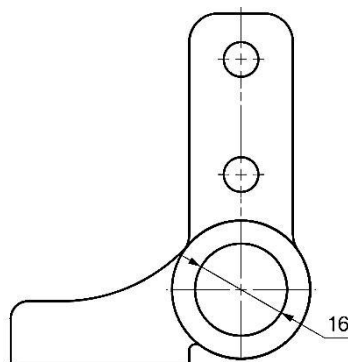
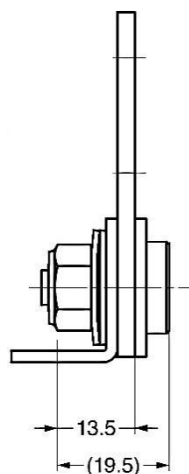
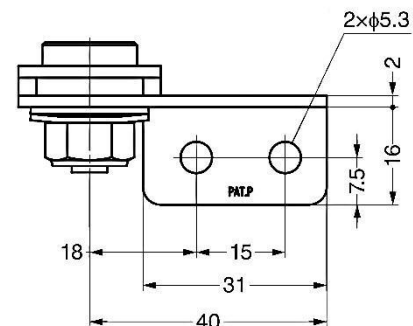
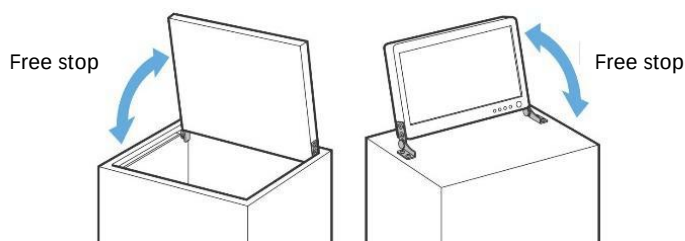
Do not forcibly remove the torque adjustment nut!

The factory setting of torque is 4,0 Nm.



| Article no.   |           |                             | Torque in Nm |
|---------------|-----------|-----------------------------|--------------|
| Series        | Execution | Material                    |              |
|               |           | Polished<br>Stainless steel |              |
| 150.HG-TBSJ40 | R (Right) | .33                         | 0 ~ 4.0      |
| 150.HG-TBSJ40 | L (Left)  | .33                         |              |

### Application example



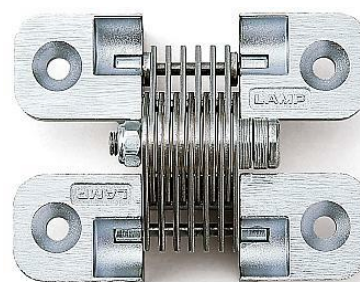
Left-handed type shown. Right-handed type is symmetrical

## Torque hinges

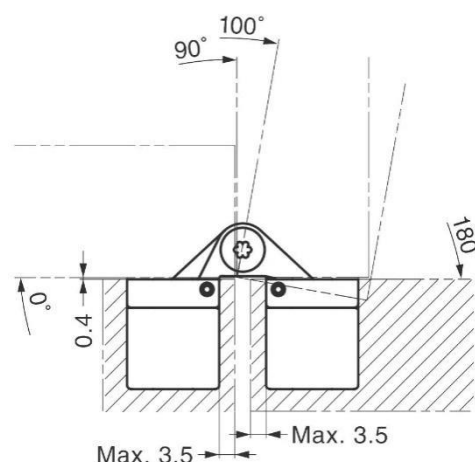
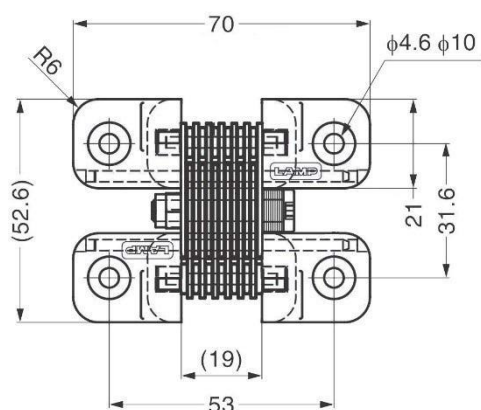
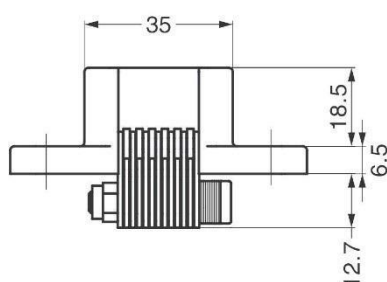
Art. no.: 150.HG-RT (perforated and countersunk)

Opening angle (0 ° ~ 100 °)  
Operating temperature: 0 ~ 40 ° C

Torque decreases as the opening angle increases,  
making easier to open the lid.

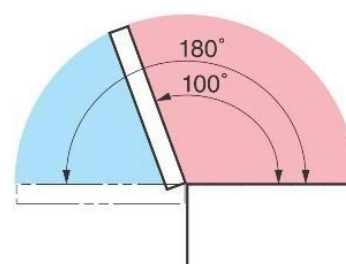


| Article no. |           |                  | Torque in<br>Nm/Pair<br>(closed position) |
|-------------|-----------|------------------|-------------------------------------------|
| Series      | Execution | Material         |                                           |
|             |           | Chromed<br>Zamak |                                           |
| 150.HG-RT   | 30        | .53              | 3                                         |
| 150.HG-RT   | 50        | .53              | 5                                         |



Free stop range

Range where  
torque is not  
effective





## Torque hinges

Art. no.: 150.HG-KNT (perforated)

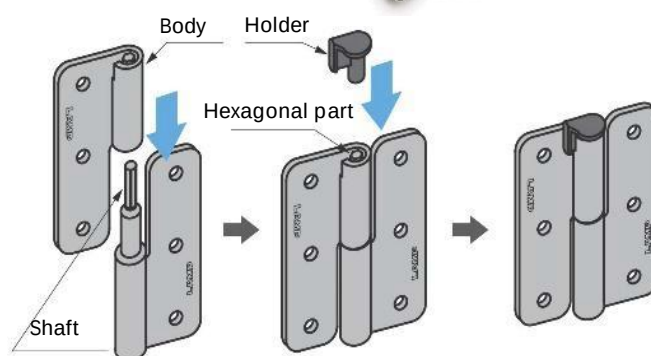
with constant Torque Lift-Off Typ.

Can be used vertically and horizontally.

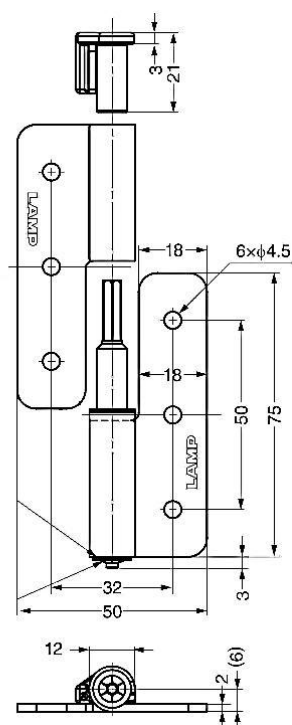
When using the hinges horizontally, set the holders  
opposite each other to prevent them being inserted or removed.



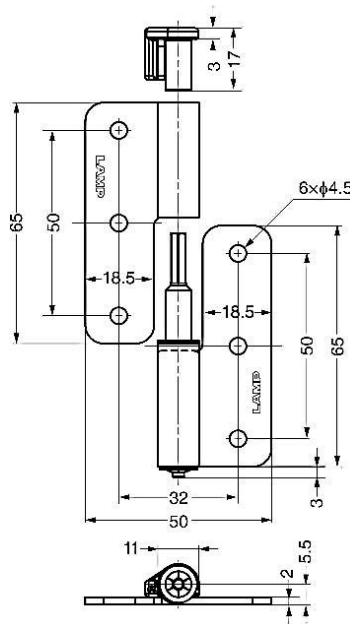
| Article no. |             |                             | Torque<br>in Nm |
|-------------|-------------|-----------------------------|-----------------|
| Series      | Execution   | Material                    |                 |
|             |             | Polished<br>Stainless steel |                 |
| 150.HG-KNT  | 3L (Left)   | .33                         | 0.3             |
| 150.HG-KNT  | 3R (Right)  | .33                         |                 |
| 150.HG-KNT  | 7L (Left)   | .33                         | 0.7             |
| 150.HG-KNT  | 7R (Right)  | .33                         |                 |
| 150.HG-KNT  | 16L (Left)  | .33                         | 1.6             |
| 150.HG-KNT  | 16R (Right) | .33                         |                 |



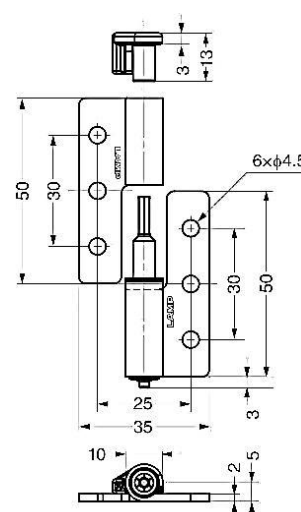
Install the body into shaft and then insert the holder into the hexagonal part of shaft to generate torque. To detach, use a tool to push the holder out.



150.HG-KNT16L



150.HG-KNT7L



150.HG-KNT3L

Left-handed type shown. Right-handed type is symmetrical.



## Torque hinges

Art. no.: 150.HG-TMH (perforated and countersunk)

Dual axis torque hinge

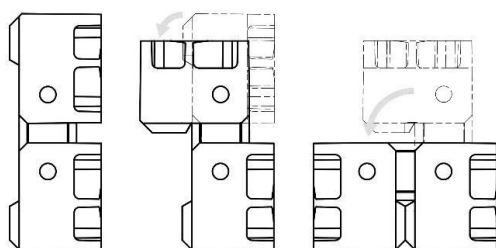
Swivels: 180°.

Suitable for folding table of shop and train.

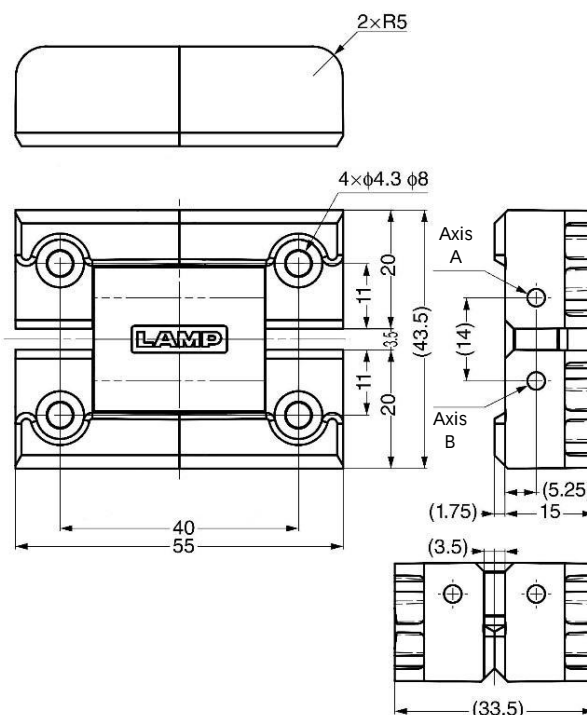
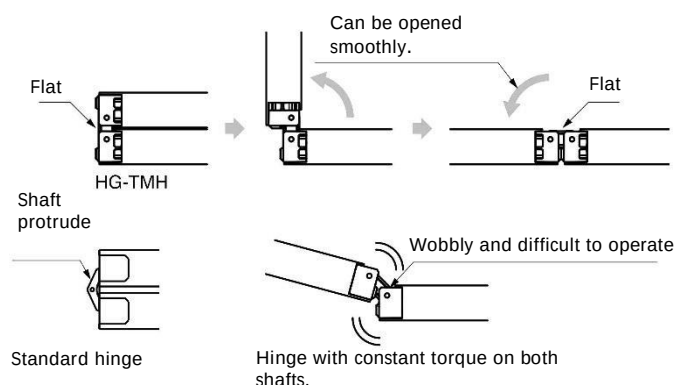


| Article no. |           | Material |              |        | Torque in Nm |        |
|-------------|-----------|----------|--------------|--------|--------------|--------|
| Series      | Execution | Zamak    |              |        | Axis A       | Axis B |
|             |           | Chromed  | Satin Nickel | Black  |              |        |
| 150.HG-TMH  | 1530      | .53      | -SN.51       | -BL.57 | 1.5          | 3.0    |
|             | 2030      | .53      | -SN.51       | -BL.57 | 2.0          |        |

### Hinge motions

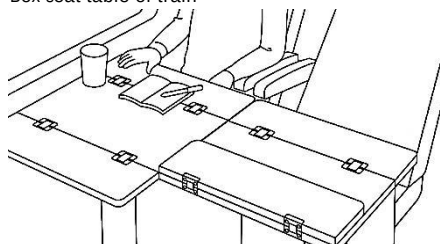


### Table movement

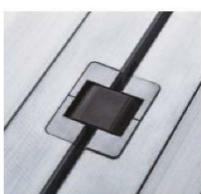


### Application example

Box seat table of train



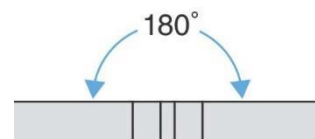
When fully opened



Flat and shafts do not protrude.



No projection from the top surface of the door when fully opened. The door is maintained as the mounting screws are not visible.



## Torque hinges

Art. no.: 150.HG-JHW16S (perforated and countersunk)

with constant torque

Opening angle ca. (180°)

Operating temperature: 0 ~ 40 ° C

With built-in damper.

Covers various torque ranges by using „with damper“.  
and „without damper“ as a pair.

Install a stopper such as a stay at the lid opening/ closing.  
position (0~ 120 degree) for not exceeding the specified  
swivelling range.

Do not disassemble or modify the product!

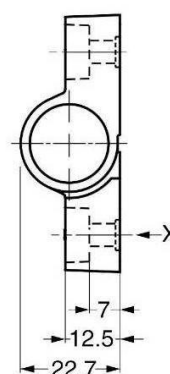
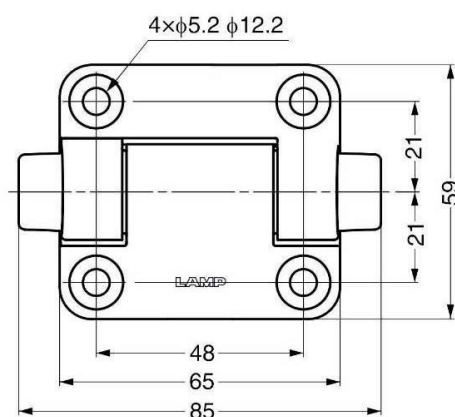
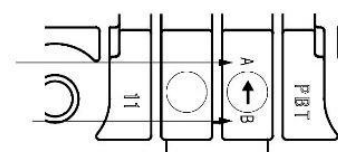


| Article no.   |                    |         |                  |                 |
|---------------|--------------------|---------|------------------|-----------------|
| Series        | Execution          |         | Material         | Torque<br>in Nm |
|               | Closing            | Opening | Dark grey<br>PBT |                 |
| 150.HG-JHW16S | -34                | -34G    | .85              | 2.0 ~ 3.4       |
| 150.HG-JHW16S | -50                | -50G    | .85              | 3.4 ~ 5.0       |
| 150.HG-JHW16S | -00 without damper |         | .85              | -               |

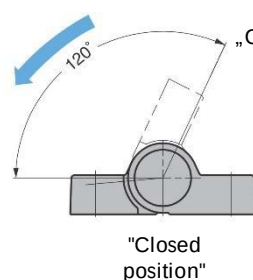
150.HG-JHW16S

150.HG-JHW16SG

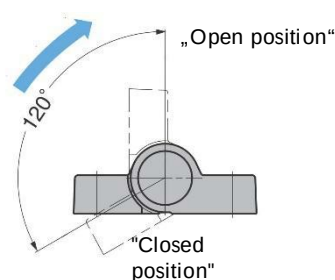
Bottom view



Damper working direction



150.HG-JHW16S



150.HG-JHW16SG

# Torque hinges

Art. no.: 150.HG-JHW, HG-JHWG (perforated and countersunk)

with constant torque

Opening angle ca. (115°)

Hinge with built-in dampers.

Install a stopper such as a stay at the lid opening7 closing position (0 ~ 115 degree) for not exceeding the specified swivelling range.



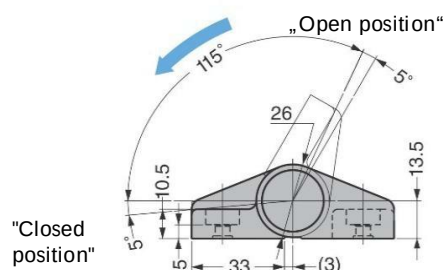
150.HG-JHW



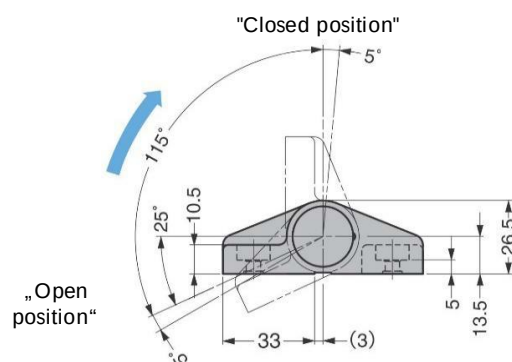
150.HG-JHWG

| Article no. |           |         |           | Torque<br>in Nm/Pair |
|-------------|-----------|---------|-----------|----------------------|
| Series      | Execution |         | Material  |                      |
|             |           |         | Dark grey |                      |
|             | Closing   | Opening | PBT       |                      |
| 150.HG-JHW  | 50        | 50G     | .85       | 3~5                  |
| 150 HG-JHW  | 70        | 70G     | 85        | 5~7                  |

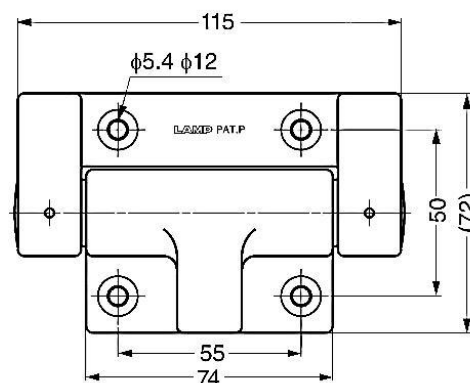
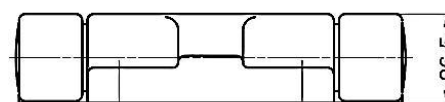
Damper working direction



150.HG-JHW



150.HG-JHWG



## Torque hinges

Art. no.: 6879 (perforated)

with constant torque

Opening angle ca. (115°)

Hinge with built-in dampers.  
Smooth movement in the opening direction.

Install a stopper such as a stay at the lid opening/ closing position (0 ~ 115 degree) for not exceeding the specified rotation range.

Sold in pairs.

Also be found in chapter: „Weld on hinges“.

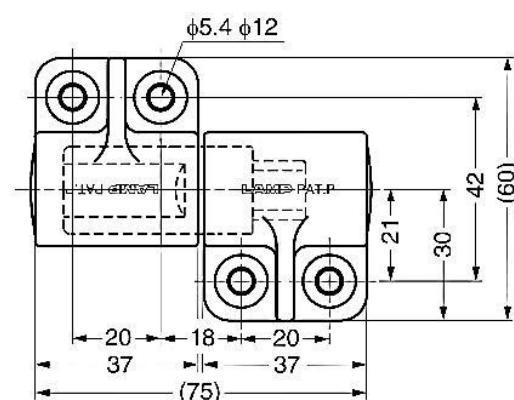
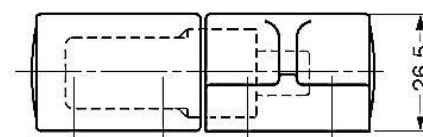
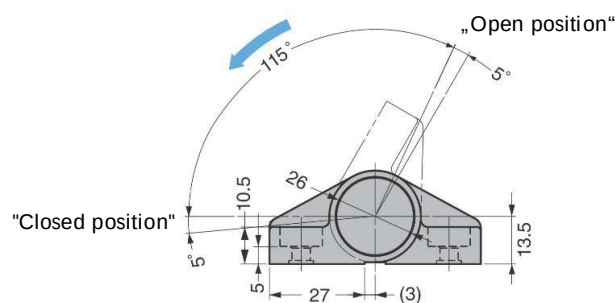


White (Left-handed)

The damper works when rotating counterclockwise.

| Article no. |           |                  | Torque<br>in Nm/Pair |
|-------------|-----------|------------------|----------------------|
| Series      | Execution | Material         |                      |
|             |           | Dark grey<br>PBT |                      |
| 6879        | .01       | .02              | 5~7                  |
| 6879        | .02       | .85              | 3~5                  |

Working working direction



Left-handed type shown.

# Torque hinges

Art.no: 6198

with constant torque  
Friction in one direction only.

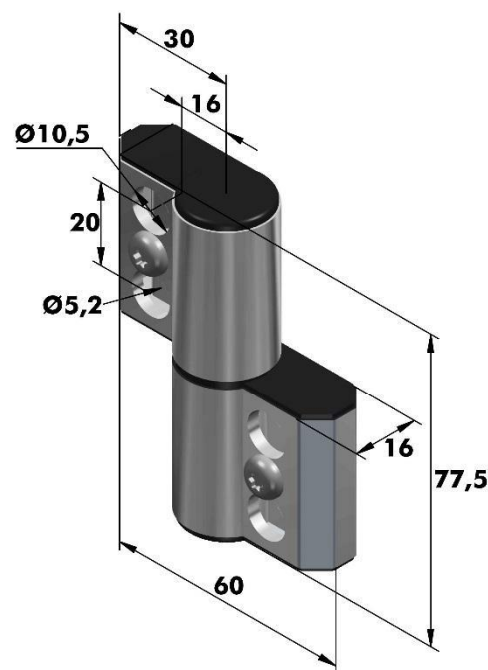
Operating temperature: 0°C ~ 50°C  
Torque will decrease at low temperature.

Not suited to vibration environment.

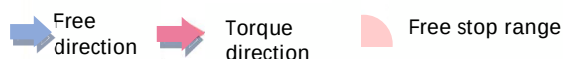
Sold in pairs.

| Article no. |           |                       |                      |
|-------------|-----------|-----------------------|----------------------|
| Series      | Execution | Material              | Torque<br>in Nm/Pair |
|             |           | Anodized<br>Aluminium |                      |
| 6198        | .01       | .70                   | 9                    |
| 6198        | .02       | .70                   | 9                    |

Shaft made of stainless steel; Covers made of „POM“

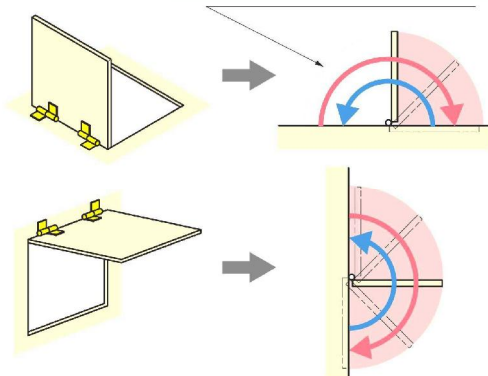


## Torque and free stop range

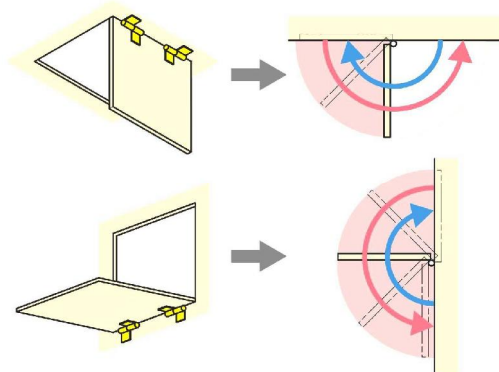


**6198.01.70**

Range where torque is not effective,  
install stopper to hold the door.



**6198.02.70**





## Torque hinges

Art. no.: 150.HG-JHM20 (perforated)

with constant torque

Mortise mount type.

Hinge with built-in dampers.

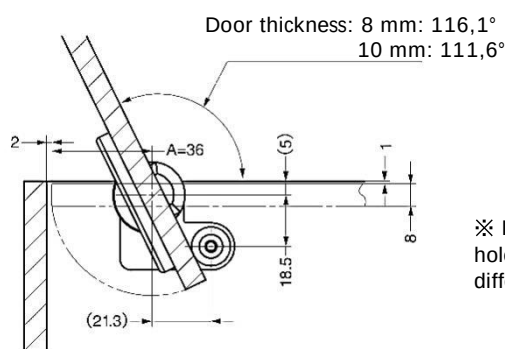
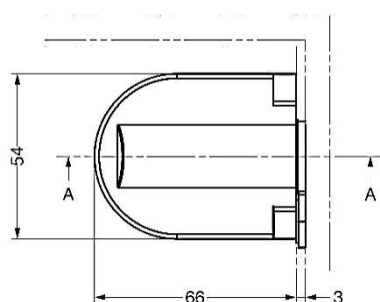
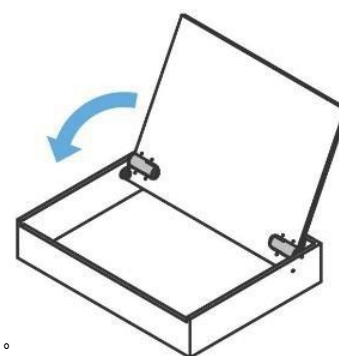
Smooth movement in opening direction.  
Damper mechanism works when opening  
the lid about 60° or more.

Sold in pairs.

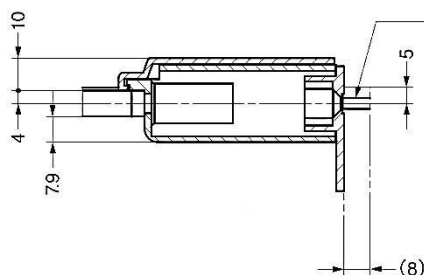
Minimum door thickness: 8mm



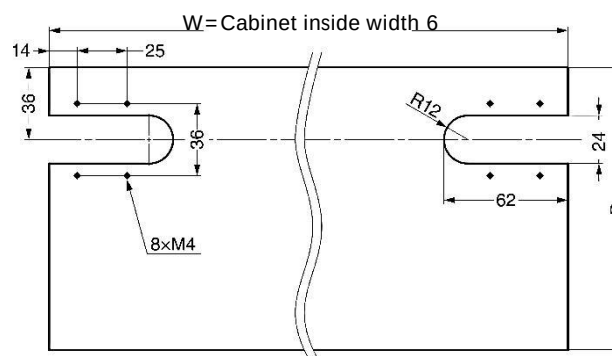
| Article no.   |           |          |       | Torque<br>in Nm/Pair |
|---------------|-----------|----------|-------|----------------------|
| Series        | Execution | Material |       |                      |
|               |           | POM      |       |                      |
|               |           | Black    | White |                      |
| 150. HG-JHM20 | -80       | BL 87    | WT 81 | 6~8                  |



※ If the distance from the screw hole to the edge is 5mm, a level difference of 1mm is generated.



A-A





## Torque hinges

Art. no.: 150.HG-JHM14 (perforated)

Hinge with built-in damper

Operating temperature: 0 ~ 40 ° C

Opening angle (105°)

Minimum door thickness: 8mm

Damper mechanism works when opening the lid by about 60 °.

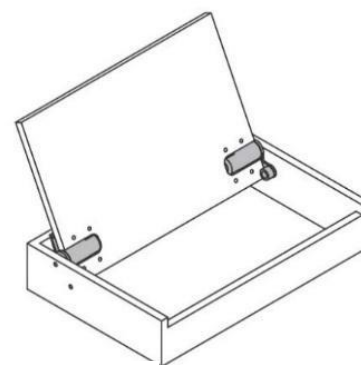


Sold in pairs.

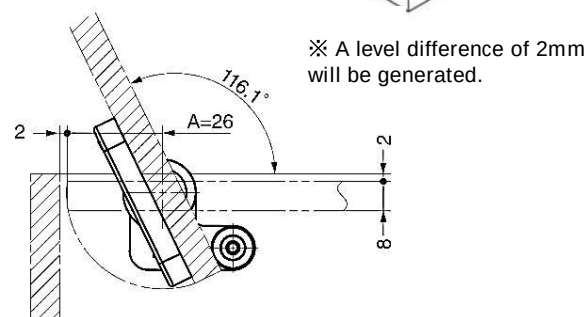
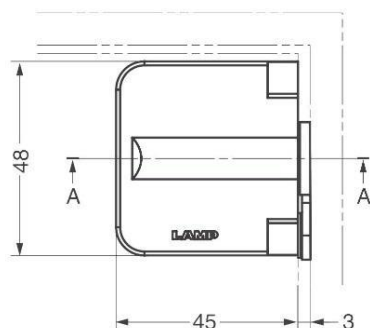
Sold in pairs.

| Article no.   |           |          |       | Torque<br>in Nm/Pair |
|---------------|-----------|----------|-------|----------------------|
| Series        | Execution | Material |       |                      |
|               |           | POM      |       |                      |
|               |           | Black    | White |                      |
| 150. HG-JHM14 | -S-8      | BL.87    | WT.81 | 0.5~0.8              |
| 150. HG-JHM14 | -S-15     | BL.87    | WT.81 | 0.8~1.5              |
| 150. HG-JHM14 | -S-20     | BL.87    | WT.81 | 1.5~2                |

The installation example relates to a wooden cover.

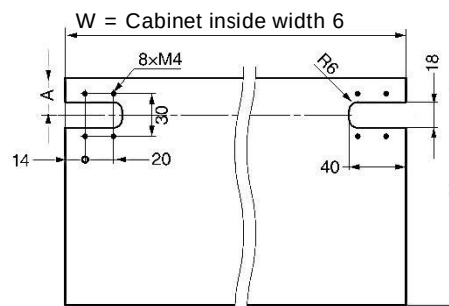
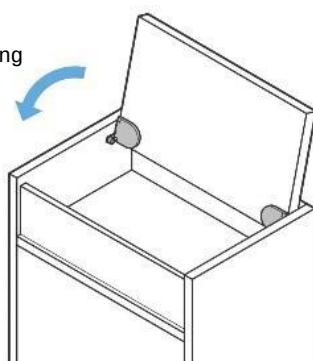


W



Cut out dimensions

Damper working range



## Torque hinges

Art. no.: 150.HG-JH14-50 (perforated and countersunk)

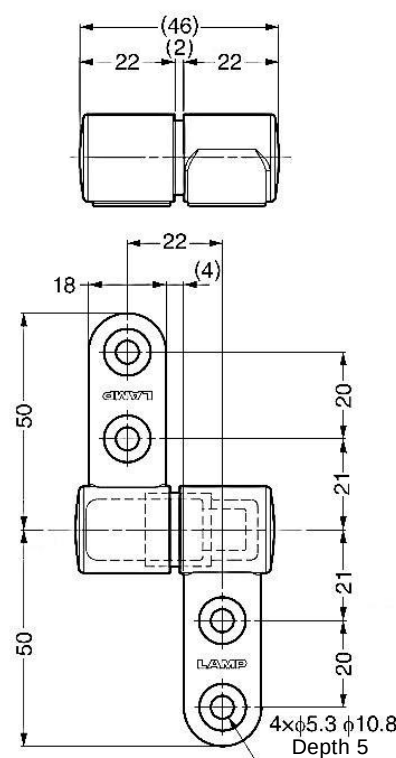
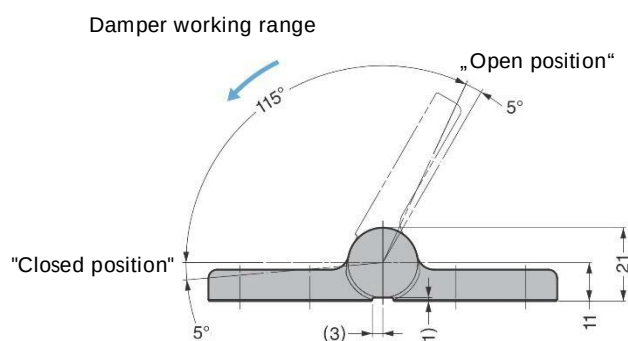
Soft-close hinge with damper and constant torque

Install a stopper such as a stay at the lid opening/closing position (0 ~ 115 degree) for not exceeding specified rotation range.

Sold in pairs.

| Article no.    |                                    | Torque<br>in Nm/Pair |
|----------------|------------------------------------|----------------------|
| Series         | Material                           |                      |
|                | Mirror polished<br>Stainless steel |                      |
| 150.HG-JH14-50 | .33                                | 3 ~ 5                |

Low torque type (1,6 bis 3,0 Nm) on request.



Left-handed type shown.

## Torque hinges

Art. no.: 150.HG-JHM9-S (perforated and countersunk)

Hinge with built-in damper  
Under mount type

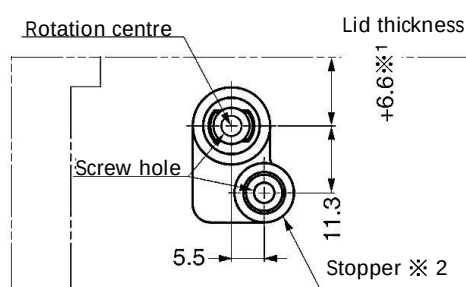
Operating temperature: 0 ~ 40 ° C



Sold in pairs.

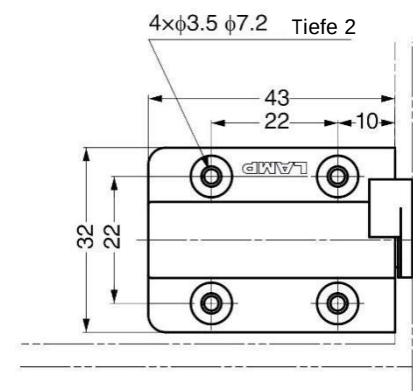
Sold in pairs.

| Article no.     |          |       |                      |
|-----------------|----------|-------|----------------------|
| Series          | Material |       | Torque<br>in Nm/Pair |
|                 | POM      |       |                      |
|                 | Black    | White |                      |
| 150. HG-JHM9-S  | BL.87    | WT.81 | 0.054~0.086          |
| 150. HG-JHM9-S4 | BL.87    | WT.81 | 0.027~0.043          |

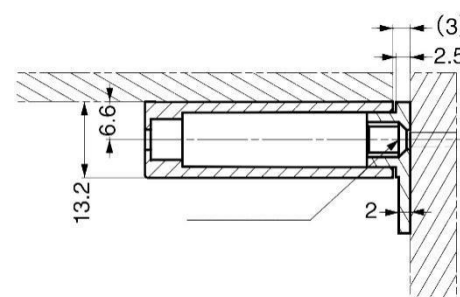
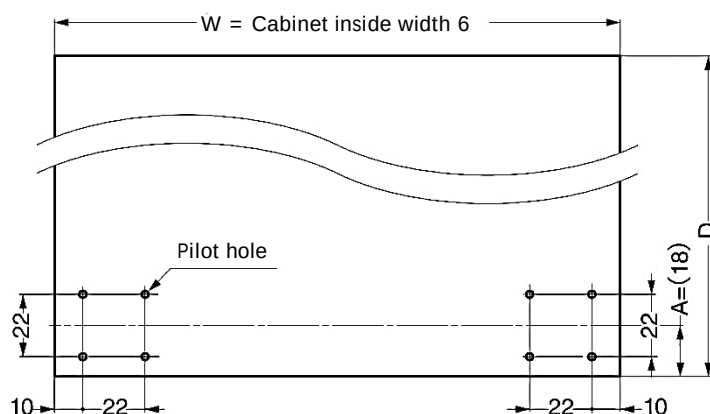


※ 1 Dimension when  
side board is flush with  
top surface of lid.

※ 2 To increase the  
opening angle of lid,  
rotate the stopper then  
fix it.



Cut out dimensions



## Torque hinges

Art. no.: 150.HG-JHM9-U (perforated and countersunk)

Hinge with built-in damper and constant torque.

Operating temperature: 0 ~ 40 ° C

Opening angle (105°)

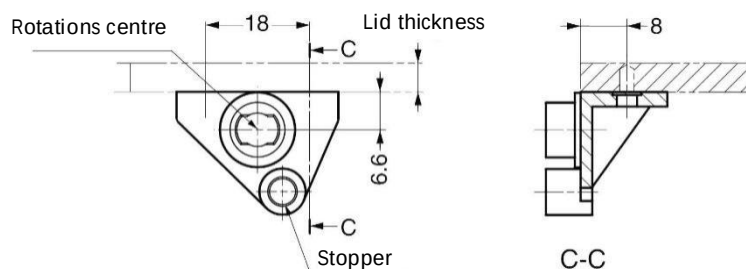
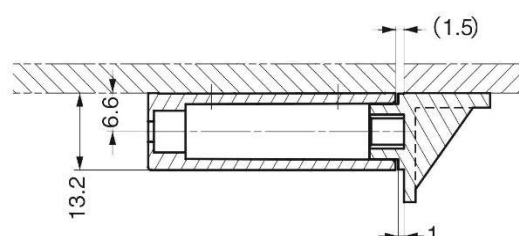


Sold in pairs.

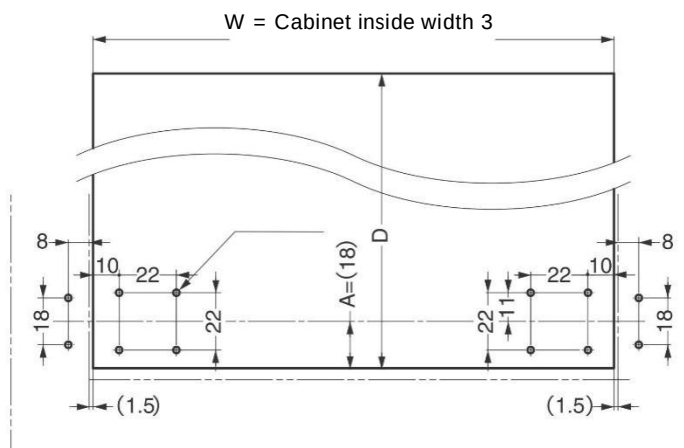
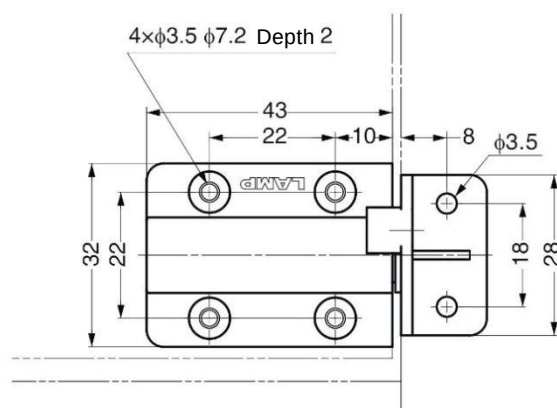


Sold in pairs.

| Article no.     |          |       |                      |
|-----------------|----------|-------|----------------------|
| Series          | Material |       | Torque<br>in Nm/Pair |
|                 | POM      |       |                      |
|                 | Black    | White |                      |
| 150. HG-JHM9-U  | BL.87    | WT.81 | 0.054~0.086          |
| 150. HG-JHM9-H4 | BL.87    | WT.81 | 0.027~0.043          |



### Cut out dimensions



## Torque hinges

Art. no.: 150.HG-JHS9-S (perforated and countersunk)

Small damper hinge with self-opening function for top-opening lids.

Operating temperature: 0 ~ 40 ° C

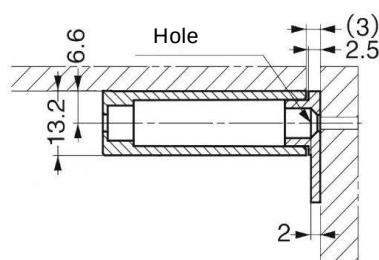
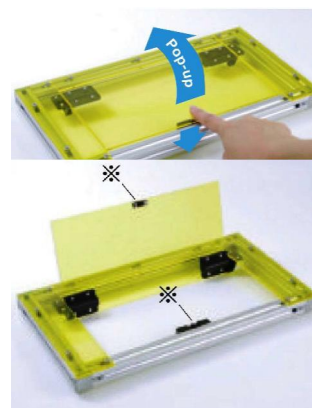
Opening angle (105°)

Opening speed is adjustable with a hex key.

Pressure cap sold separately.

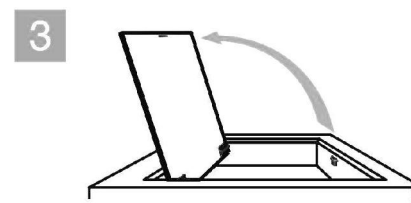
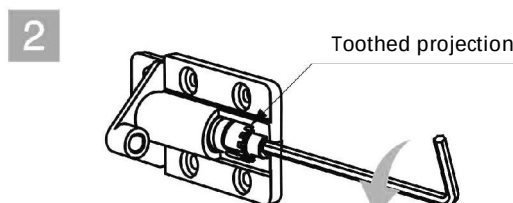
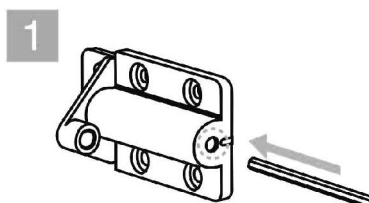
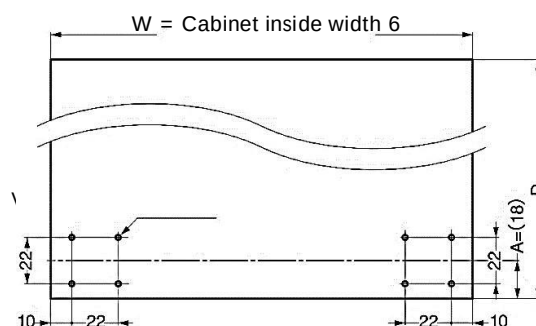
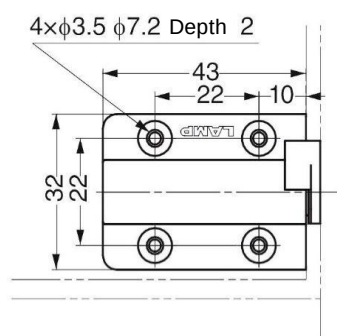
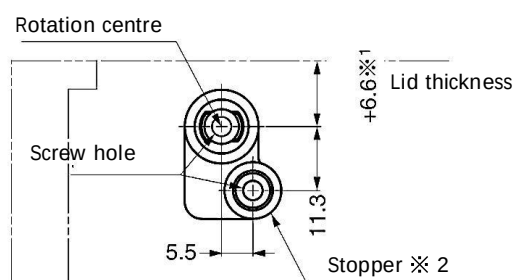
Sold in pairs.

|                |          |       |                      |
|----------------|----------|-------|----------------------|
| Sold in pairs. |          |       |                      |
| Article no.    |          |       |                      |
| Series         | Material |       | Torque<br>in Nm/Pair |
|                | POM      |       |                      |
|                | Black    | White |                      |
| 150. HG-JHS9-S | BL.87    | WT.81 | 0.027~0.043          |



※ 1 Dimension when side board is flush with top surface of lid.

※ 2 To increase the opening angle of lid, rotate the stopper then fix it.



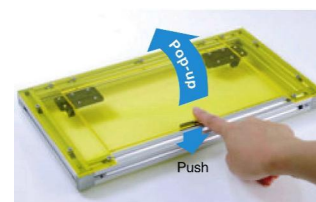


Art. no.: 150.HG-JHS9-U (perforated and countersunk)

Opening angle (105°)

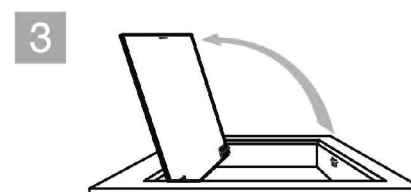
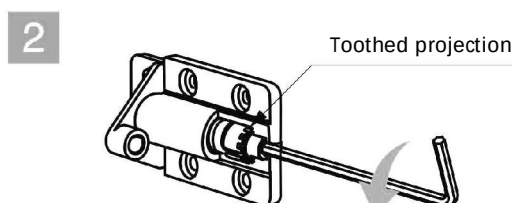
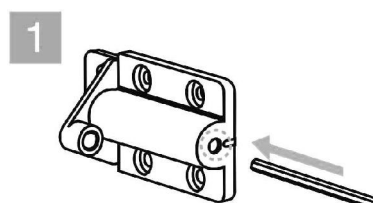
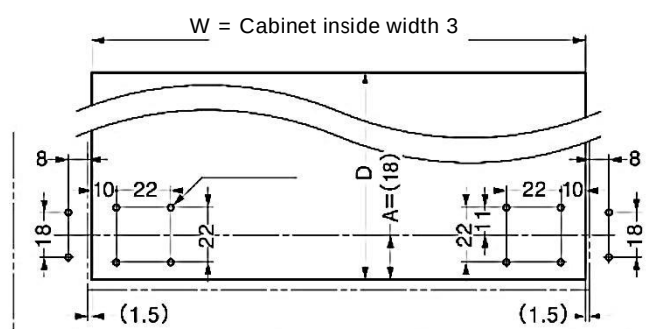
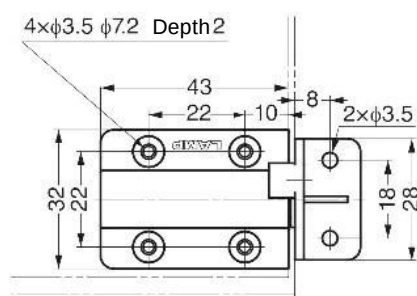
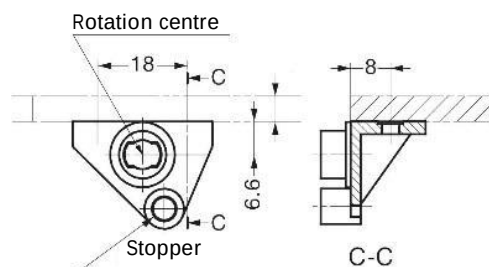
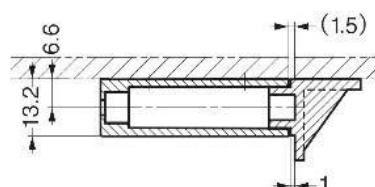
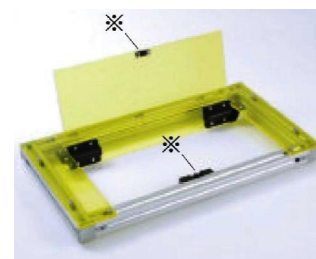
Opening speed is adjustable with a hex key.

Pressure cap sold separately



Sold in pairs.

|                |          |       |                      |
|----------------|----------|-------|----------------------|
| Article no.    |          |       |                      |
| Series         | Material |       | Torque<br>in Nm/Pair |
|                | POM      |       |                      |
|                | Black    | White |                      |
| 150. HG-JHS9-U | BL.87    | WT.81 | 0.027~0.043          |



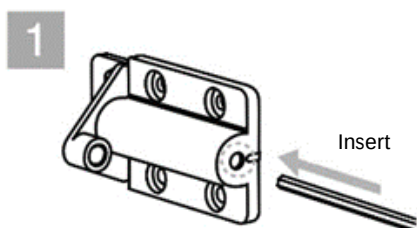
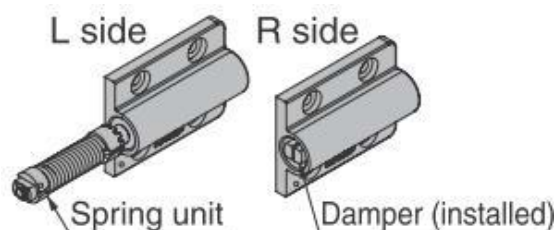


## Torque hinges

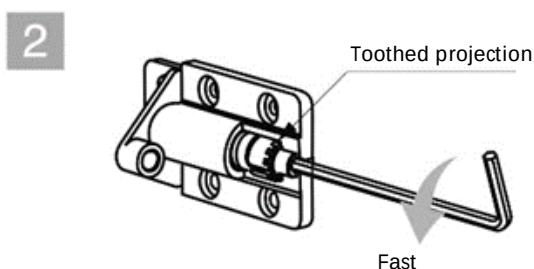
Art. no.: 150.HG-JHS9 S

Art. no.: 150.HG-JHS9 U

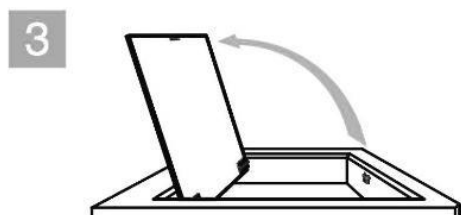
Additional information:  
When increasing lid opening speed



Insert a hex key (size 2,5) into the hole of spring unit (L Seite).



Push in the hex key until toothed projection disengaged, while rotating counterclockwise by 30° and then pull it out.



Close the lid and check if the lid can be opened smoothly. Repeat steps 1-3 (maximum 1-2 times) if lid opening speed is still slow.

Make sure to rotate counterclockwise following pushing in the hex key and disengaged the projection. Forced rotation may cause damage.

## Torque hinges

Art. no.: 150.HG-CSH63 (perforated)

With constant torque and detent function.

Detent at both 0 ° and 100 °.

Torque not adjustable.

Also available as:

Free running hinge see chapter „hinges“



Type 1



Type 2



Type 3

| Article no.  |           |                                   | Torque<br>in Nm |
|--------------|-----------|-----------------------------------|-----------------|
| Series       | Execution | Material<br>Anodized<br>Aluminium |                 |
| 150.HG-CSH63 | 1         | .71                               | Without damper  |
| 150.HG-CSH63 | AM2       | .71                               | 1~1.7           |
| 150.HG-CSH63 | AH2       | .71                               | 1.7~2.5         |
| 150.HG-CSH63 | BM3       | .71                               | 1~1.7           |
| 150.HG-CSH63 | BH3       | .71                               | 1.7~2.5         |

Fig. A (Correct installation)

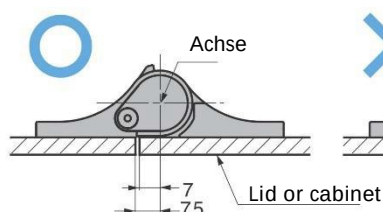
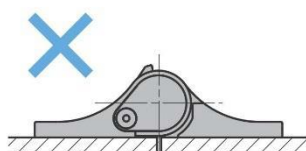
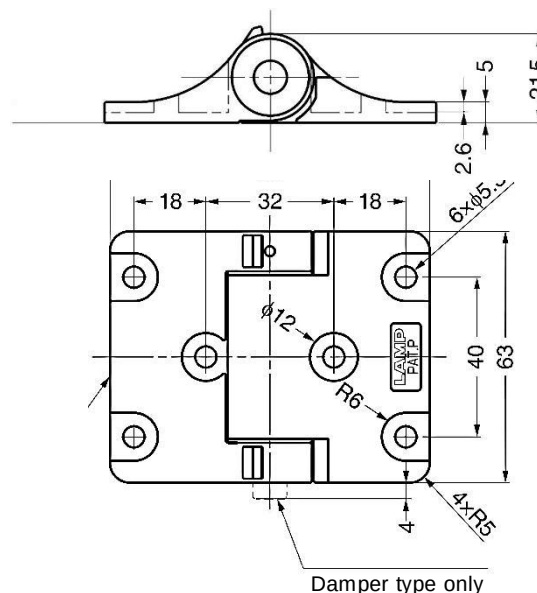


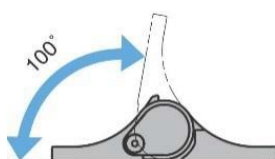
Fig. B (Wrong installation)



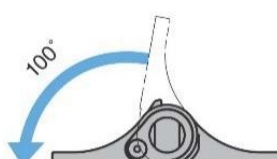
As shown in „Fig. A“ shift the axis of hinge and the edge of lid or cabinet.



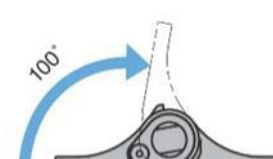
Type 1  
Without damper



Type 2  
With damper



Type 3  
With damper



## Torque hinges

Art. no.: 150. HG-PA180-9 (perforated)

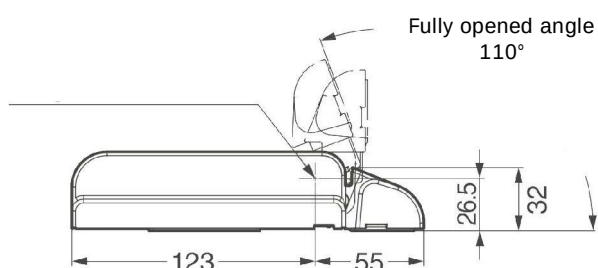
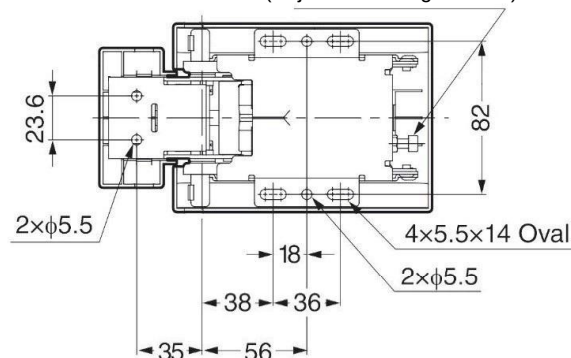
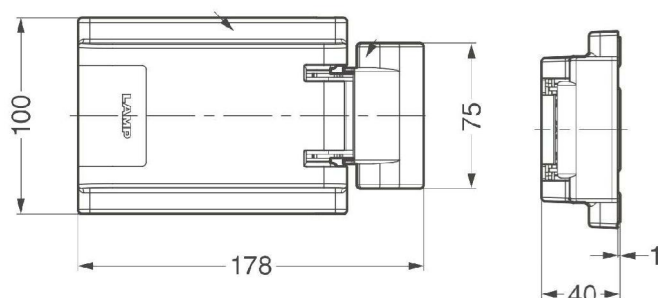
Lift Assist with adjustable torque.  
with plastic cover (PBT light grey)

Easy to lift heavy top-opening lid with spring tension.  
Smooth and soft-closing movement at the end, preventing  
Lid from slamming shut.

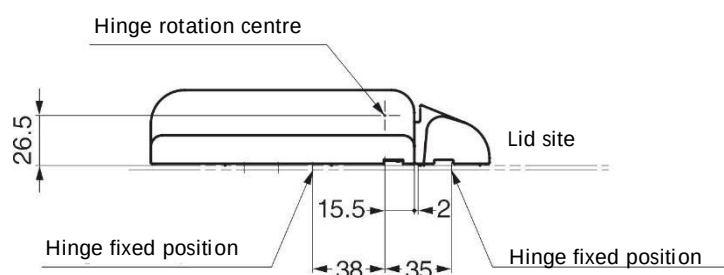
Torque is adjustable by turning the adjustment screw ( $\pm 11\%$ ).



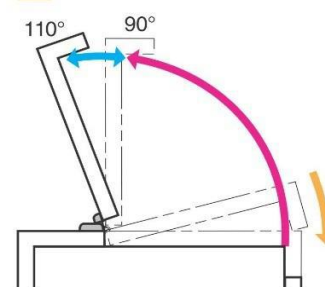
Torque adjustment screw  
(Adjustment range  $\pm 11\%$ )



### Installation



- Free
- Lift assist
- Soft-close



## Torque hinges

Art. no.: 150. HG-PA200, HG-PA201 (perforated)



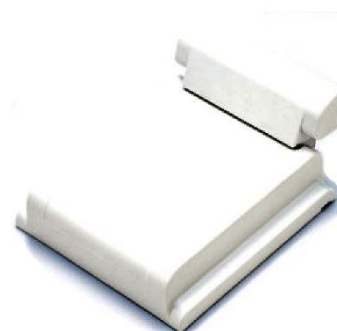
Lift-Assist with adjustable Torque  
with plastic cover (PBT light grey)

Easy to lift heavy top-opening lid with spring tension.

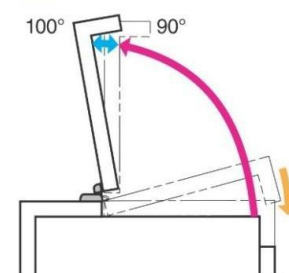
Smooth and soft-closing movement at the end,  
preventing lid from slamming shut.

Torque is adjustable by turning the adjustment screw ( $\pm 5\%$ ).

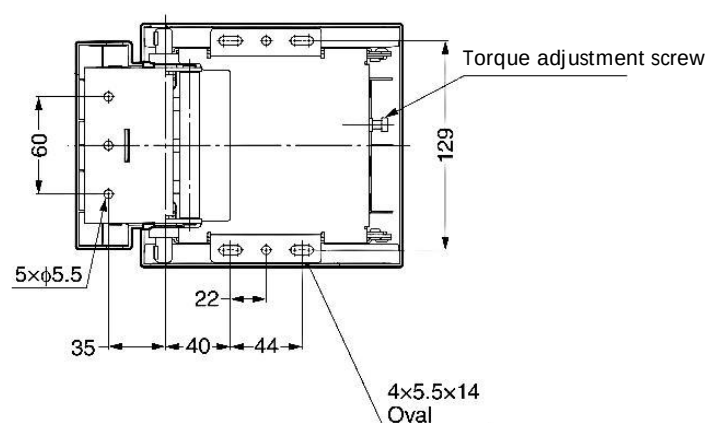
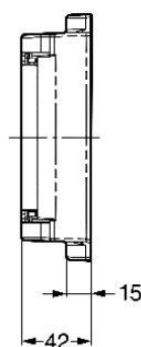
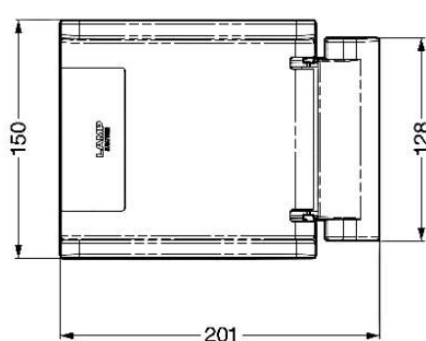
Install a stopper (not included) on the cabinet to prevent from exceeding  
the operating angle during opening or closing.



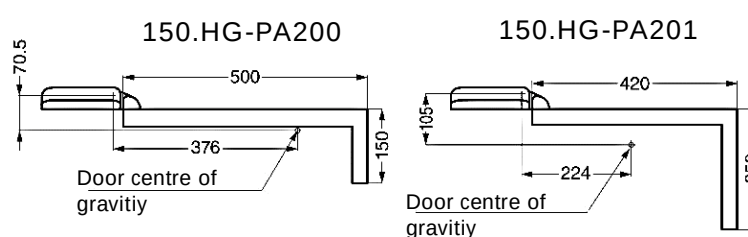
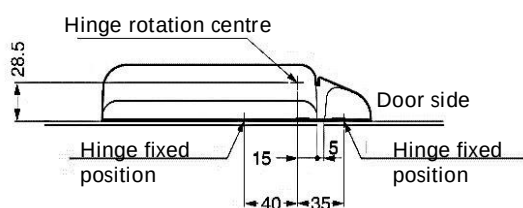
Free  
Lift assist  
Soft-close



| Article no.      |                 | Torque in Nm |
|------------------|-----------------|--------------|
| Series           | Material        |              |
|                  | Stainless steel |              |
| 150. HG-PA200-15 | .30             | 15           |
| 150. HG-PA200-20 | .30             | 20           |
| 150. HG-PA200-25 | .30             | 25           |
| 150. HG-PA201-15 | .30             | 15           |
| 150. HG-PA201-20 | .30             | 20           |
| 150. HG-PA201-25 | .30             | 25           |



### Installation



## Torque hinges

### Art. no.: 150. HG-PA270 (perforated)

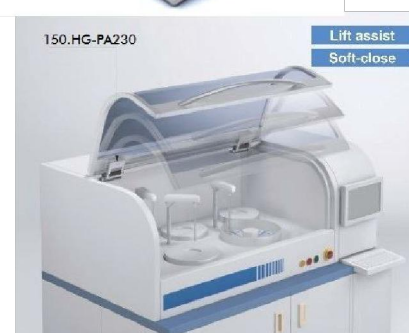
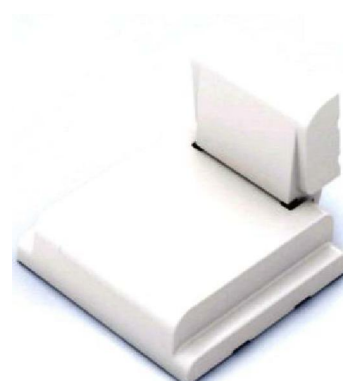
Lift-Assist with adjustable torque.  
with plastic cover (PBT light grey)

Easy to lift heavy top-closing lid with spring tension.

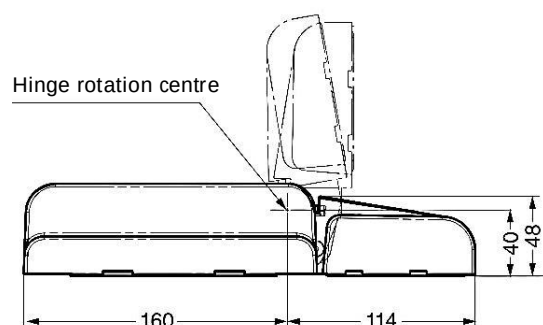
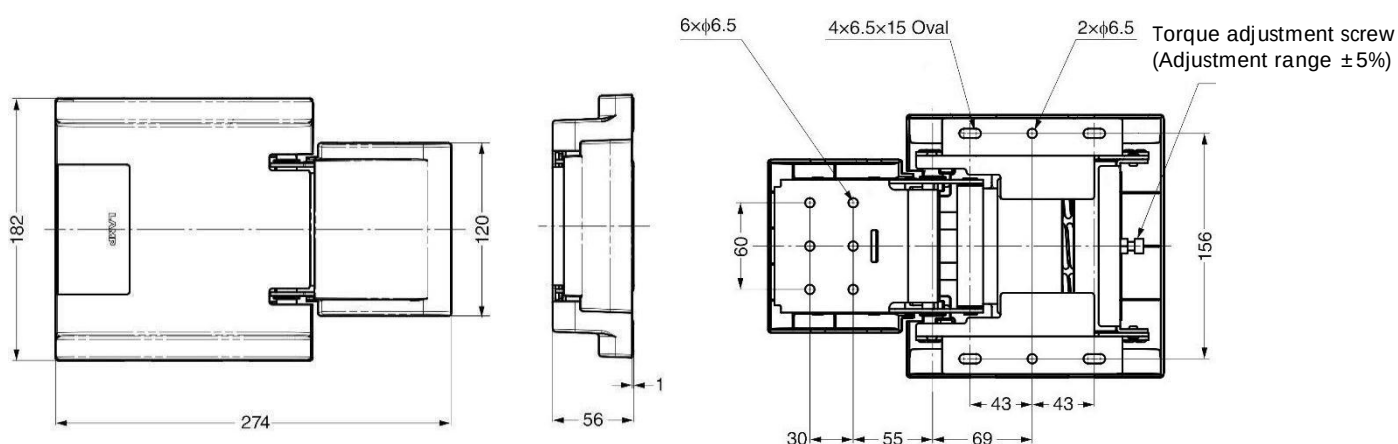
Smooth and soft-closing movement at the end, preventing  
Lid from slamming shut.

Torque is adjustable by turning the adjustment screw ( $\pm 5\%$ ).

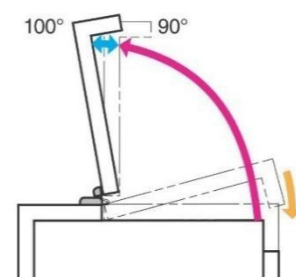
Install a stopper (not included) on the cabinet to prevent  
from exceeding the operation angle during opening or closing.



| Article no.      |                        | Torque<br>in Nm |
|------------------|------------------------|-----------------|
| Series           | Material               |                 |
| 150. HG-PA270-35 | Stainless steel<br>.30 | 35              |
| 150. HG-PA270-45 | .30                    | 45              |



- Free
- Lift assist
- Soft-close





## Torque hinges

Art. Nr.: 150. HG-PA210-9 (perforated)

Lift-Assist with adjustable torque and stopper plate  
with plastic cover (PBT light grey)

Able to limit the 140° opening angle to 55° or 80° with use of the  
included stopper plate.

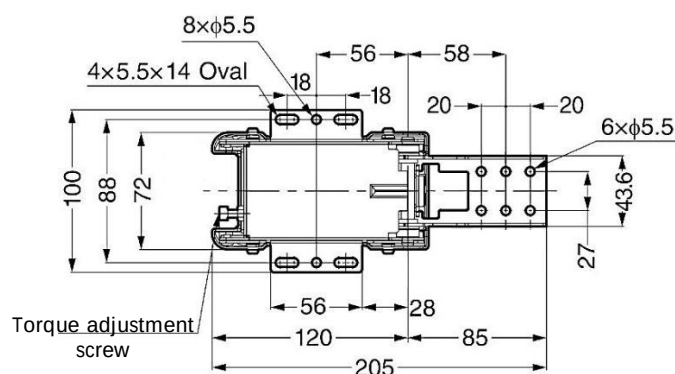
Smooth and soft-closing movement at the end, preventing lid  
From slamming shut.



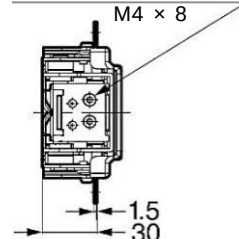
Torque is adjustable by turning the adjustment screw ( $\pm 11\%$ ).



| Article no.    |                        | Torque<br>in Nm |
|----------------|------------------------|-----------------|
| Series         | Material               |                 |
| 150.HG-PA210-9 | Stainless steel<br>.30 | 9               |

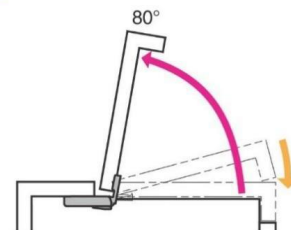


Hexagon socket head cap screw  
M4 x 8



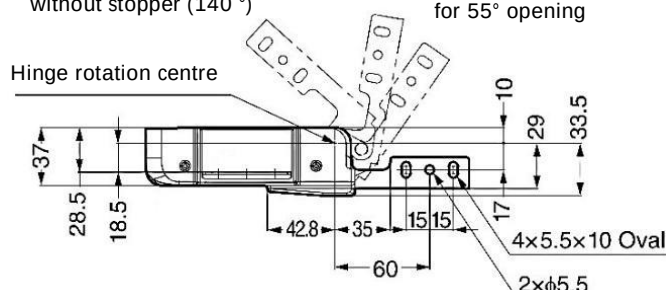
Stopper plate fixed  
for 80° opening

■ Lift assist  
■ Soft-close

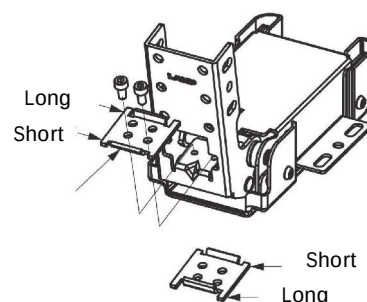
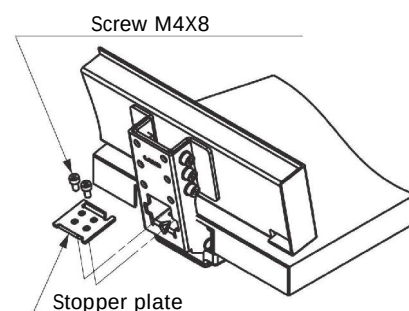
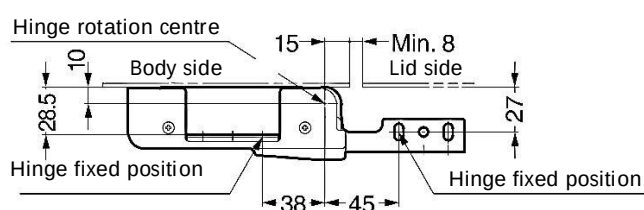


Full opening angle  
without stopper (140°)

When stopper is fixed  
for 55° opening



Installation





## Torque hinges

### Art. Nr.: 150. HG-PA230, HG-PA231 (perforated)

Lift-Assist with adjustable torque and stopper plate  
with plastic cover (PBT light grey)

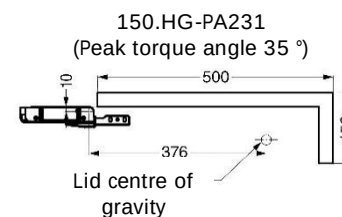
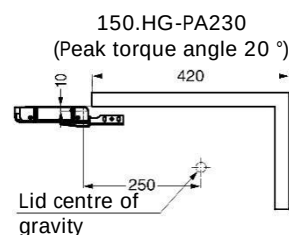
Easy to lift heavy top-opening lid with spring tension.

Torque is adjustable by turning the adjustment screw ( $\pm 5\%$ ).

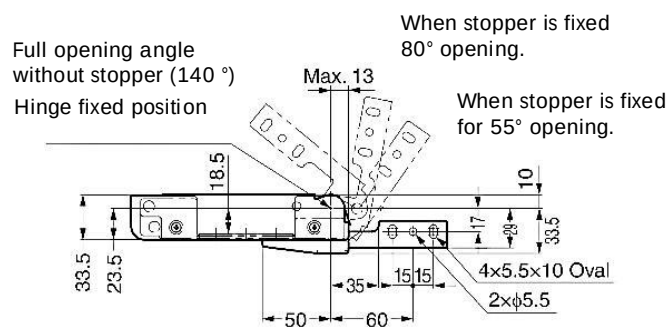
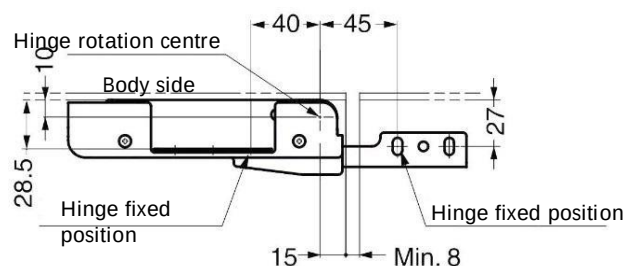
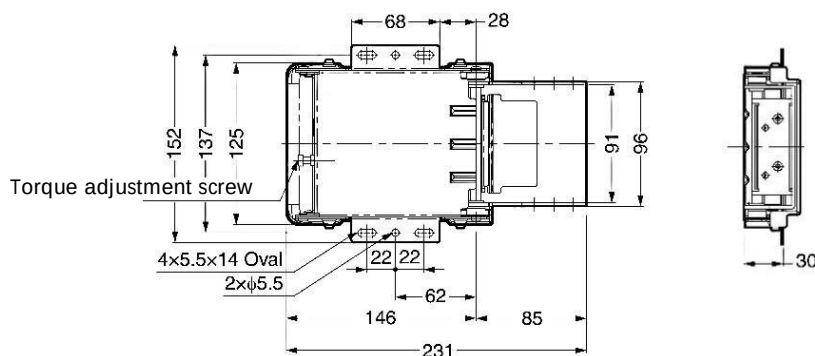
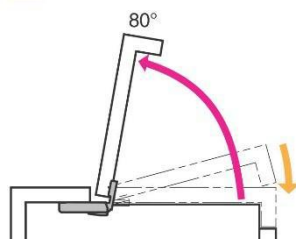
Able to limit the 140° opening angle to 55° or 80°  
with use of the included stopper plate.



| Article no.      |                 | Torque in Nm |
|------------------|-----------------|--------------|
| Series           | Material        |              |
|                  | Stainless steel |              |
| 150. HG-PA230-15 | .30             | 15           |
| 150. HG-PA230-20 | .30             | 20           |
| 150. HG-PA230-25 | .30             | 25           |
| 150. HG-PA231-15 | .30             | 15           |
| 150. HG-PA231-20 | .30             | 20           |
| 150. HG-PA231-25 | .30             | 25           |



Lift assist  
 Soft-close



## Detent hinges

Art. no.: **6874** (perforated and countersunk)

Locking position every 30° from 0° to 270°.  
With 3 different available locking moments.

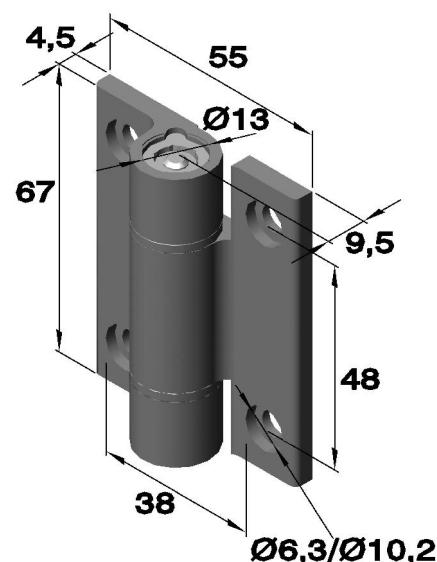
Also available as:

Free running hinge see chapter „Hinges “

Spring hinge see chapter „Spring hinges “

Torque hinge see chapter „Torque hinges “

| Article no. |           |                       | Torque<br>in N.m |
|-------------|-----------|-----------------------|------------------|
| Series      | Execution | Material              |                  |
|             |           | Black<br>Alu. 6060 T5 |                  |
| 6874        | .01       | .77                   | 1,8              |
| 6874        | .02       | .77                   | 2,5              |
| 6874        | .03       | .77                   | 3,2              |
| 6874        | .04       | .77                   | 5,0              |



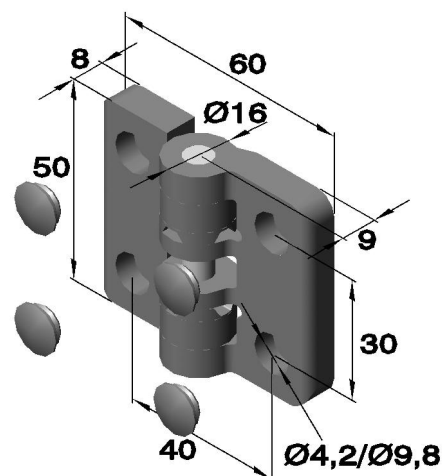
Art. no.: **6875** (perforated and countersunk)

with stainless steel pin (1.4305)

Locking positions every 90°.

Maximum weight of the door: 1.2 kg for 2 hinges.

| Article no. |           |            |
|-------------|-----------|------------|
| Series      | Execution | Material   |
|             |           | Polyacetal |
| 6875        | .01       | .80-Ivory  |
| 6875        | .02       | .80-Black  |



Art. no.: **6871** (perforated and countersunk)

All catch positions 30° from 0° to 270°

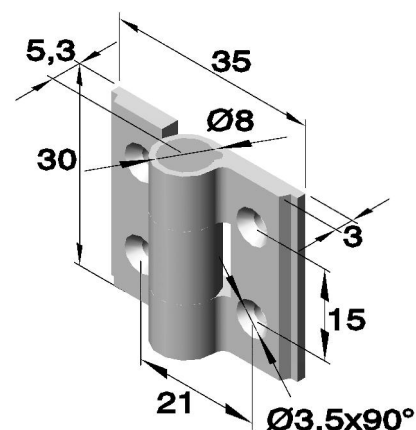
Drag moment is not adjustable!

Also available as:

Spring hinge see chapter “Spring hinges”

Torque hinge see chapter „Torque hinges “

| Article no. |           |               |                |
|-------------|-----------|---------------|----------------|
| Series      | Execution | Material      |                |
|             |           | Anodized pale | Anodized black |
|             |           | Alu 6060 T5   | Alu 6060 T5    |
| 6871        | .06       | .71           | .77            |



## Detent hinges

Art. no.: 150.HG-MPS2 (perforated)

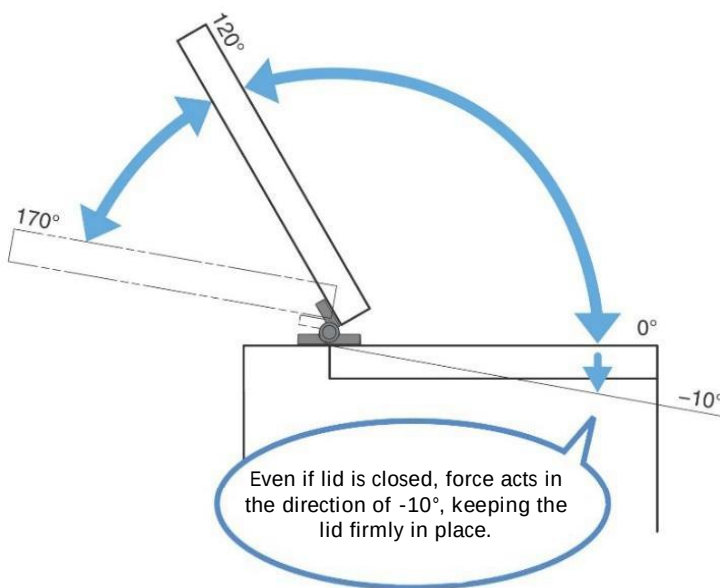
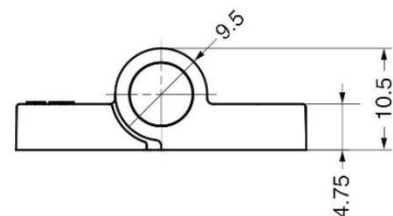
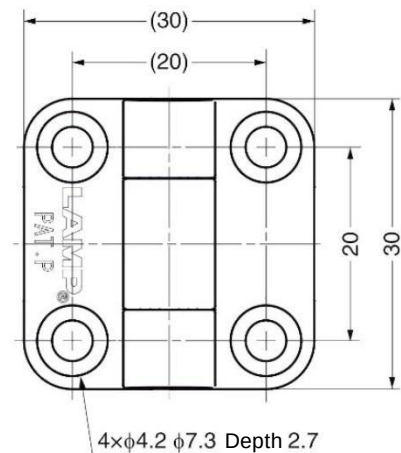
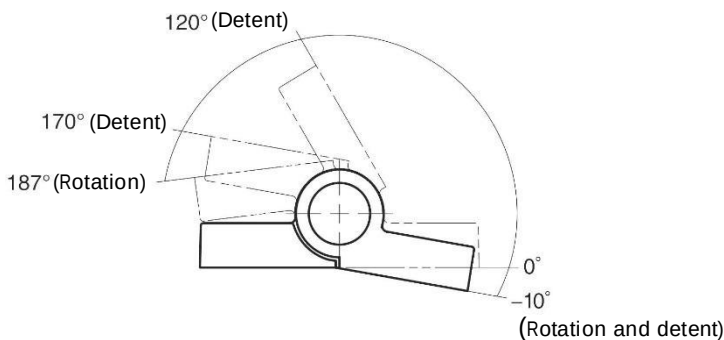
Detent positions:  $-10^\circ$ ,  $120^\circ$  und  $170^\circ$ .  
Can be used horizontally or vertically.

Additional stopper is recommended at  $0^\circ$  (fully closed)  
and  $170^\circ$  (fully opened).

For indoor use only.  
Not suitable for wet applications.



| Article no. |          |        | Retaining torque<br>in Nm |             |
|-------------|----------|--------|---------------------------|-------------|
| Series      | Material |        | $-10^\circ$ , $170^\circ$ | $120^\circ$ |
|             | PBT      |        | 0.26                      | 0.145       |
|             | Black    | White  |                           |             |
| 150.HG-MPS2 | -BL.87   | -WT.81 |                           |             |



## Detent hinges

Art. no.: 150.HG-FH128 (perforated and countersunk)



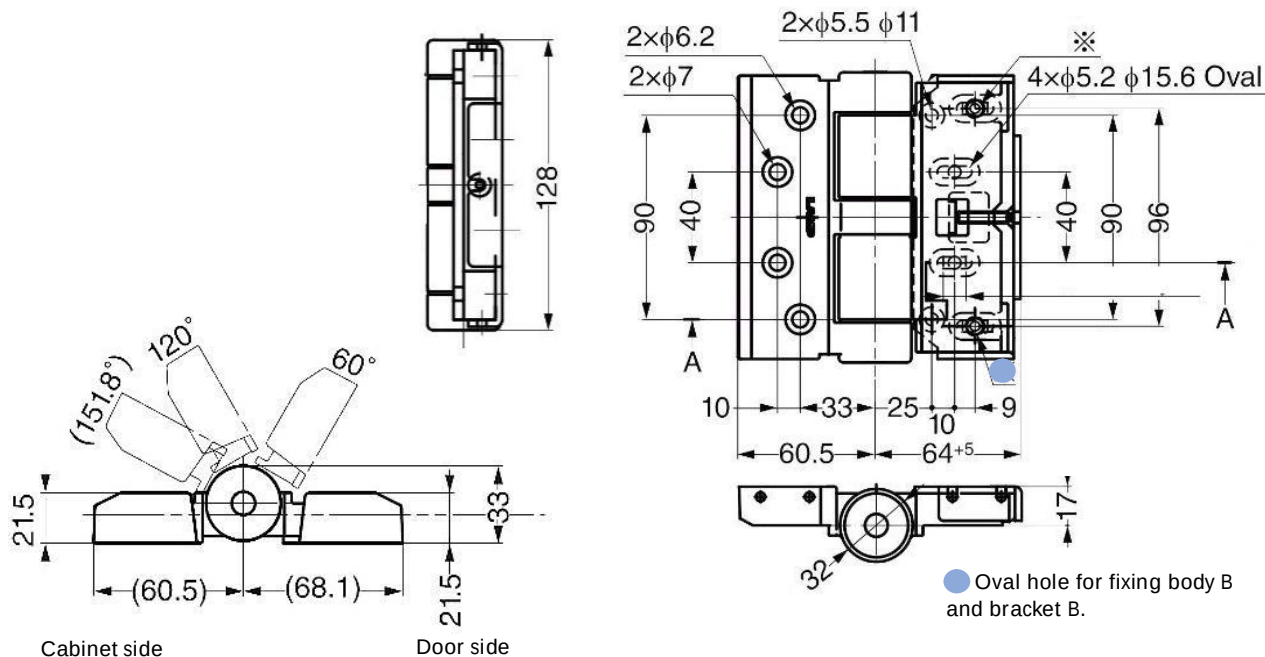
Detent position: bei 60 ° und 120 °.

Depth and horizontal adjustment can also made.  
after installation.

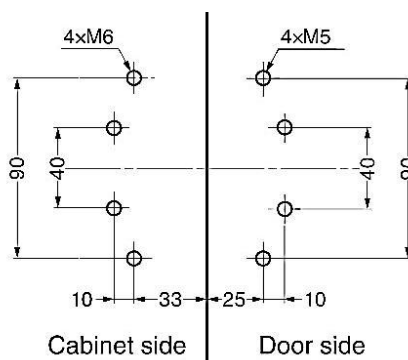
Fluororesin washer at rotation part  
ensures smooth operation.



| Article no.  |               | Retaining torque<br>in Nm/Paar |
|--------------|---------------|--------------------------------|
| Series       | Material      |                                |
|              | Nickel plated |                                |
| 150.HG-FH128 | .51           | 10                             |



### Cut out dimensions



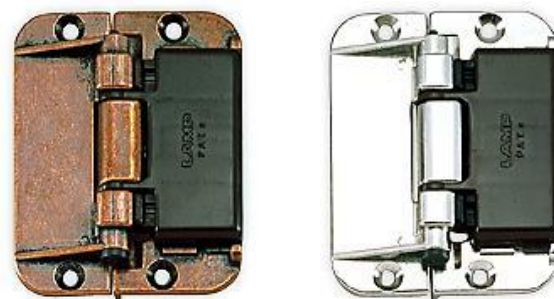
## Detent hinges

Art. no.: 150.CH-75 (perforated and countersunk)

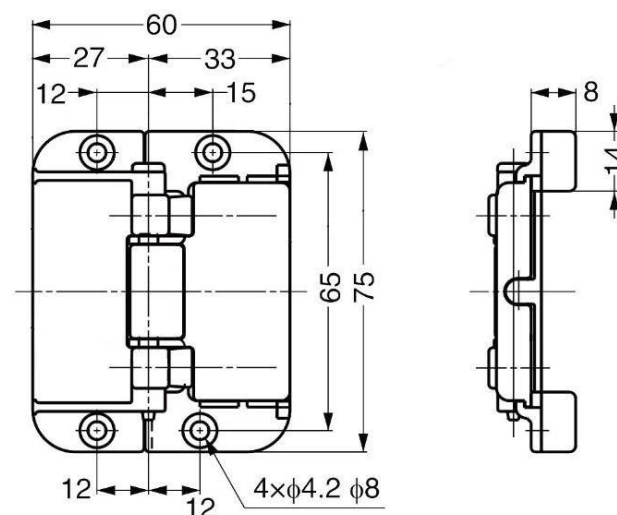
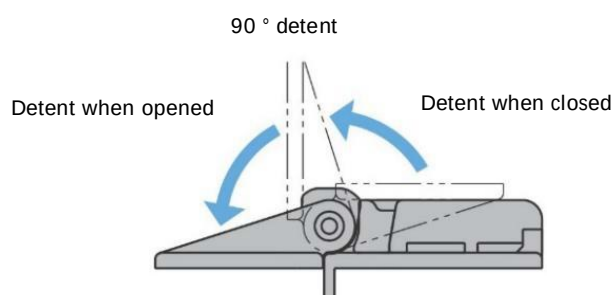
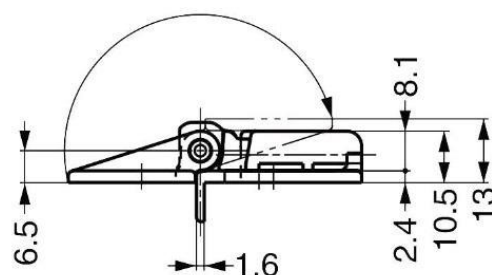
Detent positions: 0°, 90° und 180°

Cushion function absorbs impact at full opening and unexpected external force.

Removable hinge pin allows easy installation.



| Article no. |            |          |
|-------------|------------|----------|
| Series      | Material   |          |
|             | Zamak      |          |
|             | vernickelt | verbronz |
| 150.CH-75   | -NI.51     | -GB.55   |





# Detent hinges

## Art. no.: 150. HG-RCT15-C (perforated and countersunk)

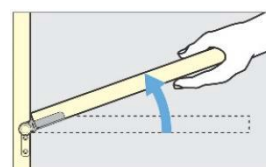


Ratchet mechanism holds at angles in 5° increment from closed to opened position.

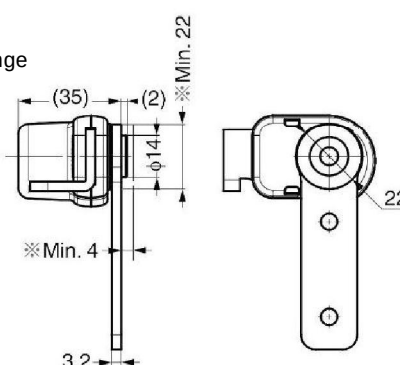
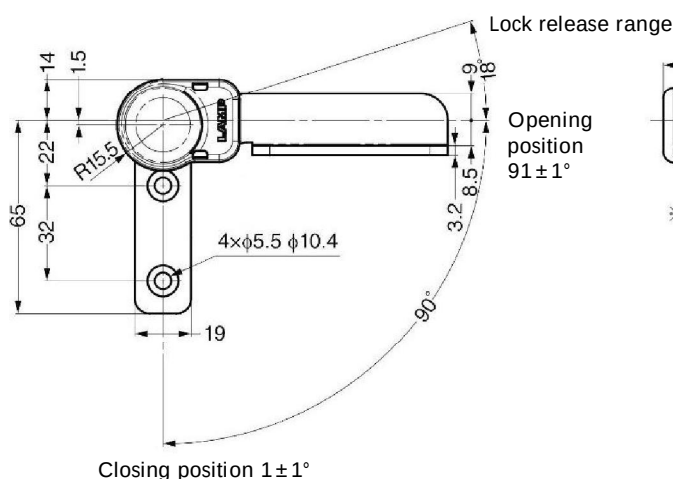
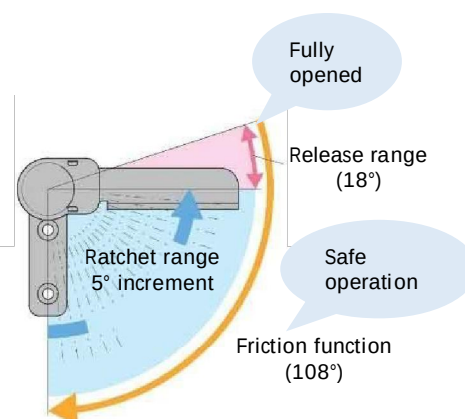
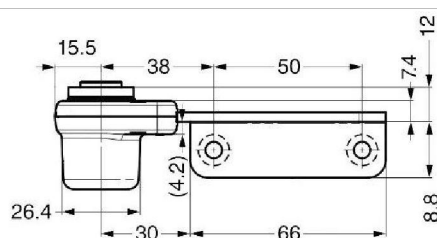
The friction (resistance) function works even when release the ratchet mechanism.

When the mounting width of hinge is more than 400mm, the ratchet mechanism may not work simultaneously on the left and right.

Use in pairs.



| Article no.    |                        | Allowable movement<br>Nm/Pair |
|----------------|------------------------|-------------------------------|
| Series         | Material               |                               |
|                | Nickel plated<br>Steel |                               |
| 150.HG-RCT15-C | .01                    | 40                            |

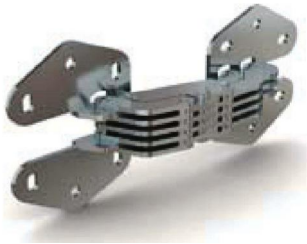


Undercut for the ※ area is needed.  
Right- handed type shown.





## Concealed hinges



Art.:6069.05



Art.:6069.04



Art.:6103



Art.:6127



Art.:6589



Art.:6128



Art.:6069.09



Art.:6069.14



Art.:6069.00



Art.:6588



Art.:6100

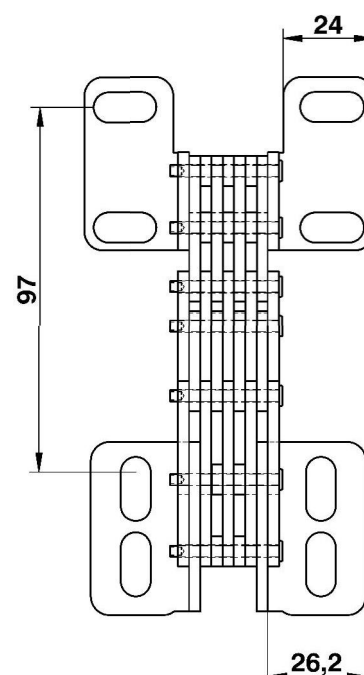
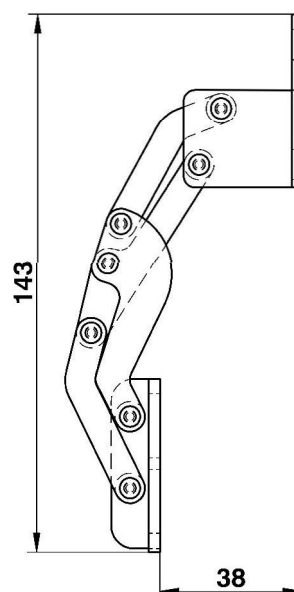
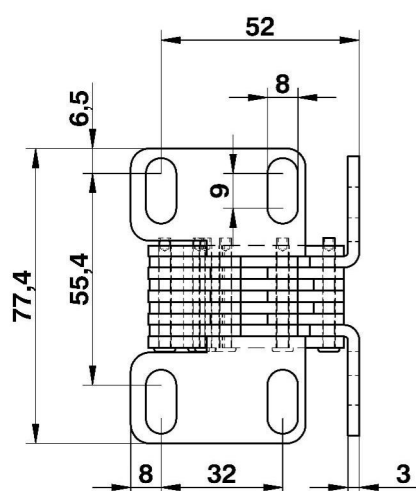
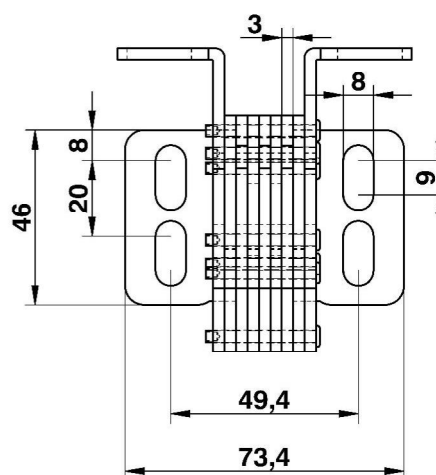
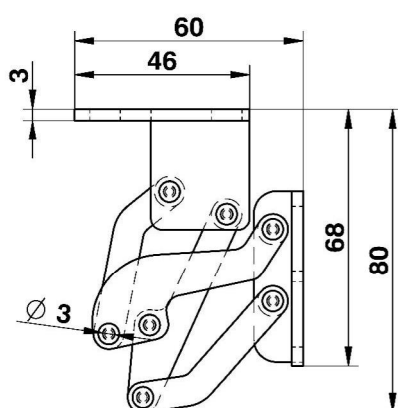
## Concealed hinges

Art.no.:91.1071.03

Hinge for invisible fence  
Opening angle: ca.110°



| Article no. |           |             |     |
|-------------|-----------|-------------|-----|
| Series      | Execution | Material    |     |
|             |           | Zinc plated | Raw |
| 91.1071     | .03       | .04         | .30 |

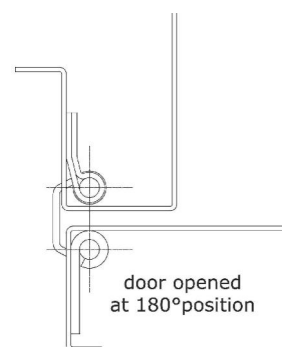
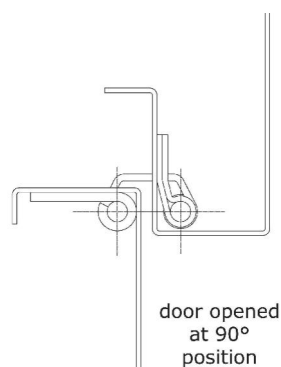
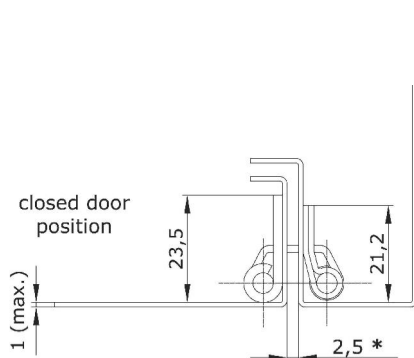
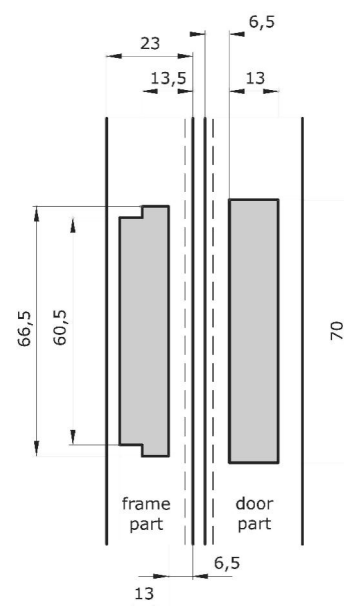
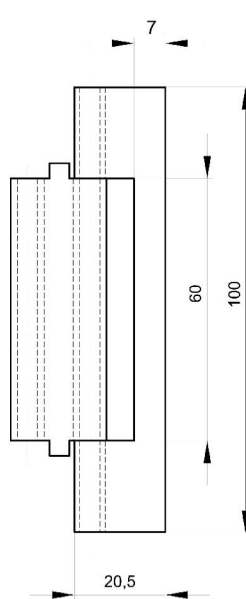
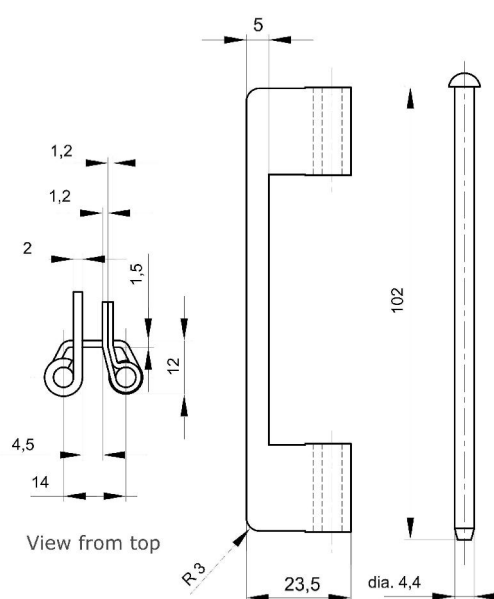
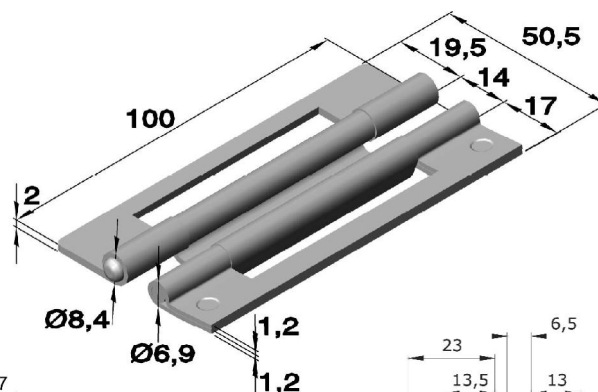


## Concealed hinges

Art. no.: 6069

Hinge for invisible fence with an extractable steel pin  
Opening angle: 180°

| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
| 6069        | .00       | Raw      |
|             |           | Steel    |



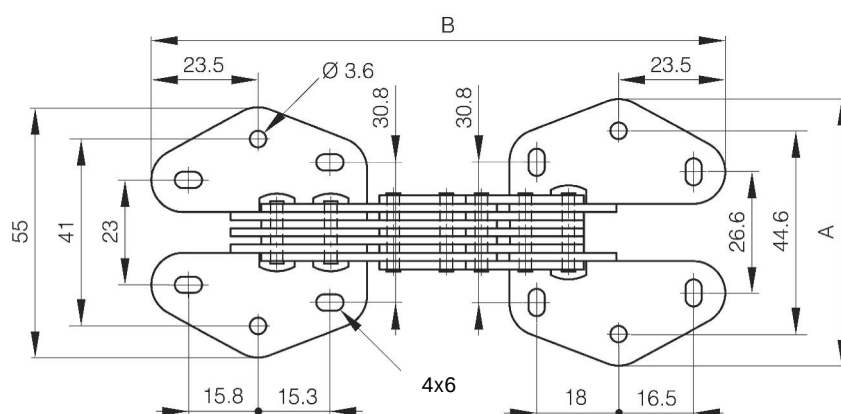
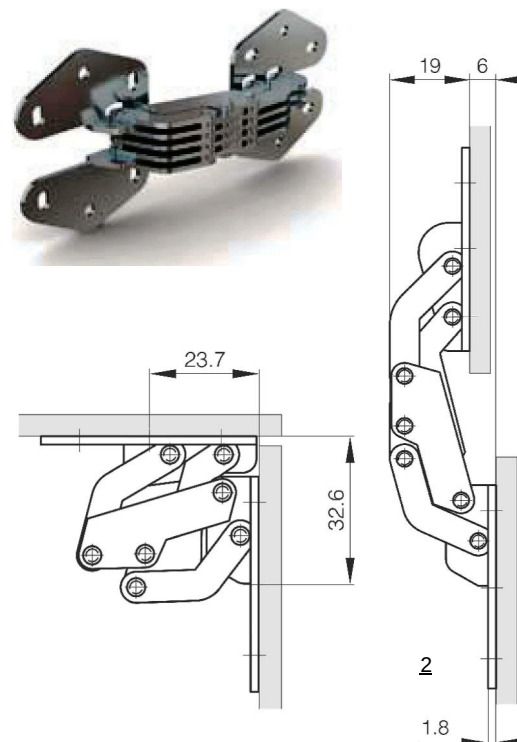
## Concealed hinges

### Art.no.:6069

Hinge for invisible fence

Opening angle: 90°

| Article no. |           |                      | Dimensions in mm |       |
|-------------|-----------|----------------------|------------------|-------|
| Series      | Execution | Material             | A                | B     |
|             |           | Zinc plated<br>Steel |                  |       |
| 6069        | .05       | .04                  | 58,6             | 126,5 |



### Art.no.:6069

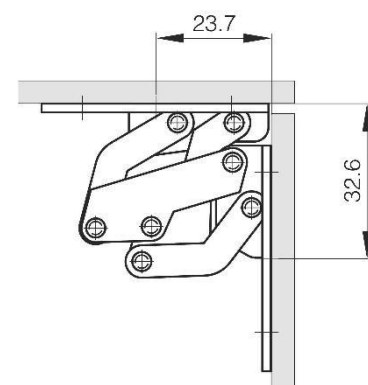
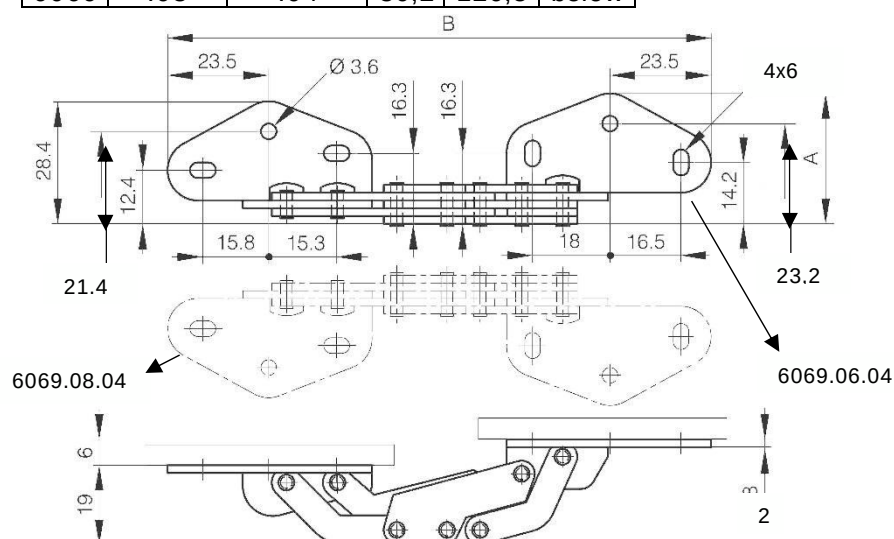
Hinge for invisible fence

Opening angle: 90°

| Article no. |           |                      | Dimensions in mm |       |       |
|-------------|-----------|----------------------|------------------|-------|-------|
| Series      | Execution | Material             | A                | B     |       |
|             |           | Zinc plated<br>Steel |                  |       |       |
| 6069        | .06       | .04                  | 30,2             | 126,5 | above |
| 6069        | .08       | .04                  | 30,2             | 126,5 | below |

Execution:

\_\_ .08

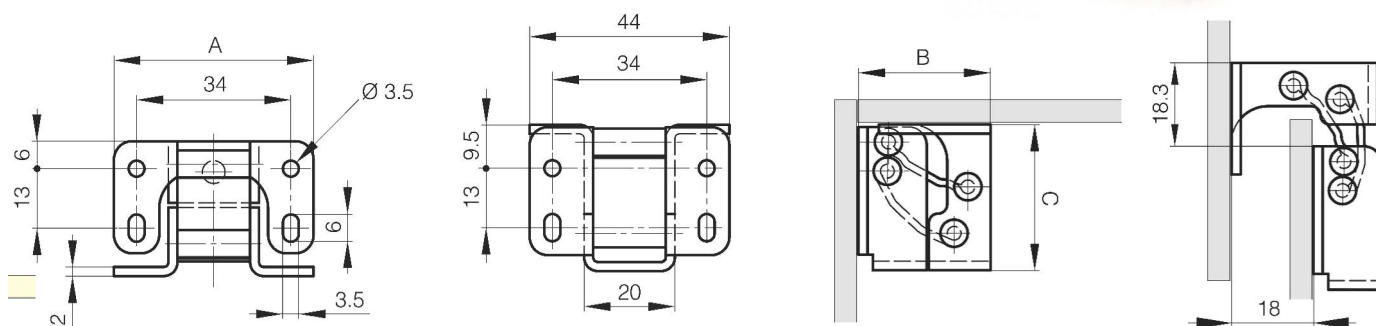


## Concealed hinges

### Art. no.: 6069

Hinge for invisible fence with 90° opening angle

| Article no. |           |             | Dimensions in mm |    |    |
|-------------|-----------|-------------|------------------|----|----|
| Series      | Execution | Material    | A                | B  | C  |
|             |           | Zinc plated |                  |    |    |
| 6069        | .04       | Steel       | 44               | 29 | 32 |

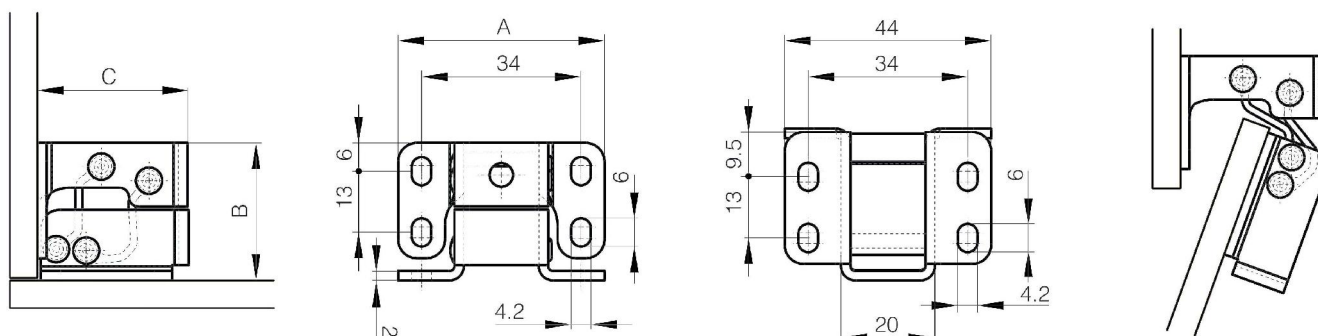


### Art.no.:6069

Hinge with invisible fence

Opening angle: 125°

| Article no. |           |             |                 | Dimensions in mm |    |    |
|-------------|-----------|-------------|-----------------|------------------|----|----|
| Series      | Execution | Material    |                 | A                | B  | C  |
|             |           | Zinc plated | Raw             |                  |    |    |
|             |           | Steel       | Stainless steel |                  |    |    |
| 6069        | .18       | .04         | .35             | 44               | 29 | 32 |





## Concealed hinges

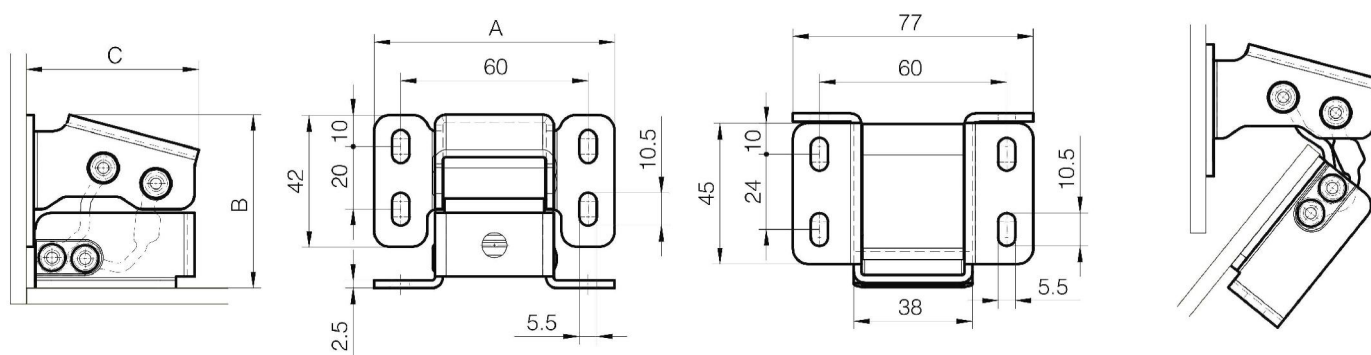
### Art.no.:6069

Hinge for invisible fence

Opening angle: 125°



| Article no. |           |             |                 | Dimensions in mm |      |    |
|-------------|-----------|-------------|-----------------|------------------|------|----|
| Series      | Execution | Material    |                 | A                | B    | C  |
|             |           | Zinc plated | Raw             |                  |      |    |
|             |           | Steel       | Stainless steel |                  |      |    |
| 6069        | .19       | 04          | .35             | 77               | 55,2 | 54 |

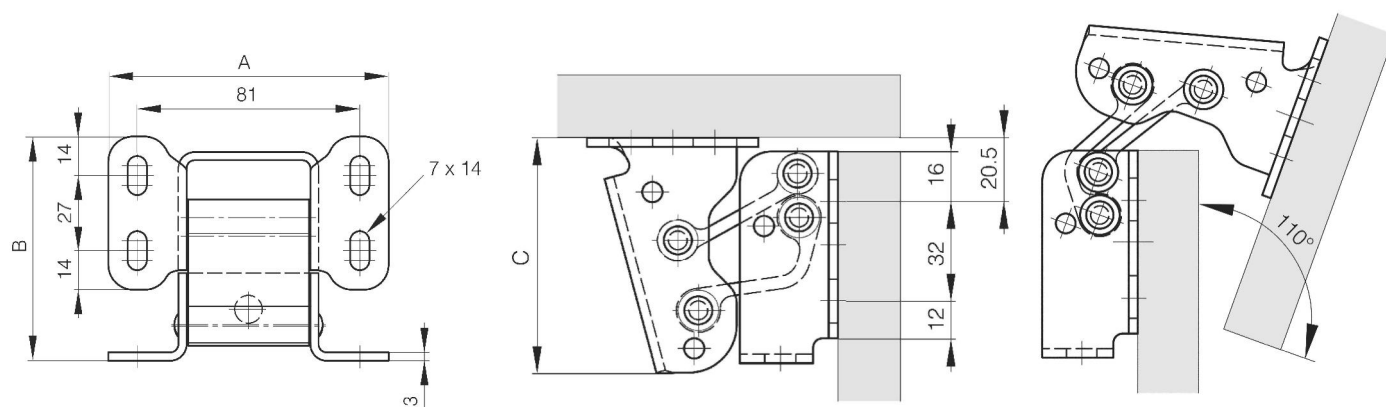


### Art. no.: 6589

Hinge for invisible fence with 110° opening angle

Articulated parts made of anodized aluminium

| Article no. |             | Dimensions in mm |      |    |
|-------------|-------------|------------------|------|----|
| Series      | Material    | A                | B    | C  |
|             | Zinc plated |                  |      |    |
|             | Steel       |                  |      |    |
| 6589        | .04         | 102              | 80,5 | 76 |





## Concealed hinges

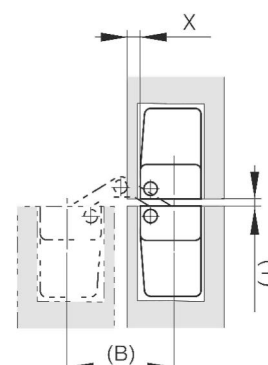
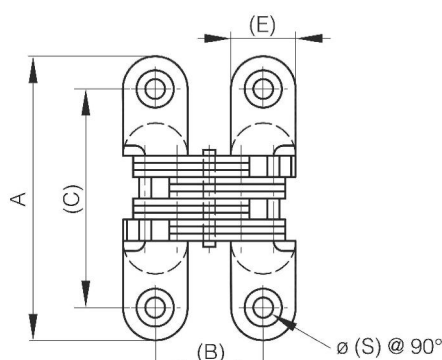
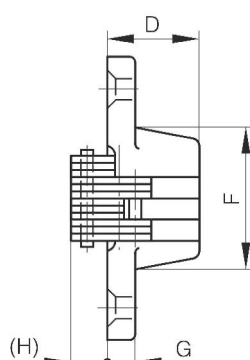
### Art. no.: 6069

with fence

Opening angle: 180°

Articulation made of stainless steel

| Article no. |           |                    | Dimensions in mm |      |    |      |      |    |     |     |     |      |     |
|-------------|-----------|--------------------|------------------|------|----|------|------|----|-----|-----|-----|------|-----|
| Series      | Execution | Material           | A                | B    | C  | D    | E    | F  | G   | H   | S   | X    | Y   |
|             |           | Chromated<br>Zamak |                  |      |    |      |      |    |     |     |     |      |     |
| 6069        | .09       | .53                | 43               | 18   | 32 | 13   | 11   | 22 | 5   | 5   | 3,5 | ≤2,3 | 0,8 |
| 6069        | .10       | .53                | 45               | 22,7 | 32 | 18,5 | 13   | 19 | 5   | 6   | 3,5 | ≤3   | 0,8 |
| 6069        | .11       | .53                | 60               | 22,2 | 47 | 18,5 | 13   | 33 | 6,5 | 6,5 | 4,3 | ≤3   | 1   |
| 6069        | .12       | .53                | 70               | 26,6 | 53 | 23   | 16,1 | 35 | 7   | 9   | 4,6 | ≤3,5 | 1,2 |
| 6069        | .13       | .53                | 100              | 33,2 | 80 | 27,5 | 20   | 52 | 9,5 | 9,5 | 5,3 | ≤4,8 | 1,8 |

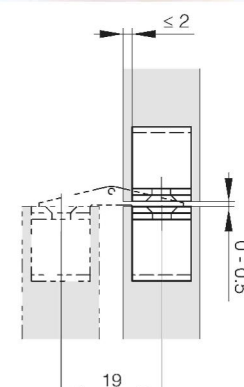
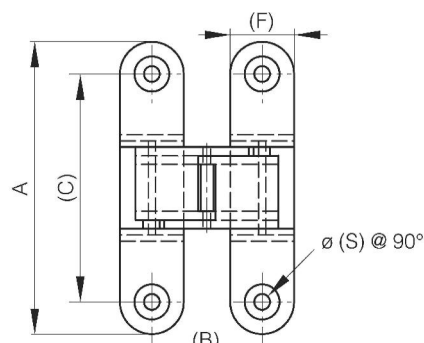
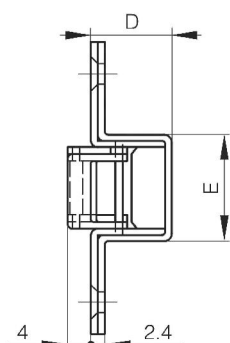


### Art. no.: 6069

Hinge for invisible fence

Opening angle 180°

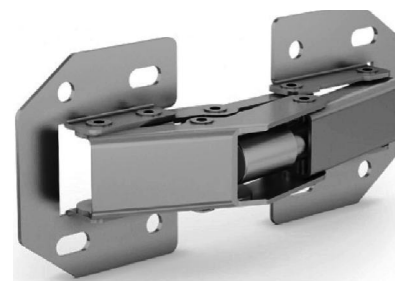
| Article no. |           |                                   | Dimensions in mm |    |    |    |      |    |     |  |
|-------------|-----------|-----------------------------------|------------------|----|----|----|------|----|-----|--|
| Series      | Execution | Material                          | A                | B  | C  | D  | E    | F  | S   |  |
|             |           | Satin finished<br>Stainless steel |                  |    |    |    |      |    |     |  |
| 6069        | .14       | .30                               | 50               | 19 | 38 | 14 | 18,2 | 11 | 2,7 |  |



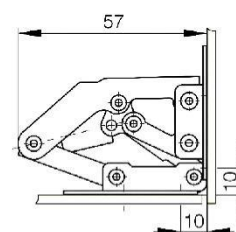
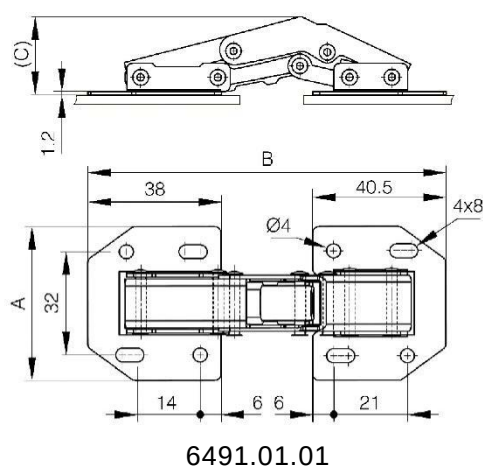
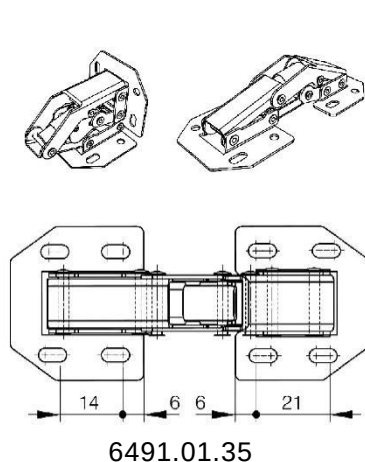
## Concealed hinges

### Art.no. 6491

Hinge for invisible fence  
Opening angle 90°

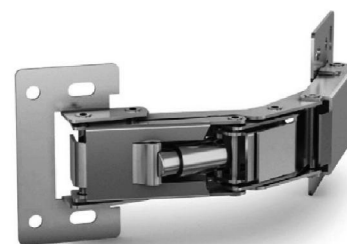


| Article no. |           |                     |                     | Dimensions in mm |       |    |
|-------------|-----------|---------------------|---------------------|------------------|-------|----|
| Series      | Execution | Material            |                     | A                | B     | C  |
|             |           | Nickel plated Steel | Raw Stainless steel |                  |       |    |
| 6491        | .01       | .01                 | .35                 | 44               | 104,5 | 70 |

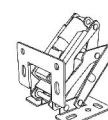
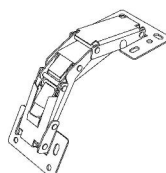
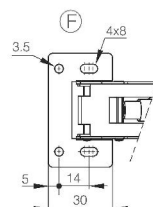
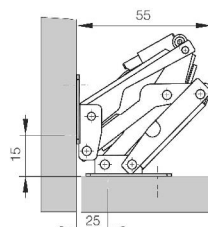
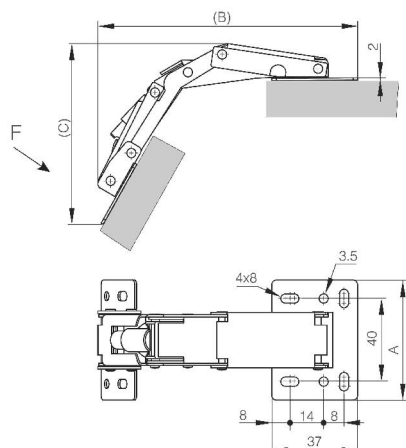


### Art.no. 6492

Hinge for invisible fence  
Opening angle: 90°



| Article no. |           |                     |                                  | Dimensions in mm |     |    |
|-------------|-----------|---------------------|----------------------------------|------------------|-----|----|
| Series      | Execution | Material            |                                  | A                | B   | C  |
|             |           | Nickel plated Steel | Electro polished Stainless steel |                  |     |    |
| 6492        | .01       | .01                 | .33                              | 52               | 112 | 81 |



## Concealed hinges

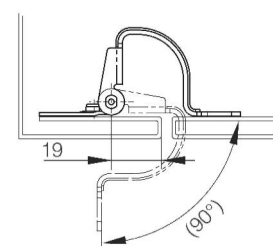
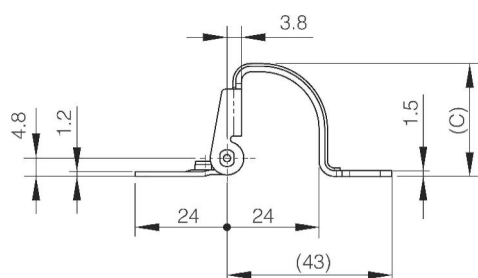
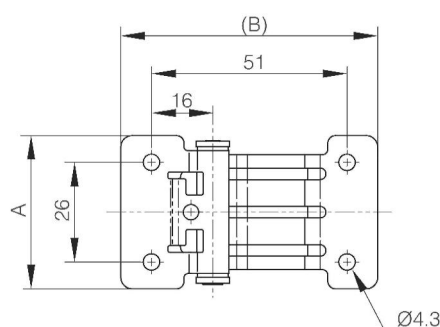
### Art.no. 6493

Hinge for invisible fence with constant torques

The torque amounts 0.7 N.m (-20% / +40%)



| Article no. |           |                        | Dimensions in mm |    |      |
|-------------|-----------|------------------------|------------------|----|------|
| Series      | Execution | Material               | A                | B  | C    |
|             |           | Raw<br>Stainless steel |                  |    |      |
| 6493        | .01       | .33                    | 40               | 67 | 29,5 |



### Art. no.: 6127

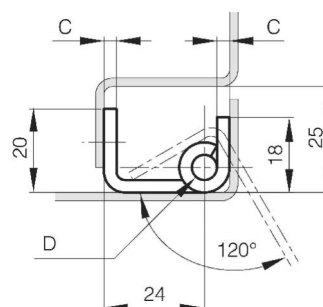
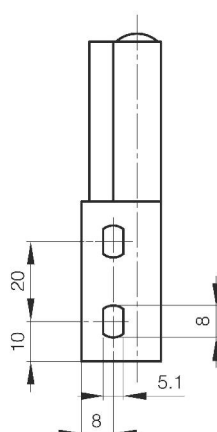
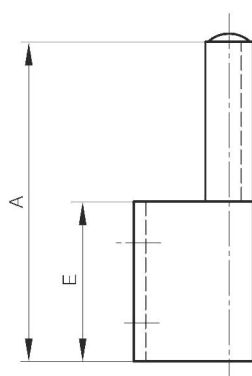
Hinge for invisible fence

Opening angle: 120°

With extractable pin

Hinge can be assembled at left or right direction

| Article no. |           |              |                        | Dimensions in mm |   |   |    |
|-------------|-----------|--------------|------------------------|------------------|---|---|----|
| Series      | Execution | Material     |                        | A                | C | D | E  |
|             |           | Raw<br>Steel | Raw<br>Stainless steel |                  |   |   |    |
| 6127        | .01       | .00          | .30                    | 80               | 3 | 6 | 40 |



## Concealed hinges

Art. no.: 6127

Hinge for invisible fence

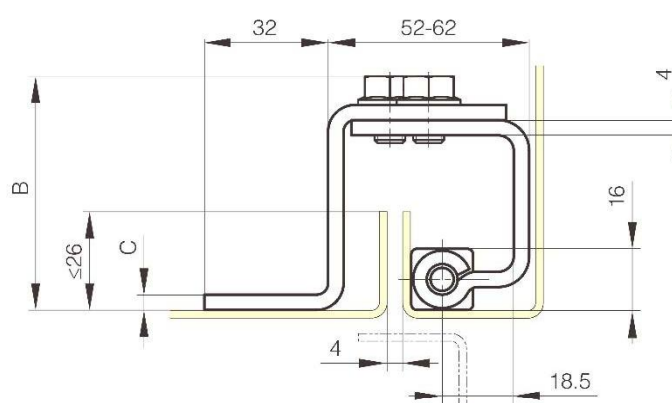
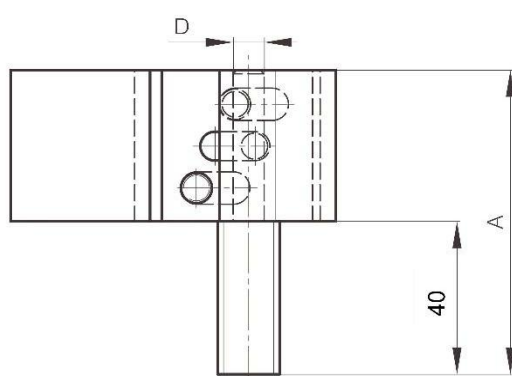
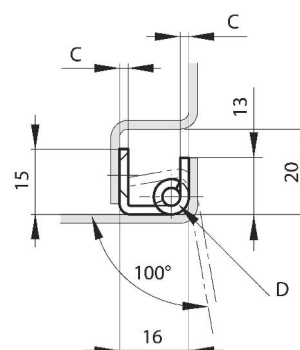
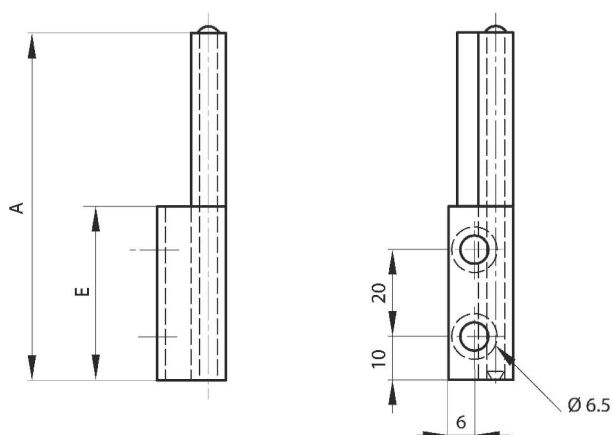
Opening angle: 100°

With extractable pin

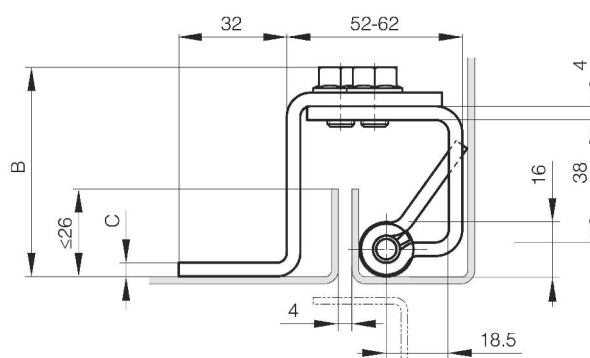
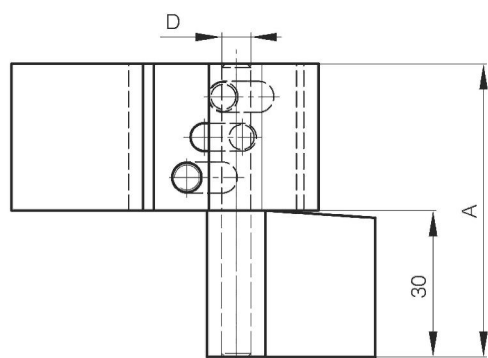
Hinge can be assembled at left or right direction



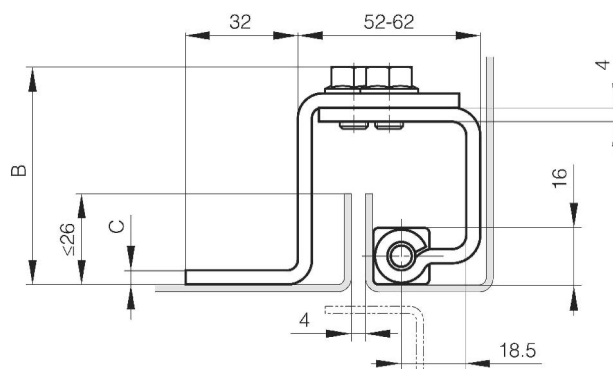
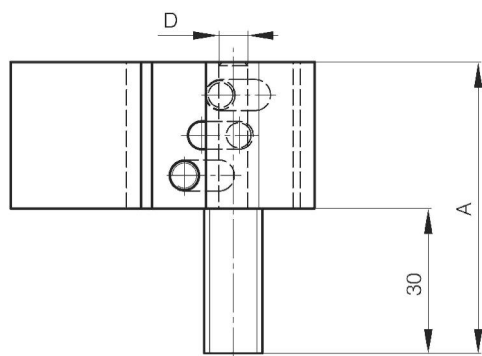
| Article no. |           |           |                     | Dimensions in mm |   |   |    |
|-------------|-----------|-----------|---------------------|------------------|---|---|----|
| Series      | Execution | Material  |                     | A                | C | D | E  |
|             |           | Raw steel | Raw Stainless steel |                  |   |   |    |
| 6127        | .02       | .00       | .30                 | 80               | 2 | 4 | 40 |



Hinge can be assembled at left or right direction



Hinge can be assembled at left or right direction



## Concealed hinges

### Art. no.: 6103

Hinge for invisible fence

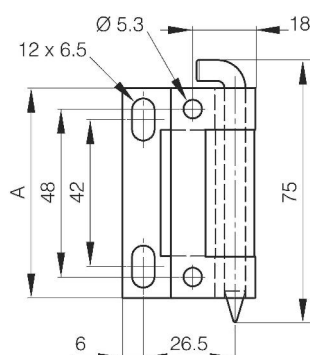
Opening angle: 20°

With extractable pin

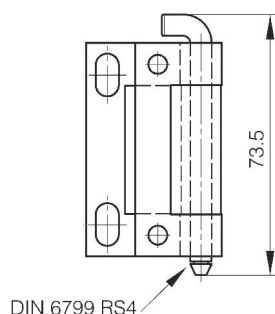
| Article no. |           |             |                 | Dimensions in mm |     |   |
|-------------|-----------|-------------|-----------------|------------------|-----|---|
| Series      | Execution | Material    |                 | A                | C   | D |
|             |           | Zinc plated | Raw             |                  |     |   |
|             |           | steel       | Stainless steel |                  |     |   |
| 6103        | .01       | .04         | .30             | 60               | 2,5 | 6 |
| 6103        | .02       | .04         | .30             | 60               | 2,5 | 6 |
| 6103        | .03       | .04         | .30             | 60               | 2,5 | 6 |



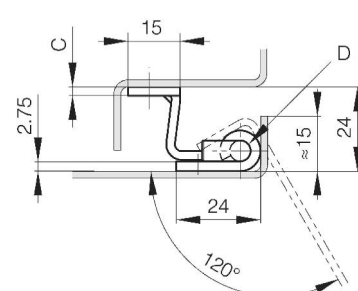
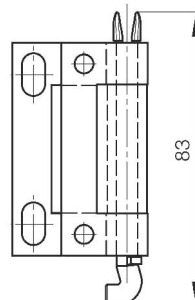
Execution: .01



Execution: .02  
Pin with nut



Execution: .03  
POM pin



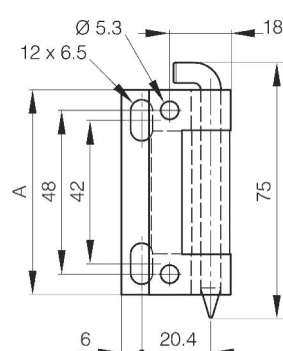
### Art. no.: 6104

Hinge for invisible fence with 120° opening angle

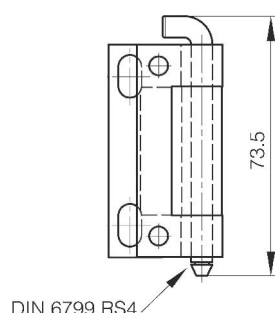
With extractable pin

| Article no. |           |             |                 | Dimensions in mm |     |   |
|-------------|-----------|-------------|-----------------|------------------|-----|---|
| Series      | Execution | Material    |                 | A                | C   | D |
|             |           | Zinc plated | Raw             |                  |     |   |
|             |           | Steel       | Stainless steel |                  |     |   |
| 6104        | .01       | .04         | .30             | 60               | 2,5 | 6 |
| 6104        | .02       | .04         | .30             | 60               | 2,5 | 6 |
| 6104        | .03       | .04         | .30             | 60               | 2,5 | 6 |

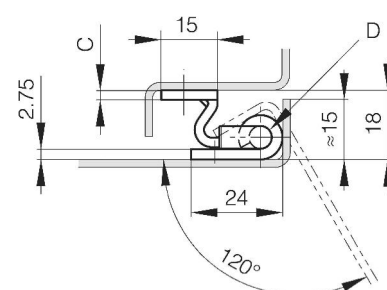
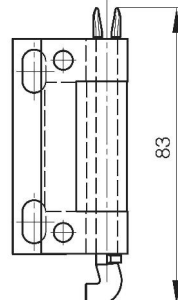
Execution: .01



Execution: .02  
pin with nut



Execution: .03  
POM pin



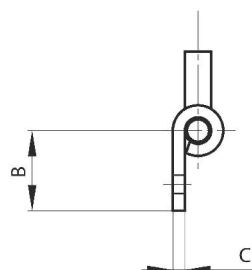
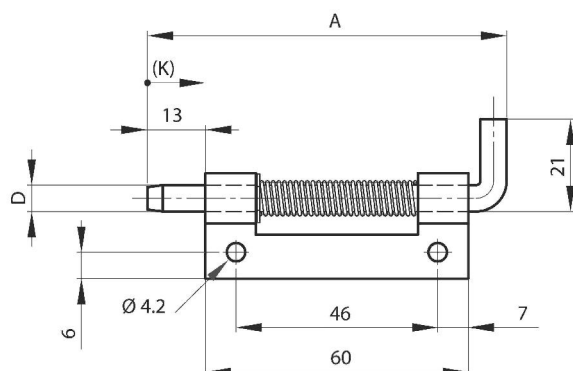


## Concealed hinges

### Art. no.: 6100

Hinges with spring-loaded pins  
For assembly / disassembly of doors and flaps

| Series | Article no. |      |           |                   |                     | Dimensions in mm |      |     |   |    |
|--------|-------------|------|-----------|-------------------|---------------------|------------------|------|-----|---|----|
|        | Execution   |      | Material  |                   |                     | A                | B    | C   | D | K  |
|        | Right       | Left | Raw Steel | Zinc plated Steel | Raw Stainless steel |                  |      |     |   |    |
| 6100   | .01         | .02  | -         | .04               | -                   | 82               | 18,2 | 2,8 | 6 | 12 |
| 6100   | .04         | .03  | .00       | -                 | -                   | 82               | 18,2 | 2,8 | 6 | 12 |
| 6100   | .05         | .06  | -         | -                 | .30                 | 82               | 18,2 | 2,8 | 6 | 12 |



Execution:  
Left



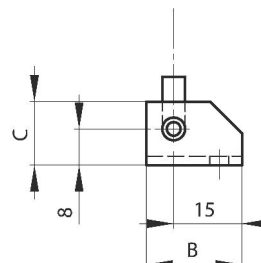
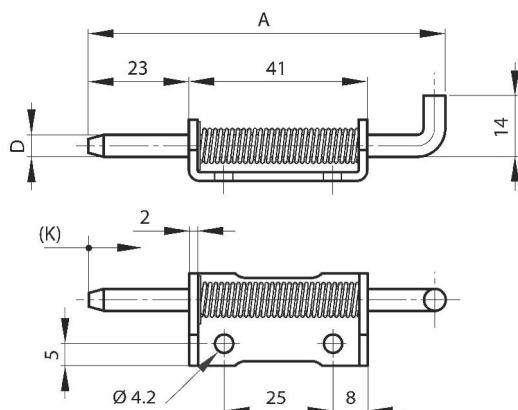
Execution:  
Right



### Art. no.: 6102

Hinges with spring-loaded pins  
For assembly / disassembly of doors and flaps

| Series | Article no. |      |           |                   |                     | Dimensions in mm |    |    |   |    |
|--------|-------------|------|-----------|-------------------|---------------------|------------------|----|----|---|----|
|        | Execution   |      | Material  |                   |                     | A                | B  | C  | D | K  |
|        | Right       | Left | Raw Steel | Zinc plated Steel | Raw Stainless steel |                  |    |    |   |    |
| 6102   | .01         | .02  | .00       | -                 | -                   | 82               | 21 | 14 | 5 | 12 |
| 6102   | .03         | .04  | -         | .04               | -                   | 82               | 21 | 14 | 5 | 12 |
| 6102   | .06         | .05  | -         | -                 | .30                 | 82               | 21 | 14 | 5 | 12 |



Execution:  
Left



Execution:  
Right



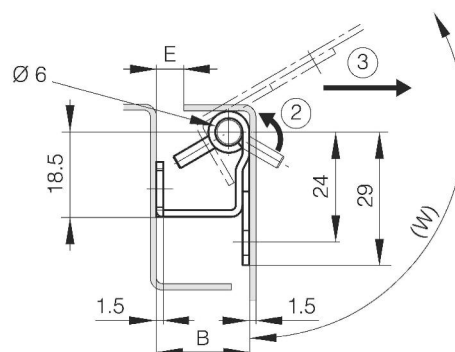
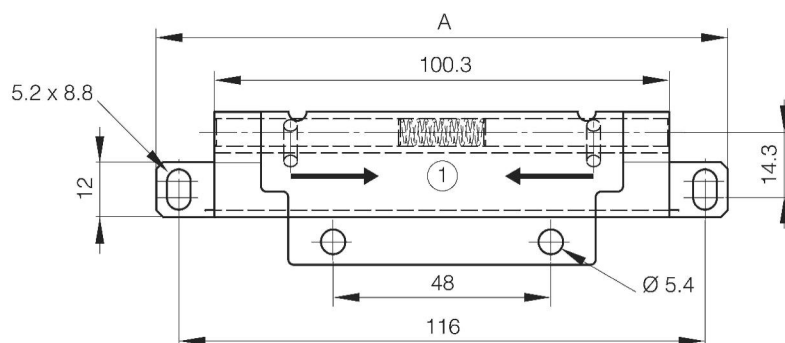
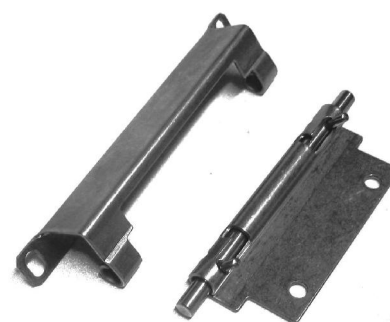
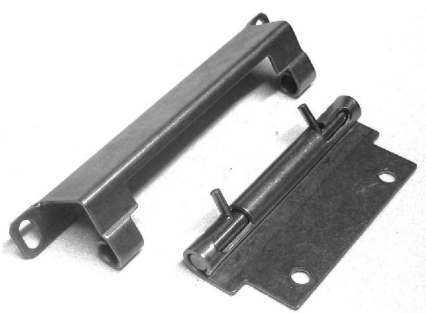
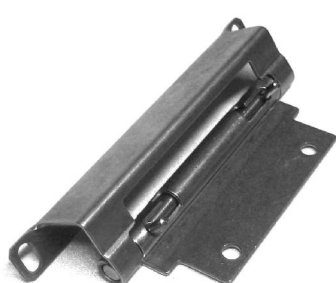
## Concealed hinges

### Art. no.: 6588

Two-part hinge for the invisible fence

With spring-loaded pin for assembly / disassembly of doors and flaps

| Article no. |           |                        | Dimensions in mm |      |     |      |
|-------------|-----------|------------------------|------------------|------|-----|------|
| Series      | Execution | Material               | A                | B    | E   | W    |
|             |           | Raw<br>Stainless steel |                  |      |     |      |
| 6588        | .01       | .30                    | 126              | 17,5 | 3   | 122° |
| 6588        | .02       | .30                    | 126              | 20,5 | 4   | 117° |
| 6588        | .03       | .30                    | 126              | 23,5 | 4,5 | 112° |



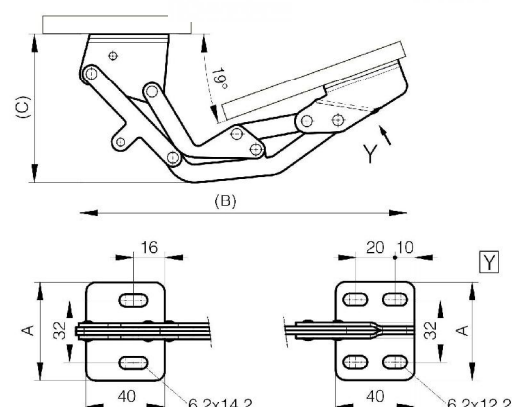
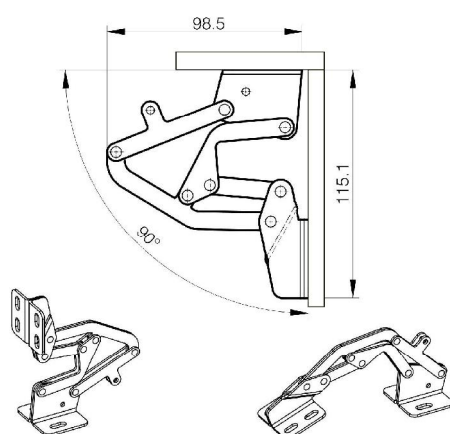
## Concealed hinges

Art.no.:6214

For horizontally application only.



| Article no. |                      |                      | Dimensions in mm |     |      |
|-------------|----------------------|----------------------|------------------|-----|------|
| Series      | Execution            | Material             | A                | B   | C    |
|             |                      | Zinc plated<br>Steel |                  |     |      |
| 6214        | (without spring) .01 | .04                  | 50               | 166 | 74,7 |



Art.no.:6214

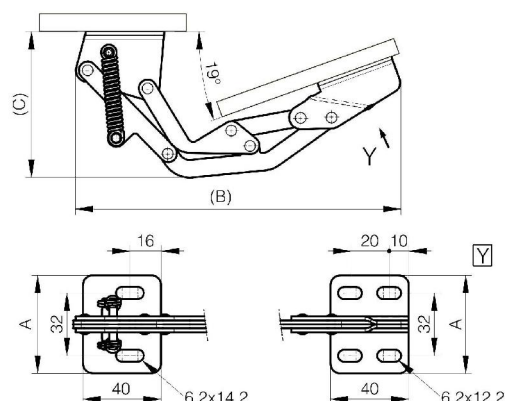
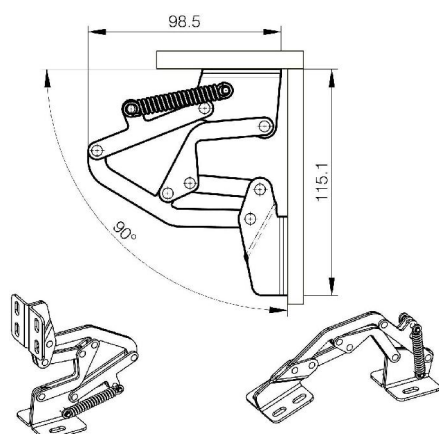
For horizontally application only.

Torque of the spring „opening“: 1 N.m / hinge

Torque of the spring „closing“: 3 N.m / hinge



| Article no. |                   |                      | Dimensions in mm |     |      |
|-------------|-------------------|----------------------|------------------|-----|------|
| Series      | Execution         | Material             | A                | B   | C    |
|             |                   | Zinc plated<br>Steel |                  |     |      |
| 6214        | (with spring) .02 | .04                  | 50               | 166 | 74,7 |



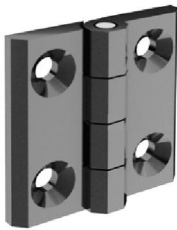
# Concealed hinges

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## Hinges for vehicle construction and plant engineering



Art.no.: 4001



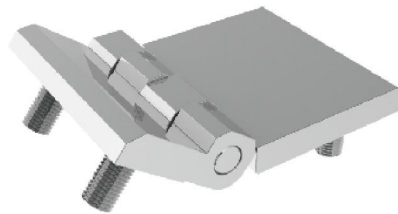
Art.no.: 4001



Art.no.: 4002



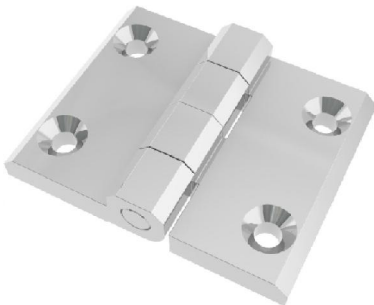
Art.no.: 4002



Art.no.: 4014



Art.no.: HC90



Art.no.: HF50



Art.no.: HF50



Art.no.: HF59



Art.no.: HS50



Art.no.: HC10



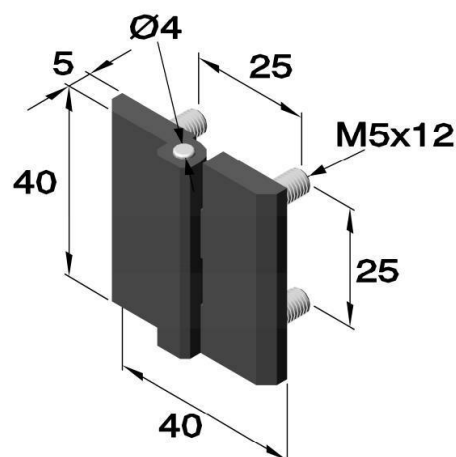
Art.no.: HS40

## Hinges for vehicle construction and plant engineering

**Art.no.: 4002** (with threaded pin)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

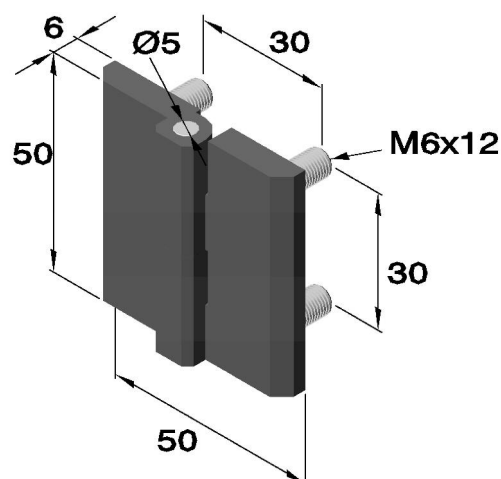
| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| 4002        | .01       | .53           | .57          |



**Art.no.: 4002** (with threaded pin)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

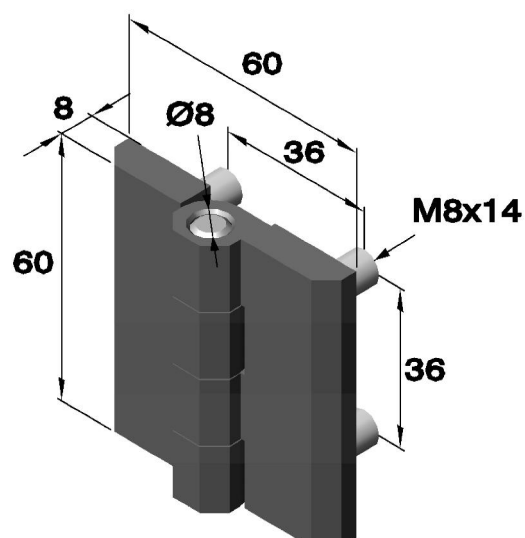
| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| HF30        | .03       | .53           | .57          |



**Art.no.: 4002** (with threaded pin)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| 4002        | .04       | .53           | .57          |



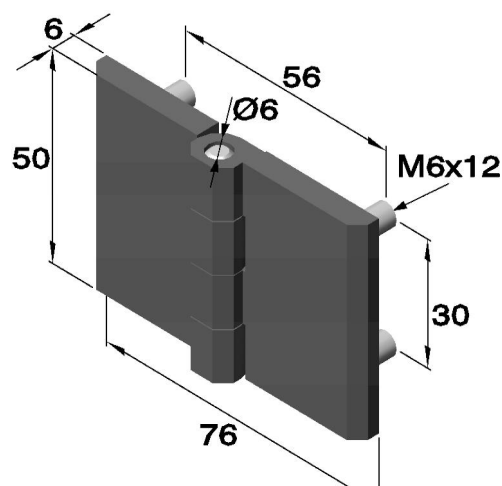


## Hinges for vehicle construction and plant engineering

**Art.no.: 4012** (with threaded pin)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

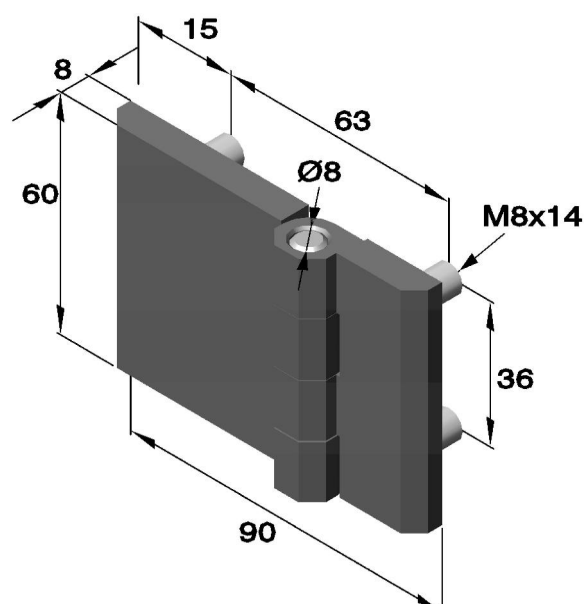
| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| 4012        | .01       | .53           | .57          |



**Art.no.: 4014** (with threaded pin)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

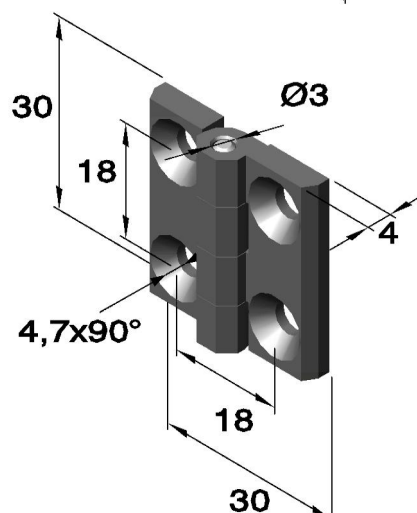
| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| 4014        | .01       | .53           | .57          |



**Art.no.: 4001** (drilled and countersunk)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

| Article no. |           |               |              |
|-------------|-----------|---------------|--------------|
| Series      | Execution | Material      |              |
|             |           | Chrome plated | Black coated |
|             |           | Zamak         | Zamak        |
| 4001        | .01       | .53           | .57          |



## Hinges for vehicle construction and plant engineering

**Art.no.: 4001** (drilled and countersunk)  
with pin in stainless steel

Material and surface:

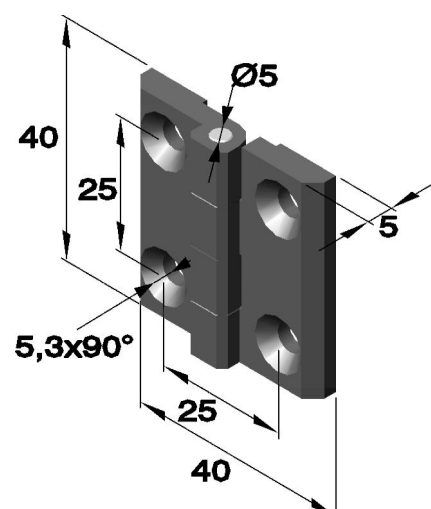
Zinc diecasting (Zamak) chrome plated

Zinc diecasting (Zamak) black coated

Stainless steel satin finished

Polyamid raw

| Article no. |           |               |              |                 |           |
|-------------|-----------|---------------|--------------|-----------------|-----------|
| Series      | Execution | Material      |              |                 |           |
|             |           | Chrome plated | Black coated | Satin finished  | Black     |
|             |           | Zamak         | Zamak        | Stainless steel | Polyamide |
| 4001        | .02       | .53           | .57          | .35             | .87       |



**Art.no.: 4001** (drilled and countersunk)  
with pin in stainless steel

Material and surface:

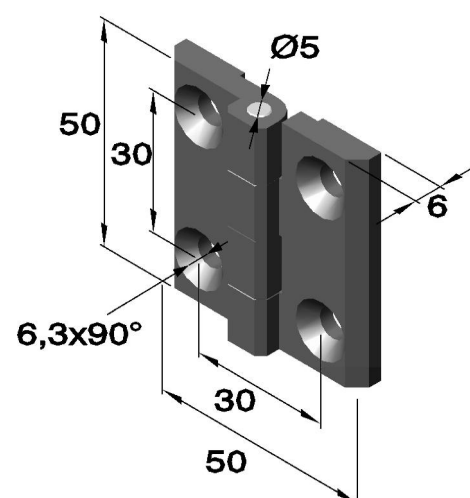
Zinc diecasting (Zamak) chrome plated

Zinc diecasting (Zamak) black coated

Stainless steel satin finished

Polyamid raw

| Article no. |           |               |              |                 |           |
|-------------|-----------|---------------|--------------|-----------------|-----------|
| Series      | Execution | Material      |              |                 |           |
|             |           | Chrome plated | Black coated | Satin finished  | Black     |
|             |           | Zamak         | Zamak        | Stainless steel | Polyamide |
| 4001        | .03       | .53           | .57          | .35             | .87       |

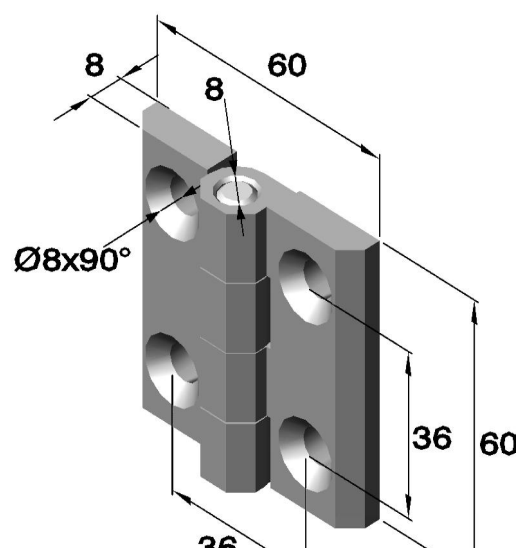


**Art.no.: 4001** (drilled and countersunk)  
with pin in stainless steel

Material and surface:

Stainless steel satin finished

| Article no. |           |               |       |                 |
|-------------|-----------|---------------|-------|-----------------|
| Series      | Execution | Material      |       |                 |
|             |           | Chrome plated | Black | Satin finished  |
|             |           | Zamak         | Zamak | Stainless steel |
| 4001        | .04       | .53           | .57   | .35             |

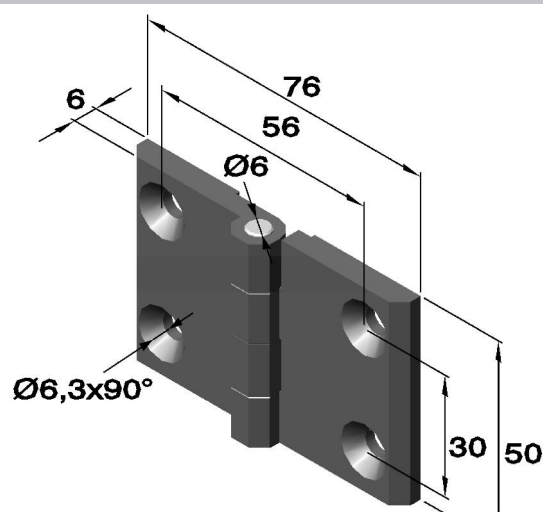


## Hinges for vehicle construction and plant engineering

**Art.no.: 4011** (drilled and countersunk)  
with pin in stainless steel

Material und surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coatet  
Stainless steel satin finished

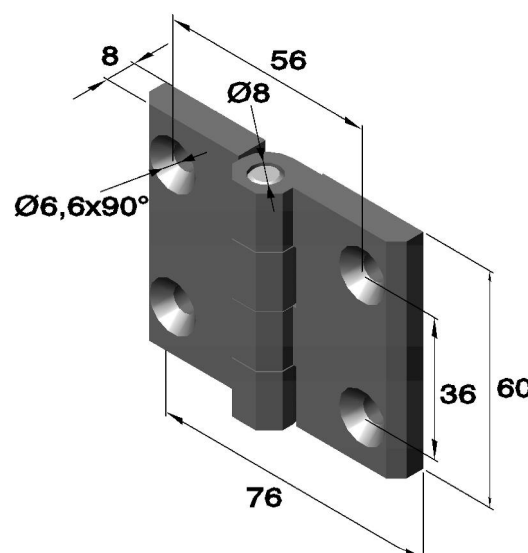
| Article no. |           |               |              |                 |
|-------------|-----------|---------------|--------------|-----------------|
| Series      | Execution | Material      |              |                 |
|             |           | Chrome plated | Black coated | Satin finished  |
|             |           | Zamak         | Zamak        | Stainless steel |
| 4011        | .01       | .53           | .57          | .35             |



**Art.no.: HF50** (drilled and countersunk)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) black coated

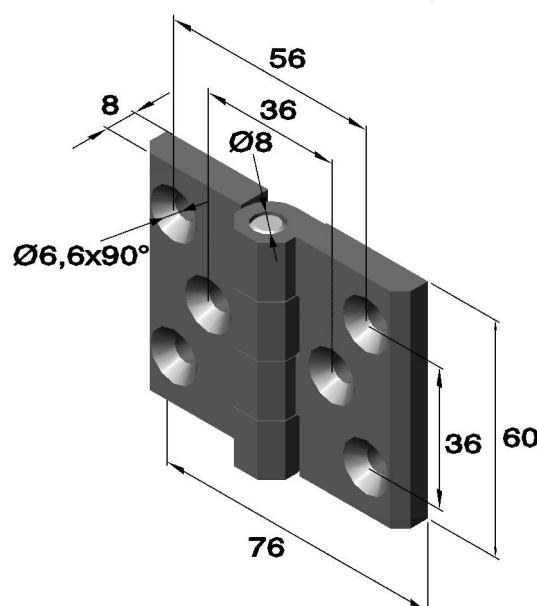
| Article no. |              |
|-------------|--------------|
| Series      | Material     |
|             | Black coated |
|             | Zamak        |
| HF50        | EH-T10-1     |



**Art.no.: HF50** (drilled and countersunk)  
with pin in stainless steel

Material and surface:  
Zinc diecasting (Zamak) black coated

| Article no. |              |
|-------------|--------------|
| Series      | Material     |
|             | Black coated |
|             | Zamak        |
| HF50        | EH-T13-1     |

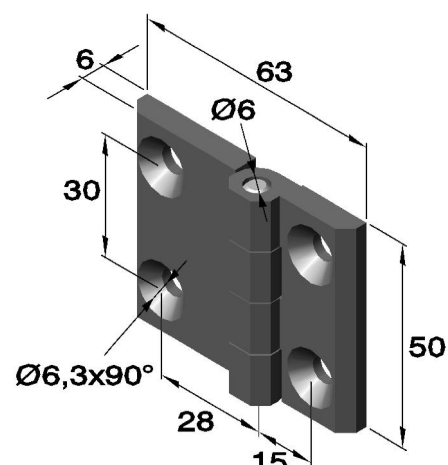


## Hinges for vehicle construction and plant engineering

**Art.no.: 4013** (drilled and countersunk)  
with pin stainless steel

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated  
Stainless steel satin finished

| Article no. |           |                 |              |
|-------------|-----------|-----------------|--------------|
| Series      | Execution | Material        |              |
|             |           | Satin finished  | Black coated |
|             |           | Stainless steel | Zamak        |
| 4013        | .01       | .35             | .57          |

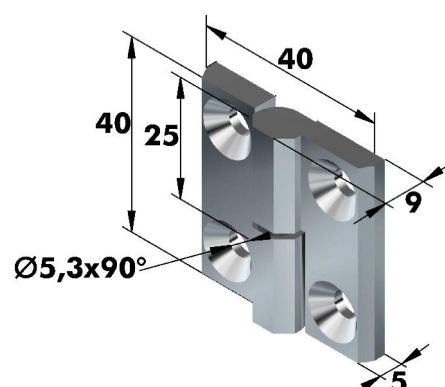


**Art.no.: 4101** (perforated and countersunk)  
with stainless steel pin

Material and surface:  
Zinc diecasting (Zamak) black coated, washer Polyamid black  
Stainless steel satin finished, washer stainless steel

| Article no. |           |                 |              |
|-------------|-----------|-----------------|--------------|
| Series      | Execution | Material        |              |
|             |           | Satin finished  | Black coated |
|             |           | Stainless steel | Zamak        |
| 4101        | .01       | .35             | .57          |
| 4101        | .02       | .35             | .57          |

Execution 01

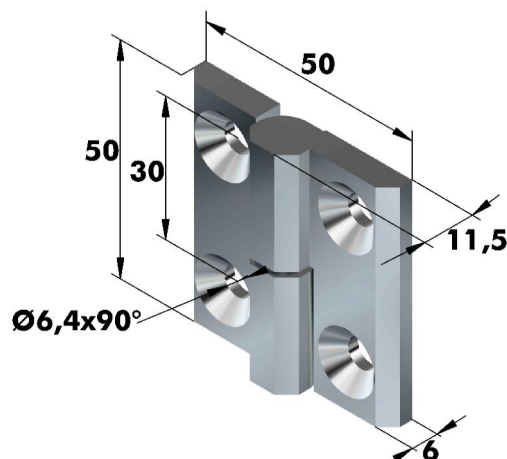


**Art.no.: 4102** (perforated and countersunk)  
with stainless steel pin

Material and surface:  
Zinc diecasting (Zamak) black coated, washer Polyamid black  
Stainless steel satin finished, washer Stainless steel

| Article no. |           |                 |              |
|-------------|-----------|-----------------|--------------|
| Series      | Execution | Werkstoff       |              |
|             |           | Satin finished  | Black coated |
|             |           | Stainless steel | Zamak        |
| 4102        | .01       | .35             | .57          |
| 4102        | .02       | .35             | .57          |

Execution .01



## Hinges for vehicle construction and plant engineering

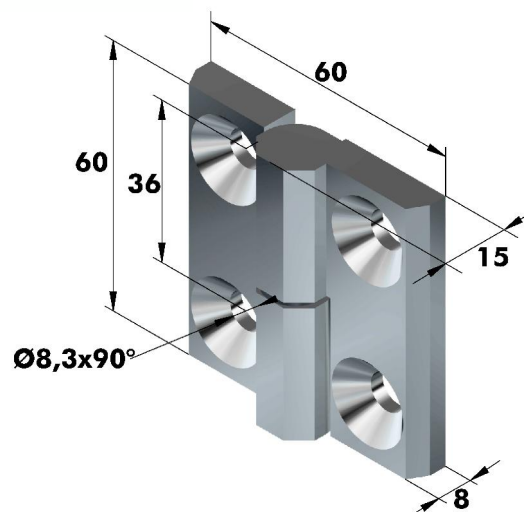
**Art.no.: 4103** (perforated and countersunk)  
with stainless steel pin

Material and surface:

Zinc diecasting (Zamak) black coated, washer Polyamid black  
Stainless steel satin finished, washer stainless steel

| Article no. |           |                |              |
|-------------|-----------|----------------|--------------|
| Series      | Execution | Material       |              |
|             |           | Satin finished | Black coated |
| 4103        | .01       | .35            | .57          |
| 4103        | .02       | .35            | .57          |

Execution .01

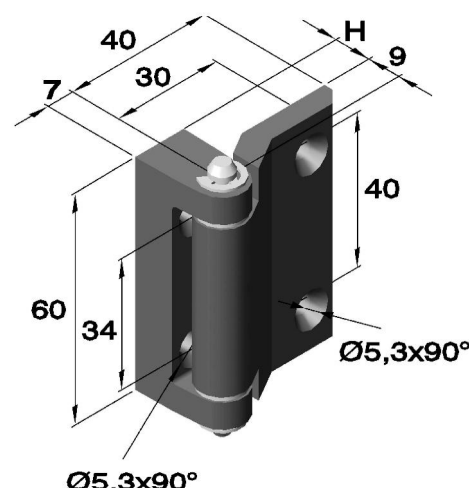


**Art.no.: HC90** (drilled and countersunk)  
with pin in hardened steel

Material and surface:

Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated  
Stainless steel finished

| Article no. |               |              |                 | Dimensions<br>in mm |
|-------------|---------------|--------------|-----------------|---------------------|
| Series      | Material      |              |                 |                     |
|             | Chrome plated | Black coated | Satin finished  |                     |
|             | Zamak         | Zamak        | Stainless steel |                     |
| HC90        | ED-T-0        | EH-T-0       | ES-T-0          | 0                   |
| HC90        | ED-T-4        | EH-T-4       | -               | 4                   |
| HC90        | ED-T-6        | EH-T-6       | -               | 6                   |
| HC90        | ED-T-10       | EH-T-10      | -               | 10                  |

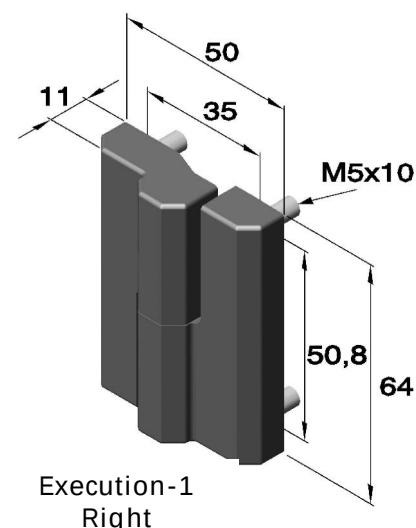


**Art.no.: HF59** (with threaded pins)  
with zinc plated pin

Material and surface:

Zinc diecasting (Zamak) black coated

| Article no. |              |       |
|-------------|--------------|-------|
| Series      | Material     |       |
|             | Black coated |       |
|             | Zamak        |       |
| HF59        | EH-1         | Right |
| HF59        | EH-2         | Left  |

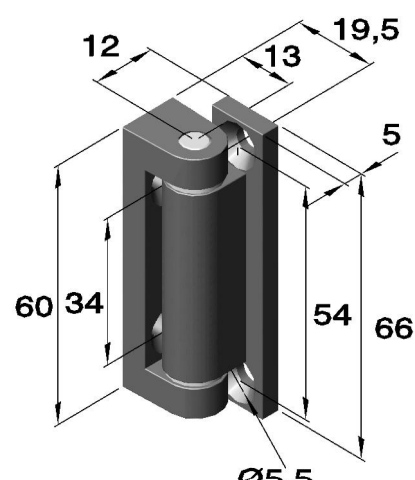


## Hinges for vehicle construction and plant engineering

**Art.no.: HS40** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

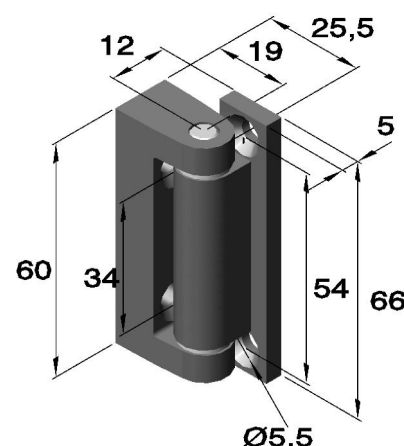
| Article no. |               |              |
|-------------|---------------|--------------|
| Series      | Material      |              |
|             | Chrome plated | Black coated |
|             | Zamak         | Zamak        |
| HS40        | ED-19         | EH-19        |



**Art.no.: HS40** (drilled and countersunk)  
with stainless steel pin

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

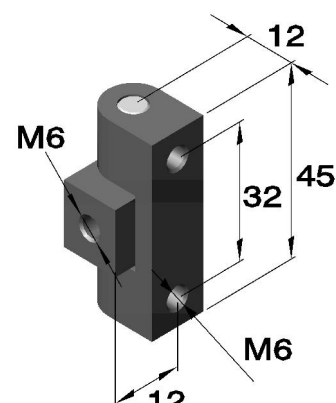
| Article no. |               |              |
|-------------|---------------|--------------|
| Series      | Material      |              |
|             | Chrome plated | Black coated |
|             | Zamak         | Zamak        |
| HS40        | ED-25         | EH-25        |



**Art.no.: HS50** (with internal thread)  
with stainless steel pin

Material and surface:  
Zinc diecasting (Zamak) chrome plated  
Zinc diecasting (Zamak) black coated

| Article no. |               |              |
|-------------|---------------|--------------|
| Series      | Material      |              |
|             | Chrome plated | Black coated |
|             | Zamak         | Zamak        |
| HS50        | ED-1          | EH-1         |





## Hinges for vehicle construction and plant engineering

**Art.no.: HC10** (with internal thread)  
with zinc plated pin

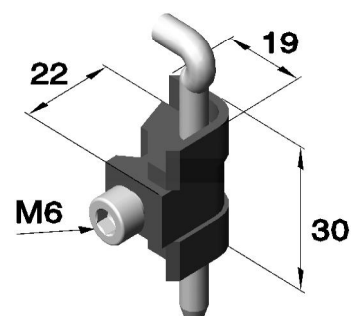
Sheet thickness: 1,5-2,0mm

Material and surface:

Zinc diecasting (Zamak) chrome plated

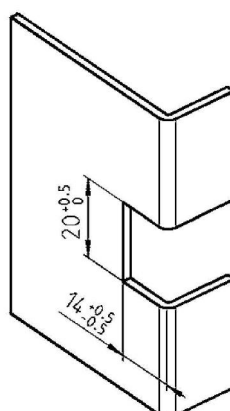
Zinc diecasting (Zamak) black coated

Stainless steel satin finished



| Article no. |               |              |          |
|-------------|---------------|--------------|----------|
| Series      | Material      |              |          |
|             | Chrome plated | Black coated | satined  |
|             | Zamak         | Zamak        | Zamak    |
| HC10        | ED-T20-1      | EH-T20-1     | ES-T20-1 |

Sheet metal cutout



# Hinges for vehicle construction and plant engineering

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## Aluminium hinges



Art.:6087



Art.:6023



Art.:6022



Art.:6848.70



Art.:158.5914



Art.:6876



Art.: 6088



Art.: 6872



Art.: 6871



Art.:158.5314



Art.:158.5414



Art.:158.5814



Art.:158.6117



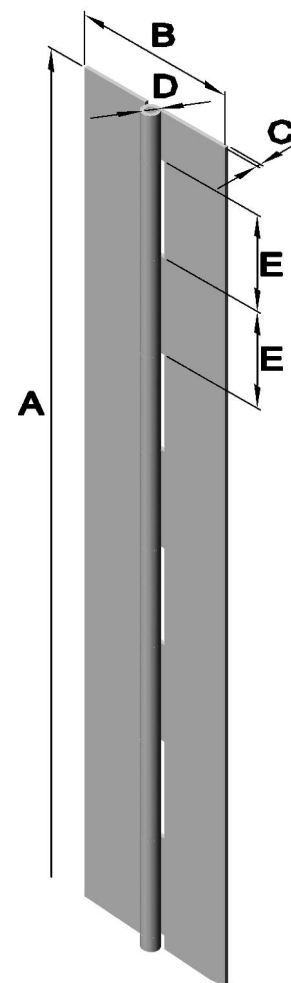
Art.:158.6117

## Aluminium hinges

### Aluminium piano hinge

rolled

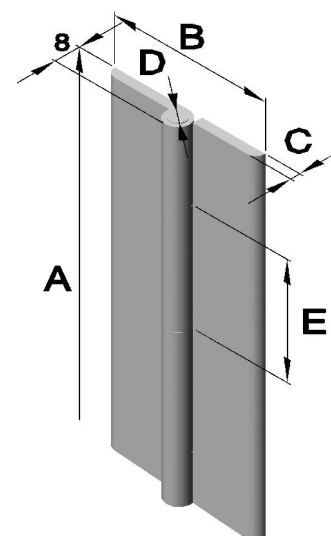
| Art.no. | Material  |           | Dimensions in mm |    |     |            |    |
|---------|-----------|-----------|------------------|----|-----|------------|----|
|         | Rod       | Pin       | A                | B  | C   | D<br>Pin Ø | E  |
| 6716.70 | Aluminium | Steel     | 2000             | 20 | 0,6 | 2,4        | 15 |
| 6725.70 | Aluminium | Steel     | 2000             | 25 | 0,8 | 2          | 15 |
| 6755.70 | Aluminium | Aluminium | 2000             | 35 | 1   | 3          | 30 |
| 6769.70 | Aluminium | Aluminium | 2000             | 40 | 1,2 | 3          | 20 |
| 6776.70 | Aluminium | Aluminium | 2040             | 40 | 1,5 | 6          | 15 |
| 6784.70 | Aluminium | Aluminium | 2000             | 50 | 1,2 | 3          | 20 |
| 6786.70 | Aluminium | Aluminium | 2000             | 50 | 1,5 | 4          | 15 |
| 6806.70 | Aluminium | Aluminium | 2000             | 60 | 2   | 6          | 30 |
| 6820.70 | Alu 5754  | Aluminium | 2000             | 80 | 3   | 6          | 40 |



### Aluminium profile hinge

Width 50

| Art no. | Material    |                 | Dimensions in mm |    |   |            |      |
|---------|-------------|-----------------|------------------|----|---|------------|------|
|         | Rod         | Pin             | A                | B  | C | D<br>Pin Ø | E    |
| 6848.70 | Alu 6060 T5 | Stainless steel | 2000             | 50 | 3 | 5,2        | 35,5 |



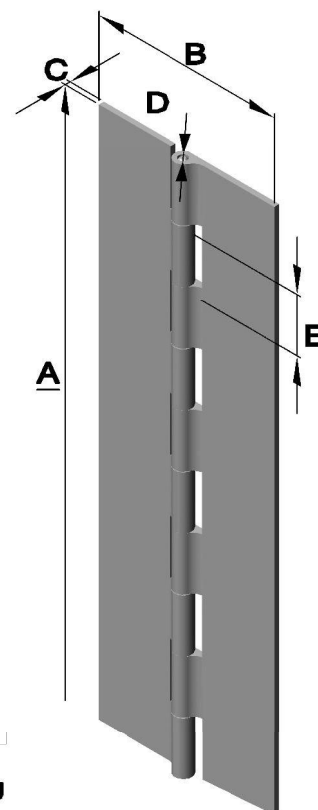
Another length/ drilling on request.

## Aluminium hinges

### Aluminium profile hinge

| Art no. | Material    |                 | Dimensions in mm |       |     |            |      |
|---------|-------------|-----------------|------------------|-------|-----|------------|------|
|         | Rod         | Pin             | A                | B     | C   | D<br>Pin Ø | E    |
| 6841.71 | Alu 6082 T5 | Stainless steel | 915              | 31,75 | 1,3 | 2,2        | 12,7 |
| 6849.70 | Alu 6082 T5 | Stainless steel | 1830             | 31,75 | 1,3 | 2,2        | 12,7 |
| 6842.70 | Alu 6082 T5 | Stainless steel | 915              | 44,45 | 1,3 | 2,2        | 12,7 |
| 6843.71 | Alu 6082 T5 | Stainless steel | 1830             | 44,45 | 1,3 | 2,2        | 12,7 |
| 6845.70 | Alu 6082 T5 | Stainless steel | 915              | 63,5  | 1,3 | 2,2        | 12,7 |
| 6847.71 | Alu 6082 T5 | Stainless steel | 1830             | 63,5  | 1,3 | 2,2        | 12,7 |

Another length/ drilling on request.



### Aluminium profile hinge with double joint

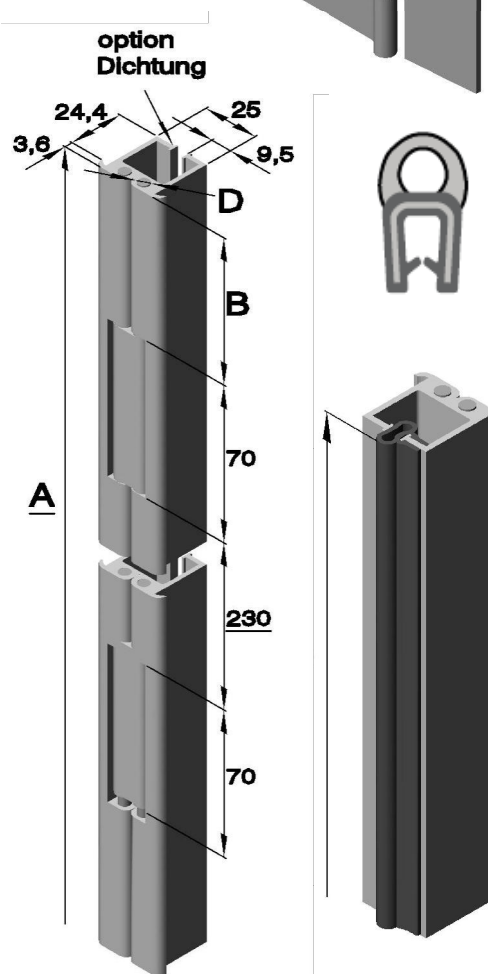
Opening angle 180° (must be ordered separately)

| Art no. | Material    |                 | Dimension in mm |     |            |
|---------|-------------|-----------------|-----------------|-----|------------|
|         | Rod         | Pin             | A               | B   | D<br>Pin Ø |
| 6850.70 | Alu 6060 T5 | Stainless steel | 2000            | 65  | 5          |
| 6851.70 | Alu 6060 T5 | Stainless steel | 2500            | 115 | 5          |
| 6852.70 | Alu 6060 T5 | Stainless steel | 3000            | 115 | 5          |

### Sealing

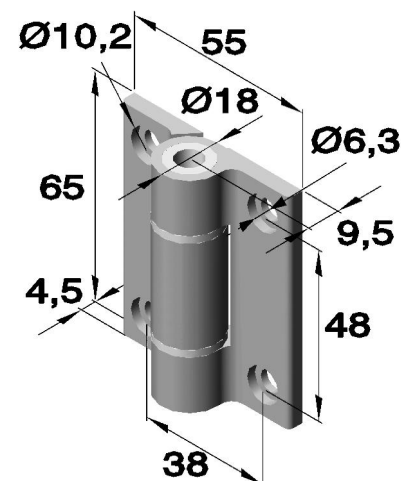
for hinges with double joint

| Art no. | Material     | Dimension in mm |
|---------|--------------|-----------------|
|         |              | A               |
| 6853.D  | Rubber black | 2000            |
| 6854.D  | Rubber black | 2500            |
| 6855.D  | Rubber black | 3000            |



## Aluminium hinges

### Art.Nr. 6540 (drilled and countersunk) Cantilevered



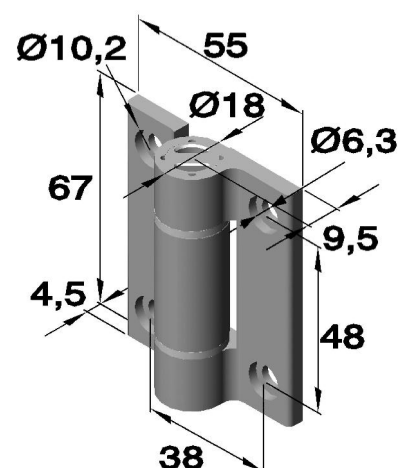
| Article no. |                  |                   |       |
|-------------|------------------|-------------------|-------|
| Series      | Execution        | Material          |       |
|             |                  | Aluminium 6060 T5 |       |
|             |                  | Silver            | Black |
| 6540        | .01 without plug | .70               | .77   |
| 6540        | .02 with plug    | .70               | .77   |

### Art no.6872/6873 with integrated spring

Also available as:

Cantilever hinge see chapter "Hinges"

Torque/ detent hinge see chapter "Torque/ detent hinges"



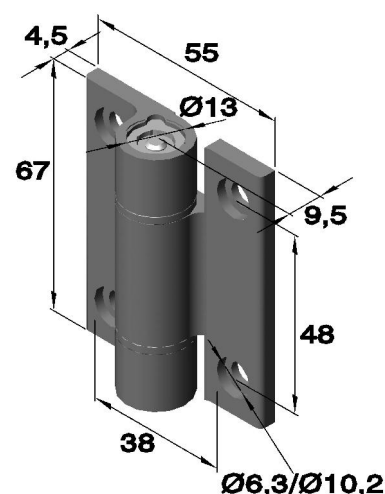
| Article no. |             |                   |       | Spring force in Nm |      |      |
|-------------|-------------|-------------------|-------|--------------------|------|------|
| Series      | Execution   | Material          |       | 0°                 | 90°  | 180° |
|             |             | Aluminium 6060 T5 |       |                    |      |      |
|             |             | Silver            | Black |                    |      |      |
| 6872        | .01 Opening | .70               | .77   | 0,23               | 0,45 | 0,7  |
| 6872        | .03 Closing | .70               | .77   | 0,23               | 0,45 | 0,7  |
| 6872        | .02 Opening | .70               | .77   | 0,12               | 0,24 | 0,35 |
| 6872        | .04 Closing | .70               | .77   | 0,12               | 0,24 | 0,35 |
| 6873        | .01 Opening | .70               | .77   | 0,9                | 1,1  | 1,3  |
| 6873        | .02 Closing | .70               | .77   | 0,9                | 1,1  | 1,3  |

### Art.no.:6874(perforated and countersunk) Detent hinge

Detent positions all 30° from 0° to 270°.

Also available with 3 different detent moments.

| Article no. |           |             | Detent<br>moment |
|-------------|-----------|-------------|------------------|
| Series      | Execution | Material    |                  |
|             |           | Black       |                  |
|             |           | Alu 6060 T5 |                  |
| 6874        | .01       | .77         | 1,8 Nm           |
| 6874        | .02       | .77         | 2,5 Nm           |
| 6874        | .03       | .77         | 3,2 Nm           |
| 6874        | .04       | .77         | 5.0 Nm           |





## Aluminium hinges

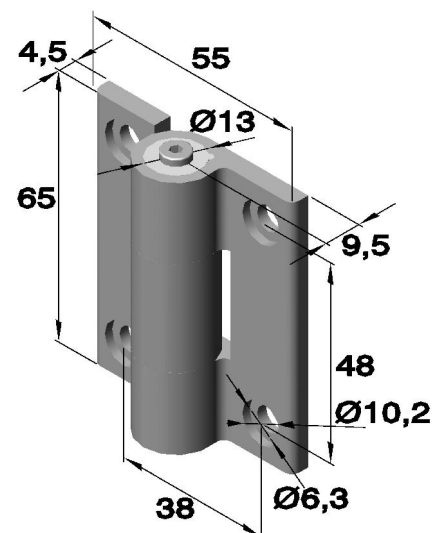
Art.no.: **6871** (perforated and countersunk)

Torque hinge

Holding torque: 0 - 5 Nm max.  
Adjusting screw: internal hex 4  
Temperature stability: -20 °C - + 80 °C

Max. tensile strength: 6000 N  
Max. shear strength: 5000 N

| Article no. |           |             |             |
|-------------|-----------|-------------|-------------|
| Series      | Execution | Material    |             |
|             |           | Colorless   | Black       |
|             |           | Alu 6060 T5 | Alu 6060 T5 |
| 6871        | .04       | .70         | .77         |



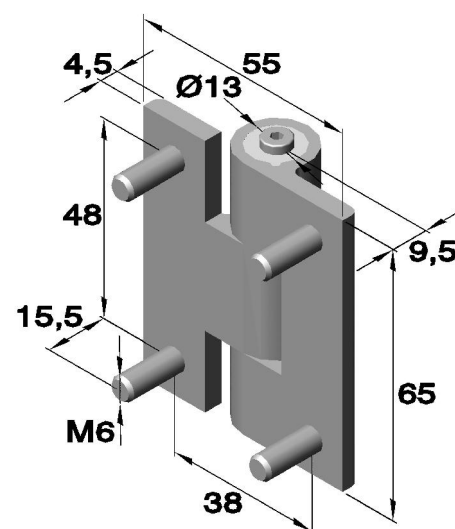
Art.no.: **6871** (perforated and countersunk)

Torque hinge

Holding torque: 0 - 5 Nm max.  
Adjusting screw: internal hex 4  
Temperature stability: -20 °C - + 80 °C

Max. tensile strength: 6000 N  
Max. shear strength: 5000 N

| Article no. |           |             |             |
|-------------|-----------|-------------|-------------|
| Series      | Execution | Material    |             |
|             |           | Raw         | Black       |
|             |           | Alu 6060 T5 | Alu 6060 T5 |
| 6871        | .05       | .70         | .77         |

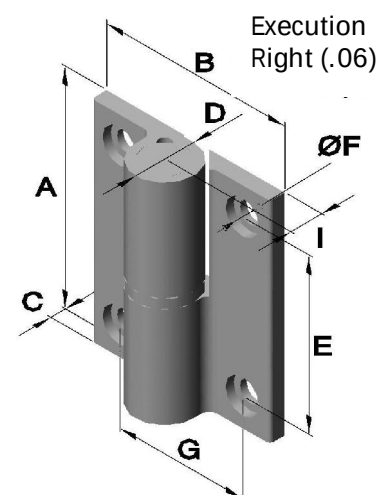


Art.no. **6088** (drilled and countersunk)  
with spring and intermediate ring made of nylon

The hinge moves itself automatically  
back to the initial position with an  
opening angle of up to 80°.

Above 80° the spring function is cancelled.

The left execution (.05) is a mirror image  
to the right execution (.06).

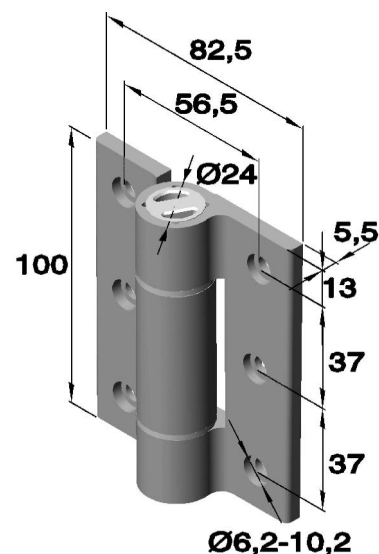


| Article no. |           |       |                   | Dimensions in mm |    |     |    |    |          |    |     |
|-------------|-----------|-------|-------------------|------------------|----|-----|----|----|----------|----|-----|
| Series      | Execution |       | Material          | A                | B  | C   | D  | E  | Ø F      | G  | I   |
|             | Left      | Right | Aluminium 6060 T5 |                  |    |     |    |    |          |    |     |
| 6088        | .05       | .06   | .77 (Silver)      | 65               | 55 | 4,5 | 18 | 48 | 6,5-10,4 | 38 | 9,5 |
| 6088        | .07       | .08   | .77 (Black)       | 65               | 55 | 4.5 | 18 | 48 | 6.5-10.4 | 38 | 9.5 |

## Aluminium hinges

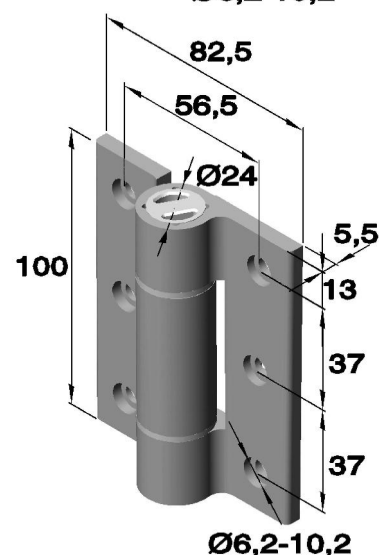
### Art.no. 6876 (drilled and countersunk) Cantilevered hinge

| Article no. |           |                   |       |
|-------------|-----------|-------------------|-------|
| Series      | Execution | Material          |       |
|             |           | Aluminium 6060 T5 |       |
|             |           | Silver            | Black |
| 6876        | .08       | .71               | -     |
| 6876        | .09       | -                 | .77   |



### Art.no. 6876 (drilled and countersunk) with integrated spring

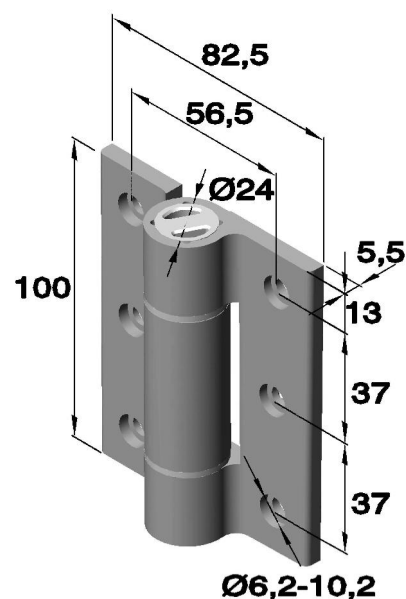
| Article no. |           |                   |       | Spring force in Nm |     |      |
|-------------|-----------|-------------------|-------|--------------------|-----|------|
| Series      | Execution | Material          |       | 0°                 | 90° | 180° |
|             |           | Aluminium 6060 T5 |       |                    |     |      |
|             |           | Silver            | Black |                    |     |      |
| 6876        | .01       | .70.              | .77   | 2,4                | 3,1 | 3,8  |
| 6876        | .02       | .70               | .77   | 2,4                | 3,1 | 3,8  |



### Art.no. 6876 (drilled and countersunk) Soft-closing torque hinge

Opens and closes steamed.  
Function ensures to 115°  
Torque per couple: 2,5 to 4,5 Nm

| Article no. |           |                    |  |
|-------------|-----------|--------------------|--|
| Series      | Execution | Material           |  |
|             |           | Anodized colorless |  |
|             |           | Aluminium 6060 T5  |  |
| 6876        | .06       | .71                |  |



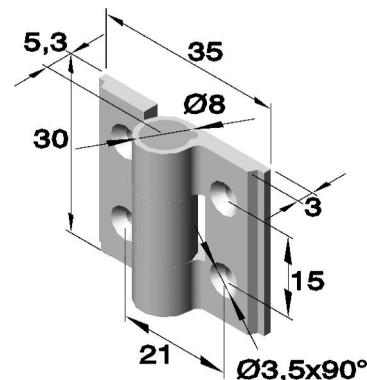
## Aluminium hinges

Art no.: **6960** (perforated and countersunk)

Spring hinge

with integrated spring

| Article no. |           |             |             | Spring force in Nm |      |      |
|-------------|-----------|-------------|-------------|--------------------|------|------|
| Series      | Execution | Material    |             | 0°                 | 90°  | 180° |
|             |           | Colorless   | Black       |                    |      |      |
|             |           | Alu 6060 T5 | Alu 6060 T5 |                    |      |      |
| 6960        | .01       | .71         | .77         | 0,2                | 0,12 | 0,07 |



Art no.: **6871** (perforated and countersunk)

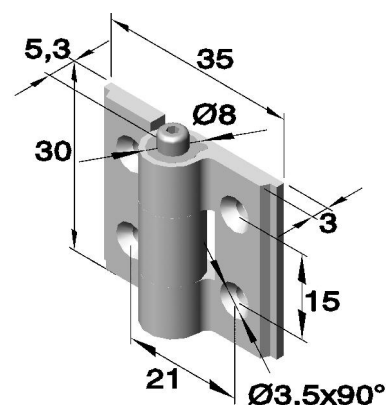
Adjusting screw: internal hex 2,5

Temperature stability: -20 °C to + 80 °C

Max. tensile strength: 2240 N

Max. shear strength: 1050 N

| Article no. |           |             |             |             |
|-------------|-----------|-------------|-------------|-------------|
| Series      | Execution | Material    |             |             |
|             |           | Raw         | Colorless   | Black       |
|             |           | Alu 6060 T5 | Alu 6060 T5 | Alu 6060 T5 |
| 6871        | .01       | .70         | -           | .77         |
| 6871        | .02       | -           | .70         | -           |

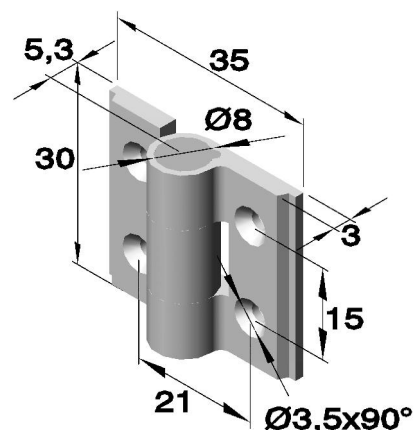


Art.no.: **6871** (perforated and countersunk)

Detent positions all 30° from 0° to 270°

Detent moment is not adjustable.

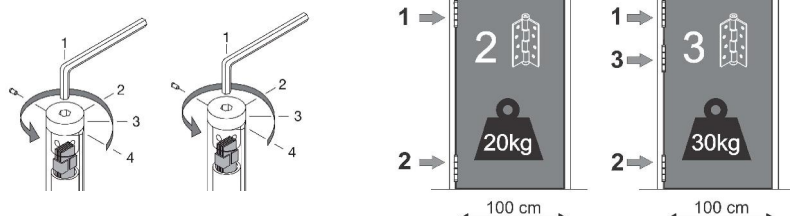
| Article no. |           |                    |                |
|-------------|-----------|--------------------|----------------|
| Series      | Execution | Material           |                |
|             |           | Anodized colorless | Anodized black |
|             |           | Alu 6060 T5        | Alu 6060 T5    |
| 6871        | .06       | .71                | .77            |



## Aluminium hinges

Art no. 158. 5314. \_\_. \_\_ (spring force adjustable)

with integrated spring

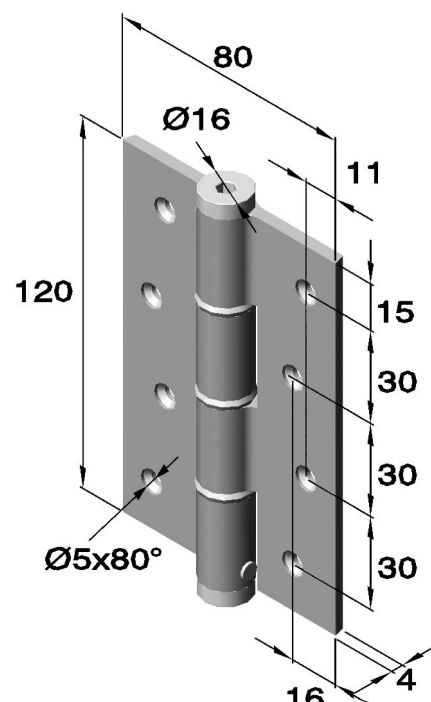


| Article no. |           |          | Load in kg   |              |
|-------------|-----------|----------|--------------|--------------|
| Series      | Material  |          | for 2 hinges | for 3 hinges |
|             | Aluminium | Anodized |              |              |
| 158.5314.01 | .71       | Silver   | 20           | 30           |
| 158.5314.02 | .72       | Gold     | 20           | 30           |
| 158.5314.03 | .73       | Bronze   | 20           | 30           |
| 158.5314.06 | .76       | White    | 20           | 30           |
| 158.5314.09 | .77       | Black    | 20           | 30           |

This product will be delivered only in pairs.

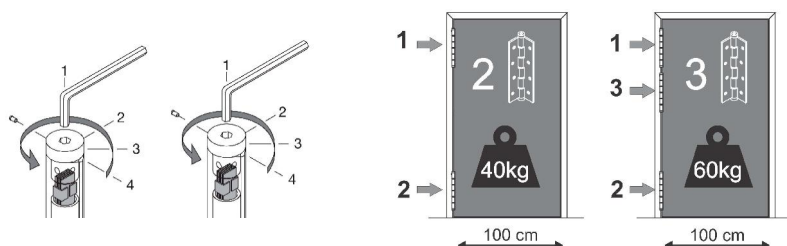
Close doors automatically, integrated mechanic is very tough and adjustable.

Max. aperture angle 180°.



Art no. 158. 5814. \_\_. \_\_ (spring force adjustable)

with integrated spring

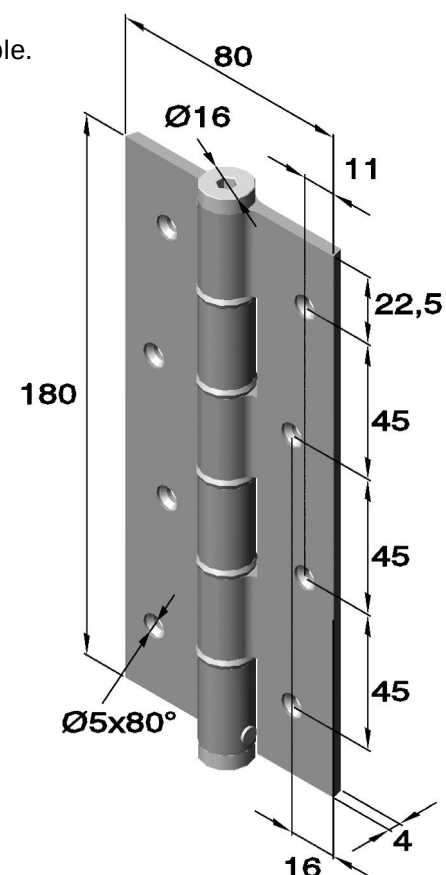


| Article no. |           |          | Load in kg  |             |
|-------------|-----------|----------|-------------|-------------|
| Series      | Material  |          | for 2 hinge | for 3 hinge |
|             | Aluminium | Anodized |             |             |
| 158.5814.01 | .71       | Silver   | 40          | 60          |
| 158.5814.02 | .72       | Gold     | 40          | 60          |
| 158.5814.03 | .73       | Bronze   | 40          | 60          |
| 158.5814.06 | .76       | White    | 40          | 60          |
| 158.5814.09 | .77       | Black    | 40          | 60          |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.

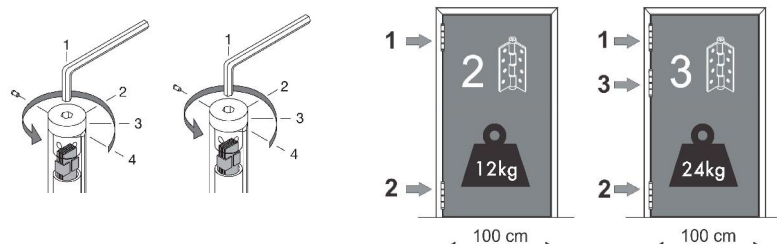
Max. aperture angle 180°.



## Aluminium hinges

Art no. 158. 5414. \_\_. \_\_ (spring force adjustable)

Double joint hinge/swing door hinge  
with integrated spring

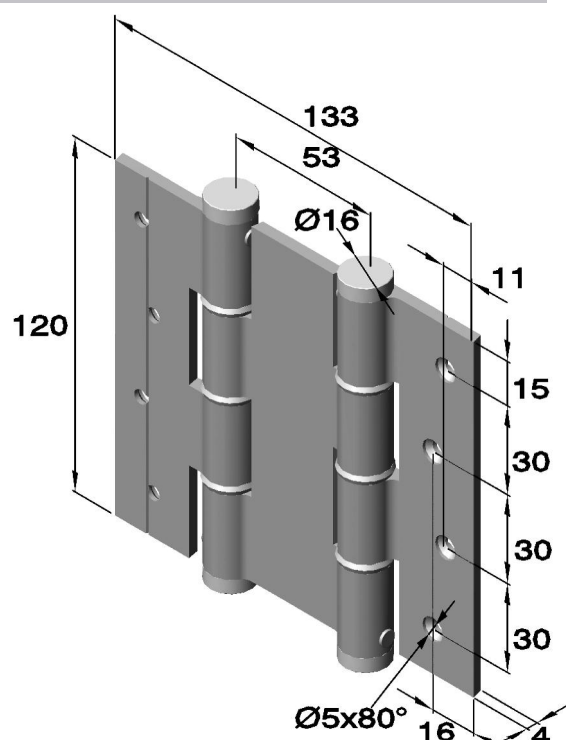


| Article no. |           |          | Load in kg  |             |
|-------------|-----------|----------|-------------|-------------|
| Series      | Material  |          | for 2 hinge | for 3 hinge |
|             | Aluminium | Anodized |             |             |
| 158.5414.01 | .71       | Silver   | 12          | 24          |
| 158.5414.02 | .72       | Gold     | 12          | 24          |
| 158.5414.03 | .73       | Bronze   | 12          | 24          |
| 158.5414.06 | .76       | White    | 12          | 24          |
| 158.5414.09 | .77       | Black    | 12          | 24          |

This product will be delivered only in pairs.

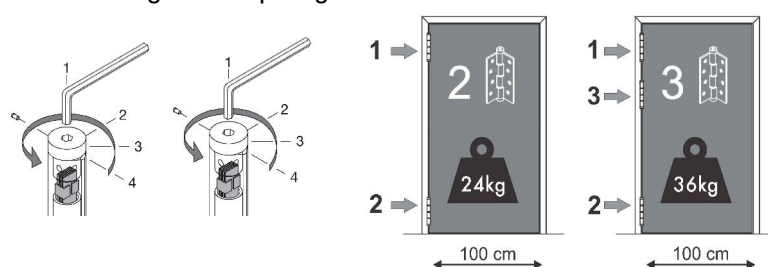
Close doors automatically, integrated mechanic is very tough and adjustable.

Max. aperture angle 180°.



Art no. 158. 5914. \_\_. \_\_ (spring force adjustable)

double joint hinge/swing door hinge  
with integrated spring

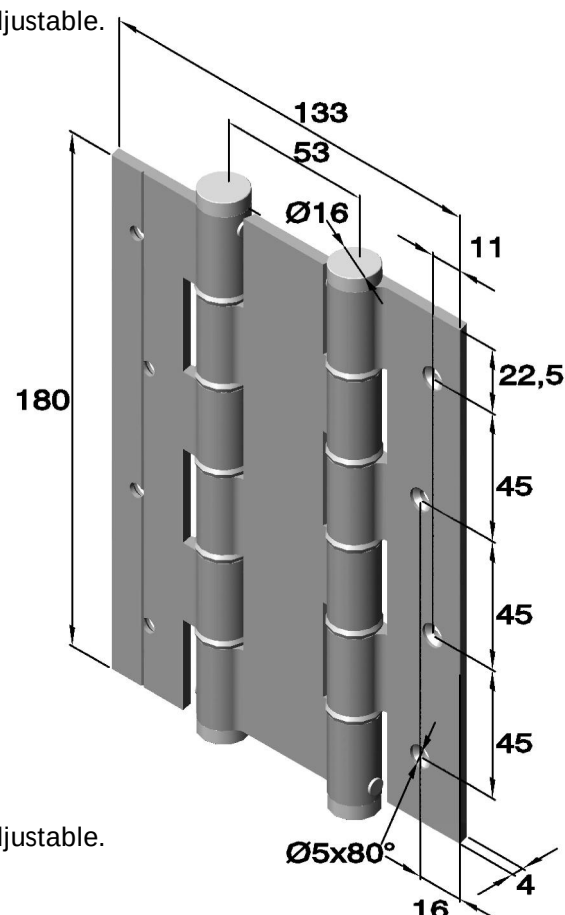


| Article no. |           |          | Load in kg  |             |
|-------------|-----------|----------|-------------|-------------|
| Series      | Material  |          | for 2 hinge | for 3 hinge |
|             | Aluminium | Anodized |             |             |
| 158.5914.01 | .71       | Silver   | 24          | 36          |
| 158.5914.02 | .72       | Gold     | 24          | 36          |
| 158.5914.03 | .73       | Bronze   | 24          | 36          |
| 158.5914.06 | .76       | White    | 24          | 36          |
| 158.5914.09 | .77       | Black    | 24          | 36          |

This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough and adjustable.

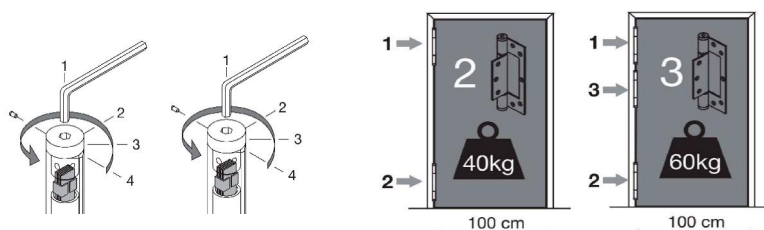
Max. aperture angle 180°.



## Aluminium hinges

Art no. 158. 6314. \_\_. \_\_ (spring force adjustable)

with integrated spring

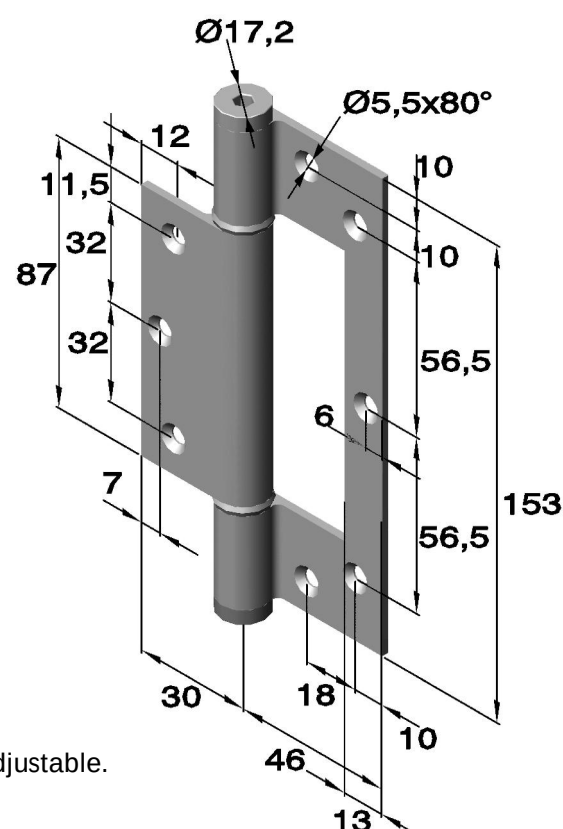


| Article no. |           |          | Load in kg  |             |
|-------------|-----------|----------|-------------|-------------|
| Series      | Material  |          | for 2 hinge | for 3 hinge |
|             | Aluminium | Anodized |             |             |
| 158.6314.01 | .71       | Silver   | 40          | 60          |
| 158.6314.02 | .72       | Gold     | 40          | 60          |
| 158.6314.03 | .73       | Bronze   | 40          | 60          |
| 158.6314.06 | .76       | White    | 40          | 60          |
| 158.6314.09 | .77       | Black    | 40          | 60          |

This product will be delivered.

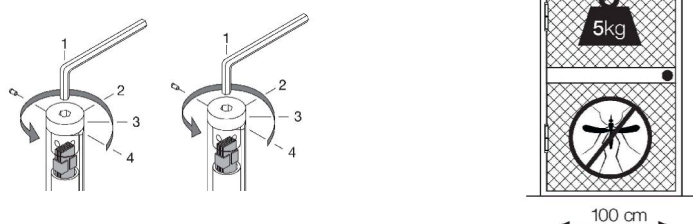
Close doors automatically, integrated mechanic is very tough and adjustable.

Max. aperture angle 180°.

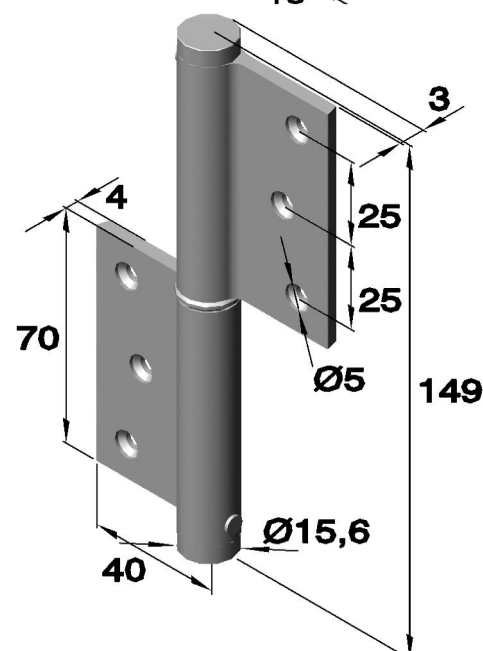


Art no. 158. 6717. \_\_. \_\_ (spring force adjustable)

with integrated spring



| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Material  |          |
|             | Aluminium | Anodized |
| 158.6717.01 | .71       | Silver   |
| 158.6717.02 | .72       | Gold     |
| 158.6717.03 | .73       | Bronze   |
| 158.6717.06 | .76       | White    |
| 158.6717.09 | .77       | Black    |



This product will be delivered only in pairs.

Close doors automatically, integrated mechanic is very tough adjustable.

Max. aperture angle 180°.

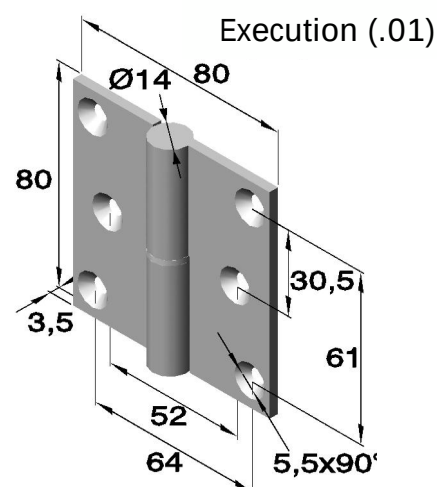


## Aluminium hinges

**Art.no: 6085** (perforated and countersunk)  
with fixed, Zinc plated steel bolt and nylon coating

Pin diameter 8mm.

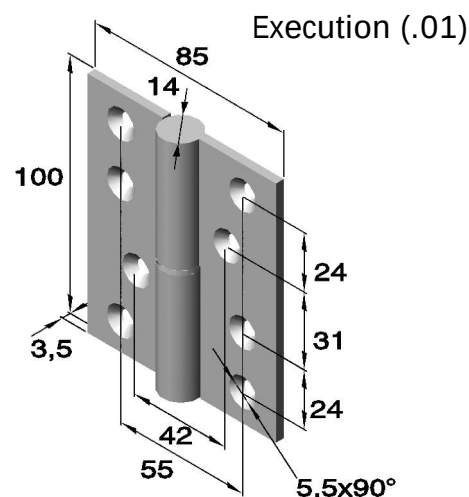
| Article no. |           |       |           |
|-------------|-----------|-------|-----------|
| Series      | Execution |       | Material  |
|             | Left      | Right | Aluminium |
| 6085        | .01       | .02   | Anodized  |
|             |           |       | .70       |



**Art.no: 6086** (perforated and countersunk)  
with fixed, Zinc plated steel bolt and nylon coating

Pin diameter 8mm.

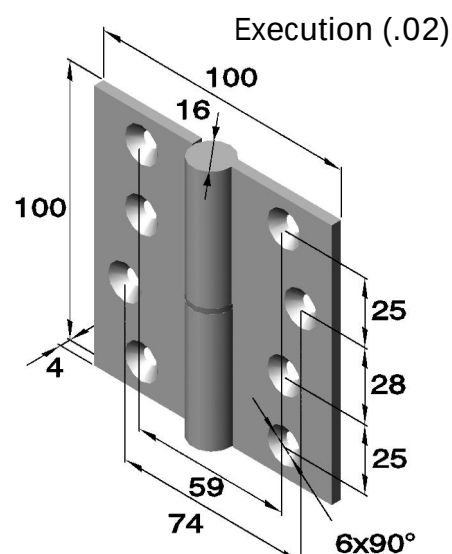
| Article no. |           |       |           |
|-------------|-----------|-------|-----------|
| Series      | Execution |       | Material  |
|             | Left      | Right | Aluminium |
| 6086        | .01       | .02   | Anodized  |
|             |           |       | .70       |



**Art.no: 6087** (perforated and countersunk)  
with fixed, Zinc plated steel bolt and nylon coating

Pin diameter 9mm.

| Article no. |           |       |           |
|-------------|-----------|-------|-----------|
| Series      | Execution |       | Material  |
|             | Left      | Right | Aluminium |
| 6087        | .01       | .02   | Anodized  |
|             |           |       | .70       |



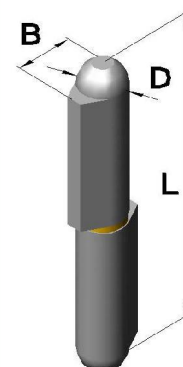
# Aluminium hinges

Weld on hinge-rolls „ABR “ with round ends

FVS with fixed stainless-steel pin and brass intermediate ring.

AVS with extractable stainless-steel pin and brass intermediate ring.

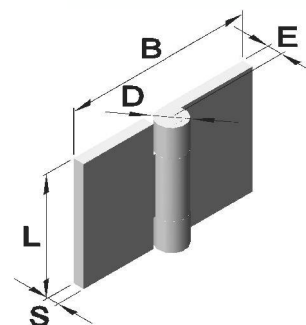
| Article no. |     |           |     |                       | Dimensions in mm |      |    |                            |
|-------------|-----|-----------|-----|-----------------------|------------------|------|----|----------------------------|
| Series      | L   | Execution |     | Material<br>Aluminium | D                | B    | d  | Load capacity<br>ca. in kg |
| ABR         | 60  | FVS       | AVS | .70                   | 10               | 12   | 6  | 50                         |
| ABR         | 80  | FVS       | AVS | .70                   | 13               | 16   | 8  | 70                         |
| ABR         | 100 | FVS       | -   | .70                   | 16               | 20   | 10 | 100                        |
| ABR         | 120 | FVS       | AVS | .70                   | 16               | 20   | 10 | 120                        |
| ABR         | 150 | FVS       | -   | .70                   | 20               | 25,5 | 13 | 150                        |
| ABR         | 180 | FVS       | -   | .70                   | 20               | 25,5 | 13 | 170                        |



## Art.no.:6022

with riveted stainless-steel pin; drilling on request

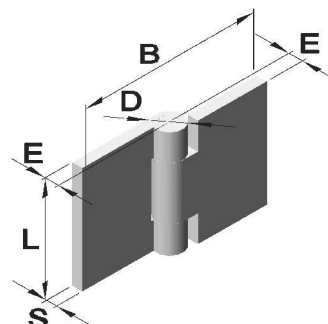
| Article no. |           |           | Dimension in mm |    |     |   |   |    |   |    |   |          |
|-------------|-----------|-----------|-----------------|----|-----|---|---|----|---|----|---|----------|
| Series      | Execution | Material  | L               | B  | C Ø | D | E | F  | f | G  | S | Pin<br>Ø |
|             |           | Raw       |                 |    |     |   |   |    |   |    |   |          |
|             |           | Aluminium |                 |    |     |   |   |    |   |    |   |          |
| 6022        | .01       | .70       | 32              | 50 | -   | 8 | 4 | -  | - | -  | 3 | 5,2      |
| 6022        | .02       | .70       | 50              | 50 | -   | 8 | 4 | -  | - | -  | 3 | 5,2      |
| 6022        | .03       | .70       | 32              | 50 | 3.2 | 8 | 4 | 30 | - | 20 | 3 | 5.2      |



## Art.no.:6023

with riveted stainless-steel pin; drilling on request

| Article no. |           |           | Dimension in mm |    |   |   |   |          |
|-------------|-----------|-----------|-----------------|----|---|---|---|----------|
| Series      | Execution | Material  | L               | B  | D | E | S | Pin<br>Ø |
|             |           | Raw       |                 |    |   |   |   |          |
|             |           | Aluminium |                 |    |   |   |   |          |
| 6023        | .01       | .70       | 32              | 50 | 8 | 4 | 3 | 5,2      |
| 6023        | .02       | .70       | 50              | 50 | 8 | 4 | 3 | 5,2      |





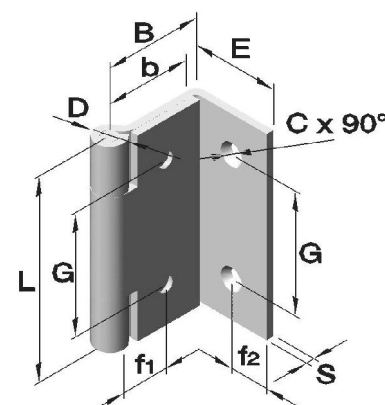
## Cranked hinges



## Cranked hinges

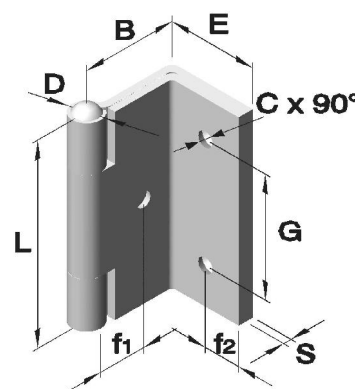
**Art.no.:6030** (drilled and countersunk)  
with strength stainless steel pin

| Article no. |           |                        | Dimensions in mm |      |      |     |   |      |    |    |    |     |       |
|-------------|-----------|------------------------|------------------|------|------|-----|---|------|----|----|----|-----|-------|
| Series      | Execution | Material               | L                | B    | b    | C Ø | D | E    | f1 | f2 | G  | S   | Pin Ø |
|             |           | Chrome plated<br>Brass |                  |      |      |     |   |      |    |    |    |     |       |
| 6030        | .01       | .23                    | 38               | 18,5 | 16,5 | 4   | 6 | 16,5 | 9  | 7  | 23 | 1,5 | 3     |



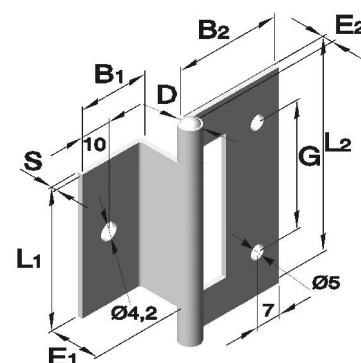
**Art.no.:6031** (drilled and countersunk)  
with strength stainless steel pin

| Article no. |           |               | Dimensions in mm |      |     |   |      |    |    |    |     |       |
|-------------|-----------|---------------|------------------|------|-----|---|------|----|----|----|-----|-------|
| Series      | Execution | Material      | L                | B    | C Ø | D | E    | f1 | f2 | G  | S   | Pin Ø |
|             |           | Chrome plated |                  |      |     |   |      |    |    |    |     |       |
|             |           | Brass         |                  |      |     |   |      |    |    |    |     |       |
| 6031        | .01       | .23           | 38               | 18,5 | 4   | 6 | 16,5 | 9  | 7  | 23 | 1,5 | 3     |



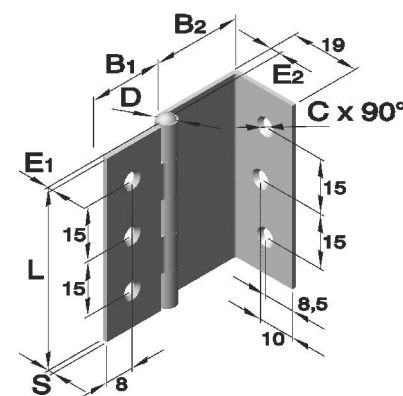
**Art.no.:6031** (drilled)  
with strength stainless steel pin

| Article no. |           |                 | Dimensions in mm |    |      |    |   |      |    |    |     |       |
|-------------|-----------|-----------------|------------------|----|------|----|---|------|----|----|-----|-------|
| Series      | Execution | Material        | L1               | L2 | B1   | B2 | D | E1   | E2 | G  | S   | Pin Ø |
|             |           | Shiny           |                  |    |      |    |   |      |    |    |     |       |
|             |           | Stainless steel |                  |    |      |    |   |      |    |    |     |       |
| 6031        | .02       | .35             | 40               | 60 | 21.5 | 30 | 6 | 14.5 | 3  | 36 | 1.5 | 3     |



**Art.no.:6032** (drilled and countersunk)  
with strength stainless steel pin

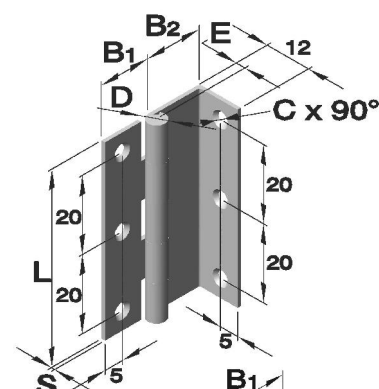
| Article no. |           |                 | Dimensions in mm |      |      |     |     |     |     |     |       |
|-------------|-----------|-----------------|------------------|------|------|-----|-----|-----|-----|-----|-------|
| Series      | Execution | Material        | L                | B1   | B2   | C Ø | D   | E1  | E2  | S   | Pin Ø |
|             |           | Polished        |                  |      |      |     |     |     |     |     |       |
|             |           | Stainless steel |                  |      |      |     |     |     |     |     |       |
| 6032        | 01        | 30              | 50               | 20.3 | 24.5 | 4.8 | 5.4 | 1.5 | 2.7 | 1.2 | 3     |



## Cranked hinges

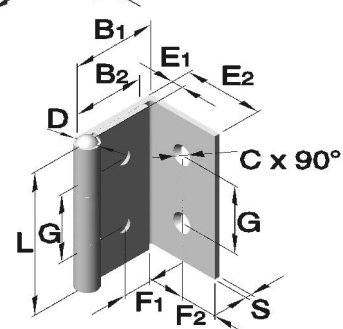
**Art.no.:6033** (drilled and countersunk)  
with strength stainless steel pin

| Article no. |           |                 | Dimensions in mm |      |    |     |   |     |   |       |  |  |
|-------------|-----------|-----------------|------------------|------|----|-----|---|-----|---|-------|--|--|
| Series      | Execution | Material        | L                | B    | B2 | C Ø | D | E   | S | Pin Ø |  |  |
|             |           | Shiny           |                  |      |    |     |   |     |   |       |  |  |
|             |           | Stainless steel |                  |      |    |     |   |     |   |       |  |  |
| 6033        | .01       | .30             | 50               | 13,5 | 15 | 4   | 5 | 2.5 | 1 | 3     |  |  |



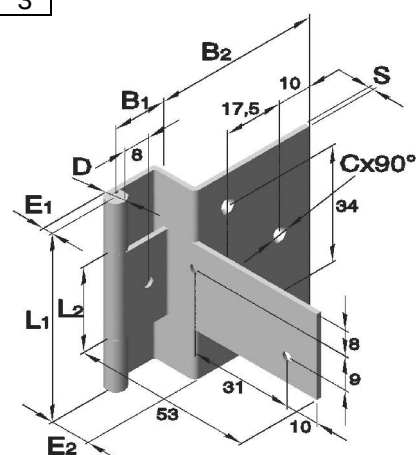
**Art.no.:6034** (drilled and countersunk)  
with pull-out stainless-steel pin

| Article no. |           |                 |           | Dimensions in mm |      |    |     |   |     |    |     |    |    |     |       |  |
|-------------|-----------|-----------------|-----------|------------------|------|----|-----|---|-----|----|-----|----|----|-----|-------|--|
| Series      | Execution | Material        |           | L                | B1   | B2 | C Ø | D | E1  | E2 | F1  | F2 | G  | S   | Pin Ø |  |
|             |           | Chrome plated   | Burnished |                  |      |    |     |   |     |    |     |    |    |     |       |  |
|             |           | Stainless steel |           |                  |      |    |     |   |     |    |     |    |    |     |       |  |
| 6034        | .01       | .03             | .07       | 38               | 22,5 | 19 | 4,7 | 6 | 4   | 21 | 7,5 | 10 | 18 | 1,5 | 3     |  |
| 6034        | .02       | .03             | -         | 38               | 23   | 19 | 4   | 6 | 3,5 | 17 | 7   | 8  | 26 | 1,5 | 3     |  |
| 6034        | .03       | .03             | -         | 38               | 24.5 | 19 | 4.7 | 6 | 4   | 19 | 7.5 | 10 | 18 | 1.5 | 3     |  |



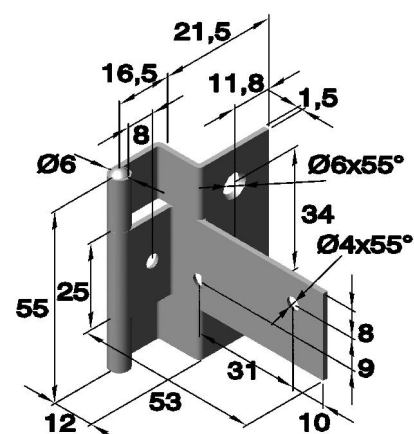
**Art.no.:6035** (drilled and countersunk)  
with pull out pin

| Article no. |           |               | Dimensions in mm |    |      |      |      |   |    |    |     |       |  |
|-------------|-----------|---------------|------------------|----|------|------|------|---|----|----|-----|-------|--|
| Series      | Execution | Material      | L1               | L2 | B1   | B2   | C Ø  | D | E1 | E2 | S   | Pin Ø |  |
|             |           | Chrome plated |                  |    |      |      |      |   |    |    |     |       |  |
|             |           | Steel         |                  |    |      |      |      |   |    |    |     |       |  |
| 6035        | .02       | .03           | 55               | 25 | 16,5 | 37,5 | 4,75 | 6 | 3  | 12 | 1,5 | 3     |  |



**Art.no.:6037** (drilled and countersunk)  
with pull out pin

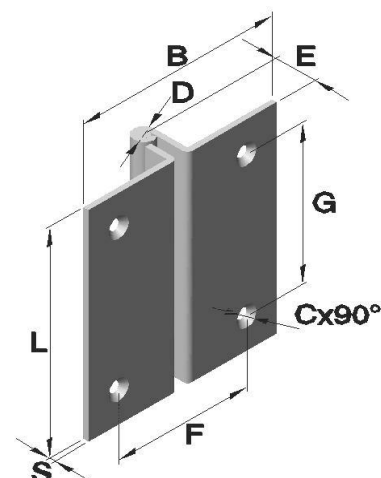
| Article no. |           |  |  | Material |  |        |  |
|-------------|-----------|--|--|----------|--|--------|--|
| Series      | Execution |  |  | Brassed  |  | Nickel |  |
|             |           |  |  | Steel    |  | Steel  |  |
|             |           |  |  | .02      |  | 03     |  |
| 6037        | .01       |  |  |          |  |        |  |



## Cranked hinges

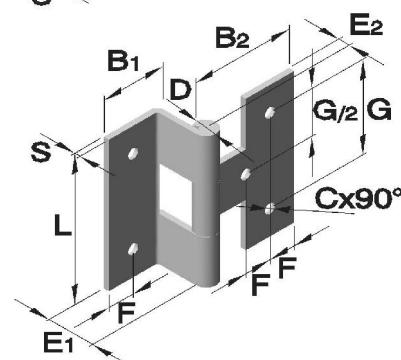
**Art.no.:6037** (drilled and countersunk)  
with pull out pin;

| Article no. |           |             | Dimensions in mm |    |     |   |    |    |    |     |       |
|-------------|-----------|-------------|------------------|----|-----|---|----|----|----|-----|-------|
| Series      | Execution | Material    | L                | B  | C Ø | D | E  | F  | G  | S   | Pin Ø |
|             |           | Zinc plated |                  |    |     |   |    |    |    |     |       |
|             |           | Steel       |                  |    |     |   |    |    |    |     |       |
| 6037        | .03       | .04         | 60               | 56 | 5   | 6 | 10 | 38 | 42 | 1.5 | 3     |



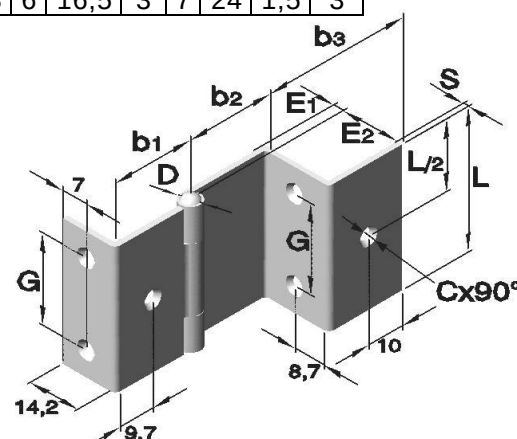
**Art.no.:6038** (drilled and countersunk)  
with strength stainless steel pin;

| Article no. |           |          |                  |           |                 | Dimensions in mm |    |    |     |   |      |    |   |    |     |          |
|-------------|-----------|----------|------------------|-----------|-----------------|------------------|----|----|-----|---|------|----|---|----|-----|----------|
| Series      | Execution | Material |                  |           |                 | L                | B1 | B2 | C Ø | D | E1   | E2 | F | G  | S   | Pin<br>Ø |
|             |           | Nickel   | Chrome<br>plated | Burnished | Raw             |                  |    |    |     |   |      |    |   |    |     |          |
|             |           | Steel    | Steel            | Steel     | Stainless steel |                  |    |    |     |   |      |    |   |    |     |          |
| 6038        | .01       | .01      | .03              | .07       | -               | 38               | 17 | 27 | 2,8 | 6 | 12,5 | 3  | 7 | 24 | 1,5 | 3        |
| 6038        | .02       | -        | .03              | -         | -               | 38               | 17 | 27 | 2,8 | 6 | 8,5  | 3  | 7 | 24 | 1,5 | 3        |
| 6038        | .03       | -        | -                | -         | .30             | 38               | 17 | 31 | 2,8 | 6 | 16,5 | 3  | 7 | 24 | 1,5 | 3        |



**Art.no.:6041** (drilled and countersunk)  
with pull out pin

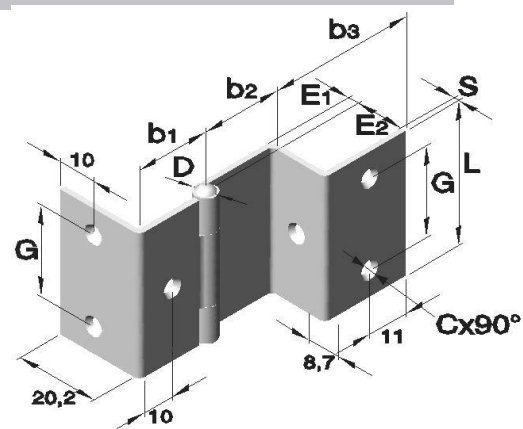
| Article no. |           |               |           | Dimensions in mm |      |    |    |     |   |    |    |    |     |       |
|-------------|-----------|---------------|-----------|------------------|------|----|----|-----|---|----|----|----|-----|-------|
| Series      | Execution | Material      |           | L                | b1   | b2 | b3 | C Ø | D | E1 | E2 | G  | S   | Pin Ø |
|             |           | Chrome plated | Burnished |                  |      |    |    |     |   |    |    |    |     |       |
|             |           | Steel         | Steel     |                  |      |    |    |     |   |    |    |    |     |       |
| 6041        | .01       | .03           | .07       | 38               | 22.5 | 24 | 22 | 5.5 | 6 | 3  | 16 | 24 | 1.5 | 3     |





## Cranked hinges

Art.no.: 6042 (drilled and countersunk)  
with pull out pin



| Article no. |           |                        | Dimensions in mm |    |      |      |     |   |    |    |    |     |       |
|-------------|-----------|------------------------|------------------|----|------|------|-----|---|----|----|----|-----|-------|
| Series      | Execution | Material               | L                | b1 | b2   | b3   | C Ø | D | E1 | E2 | G  | S   | Pin Ø |
|             |           | Chrome plated<br>Steel |                  |    |      |      |     |   |    |    |    |     |       |
| 6042        | .01       | .03                    | 38               | 20 | 21,5 | 24,5 | 5,5 | 6 | 3  | 13 | 24 | 1,5 | 3     |

# Cranked hinges

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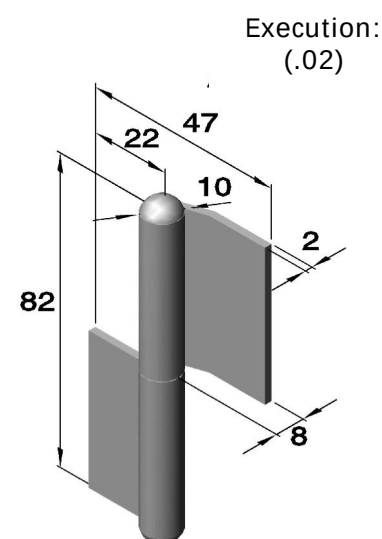
## Weld on hinges



## Weld on hinges

### Art. no.: 6071

with fixed steel bolt

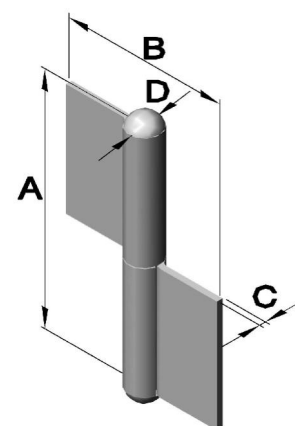


| Article no. |           |      |           |
|-------------|-----------|------|-----------|
| Series      | Execution |      | Material  |
|             | Right     | Left | Raw Steel |
| 6071        | .01       | .02  | .00       |

### Art. no.: 6072

with fixed steel bolt

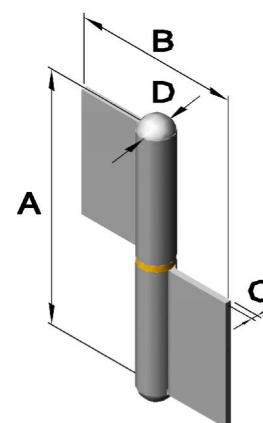
| Article no. |           |          |                 | Dimensions in mm |    |     |     |       |
|-------------|-----------|----------|-----------------|------------------|----|-----|-----|-------|
| Series      | Execution | Material |                 | A                | B  | D   | C   | Pin Ø |
|             |           | Raw      | Raw             |                  |    |     |     |       |
|             |           | Steel    | Stainless steel |                  |    |     |     |       |
| 6072        | .01       | .00      | .30             | 60               | 40 | 8,3 | 1,5 | 5,3   |
| 6072        | .02       | .00      | .30             | 80               | 50 | 10  | 2   | 6     |
| 6072        | .05       | .00      | -               | 80               | 40 | 8,3 | 1,5 | 5,3   |



### Art. no.: 6072

with fixed steel bolt and brass intermediate ring

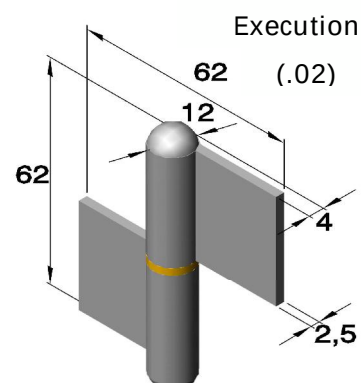
| Article no. |           |          |                 | Dimensions in mm |    |     |     |       |
|-------------|-----------|----------|-----------------|------------------|----|-----|-----|-------|
| Series      | Execution | Material |                 | A                | B  | C   | D   | Pin Ø |
|             |           | Raw      | Raw             |                  |    |     |     |       |
|             |           | Steel    | Stainless steel |                  |    |     |     |       |
| 6072        | .03       | .00      | .30             | 61,5             | 40 | 1,5 | 8,3 | 5,3   |
| 6072        | .04       | .00      | .30             | 81,5             | 50 | 2   | 10  | 6     |



# Weld on hinges

## Art. no.: 6073

with extractable steel pin and brass intermediate ring

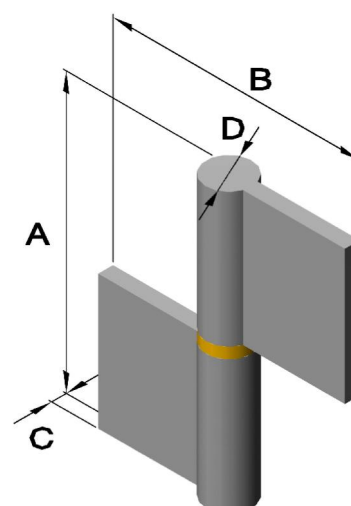


| Article no. |           |       |              |
|-------------|-----------|-------|--------------|
| Series      | Execution |       | Material     |
|             | Left      | Right | Raw<br>Steel |
| 6073        | .01       | .02   | .00          |

## Art.no: 6098

with fixed steel pin and brass intermediate ring

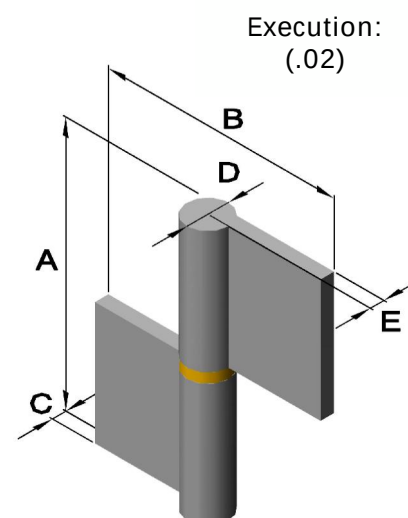
| Article no. |           |              | Dimensions in mm |     |     |      |          |
|-------------|-----------|--------------|------------------|-----|-----|------|----------|
| Series      | Execution | Material     | A                | B   | C   | D    | Pin<br>Ø |
|             |           | Raw<br>Steel |                  |     |     |      |          |
| 6098        | .01       | .00          | 63               | 80  | 4,2 | 15,5 | 8        |
| 6098        | .02       | .00          | 83,5             | 80  | 5,1 | 16   | 8        |
| 6098        | .03       | .00          | 104              | 92  | 5,5 | 17   | 9        |
| 6098        | .04       | .00          | 124              | 108 | 6,5 | 19   | 10       |
| 6098        | .05       | .00          | 144              | 108 | 6,5 | 19   | 10       |



## Art.no: 6099

with fixed steel pin and brass intermediate ring

| Article no. |           |       |       | Dimensions in mm |    |    |     |     |          |
|-------------|-----------|-------|-------|------------------|----|----|-----|-----|----------|
| Series      | Execution |       | Raw   | A                | B  | D  | E   | S   | Pin<br>Ø |
|             | Left      | Right | Steel |                  |    |    |     |     |          |
| 6099        | .02       | .07   | .00   | 83,5             | 63 | 16 | 5,1 | 5,1 | 8        |
| 6099        | .03       | .08   | .00   | 104              | 92 | 17 | 5,5 | 5,5 | 9        |

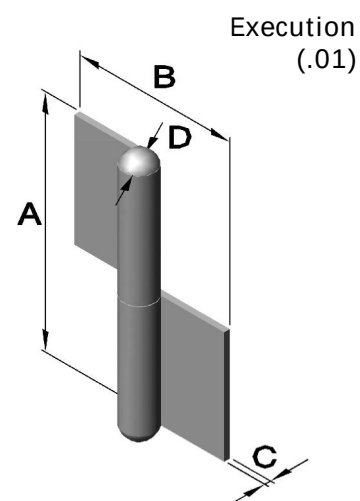


## Weld on hinges

### Art.no: 6120

with fixed steel pin

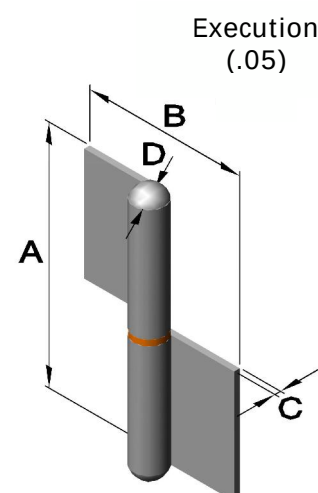
| Article no. |           |       |           | Dimensions in mm |    |     |     |     |       |
|-------------|-----------|-------|-----------|------------------|----|-----|-----|-----|-------|
| Series      | Execution |       | Material  | L                | B  | D   | E   | S   | Pin Ø |
|             | Left      | Right | Raw Steel |                  |    |     |     |     |       |
| 6120        | .01       | .02   | .00       | 60               | 40 | 8,4 | 4,2 | 1,5 | 5,3   |
| 6120        | .03       | .04   | .00       | 80               | 48 | 10  | 5   | 2   | 6     |



### Art.no: 6120

with fixed steel pin and brass intermediate ring

| Article no. |           |       |           | Dimensions in mm |    |     |     |       |
|-------------|-----------|-------|-----------|------------------|----|-----|-----|-------|
| Series      | Execution |       | Material  | A                | B  | C   | D   | Pin Ø |
|             | Left      | Right | Raw Steel |                  |    |     |     |       |
| 6120        | .05       | .06   | .00       | 61,5             | 40 | 1,5 | 8,4 | 5,3   |
| 6120        | .07       | .08   | .00       | 81,5             | 48 | 2   | 10  | 6     |

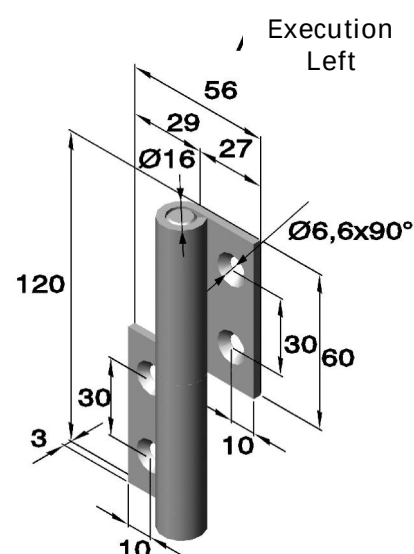


### Art.no: F2879\_(drilled and countersunk)

with welded stainless steel pin

Trade welded.

| Article no.   |               |                        | Pin<br>Ø |
|---------------|---------------|------------------------|----------|
| Execution     |               | Material               |          |
| Left          | Right         | Raw                    |          |
|               |               | Stainless steel 1.4571 |          |
| F28795/F28797 | F28796/F28797 | .30                    | 10       |

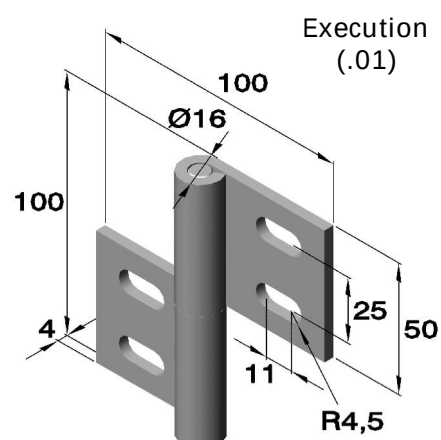




## Weld on hinges

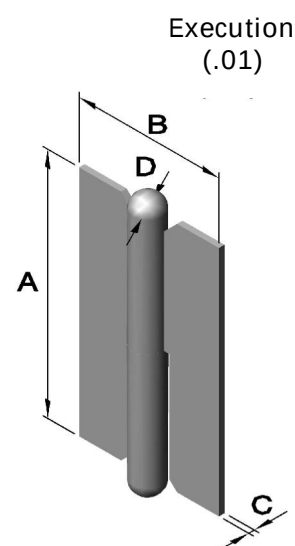
**Art.no: 10010048** (drilled)  
with stainless steel pin

| Article no. |           |       |                 | Pin<br>Ø |
|-------------|-----------|-------|-----------------|----------|
| Series      | Execution |       | Material        |          |
|             | Left      | Right | Raw             |          |
|             |           |       | Stainless steel |          |
| 10010048    | .01       | .02   | .30             | 8        |



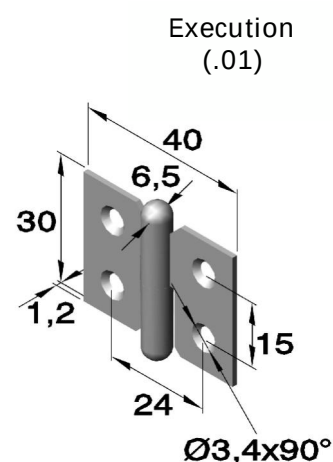
**Art.no: 6076**  
with fixed steel pin

| Article no. |           |       | Dimensions in mm |    |    |     |     |          |
|-------------|-----------|-------|------------------|----|----|-----|-----|----------|
| Series      | Execution |       | Material         | A  | B  | C   | D   | Pin<br>Ø |
|             | Left      | Right | Raw              |    |    |     |     |          |
|             |           |       | Steel            |    |    |     |     |          |
| 6076        | .02       | .01   | .00              | 50 | 30 | 1,2 | 6,4 | 4        |
| 6076        | .04       | .03   | .00              | 60 | 40 | 1,5 | 7   | 4        |



**Art.no: 6077** (drilled and countersunk)  
with fixed steel pin

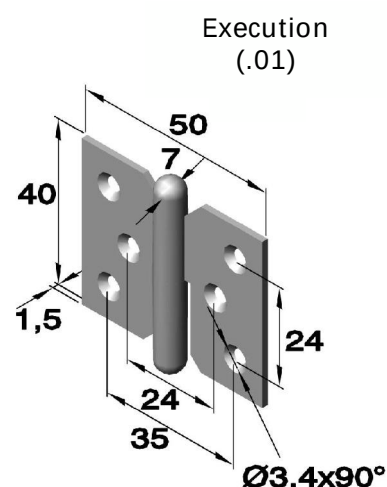
| Article no. |           |       |               |
|-------------|-----------|-------|---------------|
| Series      | Execution |       | Material      |
|             | Left      | Right | Nickel plated |
|             |           |       | Steel         |
| 6077        | .02       | .01   | .01           |



## Weld on hinges

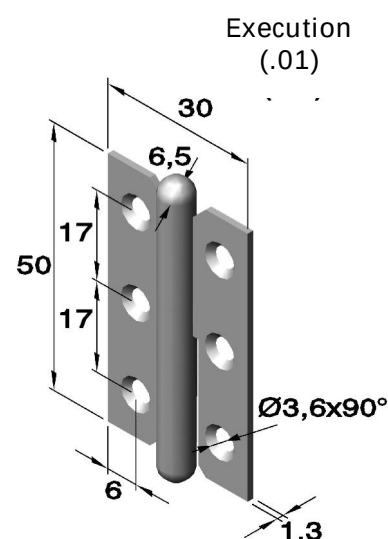
**Art.no: 6078** (drilled and countersunk)  
with fixed steel pin

| Article no. |           |       |                        |
|-------------|-----------|-------|------------------------|
| Series      | Execution |       | Material               |
|             | Left      | Right | Nickel plated<br>Steel |
| 6078        | .02       | .01   | .01                    |



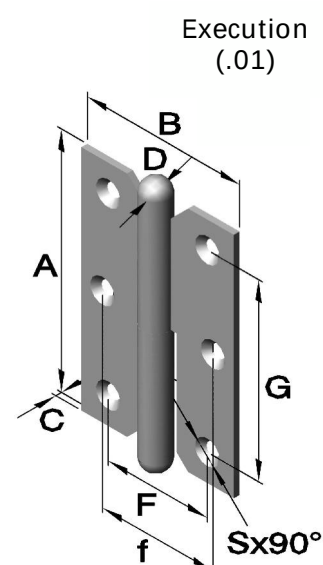
**Art.no: 6079** (drilled and countersunk)  
with fixed steel pin

| Article no. |           |       |                        |
|-------------|-----------|-------|------------------------|
| Series      | Execution |       | Material               |
|             | Left      | Right | Nickel plated<br>Steel |
| 6079        | .01       | .02   | .01                    |



**Art.no: 6080** (drilled and countersunk)  
with fixed steel pin

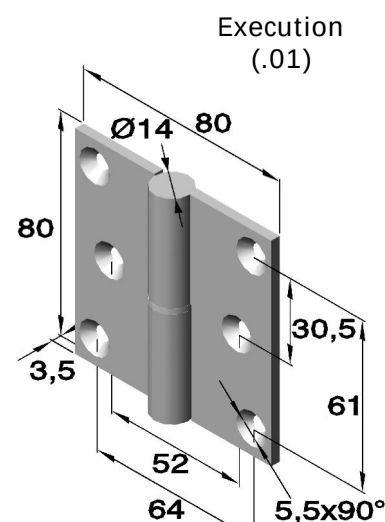
| Article no. |           |       |                        | Dimensions in mm |    |     |     |      |      |    |     |     |       |
|-------------|-----------|-------|------------------------|------------------|----|-----|-----|------|------|----|-----|-----|-------|
| Series      | Execution |       | Material               | A                | B  | C   | D   | F    | f    | G  | S   | Ø   | Pin Ø |
|             | Left      | Right | Nickel plated<br>Steel |                  |    |     |     |      |      |    |     |     |       |
| 6080        | .02       | .01   | .01                    | 60               | 40 | 1,5 | 7   | 26   | 29   | 46 | 3,4 | 4   |       |
| 6080        | .04       | .03   | .01                    | 70               | 45 | 1,5 | 7,5 | 30   | 33,5 | 54 | 4,5 | 4,5 |       |
| 6080        | .06       | .05   | .01                    | 80               | 50 | 1,5 | 8   | 31,5 | 35,5 | 62 | 4,5 | 5   |       |



## Weld on hinges

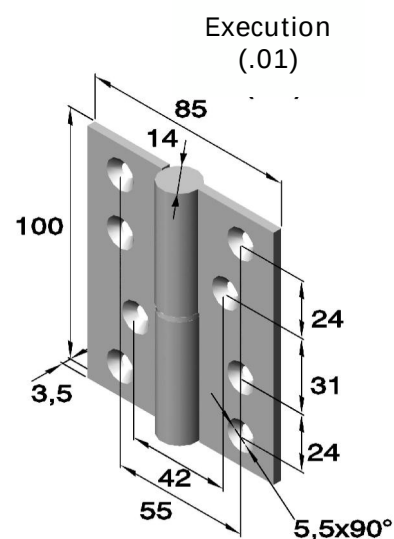
**Art. no.: 6085** (drilled and countersunk)  
with fixed, Zinc plated steel bolt and nylon coating

| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Anodized silver |
| 6085        | .01       | .02   | Aluminium       |
|             |           |       | .70             |



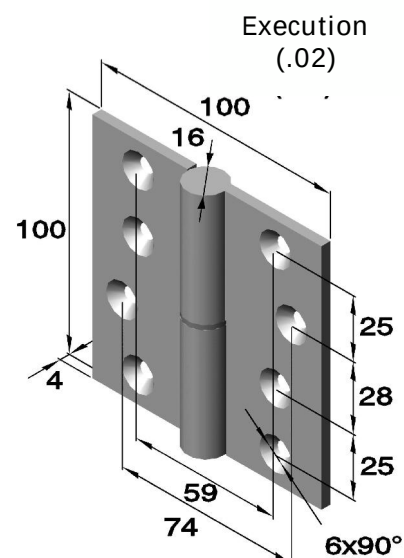
**Art. no.: 6086**  
with fixed, zinc plated steel bolt and nylon coating,

| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Anodized silver |
| 6086        | .01       | .02   | Aluminium       |
|             |           |       | .70             |



**Art. no.: 6087** (drilled and countersunk)  
with fixed, Zinc plated steel bolt and nylon coating,

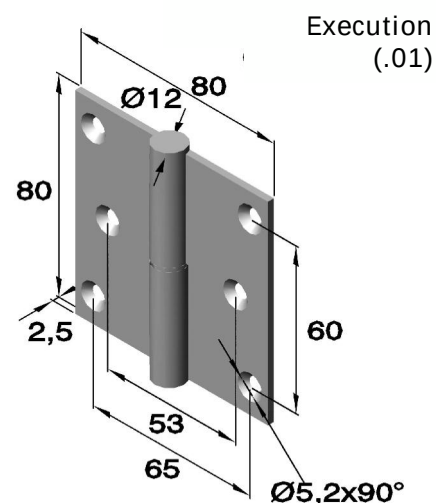
| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Anodized silver |
| 6087        | .01       | .02   | Aluminium       |
|             |           |       | .70             |



## Weld on hinges

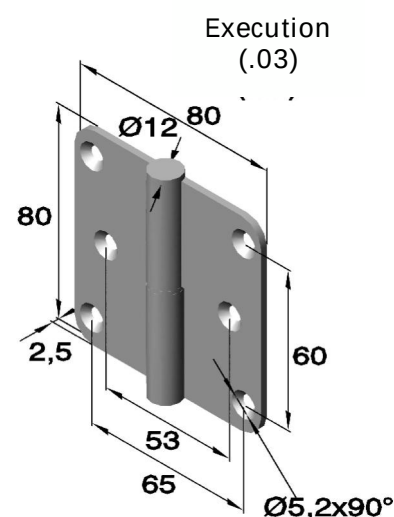
Art. no.: 6088 (drilled and countersunk)  
with fixed steel bolt and steel intermediate ring

| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Brushed         |
| 6088        | .01       | .02   | Stainless steel |
|             |           |       | .30             |



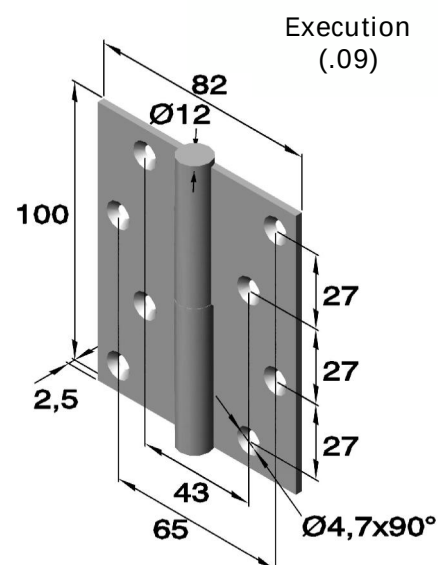
Art. no.: 6088 (drilled and countersunk)  
with fixed steel bolt and steel intermediate ring

| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Brushed         |
| 6088        | .03       | .04   | Stainless steel |
|             |           |       | .30             |



Art. no.: 6088 (drilled and countersunk)  
with fixed steel bolt and steel intermediate ring

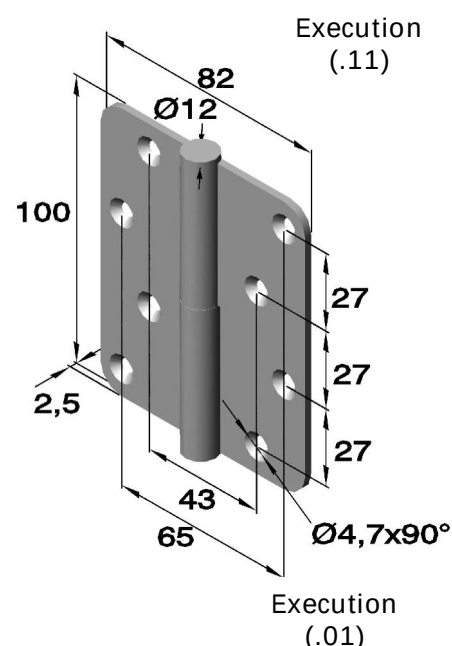
| Article no. |           |       |                 |
|-------------|-----------|-------|-----------------|
| Series      | Execution |       | Material        |
|             | Left      | Right | Brushed         |
| 6088        | .09       | .10   | Stainless steel |
|             |           |       | .30             |



## Weld on hinges

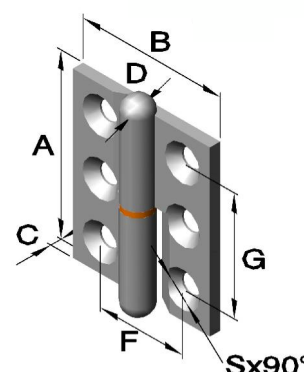
**Art. no.: 6088** (drilled and countersunk)  
with fixed steel bolt and steel intermediate ring

| Article no. |           |       |                 |  |
|-------------|-----------|-------|-----------------|--|
| Series      | Execution |       | Material        |  |
|             | Left      | Right | Brushed         |  |
|             |           |       | Stainless steel |  |
| 6088        | .11       | .12   | .30             |  |



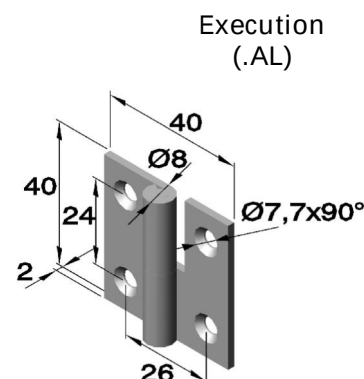
**Art.no: 6125** (drilled and countersunk)  
with fixed steel pin, with brass intermediate ring

| Article no. |           |       |          | Dimensions in mm |    |     |    |    |    |     |       |
|-------------|-----------|-------|----------|------------------|----|-----|----|----|----|-----|-------|
| Series      | Execution |       | Material | A                | B  | C   | D  | F  | G  | Ø S | Pin Ø |
|             | Left      | Right | Raw      |                  |    |     |    |    |    |     |       |
|             |           |       | Steel    |                  |    |     |    |    |    |     |       |
| 6125        | .01       | .06   | .00      | 48               | 40 | 3   | 8  | 24 | 32 | 4,5 | 4     |
| 6125        | .02       | .07   | .00      | 60               | 50 | 3,5 | 10 | 30 | 40 | 5,5 | 5     |
| 6125        | .03       | .08   | .00      | 72               | 60 | 4   | 12 | 36 | 48 | 6,5 | 6     |
| 6125        | .04       | .09   | .00      | 84               | 70 | 4,5 | 14 | 42 | 56 | 7,5 | 7     |
| 6125        | .05       | .10   | .00      | 96               | 80 | 5   | 16 | 48 | 66 | 8,5 | 8     |



**Art.no: 99.40402** (drilled and countersunk)  
with stainless steel pin, without intermediate ring

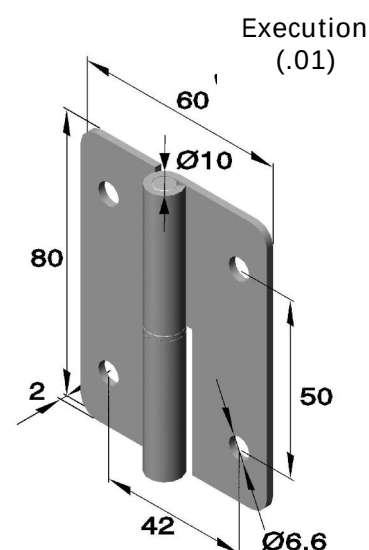
| Article no. |                  |           |       | Pin<br>Ø |
|-------------|------------------|-----------|-------|----------|
| Series      | Material         | Execution |       |          |
|             | Electro polished | Left      | Right |          |
|             | Stainless steel  |           |       |          |
| 99 40402    | 33               | /AL       | /AR   | 4        |



## Weld on hinges

**Art.no: 6129** (drilled)  
with stainless steel pin, with intermediate ring

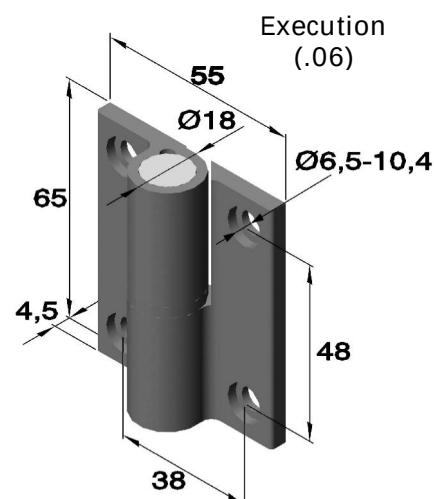
| Article no. |           |       |                 | Pin<br>Ø |
|-------------|-----------|-------|-----------------|----------|
| Series      | Execution |       | Material        |          |
|             | Left      | Right | Raw             |          |
|             |           |       | Stainless steel |          |
| 6129        | .01       | .02   | .30             | 6        |



**Art.no. 6088** (drilled and countersunk)  
with spring and nylon intermediate ring

The hinge moves itself automatically  
back to the initial position with an  
opening angle of up to 80°.  
Above 80° the spring function is cancelled.

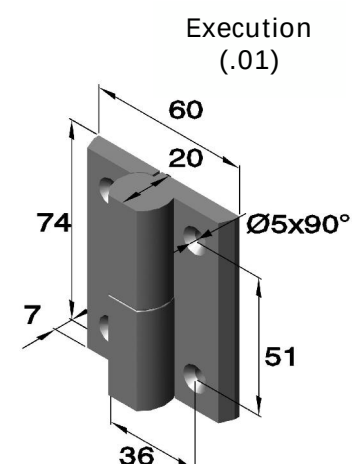
| Article no. |           |       |                       |
|-------------|-----------|-------|-----------------------|
| Series      | Execution |       | Material              |
|             | Left      | Right | Anodized<br>Aluminium |
|             |           |       |                       |
| 6088        | .05       | .06   | .77 Silver            |
| 6088        | .07       | .08   | .77 Black             |



**Art.no: 6124** (drilled and countersunk)  
with stainless steel pin

Maximum load: 40kg

| Article no. |           |       |           | Pin<br>Ø |
|-------------|-----------|-------|-----------|----------|
| Series      | Execution |       | Material  |          |
|             | Left      | Right | Raw       |          |
|             |           |       | Polyamid  |          |
| 6124        | .01       | .02   | .80 Black | 9,5      |



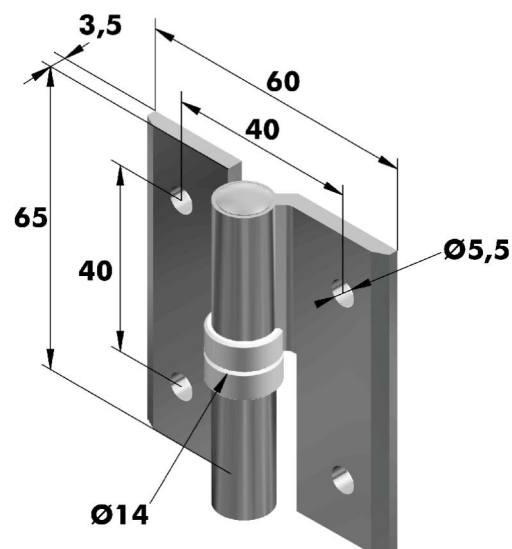


## Weld on hinges

**Art.no: 6961** (drilled)  
with stainless steel pin 1.4301

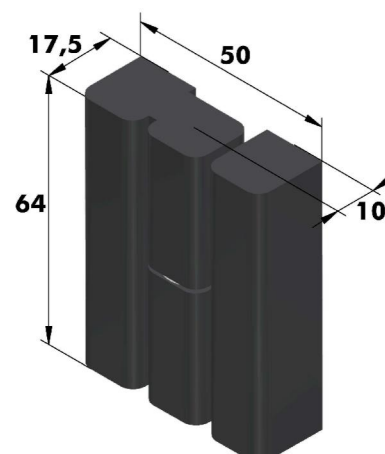
No metal-metal contact.  
Polyacetal sleeves minimize penetrating particles.  
Adapted for Doors 600 x 800

max. door weight: 8kg / Paar

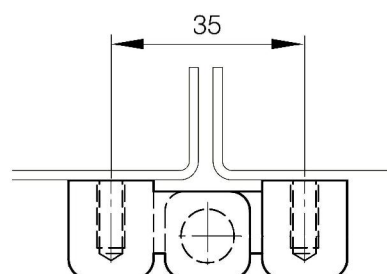
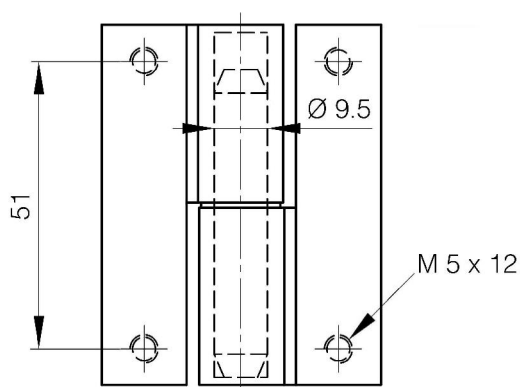


| Article no. |           |       | Dimensions in mm |          |
|-------------|-----------|-------|------------------|----------|
| Series      | Execution |       | Material         | Pin<br>Ø |
|             | Left      | Right | Raw              |          |
|             |           |       | Aluminium        |          |
| 6961        | .03       | .04   | .71              | 5        |

**Art.no: 6196** (with internal thread)  
washer is made of Nylon.



| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Black    |
|             |           | Zamak    |
| 6196        | .01       | .56      |
| 6196        | .02       | .56      |

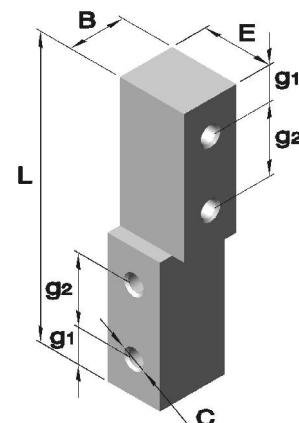


## Weld on hinges

### Art. no.: 6128

reinforced hinge hook bolts without intermediate ring  
with internal thread

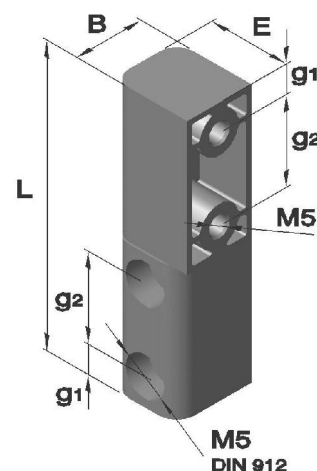
| Article no. |           |                 | Dimensions in mm |    |        |    |    |    |       |
|-------------|-----------|-----------------|------------------|----|--------|----|----|----|-------|
| Series      | Execution | Material        | L                | B  | C Ø    | E  | g1 | g2 | Pin Ø |
|             |           | Brushed         |                  |    |        |    |    |    |       |
|             |           | Stainless steel |                  |    |        |    |    |    |       |
| 6128        | .04       | .30             | 64               | 13 | M5x6   | 16 | 8  | 16 | 6     |
| 6128        | .05       | .30             | 76               | 13 | M6x7,5 | 19 | 10 | 19 | 6     |



### Art. no.: 6488 (drilled and countersunk)

hinge hook bolts without intermediate ring

| Article no. |           |          | Dimensions in mm |      |      |     |    |       |  |
|-------------|-----------|----------|------------------|------|------|-----|----|-------|--|
| Series      | Execution | Material | L                | B    | E    | g1  | g2 | Pin Ø |  |
|             |           | Black    |                  |      |      |     |    |       |  |
|             |           | Zamak    |                  |      |      |     |    |       |  |
| 6488        | .01       | .50      | 63,5             | 15,1 | 17,5 | 6,2 | 19 | 9,5   |  |

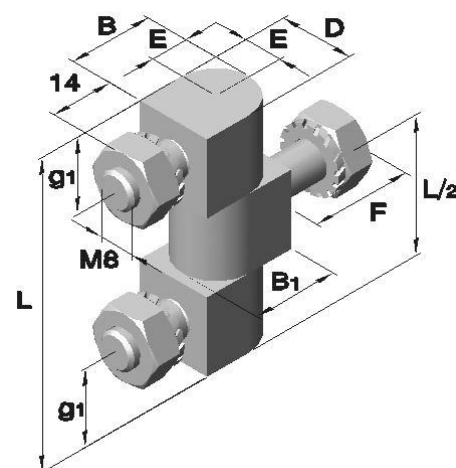


### Art. no.: 6101

with extractable brass bolt  
and zinc plated brass intermediate ring

Assembly kit with screw nuts and grommets.

| Article no. |           |             | Dimensions in mm |    |    |   |    |       |  |
|-------------|-----------|-------------|------------------|----|----|---|----|-------|--|
| Series      | Execution | Material    | L                | B  | D  | E | g1 | Pin Ø |  |
|             |           | Zinc plated |                  |    |    |   |    |       |  |
|             |           | Steel       |                  |    |    |   |    |       |  |
| 6101        | .03       | .04         | 33               | 18 | 16 | 8 | 8  | 8     |  |

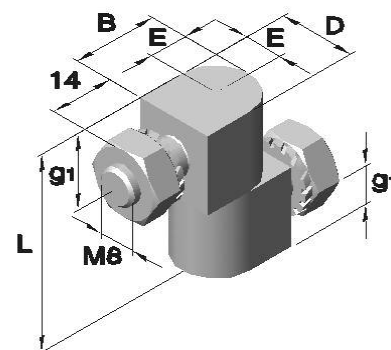


# Weld on hinges

## Art.no: 6101

with extractable brass pin  
and zinc plated brass intermediate ring

Assembly kit with screw nuts and grommets.

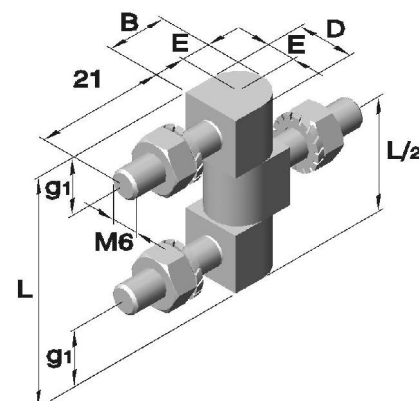


| Article no. |           |                      | Dimensions in mm |    |    |   |    |          |
|-------------|-----------|----------------------|------------------|----|----|---|----|----------|
| Series      | Execution | Material             | L                | B  | D  | E | g1 | Pin<br>Ø |
|             |           | Zinc plated<br>Steel |                  |    |    |   |    |          |
| 6101        | .03       | .04                  | 33               | 18 | 16 | 8 | 8  | 8        |

## Art. no.: 6101

with extractable steel bolt without intermediate ring

Assembly kit with screw nuts and grommets.

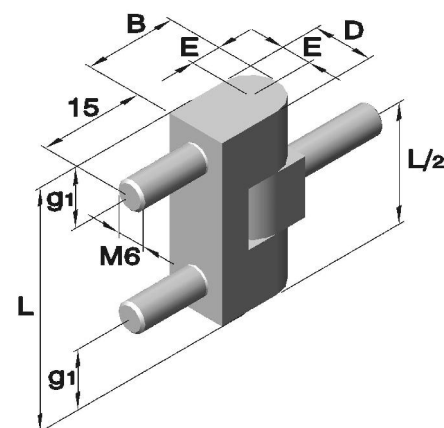


| Article no. |           |              | Dimensions in mm |      |    |   |    |          |
|-------------|-----------|--------------|------------------|------|----|---|----|----------|
| Series      | Execution | Material     | L                | B    | D  | E | g1 | Pin<br>Ø |
|             |           | Raw<br>Steel |                  |      |    |   |    |          |
| 6101        | .04       | .00          | 36               | 12,5 | 12 | 6 | 6  | 6        |

## Art. no.: 6101

with extractable steel pin

Without screw nuts and grommets.

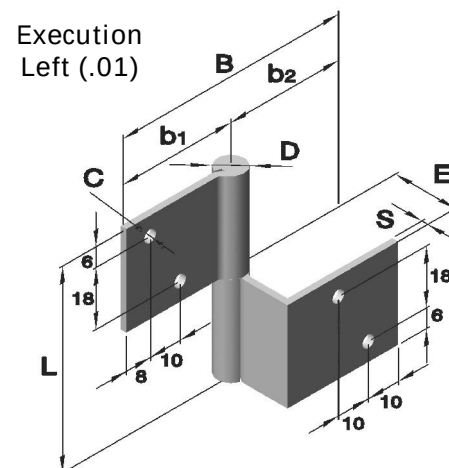


| Article no. |           |              | Dimensions in mm |      |    |   |    |          |
|-------------|-----------|--------------|------------------|------|----|---|----|----------|
| Series      | Execution | Material     | L                | B    | D  | E | g1 | Pin<br>Ø |
|             |           | Raw<br>Steel |                  |      |    |   |    |          |
| 6101        | .05       | .00          | 36               | 18,5 | 12 | 6 | 6  | 6        |

## Weld on hinges

Art. no.: 6121 (drilled)  
with fixed pin

| Article no. |           |       | Dimensions in mm       |    |    |    |    |     |   |    |   |       |
|-------------|-----------|-------|------------------------|----|----|----|----|-----|---|----|---|-------|
| Series      | Execution |       | Material               | L  | B  | b1 | b2 | C Ø | D | E  | S | Pin Ø |
|             | Left      | Right | Raw<br>Stainless steel |    |    |    |    |     |   |    |   |       |
| 6121        | .01       | .02   | .30                    | 60 | 72 | 36 | 36 | 4   | 9 | 18 | 2 | 5     |



Art.no.: 6198

Body in aluminium, shaft in stainless steel.  
Covers in Polyacetal (POM)

Friction in one direction only.

30.000 load change.

Torque is constant in torque direction.

Torque per pair: 9 N/m

Initial torque may vary from - 20% and + 40%.

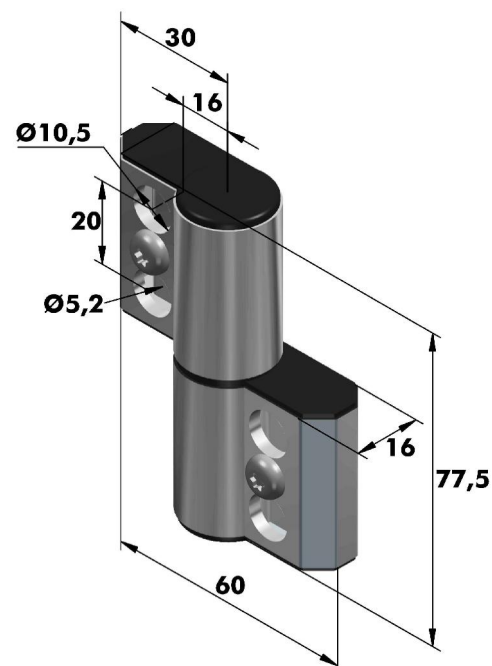
Torque will be affected by temperature.

Do not lubricate.

Not suited for vibration environment.

For indoor use only.

Sold in pairs.



| Article no. |           |                       |
|-------------|-----------|-----------------------|
| Series      | Execution | Material              |
|             |           | Anodised<br>Aluminium |
| 6198        | .01       | .70                   |
| 6198        | .02       | .70                   |

## Weld on hinges

Art.no.: 6879

Torque (per pair): 5 - 7 N/m.

Temperature range: 0 - +40°C.

Soft-close damper keeps lid from slamming shut.

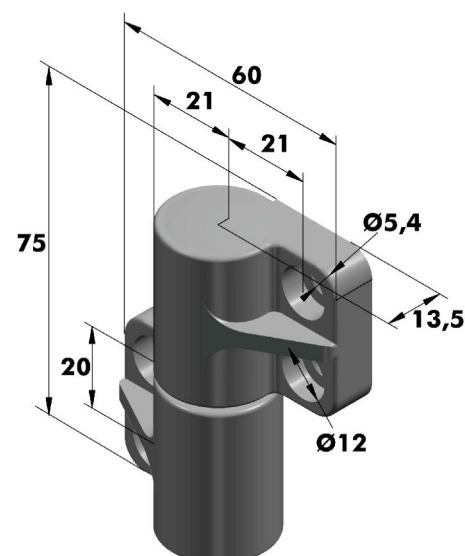
Opening angle: 115°.

Do not use over 115°!

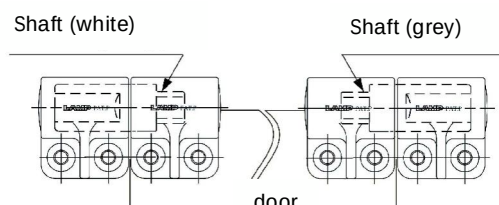
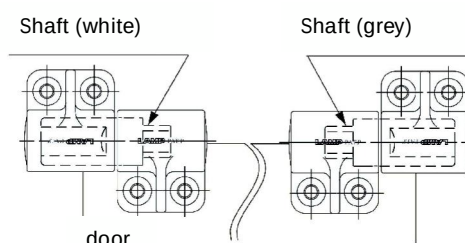
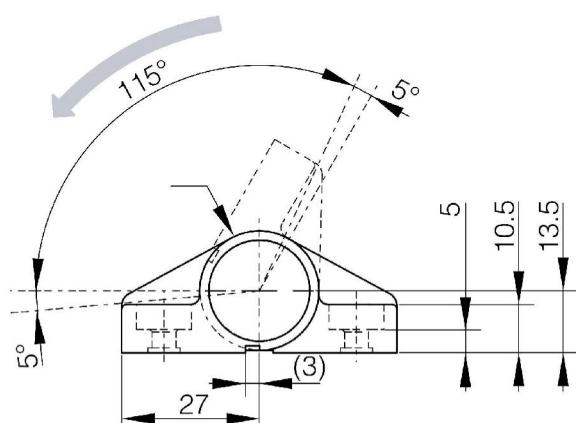
When the door opening angle is small, the dampers may not work smoothly.

Provide a door stopper to prevent from overturning beyond the prescribed angle range.

Do not force the door to close faster in damper effective direction.



| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | PBT Plastic |
| 6879        | .01       | .02         |



## Weld on hinges

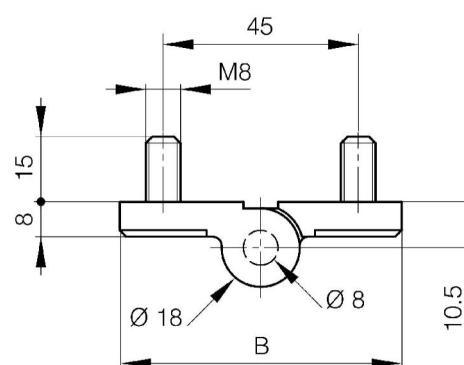
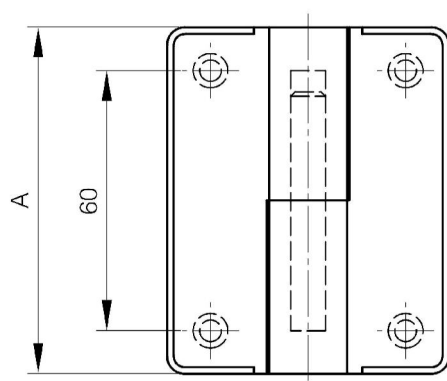
Art.no: 6195

Stainless steel pin

Fastening with stud bolt.



| Article no. |           |       |                | Dimensions in mm |    |
|-------------|-----------|-------|----------------|------------------|----|
| Series      | Execution |       | Material       | A                | B  |
|             | Left      | Right |                |                  |    |
| 6195        | .01       | .02   | Black<br>Zamak | 60               | 72 |







## Weld on hinge-rolls



## Weld on hinge-rolls



## Weld on hinge-rolls

|     |                                        |
|-----|----------------------------------------|
| ABR | weld on hinge rolls with round ends    |
| ABF | weld on hinge rolls with flat ends     |
| AB  | weld on hinge rolls 3-parts            |
| ABN | weld on hinge rolls with grease nipple |
| AK  | weld on ball pin                       |
| AG  | weld on joint                          |

### Material:

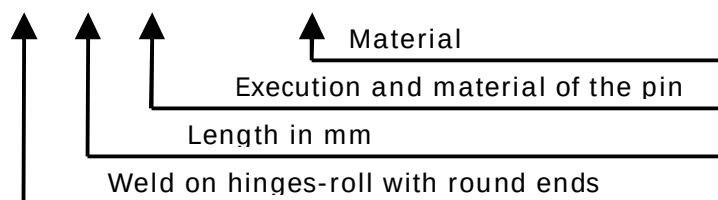
|     |                           |
|-----|---------------------------|
| .00 | raw steel                 |
| .30 | raw stainless steel (V2A) |
| .35 | raw stainless steel (V4A) |
| .70 | raw aluminium             |

### Execution and finishing of the pins:

|     |                                       |
|-----|---------------------------------------|
| FES | with fixed steel pin.                 |
| AES | with extractable steel pin.           |
| FMS | with fixed brass pin.                 |
| AMS | with extractable brass pin.           |
| FVS | with fixed stainless steel pin.       |
| AVS | with extractable stainless steel pin. |

### Ordering example:

Art.no. ABR 100 FES .00/.30/.35/.70



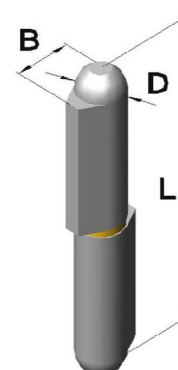
## Weld on hinge-rolls

Weld on hinge-rolls „ABR“ with round ends

FES with fixed steel pin and brass-intermediate ring

FMS with fixed brass pin and brass-intermediate ring

| Article no. |     |           |     | Dimensions in mm |    |      |       |                            |
|-------------|-----|-----------|-----|------------------|----|------|-------|----------------------------|
| Series      | L   | Execution |     | Material         | D  | B    | Pin Ø | Load capacity<br>ca. in kg |
|             |     |           |     | Raw              |    |      |       |                            |
|             |     |           |     | Steel            |    |      |       |                            |
| ABR         | 40  | FES       | FMS | .00              | 8  | 10   | 5     | 65                         |
| ABR         | 50  | FES       | FMS | .00              | 8  | 10   | 5     | 65                         |
| ABR         | 60  | FES       | FMS | .00              | 10 | 12   | 6     | 80                         |
| ABR         | 70  | FES       | FMS | .00              | 10 | 12   | 6     | 80                         |
| ABR         | 80  | FES       | FMS | .00              | 13 | 16   | 8     | 130                        |
| ABR         | 90  | FES       | FMS | .00              | 13 | 16   | 8     | 130                        |
| ABR         | 100 | FES       | FMS | .00              | 16 | 20   | 10    | 200                        |
| ABR         | 120 | FES       | FMS | .00              | 16 | 20   | 10    | 200                        |
| ABR         | 135 | FES       | FMS | .00              | 18 | 22,5 | 12    | 250                        |
| ABR         | 150 | FES       | FMS | .00              | 20 | 25,5 | 13    | 290                        |
| ABR         | 180 | FES       | FMS | .00              | 20 | 25,5 | 13    | 290                        |
| ABR         | 200 | FES       | FMS | .00              | 23 | 29   | 16    | 350                        |

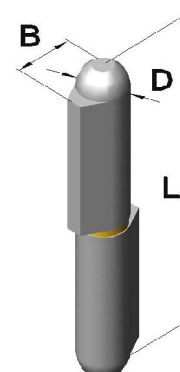


Weld on hinge-rolls „ABR“ with round ends

AES with extractable steel pin and brass-intermediate ring

AMS with extractable brass pin and brass-intermediate ring

| Article no. |     |           |     | Dimensions in mm |    |      |       |                            |
|-------------|-----|-----------|-----|------------------|----|------|-------|----------------------------|
| Series      | L   | Execution |     | Material         | D  | B    | Pin Ø | Load capacity<br>ca. in kg |
|             |     |           |     | Raw              |    |      |       |                            |
|             |     |           |     | Steel            |    |      |       |                            |
| ABR         | 40  | AES       | AMS | .00              | 8  | 10   | 5     | 50                         |
| ABR         | 50  | AES       | AMS | .00              | 8  | 10   | 5     | 50                         |
| ABR         | 60  | AES       | AMS | .00              | 10 | 12   | 6     | 80                         |
| ABR         | 80  | AES       | AMS | .00              | 13 | 16   | 8     | 100                        |
| ABR         | 100 | AES       | AMS | .00              | 16 | 20   | 10    | 180                        |
| ABR         | 120 | AES       | AMS | .00              | 16 | 20   | 10    | 180                        |
| ABR         | 135 | AES       | AMS | .00              | 18 | 22,5 | 12    | 200                        |
| ABR         | 150 | AES       | AMS | .00              | 20 | 25,5 | 13    | 240                        |
| ABR         | 180 | AES       | AMS | .00              | 20 | 25,5 | 13    | 240                        |
| ABR         | 200 | AES       | AMS | .00              | 23 | 29   | 16    | 300                        |



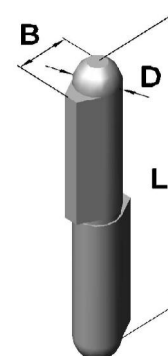
## Weld on hinge-rolls

Weld on hinge-rolls „ABR“ with round ends

**FVS** with fixed stainless steel pin and stainless steel intermediate ring.

**AVS** with extractable stainless steel pin and stainless steel intermediate ring.

| Article no. |     |           |     |                       | Dimensions in mm |      |    |                            |
|-------------|-----|-----------|-----|-----------------------|------------------|------|----|----------------------------|
| Series      | L   | Execution |     | Material              | D                | B    | d  | Load capacity<br>ca. in kg |
|             |     |           |     | Raw                   |                  |      |    |                            |
|             |     |           |     | Stainless steel (V2A) |                  |      |    |                            |
| ABR         | 40  | FVS       | -   | .30                   | 8                | 10   | 5  | 130                        |
| ABR         | 50  | FVS       | -   | .30                   | 8                | 10   | 5  | 130                        |
| ABR         | 60  | FVS       | AVS | .30                   | 10               | 12   | 6  | 180                        |
| ABR         | 80  | FVS       | AVS | .30                   | 13               | 16   | 8  | 260                        |
| ABR         | 90  | FVS       | -   | .30                   | 13               | 16   | 8  | 260                        |
| ABR         | 100 | FVS       | AVS | .30                   | 16               | 20   | 10 | 310                        |
| ABR         | 120 | FVS       | AVS | .30                   | 16               | 20   | 10 | 310                        |
| ABR         | 135 | FVS       | -   | .30                   | 18               | 22,5 | 12 | 350                        |
| ABR         | 150 | FVS       | AVS | .30                   | 20               | 25,5 | 13 | 400                        |
| ABR         | 180 | FVS       | AVS | .30                   | 20               | 25,5 | 13 | 500                        |

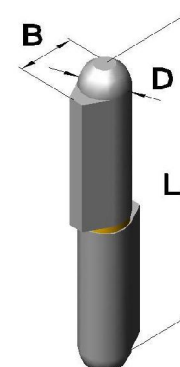


| Article no. |     |           |                       | Dimensions in mm |      |    |                            |
|-------------|-----|-----------|-----------------------|------------------|------|----|----------------------------|
| Series      | L   | Execution | Material              | D                | B    | d  | Load capacity<br>ca. in kg |
|             |     |           | Raw                   |                  |      |    |                            |
|             |     |           | Stainless steel (V4A) |                  |      |    |                            |
| ABR         | 60  | FVS       | .35                   | 13               | 16   | 8  | 160                        |
| ABR         | 80  | FVS       | .35                   | 13               | 16   | 8  | 260                        |
| ABR         | 100 | FVS       | .35                   | 16               | 20   | 10 | 400                        |
| ABR         | 120 | FVS       | .35                   | 16               | 20   | 10 | 400                        |
| ABR         | 150 | FVS       | .35                   | 20               | 25,5 | 13 | 580                        |
| ABR         | 180 | FVS       | .35                   | 20               | 25,5 | 13 | 580                        |

Weld on hinge-rolls „ABR“ with round ends

**FVS** with fixed stainless steel pin and brass intermediate ring.

**AVS** with extractable stainless steel pin and brass intermediate ring.

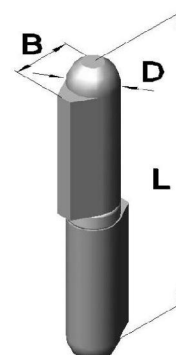


## Weld on hinge-rolls

| Article no. |     |           |     |           | Dimensions in mm |      |    |                            |
|-------------|-----|-----------|-----|-----------|------------------|------|----|----------------------------|
| Series      | L   | Execution |     | Material  | D                | B    | d  | Load capacity<br>ca. in kg |
|             |     |           |     | Raw       |                  |      |    |                            |
|             |     |           |     | Aluminium |                  |      |    |                            |
| ABR         | 60  | FVS       | AVS | .70       | 10               | 12   | 6  | 50                         |
| ABR         | 80  | FVS       | AVS | .70       | 13               | 16   | 8  | 70                         |
| ABR         | 100 | FVS       | -   | .70       | 16               | 20   | 10 | 100                        |
| ABR         | 120 | FVS       | AVS | .70       | 16               | 20   | 10 | 120                        |
| ABR         | 150 | FVS       | -   | .70       | 20               | 25,5 | 13 | 150                        |
| ABR         | 180 | FVS       | -   | .70       | 20               | 25,5 | 13 | 170                        |

Weld on hinge-rolls „ABR“ with round ends  
FES with fixed steel pin and ball bearing

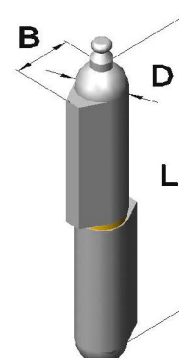
| Article no. |       |           |          | Dimensions in mm |      |       |                            |
|-------------|-------|-----------|----------|------------------|------|-------|----------------------------|
| Series      | L     | Execution | Material | D                | B    | Pin Ø | Load capacity<br>ca. in kg |
|             |       |           | Raw      |                  |      |       |                            |
|             |       |           | Steel    |                  |      |       |                            |
| ABR         | 141   | FES       | .00      | 18               | 22,5 | 12    | 250                        |
| ABR         | 155.5 | FES       | .00      | 20               | 25,5 | 13    | 290                        |
| ABR         | 206   | FES       | .00      | 23               | 29   | 16    | 350                        |



Weld on hinge-rolls „ABN“ with round ends and grease nipple

FES with fixed steel pin and brass intermediate ring  
FMS with fixed brass pin and brass intermediate ring

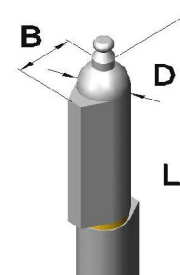
| Article no. |     |           |     |          | Dimensions in mm |      |       |                            |
|-------------|-----|-----------|-----|----------|------------------|------|-------|----------------------------|
| Series      | L   | Execution |     | Material | D                | B    | Pin Ø | Load capacity<br>ca. in kg |
|             |     |           |     | Raw      |                  |      |       |                            |
|             |     |           |     | Steel    |                  |      |       |                            |
| ABN         | 60  | FES       | FMS | .00      | 10               | 12   | 6     | 80                         |
| ABN         | 80  | FES       | FMS | .00      | 13               | 16   | 8     | 130                        |
| ABN         | 100 | FES       | FMS | .00      | 16               | 20   | 10    | 200                        |
| ABN         | 120 | FES       | FMS | .00      | 16               | 20   | 10    | 200                        |
| ABN         | 135 | FES       | FMS | .00      | 18               | 22,5 | 12    | 250                        |
| ABN         | 150 | FES       | FMS | .00      | 20               | 25,5 | 13    | 290                        |
| ABN         | 180 | FES       | FMS | .00      | 20               | 25,5 | 13    | 290                        |
| ABN         | 200 | FES       | FMS | .00      | 23               | 29   | 16    | 350                        |



Weld on hinge rolls „ABN“ with round ends and grease nipple

FVS with fixed stainless steel pin and stainless steel intermediate ring.

| Article no. |   |           |  | Dimensions in mm |   |   |       |
|-------------|---|-----------|--|------------------|---|---|-------|
| Series      | L | Execution |  | Material         | D | B | Pin Ø |
|             |   |           |  |                  |   |   |       |



## Weld on hinge-rolls

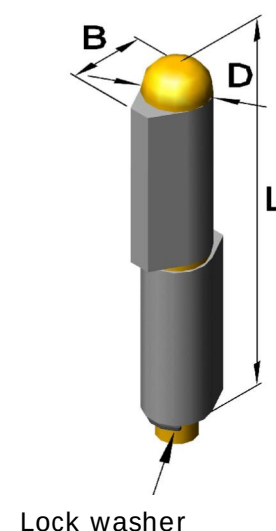
|     |     |     | Raw                   |    |      |    | capacity<br>ca. in kg |
|-----|-----|-----|-----------------------|----|------|----|-----------------------|
|     |     |     | Stainless steel (V2A) |    |      |    |                       |
| ABN | 60  | FVS | .30                   | 13 | 16   | 8  | 160                   |
| ABN | 80  | FVS | .30                   | 13 | 16   | 8  | 260                   |
| ABN | 100 | FVS | .30                   | 16 | 20   | 10 | 400                   |
| ABN | 120 | FVS | .30                   | 16 | 20   | 10 | 400                   |
| ABN | 135 | FVS | .30                   | 20 | 25,5 | 13 | 500                   |
| ABN | 150 | FVS | .30                   | 20 | 25,5 | 13 | 580                   |
| ABN | 180 | FVS | .30                   | 20 | 25,5 | 13 | 580                   |

Weld on hinge-rolls „ABS“ with round ends

AES with extractable steel pin and brass intermediate ring.

AMS with extractable steel pin and brass intermediate ring.

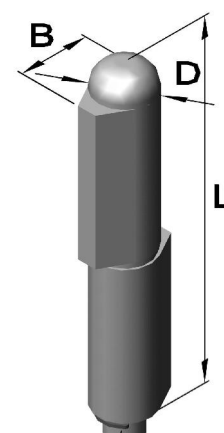
| Article no. |     |           |     |          | Dimensions in mm |      |          |                               |
|-------------|-----|-----------|-----|----------|------------------|------|----------|-------------------------------|
| Series      | L   | Execution |     | Material | D                | B    | Pin<br>Ø | Load<br>capacity<br>ca. in kg |
|             |     |           |     | Raw      |                  |      |          |                               |
|             |     |           |     | Steel    |                  |      |          |                               |
| ABS         | 40  | AES       | AMS | .00      | 8                | 10   | 5        | 50                            |
| ABS         | 50  | AES       | AMS | .00      | 8                | 10   | 5        | 50                            |
| ABS         | 60  | AES       | AMS | .00      | 10               | 12   | 6        | 80                            |
| ABS         | 80  | AES       | AMS | .00      | 13               | 16   | 8        | 100                           |
| ABS         | 100 | AES       | AMS | .00      | 16               | 20   | 10       | 180                           |
| ABS         | 120 | AES       | AMS | .00      | 16               | 20   | 10       | 180                           |
| ABS         | 135 | AES       | AMS | .00      | 18               | 22,5 | 12       | 200                           |
| ABS         | 150 | AES       | AMS | .00      | 20               | 25,5 | 13       | 240                           |
| ABS         | 180 | AES       | AMS | .00      | 20               | 25,5 | 13       | 240                           |
| ABS         | 200 | AES       | AMS | .00      | 23               | 29   | 16       | 300                           |



Weld on hinge rolls „ABS“ with round ends

AVS with extractable stainless steel pin and stainless steel intermediate ring.

| Article no. |     |           |                       | Dimensions in mm |    |    |                            |
|-------------|-----|-----------|-----------------------|------------------|----|----|----------------------------|
| Series      | L   | Execution | Material              | D                | B  | d  | Load capacity<br>ca. in kg |
|             |     |           | Raw                   |                  |    |    |                            |
|             |     |           | Stainless steel (V2A) |                  |    |    |                            |
| ABS         | 60  | AVS       | .30                   | 13               | 16 | 8  | 80                         |
| ABS         | 80  | AVS       | .30                   | 13               | 16 | 8  | 100                        |
| ABS         | 100 | AVS       | .30                   | 16               | 20 | 10 | 180                        |





# Weld on hinge-rolls

|     |     |     |     |    |      |    |     |
|-----|-----|-----|-----|----|------|----|-----|
| ABS | 120 | AVS | .30 | 16 | 20   | 10 | 180 |
| ABS | 150 | AVS | .30 | 20 | 25,5 | 13 | 240 |
| ABS | 180 | AVS | .30 | 20 | 25,5 | 13 | 240 |

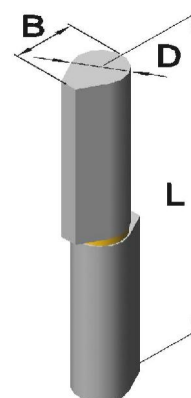
Lock washer

Weld on hinge rolls „ABF“ with flat ends

FES with fixed steel pin and brass intermediate ring

FMS with fixed brass pin and brass intermediate ring

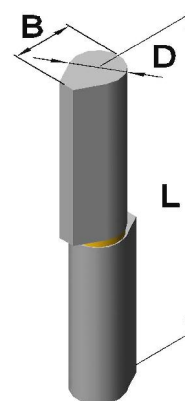
| Article no. |     |           |     |          | Dimensions in mm |      |       |                         |
|-------------|-----|-----------|-----|----------|------------------|------|-------|-------------------------|
| Series      | L   | Execution |     | Material | D                | B    | Pin Ø | Load capacity ca. in kg |
|             |     |           |     | Raw      |                  |      |       |                         |
|             |     |           |     | Steel    |                  |      |       |                         |
| ABF         | 45  | FES       | FMS | .00      | 8                | 10   | 5     | 65                      |
| ABF         | 60  | FES       | FMS | .00      | 10               | 12   | 6     | 80                      |
| ABF         | 80  | FES       | FMS | .00      | 13               | 16   | 7     | 80                      |
| ABF         | 100 | FES       | FMS | .00      | 16               | 20   | 9     | 130                     |
| ABF         | 120 | FES       | FMS | .00      | 16               | 20   | 9     | 130                     |
| ABF         | 140 | FES       | FMS | .00      | 20               | 25,5 | 11    | 200                     |
| ABF         | 200 | FES       | -   | .00      | 23               | 29   | 16    | 350                     |



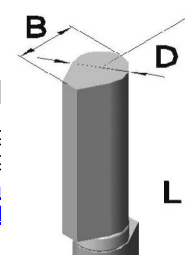
Weld on hinge rolls „ABF“ with flat ends

FVS with fixed stainless steel pin and brass intermediate ring.

| Article no. |     |           |                       | Dimensions in mm |    |          |                               |
|-------------|-----|-----------|-----------------------|------------------|----|----------|-------------------------------|
| Series      | L   | Execution | Material              | D                | B  | Pin<br>Ø | Load<br>capacity<br>ca. in kg |
|             |     |           | Raw                   |                  |    |          |                               |
|             |     |           | Stainless steel (V2A) |                  |    |          |                               |
| ABF         | 60  | FVS       | .30                   | 10               | 12 | 6        | 180                           |
| ABF         | 80  | FVS       | .30                   | 13               | 16 | 7        | 180                           |
| ABF         | 100 | FVS       | .30                   | 16               | 20 | 9        | 260                           |
| ABF         | 120 | FVS       | .30                   | 16               | 20 | 9        | 260                           |



Weld on hinge rolls „ABF“ with flat ends



# Weld on hinge-rolls

FES with fixed steel pin and ball bearing

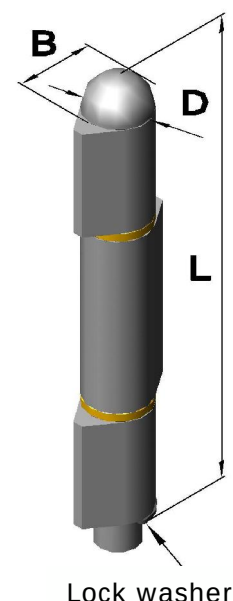
| Article no. |     |           |          | Dimensions |    |          |                               |
|-------------|-----|-----------|----------|------------|----|----------|-------------------------------|
| Series      | L   | Execution | Material | D          | B  | Pin<br>Ø | Load<br>capacity<br>ca. in kg |
|             |     |           | Raw      |            |    |          |                               |
|             |     |           | Steel    |            |    |          |                               |
| ABF         | 84  | FES       | .00      | 13         | 16 | 7        | 80                            |
| ABF         | 104 | FES       | .00      | 16         | 20 | 9        | 130                           |

Weld on hinge-rolls „AB“ 3-parts

AES with extractable steel pin and brass intermediate ring

AMS with extractable brass pin and brass intermediate ring

| article no. |       |           |     |          | dimensions in mm |      |          |                            |
|-------------|-------|-----------|-----|----------|------------------|------|----------|----------------------------|
| series      | L     | execution |     | material | D                | B    | pin<br>Ø | load capacity<br>ca. in kg |
|             |       |           |     | raw      |                  |      |          |                            |
|             |       |           |     | steel    |                  |      |          |                            |
| AB          | 135/3 | AES       | AMS | .00      | 18               | 22,5 | 12       | 790                        |
| AB          | 150/3 | AES       | AMS | .00      | 20               | 25,5 | 13       | 960                        |
| AB          | 180/3 | AES       | AMS | .00      | 20               | 25,5 | 13       | 1300                       |
| AB          | 200/3 | AES       | AMS | .00      | 23               | 29   | 16       | 2000                       |



Weld on hinge rolls „AB“ 3- parts

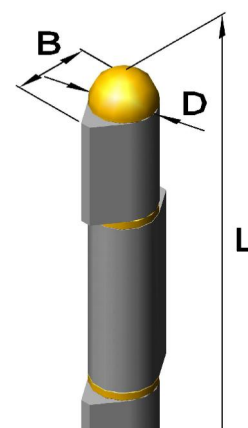
AVS with extractable stainless steel pin and brass intermediate ring

| Article no. |       |           |          | Dimensions in mm |      |          |                            |
|-------------|-------|-----------|----------|------------------|------|----------|----------------------------|
| Art.        | L     | Execution | Material | D                | B    | Pin<br>Ø | Load capacity<br>ca. in kg |
|             |       |           | V2A      |                  |      |          |                            |
| AB          | 135/3 | AVS       | .30      | 18               | 22.5 | 12       | 790                        |
| AB          | 150/3 | AVS       | .30      | 20               | 25.5 | 13       | 960                        |
| AB          | 180/3 | AVS       | .30      | 20               | 25.5 | 13       | 1300                       |

Weld on hinge-rolls „AB“ 3-parts with grease nipple

AMS with extractable brass pin and brass intermediate ring

| Article no. |   |           |          | Dimensions in mm |   |     |      |
|-------------|---|-----------|----------|------------------|---|-----|------|
| Series      | L | Execution | Material | D                | B | Pin | Load |



## Weld on hinge-rolls

|     |       |     | Raw<br>Steel |    |      | Ø  | capacity<br>ca. in kg |
|-----|-------|-----|--------------|----|------|----|-----------------------|
| ABN | 135/3 | AMS | .00          | 18 | 22,5 | 12 | 790                   |
| ABN | 150/3 | AMS | .00          | 20 | 25,5 | 13 | 960                   |
| ABN | 180/3 | AMS | .00          | 20 | 25,5 | 13 | 1300                  |
| ABN | 200/3 | AMS | .00          | 23 | 29   | 16 | 2000                  |

Grease nipple

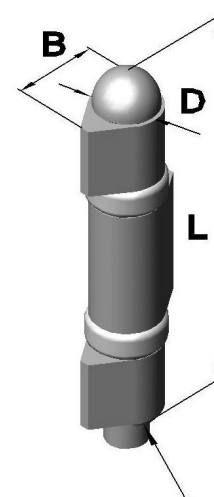
Lock washer

Weld on hinge rolls „AB“ 3 parts with 2 ball bearings

AES with extendable steel pin and 2 ball bearings

AMS with extendable brass pin and 2 ball bearings

| Article no. |       |           |     | Dimensions in mm         |    |      |       |
|-------------|-------|-----------|-----|--------------------------|----|------|-------|
| Series      | L     | Execution |     | Material<br>Raw<br>Steel | D  | B    | Pin Ø |
| AB          | 90/3  | AES       | AMS | .00                      | 20 | 25,5 | 12    |
| AB          | 110/3 | AES       | AMS | .00                      | 23 | 29   | 13    |

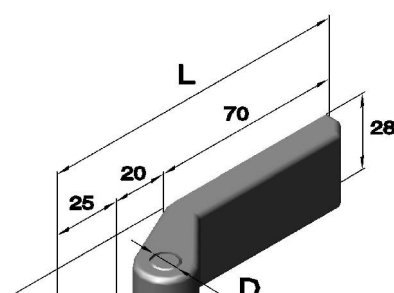
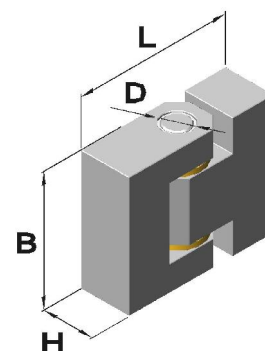


Lock washer

Weld on joints „AG“ With fixed steel pin

FES stored on self greased sleeves and brass intermediate ring.

| Article no. |     |           |          |                       | Dimensions in mm |    |    |                            |
|-------------|-----|-----------|----------|-----------------------|------------------|----|----|----------------------------|
| Series      | L   | Execution | Material |                       | B                | H  | D  | Load capacity<br>ca. in kg |
|             |     |           | Steel    | Stainless steel (V2A) |                  |    |    |                            |
| AG          | 60  | FES       | .00      | -                     | 50               | 20 | 10 | 1000                       |
| AG          | 70  | FES       | .00      | .30                   | 60               | 25 | 12 | 4000                       |
| AG          | 80  | FES       | .00      | -                     | 60               | 30 | 15 | 5000                       |
| AG          | 100 | FES       | .00      | -                     | 80               | 40 | 20 | 9000                       |
| AG          | 120 | FES       | .00      | -                     | 100              | 50 | 25 | 10000                      |
| AG          | 140 | FES       | .00      | -                     | 120              | 60 | 30 | 10000+                     |



# Weld on hinge-rolls

Weld on plug „AK“

AES with extractable steel pin and ball bearing

| Article no. |     |           |           | Dimensions in mm |    |    |                         |
|-------------|-----|-----------|-----------|------------------|----|----|-------------------------|
| Series      | L   | Execution | Material  | B                | H  | D  | Load capacity ca. in kg |
|             |     |           | Raw Steel |                  |    |    |                         |
| AK          | 115 | AES       | .00       | 30               | 63 | 10 | -                       |

„Adjustable size and width“

Weld on hinge rolls „AB“

„Adjustable size and width“

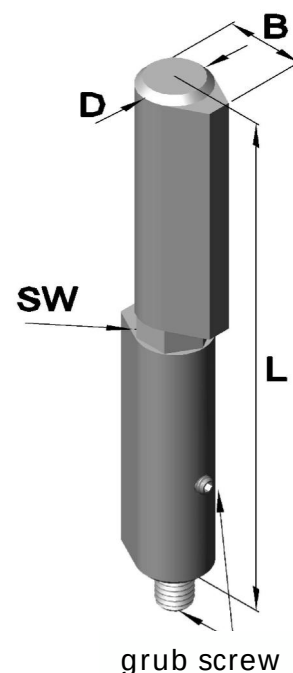
AES with extractable steel pin

AMS with extractable brass pin

| Article no. |     |           |        |           | Dimensions in mm |      |       |    |                        |
|-------------|-----|-----------|--------|-----------|------------------|------|-------|----|------------------------|
| Series      | L   | Execution |        | Material  | D                | B    | Pin Ø | SW | Load capacity ca in kg |
|             |     |           |        | Raw Steel |                  |      |       |    |                        |
| AB          | 118 | AES-3D    | AMS-3D | .00       | 20               | 25,5 | 12    | 17 | -                      |
| AB          | 147 | AES-3D    | AMS-3D | .00       | 23               | 28,5 | 12    | 17 | -                      |

AVS with extractable steel pin

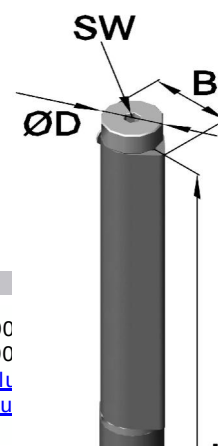
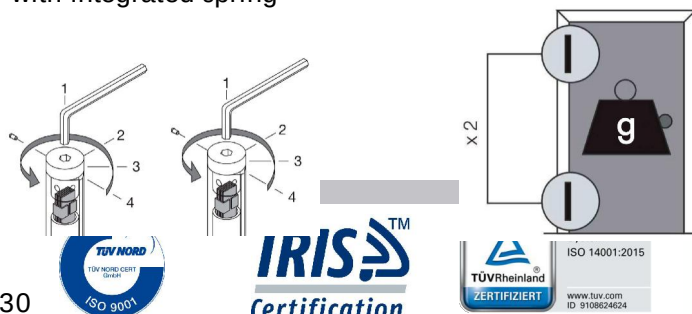
| Article no. |     |           |  |                           | Dimensions in mm |      |       |    |                        |
|-------------|-----|-----------|--|---------------------------|------------------|------|-------|----|------------------------|
| Series      | L   | Execution |  | Material                  | D                | B    | Pin Ø | SW | Load capacity ca in kg |
|             |     |           |  | Raw Stainless steel (V2A) |                  |      |       |    |                        |
| AB          | 118 | AVS-3D    |  | .30                       | 20               | 25,5 | 12    | 17 | -                      |



„With adjustable spring“

Art.no. 158.I-5 \_\_\_\_ . \_\_\_\_ (spring force adjustable)

with integrated spring



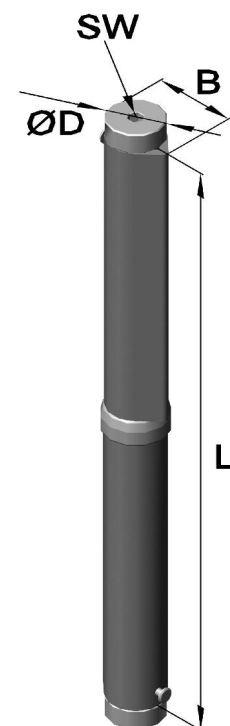
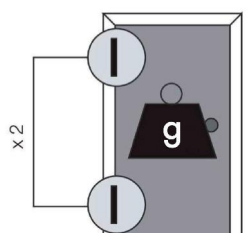
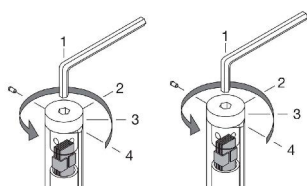
## Weld on hinge-rolls

| Article no. |          |                          | Dimensions<br>in mm |    |    |    | Loading capacity<br>in kg |
|-------------|----------|--------------------------|---------------------|----|----|----|---------------------------|
| Series      | Material |                          | L                   | B  | SW | ØD | g                         |
|             | Raw      |                          |                     |    |    |    |                           |
|             | Steel    | Stainless steel<br>(V2A) |                     |    |    |    |                           |
| 158.I-5524  | .00      | .05.30                   | 120                 | 21 | 5  | 18 | 20                        |
| 158.I-5324  | .00      | .05.30                   | 180                 | 21 | 5  | 18 | 40                        |
| 158.I-5124  | .00      | .05.30                   | 235                 | 26 | 5  | 22 | 60                        |

This product will be delivered only in pairs.  
Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.

Art.no. 158.I-5\_\_\_\_.\_\_( spring force adjustable)

with integrated spring, with ball bearing



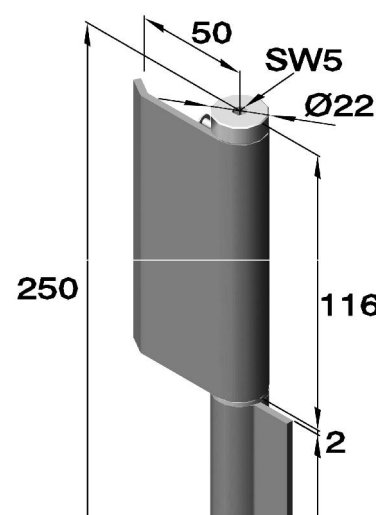
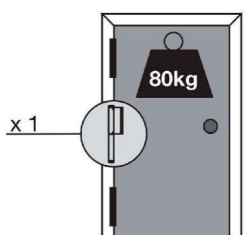
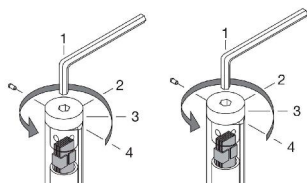
| Article no. |          |                          | Dimensions in mm |    |    |    | Loading capacity<br>in kg |
|-------------|----------|--------------------------|------------------|----|----|----|---------------------------|
| Series      | Material |                          | L                | B  | SW | ØD | g                         |
|             | Raw      |                          |                  |    |    |    |                           |
|             | Steel    | Stainless steel<br>(V2A) |                  |    |    |    |                           |
| 158.I-5334  | .00      | .05.30                   | 180              | 21 | 5  | 18 | 60                        |
| 158.I-5134  | .00      | .05.30                   | 235              | 26 | 5  | 22 | 120                       |

This product will be delivered only in pairs.  
Close doors automatically, integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.

Hinges for fire protection doors

Art.no. 158.I-5224.\_\_( spring force adjustable)

with integrated spring



## Weld on hinge-rolls

| Article no. |          |
|-------------|----------|
| Series      | Material |
|             | Raw      |
|             | Steel    |
| 158.I-5224  | .00      |

This product will be delivered only in pairs.  
Close doors automatically,  
Integrated mechanic is very tough and adjustable.  
Max. aperture angle 180°.



# HoKon

VERSCHLUSSTECHNIK &  
SONDERKONSTRUKTIONEN

Zertifiziert nach DIN EN ISO 9001:2008



Turning lock

Hood catch

Hasps

Locking

Quarter turn fasteners



Management  
System  
ISO 9001:2015  
ISO 14001:2015

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## FOLDER 5 LOCKING DEVICES

FOLDER 1 LATCHES

FOLDER 2 TENSION BANDS

FOLDER 3 HANDLES

FOLDER 4 HINGES

FODLER 5 LOCKING DEVICES.....

QUARTER TURNS.....J-1

„CAMLOC“ .....

LOCKING DEVICES..... H

- LOCKING DEVICES AND MECHANICAL CATCH..... H-1
- HASPS.....H-20
- MAGNETIC CATCHES.....H-25

HOOD CATCHES.....I-10

FOLDER 6 THREADED INSERTS

FOLDER 7 SUNDRIES

GENERAL TERMS AND CONDITIONS.....



## Quarter turns





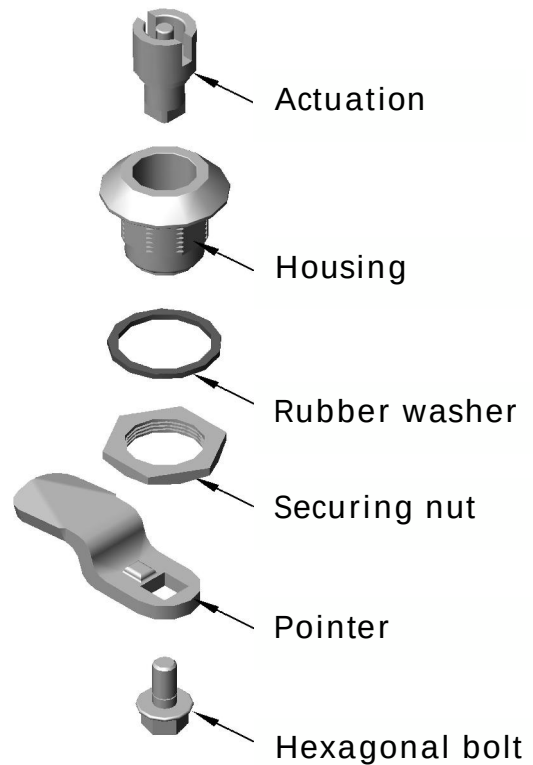
## Quarter turns

Quarter-turns have been inserted in the most varied technical ranges, because of their qualitative characteristics, as for example a certified degree of protection IP 65 according to IEC 529 or DIN 40 050, certified corrosion resistance according to DIN 50 958 and coulometrically certified chromate thickness according to DIN 50 955.

Running controls of the zinc die-cast structure guarantee a homogenous and cavity-free cast iron and with it an unusually high tear-strength of the housing head.

Quarter turns are already being used in the following ranges:

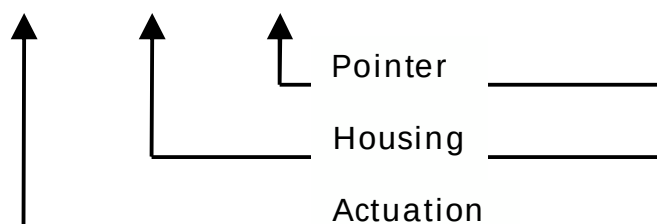
Climate and ventilation technologies, switchyard and electronic control system, measuring and control technology, machine construction (noise insulation, hydraulics, pneumatics, protecting coverings), IT equipment, vehicle construction, construction of tools and apparatuses



|                                 | GD-Zn A14 Cu1 | Abbreviation               |
|---------------------------------|---------------|----------------------------|
| tensile strength                | 28-35         | kp/mm <sup>2</sup>         |
| ultimate strain                 | 2-5           | %                          |
| flexural impact strength        | 7-11          | cmkp/mm <sup>2</sup>       |
| shear strength                  | 25-29         | kp/mm <sup>2</sup>         |
| compression strength            | 58-65         | kp/mm <sup>2</sup>         |
| melting range                   | 380-386       | °C                         |
| heat conductivity               | 0.22-0.24     | cal/cm sec °C              |
| electrical conductivity         | 15-16         | m/Ohm mm <sup>2</sup>      |
| elasticity modulus              | 13000         | kp/mm <sup>2</sup>         |
| linear coefficient of expansion | 0.000027      | pro °C from 20 up to 100°C |

### Ordering example:

Art.no. BDB3 / DG32 / ZH18

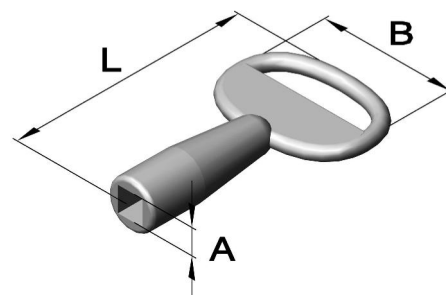




# Quarter turns

## Mini turning lock key

| Article no.                    |          | Dimensions in mm |    |    |
|--------------------------------|----------|------------------|----|----|
| Series                         | material |                  |    |    |
|                                | Zamak    | A                | B  | L  |
| for square operating „BVK“     |          |                  |    |    |
| SVK 6                          | black    | □6,2             | 34 | 55 |
| for triangular operating „BDK“ |          |                  |    |    |
| SDK 6,5                        | black    | Δ6,5             | 34 | 55 |

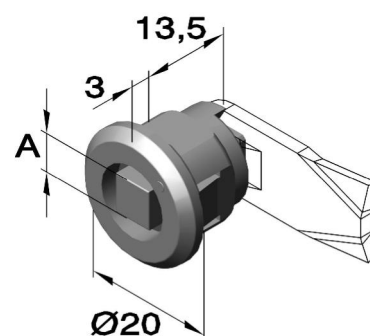
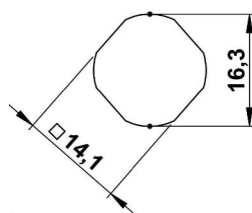


## Clip mini turning lock „CD“

Closing stroke 90°

For sheet thickness 0,8-1,5mm

Off 2000 articles on request.

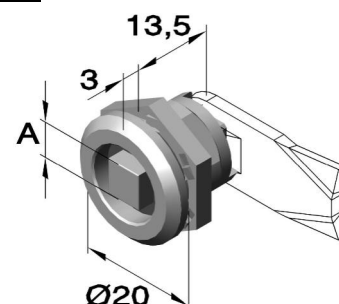
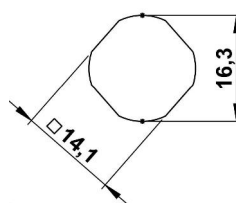


Please complement the art no. for the switch (Art.no. MZH)

| Article no. |           |                | Material | Dimensions in mm |
|-------------|-----------|----------------|----------|------------------|
| Series      | Actuation | Switch         | Black    | A                |
|             |           |                | Plastic  |                  |
| CDG-20      | / BVK 6 / | no. complement | .87      | □6               |
| CDG-20      | / BDK 6 / | no. complement | .87      | Δ6,5             |
| CDG-20      | / BS /    | no. complement | .87      | 1,5              |

## Mini turning lock „DG“

Closing stroke 90°



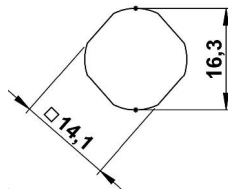
Please complement the art no. for the switch (art.no. MZH)

| Article no. |           |           |                | Material      |              |                 |         | Dimensions in mm |
|-------------|-----------|-----------|----------------|---------------|--------------|-----------------|---------|------------------|
| Series      | Execution | Actuation | Switch         | Zamak         |              | Stainless steel | Plastic | A                |
|             |           |           |                | Chrome plated | Black coated |                 | Black   |                  |
| DG-20       | .01       | / BVK 6 / | no. complement | .53           | .57          | .30             | .87     | □6               |
| DG-20       | .01       | / BDK 6 / | no. complement | .53           | .57          | .30             |         | Δ6,5             |
| DG-20       | .01       | / BS      | no. complement | .53           | .57          | .30             | .87     | Δ6,5             |

## Quarter turns

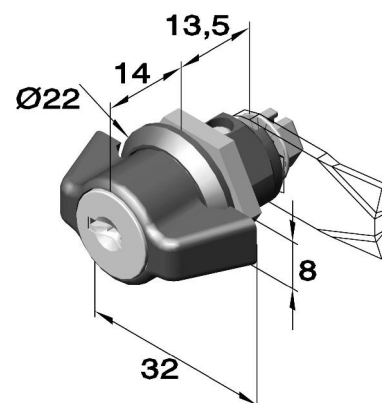
### Mini wing turning lock „FD“

Closing stroke 90°



Please complement the art no. for the switch (Art.no. MZH)

| Article no. |           |               |       | Closure                                      |
|-------------|-----------|---------------|-------|----------------------------------------------|
| Series      | Execution | Material      |       |                                              |
|             |           | Zamak         |       |                                              |
|             |           | Chrome plated | Black |                                              |
| FD-32       | - 00      | .53           | .57   | without key                                  |
| FD-32       | - 01      | .53           | .57   | simultaneous locking<br>(with resemble keys) |
| FD-32       | - 02      | .53           | .57   | different locking<br>(with different keys)   |

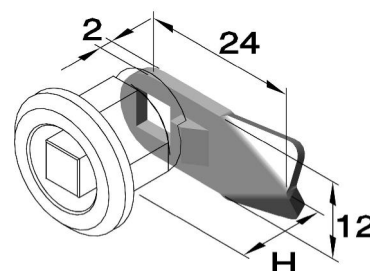


### Mini switch „MZH“

closing stroke 90°

Please complement the art no. for the switch (Art.no. MZH)

| Article no. |             | Dimensions in mm |
|-------------|-------------|------------------|
| Series      | Material    | H                |
|             | Steel       |                  |
|             | Zinc plated |                  |
| MZH 7,5-24  | .04         | 7,5              |
| MZH 13,5-24 | .04         | 13,5             |
| MZH 19,5-24 | .04         | 19,5             |

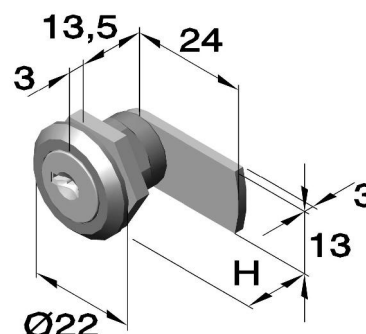




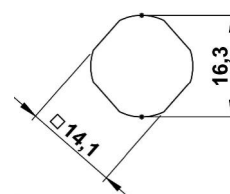
## Quarter turns

### Mini turning lock lockable „DA“

Closing stroke 90°



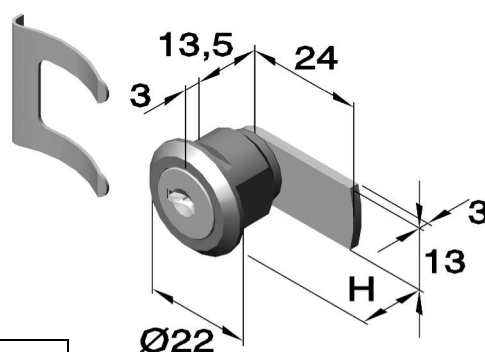
| Article no. |           |                        |                  | Dimensions<br>in mm | Closure                                      |
|-------------|-----------|------------------------|------------------|---------------------|----------------------------------------------|
| Series      | Execution | Material               |                  |                     |                                              |
|             |           | Chrome plated<br>Zamak | Black<br>Plastic | H                   |                                              |
| DA 22       | -01       | .53                    | .87              | 7,5                 |                                              |
| DA 22       | -02       | .53                    | .87              | 13,5                | simultaneous locking<br>(with resemble keys) |
| DA 22       | -03       | .53                    | .87              | 19,5                | simultaneous locking<br>(with resemble keys) |
| DA 22       | - 04      | .53                    | .87              | 7,5                 | different locking<br>(with different keys)   |
| DA 22       | - 05      | .53                    | .87              | 13,5                | different locking<br>(with different keys)   |
| DA 22       | - 06      | .53                    | .87              | 19,5                | different locking<br>(with different keys)   |



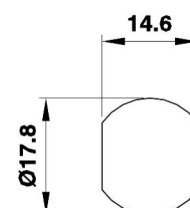
### Mini turning lock lockable „DA 22F“

Closing stroke 90°

Off 100 articles on request.



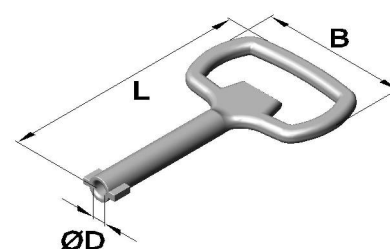
| Article no. |           |               | Dimensions<br>in mm | Closure                                       |
|-------------|-----------|---------------|---------------------|-----------------------------------------------|
| Series      | Execution | Material      |                     |                                               |
|             |           | Chrome plated | H                   |                                               |
|             |           | Zamak         |                     |                                               |
| DA 22F      | -01       | .53           | 7,5                 | simultaneous locking<br>(with resemble keys)  |
| DA 22F      | -02       | .53           | 13,5                | simultaneous locking<br>(with resemble keys)  |
| DA 22F      | -03       | .53           | 19,5                | simultaneous locking<br>(with resemble keys)) |
| DA 22F      | - 04      | .53           | 7,5                 | differnt locking<br>(with different keys)     |
| DA 22F      | - 05      | .53           | 13,5                | different locking<br>(with different keys)    |
| DA 22F      | - 06      | .53           | 19,5                | differnt locking<br>(with different keys)     |



# Quarter turns

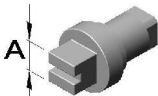
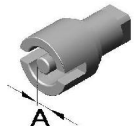
## Quarter turn key

| Article no.                    |          | Dimensions<br>in mm |    |
|--------------------------------|----------|---------------------|----|
| Series                         | Material |                     |    |
|                                | Black    | D                   | L  |
| for double bit operating „BDB“ |          |                     |    |
| SDB 3                          | Zamak    | Ø3,2                | 90 |
| SDB 5                          | Zamak    | Ø5,2                | 90 |
| for triangular operating „BDK“ |          |                     |    |
| SDK 7                          | Zamak    | Δ7,2                | 78 |
| SDK 8                          | Zamak    | Δ8,2                | 78 |
| for square operating „BVK“     |          |                     |    |
| SVK 7                          | Zamak    | □7,2                | 78 |
| SVK 8                          | Zamak    | □8,2                | 78 |

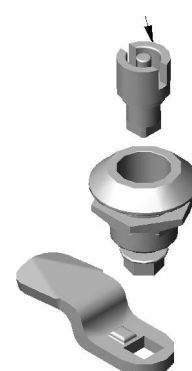


## Actuations

Stainless steel (V4A) raw on request

| Article no.            |                  |       |    |                    | Dimensions<br>in mm | Actuation                                                                                              |
|------------------------|------------------|-------|----|--------------------|---------------------|--------------------------------------------------------------------------------------------------------|
| Series                 | material         |       |    |                    |                     |                                                                                                        |
|                        | Chrome<br>plated | Black |    |                    | A                   |                                                                                                        |
|                        |                  | Zamak |    | Stainless<br>steel | plastic             |                                                                                                        |
| Actuation „Square“     |                  |       |    |                    |                     |                                                                                                        |
| BVK 7                  | Chrome plated    | .57   | VA | KST                | □7                  | <br>„S“ with port |
| BVK 8                  | Chrome plated    | .57   | VA | KST                | □8                  |                                                                                                        |
| BVK 8 S                | Chrome plated    | -     | VA | -                  | □8                  |                                                                                                        |
| Actuation „Triangular“ |                  |       |    |                    |                     |                                                                                                        |
| BDK 7                  | Chrome plated    | .57   | VA | -                  | Δ7                  |                   |
| BDK 8                  | Chrome plated    | .57   | VA | KST                | Δ8                  |                                                                                                        |
| Actuation „Double bit“ |                  |       |    |                    |                     |                                                                                                        |
| BDB 3                  | Chrome plated    | .57   | VA | KST                | Ø3                  |                   |
| BDB 5                  | verchromt        | .57   | VA | KST                | Ø5                  |                                                                                                        |

actuation



## Quarter turns

### Housing „DG“

Strong execution, closing stroke 90°

Material and surfaces:

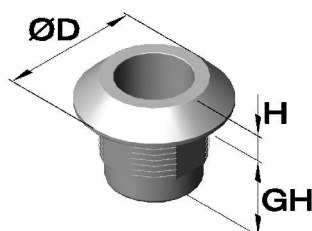
Zinc die cast (Zamak) chrome plated

Zinc die cast (Zamak) black coated

Stainless steel (V2A) raw

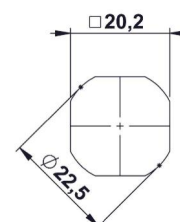
Stainless steel (V4A) raw on request

Plastic (KST) black



Please insert the Art no. for the operating mechanism  
and for the latch.

| Article no. |               |       |                 |         | Dimensions<br>in mm |    |   |
|-------------|---------------|-------|-----------------|---------|---------------------|----|---|
| Series      | Material      |       |                 |         | Ø D                 | GH | H |
|             | Chrome plated | Black | Raw             | Black   |                     |    |   |
|             | Zamak         | Zamak | Stainless steel | Plastic |                     |    |   |
| DG 28-4     | Chrome plated | .57   | VA              | KST     | 28                  | 18 | 4 |
| DG 30       | Chrome plated | -     | -               | -       | 30                  | 18 | 4 |
| DG 32       | Chrome plated | .57   | VA              | KST     | 32                  | 18 | 6 |



extended

### Housing „DG“

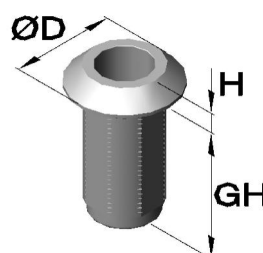
Strong execution, closing stroke 90°

Material and surfaces:

Zinc die cast (Zamak) chrome plated

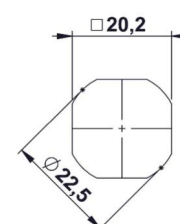
Stainless steel (V2A) raw

Stainless steel (V4A) raw on request



Please insert the Art no. for the operating mechanism  
and for the latch.

| Article no. |               |                 | Dimensions<br>in mm |    |   |
|-------------|---------------|-----------------|---------------------|----|---|
| Series      | Material      |                 | Ø D                 | GH | H |
|             | Chrome plated | Raw             |                     |    |   |
|             | Zamak         | Stainless steel |                     |    |   |
| DG 32-30/1  | Chrome plated | VA              | 32                  | 30 | 6 |
| DG 32-36/1  | Chrome plated | VA              | 32                  | 36 | 6 |
| DG 32-40/1  | Chrome plated | VA              | 32                  | 40 | 6 |
| DG 32-50/1  | Chrome plated | VA              | 32                  | 50 | 6 |
| DG 32-60/1  | Chrome plated | VA              | 32                  | 60 | 6 |



## Quarter turns

### Quarter turn lockable „DA“

Strong execution, closing stroke 90°

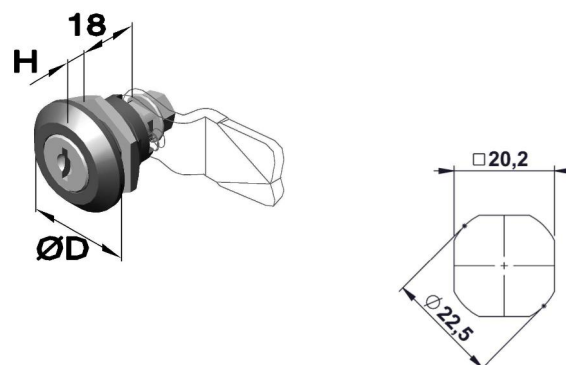
Material and surfaces:

Zinc die cast (Zamak) chrome plated

Stainless steel seawater resistant (V4A) raw

Zinc die cast (Zamak) black coated

Plastic (KST) black



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |               |                 |        |         | Dimensions<br>in mm |   | Closure                                      |
|-------------|-----------|---------------|-----------------|--------|---------|---------------------|---|----------------------------------------------|
| Series      | Execution | Material      |                 |        |         | Ø D                 | H |                                              |
|             |           | Chrome plated | Raw             | Coated | Black   |                     |   |                                              |
|             |           | Zamak         | Stainless steel | Zamak  | Plastic |                     |   |                                              |
| DA 28       | -01       | Chrome plated | .35             | .57    | KST     | 28                  | 6 | simultaneous locking<br>(with resemble keys) |
| DA 32       | -01       | Chrome plated | -               | .57    | KST     | 32                  | 6 | simultaneous locking<br>(with resemble keys) |
| DA 28       | -02       | Chrome plated | .35             | .57    | KST     | 28                  | 6 | different locks<br>(with different keys)     |
| DA 32       | -02       | Chrome plated | -               | .57    | KST     | 32                  | 6 | different locks<br>(with different keys)     |

### Wing handle quarter turn „FG“

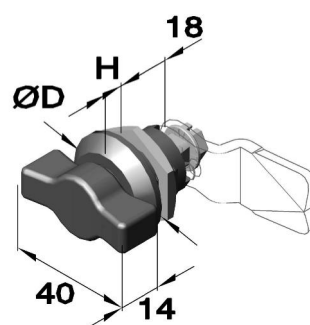
Strong execution, closing stroke 90°

Material and surfaces:

Zinc die cast (Zamak) chrome plated

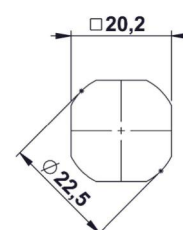
Zinc die cast (Zamak) black coated

Plastic (KST) black



Please insert the art no. for the latch (Art.no. ZH)

|        |           | Article no.    |                  | Dimensions in mm |   |
|--------|-----------|----------------|------------------|------------------|---|
| Series | Execution | Material       |                  | Ø D              | H |
|        |           | Black<br>Zamak | Black<br>Plastic |                  |   |
| FG /   | DG 28-4   | .57            | .87              | 28               | 4 |
| FG /   | DG 32     | .57            | .87              | 32               | 6 |



## Quarter turns

### Wing quarter turn „FD“

Strong execution, closing distance 90°

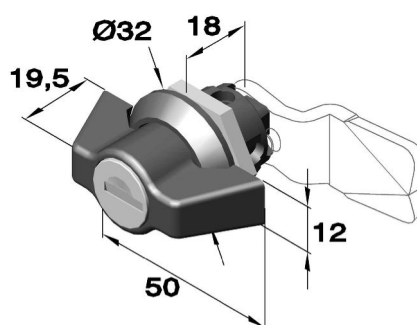
Material and surfaces:

Zinc die cast (Zamak) chrome plated

Zinc die cast (Zamak) black coated

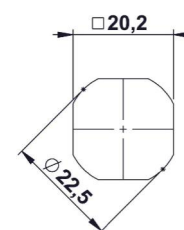
Stainless steel seawater resistant (V4A) raw

Plastic (KST) black



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |      | Material      |       |                 |         | Closure                                      |
|-------------|------|---------------|-------|-----------------|---------|----------------------------------------------|
|             |      | Chrome plated | Black | Raw             | Black   |                                              |
|             |      | Zamak         | Zamak | Stainless steel | Plastic |                                              |
| FD-50       | - 00 | .53           | .57   | .30             | .87     | without lock                                 |
| FD-50       | - 01 | .53           | .57   | .30             | .87     | simultaneous locking<br>(with resemble keys) |
| FD-50       | - 02 | .53           | .57   | .30             | .87     | different locks<br>(with different keys)     |



### Wing quarter turn for padlock „FDV-50“

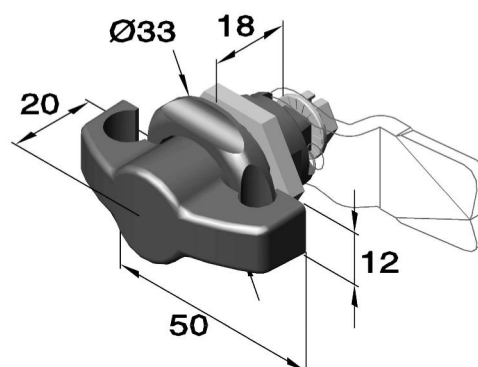
Strong execution, closing stroke 90°

For clamp Ø4,5-Ø10mm

Material and surfaces:

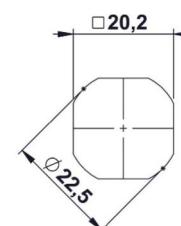
Zinc die cast (Zamak) black powdered

Stainless steel seawater resistant (V4A) raw



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |          |
|-------------|----------|
| Series      | Material |
|             | Raw      |
|             | Black    |
| FDV-50      | .35      |
|             | .57      |



## Quarter turns

### T-handle quarter turn „DK-60

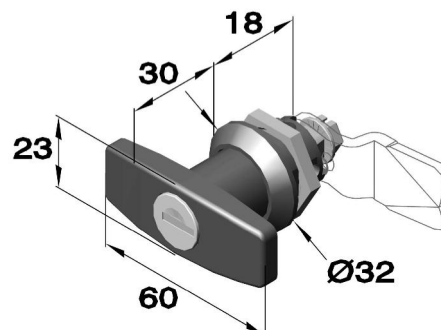
Strong execution, closing stroke 90°

Material and surfaces:

Plastic (KST) black-(handle)

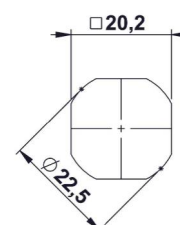
Zinc die cast (Zamak) black powdered-(housing)

Different lock off 100 articles



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |          | Closure                                      |
|-------------|-----------|----------|----------------------------------------------|
| Series      | Execution | Material |                                              |
|             |           | Black    |                                              |
|             |           | Zamak    |                                              |
| DK-60       | -00       | .57      | without lock                                 |
| DK-60       | -01       | .57      | simultaneous locking<br>(with resemble keys) |
| DK-60       | -02       | .57      | different locks<br>(with different keys)     |



### Quarter turn-clamp handle „DK-80“

Strong execution, closing stroke 90°

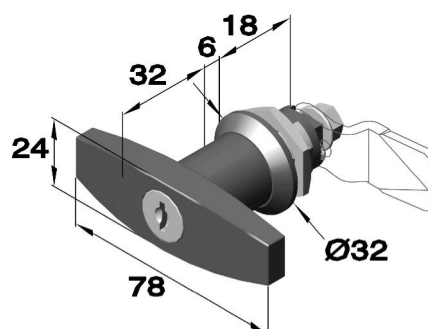
Material and surfaces:

Zinc die cast (Zamak) chrome plated

Zinc die cast (Zamak) black coated

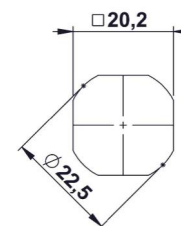
Stainless steel seawater resistant (V4A) raw

Plastic (KST) black



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |               |       |                 |         | Closure                                      |
|-------------|-----------|---------------|-------|-----------------|---------|----------------------------------------------|
| Series      | Execution | Material      |       |                 |         |                                              |
|             |           | Chrome plated | Black | Raw             | Black   |                                              |
|             |           | Zamak         | Zamak | Stainless steel | Plastic |                                              |
| DK-80       | -00       | Chrome plated | .57   | VA              | Black   | without lock                                 |
| DK-80       | -01       | Chrome plated | .57   | VA              | Black   | simultaneous locking<br>(with resemble keys) |
| DK-80       | -02       | Chrome plated | .57   | VA              | Black   | different locks<br>(with different keys)     |





## Quarter turns

### Quarter turn-lever handle „DH“

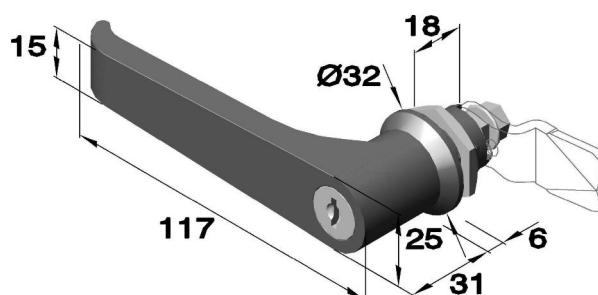
Strong execution, closing stroke 90°

Material and surfaces:

Zinc die cast (Zamak) chrome plated

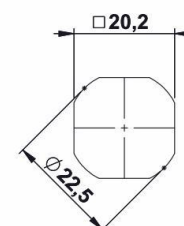
Stainless steel seawater resistant (V4A) raw

Plastic (KST) black



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |               |                 |         | Closure                                      |
|-------------|-----------|---------------|-----------------|---------|----------------------------------------------|
| Series      | Execution | Material      |                 |         |                                              |
|             |           | Chrome plated | Raw             | Black   |                                              |
|             |           | Zamak         | Stainless steel | Plastic |                                              |
| DH-12       | -00       | Chrome plated | VA              | Black   | without key                                  |
| DH-12       | -01       | Chrome plated | VA              | Black   | simultaneous locking<br>(with resemble keys) |
| DH-12       | -02       | Chrome plated | VA              | Black   | different locks<br>(with different keys)     |



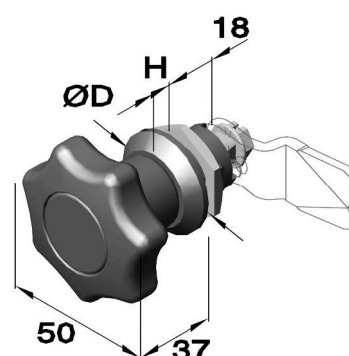
### Star handle- quarter turn „SG“

Strong execution, closing stroke 90°

Material and surfaces:

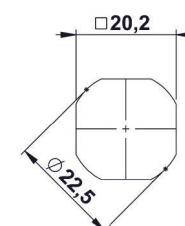
Plastic (KST) black-(handle)

Zinc die cast (Zamak) black powdered-(housing)



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |          | Dimensions<br>in mm |   |
|-------------|-----------|----------|---------------------|---|
| Series      | Execution | Material |                     |   |
|             |           | Black    | Ø D                 | H |
| Plastic     |           |          |                     |   |
| SG /        | DG 28-4   | .87      | 28                  | 4 |
| SG /        | DG 32     | .87      | 32                  | 6 |

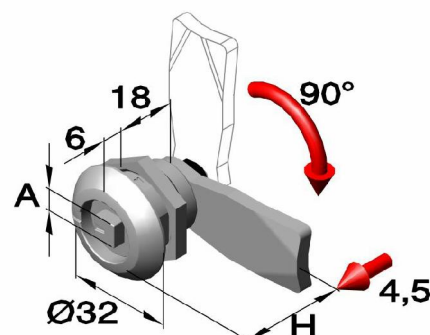


## Quarter turns

### Compression quarter turn „KD-18“ with spring and composition, closing stroke 90°

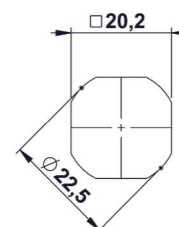
Compression travel 4,5mm

Material and surfaces:  
Zinc die cast (Zamak) black powdered



Please insert the art no. for the latch without tappet (Art.no. ZH)

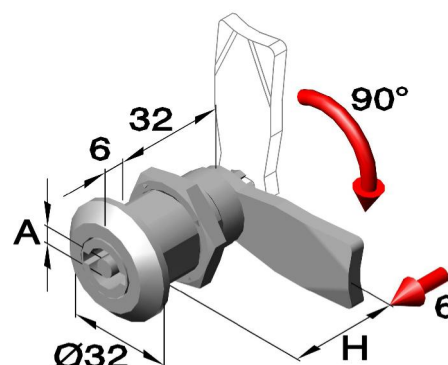
| Article no. |           |                | Material       | Dimensions<br>in mm |
|-------------|-----------|----------------|----------------|---------------------|
| Series      | Actuation | Switch         | Black<br>Zamak |                     |
| KD-18       | / BDB 3 / | no. complement | .57            | Ø3                  |
| KD-18       | / BDB 5 / | no. complement | .57            | Ø5                  |
| KD-18       | / BDK 8 / | no. complement | .57            | Δ8                  |
| KD-18       | / BVK 8/  | no. complement | .57            | □8                  |



### Compression quarter turn „KD-32“ with spring and composition, closing stroke 90°

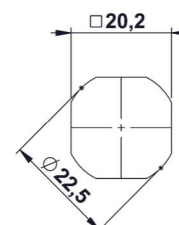
Compression travel 6mm

Material and surfaces:  
Zinc die cast (Zamak) black powdered  
Stainless steel seawater resistant (V4A) raw



Please insert the art no. for the latch (Art.no. ZH)

| Article no. |           |                | Material               |                | Dimensions<br>in mm |
|-------------|-----------|----------------|------------------------|----------------|---------------------|
| Series      | Actuation | Switch         | Raw<br>Stainless steel | Black<br>Zamak |                     |
| KD-32       | / BDB 3 / | no. complement | .30                    | .57            | Ø3                  |
| KD-32       | / BDB 5 / | no. complement | .30                    | .57            | Ø5                  |
| KD-32       | / BDK 7 / | no. complement | -                      | .57            | Δ7                  |
| KD-32       | / BDK 8 / | no. complement | -                      | .57            | Δ8                  |
| KD-32       | / BVK 7/  | no. complement | -                      | .57            | □7                  |
| KD-32       | / BVK 8/  | no. complement | .30                    | .57            | □8                  |

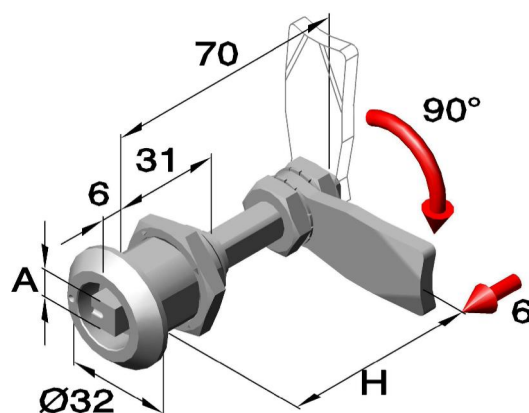


## Quarter turns

### Compression quarter turn „KD-70“ with spring and composition, closing stroke 90°

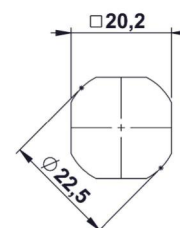
Compression travel 6mm

Material and surfaces:  
Zinc die cast (Zamak) black powdered



Please insert the art no. for the latch without tappet (Art.no. ZH)

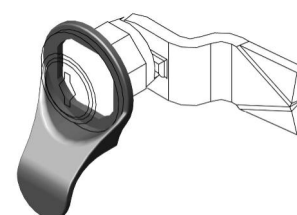
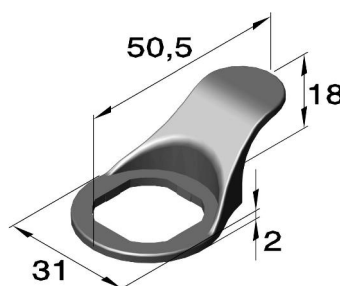
| Article no. |           |                | Material       | Dimensions<br>in mm |
|-------------|-----------|----------------|----------------|---------------------|
| Series      | Actuation | Switch         | Black<br>Zamak |                     |
| KD-70       | / BDB 3 / | no. complement | .57            | Ø3                  |
| KD-70       | / BDB 5 / | no. complement | .57            | Ø5                  |
| KD-70       | / BDK 7 / | no. complement | .57            | Δ7                  |
| KD-70       | / BDK 8 / | no. complement | .57            | Δ8                  |
| KD-70       | / BVK 7 / | no. complement | .57            | □7                  |
| KD-70       | / BVK 8 / | no. complement | .57            | □8                  |



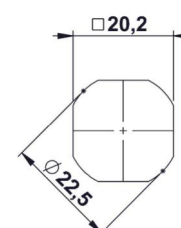
### Finger grip „FP“ for quarter turns

Material and surfaces:  
Plastic (KST) black

By using the finger grip  
the H-dimension reduce of 2mm.



| Article no. |                  |
|-------------|------------------|
| Series      | Material         |
|             | Black<br>Plastic |
| FP-28       | .87              |
| FP-32       | .87              |



## Quarter turns

### Switch „ZH“ closing stroke 90°

Strong execution

Material and surfaces:

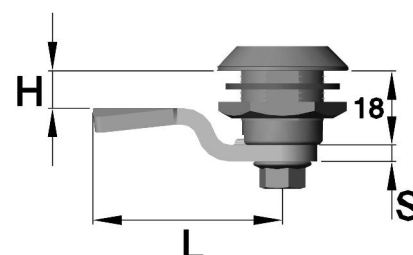
Steel zinc plated

Stainless steel (V2A) raw

Stainless steel seawater resistant (V4A) raw (off 500 articles on request)

Please insert the art no. for the actuation and the housing.

| Article no. |          |                 | Dimensions in mm |    |    |   |
|-------------|----------|-----------------|------------------|----|----|---|
| Series      | Material |                 | H                | L  | B  | S |
|             | Steel    | Stainless steel |                  |    |    |   |
| ZH 4-45     | verzinkt | -               | 3                | 45 | 19 | 4 |
| ZH 6-45     | verzinkt | VA              | 6                | 45 | 19 | 4 |
| ZH 8-45     | verzinkt | -               | 8                | 45 | 19 | 4 |
| ZH 10-45    | verzinkt | VA              | 10               | 45 | 19 | 4 |
| ZH 13-45    | verzinkt | -               | 13               | 45 | 19 | 4 |
| ZH 14-45    | verzinkt | VA              | 14               | 45 | 19 | 4 |
| ZH 16-45    | verzinkt | -               | 16               | 45 | 19 | 4 |
| ZH 18-35    | verzinkt | -               | 18               | 34 | 19 | 4 |
| ZH 18-45    | verzinkt | VA              | 18               | 45 | 19 | 4 |
| ZH 20-35    | verzinkt | -               | 20               | 35 | 19 | 4 |
| ZH 20-45    | verzinkt | VA              | 20               | 45 | 19 | 4 |
| ZH 22-35    | verzinkt | -               | 22               | 35 | 19 | 4 |
| ZH 22-45    | verzinkt | VA              | 22               | 45 | 19 | 4 |
| ZH 24-45    | verzinkt | VA              | 24               | 45 | 19 | 4 |
| ZH 26-45    | verzinkt | VA              | 26               | 45 | 19 | 4 |
| ZH 28-35    | verzinkt | -               | 28               | 35 | 19 | 4 |
| ZH 28-45    | verzinkt | VA              | 28               | 45 | 19 | 4 |
| ZH 30-45    | verzinkt | -               | 30               | 45 | 19 | 4 |
| ZH 32-45    | verzinkt | -               | 32               | 45 | 19 | 4 |
| ZH 34-45    | verzinkt | -               | 34               | 45 | 19 | 4 |
| ZH 35-45    | verzinkt | -               | 35               | 45 | 19 | 4 |
| ZH 36-45    | verzinkt | -               | 36               | 45 | 19 | 4 |
| ZH 38-45    | verzinkt | -               | 38               | 45 | 19 | 4 |
| ZH 40-45    | verzinkt | -               | 40               | 45 | 19 | 4 |
| ZH 42-45    | verzinkt | -               | 42               | 45 | 19 | 4 |
| ZH 44-45    | verzinkt | -               | 44               | 45 | 19 | 4 |
| ZH 45-45    | verzinkt | -               | 45               | 45 | 19 | 4 |
| ZH 47-45    | verzinkt | -               | 45               | 45 | 19 | 4 |
| ZH 50-45    | verzinkt | -               | 50               | 45 | 19 | 4 |



## Quarter turns

### Plastic switch „KTZ“ closing stroke 90°

Strong execution

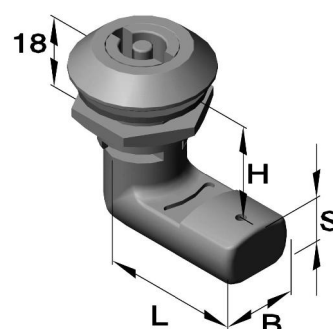
Material and surfaces:

Plastic (KST) black



Please insert the art no. for the actuation and the housing.

| Article no. |          | Dimensions in mm |    |    |    |
|-------------|----------|------------------|----|----|----|
| Series      | Material | H                | L  | B  | S  |
|             | Black    |                  |    |    |    |
|             | Plastic  |                  |    |    |    |
| KTZ 18-35   | .87      | 18               | 35 | 19 | 12 |
| KTZ 20-35   | .87      | 20               | 35 | 19 | 12 |
| KTZ 22-35   | .87      | 22               | 35 | 19 | 12 |
| KTZ 24-35   | .87      | 24               | 35 | 19 | 12 |
| KTZ 28-35   | .87      | 28               | 35 | 19 | 12 |

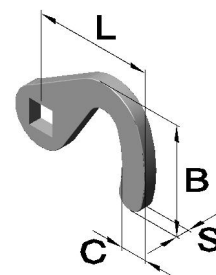


### Hook tongue „HZ“

Material and surfaces:

Steel zinc plated

| Article no. |           |             | Dimensions in mm |    |   |   |
|-------------|-----------|-------------|------------------|----|---|---|
| Series      | Execution | Material    | L                | B  | C | S |
|             |           | Steel       |                  |    |   |   |
| HZ          | 18-36     | Zinc plated | 36               | 33 | 8 | 4 |



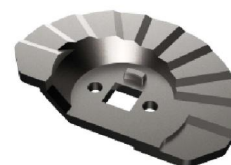
## Quarter turns

### Quarter turn cone pulley „DS“ closing stroke 180°

Gradually bolt von 0-10 mm

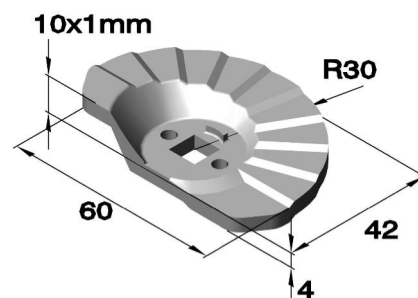
Material and surfaces:

Zinc die cast (Zamak) zinc plated



Please insert the art no. for the actuation and the housing.

| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zamak       |
| DS-60       | .01       | Zinc plated |
|             |           | .04         |



### Locking handle „DV“

Spagnolet extension, with gradually bolt von 17-65 mm

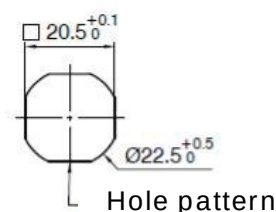
Closing stroke 180°

Please insert the art no. for the actuation and the housing

Material and surfaces:

Steel zinc plated

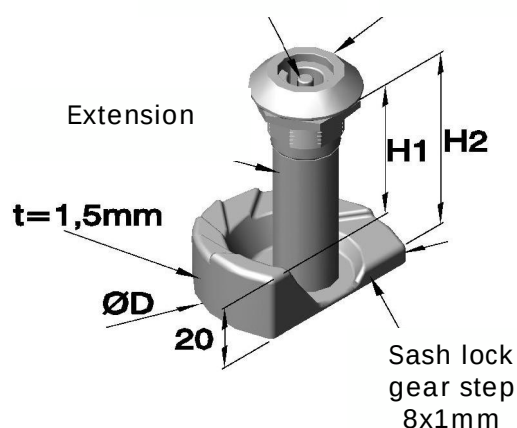
Stainless steel raw



Hole pattern

Actuation

Housing



| Article no. |           |             | Dimensions in mm |    |     |
|-------------|-----------|-------------|------------------|----|-----|
| Series      | Execution | Material    | H1               | H2 | Ø D |
|             |           | Steel       |                  |    |     |
| DV          | 17-25     | Zinc plated | 17               | 25 | 60  |
| DV          | 22-30     | Zinc plated | 22               | 30 | 60  |
| DV          | 27-35     | Zinc plated | 27               | 35 | 60  |
| DV          | 32-40     | Zinc plated | 32               | 40 | 60  |
| DV          | 37-45     | Zinc plated | 37               | 45 | 60  |
| DV          | 42-50     | Zinc plated | 42               | 50 | 60  |
| DV          | 47-55     | Zinc plated | 47               | 55 | 60  |
| DV          | 52-60     | Zinc plated | 52               | 60 | 60  |
| DV          | 57-65     | Zinc plated | 57               | 65 | 60  |





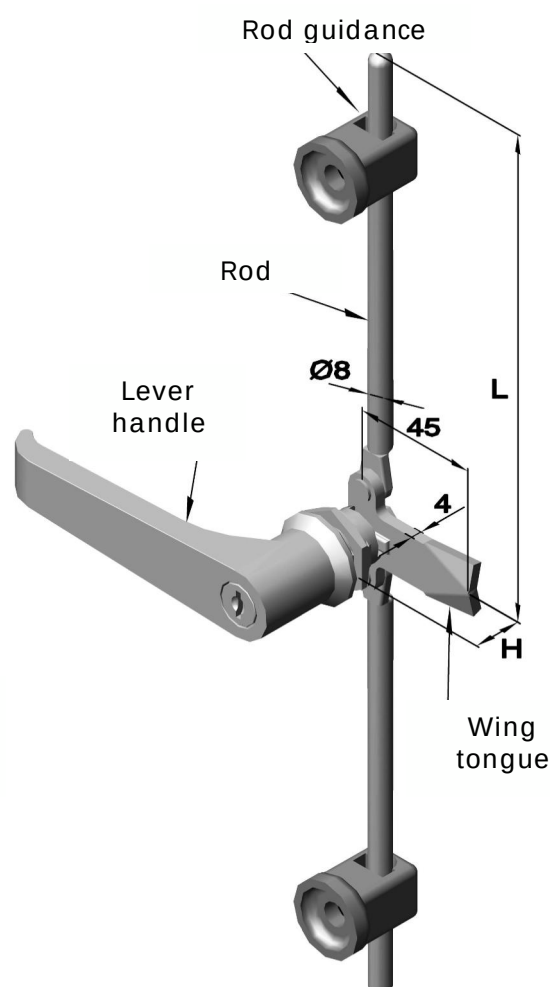
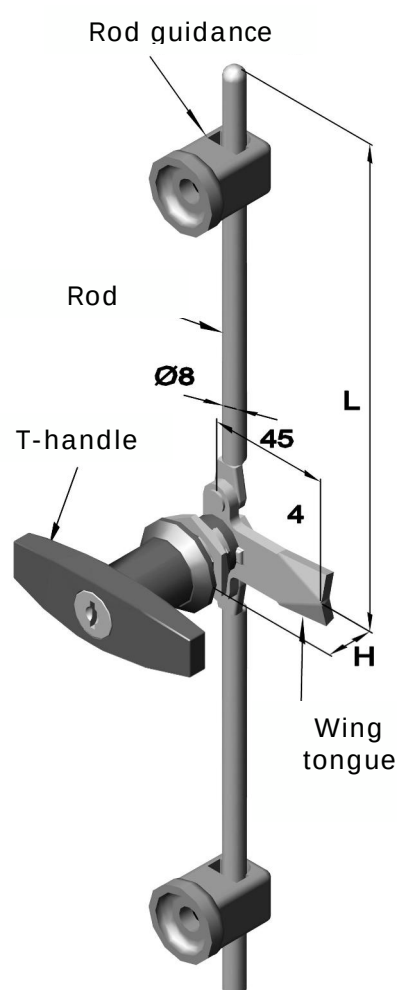
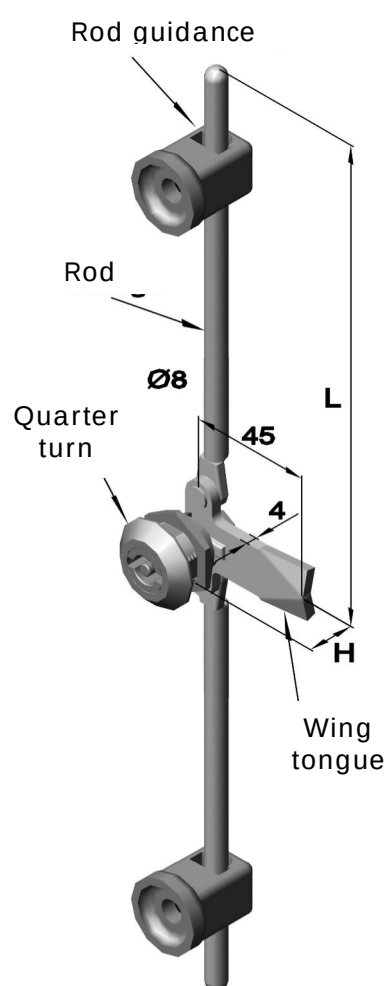
## Quarter turns

Combinatory examples:

With quarter turn: "DG"

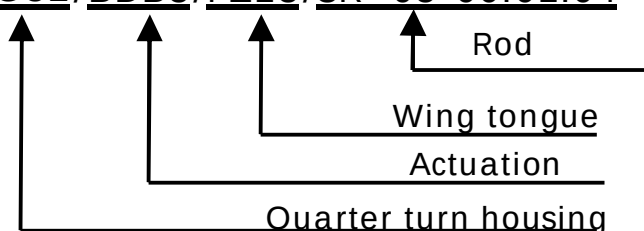
With clamp handle: "DK"

With lever handle: "DH"



Ordering example:

Art. no. DG32/BDB3/FZ18/SR- 05-00.01.04



## Quarter turns

### Wing tongue „FZ“ for quarter turn

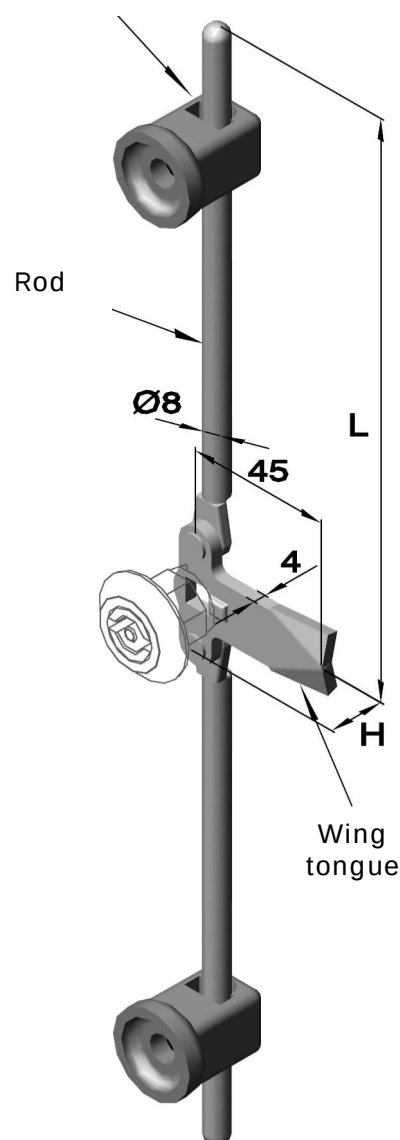
Material and surfaces:

Steel zinc plated

Stainless steel (V2A) raw

| Article no. |             |                 | Dimensions in mm |
|-------------|-------------|-----------------|------------------|
| Series      | Material    |                 | H                |
|             | Zinc plated |                 |                  |
|             | Steel       | Stainless steel |                  |
| FZ 6        | Zinc plated |                 | 6                |
| FZ 10       | Zinc plated |                 | 10               |
| FZ 18       | Zinc plated |                 | 18               |
| FZ 20       | Zinc plated |                 | 20               |
| FZ 22       | Zinc plated | VA              | 22               |
| FZ 24       | Zinc plated |                 | 24               |
| FZ 25       | Zinc plated |                 | 25               |
| FZ 26       | Zinc plated |                 | 26               |
| FZ 28       | Zinc plated | VA              | 28               |
| FZ 30       | Zinc plated |                 | 30               |
| FZ 32       | Zinc plated |                 | 32               |
| FZ 36       | Zinc plated |                 | 36               |
| FZ 38       | Zinc plated |                 | 38               |

Rod guidance

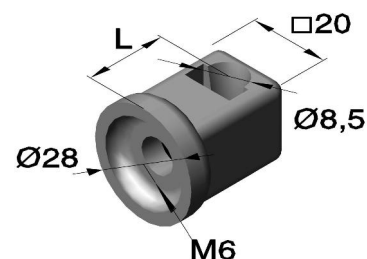


### Rod guide „SFS“ rod (SR)

Material and surfaces:

Plastic (KST) black

| Article no. |          | Dimensions in mm |                   |
|-------------|----------|------------------|-------------------|
| Series      | Material | L                | for welding studs |
|             | Plastic  |                  |                   |
| SFS 24      | KST      | 24               | M6 x 16           |
| SFS 30      | KST      | 30               | M6 x 20           |

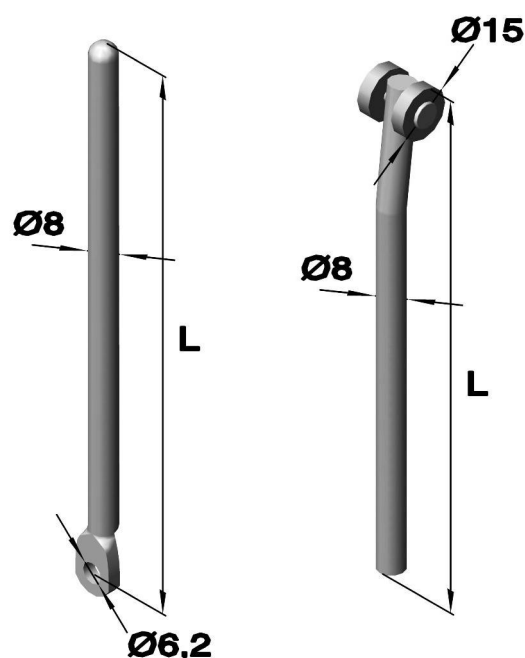


Rod round „SR“

| Article no. |           |     |             | Dimensions<br>in mm |
|-------------|-----------|-----|-------------|---------------------|
| Series      | Execution |     | Material    | L                   |
|             |           |     | Zinc plated |                     |
|             |           |     | Steel       |                     |
| SR 04-00    | .01       | -   | .04         | 400                 |
| SR 05-00    | .01       | -   | .04         | 500                 |
| SR 06-00    | .01       | .03 | .04         | 600                 |
| SR 07-00    | .01       | .03 | .04         | 700                 |
| SR 08-00    | .01       | .03 | .04         | 800                 |
| SR 09-00    | .01       | .03 | .04         | 900                 |
| SR 10-00    | .01       | .03 | .04         | 1000                |
| SR 11-00    | .01       | .03 | .04         | 1100                |
| SR 12-00    | .01       | .03 | .04         | 1200                |

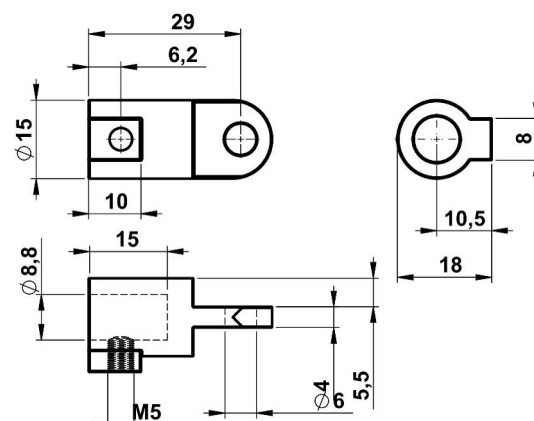
| Article no. |           |                 | Dimensions<br>in mm |
|-------------|-----------|-----------------|---------------------|
| Series      | Execution | Material        | L                   |
|             |           | Raw             |                     |
|             |           | Stainless steel |                     |
| SR 06-00    | .03       | .30             | 600                 |
| SR 07-00    | .03       | .30             | 700                 |
| SR 08-00    | .03       | .30             | 800                 |
| SR 09-00    | .03       | .30             | 900                 |
| SR 10-00    | .03       | .30             | 1000                |
| SR 11-00    | .03       | .30             | 1100                |

Execution .03



### Adapter round (for rod „SR“ execution .03)

| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| AR-01       | 04          | 30              |



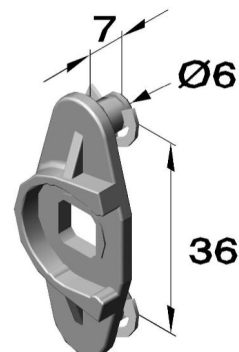
## Quarter turns

### Pinion drive „SA“ for „ZH“ tongue

Material and surfaces:

Zinc die cast (Zamak) zinc plated

Stainless steel seawater resistant (V4A) raw

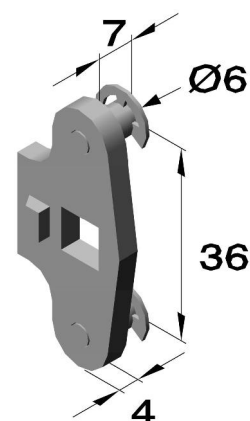


| Article no. |           |             |                 |
|-------------|-----------|-------------|-----------------|
| Series      | Execution | Material    |                 |
|             |           | Zamak       | Stainless steel |
|             |           | Zinc plated | Raw             |
| SA          | -01       | .54         | .30             |

### Pinion drive „SA“ without tongue

Material and surfaces:

Steel zinc plated



| Article no. |           |             |       |
|-------------|-----------|-------------|-------|
| Series      | Execution | Material    |       |
|             |           | Zinc plated | Steel |
|             |           |             |       |
| SA          | -02       | .04         |       |

## Quarter turns

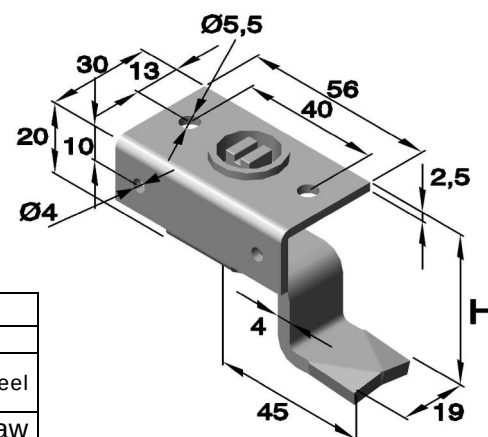
### Weld turn „AD40 S“

Material and surfaces:

Actuation: Zamak

Weld-turn housing : Steel zinc plated  
Steel raw

Please insert the art no. for the latch (Art no. ZH)



| article no. |            |      |        |      |            |      |             |       |
|-------------|------------|------|--------|------|------------|------|-------------|-------|
| Series      | Actuation  |      |        |      |            |      | Material    |       |
|             | Square cut |      | Saddle |      | Double bit |      | Steel       | Steel |
|             | □7mm       | □8mm | Δ7     | Δ8   | Ø3         | Ø5   |             |       |
| AD40S       | BVK7       | BVK8 | BDK7   | BDK8 | BDB3       | BDB5 | Zinc plated | Raw   |

### Pointer „AZ“ for weld turn „AD“, closing distance 90°

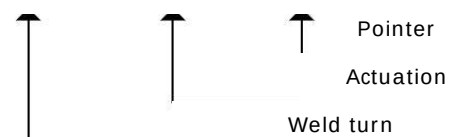
Material and surfaces:

Steel zinc plated

| Article no. |             | Dimensions in mm |  |
|-------------|-------------|------------------|--|
| Series      | Material    | H                |  |
|             | Steel       |                  |  |
| AZ 6        | Zinc plated | 6                |  |
| AZ 8        | Zinc plated | 8                |  |
| AZ 10       | Zinc plated | 10               |  |
| AZ 12       | Zinc plated | 12               |  |
| AZ 15       | Zinc plated | 14               |  |
| AZ 16       | Zinc plated | 16               |  |
| AZ 18       | Zinc plated | 18               |  |
| AZ 20       | Zinc plated | 20               |  |
| AZ 22       | Zinc plated | 22               |  |
| AZ 24       | Zinc plated | 24               |  |
| AZ 26       | Zinc plated | 26               |  |
| AZ 27       | Zinc plated | 27               |  |
| AZ 28       | Zinc plated | 28               |  |
| AZ 30       | Zinc plated | 30               |  |
| AZ 32       | Zinc plated | 32               |  |
| AZ 34       | Zinc plated | 34               |  |
| AZ 36       | Zinc plated | 36               |  |
| AZ 37       | Zinc plated | 37               |  |
| AZ 38       | Zinc plated | 38               |  |
| AZ 40       | Zinc plated | 40               |  |
| AZ 42       | Zinc plated | 42               |  |
| AZ 44       | Zinc plated | 44               |  |
| AZ 46       | Zinc plated | 46               |  |
| AZ 49       | Zinc plated | 49               |  |
| AZ 52       | Zinc plated | 52               |  |

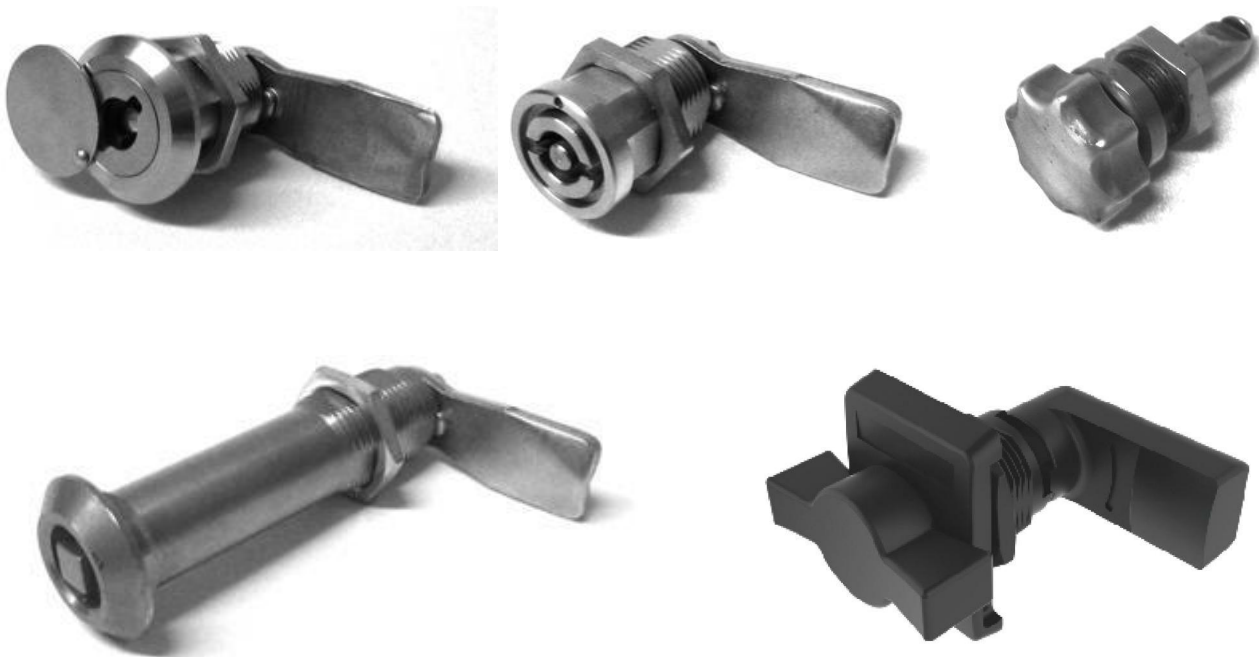
Ordering example:

Art.no. AD40 / BDB3 / AZ18



# Quarter turns

## Quarter turns „specially designed“







## Locking devices and mechanic catches



Art.:6907



Art.:6321



Art.:6313



Art.:6324



Art.:6350



Art.:6355



Art.:6352



Art.:6800



Art.:6306



Art.:6314



Art.:6315



Art.:6235



Art.:6318



Art.:6325



Art.:6300



Art.:6305



Art.:6323



Art.:6308



Art.:6322



Art.:6310



Art.:6311



Art.:6312

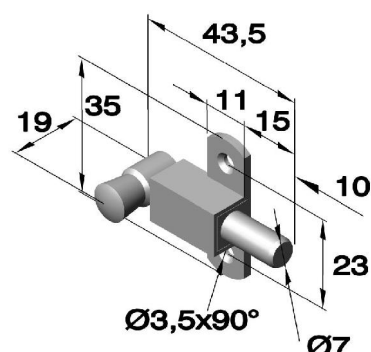


Art.:6328

## Locking devices and mechanic catches

Art. no.: 6314 (perforated and countersunk)  
Latch with return spring

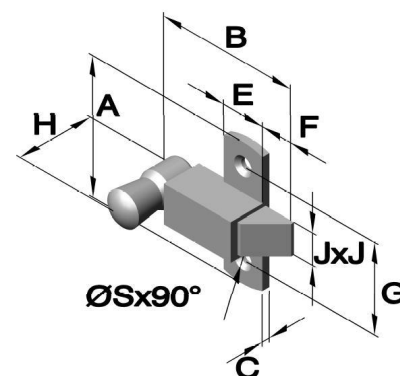
| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6314        | .01       | Steel       |
|             |           | .04         |



Art. no.: 6315 (perforated and countersunk)  
Latch with return spring

Suitable strike plate:  
Art. no.: 6318.\_\_

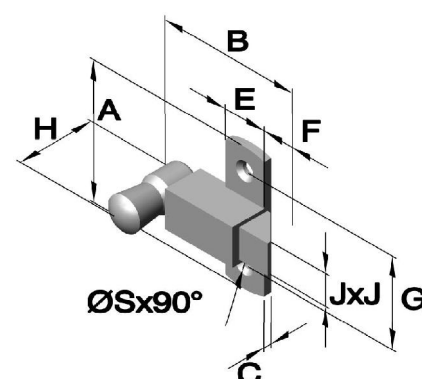
| Article no. |           |             |               | Dimensions in mm |      |     |    |    |    |    |    |     |
|-------------|-----------|-------------|---------------|------------------|------|-----|----|----|----|----|----|-----|
| Series      | Execution | Material    |               | A                | B    | C   | E  | F  | G  | H  | J  | S   |
|             |           | Zinc plated | Chrome plated |                  |      |     |    |    |    |    |    |     |
| 6315        | .01       | .04         | .23           | 35               | 36,5 | 2,2 | 11 | 8  | 23 | 19 | 8  | 3,5 |
| 6315        | .02       | .04         | .23           | 50               | 56   | 2,7 | 16 | 12 | 34 | 27 | 12 | 5,5 |
| 6315        | .03       | .04         | .23           | 70               | 73   | 3,5 | 22 | 17 | 45 | 38 | 16 | 7   |



Art. no.: 6316 (perforated and countersunk)  
Latch with return spring

Suitable Strike plate:  
Art. no.: 6318.\_\_

| Article no. |           |             |               | Dimensions in mm |      |     |    |    |    |    |    |     |
|-------------|-----------|-------------|---------------|------------------|------|-----|----|----|----|----|----|-----|
| Series      | Execution | Material    |               | A                | B    | C   | E  | F  | G  | H  | J  | S   |
|             |           | Zinc plated | Chrome plated |                  |      |     |    |    |    |    |    |     |
| 6316        | .01       | .04         | .23           | 35               | 36,5 | 2,2 | 11 | 8  | 23 | 19 | 8  | 3,5 |
| 6316        | .02       | .04         | .23           | 50               | 56   | 2,7 | 16 | 12 | 34 | 27 | 12 | 5,5 |
| 6316        | .03       | .04         | .23           | 70               | 73   | 3,5 | 22 | 17 | 45 | 38 | 16 | 7   |



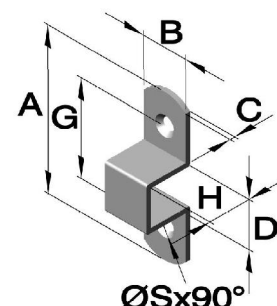
## Locking devices and mechanic catches

Art. no.: 6318 (perforated and countersunk)

Strike plate suitable for:

Art. no.: 6315. \_\_

Art. no.: 6316. \_\_



| Article no. |           |             |               | Dimensions in mm |    |     |      |      |      |     |
|-------------|-----------|-------------|---------------|------------------|----|-----|------|------|------|-----|
| Series      | Execution | Material    |               | A                | B  | C   | D    | G    | H    | S   |
|             |           | Zinc plated | Chrome plated |                  |    |     |      |      |      |     |
|             |           | Steel       | Brass         |                  |    |     |      |      |      |     |
| 6318        | .01       | .04         | .23           | 35               | 11 | 1,2 | 11,5 | 23   | 11,5 | 4,3 |
| 6318        | .02       | .04         | .23           | 50               | 16 | 1,5 | 16   | 34   | 16   | 5,2 |
| 6318        | .03       | .04         | .23           | 70               | 19 | 2   | 19   | 43,5 | 19   | 6,2 |

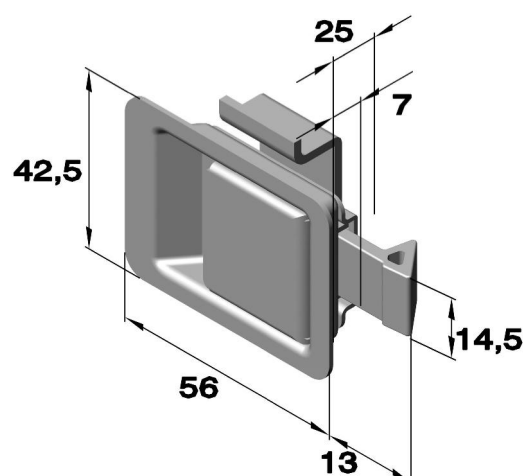
art.no. 100.2485

Countersunk folding handle with return spring,  
to screw

Clamping area: 7mm

Installation opening: 37x 48

| Article no. |               |                 |
|-------------|---------------|-----------------|
| Series      | Material      |                 |
|             | Chrome plated | Brushed         |
|             | Steel         | Stainless steel |
| 100.2485    | .03           | .30             |

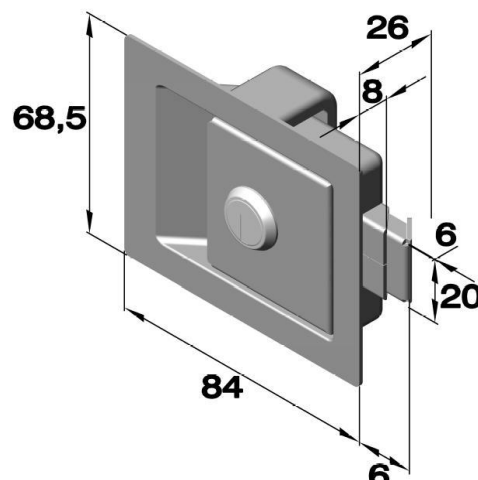


Art. no.: 6907

Countersunk folding handle with return spring,  
to screw

Installation opening: 72 x 56

| Article no. |           |               |             |                 |              |
|-------------|-----------|---------------|-------------|-----------------|--------------|
| Series      | Execution | Material      |             |                 |              |
|             |           | Chrome plated | Zinc plated | Raw             |              |
|             |           | Steel         | Steel       | Stainless steel |              |
| 6907        | .02       | -             | .04         | -               | without lock |
| 6907        | .03       | -             | .04         | -               | with lock    |
| 6907        | .04       | -             | -           | .30             | without lock |
| 6907        | .05       | -             | -           | .30             | with lock    |



## Locking devices and mechanic catches

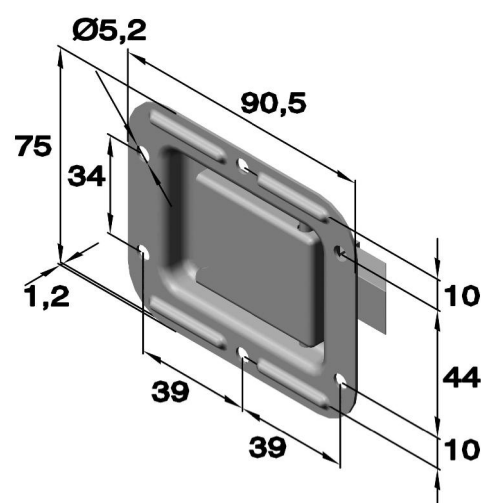
### Art.no. 100.L1037 (perforated)

Countersunk folding handle with return spring,  
to screw

Clamping area: 11-12mm

Installation opening: 48 x 64

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.L1037   | .04         |



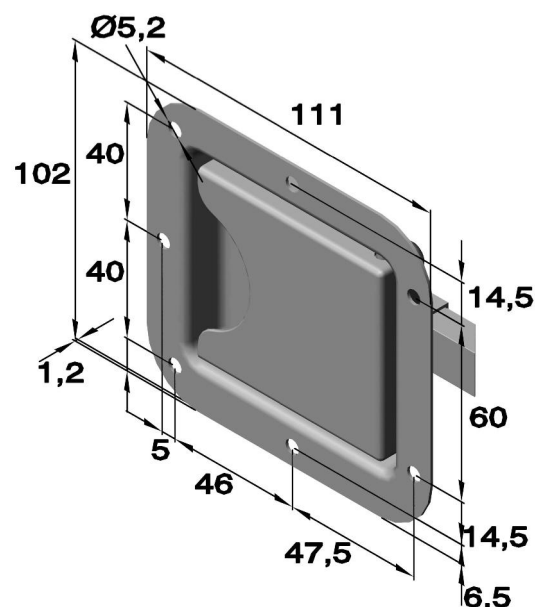
### Art.no. 100.L1066 (perforated)

Countersunk folding handle with return spring,  
to screw

Clamping area: 11-12mm

Installation opening: 76 x 86

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.L1066   | .04         |



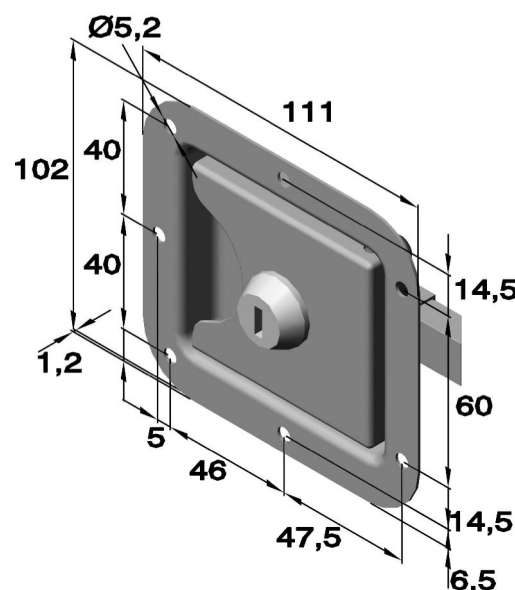
### Art.no. 100.L1068 (perforated)

Countersunk folding handle with return spring,  
to screw with lock

Clamping area: 11-12mm

Installation opening: 76 x 86

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 100.L1068   | .04         |

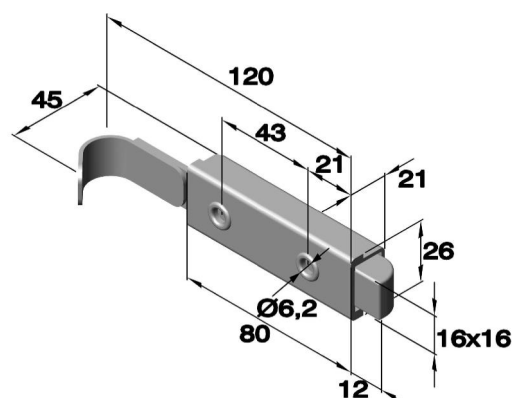


## Locking devices and mechanic catches

Art. no.: 3226 (perforated)

Latch with return spring

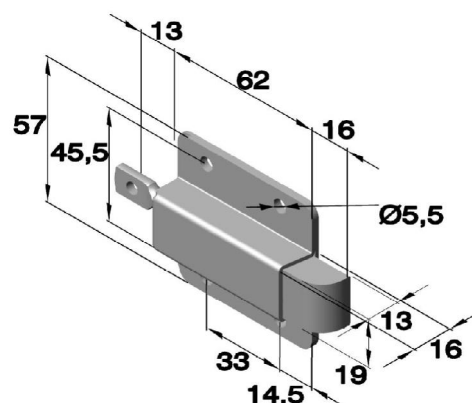
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3226        | .04         |



Art. no.: 6321.01 (perforated, rounded up)

Latch with return spring

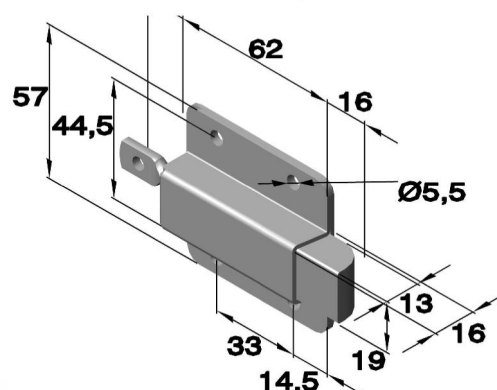
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6321.01     | .04         | .30             |



Art. no.: 6321.02 (perforated, rounded down)

Latch with return spring

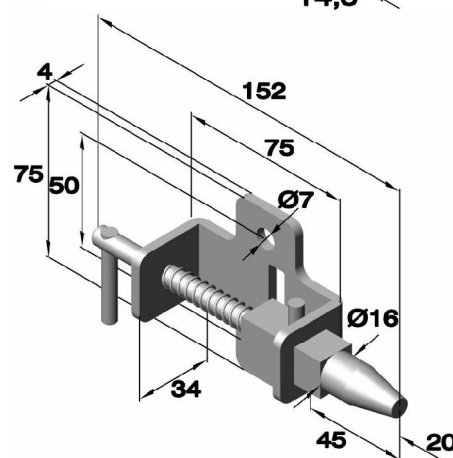
| Article no. |             |                 |
|-------------|-------------|-----------------|
| Series      | Material    |                 |
|             | Zinc plated | Raw             |
|             | Steel       | Stainless steel |
| 6321.02     | .04         | .30             |



Art. no.: 6325 (perforated)

Latch with return spring

| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 6325        | .04         |

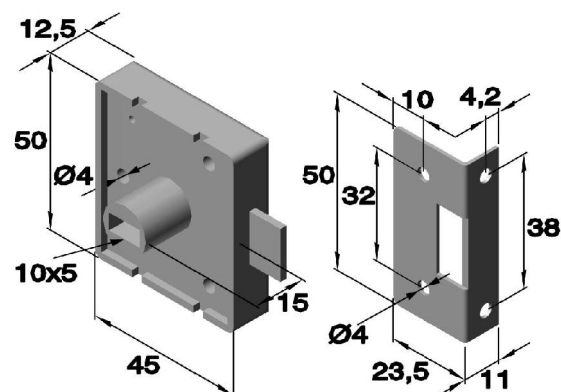


## Locking devices and mechanic catches

Art. no.: 6306 (perforated)

Door latches

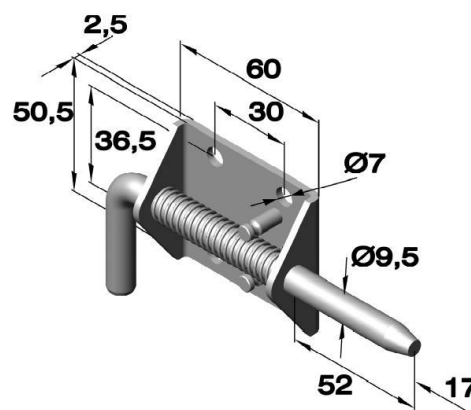
| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6306        | .01       | Steel       |
|             |           | .08         |



Art. no.: 6330.01 (drilled)

Lock bolt with return spring

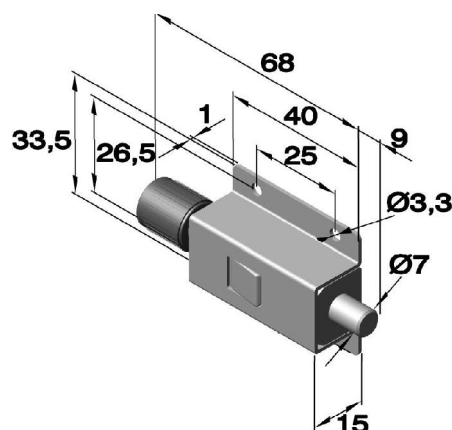
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
| 6330.01     | Steel       |
|             | .04         |



Art. no.: 6235 (perforated)

Lock bolt with return spring

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Raw             |
| 6235        | Stainless steel |
|             | .30             |



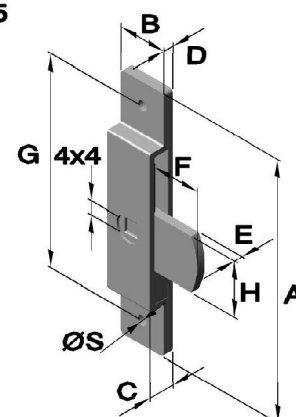
Art. no.: 6300 (perforated)

Latch

Suitable key:

Art. no.: 6310.01.08

| Article no. |           |             | Dimensions in mm |    |   |   |     |    |    |    |     |  |
|-------------|-----------|-------------|------------------|----|---|---|-----|----|----|----|-----|--|
| Series      | Execution | Material    | A                | B  | C | D | E   | F  | G  | H  | S   |  |
|             |           | Zinc plated |                  |    |   |   |     |    |    |    |     |  |
| 6300        | .01       | Steel       | 75               | 14 | 7 | 3 | 2,5 | 14 | 61 | 14 | 3,6 |  |
|             |           | .08         |                  |    |   |   |     |    |    |    |     |  |
| 6300        | .02       | Steel       | 85               | 16 | 8 | 3 | 3   | 15 | 66 | 16 | 3,6 |  |
|             |           | .08         |                  |    |   |   |     |    |    |    |     |  |





## Locking devices and mechanic catches

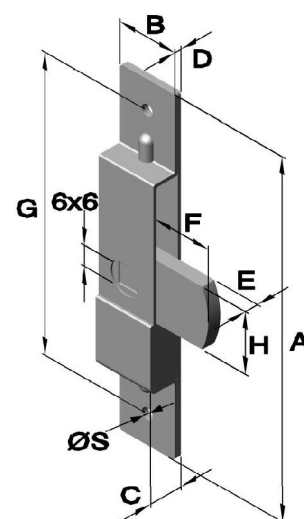
Art. no.: 6301 (perforated)

Latch

Suitable key:

Art. no.: 6311.01. \_\_

Art. no.: 6328



| Article no. |           |             | Dimensions in mm |    |      |   |   |    |    |    |     |
|-------------|-----------|-------------|------------------|----|------|---|---|----|----|----|-----|
| Series      | Execution | Material    | A                | B  | C    | D | E | F  | G  | H  | S   |
|             |           | Zinc plated |                  |    |      |   |   |    |    |    |     |
|             |           | Steel       |                  |    |      |   |   |    |    |    |     |
| 6301        | .01       | .08         | 105              | 18 | 10,5 | 2 | 4 | 17 | 87 | 18 | 3,8 |
| 6301        | .02       | .08         | 105              | 20 | 10,5 | 2 | 4 | 17 | 86 | 18 | 3,8 |
| 6301        | .03       | .08         | 115              | 22 | 11   | 2 | 6 | 16 | 97 | 22 | 5.1 |

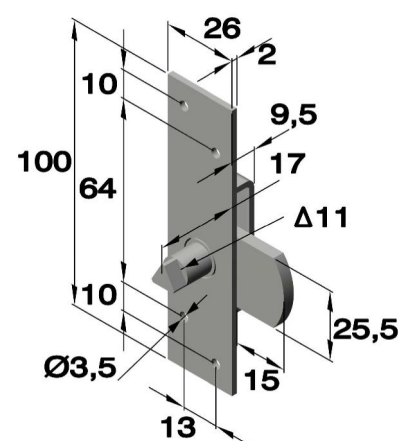
Art. no.: 6305 (perforated)

Latch

This article works left and right

Suitable key:

Art. no.: 6312.01. \_\_



| Article no. |           |                      |
|-------------|-----------|----------------------|
| Series      | Execution | Material             |
|             |           | Steel<br>Zinc plated |
| 6305        | .01       | .04                  |

Art. no.: 6308 (perforated)

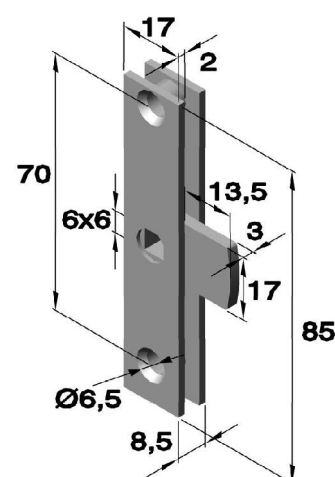
Latch

This article works left and right

Suitable key:

Art. no.: 6311.01. \_\_

Art. no.: 6328



| Article no. |           |                        |
|-------------|-----------|------------------------|
| Series      | Execution | Material               |
|             |           | Raw<br>Stainless steel |
| 6308        | .02       | .30                    |

## Locking devices and mechanic catches

### Art. no.: 6322 (perforated)

Latch with return spring

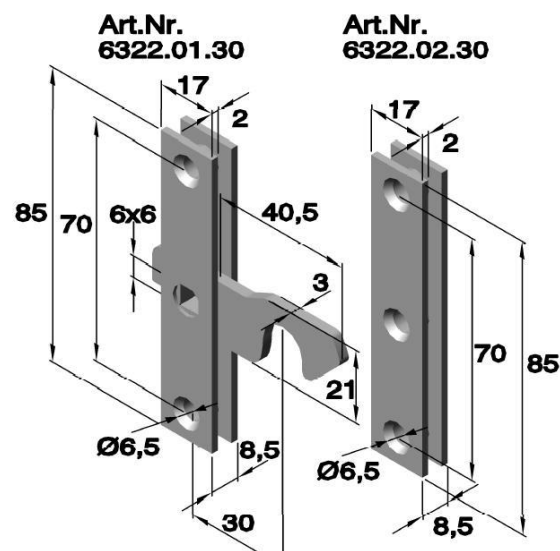
This article works left and right

Suitable key:

Art. no.: 6311

Art. no.: 6328

| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Raw      |
| 6322        | .01       | .30      |
| 6322        | .02       | .30      |



### Art. no.: 6323 (perforated)

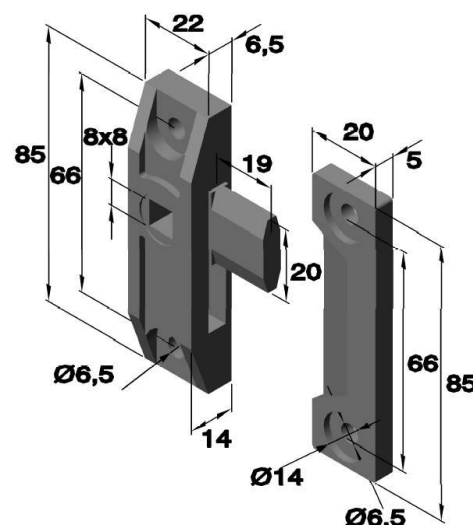
Latch

This article works left and right

Suitable key:

Art. no.: 6328

| Article no. |  | Material               |
|-------------|--|------------------------|
| Series      |  | POM (Polyoxymethylene) |
| 6323        |  | .30                    |



### Art. no.: 6327 (perforated)

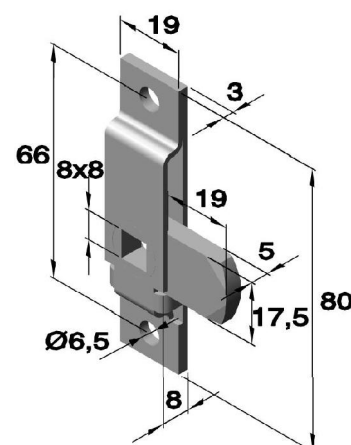
Latch

This article works left and right

Suitable key:

Art. no.: 6328

| Article no. |           |             |     |
|-------------|-----------|-------------|-----|
| Series      | Execution | Material    |     |
|             |           | Zinc plated | Raw |
| 6327        | .01       | .04         | -   |
| 6327        | .02       | -           | .30 |



## Locking devices and mechanic catches

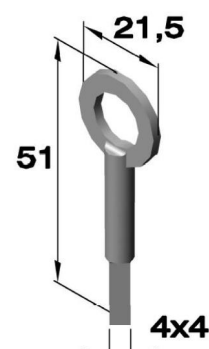
### Art. no.: 6310

Suitable for:

Art. no.: 6300.01. \_\_

Art. no.: 6300.02. \_\_

| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6310        | .01       | Steel       |
|             |           | .08         |



### Art. no.: 6311

Suitable for:

Art. no.: 6301. \_\_

Art. no.: 6308. \_\_

Art. no.: 6322. \_\_

| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6311        | .01       | Zamak       |
|             |           | .04         |

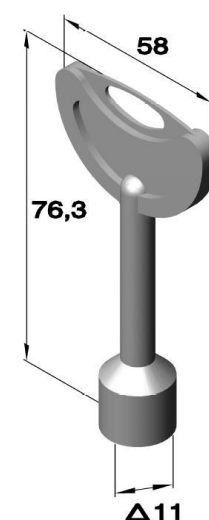


### Art. no.: 6312

Suitable for:

Art. no.: 6305. \_\_

| Article no. |           |             |
|-------------|-----------|-------------|
| Series      | Execution | Material    |
|             |           | Zinc plated |
| 6312        | .01       | Zamak       |
|             |           | .04         |



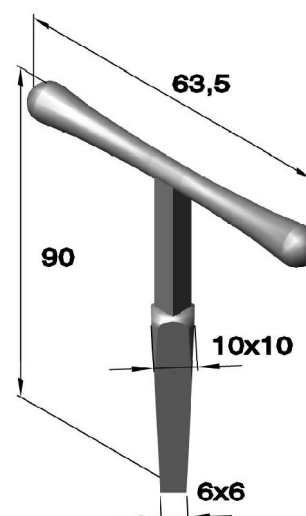
## Locking devices and mechanic catches

### Art. no.: 6328

Suitable for:

Art. no.: 6301.\_\_\_\_  
Art. no.: 6308.\_\_\_\_  
Art. no.: 6322.\_\_\_\_  
Art. no.: 6323.\_\_\_\_  
Art. no.: 6327.\_\_\_\_

| Article no. |            |
|-------------|------------|
| Series      | Material   |
| 6328        | Cast steel |

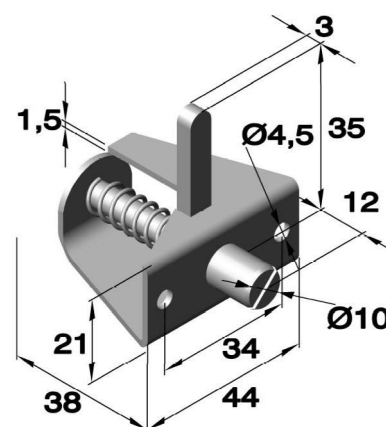


### Art. no.: 6319 (perforated)

Latch with return spring

Spring made of stainless steel

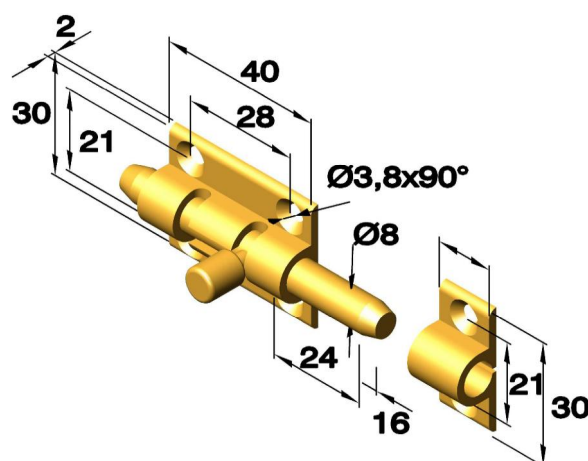
| Article no. |             |
|-------------|-------------|
| Series      | Material    |
| 6319        | Zinc plated |
|             | Steel       |
|             | .04         |



### Art. no.: 6313 (perforated and countersunk)

Shoot bolt with locking plate

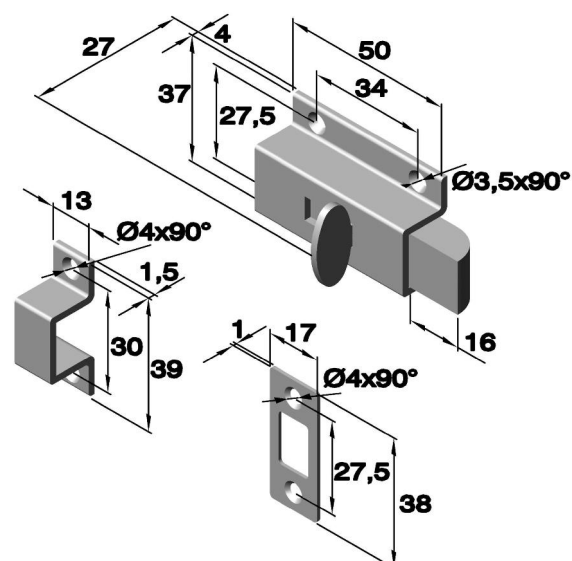
| Article no. |          |               |
|-------------|----------|---------------|
| Series      | Material |               |
|             | Brass    | Brass         |
| 6313        | Polished | Chrome plated |
|             | .22      | .23           |



## Locking devices and mechanic catches

Art. no.: 6324 (perforated and countersunk)  
Shoot bolt with locking plate

| Article no. |                 |
|-------------|-----------------|
| Series      | Material        |
|             | Satin finished  |
|             | Stainless steel |
| 6324        | .30             |

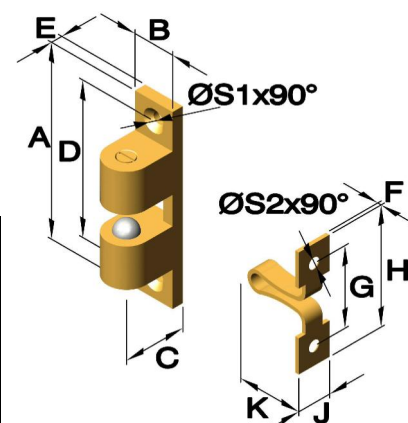


Art. no.: 6350 (perforated and countersunk)

Double ball catches, mechanical  
to screw

The locking plate can be inserted in  
4 different directions inside  
the interlock plate

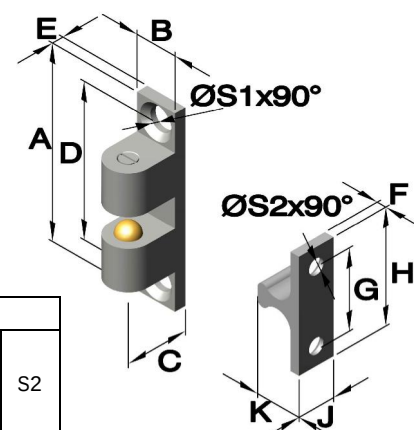
| Article no. |           |          | Dimensions in mm |      |      |    |     |     |    |    |    |    |     |     |
|-------------|-----------|----------|------------------|------|------|----|-----|-----|----|----|----|----|-----|-----|
| Series      | Execution | Material | A                | B    | C    | D  | E   | F   | G  | H  | J  | K  | S1  | S2  |
|             |           | Brassed  |                  |      |      |    |     |     |    |    |    |    |     |     |
|             |           | Zamak    |                  |      |      |    |     |     |    |    |    |    |     |     |
| 6350        | .01       | .52      | 50               | 11   | 12,5 | 40 | 3   | 1,4 | 21 | 30 | 8  | 18 | 4,2 | 3,5 |
| 6350        | .02       | .52      | 60               | 14,5 | 14,5 | 48 | 3   | 2   | 26 | 42 | 10 | 20 | 4,2 | 4,2 |
| 6350        | .03       | .52      | 70               | 17,5 | 16,5 | 57 | 3,5 | 2   | 32 | 50 | 12 | 22 | 4,2 | 3,2 |



Art. no.: 6352 (perforated and countersunk)

Double ball catcher, mechanical  
to screw

| Article no. |           |               | Dimensions in mm |      |      |    |     |     |    |    |      |    |     |     |
|-------------|-----------|---------------|------------------|------|------|----|-----|-----|----|----|------|----|-----|-----|
| Series      | Execution | Material      | A                | B    | C    | D  | E   | F   | G  | H  | J    | K  | S1  | S2  |
|             |           | Chrome plated |                  |      |      |    |     |     |    |    |      |    |     |     |
|             |           | Zamak         |                  |      |      |    |     |     |    |    |      |    |     |     |
| 6352        | .01       | .53           | 42,5             | 8    | 10   | 35 | 2,5 | 2,5 | 16 | 25 | 7,5  | 11 | 3,2 | 3,2 |
| 6352        | .03       | .53           | 50               | 10   | 12,5 | 40 | 3   | 2,5 | 20 | 30 | 9    | 12 | 4,2 | 4,2 |
| 6352        | .05       | .53           | 70               | 13,5 | 17   | 60 | 4   | 3   | 30 | 42 | 10,5 | 17 | 4,2 | 4,2 |



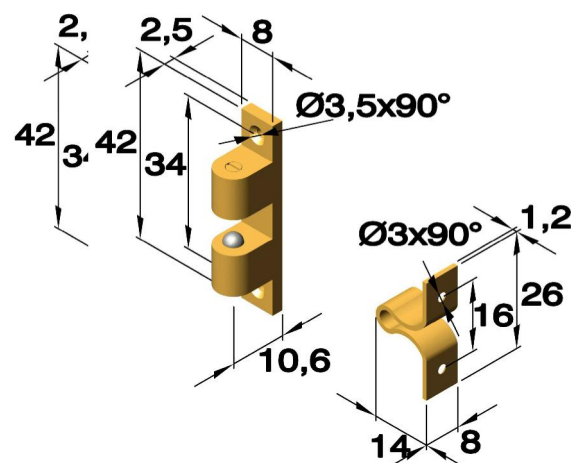
## Locking devices and mechanic catches

Art. no.: 6355 (perforated and countersunk)

Double ball catcher, mechanical  
to screw

The locking plate can be inserted in  
2 different directions inside  
the interlock plate

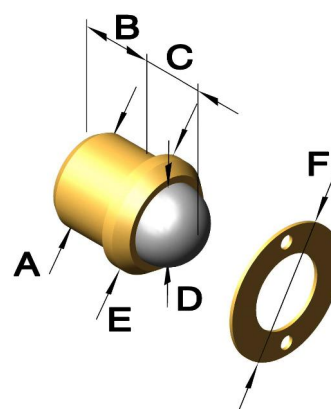
| Article no. |           |                  |
|-------------|-----------|------------------|
| Series      | Execution | Material         |
|             |           | Brassed<br>Zamak |
| 6350        | .01       | .52              |



Art. no.: 6800

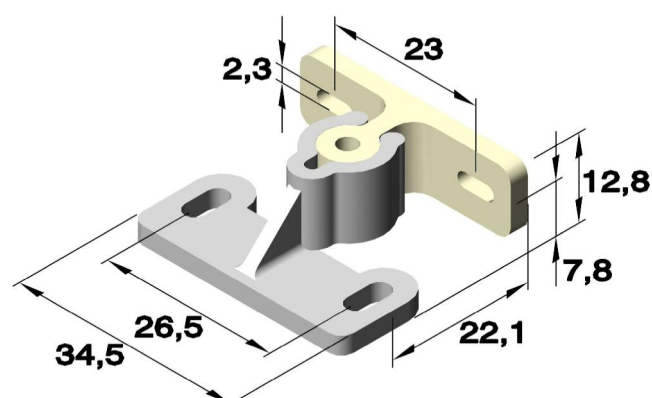
Ball catcher

| Article no. |           |              | Dimensions in mm |      |     |     |    |      |  |
|-------------|-----------|--------------|------------------|------|-----|-----|----|------|--|
| Series      | Execution | Material     | A                | B    | C   | D   | E  | F    |  |
|             |           | Raw<br>Brass |                  |      |     |     |    |      |  |
| 6800        | .01       | .20          | 8                | 7,5  | 4,5 | 6,5 | 9  | 16   |  |
| 6800        | .02       | .20          | 10               | 8,5  | 6,5 | 8   | 11 | 16   |  |
| 6800        | .03       | .20          | 12               | 9    | 7   | 10  | 13 | 19,5 |  |
| 6800        | .04       | .20          | 13               | 10,5 | 7,2 | 10  | 14 | 19,5 |  |



Art.no. 6356

| Article no. |           |                |
|-------------|-----------|----------------|
| Series      | Execution | Material       |
|             |           | Raw<br>Plastic |
| 6356        | .01       | .86            |

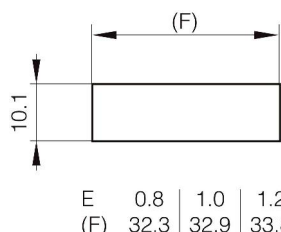




## Locking devices and mechanic catches

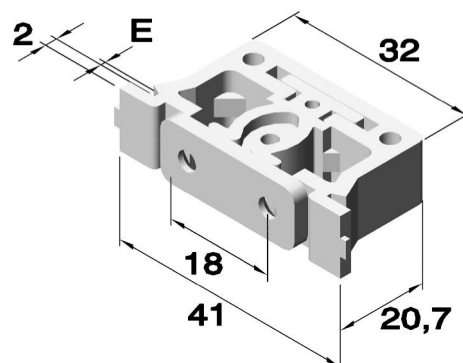
### Art.no. 6354

Installation opening



|     |      |      |      |
|-----|------|------|------|
| E   | 0.8  | 1.0  | 1.2  |
| (F) | 32.3 | 32.9 | 33.8 |

| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Raw      |
|             |           | Plastic  |
| 6354        | .01       | .86      |



### Art.no. L80

Compression latch

With or without lock cylinder available

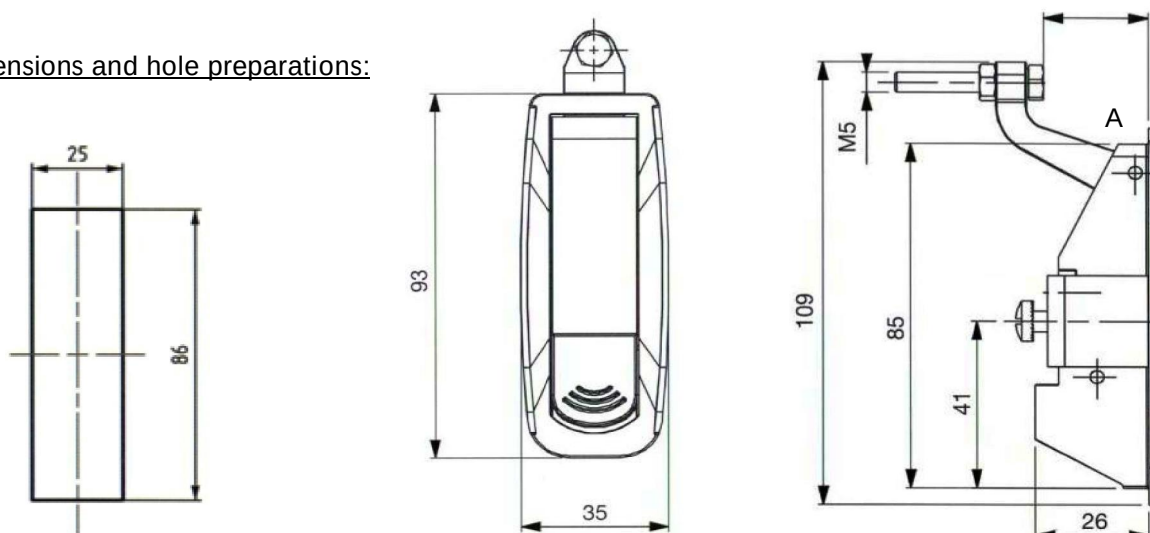
Adjustable clamping area from 24-46mm

Suitable for panel thickness from max. 2mm

Supplied with a mounting plate

| Article no. |           |              |               |          |               |                       | Dimensions in mm |
|-------------|-----------|--------------|---------------|----------|---------------|-----------------------|------------------|
| Series      | Execution | Material     |               | Same key | Different key | Without lock cylinder | A                |
|             |           | Black coated | Chrome plated |          |               |                       |                  |
|             |           | Zamak        | Zamak         |          |               |                       |                  |
| L80         | B         | -EH          | -ED           | A        | D             | N                     | 0-24             |
| L80         | A         | -EH          | -ED           | A        | D             | N                     | 24-46            |

Dimensions and hole preparations:



## Locking devices and mechanic catches

### Art.no. 6335

Compression latch

With or without lock cylinder available

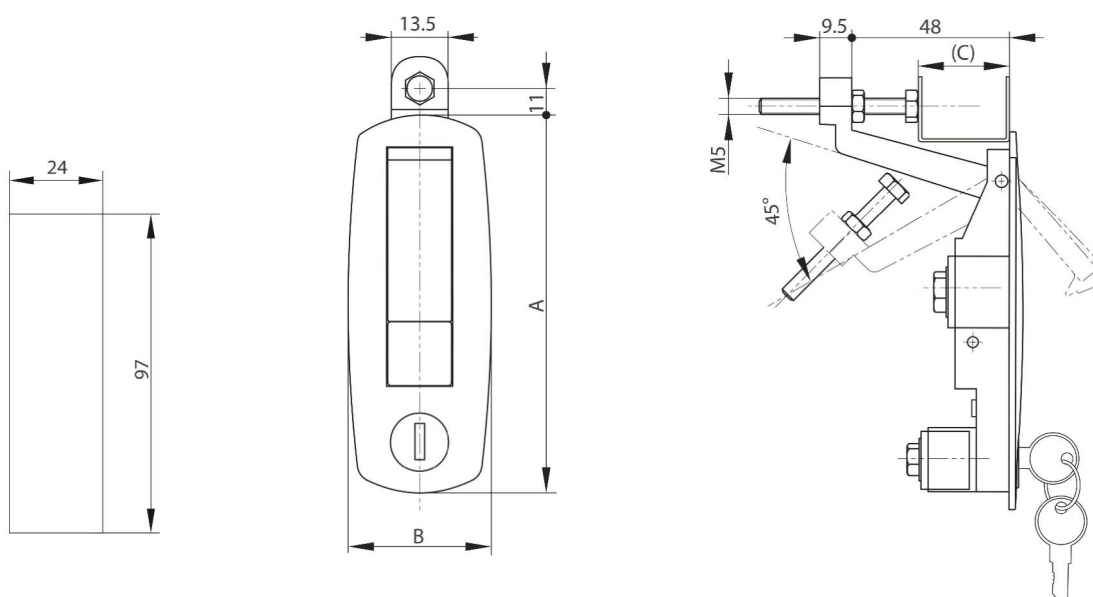
Adjustable clamping area from 1-35mm

Supplied with a mounting plate  
and screws in zinc plated steel.



| Article no. |           |                        |              | Dimensions in mm |    |      |
|-------------|-----------|------------------------|--------------|------------------|----|------|
| Series      | Execution | Material               |              | A                | B  | C    |
|             |           | Black coating<br>Zamak |              |                  |    |      |
| 6335        | .11       | .59                    | with lock    | 106              | 42 | 1-35 |
| 6335        | .12       | .59                    | without lock | 106              | 42 | 1-35 |

### Dimensions and hole preparations:



# Locking devices and mechanic catches

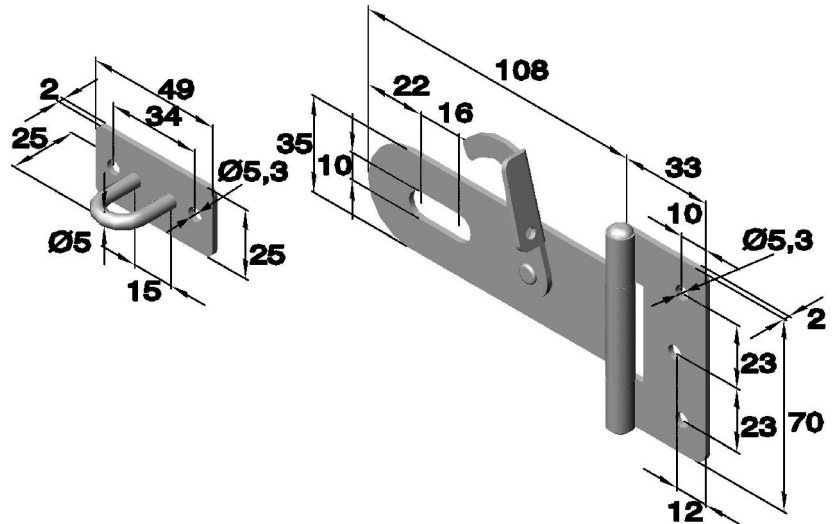
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## Hasps

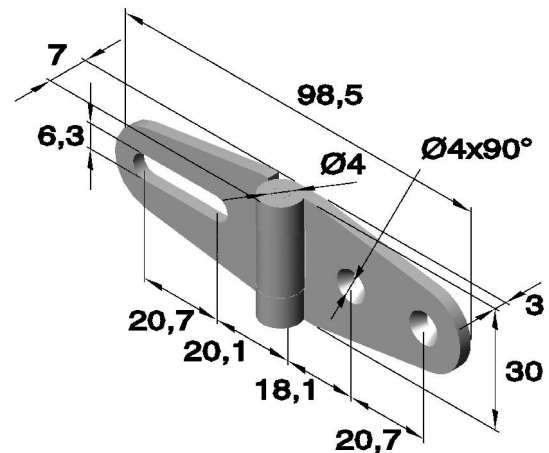
Art. no.: 3045 (perforated)  
Hasp with lock bracket



| Article no. |             |
|-------------|-------------|
| Series      | Material    |
|             | Zinc plated |
|             | Steel       |
| 3045        | .04         |

Art. no.: 6028.01 (perforated and countersunk)  
Hasp

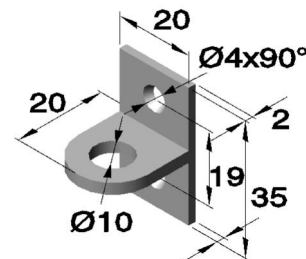
Suitable lock bracket:  
Art. no.: 6029.01.23



| Article no. |               |
|-------------|---------------|
| Series      | material      |
|             | Chrome plated |
|             | Brass         |
| 6028.01     | .23           |

Art. no.: 6029.01 (perforated and countersunk)  
Lock bracket

Suitable hasp:  
Art. no.: 6028.01.23



| Article no. |               |
|-------------|---------------|
| Series      | Material      |
|             | Chrome plated |
|             | Brass         |
| 6029.01     | .23           |



## Magnetic catches



Art.:6470.25



Art.:6470.04



Art.:6470.30



Art.:6470.06



Art.:6470.07



Art.:6470.09



Art.:6470.15



Art.:6470.08



Art.:6470.28



Art.:6470.17



Art.:6470.12



Art.:6470.13



Art.:6470.14



Art.:6470.01



Art.:6470.16



Art.:6470.32



Art.:6470.11



Art.:6470.11.08



Art.:6470.16



Art.:6470.18



Art.:6470.19



Art.:6470.21

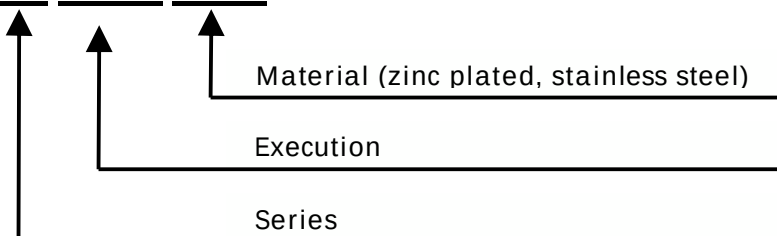


Art.:6470.29

# Magnetic catches

## Ordering example:

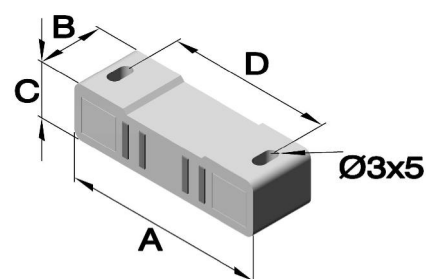
Art.no 6072 01/02 04/30



Art. no.: 6470.01

Magnetic catches

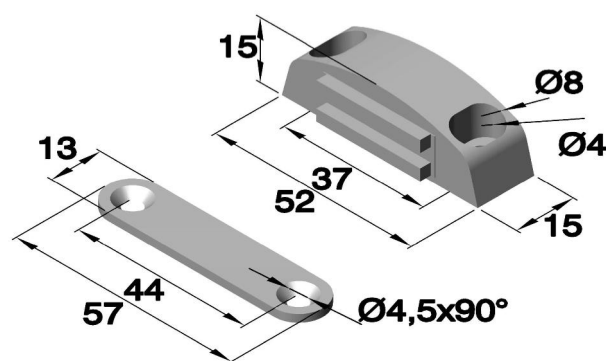
| Article no. |           |               | Dimensions in mm |      |    |    | Force in kg |
|-------------|-----------|---------------|------------------|------|----|----|-------------|
| Series      | Execution | Material      | A                | B    | C  | D  |             |
| 6470        | .01       | White Plastic | 48,5             | 16,5 | 13 | 39 | 4           |



Art.no. 6470.04

Magnetic catches with striking plate

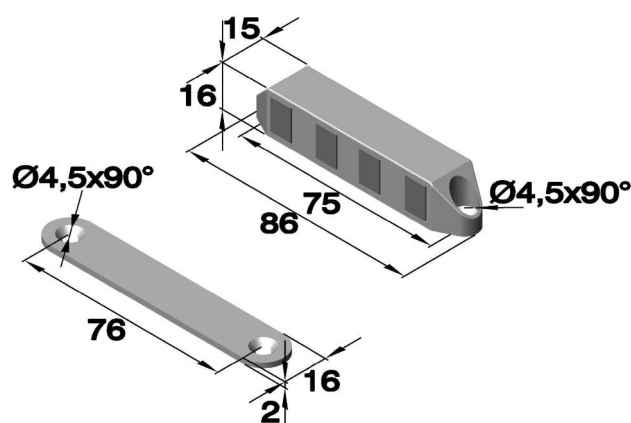
| Article no. |           |                     | Force in kg |
|-------------|-----------|---------------------|-------------|
| Series      | Execution | Material            |             |
| 6470        | .04       | Nickel-plated Zamak | 4           |



Art. no.: 6470.06

Magnetic catches with striking plate

| Article no. |           |                     | Force in kg | Temp. in C° |
|-------------|-----------|---------------------|-------------|-------------|
| Series      | Execution | Material            |             |             |
| 6470        | .06.01    | Nickel-plated Zamak | 8           | up to 80°   |
| 6470        | .06.02    | Nickel-plated       | 8           | up to 300°  |



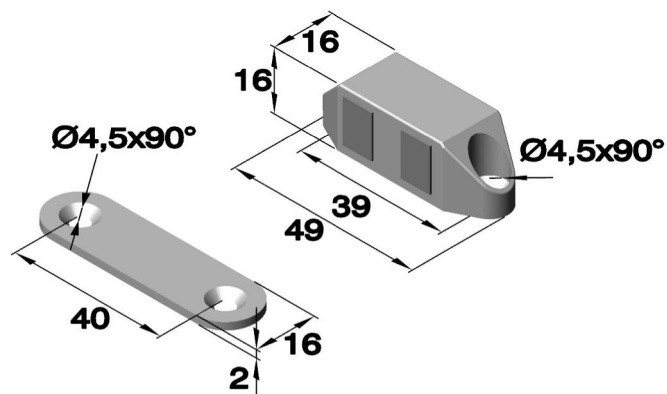


# Magnetic catches

## Art. no.: 6470.07

Magnetic catches with striking plate

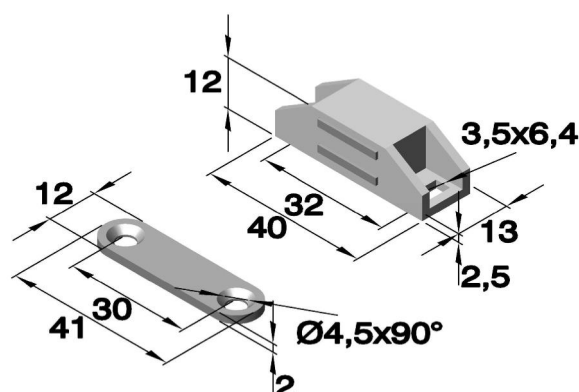
| Article no. |           |                   | Force<br>in kg | Temp.<br>in C° |
|-------------|-----------|-------------------|----------------|----------------|
| Series      | Execution | Material<br>Zamak |                |                |
| 6470        | .07.01    | Nickel-plated     | 4              | up to 80°      |
| 6470        | .07.02    | Nickel-plated     | 4              | up to 300°     |



## Art. no.: 6470.08

Magnetic catches with striking plate

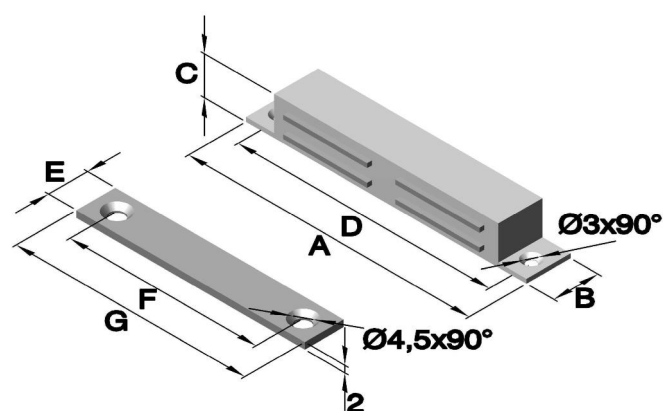
| Article no. |           |                     | Force<br>in kg |
|-------------|-----------|---------------------|----------------|
| Series      | Execution | Material<br>Plastic |                |
| 6470        | .08       | White               | 2-3            |



## Art. no.: 6470.09

Magnetic catches with striking plate

| Article no. |           |                     | Dimensions in mm |    |    |    |    |    |    | Force<br>in kg |
|-------------|-----------|---------------------|------------------|----|----|----|----|----|----|----------------|
| Series      | Execution | Material<br>Plastic | A                | B  | C  | D  | E  | F  | G  |                |
| 6470        | .09.01    | White               | 86               | 13 | 15 | 77 | 12 | 57 | 70 | 4,8            |
| 6470        | .09.02    | White               | 105,3            | 16 | 18 | 94 | 14 | 65 | 79 | 5,6            |

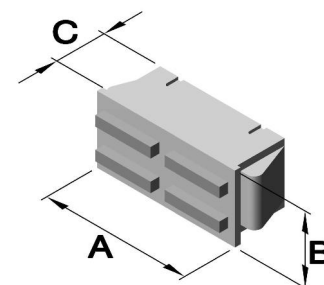
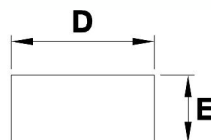


## Magnetic catches

Art. no.: 6470.11

Hole pattern

Magnetic catches



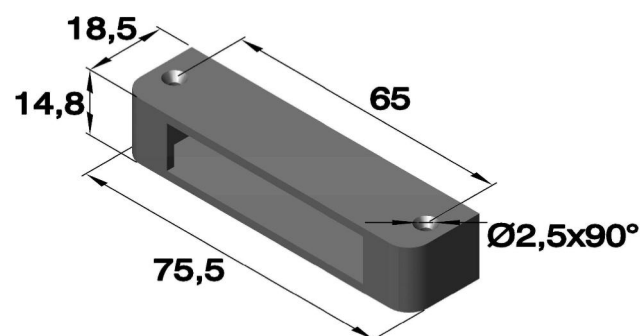
| Article no. |           |                           | Dimensions in mm |      |      |      |      |                 | Force in kg |
|-------------|-----------|---------------------------|------------------|------|------|------|------|-----------------|-------------|
| Series      | Execution | Material<br>Polypropylene | A                | B    | C    | D    | E    | Sheet thickness |             |
| 6470        | .11.01    | White                     | 25,5             | 12,3 | 10,4 | 23   | 11   | 1,5             | 1,5         |
| 6470        | .11.02    | White                     | 25,5             | 9,6  | 11   | 23   | 8,2  | 1,5             | 1,8         |
| 6470        | .11.03    | White                     | 39,5             | 10   | 11   | 35   | 8,2  | 1,5             | 4           |
| 6470        | .11.04    | Black                     | 54               | 12,5 | 14,5 | 51,5 | 10,8 | 2,0             | 15          |

Art. no.: 6470.11.08

Housing for

Art. no.: 6470.11.04

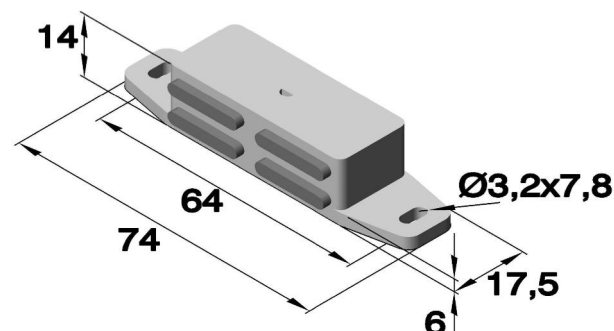
| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
| 6470        | .11.08    | Black    |



Art. no.: 6470.12

Magnetic catches

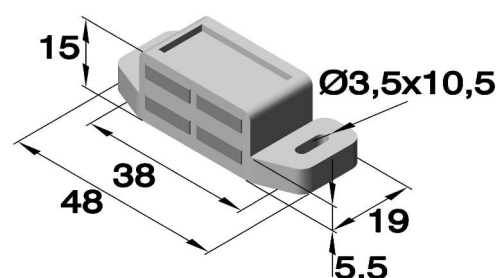
| Article no. |           |                     | Force in kg |
|-------------|-----------|---------------------|-------------|
| Series      | Execution | Material<br>Plastic |             |
| 6470        | .12       | White               | 12          |



Art. no.: 6470.13

Magnetic catches

| Article no. |           |                     | Force in kg |
|-------------|-----------|---------------------|-------------|
| Series      | Execution | Material<br>Plastic |             |
| 6470        | .13       | White               | 4           |

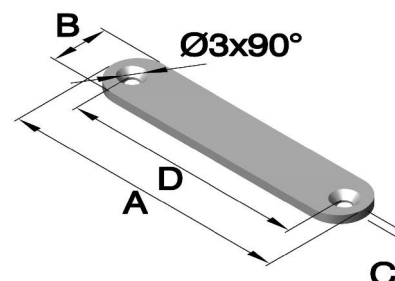


# Magnetic catches

## Art. no.: 6470.14

Striking plate for Art. no.: 6470.11  
Art. no.: 6470.11  
Art. no.: 6470.13

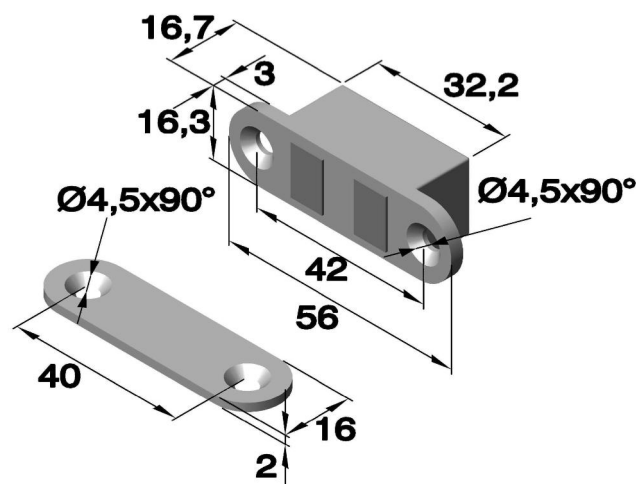
| Article no. |           |             | Dimensions in mm |    |     |    |
|-------------|-----------|-------------|------------------|----|-----|----|
| Series      | Execution | Material    | A                | B  | C   | D  |
|             |           | Steel       |                  |    |     |    |
| 6470        | .14.02    | Zinc plated | 41               | 14 | 1,5 | 31 |
| 6470        | .14.04    | Zinc plated | 66               | 12 | 2   | 54 |



## Art. no.: 6470.15

Magnetic catches with striking plate

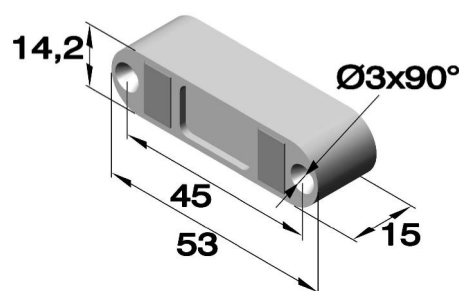
| Article no. |           |               | Force in kg | Temp. in C° |
|-------------|-----------|---------------|-------------|-------------|
| Series      | Execution | Material      |             |             |
|             |           | Zamak         |             |             |
| 6470        | .15       | Nickel-plated | 4           | up to 150°  |



## Art. no.: 6470.16.01

Magnetic catches

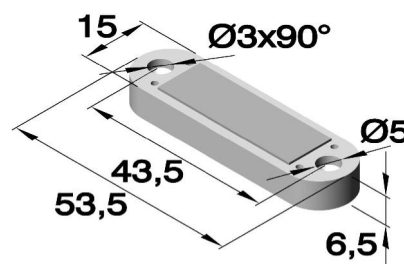
| Article no. |           |          | Force in kg |
|-------------|-----------|----------|-------------|
| Series      | Execution | Material |             |
|             |           | Plastic  |             |
| 6470        | .16.01    | White    | 4           |



## Art. no.: 6470.16.02

Striking plate for Art. no.: 6470.16.01

| Article no. |           |          |
|-------------|-----------|----------|
| Series      | Execution | Material |
|             |           | Plastic  |
| 6470        | .16.02    | White    |

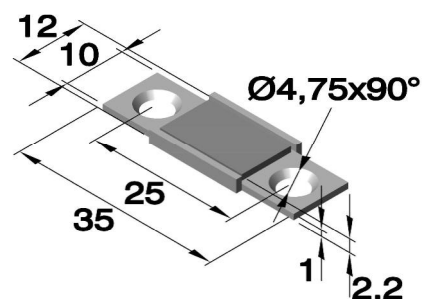


# Magnetic catches

Art. no.: 6470.17

Magnetic catches

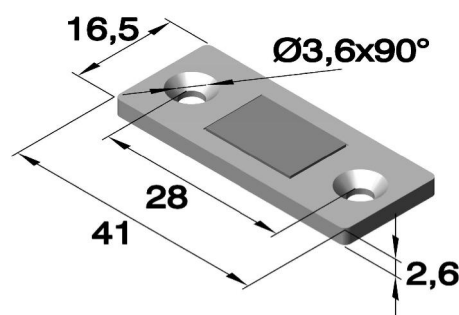
| Article no. |           |                   | Force<br>in kg | Temp.<br>in C° |
|-------------|-----------|-------------------|----------------|----------------|
| Series      | Execution | Material<br>Steel |                |                |
| 6470        | .17       | Nickel-plated     | 2,7            | up to 80°      |



Art. no.: 6470.28

Magnetic catches

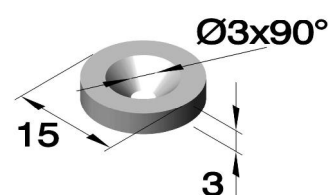
| Article no. |           |                   | Force<br>in kg | Temp.<br>in C° |
|-------------|-----------|-------------------|----------------|----------------|
| Series      | Execution | Material<br>Steel |                |                |
| 6470        | .28.01    | Nickel-plated     | 4              | up to 80°      |



Art. no.: 6470.18

Striking plate for     Art. no.: 6470.19.04  
                                 Art. no.: 6470.20.07  
                                 Art. no.: 6470.21.70  
                                 Art. no.: 6470.22.70

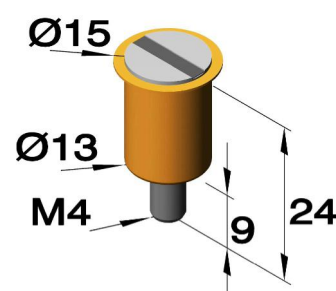
| Article no. |           |                   |
|-------------|-----------|-------------------|
| Series      | Execution | Material<br>Steel |
| 6470        | .18.04    | Zinc plated       |



Art. no.: 6470.19

Retractable magnetic catches

| Article no. |           |                   | Sheet<br>thickness<br>in mm | Force<br>in kg |
|-------------|-----------|-------------------|-----------------------------|----------------|
| Series      | Execution | Material<br>Steel |                             |                |
| 6470        | .19.04    | Zinc plated       | max 16                      | 5              |

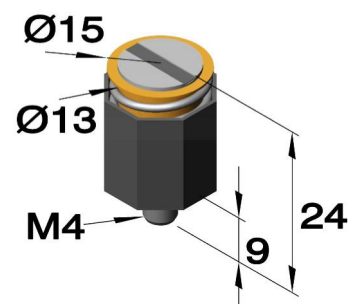


# Magnetic catches

Art. no.: 6470.20

Retractable magnetic catches

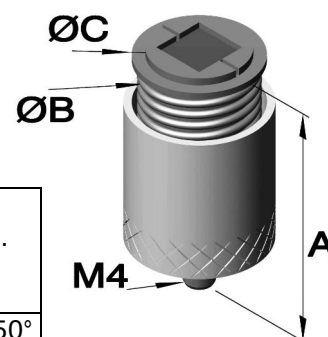
| Article no. |           |                |         | Sheet thickness<br>in mm | Force<br>in kg |
|-------------|-----------|----------------|---------|--------------------------|----------------|
| Series      | Execution | Material       |         |                          |                |
|             |           | Steel          | Plastic |                          |                |
| 6470        | .20.07    | Zinc<br>plated | Black   | max 3                    | 4,2            |



Art. no.: 6470

Retractable magnetic catches

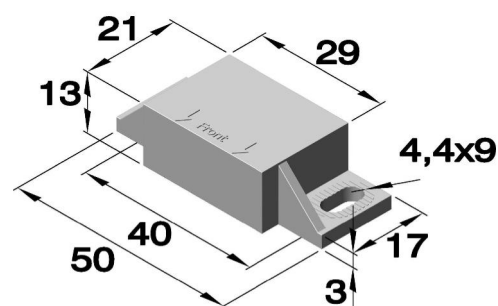
| Article no. |           |             |           | Dimensions in mm |    |    |                 | Force in kg | Temp. in C° |
|-------------|-----------|-------------|-----------|------------------|----|----|-----------------|-------------|-------------|
| Series      | Execution | Material    |           | A                | B  | C  | Sheet thickness |             |             |
|             |           | Steel       | Aluminium |                  |    |    |                 |             |             |
| 6470        | .21.70    | Zinc plated | Raw       | 26               | 13 | 15 | max 3           | 4,2         | up to 250°  |
| 6470        | .22.70    | Zinc plated | Raw       | 31               | 16 | 20 | max 3           | 8           | up to 250°  |



Art. no.: 6470

Magnetic catches

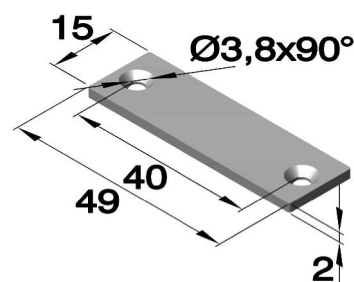
| Article no. |           |                     | Force<br>in kg |
|-------------|-----------|---------------------|----------------|
| Series      | Execution | Material<br>Plastic |                |
| 6470        | .25.01    | White               | 3              |
| 6470        | .27       | Black               | 3              |



Art. no.: 6470.26

Striking plate for Art. no.: 6470.25.01  
Art. no.: 6470.27

| Article no. |           |          |                 |
|-------------|-----------|----------|-----------------|
| Series      | Execution | Material |                 |
|             |           | Steel    | Stainless steel |
| 6470        | .26       |          | .30             |

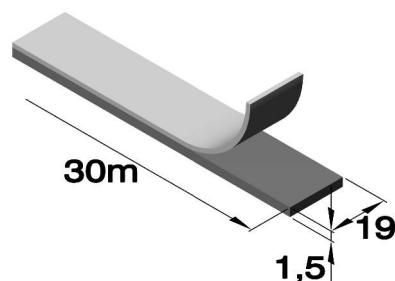


## Magnetic catches

Art. no.: 6470.29

Adhesive magnetic tape

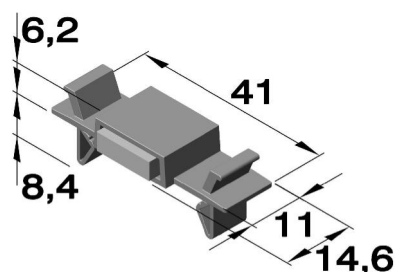
| Article no. |           |                             | Force<br>in<br>g/cm <sup>2</sup> | Temp.<br>in C° |
|-------------|-----------|-----------------------------|----------------------------------|----------------|
| Series      | Execution | Material<br>flexible magnet |                                  |                |
| 6470        | .29       | adhesive                    | 55                               | up to<br>100°  |



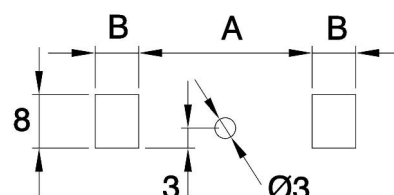
Art. no.: 6470

Magnetic catches

| Article no. |           |                     | Sheet thickness<br>in mm | Force<br>in kg |
|-------------|-----------|---------------------|--------------------------|----------------|
| Series      | Execution | Material<br>Plastic |                          |                |
| 6470        | .30       | Black               | 1,6 und 2,6              | 1,2            |
| 6470        | .31       | Black               | 1,6 und 2,6              | 3              |



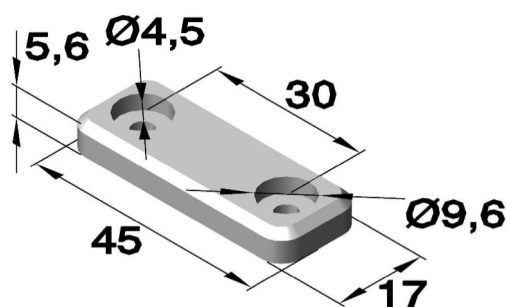
| Hole pattern    |      |     |
|-----------------|------|-----|
| Sheet thickness | A    | B   |
| 1,6 mm          | 26   | 6,5 |
| 2,6mm           | 24,6 | 5,8 |



Art. no.: 6470.32

Magnetic catches

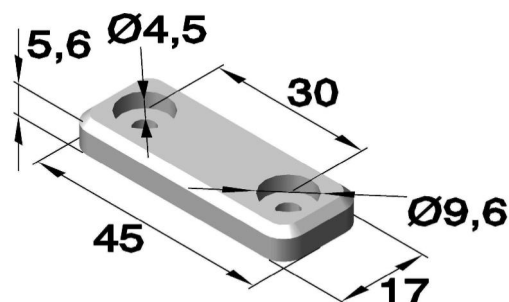
| Article no. |           |                     | Force<br>in kg |
|-------------|-----------|---------------------|----------------|
| Series      | Execution | Material<br>Plastic |                |
| 6470        | .32.01    | White               | 3              |



Art. no.: 6470.32

Striking plate for art. no.: 6470.32.01

| Article no. |           |                     |
|-------------|-----------|---------------------|
| Series      | Execution | Material<br>Plastic |
| 6470        | .32.02    | White               |







## Hood catches

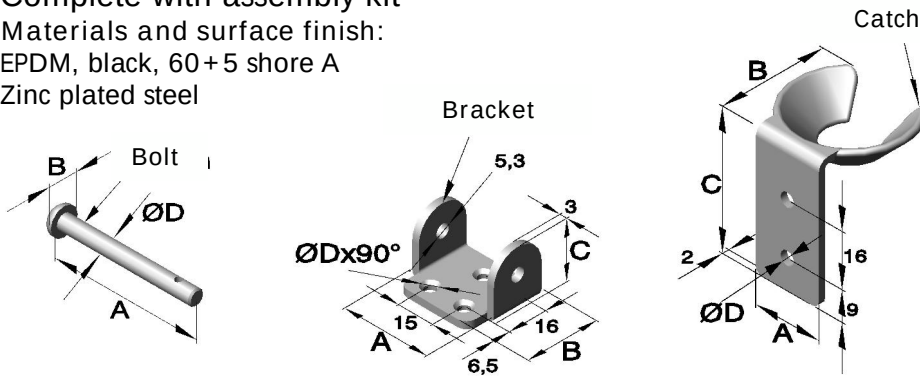
Art. no.: 7020 „hood catches big“

Complete with assembly kit

Materials and surface finish:

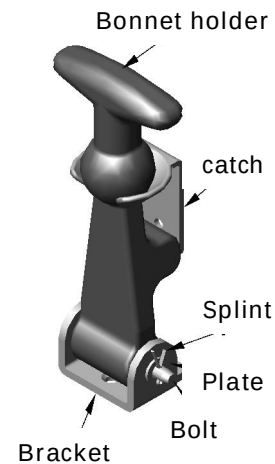
EPDM, black, 60+5 shore A

Zinc plated steel



Delivery of individual parts is possible

| Article no. |                   | Description  | Dimensions in mm |    |     |     |
|-------------|-------------------|--------------|------------------|----|-----|-----|
| Series      | Material          |              | A                | B  | C   | Ø D |
| 7001        | EPDM, black       | hood catches | 60               | 26 | 124 | 5   |
| 7005        | zinc plated steel | catch        | 20               | 29 | 42  | 4,2 |
| 7006        | zinc plated steel | bracket      | 30               | 30 | 24  | 4,2 |
| 7007        | zinc plated steel | bolts        | 47               | 9  | -   | 5   |
| 7008        | zinc plated steel | plate        | -                | -  | -   | -   |
| 7009        | zinc plated steel | splint       | -                | -  | -   | -   |



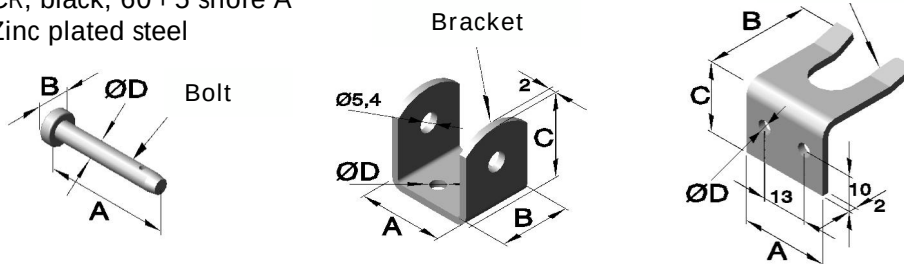
Art. no.: 7050 „hood catches small“

Complete with assembly kit

Materials and surface finish:

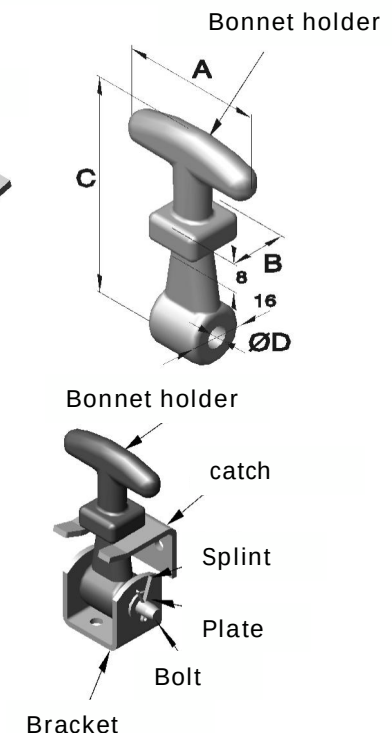
CR, black, 60+5 shore A

Zinc plated steel



Delivery of individual parts is possible

| Article no. |                   | Description  | Dimensions in mm |    |    |     |
|-------------|-------------------|--------------|------------------|----|----|-----|
| Series      | Material          |              | A                | B  | C  | Ø D |
| 7030        | CR, black         | hood catches | 40               | 16 | 64 | 5   |
| 7035        | zinc plated steel | catch        | 24               | 20 | 24 | 4,2 |
| 7036        | zinc plated steel | bracket      | 24               | 20 | 24 | 4,2 |
| 7037        | zinc plated steel | bolts        | 35               | 9  | -  | 5   |
| 7038        | zinc plated steel | plate        | -                | -  | -  | -   |
| 7039        | zinc plated steel | splint       | -                | -  | -  | -   |





# HoKon

VERSCHLUSSTECHNIK &  
SONDERKONSTRUKTIONEN

Zertifiziert nach DIN EN ISO 9001:2008



Keenserts

Recoil



Management  
System  
ISO 9001:2015  
ISO 14001:2015  
[www.tuv.com](http://www.tuv.com)  
ID 9108624624



## FOLDER 6 THREADED INSERTS

FOLDER 1 LATCHES

FOLDER 2 TENSION BANDS

FOLDER 3 HANDLES

FOLDER 4 HINGES

FOLDER 5 LOCKING DEVICES

FOLDER 6 THREADED INSERTS

KEENSERTS.....

RECOIL ..... R

SNEP-SELF LOCKING NUTS..... S-1

FOLDER 7 SUNDRIES

GENERAL TERMS AND CONDITIONS.....





## Recoil

### threaded inserts and tools





## FOLDER 6 **THREAD INSERTS**

**FOLDER 1 LATCHES**

**FOLDER 2 TENSION BANDS**

**FOLDER 3 HANDLE**

**FOLDER 4 HINGES**

**FOLDER 5 LOCKING DEVICES AND CATCHES**

**FOLDER 6 THREAD INSERTS**

**KEENSERTS .....**

**RECOIL..... R**

**INTRODUCTION ..... R-5**

**METRIC THREAD INSERTS .....**

- COARSE PITCH THREAD „FREE RUNNING“ ..... R-9
- COARSE PITCH THREAD „LOCKING“ ..... R-12
- FINE THREAD „FREE RUNNING“ ..... R-15
- FINE THREAD „LOCKING“ ..... R-18

**INCH THREAD INSERTS „AMERICAN“ .....**

- STANDARD COARSE THREAD (UNC) ..... R-20
- STANDARD FINE THREAD (UNF) ..... R-23
- COARSE THREAD „LOCKING“ (UNC) ..... R-26
- FINE THREAD „LOCKING“ (UNF) ..... R-29
- STANDARD THREAD (NPT)/ SPECIAL SIZE ..... R-32

**INCH THREAD INSERTS „BRITISH“ .....**

- STANDARD COARSE THREAD (BSW/ WITHWORTH- GEWINDE) ..... R-33
- STANDARD FINE THREAD (BSF) ..... R-35



## „Recoil“

### Inserts, tools and repair-kits

- STANDARD THREAD (BA) ..... R-36
- STANDARD THREAD (BSC)/ STANDARD THREAD (8 TPI/ UN) ..... R-37
- STANDARD PIPE THREAD (BSP)/ SPECIAL SIZE ..... R-38

#### REPAIR- KITS.....

- METRIC (-STANDARD,- FINE,- X-FINE) ..... R-39
- INCH (BSF, BSW, BSC/BRASS, BA, BSP, UNC, UNF, NPT, 8TPI UN, SPECIAL SIZE) ..... R-41

#### COMBI REPAIR- KITS .....

- METRIC/ INCH ..... R-47
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#### REFILL PACKAGES „METRIC“ .....

- STANDARD ..... R-49
- FINE, X-FINE..... R-50

#### REFILL PACKAGES „INCH-BRITISH“ .....

- BSF, BSW..... R-51
- BSC/ BRASS, BA, BSP..... R-52

#### REFILL PACKAGES „INCH-AMERICAN“ .....

- UNC ..... R-53
- UNF..... R-54
- NPT, SPECIAL SIZE ..... R-55

#### THREAD INSERTS „TAPED- METRIC“ .....

- STANDARD ..... R-56
- „LOCKING“ ..... R-57

#### THREAD INSERTS „TAPED- INCH“ .....

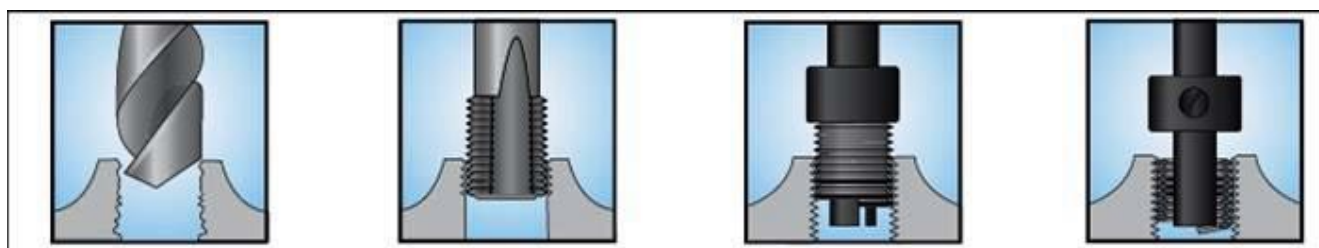
- STANDARD (UNC)..... R-58
- STANDARD (UNF) ..... R-59
- „LOCKING“ (UNC)..... R-60
- „LOCKING“ (UNF) ..... R-61

## „Recoil“ Inserts, tools and repair-kits

### Introduction

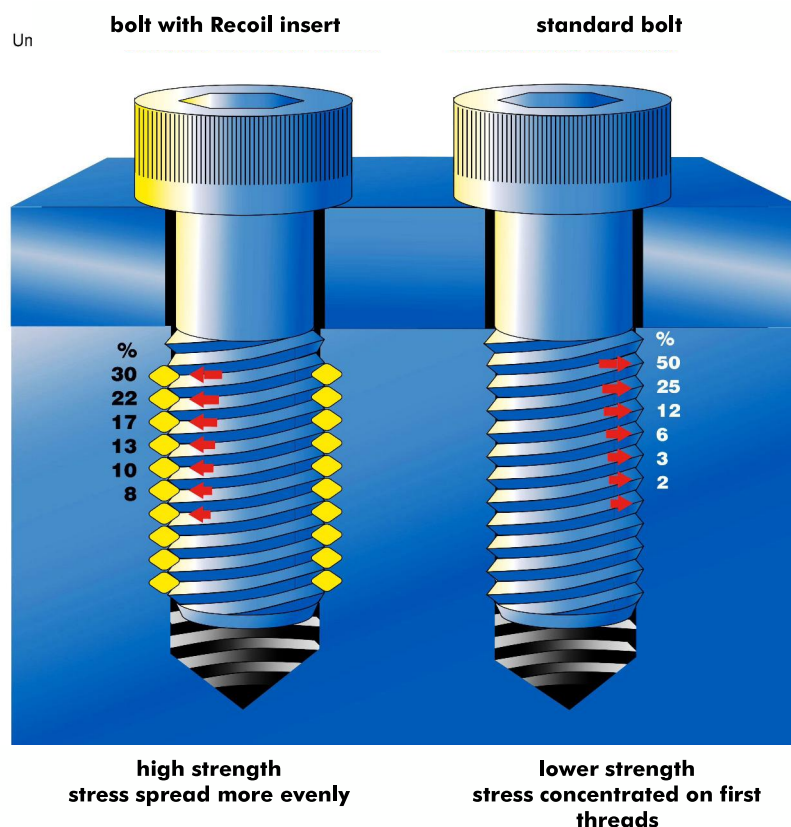
The Recoil system are used for repairing damaged screw threads or creating strong new threads.

- A superior thread with great holding power
- Most cost effective method of repair
- Returns thread to the original size
- Generally stronger than the original female thread



### Reinforcement of thread

This improved strength allows to select a fastener based on the minimum strength of the bolt, smaller diameters and shorter thread lengths confidently even in low strength materials such as magnesium or aluminium alloys.

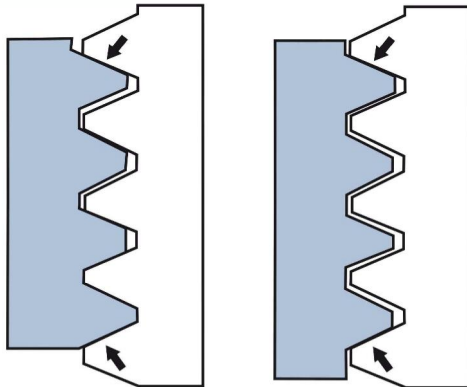


## „Recoil“

### Inserts, tools and repair-kits

## Pitch and Angle error compensation

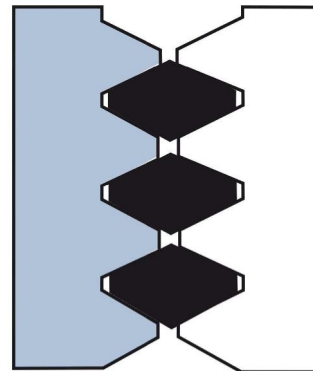
### Problems



angle error

pitch error

### Solution



Recoil compensation effect

### Typical thread and angle errors may cause:

- limited contact point
- poor flank contact between bolt to parent thread
- unequal distribution of bolt load over engaged threads
- failure of threaded components when loaded

### Recoil-inserts reduce thread pitch - and angle errors to provide:

- greater fastener strength
- greater contact area
- equally distributed load over all tapped threads
- reduced stress concentration thereby extending fatigue life

## Types of inserts

Uninstalled, Recoil inserts are greater in diameter than the tapped hole. During the assembly operation the diameter of the leading coils is reduced thereby permitting entry of the insert into the tapped hole.

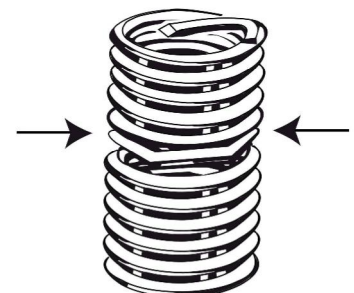
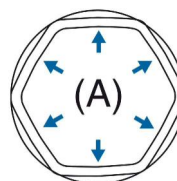
When the insert is installed at the correct depth, the coils expand and permanently retains the insert in place.



Recoil insert in „Semi installed“ position

- **„free running“** inserts provide a standard female thread.

- **„locking“** inserts After the installation of the fastener result a clamp effect to the bolt.  
For differentiation these are pigmented in **red**.



## „Recoil“

### Inserts, tools and repair-kits

## „Locking“ insert torque values

locking torque values for unified conform to NASM8846

### Metric coarse series

| Nominal<br>thread size | Locking torque |         |
|------------------------|----------------|---------|
|                        | Max            | Min     |
| M2.2 x 0.45            | 0.14 Nm        | 0.02 Nm |
| M2.5 x 0.45            | 0.23 Nm        | 0.05 Nm |
| M3 x 0.5               | 0.45 Nm        | 0.1 Nm  |
| M3.5 x 0.6             | 0.68 Nm        | 0.12 Nm |
| M4 x 0.7               | 0.9 Nm         | 0.15 Nm |
| M5 x 0.8               | 1.6 Nm         | 0.3 Nm  |
| M6 x 1                 | 3 Nm           | 0.4 Nm  |
| M7 x 1                 | 4.5 Nm         | 0.6 Nm  |
| M8 x 1.25              | 6 Nm           | 0.8 Nm  |
| M10 x 1.5              | 10.5 Nm        | 1.4 Nm  |
| M12 x 1.75             | 15.5 Nm        | 2.1 Nm  |
| M14 x 2                | 23.5 Nm        | 3 Nm    |
| M16 x 2                | 31.5 Nm        | 4.2 Nm  |
| M18 x 2.5              | 42 Nm          | 5.5 Nm  |
| M20 x 2.5              | 54 Nm          | 7 Nm    |
| M22 x 2.5              | 67.5 Nm        | 9 Nm    |
| M24 x 3                | 80 Nm          | 10.5 Nm |
| M27 x 3                | 94 Nm          | 12 Nm   |
| M30 x 3.5              | 108 Nm         | 14 Nm   |
| M33 x 3.5              | 122 Nm         | 15.5 Nm |
| M36 x 4                | 136 Nm         | 17.5 Nm |
| M39 x 4                | 150 Nm         | 19.5 Nm |

### Metric fine series

| Nominal<br>thread size | Locking torque |         |
|------------------------|----------------|---------|
|                        | Max            | Min     |
| M8 x 1                 | 6 Nm           | 0.8 Nm  |
| M10 x 1                | 10.5 Nm        | 1.4 Nm  |
| M10 x 1.25             | 10.5 Nm        | 1.4 Nm  |
| M12 x 1.25             | 15.5 Nm        | 2.1 Nm  |
| M12 x 1.5              | 15.5 Nm        | 2.1 Nm  |
| M14 x 1.5              | 23.5 Nm        | 3 Nm    |
| M16 x 1.5              | 31.5 Nm        | 4.2 Nm  |
| M18 x 1.5              | 42 Nm          | 5.5 Nm  |
| M20 x 1.5              | 54 Nm          | 7 Nm    |
| M22 x 1.5              | 67.5 Nm        | 9 Nm    |
| M18 x 2                | 42 Nm          | 5.5 Nm  |
| M20 x 2                | 54 Nm          | 7 Nm    |
| M22 x 2                | 67.5 Nm        | 9 Nm    |
| M24 x 2                | 80 Nm          | 10.5 Nm |
| M27 x 2                | 94 Nm          | 12 Nm   |
| M30 x 2                | 108 Nm         | 14 Nm   |
| M33 x 2                | 122 Nm         | 15.5 Nm |
| M36 x 2                | 136 Nm         | 17.5 Nm |
| M39 x 2                | 150 Nm         | 19.5 Nm |
| M36 x 3                | 136 Nm         | 17.5 Nm |
| M39 x 3                | 150 Nm         | 19.5 Nm |

### Unified coarse (UNC)

| Nominal<br>thread size | Locking torque |             |
|------------------------|----------------|-------------|
|                        | Max            | Min         |
| 2 (.086") - 56         | 20 oz.in       | 3 oz.in     |
| 3 (.099") - 40         | 32 oz.in       | 7 oz.in     |
| 4 (.112") - 40         | 48 oz.in       | 10 oz.in    |
| 5 (.125") - 40         | 75 oz.in       | 13 oz.in    |
| 6 (.138") - 32         | 6 lb.in        | 1.0 lb.in   |
| 8 (.164") - 32         | 9 lb.in        | 1.5 lb.in   |
| 10 (.190") - 24        | 13 lb.in       | 2.0 lb.in   |
| 12 (.216") - 24        | 24 lb.in       | 3.0 lb.in   |
| 1/4 (.250") - 20       | 30 lb.in       | 4.5 lb.in   |
| 5/16 (.3125") - 18     | 60 lb.in       | 7.5 lb.in   |
| 3/8 (.3750") - 18      | 80 lb.in       | 12.0 lb.in  |
| 7/16 (.4375") - 14     | 100 lb.in      | 16.5 lb.in  |
| 1/2 (.5000") - 13      | 150 lb.in      | 24.0 lb.in  |
| 9/16 (.5625") - 12     | 200 lb.in      | 30.0 lb.in  |
| 5/8 (.6250") - 11      | 300 lb.in      | 40.0 lb.in  |
| 3/4 (.7500") - 10      | 400 lb.in      | 60.0 lb.in  |
| 7/8 (.8750") - 9       | 600 lb.in      | 82.0 lb.in  |
| 1 (1.000") - 8         | 800 lb.in      | 110.0 lb.in |
| 1 1/8 (1.1250") - 7    | 900 lb.in      | 137.0 lb.in |
| 1 1/4 (1.1250") - 7    | 1000 lb.in     | 165.0 lb.in |
| 1 3/8 (1.3750") - 6    | 1150 lb.in     | 185.0 lb.in |
| 1 1/2 (1.5000") - 6    | 1350 lb.in     | 210.0 lb.in |

### Unified fine (UNF)

| Nominal<br>thread size | Locking torque |             |
|------------------------|----------------|-------------|
|                        | Max            | Min         |
| 3 (.099) - 56          | 32 oz.in       | 7oz.in      |
| 4 (.112) - 48          | 48 oz.in       | 10 oz.in    |
| 6 (.138) - 40          | 6 lb.in        | 1.0 lb.in   |
| 8 (.164) - 36          | 9 lb.in        | 1.5 lb.in   |
| 10 (.190) - 32         | 13lb.in        | 2.0 lb.in   |
| 1/4 (.2500) - 28       | 30 lb.in       | 3.5 lb.in   |
| 5/16 (.3125) - 24      | 60 lb.in       | 6.5 lb.in   |
| 3/8 (.3750) - 24       | 80 lb.in       | 9.5 lb.in   |
| 7/16 (.4375) - 20      | 100 lb.in      | 14.0 lb.in  |
| 1/2 (.5000) - 20       | 150 lb.in      | 18.0 lb.in  |
| 9/16 (.5625) - 18      | 200 lb.in      | 24.0 lb.in  |
| 5/8 (.6250) - 18       | 300 lb.in      | 32.0 lb.in  |
| 3/4 (.7500) - 16       | 400 lb.in      | 50.0 lb.in  |
| 7/8 (.8750) - 14       | 600 lb.in      | 70.0 lb.in  |
| 1 (1.0000) - 12        | 800 lb.in      | 90.0 lb.in  |
| 1 1/8 (1.1250) - 12    | 900 lb.in      | 117.0 lb.in |
| 1 1/4 (1.2500) - 12    | 1000 lb.in     | 143.0 lb.in |
| 1 3/8 (1.3750) - 12    | 1150 lb.in     | 165.0 lb.in |
| 1 1/2 (1.5000) - 12    | 1350 lb.in     | 190.0 lb.in |

## „Recoil“ Inserts, tools and repair-kits

### Recoil wire thread insert finishes and coatings

| Plating/ finish    | Part number suffix | Applicable process specification                                                           |
|--------------------|--------------------|--------------------------------------------------------------------------------------------|
| Silver plating     | <u>AG</u>          | <u>QQS-365 or AMS2411 or EN2786</u>                                                        |
| Cadmium plating    | <u>C</u>           | <u>QQP-416 or DEF STD 03-19</u>                                                            |
| Dry film lubricant | <u>D</u>           | <u>MIL-L-8937 or MIL-L-46010</u>                                                           |
| Red dye            | not applicable     | applied to all Recoil locking inserts for identification where called for by specification |

| Material type    | Max. temperature peak | Max. temperature continuous | Typical applications                                             | Coatings (see section on lubricants)                                                                                 |
|------------------|-----------------------|-----------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Stainless 1.4301 | 425°C                 | 315°C                       | most general applications in all materials                       | non-finish<br>dry film lubricant<br>silver<br>cadmium<br><br>cadmium<br>silver<br><br>silver<br>copper<br><br>silver |
| Stainless 1.4571 | 425°C                 | 315°C                       | improved corrosion resistance<br>salt water applications         |                                                                                                                      |
| Phosphor bronze  | 300°C                 | 235°C                       | copper parts<br>non magnetic/ low permeability applications      |                                                                                                                      |
| Inconel x 750    | 650°C                 | 550°C                       | aerospace/ turbines/ corrosive atmospheres/ high temperature use |                                                                                                                      |
| Nimonic alloy 90 | 650°C                 | 550°C                       | aerospace/ turbine applications                                  |                                                                                                                      |

## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M2 x 0,4           | 05022    | 1D     | 2,0  | 2,10                  | -             | 45024<br>45025<br>45026 |
|                    | 05023    | 1,5D   | 3,0  |                       |               |                         |
|                    | 05024    | 2D     | 4,0  |                       |               |                         |
|                    | 05025    | 2,5D   | 5,0  |                       |               |                         |
|                    | 05026    | 3D     | 6,0  |                       |               |                         |
| M2.2 x 0,4         | 05012    | 1D     | 2,2  | 2,30                  | -             | 45014<br>45015<br>45016 |
|                    | 05013    | 1,5D   | 3,3  |                       |               |                         |
|                    | 05014    | 2D     | 4,4  |                       |               |                         |
|                    | 05015    | 2,5D   | 5,5  |                       |               |                         |
|                    | 05016    | 3D     | 6,6  |                       |               |                         |
| M2.5 x 0,45        | 05252    | 1D     | 2,5  | 2,60                  | 3,08          | 45254<br>45255<br>45256 |
|                    | 05253    | 1,5D   | 3,8  |                       |               |                         |
|                    | 05254    | 2D     | 5,0  |                       |               |                         |
|                    | 05255    | 2,5D   | 6,3  |                       |               |                         |
|                    | 05256    | 3D     | 7,5  |                       |               |                         |
| M3 x 0,5           | 05032    | 1D     | 3,0  | 3,10                  | 3,65          | 45034<br>45035<br>45036 |
|                    | 05033    | 1,5D   | 4,5  |                       |               |                         |
|                    | 05034    | 2D     | 6,0  |                       |               |                         |
|                    | 05035    | 2,5D   | 7,5  |                       |               |                         |
|                    | 05036    | 3D     | 9,0  |                       |               |                         |
| M3.5 x 0,6         | 05352    | 1D     | 3,5  | 3,60                  | 4,28          | 45354<br>45355<br>45356 |
|                    | 05353    | 1,5D   | 5,3  |                       |               |                         |
|                    | 05354    | 2D     | 7,0  |                       |               |                         |
|                    | 05355    | 2,5D   | 8,8  |                       |               |                         |
|                    | 05356    | 3D     | 10,5 |                       |               |                         |
| M4 x 0,7           | 05042    | 1D     | 4,0  | 4,10                  | 4,91          | 45044<br>45045<br>45046 |
|                    | 05043    | 1,5D   | 6,0  |                       |               |                         |
|                    | 05044    | 2D     | 8,0  |                       |               |                         |
|                    | 05045    | 2,5D   | 10,0 |                       |               |                         |
|                    | 05046    | 3D     | 12,0 |                       |               |                         |
| M5 x 0,8           | 05052    | 1D     | 5,0  | 5,20                  | 6,04          | 45054<br>45055<br>45056 |
|                    | 05053    | 1,5D   | 7,5  |                       |               |                         |
|                    | 05054    | 2D     | 10,0 |                       |               |                         |
|                    | 05055    | 2,5D   | 12,5 |                       |               |                         |
|                    | 05056    | 3D     | 15,0 |                       |               |                         |
| M6 x 1,0           | 05062    | 1D     | 6,0  | 6,20                  | 7,30          | 45064<br>45065<br>45066 |
|                    | 05063    | 1,5D   | 9,0  |                       |               |                         |
|                    | 05064    | 2D     | 12,0 |                       |               |                         |
|                    | 05065    | 2,5D   | 15,0 |                       |               |                         |
|                    | 05066    | 3D     | 18,0 |                       |               |                         |
| M7 x 1,0           | 05072    | 1D     | 7,0  | 7,20                  | 8,30          | 45074<br>45075<br>45076 |
|                    | 05073    | 1,5D   | 10,5 |                       |               |                         |
|                    | 05074    | 2D     | 14,0 |                       |               |                         |
|                    | 05075    | 2,5D   | 17,5 |                       |               |                         |
|                    | 05076    | 3D     | 21,0 |                       |               |                         |
| M8 x 1,25          | 05082    | 1D     | 8,0  | 8,20                  |               | 45084<br>45085<br>45086 |
|                    | 05083    | 1,5D   | 12,0 |                       |               |                         |
|                    | 05084    | 2D     | 16,0 |                       |               |                         |
|                    | 05085    | 2,5D   | 20,0 |                       |               |                         |
|                    | 05086    | 3D     | 24,0 |                       |               |                         |





## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M9 x 1.25          | 05092    | 1D     | 9,0  | 9,30                  | 10,62         | 45094<br>45095<br>45096 |
|                    | 05093    | 1,5D   | 13,5 |                       |               |                         |
|                    | 05094    | 2D     | 18,0 |                       |               |                         |
|                    | 05095    | 2,5D   | 22,5 |                       |               |                         |
|                    | 05096    | 3D     | 27,0 |                       |               |                         |
| M10 x 1.5          | 05102    | 1D     | 10,0 | 10,30                 | 11,95         | 45104<br>45105<br>45106 |
|                    | 05103    | 1,5D   | 15,0 |                       |               |                         |
|                    | 05104    | 2D     | 20,0 |                       |               |                         |
|                    | 05105    | 2,5D   | 25,0 |                       |               |                         |
|                    | 05106    | 3D     | 30,0 |                       |               |                         |
| M11 x 1.5          | 05112    | 1D     | 11,0 | 11,30                 | 12,95         | 45114<br>45115<br>45116 |
|                    | 05113    | 1,5D   | 16,5 |                       |               |                         |
|                    | 05114    | 2D     | 22,0 |                       |               |                         |
|                    | 05115    | 2,5D   | 27,5 |                       |               |                         |
|                    | 05116    | 3D     | 33,0 |                       |               |                         |
| M12 x 1.75         | 05122    | 1D     | 12,0 | 12,40                 | 14,27         | 45124<br>45125<br>45126 |
|                    | 05123    | 1,5D   | 18,0 |                       |               |                         |
|                    | 05124    | 2D     | 24,0 |                       |               |                         |
|                    | 05125    | 2,5D   | 30,0 |                       |               |                         |
|                    | 05126    | 3D     | 36,0 |                       |               |                         |
| M14 x 2,0          | 05142    | 1D     | 14,0 | 14,40                 | 16,60         | 45144<br>45145<br>45146 |
|                    | 05143    | 1,5D   | 21,0 |                       |               |                         |
|                    | 05144    | 2D     | 28,0 |                       |               |                         |
|                    | 05145    | 2,5D   | 35,0 |                       |               |                         |
|                    | 05146    | 3D     | 42,0 |                       |               |                         |
| M15 x 2,0          | 05152    | 1D     | 15,0 | 15,50                 | 17,60         | 45154<br>45155<br>45156 |
|                    | 05153    | 1,5D   | 22,5 |                       |               |                         |
|                    | 05154    | 2D     | 30,0 |                       |               |                         |
|                    | 05155    | 2,5D   | 37,5 |                       |               |                         |
|                    | 05156    | 3D     | 45,0 |                       |               |                         |
| M16 x 2,0          | 05162    | 1D     | 16,0 | 16,50                 | 18,60         | 45164<br>45165<br>45166 |
|                    | 05163    | 1,5D   | 24,0 |                       |               |                         |
|                    | 05164    | 2D     | 32,0 |                       |               |                         |
|                    | 05165    | 2,5D   | 40,0 |                       |               |                         |
|                    | 05166    | 3D     | 48,0 |                       |               |                         |
| M18 x 2.5          | 05182    | 1D     | 18,0 | 18,50                 | 21,25         | 45184<br>45185<br>45186 |
|                    | 05183    | 1,5D   | 27,0 |                       |               |                         |
|                    | 05184    | 2D     | 36,0 |                       |               |                         |
|                    | 05185    | 2,5D   | 45,0 |                       |               |                         |
|                    | 05186    | 3D     | 54,0 |                       |               |                         |
| M20 x 2.5          | 05202    | 1D     | 20,0 | 20,50                 | 23,25         | 45204<br>45205<br>45206 |
|                    | 05203    | 1,5D   | 30,0 |                       |               |                         |
|                    | 05204    | 2D     | 40,0 |                       |               |                         |
|                    | 05205    | 2,5D   | 50,0 |                       |               |                         |
|                    | 05206    | 3D     | 60,0 |                       |               |                         |
| M22 x 2.5          | 05222    | 1D     | 22,0 | 22,50                 | 25,25         | 45224<br>45225<br>45226 |
|                    | 05223    | 1,5D   | 33,0 |                       |               |                         |
|                    | 05224    | 2D     | 44,0 |                       |               |                         |
|                    | 05225    | 2,5D   | 55,0 |                       |               |                         |
|                    | 05226    | 3D     | 66,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap                 |
|--------------------|----------|--------|-------|-----------------------|---------------|-------------------------------|
|                    |          | D      | mm    | spiral tap Ø<br>in mm | in mm         | art. no.                      |
| M24 x 3,0          | 05242    | 1D     | 24,0  | 24,80                 | 27,90         | 45244<br>45245<br>45246       |
|                    | 05243    | 1,5D   | 36,0  |                       |               |                               |
|                    | 05244    | 2D     | 48,0  |                       |               |                               |
|                    | 05245    | 2,5D   | 60,0  |                       |               |                               |
|                    | 05246    | 3D     | 72,0  |                       |               |                               |
| M27 x 3,0          | 05272    | 1D     | 27,0  | 27,50                 | 30,90         | 45274<br>45275<br>45276       |
|                    | 05273    | 1,5D   | 40,5  |                       |               |                               |
|                    | 05274    | 2D     | 54,0  |                       |               |                               |
|                    | 05275    | 2,5D   | 67,5  |                       |               |                               |
|                    | 02756    | 3D     | 81,0  |                       |               |                               |
| M30 x 3.5          | 05302    | 1D     | 30,0  | 30,50                 | 34,55         | 45304<br>45305<br>45306       |
|                    | 05303    | 1,5D   | 45,0  |                       |               |                               |
|                    | 05304    | 2D     | 60,0  |                       |               |                               |
|                    | 05305    | 2,5D   | 75,0  |                       |               |                               |
|                    | 05306    | 3D     | 90,0  |                       |               |                               |
| M30 x 3,0          | 05202-3  | 1D     | 30,0  | -                     | -             | 45304-3<br>45305-3<br>45306-3 |
|                    | 05203-3  | 1,5D   | 45,0  |                       |               |                               |
|                    | 05204-3  | 2D     | 60,0  |                       |               |                               |
|                    | 05205-3  | 2,5D   | 75,0  |                       |               |                               |
|                    | 05206-3  | 3D     | 90,0  |                       |               |                               |
| M36 x 4,0          | 05362    | 1D     | 36,0  | 36,50                 | 41,20         | 45364<br>45365<br>45366       |
|                    | 05363    | 1,5D   | 54,0  |                       |               |                               |
|                    | 05364    | 2D     | 72,0  |                       |               |                               |
|                    | 05365    | 2,5D   | 90,0  |                       |               |                               |
|                    | 05366    | 3D     | 108,0 |                       |               |                               |
| M39 x 4,0          | 05392    | 1D     | 39,0  | 39,50                 | 44,20         | 45394<br>45395<br>45396       |
|                    | 05393    | 1,5D   | 58,5  |                       |               |                               |
|                    | 05394    | 2D     | 78,0  |                       |               |                               |
|                    | 05395    | 2,5D   | 97,5  |                       |               |                               |
|                    | 05396    | 3D     | 117,0 |                       |               |                               |
| M42 x 4.5          | 05422    | 1D     | 42,0  | 43,00                 | 47,85         | 45424<br>45425<br>45426       |
|                    | 05423    | 1,5D   | 63,0  |                       |               |                               |
|                    | 05424    | 2D     | 84,0  |                       |               |                               |
| M42 x 4,0          | 05422-4  | 1D     | 42,0  | 43,00-                | -             | 45424-4<br>45425-4<br>45426-4 |
|                    | 05423-4  | 1,5D   | 63,0  |                       |               |                               |
|                    | 05424-4  | 2D     | 84,0  |                       |               |                               |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „locking“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap Ø<br>in mm | in mm         | art. no.                |
| M2 x 0,4           | 15022    | 1D     | 2,0  | 2,10                  | -             | 45024<br>45025<br>45026 |
|                    | 15023    | 1,5D   | 3,0  |                       |               |                         |
|                    | 15024    | 2D     | 4,0  |                       |               |                         |
|                    | 15025    | 2,5D   | 5,0  |                       |               |                         |
|                    | 15026    | 3D     | 6,0  |                       |               |                         |
| M2,2 -0,4          | 15012    | 1D     | 2,2  | 2,30                  | -             | 45014<br>45015<br>45016 |
|                    | 15013    | 1,5D   | 3,3  |                       |               |                         |
|                    | 15014    | 2D     | 4,4  |                       |               |                         |
|                    | 15015    | 2,5D   | 5,5  |                       |               |                         |
|                    | 15016    | 3D     | 6,6  |                       |               |                         |
| M2,5 x 0,45        | 15252    | 1D     | 2,5  | 2,60                  | 3,08          | 45254<br>45255<br>45256 |
|                    | 15253    | 1,5D   | 3,8  |                       |               |                         |
|                    | 15254    | 2D     | 5,0  |                       |               |                         |
|                    | 15255    | 2,5D   | 6,3  |                       |               |                         |
|                    | 15256    | 3D     | 7,5  |                       |               |                         |
| M3 x 0,5           | 15032    | 1D     | 3,0  | 3,10                  | 3,65          | 45034<br>45035<br>45036 |
|                    | 15033    | 1,5D   | 4,5  |                       |               |                         |
|                    | 15034    | 2D     | 6,0  |                       |               |                         |
|                    | 15035    | 2,5D   | 7,5  |                       |               |                         |
|                    | 15036    | 3D     | 9,0  |                       |               |                         |
| M3,5 x 0,6         | 15352    | 1D     | 3,5  | 3,60                  | 4,28          | 45354<br>45355<br>45356 |
|                    | 15353    | 1,5D   | 5,3  |                       |               |                         |
|                    | 15354    | 2D     | 7,0  |                       |               |                         |
|                    | 15355    | 2,5D   | 8,8  |                       |               |                         |
|                    | 15356    | 3D     | 10,5 |                       |               |                         |
| M4 x 0,7           | 15042    | 1D     | 4,0  | 4,10                  | 4,91          | 45044<br>45045<br>45046 |
|                    | 15043    | 1,5D   | 6,0  |                       |               |                         |
|                    | 15044    | 2D     | 8,0  |                       |               |                         |
|                    | 15045    | 2,5D   | 10,0 |                       |               |                         |
|                    | 15046    | 3D     | 12,0 |                       |               |                         |
| M5 x 0,8           | 15052    | 1D     | 5,0  | 5,20                  | 6,04          | 45054<br>45055<br>45056 |
|                    | 15053    | 1,5D   | 7,5  |                       |               |                         |
|                    | 15054    | 2D     | 10,0 |                       |               |                         |
|                    | 15055    | 2,5D   | 12,5 |                       |               |                         |
|                    | 15056    | 3D     | 15,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „locking“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M6 x 1,0           | 15062    | 1D     | 6,0  | 6,20                  | 7,30          | 45064<br>45065<br>45066 |
|                    | 15063    | 1,5D   | 9,0  |                       |               |                         |
|                    | 15064    | 2D     | 12,0 |                       |               |                         |
|                    | 15065    | 2,5D   | 15,0 |                       |               |                         |
|                    | 15066    | 3D     | 18,0 |                       |               |                         |
| M7 x 1,0           | 15072    | 1D     | 7,0  | 7,20                  | 8,30          | 45074<br>45075<br>45076 |
|                    | 15073    | 1,5D   | 10,5 |                       |               |                         |
|                    | 15074    | 2D     | 14,0 |                       |               |                         |
|                    | 15075    | 2,5D   | 17,5 |                       |               |                         |
|                    | 15076    | 3D     | 21,0 |                       |               |                         |
| M8 x 1,25          | 15082    | 1D     | 8,0  | 8,30                  | 9,62          | 45084<br>45085<br>45086 |
|                    | 15083    | 1,5D   | 12,0 |                       |               |                         |
|                    | 15084    | 2D     | 16,0 |                       |               |                         |
|                    | 15085    | 2,5D   | 20,0 |                       |               |                         |
|                    | 15086    | 3D     | 24,0 |                       |               |                         |
| M10 x 1,5          | 15102    | 1D     | 10,0 | 10,30                 | 11,95         | 45104<br>45105<br>45106 |
|                    | 15103    | 1,5D   | 15,0 |                       |               |                         |
|                    | 15104    | 2D     | 20,0 |                       |               |                         |
|                    | 15105    | 2,5D   | 25,0 |                       |               |                         |
|                    | 15106    | 3D     | 30,0 |                       |               |                         |
| M12 x 1,75         | 15122    | 1D     | 12,0 | 12,40                 | 14,27         | 45124<br>45125<br>45126 |
|                    | 15123    | 1,5D   | 18,0 |                       |               |                         |
|                    | 15124    | 2D     | 24,0 |                       |               |                         |
|                    | 15125    | 2,5D   | 30,0 |                       |               |                         |
|                    | 15126    | 3D     | 36,0 |                       |               |                         |
| M14 x 2,0          | 15142    | 1D     | 14,0 | 14,40                 | 16,60         | 45144<br>45145<br>45146 |
|                    | 15143    | 1,5D   | 21,0 |                       |               |                         |
|                    | 15144    | 2D     | 28,0 |                       |               |                         |
|                    | 15145    | 2,5D   | 35,0 |                       |               |                         |
|                    | 15146    | 3D     | 42,0 |                       |               |                         |
| M16 x 2,0          | 15162    | 1D     | 16,0 | 16,50                 | 18,60         | 45164<br>45165<br>45166 |
|                    | 15163    | 1,5D   | 24,0 |                       |               |                         |
|                    | 15164    | 2D     | 32,0 |                       |               |                         |
|                    | 15165    | 2,5D   | 40,0 |                       |               |                         |
|                    | 15166    | 3D     | 48,0 |                       |               |                         |
| M18 x 2,5          | 15182    | 1D     | 18,0 | 18,50                 | 21,25         | 45184<br>45185<br>45186 |
|                    | 15183    | 1,5D   | 27,0 |                       |               |                         |
|                    | 15184    | 2D     | 36,0 |                       |               |                         |
|                    | 15185    | 2,5D   | 45,0 |                       |               |                         |
|                    | 15186    | 3D     | 54,0 |                       |               |                         |
| M20 x 2,5          | 15202    | 1D     | 20,0 | 20,50                 | 23,25         | 45204<br>45205<br>45206 |
|                    | 15203    | 1,5D   | 30,0 |                       |               |                         |
|                    | 15204    | 2D     | 40,0 |                       |               |                         |
|                    | 15205    | 2,5D   | 50,0 |                       |               |                         |
|                    | 15206    | 3D     | 60,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „locking“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap                 |
|--------------------|----------|--------|-------|-----------------------|---------------|-------------------------------|
|                    |          | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                      |
| M22 x 2,5          | 15222    | 1D     | 22,0  | 22,50                 | 25,25         | 45224<br>45225<br>45226       |
|                    | 15223    | 1,5D   | 33,0  |                       |               |                               |
|                    | 15224    | 2D     | 44,0  |                       |               |                               |
|                    | 15225    | 2,5D   | 55,0  |                       |               |                               |
|                    | 15226    | 3D     | 66,0  |                       |               |                               |
| M24 x 3,0          | 15242    | 1D     | 24,0  | 24,80                 | 27,90         | 45244<br>45245<br>45246       |
|                    | 15243    | 1,5D   | 36,0  |                       |               |                               |
|                    | 15244    | 2D     | 48,0  |                       |               |                               |
|                    | 15245    | 2,5D   | 60,0  |                       |               |                               |
|                    | 15246    | 3D     | 72,0  |                       |               |                               |
| M27 x 3,0          | 15272    | 1D     | 27,0  | 27,50                 | 30,90         | 45274<br>45275<br>45276       |
|                    | 15273    | 1,5D   | 40,5  |                       |               |                               |
|                    | 15274    | 2D     | 54,0  |                       |               |                               |
|                    | 15275    | 2,5D   | 67,5  |                       |               |                               |
|                    | 15276    | 3D     | 81,0  |                       |               |                               |
| M30 x 3,5          | 15302    | 1D     | 30,0  | 30,50                 | 34,55         | 45304<br>45305<br>45306       |
|                    | 15303    | 1,5D   | 45,0  |                       |               |                               |
|                    | 15304    | 2D     | 60,0  |                       |               |                               |
|                    | 15305    | 2,5D   | 75,0  |                       |               |                               |
|                    | 15306    | 3D     | 90,0  |                       |               |                               |
| M30 x 3,0          | 15302-3  | 1D     | 30,0  | -                     | -             | 45304-3<br>45305-3<br>45306-3 |
|                    | 15303-3  | 1,5D   | 45,0  |                       |               |                               |
|                    | 15304-3  | 2D     | 60,0  |                       |               |                               |
|                    | 15305-3  | 2,5D   | 75,0  |                       |               |                               |
|                    | 15306-3  | 3D     | 90,0  |                       |               |                               |
| M36 x 4,0          | 15362    | 1D     | 36,0  | 36,50                 | 41,20         | 45364<br>45365<br>45366       |
|                    | 15363    | 1,5D   | 54,0  |                       |               |                               |
|                    | 15364    | 2D     | 72,0  |                       |               |                               |
|                    | 15365    | 2,5D   | 90,0  |                       |               |                               |
|                    | 15366    | 3D     | 108,0 |                       |               |                               |
| M39 x 4,0          | 15392    | 1D     | 39,0  | 39,50                 | 44,20         | 45394<br>45395<br>45396       |
|                    | 15393    | 1,5D   | 58,5  |                       |               |                               |
|                    | 15394    | 2D     | 78,0  |                       |               |                               |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts, „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M8 x 1,0           | 07082    | 1D     | 8,0  | 8,30                  | 9,30          | 47084<br>47085<br>47086 |
|                    | 07083    | 1,5D   | 12,0 |                       |               |                         |
|                    | 07084    | 2D     | 16,0 |                       |               |                         |
|                    | 07085    | 2,5D   | 20,0 |                       |               |                         |
|                    | 07086    | 3D     | 24,0 |                       |               |                         |
| M9 x 1,0           | 07092    | 1D     | 9,0  | 9,30                  | 10,30         | 47094<br>47095<br>47096 |
|                    | 07093    | 1,5D   | 13,5 |                       |               |                         |
|                    | 07094    | 2D     | 18,0 |                       |               |                         |
|                    | 07095    | 2,5D   | 22,5 |                       |               |                         |
|                    | 07096    | 3D     | 27,0 |                       |               |                         |
| M10 x 1.25         | 07102    | 1D     | 10,0 | 10,30                 | 11,62         | 47104<br>47105<br>47106 |
|                    | 07103    | 1,5D   | 15,0 |                       |               |                         |
|                    | 07104    | 2D     | 20,0 |                       |               |                         |
|                    | 07105    | 2,5D   | 25,0 |                       |               |                         |
|                    | 07106    | 3D     | 30,0 |                       |               |                         |
| M10 x 1,0          | 08102    | 1D     | 10,0 | 10,30                 | 11,30         | 48104<br>48105<br>48106 |
|                    | 08103    | 1,5D   | 15,0 |                       |               |                         |
|                    | 08104    | 2D     | 20,0 |                       |               |                         |
|                    | 08105    | 2,5D   | 25,0 |                       |               |                         |
|                    | 08106    | 3D     | 30,0 |                       |               |                         |
| M11 x 1.25         | 07112    | 1D     | 11,0 | -                     | -             | 47114<br>47115<br>47116 |
|                    | 07113    | 1,5D   | 16,5 |                       |               |                         |
|                    | 07114    | 2D     | 22,0 |                       |               |                         |
|                    | 07115    | 2,5D   | 27,5 |                       |               |                         |
|                    | 07116    | 3D     | 33,0 |                       |               |                         |
| M11 x 1,0          | 08112    | 1D     | 11,0 | 11,30                 | 12,30         | 48114<br>48115<br>48116 |
|                    | 08113    | 1,5D   | 16,5 |                       |               |                         |
|                    | 08114    | 2D     | 22,0 |                       |               |                         |
|                    | 08115    | 2,5D   | 27,5 |                       |               |                         |
|                    | 08116    | 3D     | 33,0 |                       |               |                         |
| M12 x 1.5          | 07122    | 1D     | 12,0 | 12,50                 | 13,95         | 47124<br>47125<br>47126 |
|                    | 07123    | 1,5D   | 18,0 |                       |               |                         |
|                    | 07124    | 2D     | 24,0 |                       |               |                         |
|                    | 07125    | 2,5D   | 30,0 |                       |               |                         |
|                    | 07126    | 3D     | 36,0 |                       |               |                         |
| M12 x 1.25         | 08122    | 1D     | 12,0 | 12,30                 | 13,62         | 48124<br>48125<br>48126 |
|                    | 08123    | 1,5D   | 18,0 |                       |               |                         |
|                    | 08124    | 2D     | 24,0 |                       |               |                         |
|                    | 08125    | 2,5D   | 30,0 |                       |               |                         |
|                    | 08126    | 3D     | 36,0 |                       |               |                         |
| M14 x 1.5          | 07142    | 1D     | 14,0 | 14,30                 | 15,95         | 47144<br>47145<br>47146 |
|                    | 07143    | 1,5D   | 21,0 |                       |               |                         |
|                    | 07144    | 2D     | 28,0 |                       |               |                         |
|                    | 07145    | 2,5D   | 35,0 |                       |               |                         |
|                    | 07146    | 3D     | 42,0 |                       |               |                         |
| M15 x 1.5          | 07152    | 1D     | 15,0 | 15,50                 | 16,95         | 47154<br>47155<br>47156 |
|                    | 07153    | 1,5D   | 22,5 |                       |               |                         |
|                    | 07154    | 2D     | 30,0 |                       |               |                         |
|                    | 07155    | 2,5D   | 37,5 |                       |               |                         |
|                    | 07156    | 3D     | 45,0 |                       |               |                         |





## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts, „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M16 x 1,5          | 07162    | 1D     | 16,0 | 16,50                 | 17,95         | 47164<br>47165<br>47166 |
|                    | 07163    | 1,5D   | 24,0 |                       |               |                         |
|                    | 07164    | 2D     | 32,0 |                       |               |                         |
|                    | 07165    | 2,5D   | 40,0 |                       |               |                         |
|                    | 07166    | 3D     | 48,0 |                       |               |                         |
| M18 x 2,0          | 07182    | 1D     | 18,0 | 18,50                 | 20,60         | 47184<br>47185<br>47186 |
|                    | 07183    | 1,5D   | 27,0 |                       |               |                         |
|                    | 07184    | 2D     | 36,0 |                       |               |                         |
|                    | 07185    | 2,5D   | 45,0 |                       |               |                         |
|                    | 07186    | 3D     | 54,0 |                       |               |                         |
| M18 x 1,5          | 08182    | 1D     | 18,0 | 18,50                 | 19,95         | 48184<br>48185<br>48186 |
|                    | 08183    | 1,5D   | 27,0 |                       |               |                         |
|                    | 08184    | 2D     | 36,0 |                       |               |                         |
|                    | 08185    | 2,5D   | 45,0 |                       |               |                         |
|                    | 08186    | 3D     | 54,0 |                       |               |                         |
| M20 x 2,0          | 07202    | 1D     | 20,0 | 20,50                 | 22,60         | 47204<br>47205<br>47206 |
|                    | 07203    | 1,5D   | 30,0 |                       |               |                         |
|                    | 07204    | 2D     | 40,0 |                       |               |                         |
|                    | 07205    | 2,5D   | 50,0 |                       |               |                         |
|                    | 07206    | 3D     | 60,0 |                       |               |                         |
| M20 x 1,5          | 08202    | 1D     | 20,0 | 20,50                 | 21,95         | 48204<br>48205<br>48206 |
|                    | 08203    | 1,5D   | 30,0 |                       |               |                         |
|                    | 08204    | 2D     | 40,0 |                       |               |                         |
|                    | 08205    | 2,5D   | 50,0 |                       |               |                         |
|                    | 08206    | 3D     | 60,0 |                       |               |                         |
| M22 x 2,0          | 07222    | 1D     | 22,0 | 22,50                 | 24,60         | 47224<br>47225<br>47226 |
|                    | 07223    | 1,5D   | 33,0 |                       |               |                         |
|                    | 07224    | 2D     | 44,0 |                       |               |                         |
|                    | 07225    | 2,5D   | 55,0 |                       |               |                         |
|                    | 07226    | 3D     | 66,0 |                       |               |                         |
| M22 x 1,5          | 08222    | 1D     | 22,0 | 22,50                 | 23,95         | 48224<br>48225<br>48226 |
|                    | 08223    | 1,5D   | 33,0 |                       |               |                         |
|                    | 08224    | 2D     | 44,0 |                       |               |                         |
|                    | 08225    | 2,5D   | 55,0 |                       |               |                         |
|                    | 08226    | 3D     | 66,0 |                       |               |                         |
| M24 x 2,0          | 07242    | 1D     | 24,0 | 24,50                 | 26,60         | 47244<br>47245<br>47246 |
|                    | 07243    | 1,5D   | 36,0 |                       |               |                         |
|                    | 07244    | 2D     | 48,0 |                       |               |                         |
|                    | 07245    | 2,5D   | 60,0 |                       |               |                         |
|                    | 07246    | 3D     | 72,0 |                       |               |                         |
| M24 x 1,5          | 08242    | 1D     | 24,0 | 24,50                 | 25,95         | 48244<br>48245<br>48246 |
|                    | 08243    | 1,5D   | 36,0 |                       |               |                         |
|                    | 08244    | 2D     | 48,0 |                       |               |                         |
|                    | 08245    | 2,5D   | 60,0 |                       |               |                         |
|                    | 08246    | 3D     | 72,0 |                       |               |                         |
| M26 x 1,5          | 08262    | 1D     | 26,0 | 26,50                 | 27,95         | -                       |
|                    | 08263    | 1,5D   | 39,0 |                       |               |                         |
|                    | 08264    | 2D     | 52,0 |                       |               |                         |
|                    | 08265    | 2,5D   | 65,0 |                       |               |                         |
|                    | 08266    | 3D     | 78,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts, „free running“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap Ø<br>in mm | in mm         | art. no.                |
| M27 x 2,0          | <b>07272</b> | 1D     | 27,0  | 27,50                 | 29,60         | 47274<br>47275<br>47276 |
|                    | <b>07273</b> | 1,5D   | 40,5  |                       |               |                         |
|                    | <b>07274</b> | 2D     | 54,0  |                       |               |                         |
|                    | <b>07275</b> | 2,5D   | 67,5  |                       |               |                         |
|                    | <b>07276</b> | 3D     | 81,0  |                       |               |                         |
| M30 x 2,0          | <b>07302</b> | 1D     | 30,0  | 30,50                 | 32,60         | 47304<br>47305<br>47306 |
|                    | <b>07303</b> | 1,5D   | 45,0  |                       |               |                         |
|                    | <b>07304</b> | 2D     | 60,0  |                       |               |                         |
|                    | <b>07305</b> | 2,5D   | 75,0  |                       |               |                         |
|                    | <b>07306</b> | 3D     | 90,0  |                       |               |                         |
| M30 x 1,5          | <b>08302</b> | 1D     | 30,0  | 30,50                 | 31,95         | 48304<br>48305<br>48306 |
|                    | <b>08303</b> | 1,5D   | 45,0  |                       |               |                         |
|                    | <b>08304</b> | 2D     | 60,0  |                       |               |                         |
|                    | <b>08305</b> | 2,5D   | 75,0  |                       |               |                         |
|                    | <b>08306</b> | 3D     | 90,0  |                       |               |                         |
| M36 x 3,0          | <b>07362</b> | 1D     | 36,0  | 37,00                 | 39,90         | 47364<br>47365<br>47366 |
|                    | <b>07363</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>07364</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>07365</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>07366</b> | 3D     | 108,0 |                       |               |                         |
| M36 x 1,5          | <b>08362</b> | 1D     | 36,0  | -                     | -             | 48364<br>48365<br>48366 |
|                    | <b>08363</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>08364</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>08365</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>08366</b> | 3D     | 108,0 |                       |               |                         |
| M39 x 3,0          | <b>07392</b> | 1D     | 39,0  | 40,00                 | 42,90         | 47394<br>47395<br>47396 |
|                    | <b>07393</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>07394</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>07395</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>07396</b> | 3D     | 117,0 |                       |               |                         |
| M39 x 2,0          | <b>08392</b> | 1D     | 39,0  | 39,50                 | 41,60         | 48394<br>48395<br>48396 |
|                    | <b>08393</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>08394</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>08395</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>08396</b> | 3D     | 117,0 |                       |               |                         |
| M42 x 3,0          | <b>07422</b> | 1D     | 42,0  | 43,00                 | 45,90         | 47424<br>47425<br>47426 |
|                    | <b>07423</b> | 1,5D   | 63,0  |                       |               |                         |
|                    | <b>07424</b> | 2D     | 84,0  |                       |               |                         |
| M42 x 2,0          | <b>08422</b> | 1D     | 42,0  | 42,50                 | 44,60         | 48424<br>48425<br>48426 |
|                    | <b>08423</b> | 1,5D   | 63,0  |                       |               |                         |
|                    | <b>08424</b> | 2D     | 84,0  |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „locking“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M8 -1,0            | 17082    | 1D     | 8,0  | 8,30                  | 9,30          | 47084<br>47085<br>47086 |
|                    | 17083    | 1,5D   | 12,0 |                       |               |                         |
|                    | 17084    | 2D     | 16,0 |                       |               |                         |
|                    | 17085    | 2,5D   | 20,0 |                       |               |                         |
|                    | 17086    | 3D     | 24,0 |                       |               |                         |
| M10 -1,25          | 17102    | 1D     | 10,0 | 10,40                 | 11,62         | 47104<br>47105<br>47106 |
|                    | 17103    | 1,5D   | 15,0 |                       |               |                         |
|                    | 17104    | 2D     | 20,0 |                       |               |                         |
|                    | 17105    | 2,5D   | 25,0 |                       |               |                         |
|                    | 17106    | 3D     | 30,0 |                       |               |                         |
| M12 -1,5           | 17122    | 1D     | 12,0 | 12,50                 | 13,95         | 47124<br>47125<br>47126 |
|                    | 17123    | 1,5D   | 18,0 |                       |               |                         |
|                    | 17124    | 2D     | 24,0 |                       |               |                         |
|                    | 17125    | 2,5D   | 30,0 |                       |               |                         |
|                    | 17126    | 3D     | 36,0 |                       |               |                         |
| M14 -1,5           | 17142    | 1D     | 14,0 | 14,50                 | 15,95         | 47144<br>47145<br>47146 |
|                    | 17143    | 1,5D   | 21,0 |                       |               |                         |
|                    | 17144    | 2D     | 28,0 |                       |               |                         |
|                    | 17145    | 2,5D   | 35,0 |                       |               |                         |
|                    | 17146    | 3D     | 42,0 |                       |               |                         |
| M16 -1,5           | 17162    | 1D     | 16,0 | 16,50                 | 17,95         | 47164<br>47165<br>47166 |
|                    | 17163    | 1,5D   | 24,0 |                       |               |                         |
|                    | 17164    | 2D     | 32,0 |                       |               |                         |
|                    | 17165    | 2,5D   | 40,0 |                       |               |                         |
|                    | 17166    | 3D     | 48,0 |                       |               |                         |
| M18 -2,0           | 17182    | 1D     | 18,0 | 18,50                 | 20,60         | 47184<br>47185<br>47186 |
|                    | 17183    | 1,5D   | 27,0 |                       |               |                         |
|                    | 17184    | 2D     | 36,0 |                       |               |                         |
|                    | 17185    | 2,5D   | 45,0 |                       |               |                         |
|                    | 17186    | 3D     | 54,0 |                       |               |                         |
| M20 -2,0           | 17202    | 1D     | 20,0 | 20,50                 | 22,60         | 47204<br>47205<br>47206 |
|                    | 17103    | 1,5D   | 30,0 |                       |               |                         |
|                    | 17104    | 2D     | 40,0 |                       |               |                         |
|                    | 17105    | 2,5D   | 50,0 |                       |               |                         |
|                    | 17106    | 3D     | 60,0 |                       |               |                         |
| M22 -2,0           | 17222    | 1D     | 22,0 | 22,50                 | 24,60         | 47224<br>47225<br>47226 |
|                    | 17223    | 1,5D   | 33,0 |                       |               |                         |
|                    | 17224    | 2D     | 44,0 |                       |               |                         |
|                    | 17225    | 2,5D   | 55,0 |                       |               |                         |
|                    | 17226    | 3D     | 66,0 |                       |               |                         |
| M24 -2,0           | 17242    | 1D     | 24,0 | 24,50                 | 26,60         | 47244<br>47245<br>47246 |
|                    | 17243    | 1,5D   | 36,0 |                       |               |                         |
|                    | 17244    | 2D     | 48,0 |                       |               |                         |
|                    | 17245    | 2,5D   | 60,0 |                       |               |                         |
|                    | 17246    | 3D     | 72,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### Metric coarse thread

Wire thread inserts „locking“

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                |
| M27 -2,0           | <b>17272</b> | 1D     | 27,0  | 27,50                 | 29,60         | 47274<br>47275<br>47276 |
|                    | <b>17273</b> | 1,5D   | 40,5  |                       |               |                         |
|                    | <b>17274</b> | 2D     | 54,0  |                       |               |                         |
|                    | <b>17275</b> | 2,5D   | 67,5  |                       |               |                         |
|                    | <b>17276</b> | 3D     | 81,0  |                       |               |                         |
| M30 -2,0           | <b>17302</b> | 1D     | 30,0  | 30,50                 | 32,60         | 47304<br>47305<br>47306 |
|                    | <b>17303</b> | 1,5D   | 45,0  |                       |               |                         |
|                    | <b>17304</b> | 2D     | 60,0  |                       |               |                         |
|                    | <b>17305</b> | 2,5D   | 75,0  |                       |               |                         |
|                    | <b>17306</b> | 3D     | 90,0  |                       |               |                         |
| M36 -3,0           | <b>17362</b> | 1D     | 36,0  | 37,00                 | 39,90         | 47364<br>47365<br>47366 |
|                    | <b>17363</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>17364</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>17365</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>17366</b> | 3D     | 108,0 |                       |               |                         |
| M39 -3,0           | <b>17392</b> | 1D     | 39,0  | 40,00                 | 42,90         | 47394<br>47395<br>47396 |
|                    | <b>17393</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>17394</b> | 2D     | 78,0  |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American- coarse thread

Wire thread inserts „standard“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 2 -56              | <b>03522</b> | 1D     | 2,0  | 2,3                   | 2,84          | 43524<br>43525<br>43526 |
|                    | <b>03523</b> | 1,5D   | 3,0  |                       |               |                         |
|                    | <b>03524</b> | 2D     | 4,0  |                       |               |                         |
|                    | <b>03525</b> | 2,5D   | 5,0  |                       |               |                         |
|                    | <b>03526</b> | 3D     | 6,0  |                       |               |                         |
| 3 -48              | <b>03532</b> | 1D     | 2,2  | 2,7                   | -             | 43534<br>43535<br>43536 |
|                    | <b>03533</b> | 1,5D   | 3,3  |                       |               |                         |
|                    | <b>03534</b> | 2D     | 4,4  |                       |               |                         |
|                    | <b>03535</b> | 2,5D   | 5,5  |                       |               |                         |
|                    | <b>03536</b> | 3D     | 6,6  |                       |               |                         |
| 4 -40              | <b>03542</b> | 1D     | 2,5  | 3,0                   | 3,67          | 43544<br>43545<br>43546 |
|                    | <b>03543</b> | 1,5D   | 3,8  |                       |               |                         |
|                    | <b>03544</b> | 2D     | 5,0  |                       |               |                         |
|                    | <b>03545</b> | 2,5D   | 6,3  |                       |               |                         |
|                    | <b>03546</b> | 3D     | 7,5  |                       |               |                         |
| 5 -40              | <b>03552</b> | 1D     | 3,0  | 3,4                   | 4,00          | 43554<br>43555<br>43556 |
|                    | <b>03553</b> | 1,5D   | 4,5  |                       |               |                         |
|                    | <b>03554</b> | 2D     | 6,0  |                       |               |                         |
|                    | <b>03555</b> | 2,5D   | 7,5  |                       |               |                         |
|                    | <b>03556</b> | 3D     | 9,0  |                       |               |                         |
| 6 -32              | <b>03562</b> | 1D     | 3,5  | 3,7                   | 4,54          | 43564<br>43565<br>43566 |
|                    | <b>03563</b> | 1,5D   | 5,3  |                       |               |                         |
|                    | <b>03564</b> | 2D     | 7,0  |                       |               |                         |
|                    | <b>03565</b> | 2,5D   | 8,8  |                       |               |                         |
|                    | <b>03566</b> | 3D     | 10,5 |                       |               |                         |
| 8 -32              | <b>03582</b> | 1D     | 4,0  | 4,4                   | 5,20          | 43584<br>43585<br>43586 |
|                    | <b>03583</b> | 1,5D   | 6,0  |                       |               |                         |
|                    | <b>03584</b> | 2D     | 8,0  |                       |               |                         |
|                    | <b>03585</b> | 2,5D   | 10,0 |                       |               |                         |
|                    | <b>03586</b> | 3D     | 12,0 |                       |               |                         |
| 10 -24             | <b>03602</b> | 1D     | 5,0  | 5,0                   | 6,20          | 43604<br>43605<br>43606 |
|                    | <b>03603</b> | 1,5D   | 7,5  |                       |               |                         |
|                    | <b>03604</b> | 2D     | 10,0 |                       |               |                         |
|                    | <b>03605</b> | 2,5D   | 12,5 |                       |               |                         |
|                    | <b>03606</b> | 3D     | 15,0 |                       |               |                         |
| 12 -24             | <b>03622</b> | 1D     | 6,0  | 5,8                   | 6,86          | 43624<br>43625<br>43626 |
|                    | <b>03623</b> | 1,5D   | 9,0  |                       |               |                         |
|                    | <b>03624</b> | 2D     | 12,0 |                       |               |                         |
|                    | <b>03625</b> | 2,5D   | 15,0 |                       |               |                         |
|                    | <b>03626</b> | 3D     | 18,0 |                       |               |                         |
| 1/4 -20            | <b>03042</b> | 1D     | 7,0  | 6,7                   | 8,00          | 43044<br>43045<br>43046 |
|                    | <b>03043</b> | 1,5D   | 10,5 |                       |               |                         |
|                    | <b>03044</b> | 2D     | 14,0 |                       |               |                         |
|                    | <b>03045</b> | 2,5D   | 17,5 |                       |               |                         |
|                    | <b>03046</b> | 3D     | 21,0 |                       |               |                         |
| 5/16 -18           | <b>03052</b> | 1D     | 8,0  | 8,3                   | 9,77          | 43054<br>43055<br>43056 |
|                    | <b>03053</b> | 1,5D   | 12,0 |                       |               |                         |
|                    | <b>03054</b> | 2D     | 16,0 |                       |               |                         |
|                    | <b>03055</b> | 2,5D   | 20,0 |                       |               |                         |
|                    | <b>03056</b> | 3D     | 24,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American- coarse thread

Wire thread inserts „standard“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 3/8 -16            | <b>03062</b> | 1D     | 10,0 | 9,9                   | 11,59         | 43064<br>43065<br>43066 |
|                    | <b>03063</b> | 1,5D   | 15,0 |                       |               |                         |
|                    | <b>03064</b> | 2D     | 20,0 |                       |               |                         |
|                    | <b>03065</b> | 2,5D   | 25,0 |                       |               |                         |
|                    | <b>03066</b> | 3D     | 30,0 |                       |               |                         |
| 7/16 -14           | <b>03072</b> | 1D     | 11,0 | 11,5                  | 13,47         | 43074<br>43075<br>43076 |
|                    | <b>03073</b> | 1,5D   | 16,5 |                       |               |                         |
|                    | <b>03074</b> | 2D     | 22,0 |                       |               |                         |
|                    | <b>03075</b> | 2,5D   | 27,5 |                       |               |                         |
|                    | <b>03076</b> | 3D     | 33,0 |                       |               |                         |
| 1/2 -13            | <b>03082</b> | 1D     | 11,0 | 13,0                  | 15,24         | 43084<br>43085<br>43086 |
|                    | <b>03083</b> | 1,5D   | 16,5 |                       |               |                         |
|                    | <b>03084</b> | 2D     | 22,0 |                       |               |                         |
|                    | <b>03085</b> | 2,5D   | 27,5 |                       |               |                         |
|                    | <b>03086</b> | 3D     | 33,0 |                       |               |                         |
| 9/16 -12           | <b>03092</b> | 1D     | 14,0 | 14,5                  | 17,04         | 43094<br>43095<br>43096 |
|                    | <b>03093</b> | 1,5D   | 21,0 |                       |               |                         |
|                    | <b>03094</b> | 2D     | 28,0 |                       |               |                         |
|                    | <b>03095</b> | 2,5D   | 35,0 |                       |               |                         |
|                    | <b>03096</b> | 3D     | 42,0 |                       |               |                         |
| 5/8 -11            | <b>03102</b> | 1D     | 15,0 | 16,5                  | 18,88         | 43104<br>43105<br>43106 |
|                    | <b>03103</b> | 1,5D   | 22,5 |                       |               |                         |
|                    | <b>03104</b> | 2D     | 30,0 |                       |               |                         |
|                    | <b>03105</b> | 2,5D   | 37,5 |                       |               |                         |
|                    | <b>03106</b> | 3D     | 45,0 |                       |               |                         |
| 11/16 -11          | <b>03102</b> | 1D     | 16,0 | -                     | -             | 43114<br>43115<br>43116 |
|                    | <b>03103</b> | 1,5D   | 24,0 |                       |               |                         |
|                    | <b>03104</b> | 2D     | 32,0 |                       |               |                         |
|                    | <b>03105</b> | 2,5D   | 40,0 |                       |               |                         |
|                    | <b>03106</b> | 3D     | 48,0 |                       |               |                         |
| 3/4 -10            | <b>03122</b> | 1D     | 18,0 | 19,80                 | 22,35         | 43124<br>43125<br>43126 |
|                    | <b>03123</b> | 1,5D   | 27,0 |                       |               |                         |
|                    | <b>03124</b> | 2D     | 36,0 |                       |               |                         |
|                    | <b>03125</b> | 2,5D   | 45,0 |                       |               |                         |
|                    | <b>03126</b> | 3D     | 54,0 |                       |               |                         |
| 7/8 -9             | <b>03142</b> | 1D     | 22,0 | 23,0                  | 25,89         | 43144<br>43145<br>43146 |
|                    | <b>03143</b> | 1,5D   | 33,0 |                       |               |                         |
|                    | <b>03144</b> | 2D     | 44,0 |                       |               |                         |
|                    | <b>03145</b> | 2,5D   | 55,0 |                       |               |                         |
|                    | <b>03146</b> | 3D     | 66,0 |                       |               |                         |
| 1" -8              | <b>03162</b> | 1D     | 24,0 | 26,0                  | 29,53         | 43164<br>43165<br>43166 |
|                    | <b>03163</b> | 1,5D   | 36,0 |                       |               |                         |
|                    | <b>03164</b> | 2D     | 48,0 |                       |               |                         |
|                    | <b>03165</b> | 2,5D   | 60,0 |                       |               |                         |
|                    | <b>03166</b> | 3D     | 72,0 |                       |               |                         |





## „Recoil“

### Inserts, tools and repair-kits

#### American- coarse thread

Wire thread inserts „standard“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 1 1/8 -7           | <b>03182</b> | 1D     | 26,0  | 29,5                  | 33,29         | 43184<br>43185<br>43186 |
|                    | <b>03183</b> | 1,5D   | 39,0  |                       |               |                         |
|                    | <b>03184</b> | 2D     | 52,0  |                       |               |                         |
|                    | <b>03185</b> | 2,5D   | 65,0  |                       |               |                         |
|                    | <b>03186</b> | 3D     | 78,0  |                       |               |                         |
| 1 1/4 -7           | <b>03202</b> | 1D     | 30,0  | 33,0                  | 36,46         | 43204<br>43205<br>43206 |
|                    | <b>03203</b> | 1,5D   | 45,0  |                       |               |                         |
|                    | <b>03204</b> | 2D     | 60,0  |                       |               |                         |
|                    | <b>03205</b> | 2,5D   | 75,0  |                       |               |                         |
|                    | <b>03206</b> | 3D     | 90,0  |                       |               |                         |
| 1 3/8 -7           | <b>03222</b> | 1D     | 36,0  | -                     | -             | 43224<br>43225<br>43226 |
|                    | <b>03223</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>03224</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>03225</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>03226</b> | 3D     | 108,0 |                       |               |                         |
| 1 1/2 -6           | <b>03242</b> | 1D     | 39,0  | 39,0                  | 43,60         | 43244<br>43245<br>43246 |
|                    | <b>03243</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>03244</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>03245</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>03246</b> | 3D     | 117,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American- fine thread

Wire thread inserts „standard“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. nr.                |
| 3 -56              | 04532    | 1D     | 2,2  | 2,70                  | -             | 44534<br>44535<br>44536 |
|                    | 04533    | 1,5D   | 3,3  |                       |               |                         |
|                    | 04534    | 2D     | 4,4  |                       |               |                         |
|                    | 04535    | 2,5D   | 5,5  |                       |               |                         |
|                    | 04536    | 3D     | 6,6  |                       |               |                         |
| 4 -48              | 04542    | 1D     | 2,5  | 3,0                   | 3,53          | 44544<br>44545<br>44546 |
|                    | 04543    | 1,5D   | 3,8  |                       |               |                         |
|                    | 04544    | 2D     | 5,0  |                       |               |                         |
|                    | 04545    | 2,5D   | 6,3  |                       |               |                         |
|                    | 04546    | 3D     | 7,5  |                       |               |                         |
| 6 -40              | 04562    | 1D     | 3,5  | 3,7                   | 4,33          | 44564<br>44565<br>44566 |
|                    | 04563    | 1,5D   | 5,3  |                       |               |                         |
|                    | 04564    | 2D     | 7,0  |                       |               |                         |
|                    | 04565    | 2,5D   | 8,8  |                       |               |                         |
|                    | 04566    | 3D     | 10,5 |                       |               |                         |
| 8 -36              | 04582    | 1D     | 4,0  | 4,4                   | 5,08          | 44584<br>44585<br>44586 |
|                    | 04583    | 1,5D   | 6,0  |                       |               |                         |
|                    | 04584    | 2D     | 8,0  |                       |               |                         |
|                    | 04585    | 2,5D   | 10,0 |                       |               |                         |
|                    | 04586    | 3D     | 12,0 |                       |               |                         |
| 10 -32             | 04602    | 1D     | 5,0  | 5,1                   | 5,86          | 44604<br>44605<br>44606 |
|                    | 04603    | 1,5D   | 7,5  |                       |               |                         |
|                    | 04604    | 2D     | 10,0 |                       |               |                         |
|                    | 04605    | 2,5D   | 12,5 |                       |               |                         |
|                    | 04606    | 3D     | 15,0 |                       |               |                         |
| 1/4 -28            | 04042    | 1D     | 7,0  | 6,6                   | 7,53          | 44044<br>44045<br>44046 |
|                    | 04043    | 1,5D   | 10,5 |                       |               |                         |
|                    | 04044    | 2D     | 14,0 |                       |               |                         |
|                    | 04045    | 2,5D   | 17,5 |                       |               |                         |
|                    | 04046    | 3D     | 21,0 |                       |               |                         |
| 5/16 -24           | 04052    | 1D     | 8,0  | 8,2                   | 9,31          | 44054<br>44055<br>44056 |
|                    | 04053    | 1,5D   | 12,0 |                       |               |                         |
|                    | 04054    | 2D     | 16,0 |                       |               |                         |
|                    | 04055    | 2,5D   | 20,0 |                       |               |                         |
|                    | 04056    | 3D     | 24,0 |                       |               |                         |
| 3/8 -24            | 04062    | 1D     | 10,0 | 9,8                   | 10,90         | 44064<br>44065<br>44066 |
|                    | 04063    | 1,5D   | 15,0 |                       |               |                         |
|                    | 04064    | 2D     | 20,0 |                       |               |                         |
|                    | 04065    | 2,5D   | 25,0 |                       |               |                         |
|                    | 04066    | 3D     | 30,0 |                       |               |                         |
| 7/16 -20           | 04072    | 1D     | 11,0 | 11,5                  | 12,76         | 44074<br>44075<br>44076 |
|                    | 04073    | 1,5D   | 16,5 |                       |               |                         |
|                    | 04074    | 2D     | 22,0 |                       |               |                         |
|                    | 04075    | 2,5D   | 27,5 |                       |               |                         |
|                    | 04076    | 3D     | 33,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American –fine thread

Wire thread inserts „standard“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap                    |
|--------------------|----------|--------|------|-----------------------|---------------|----------------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                         |
| 1/2 -20            | 04082    | 1D     | 11,0 | 13,0                  | 14,35         | 44084<br>44085<br>44086          |
|                    | 04083    | 1,5D   | 16,5 |                       |               |                                  |
|                    | 04084    | 2D     | 22,0 |                       |               |                                  |
|                    | 04085    | 2,5D   | 27,5 |                       |               |                                  |
|                    | 04086    | 3D     | 33,0 |                       |               |                                  |
| 9/16 -18           | 04092    | 1D     | 14,0 | 14,5                  | 16,12         | 44094<br>44095<br>44096          |
|                    | 04093    | 1,5D   | 21,0 |                       |               |                                  |
|                    | 04094    | 2D     | 28,0 |                       |               |                                  |
|                    | 04095    | 2,5D   | 35,0 |                       |               |                                  |
|                    | 04096    | 3D     | 42,0 |                       |               |                                  |
| 5/8 -18            | 04102    | 1D     | 15,0 | 16,3                  | 17,71         | 44104<br>44105<br>44106          |
|                    | 04103    | 1,5D   | 22,5 |                       |               |                                  |
|                    | 04104    | 2D     | 30,0 |                       |               |                                  |
|                    | 04105    | 2,5D   | 37,5 |                       |               |                                  |
|                    | 04106    | 3D     | 45,0 |                       |               |                                  |
| 3/4 -16            | 04122    | 1D     | 18,0 | 19,5                  | 21,11         | 44124<br>44125<br>44126          |
|                    | 04123    | 1,5D   | 27,0 |                       |               |                                  |
|                    | 04124    | 2D     | 36,0 |                       |               |                                  |
|                    | 04125    | 2,5D   | 45,0 |                       |               |                                  |
|                    | 04126    | 3D     | 54,0 |                       |               |                                  |
| 7/8 -14            | 04142    | 1D     | 22,0 | 22,5                  | 24,58         | 44144<br>44145<br>44146          |
|                    | 04143    | 1,5D   | 33,0 |                       |               |                                  |
|                    | 04144    | 2D     | 44,0 |                       |               |                                  |
|                    | 04145    | 2,5D   | 55,0 |                       |               |                                  |
|                    | 04146    | 3D     | 66,0 |                       |               |                                  |
| 1" -12             | 04162    | 1D     | 24,0 | 26,0                  | 28,15         | 44164<br>44165<br>44166          |
|                    | 04163    | 1,5D   | 36,0 |                       |               |                                  |
|                    | 04164    | 2D     | 48,0 |                       |               |                                  |
|                    | 04165    | 2,5D   | 60,0 |                       |               |                                  |
|                    | 04166    | 3D     | 72,0 |                       |               |                                  |
| 1" -14             | 04162-1  | 1D     | 24,0 | 26,0                  | 27,76         | 44164-14<br>44165-14<br>44166-14 |
|                    | 04163-1  | 1,5D   | 36,0 |                       |               |                                  |
|                    | 04164-1  | 2D     | 48,0 |                       |               |                                  |
|                    | 04165-1  | 2,5D   | 60,0 |                       |               |                                  |
|                    | 04166-1  | 3D     | 72,0 |                       |               |                                  |
| 1 1/8 -12          | 04182    | 1D     | 26,0 | 29,5                  | 31,33         | 44184<br>44185<br>44186          |
|                    | 04183    | 1,5D   | 39,0 |                       |               |                                  |
|                    | 04184    | 2D     | 52,0 |                       |               |                                  |
|                    | 04185    | 2,5D   | 65,0 |                       |               |                                  |
|                    | 04186    | 3D     | 78,0 |                       |               |                                  |
| 1 1/4 -12          | 04202    | 1D     | 30,0 | 32,5                  | 34,50         | 44204<br>44205<br>44206          |
|                    | 04203    | 1,5D   | 45,0 |                       |               |                                  |
|                    | 04204    | 2D     | 60,0 |                       |               |                                  |
|                    | 04205    | 2,5D   | 75,0 |                       |               |                                  |
|                    | 04206    | 3D     | 90,0 |                       |               |                                  |



## „Recoil“

### Inserts, tools and repair-kits

#### American –fine thread

Wire thread inserts „standard“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 1 3/8 -12          | <b>04222</b> | 1D     | 36,0  | 36,0                  | 37,68         | 44224<br>44225<br>44226 |
|                    | <b>04223</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>04224</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>04225</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>04226</b> | 3D     | 108,0 |                       |               |                         |
| 1 1/2 - 12         | <b>04242</b> | 1D     | 39,0  | 39,0                  | 40,85         | 44244<br>44245<br>44246 |
|                    | <b>04243</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>04244</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>04245</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>04246</b> | 3D     | 117,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American thread

Wire thread inserts „locking“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 2 -56              | 13522    | 1D     | 2,0  | 2,3                   | 2,84          | 43524<br>43525<br>43526 |
|                    | 13523    | 1,5D   | 3,0  |                       |               |                         |
|                    | 13524    | 2D     | 4,05 |                       |               |                         |
|                    | 13525    | 2,5D   | 5,0  |                       |               |                         |
|                    | 13526    | 3D     | 6,0  |                       |               |                         |
| 3 -48              | 13532    | 1D     | 2,2  | 2,7                   |               | 43534<br>43535<br>43536 |
|                    | 13533    | 1,5D   | 3,3  |                       |               |                         |
|                    | 13534    | 2D     | 4,4  |                       |               |                         |
|                    | 13535    | 2,5D   | 5,5  |                       |               |                         |
|                    | 13536    | 3D     | 6,6  |                       |               |                         |
| 4 -40              | 13542    | 1D     | 2,5  | 3,0                   | 3,67          | 43544<br>43545<br>43546 |
|                    | 13543    | 1,5D   | 3,8  |                       |               |                         |
|                    | 13544    | 2D     | 5,0  |                       |               |                         |
|                    | 13545    | 2,5D   | 6,3  |                       |               |                         |
|                    | 13546    | 3D     | 7,5  |                       |               |                         |
| 5 -40              | 13552    | 1D     | 3,0  | 3,4                   | 4,00          | 43554<br>43555<br>43556 |
|                    | 13553    | 1,5D   | 4,5  |                       |               |                         |
|                    | 13554    | 2D     | 6,0  |                       |               |                         |
|                    | 13555    | 2,5D   | 7,5  |                       |               |                         |
|                    | 13556    | 3D     | 9,0  |                       |               |                         |
| 6 -32              | 13562    | 1D     | 3,5  | 3,7                   | 4,54          | 43564<br>43565<br>43566 |
|                    | 13563    | 1,5D   | 5,3  |                       |               |                         |
|                    | 13564    | 2D     | 7,0  |                       |               |                         |
|                    | 13565    | 2,5D   | 8,8  |                       |               |                         |
|                    | 13566    | 3D     | 10,5 |                       |               |                         |
| 8 -32              | 13582    | 1D     | 4,0  | 4,4                   | 5,20          | 43584<br>43585<br>43586 |
|                    | 13583    | 1,5D   | 6,0  |                       |               |                         |
|                    | 13584    | 2D     | 8,0  |                       |               |                         |
|                    | 13585    | 2,5D   | 10,0 |                       |               |                         |
|                    | 13586    | 3D     | 12,0 |                       |               |                         |
| 10 -24             | 13602    | 1D     | 5,0  | 5,0                   | 6,20          | 43604<br>43605<br>43606 |
|                    | 13603    | 1,5D   | 7,5  |                       |               |                         |
|                    | 13604    | 2D     | 10,0 |                       |               |                         |
|                    | 13605    | 2,5D   | 12,5 |                       |               |                         |
|                    | 13606    | 3D     | 15,0 |                       |               |                         |
| 12 -24             | 13622    | 1D     | 6,0  | 5,8                   | 6,86          | 43624<br>43625<br>43626 |
|                    | 13623    | 1,5D   | 9,0  |                       |               |                         |
|                    | 13624    | 2D     | 12,0 |                       |               |                         |
|                    | 13625    | 2,5D   | 15,0 |                       |               |                         |
|                    | 13626    | 3D     | 18,0 |                       |               |                         |
| 1/4 -20            | 13042    | 1D     | 7,0  | 6,7                   | 8,00          | 43044<br>43045<br>43046 |
|                    | 13043    | 1,5D   | 10,5 |                       |               |                         |
|                    | 13044    | 2D     | 14,0 |                       |               |                         |
|                    | 13045    | 2,5D   | 17,5 |                       |               |                         |
|                    | 13046    | 3D     | 21,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American thread

Wire thread inserts „locking“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 5/16 -18           | <b>13052</b> | 1D     | 8,0  | 8,3                   | 9,77          | 43054<br>43055<br>43056 |
|                    | <b>13053</b> | 1,5D   | 12,0 |                       |               |                         |
|                    | <b>13054</b> | 2D     | 16,0 |                       |               |                         |
|                    | <b>13055</b> | 2,5D   | 20,0 |                       |               |                         |
|                    | <b>13056</b> | 3D     | 24,0 |                       |               |                         |
| 3/8 -16            | <b>13062</b> | 1D     | 10,0 | 9,9                   | 11,59         | 43064<br>43065<br>43066 |
|                    | <b>13063</b> | 1,5D   | 15,0 |                       |               |                         |
|                    | <b>13064</b> | 2D     | 20,0 |                       |               |                         |
|                    | <b>13065</b> | 2,5D   | 25,0 |                       |               |                         |
|                    | <b>13066</b> | 3D     | 30,0 |                       |               |                         |
| 7/16 -14           | <b>13072</b> | 1D     | 11,0 | 11,5                  | 13,47         | 43074<br>43075<br>43076 |
|                    | <b>13073</b> | 1,5D   | 16,5 |                       |               |                         |
|                    | <b>13074</b> | 2D     | 22,0 |                       |               |                         |
|                    | <b>13075</b> | 2,5D   | 27,5 |                       |               |                         |
|                    | <b>13076</b> | 3D     | 33,0 |                       |               |                         |
| 1/2 -13            | <b>13082</b> | 1D     | 11,0 | 13,0                  | 15,24         | 43084<br>43085<br>43086 |
|                    | <b>13083</b> | 1,5D   | 16,5 |                       |               |                         |
|                    | <b>13084</b> | 2D     | 22,0 |                       |               |                         |
|                    | <b>13085</b> | 2,5D   | 27,5 |                       |               |                         |
|                    | <b>13086</b> | 3D     | 33,0 |                       |               |                         |
| 9/16 -12           | <b>13092</b> | 1D     | 14,0 | 14,5                  | 17,04         | 43094<br>43095<br>43096 |
|                    | <b>13093</b> | 1,5D   | 21,0 |                       |               |                         |
|                    | <b>13094</b> | 2D     | 28,0 |                       |               |                         |
|                    | <b>13095</b> | 2,5D   | 35,0 |                       |               |                         |
|                    | <b>13096</b> | 3D     | 42,0 |                       |               |                         |
| 5/8 -11            | <b>13102</b> | 1D     | 15,0 | 16,5                  | 18,88         | 43104<br>43105<br>43106 |
|                    | <b>13103</b> | 1,5D   | 22,5 |                       |               |                         |
|                    | <b>13104</b> | 2D     | 30,0 |                       |               |                         |
|                    | <b>13105</b> | 2,5D   | 37,5 |                       |               |                         |
|                    | <b>13106</b> | 3D     | 45,0 |                       |               |                         |
| 11/16 -11          | <b>13112</b> | 1D     | 16,0 |                       |               | -                       |
|                    | <b>13113</b> | 1,5D   | 24,0 |                       |               |                         |
|                    | <b>13114</b> | 2D     | 32,0 |                       |               |                         |
|                    | <b>13115</b> | 2,5D   | 40,0 |                       |               |                         |
|                    | <b>13116</b> | 3D     | 48,0 |                       |               |                         |
| 3/4 -10            | <b>13122</b> | 1D     | 18,0 | 19,8                  | 22,35         | 43124<br>43125<br>43126 |
|                    | <b>13123</b> | 1,5D   | 27,0 |                       |               |                         |
|                    | <b>13124</b> | 2D     | 36,0 |                       |               |                         |
|                    | <b>13125</b> | 2,5D   | 45,0 |                       |               |                         |
|                    | <b>13126</b> | 3D     | 54,0 |                       |               |                         |
| 7/8 -9             | <b>13142</b> | 1D     | 22,0 | 23,0                  | 25,89         | 43144<br>43145<br>43146 |
|                    | <b>13143</b> | 1,5D   | 33,0 |                       |               |                         |
|                    | <b>13144</b> | 2D     | 44,0 |                       |               |                         |
|                    | <b>13145</b> | 2,5D   | 55,0 |                       |               |                         |
|                    | <b>13146</b> | 3D     | 66,0 |                       |               |                         |





## „Recoil“

### Inserts, tools and repair-kits

#### American thread

Wire thread inserts „locking“ (UNC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 1" -8              | <b>13162</b> | 1D     | 24,0  | 26,0                  | 29,53         | 43164<br>43165<br>43166 |
|                    | <b>13163</b> | 1,5D   | 36,0  |                       |               |                         |
|                    | <b>13164</b> | 2D     | 48,0  |                       |               |                         |
|                    | <b>13165</b> | 2,5D   | 60,0  |                       |               |                         |
|                    | <b>13166</b> | 3D     | 72,0  |                       |               |                         |
| 1 1/8 -7           | <b>13182</b> | 1D     | 26,0  | 29,5                  | 33,29         | 43184<br>43185<br>43186 |
|                    | <b>13183</b> | 1,5D   | 39,0  |                       |               |                         |
|                    | <b>13184</b> | 2D     | 52,0  |                       |               |                         |
|                    | <b>13185</b> | 2,5D   | 65,0  |                       |               |                         |
|                    | <b>13186</b> | 3D     | 78,0  |                       |               |                         |
| 1 1/4 -7           | <b>13202</b> | 1D     | 30,0  | 33,0                  | 36,46         | 43204<br>43205<br>43206 |
|                    | <b>13203</b> | 1,5D   | 45,0  |                       |               |                         |
|                    | <b>13204</b> | 2D     | 60,0  |                       |               |                         |
|                    | <b>13205</b> | 2,5D   | 75,0  |                       |               |                         |
|                    | <b>13206</b> | 3D     | 90,0  |                       |               |                         |
| 1 3/8 -7           | <b>13222</b> | 1D     | 36,0  | -                     | -             | 43224<br>43225<br>43226 |
|                    | <b>13223</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>13224</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>13225</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>13226</b> | 3D     | 108,0 |                       |               |                         |
| 1 1/2 -6           | <b>13242</b> | 1D     | 39,0  | 39,0                  | 43,60         | 43244<br>43245<br>43246 |
|                    | <b>13243</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>13244</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>13245</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>13246</b> | 3D     | 117,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American fine thread

Wire thread inserts „locking“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 3 -56              | 14532    | 1D     | 2,2  | 2,65                  | -             | 44534                   |
|                    | 14533    | 1,5D   | 3,3  |                       |               | 44535                   |
|                    | 14534    | 2D     | 4,4  |                       |               | 44536                   |
| 4 -48              | 14542    | 1D     | 2,5  | 3,0                   | 3,53          | 44544                   |
|                    | 14543    | 1,5D   | 3,8  |                       |               | 44545                   |
|                    | 14544    | 2D     | 5,0  |                       |               | 44546                   |
| 6 -40              | 14562    | 1D     | 3,5  | 3,7                   | 4,33          | 44564                   |
|                    | 14563    | 1,5D   | 5,3  |                       |               | 44565                   |
|                    | 14564    | 2D     | 7,0  |                       |               | 44566                   |
| 8 -36              | 14582    | 1D     | 4,0  | 4,4                   | 5,08          | 44584                   |
|                    | 14583    | 1,5D   | 6,0  |                       |               | 44585                   |
|                    | 14584    | 2D     | 8,0  |                       |               | 44586                   |
| 10 -32             | 14602    | 1D     | 5,0  | 5,1                   | 5,86          | 44604<br>44605<br>44606 |
|                    | 14603    | 1,5D   | 7,5  |                       |               |                         |
|                    | 14604    | 2D     | 10,0 |                       |               |                         |
|                    | 14605    | 2,5D   | 12,5 |                       |               |                         |
|                    | 14606    | 3D     | 15,0 |                       |               |                         |
| 1/4 -28            | 14042    | 1D     | 7,0  | 6,6                   | 7,53          | 44044<br>44045<br>44046 |
|                    | 14043    | 1,5D   | 10,5 |                       |               |                         |
|                    | 14044    | 2D     | 14,0 |                       |               |                         |
|                    | 14045    | 2,5D   | 17,5 |                       |               |                         |
|                    | 14046    | 3D     | 21,0 |                       |               |                         |
| 5/16 -24           | 14052    | 1D     | 8,0  | 8,2                   | 9,31          | 44054<br>44055<br>44056 |
|                    | 14053    | 1,5D   | 12,0 |                       |               |                         |
|                    | 14054    | 2D     | 16,0 |                       |               |                         |
|                    | 14055    | 2,5D   | 20,0 |                       |               |                         |
|                    | 14056    | 3D     | 24,0 |                       |               |                         |
| 3/8 -24            | 14062    | 1D     | 10,0 | 9,8                   | 10,90         | 44064<br>44065<br>44066 |
|                    | 14063    | 1,5D   | 15,0 |                       |               |                         |
|                    | 14064    | 2D     | 20,0 |                       |               |                         |
|                    | 14065    | 2,5D   | 25,0 |                       |               |                         |
|                    | 14066    | 3D     | 30,0 |                       |               |                         |
| 7/16 -20           | 14072    | 1D     | 11,0 | 11,5                  | 12,76         | 44074<br>44075<br>44076 |
|                    | 14073    | 1,5D   | 16,5 |                       |               |                         |
|                    | 14074    | 2D     | 22,0 |                       |               |                         |
|                    | 14075    | 2,5D   | 27,5 |                       |               |                         |
|                    | 14076    | 3D     | 33,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### American fine thread

Wire thread inserts „locking“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap                    |
|--------------------|----------|--------|------|-----------------------|---------------|----------------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                         |
| 1/2 -20            | 14082    | 1D     | 11,0 | 13,0                  | 14,35         | 44084<br>44085<br>44086          |
|                    | 14083    | 1,5D   | 16,5 |                       |               |                                  |
|                    | 14084    | 2D     | 22,0 |                       |               |                                  |
|                    | 14085    | 2,5D   | 27,5 |                       |               |                                  |
|                    | 14086    | 3D     | 33,0 |                       |               |                                  |
| 9/16 -18           | 14092    | 1D     | 14,0 | 14,5                  | 16,12         | 44094<br>44095<br>44096          |
|                    | 14093    | 1,5D   | 21,0 |                       |               |                                  |
|                    | 14094    | 2D     | 28,0 |                       |               |                                  |
|                    | 14095    | 2,5D   | 35,0 |                       |               |                                  |
|                    | 14096    | 3D     | 42,0 |                       |               |                                  |
| 5/8 -18            | 14102    | 1D     | 15,0 | 16,3                  | 17,71         | 44104<br>44105<br>44106          |
|                    | 14103    | 1,5D   | 22,5 |                       |               |                                  |
|                    | 14104    | 2D     | 30,0 |                       |               |                                  |
|                    | 14105    | 2,5D   | 37,5 |                       |               |                                  |
|                    | 14106    | 3D     | 45,0 |                       |               |                                  |
| 3/4 -16            | 14122    | 1D     | 18,0 | 19,5                  | 21,11         | 44124<br>44125<br>44126          |
|                    | 14123    | 1,5D   | 27,0 |                       |               |                                  |
|                    | 14124    | 2D     | 36,0 |                       |               |                                  |
|                    | 14125    | 2,5D   | 45,0 |                       |               |                                  |
|                    | 14126    | 3D     | 54,0 |                       |               |                                  |
| 7/8 -14            | 14142    | 1D     | 22,0 | 22,5                  | 24,58         | 44144<br>44145<br>44146          |
|                    | 14143    | 1,5D   | 33,0 |                       |               |                                  |
|                    | 14144    | 2D     | 44,0 |                       |               |                                  |
|                    | 14145    | 2,5D   | 55,0 |                       |               |                                  |
|                    | 14146    | 3D     | 66,0 |                       |               |                                  |
| 1" -12             | 14162    | 1D     | 24,0 | 26,0                  | 28,15         | 44164<br>44165<br>44166          |
|                    | 14163    | 1,5D   | 36,0 |                       |               |                                  |
|                    | 14164    | 2D     | 48,0 |                       |               |                                  |
|                    | 14165    | 2,5D   | 60,0 |                       |               |                                  |
|                    | 14166    | 3D     | 72,0 |                       |               |                                  |
| 1" -14             | 14162-1  | 1D     | 24,0 | 26,0                  | 27,76         | 44164-14<br>44165-14<br>44166-14 |
|                    | 14163-1  | 1,5D   | 36,0 |                       |               |                                  |
|                    | 14164-1  | 2D     | 48,0 |                       |               |                                  |
|                    | 14165-1  | 2,5D   | 60,0 |                       |               |                                  |
|                    | 14166-1  | 3D     | 72,0 |                       |               |                                  |
| 1 1/8 -12          | 14182    | 1D     | 26,0 | 29,5                  | 31,33         | 44184<br>44185<br>44186          |
|                    | 14183    | 1,5D   | 39,0 |                       |               |                                  |
|                    | 14184    | 2D     | 52,0 |                       |               |                                  |
|                    | 14185    | 2,5D   | 65,0 |                       |               |                                  |
|                    | 14186    | 3D     | 78,0 |                       |               |                                  |
| 1 1/4 -12          | 14202    | 1D     | 30,0 | 32,5                  | 34,50         | 44204<br>44205<br>44206          |
|                    | 14203    | 1,5D   | 45,0 |                       |               |                                  |
|                    | 14204    | 2D     | 60,0 |                       |               |                                  |
|                    | 14205    | 2,5D   | 75,0 |                       |               |                                  |
|                    | 14206    | 3D     | 90,0 |                       |               |                                  |



## „Recoil“

### Inserts, tools and repair-kits

#### American fine thread

Wire thread inserts „locking“ (UNF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|-------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 1 3/8 -12          | <b>14222</b> | 1D     | 36,0  | 36,0                  | 37,68         | 44224<br>44225<br>44226 |
|                    | <b>14223</b> | 1,5D   | 54,0  |                       |               |                         |
|                    | <b>14224</b> | 2D     | 72,0  |                       |               |                         |
|                    | <b>14225</b> | 2,5D   | 90,0  |                       |               |                         |
|                    | <b>14226</b> | 3D     | 108,0 |                       |               |                         |
| 1 1/2 -12          | <b>14242</b> | 1D     | 39,0  | 39,0                  | 40,85         | 44244<br>44245<br>44246 |
|                    | <b>14243</b> | 1,5D   | 58,5  |                       |               |                         |
|                    | <b>14244</b> | 2D     | 78,0  |                       |               |                         |
|                    | <b>14245</b> | 2,5D   | 97,5  |                       |               |                         |
|                    | <b>14246</b> | 3D     | 117,0 |                       |               |                         |



#### American thread

Wire thread inserts (NPT)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap  |
|--------------------|--------------|--------|-------|-----------------------|---------------|----------------|
|                    |              | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.       |
| 1/8 -27            | <b>06023</b> | 1,5D   | 0,273 | -                     | -             | 46025<br>46026 |
| 1/4 -18            | <b>06043</b> | 1,5D   | 0,394 | -                     | -             | 46045<br>46046 |
| 3/8 -18            | <b>06063</b> | 1,5D   | 0,407 | -                     | -             | 46065<br>46066 |
| 1/2 -14            | <b>06083</b> | 1,5D   | 0,534 | -                     | -             | 46085<br>46086 |
| 3/4 -14            | <b>06123</b> | 1,5D   | 0,553 | -                     | -             | 46125<br>46126 |
| 1 -11 1/2          | <b>06163</b> | 1,5D   | 0,661 | -                     | -             | 46165<br>46166 |



**„Recoil“****Inserts, tools and repair-kits****Special size**

Wire thread inserts

| Thread<br>inner- Ø | Art. no.        | Length |    | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap        |
|--------------------|-----------------|--------|----|-----------------------|---------------|----------------------|
|                    |                 | D      | mm | spiral tap<br>Ø in mm | in mm         | art. no.             |
| 1/4 -24            | <b>04042-24</b> | 1D     |    | -                     | -             | 44044-24             |
|                    | <b>04043-24</b> | 1,5D   |    |                       |               | 44045-24<br>44046-24 |

**Special size**

Wire thread inserts

**Tap set** content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø   | Art. no.             | Length |    | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap                    |
|----------------------|----------------------|--------|----|-----------------------|---------------|----------------------------------|
|                      |                      | D      | mm | spiral tap<br>Ø in mm | in mm         | art. no.                         |
| 1/4 -32              | <b>04042-32</b>      | 1D     |    | 13,6                  | -             | 44044-32                         |
|                      | <b>04043-32</b>      | 1,5D   |    |                       |               | 44045-32<br>44046-32             |
| HARLEY<br>7/16 -16   | <b>04073-16</b>      |        |    | -                     | -             | 44074-16<br>44075-16<br>44076-16 |
| CUMMINS<br>11/16 -16 | <b>04110-16-1.25</b> |        |    | -                     | -             | 44114-16<br>44115-16<br>44116-16 |
| CARBY<br>7/8 -20     | <b>04140-20-.330</b> |        |    | -                     | -             | 44144-20<br>44145-20<br>44146-20 |
| 1" -20               | <b>04161-20-.325</b> |        |    | -                     | -             | 44165-16                         |

## „Recoil“

### Inserts, tools and repair-kits

#### British- coarse thread

Wire thread inserts „standard“ (BSW / Withworth-thread)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 1/8 -40            | 02022    | 1D     | -    | 3,4                   | 3,93          | 42024<br>42025<br>42026 |
|                    | 02023    | 1,5D   | -    |                       |               |                         |
|                    | 02024    | 2D     | -    |                       |               |                         |
|                    | 02025    | 2,5D   | -    |                       |               |                         |
|                    | 02026    | 3D     | -    |                       |               |                         |
| 3/16 -24           | 02032    | 1D     | -    | 5,0                   | 6,01          | 42034<br>42035<br>42036 |
|                    | 02033    | 1,5D   | -    |                       |               |                         |
|                    | 02034    | 2D     | -    |                       |               |                         |
|                    | 02035    | 2,5D   | -    |                       |               |                         |
|                    | 02036    | 3D     | -    |                       |               |                         |
| 1/4 -20            | 02042    | 1D     | 7,0  | 6,7                   | 7,84          | 42044<br>42045<br>42046 |
|                    | 02043    | 1,5D   | 10,5 |                       |               |                         |
|                    | 02044    | 2D     | 14,0 |                       |               |                         |
|                    | 02045    | 2,5D   | 17,5 |                       |               |                         |
|                    | 02046    | 3D     | 21,0 |                       |               |                         |
| 5/16 -18           | 02052    | 1D     | 8,0  | 8,3                   | 9,59          | 42054<br>42055<br>42056 |
|                    | 02053    | 1,5D   | 12,0 |                       |               |                         |
|                    | 02054    | 2D     | 16,0 |                       |               |                         |
|                    | 02055    | 2,5D   | 20,0 |                       |               |                         |
|                    | 02056    | 3D     | 24,0 |                       |               |                         |
| 3/8 -16            | 02062    | 1D     | 10,0 | 9,9                   | 11,39         | 42064<br>42065<br>42066 |
|                    | 02063    | 1,5D   | 15,0 |                       |               |                         |
|                    | 02064    | 2D     | 20,0 |                       |               |                         |
|                    | 02065    | 2,5D   | 25,0 |                       |               |                         |
|                    | 02066    | 3D     | 30,0 |                       |               |                         |
| 7/16 -14           | 02072    | 1D     | 11,0 | 11,5                  | 13,24         | 42074<br>42075<br>42076 |
|                    | 02073    | 1,5D   | 16,5 |                       |               |                         |
|                    | 02074    | 2D     | 22,0 |                       |               |                         |
|                    | 02075    | 2,5D   | 27,5 |                       |               |                         |
|                    | 02076    | 3D     | 33,0 |                       |               |                         |
| 1/2 -12            | 02082    | 1D     | 12,0 | 13,0                  | 15,17         | 42084<br>42085<br>42086 |
|                    | 02083    | 1,5D   | 18,0 |                       |               |                         |
|                    | 02084    | 2D     | 24,0 |                       |               |                         |
|                    | 02085    | 2,5D   | 30,0 |                       |               |                         |
|                    | 02086    | 3D     | 36,0 |                       |               |                         |
| 9/16 -12           | 02092    | 1D     | 14,0 | 15,0                  | 16,76         | 42094<br>42095<br>42096 |
|                    | 02093    | 1,5D   | 21,0 |                       |               |                         |
|                    | 02094    | 2D     | 28,0 |                       |               |                         |
|                    | 02095    | 2,5D   | 35,0 |                       |               |                         |
|                    | 02096    | 3D     | 42,0 |                       |               |                         |
| 5/8 -11            | 02102    | 1D     | 15,0 | 16,7                  | 18,57         | 42104<br>42105<br>42106 |
|                    | 02103    | 1,5D   | 22,5 |                       |               |                         |
|                    | 02104    | 2D     | 30,0 |                       |               |                         |
|                    | 02105    | 2,5D   | 37,5 |                       |               |                         |
|                    | 02106    | 3D     | 45,0 |                       |               |                         |





## „Recoil“

### Inserts, tools and repair-kits

#### British- coarse thread

Wire thread inserts „standard“ (BSW / Withworth-thread)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no.     | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|--------------|--------|------|-----------------------|---------------|-------------------------|
|                    |              | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 3/4 -10            | <b>02122</b> | 1D     | 18,0 | 20,0                  | 22,02         | 42124<br>42125<br>42126 |
|                    | <b>02123</b> | 1,5D   | 27,0 |                       |               |                         |
|                    | <b>02124</b> | 2D     | 36,0 |                       |               |                         |
|                    | <b>02125</b> | 2,5D   | 45,0 |                       |               |                         |
|                    | <b>02126</b> | 3D     | 54,0 |                       |               |                         |
| 7/8 -9             | <b>02142</b> | 1D     | 22,0 | 23,0                  | 25,52         | 42144<br>42145<br>42146 |
|                    | <b>02143</b> | 1,5D   | 33,0 |                       |               |                         |
|                    | <b>02144</b> | 2D     | 44,0 |                       |               |                         |
|                    | <b>02145</b> | 2,5D   | 55,0 |                       |               |                         |
|                    | <b>02146</b> | 3D     | 66,0 |                       |               |                         |
| 1" -8              | <b>02162</b> | 1D     | 24,0 | 26,5                  | -             | 42164<br>42165<br>42166 |
|                    | <b>02163</b> | 1,5D   | 36,0 |                       |               |                         |
|                    | <b>02164</b> | 2D     | 48,0 |                       |               |                         |
|                    | <b>02165</b> | 2,5D   | 60,0 |                       |               |                         |
|                    | <b>02166</b> | 3D     | 72,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### British- fine thread

Wire thread inserts „standard“ (BSF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 3/16 -32           | 00032    | 1D     | -    | 5,0                   | 5,71          | 40034<br>40035<br>40036 |
|                    | 00033    | 1,5D   | -    |                       |               |                         |
|                    | 00034    | 2D     | -    |                       |               |                         |
|                    | 00035    | 2,5D   | -    |                       |               |                         |
|                    | 00036    | 3D     | -    |                       |               |                         |
| 1/4 - 20           | 00042    | 1D     | 7,0  | 6,6                   | 7,51          | 40044<br>40045<br>40046 |
|                    | 00043    | 1,5D   | 10,5 |                       |               |                         |
|                    | 00044    | 2D     | 14,0 |                       |               |                         |
|                    | 00045    | 2,5D   | 17,5 |                       |               |                         |
|                    | 00046    | 3D     | 21,0 |                       |               |                         |
| 5/16 -22           | 00052    | 1D     | 8,0  | 8,3                   | 9,30          | 40054<br>40055<br>40056 |
|                    | 00053    | 1,5D   | 12,0 |                       |               |                         |
|                    | 00054    | 2D     | 16,0 |                       |               |                         |
|                    | 00055    | 2,5D   | 20,0 |                       |               |                         |
|                    | 00056    | 3D     | 24,0 |                       |               |                         |
| 3/8 -20            | 00062    | 1D     | 10,0 | 9,9                   | 11,02         | 40064<br>40065<br>40066 |
|                    | 00063    | 1,5D   | 15,0 |                       |               |                         |
|                    | 00064    | 2D     | 20,0 |                       |               |                         |
|                    | 00065    | 2,5D   | 25,0 |                       |               |                         |
|                    | 00066    | 3D     | 30,0 |                       |               |                         |
| 7/16 -18           | 00072    | 1D     | 11,0 | 11,5                  | 12,78         | 40074<br>40075<br>40076 |
|                    | 00073    | 1,5D   | 16,5 |                       |               |                         |
|                    | 00074    | 2D     | 22,0 |                       |               |                         |
|                    | 00075    | 2,5D   | 27,5 |                       |               |                         |
|                    | 00076    | 3D     | 33,0 |                       |               |                         |
| 1/2 -16            | 00082    | 1D     | 12,0 | 13,1                  | 14,57         | 40084<br>40085<br>40086 |
|                    | 00083    | 1,5D   | 18,0 |                       |               |                         |
|                    | 00084    | 2D     | 24,0 |                       |               |                         |
|                    | 00085    | 2,5D   | 30,0 |                       |               |                         |
|                    | 00086    | 3D     | 36,0 |                       |               |                         |
| 9/16 -16           | 00092    | 1D     | 14,0 | 14,8                  | 16,16         | 40094<br>40095<br>40096 |
|                    | 00093    | 1,5D   | 21,0 |                       |               |                         |
|                    | 00094    | 2D     | 28,0 |                       |               |                         |
|                    | 00095    | 2,5D   | 35,0 |                       |               |                         |
|                    | 00096    | 3D     | 42,0 |                       |               |                         |
| 5/8 -14            | 00102    | 1D     | 15,0 | 16,4                  | 18,01         | 40104<br>40105<br>40106 |
|                    | 00103    | 1,5D   | 22,5 |                       |               |                         |
|                    | 00104    | 2D     | 30,0 |                       |               |                         |
|                    | 00105    | 2,5D   | 37,5 |                       |               |                         |
|                    | 00106    | 3D     | 45,0 |                       |               |                         |
| 3/4 - 12           | 00122    | 1D     | 18,0 | 19,5                  | 21,53         | 40124<br>40125<br>40126 |
|                    | 00123    | 1,5D   | 27,0 |                       |               |                         |
|                    | 00124    | 2D     | 36,0 |                       |               |                         |
|                    | 00125    | 2,5D   | 45,0 |                       |               |                         |
|                    | 00126    | 3D     | 54,0 |                       |               |                         |



## „Recoil“

### Inserts, tools and repair-kits

#### British- fine thread

Wire threads inserts „standard“ (BSF)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|------|-----------------------|---------------|-------------------------|
|                    |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 7/8 -11            | 00142    | 1D     | 22,0 | 22,5                  | 24,94         | 40144<br>40145<br>40146 |
|                    | 00143    | 1,5D   | 33,0 |                       |               |                         |
|                    | 00144    | 2D     | 44,0 |                       |               |                         |
|                    | 00145    | 2,5D   | 55,0 |                       |               |                         |
|                    | 00146    | 3D     | 66,0 |                       |               |                         |
| 1" -10             | 00162    | 1D     | 24,0 | 26,0                  | 28,38         | 40164<br>40165<br>40166 |
|                    | 00163    | 1,5D   | 36,0 |                       |               |                         |
|                    | 00164    | 2D     | 48,0 |                       |               |                         |
|                    | 00165    | 2,5D   | 60,0 |                       |               |                         |
|                    | 00166    | 3D     | 72,0 |                       |               |                         |



#### British- thread

Wire thread inserts „standard“ (BA)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |    | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap           |
|--------------------|----------|--------|----|-----------------------|---------------|-------------------------|
|                    |          | D      | mm | spiral tap<br>Ø in mm | in mm         | art. no.                |
| 0BA                | 00502    | 1D     | -  | 6,2                   | 7,12          | 40504<br>40505<br>40506 |
|                    | 00503    | 1,5D   | -  |                       |               |                         |
|                    | 00504    | 2D     | -  |                       |               |                         |
|                    | 00505    | 2,5D   | -  |                       |               |                         |
|                    | 00506    | 3D     | -  |                       |               |                         |
| 1BA                | 00512    | 1D     | -  | 5,5                   | 6,31          | 40514<br>40515<br>40516 |
|                    | 00513    | 1,5D   | -  |                       |               |                         |
|                    | 00514    | 2D     | -  |                       |               |                         |
|                    | 00515    | 2,5D   | -  |                       |               |                         |
|                    | 00516    | 3D     | -  |                       |               |                         |
| 2BA                | 00522    | 1D     | -  | 4,9                   | 5,61          | 40524<br>40525<br>40526 |
|                    | 00523    | 1,5D   | -  |                       |               |                         |
|                    | 00524    | 2D     | -  |                       |               |                         |
|                    | 00525    | 2,5D   | -  |                       |               |                         |
|                    | 00526    | 3D     | -  |                       |               |                         |
| 4BA                | 00542    | 1D     | -  | 3,8                   | 4,35          | 40544<br>40545<br>40546 |
|                    | 00543    | 1,5D   | -  |                       |               |                         |
|                    | 00544    | 2D     | -  |                       |               |                         |
|                    | 00545    | 2,5D   | -  |                       |               |                         |
|                    | 00546    | 3D     | -  |                       |               |                         |
| 6BA                | 00562    | 1D     | -  | 2,9                   | 3,40          | 40564<br>40565<br>40566 |
|                    | 00563    | 1,5D   | -  |                       |               |                         |
|                    | 00564    | 2D     | -  |                       |               |                         |
|                    | 00565    | 2,5D   | -  |                       |               |                         |
|                    | 00566    | 3D     | -  |                       |               |                         |

## „Recoil“

### Inserts, tools and repair-kits

#### British- thread

Wire thread inserts „standard“ (BSC)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |    | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|--------------------|----------|--------|----|-----------------------|---------------|---------------|
|                    |          | D      | mm | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 5/16 -26           | 06502    | 1D     | -  | -                     | -             | 46504         |
|                    | 06503    | 1,5D   | -  |                       |               | 46505         |
|                    | 06504    | 2D     | -  |                       |               | 46506         |
| 3/8 -26            | 06602    | 1D     | -  | -                     | -             | 46604         |
|                    | 06603    | 1,5D   | -  |                       |               | 46605         |
|                    | 06604    | 2D     | -  |                       |               | 46606         |
| 7/16 -26           | 06702    | 1D     | -  | -                     | -             | 46704         |
|                    | 06703    | 1,5D   | -  |                       |               | 46705         |
|                    | 06704    | 2D     | -  |                       |               | 46706         |
| 1/2 -26            | 06802    | 1D     | -  | -                     | -             | 46804         |
|                    | 06803    | 1,5D   | -  |                       |               | 46805         |
|                    | 06804    | 2D     | -  |                       |               | 46806         |



#### British- thread

Wire thread inserts „standard“ 8 TPI (UN)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |    | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|--------------------|----------|--------|----|-----------------------|---------------|---------------|
|                    |          | D      | mm | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 1 1/8 -3           | 06182    | 1D     | -  | -                     | -             | -             |
|                    | 06183    | 1,5D   | -  |                       |               |               |
|                    | 06184    | 2D     | -  |                       |               |               |
| 1 1/4 -8           | 06202    | 1D     | -  | -                     | -             | 46204         |
|                    | 06203    | 1,5D   | -  |                       |               | 46205         |
|                    | 06204    | 2D     | -  |                       |               | 46206         |
| 1 3/8 -8           | 06222    | 1D     | -  | -                     | -             | 46224         |
|                    | 06223    | 1,5D   | -  |                       |               | 46225         |
|                    | 06224    | 2D     | -  |                       |               | 46226         |
| 1 1/2 -8           | 06242    | 1D     | -  | -                     | -             | 46244         |
|                    | 06243    | 1,5D   | -  |                       |               | 46245         |
|                    | 06244    | 2D     | -  |                       |               | 46246         |
| 1 5/8 -8           | 06262    | 1D     | -  | -                     | -             | 46264         |
|                    | 06263    | 1,5D   | -  |                       |               | 46265         |
|                    | 06264    | 2D     | -  |                       |               | 46266         |
| 1 3/4 -8           | 06282    | 1D     | -  | -                     | -             | 46284         |
|                    | 06283    | 1,5D   | -  |                       |               | 46285         |
|                    | 06284    | 2D     | -  |                       |               | 46286         |
| 1 7/8 -8           | 06302    | 1D     | -  | -                     | -             | 46304         |
|                    | 06303    | 1,5D   | -  |                       |               | 46305         |
|                    | 06304    | 2D     | -  |                       |               | 46306         |
| 2" -8              | 06322    | 1D     | -  | -                     | -             | 46324         |
|                    | 06323    | 1,5D   | -  |                       |               | 46325         |
|                    | 06324    | 2D     | -  |                       |               | 46326         |



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## „Recoil“

### Inserts, tools and repair-kits

#### British standart- pipe thread

Wire thread inserts „standard“ (BSP)

Tap set content:

- taper, intermediate and bottoming

| Thread<br>inner- Ø | Art. no. | Length |       | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|--------------------|----------|--------|-------|-----------------------|---------------|---------------|
|                    |          | D      | mm    | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 1/8 -28            | 01022    | 1D     | -     | 9,9                   | -             | 41024         |
|                    | 01023    | 1,5D   | 0,273 |                       |               | 41025         |
|                    | 01024    | 2D     | -     |                       |               | 41026         |
| 1/4 -19            | 01042    | 1D     | -     | 13,5                  | -             | 41044         |
|                    | 01043    | 1,5D   | 0,394 |                       |               | 41045         |
|                    | 01044    | 2D     | -     |                       |               | 41046         |
| 3/8 -19            | 01062    | 1D     | -     | 17,0                  | -             | 41064         |
|                    | 01063    | 1,5D   | 0,407 |                       |               | 41065         |
|                    | 01064    | 2D     | -     |                       |               | 41066         |
| 1/2 -14            | 01082    | 1D     | -     | 21,5                  | -             | 41084         |
|                    | 01083    | 1,5D   | 0,534 |                       |               | 41085         |
|                    | 01084    | 2D     | -     |                       |               | 41086         |
| 5/8 -14            | 01102    | 1D     | -     | 23,5                  | -             | 41104         |
|                    | 01103    | 1,5D   | -     |                       |               | 41105         |
|                    | 01104    | 2D     | -     |                       |               | 41106         |
| 3/4 -14            | 01122    | 1D     | -     | 27,0                  | -             | 41124         |
|                    | 01123    | 1,5D   | 0,553 |                       |               | 41125         |
|                    | 01124    | 2D     | -     |                       |               | 41126         |
| 1" -11             | 01162    | 1D     | -     | 33,5                  | -             | 41164         |
|                    | 01163    | 1,5D   | 0,661 |                       |               | 41165         |
|                    | 01164    | 2D     | -     |                       |               | 41166         |



## „Recoil“

### Inserts, tools and repair-kits

## Thread repair- kits

### „Metric“

#### Content:

- HSS special screw tap
- prewinder tool
- tappet remover
- inserts
- instructions



| Thread inner- Ø „metric“ | Art. no. | Inserts per kit | Core- Ø spiral tap Ø in mm |
|--------------------------|----------|-----------------|----------------------------|
| M2 -0,4                  | 35028    | 15              | 2,1                        |
| M2,2 -0,45               | 35018    | 15              | 2,3                        |
| M2,5 -0,45               | 35258    | 15              | 2,6                        |
| M3 -0,5                  | 35038    | 15              | 3,2                        |
| M3,5 -0,6                | 35358    | 10              | 3,7                        |
| M4 -0,7                  | 35048    | 15              | 4,2                        |
| M5 -0,8                  | 35058    | 15              | 5,2                        |
| M6 -1,0                  | 35068    | 15              | 6,3                        |
| M7 -1,0                  | 35078    | 10              | 7,3                        |
| M8 -1,25                 | 35088    | 15              | 8,3                        |
| M9 -1,25                 | 35098    | 15              | 9,4                        |
| M10 -1,5                 | 35108    | 10              | 10,4                       |
| M11 -1,5                 | 35118    | 5               | 11,5                       |
| M12 -1,75                | 35128    | 10              | 12,5                       |
| M13 -1,75                | 35138    | 6               | 13,5                       |
| M14 -2,0                 | 35148    | 6               | 14,5                       |
| M15 -2,0                 | 35158    | 6               | 15,5                       |
| M16 -2,0                 | 35168    | 6               | 16,5                       |
| M18 -2,5                 | 35188    | 6               | 18,8                       |
| M20 -2,5                 | 35208    | 6               | 20,8                       |
| M22 -2,5                 | 35228    | 5               | 22,8                       |
| M24 -3,0                 | 35248    | 5               | 24,8                       |
| M27 -3,0                 | 35278    | 5               | 28,0                       |
| M30 -3,5                 | 35308    | 5               | 30,5                       |
| M30 -3,0                 | 35308-3  | 5               | 31,0                       |
| M36 -4,0                 | 35368    | 4               | 37,0                       |
| M39 -4,0                 | 35698    | 5               | 40,0                       |
| M42 -4,5                 | 35428    | 5               | 43,0                       |
| M42 -4,0                 | 35428-4  | 4               | 43,0                       |





## „Recoil“

### Inserts, tools and repair-kits

## Thread repair- kits

### „Metric- fine“

#### Content:

- HSS special screw tap
- prewinder tool
- tappet remover
- inserts
- instructions

| Thread inner- Ø<br>„metric- fine“ | Art. no. | Inserts per kit |
|-----------------------------------|----------|-----------------|
| M8 -1,0                           | 37088    | 15              |
| M9 -1,0                           | 37098    | 10              |
| M10 -1,25                         | 37108    | 10              |
| M10 -1,25 x 25                    | 37108    | 10              |
| M11 -1,25                         | 37118    | 10              |
| M12 -1,5                          | 37128    | 10              |
| M13 -1,5                          | 37138    | 6               |
| M14 -1,5                          | 37148    | 6               |
| M15 -1,5                          | 37158    | 5               |
| M16 -1,5                          | 37168    | 6               |
| M18 -2,0                          | 37188    | 6               |
| M20 -2,0                          | 37208    | 6               |
| M22 -2,0                          | 37228    | 5               |
| M24 -2,0                          | 37248    | 5               |
| M27 -2,0                          | 37278    | 5               |
| M30 -2,0                          | 37308    | 5               |
| M36 -3,0                          | 37368    | 4               |
| M39 -3,0                          | 37398    | 5               |
| M42 -3,0                          | 37428    | 4               |



## Thread repair- kits

### „Metric- X- fine“

| Thread inner- Ø<br>„metric- X- fine“ | Art. no. | Inserts per kit |
|--------------------------------------|----------|-----------------|
| M10 -1,0                             | 38108    | 10              |
| M11 -1,0                             | 38118    | 10              |
| M12 -1,25                            | 38128    | 5               |
| M13 -1,25                            | 38138    | 6               |
| M14 -1,25                            | 38148    | 5               |
| M18 -1,5                             | 38188-1  | 6               |
| M20 -1,5                             | 38208    | 5               |
| M22 -1,5                             | 38228    | 5               |
| M24 -1,5                             | 38248    | 5               |
| M26 -1,5                             | 38268    | 5               |
| M27 -1,5                             | 38278    | 5               |
| M30 -1,5                             | 38308    | 5               |
| M36 -1,5                             | 38368    | 4               |
| M39 -2,0                             | 38398    | 5               |
| M42 -2,0                             | 38428    | 4               |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- kits

„Inch“- (BSF)

##### Content:

- HSS special screw tap standard
- inserts
- prewinder tool
- instructions

| Thread<br>inner- ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 3/16 -32                     | <b>30038</b> | 15                 |
| 1/4 -26                      | <b>30048</b> | 15                 |
| 5/16 -22                     | <b>30058</b> | 15                 |
| 3/8 -20                      | <b>30068</b> | 10                 |
| 7/16 -18                     | <b>30078</b> | 10                 |
| 1/2 -16                      | <b>30088</b> | 10                 |
| 9/16 -16                     | <b>30090</b> | 5                  |
| 5/8 -14                      | <b>30108</b> | 6                  |
| 3/4 -12                      | <b>30128</b> | 6                  |
| 7/8 -11                      | <b>30148</b> | 5                  |
| 1 -10                        | <b>30168</b> | 5                  |
| 1 1/4 -9                     | <b>30208</b> | 5                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- Kits

##### „Inch“- (BSW)

###### Content:

- HSS special screw tap standard
- inserts
- prewinder tool
- instructions

| Thread inner- ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 1/8 -40                | <b>32028</b> | 15              |
| 3/16 -24               | <b>32038</b> | 15              |
| 1/4 -20                | <b>32048</b> | 15              |
| 5/16 -18               | <b>32058</b> | 15              |
| 3/8 -16                | <b>32068</b> | 10              |
| 7/16 -14               | <b>32078</b> | 10              |
| 1/2 -12                | <b>32088</b> | 10              |
| 9/16 -12               | <b>32098</b> | 6               |
| 5/8 -11                | <b>32108</b> | 5               |
| 3/4 -10                | <b>32128</b> | 6               |
| 7/8 -9                 | <b>32148</b> | 5               |
| 1 -8                   | <b>32168</b> | 5               |
| 1 1/8 -7               | <b>32188</b> | 5               |
| 1 1/4 -7               | <b>32208</b> | 5               |
| 1 3/8 -6               | <b>32228</b> | 5               |
| 1 1/2 -6               | <b>32248</b> | 4               |



#### Thread repair- kits

##### „Inch“- (BSC/ BRASS)

| Thread inner- ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 5/16 -26               | <b>36508</b> | 15              |
| 3/8 -26                | <b>36608</b> | 10              |
| 7/16 -26               | <b>36708</b> | 10              |
| 1/2 -26                | <b>36808</b> | 10              |

## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- kits

##### „Inch“- (BA)

##### Content:

- HSS special screw tap standard
- inserts
- prewinder tool
- instructions

| Thread inner- Ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 0 BA                   | <b>30508</b> | 15              |
| 1 BA                   | <b>30518</b> | 10              |
| 2 BA                   | <b>30528</b> | 15              |
| 4 BA                   | <b>30548</b> | 15              |
| 6 BA                   | <b>30568</b> | 15              |



#### Thread repair- kits

##### „Inch“- (BSP)

| Thread inner- Ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 1/8 -28                | <b>31028</b> | 10              |
| 1/4 -19                | <b>31048</b> | 10              |
| 3/8 -19                | <b>31068</b> | 6               |
| 1/2 -14                | <b>31088</b> | 5               |
| 5/8 -14                | <b>31108</b> | 5               |
| 3/4 -14                | <b>31128</b> | 5               |
| 1 -11                  | <b>31168</b> | 5               |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- Kits

##### „Inch“- (UNC)

##### Content:

- HSS special screw tap
- prewinder tool
- tappet remover
- inserts
- instructions

| Thread inner- Ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 2 -56                  | <b>33528</b> | 15              |
| 3 -48                  | <b>33538</b> | 15              |
| 4 -40                  | <b>33548</b> | 15              |
| 5 -40                  | <b>33558</b> | 10              |
| 6 -32                  | <b>33568</b> | 15              |
| 8 -32                  | <b>33588</b> | 15              |
| 10 -24                 | <b>33608</b> | 15              |
| 12 -24                 | <b>33628</b> | 15              |
| 1/4 -20                | <b>33048</b> | 15              |
| 5/16 -18               | <b>33058</b> | 15              |
| 3/8 -16                | <b>33068</b> | 15              |
| 7/16 -14               | <b>33078</b> | 10              |
| 1/2 -13                | <b>33088</b> | 10              |
| 9/16 -12               | <b>33098</b> | 6               |
| 5/8 -11                | <b>33108</b> | 6               |
| 11/16 -11              | <b>33118</b> | 5               |
| 3/4 -10                | <b>33128</b> | 6               |
| 7/8 -9                 | <b>33148</b> | 5               |
| 1 -8                   | <b>33168</b> | 5               |
| 1 1/8 -7               | <b>33188</b> | 5               |
| 1 1/4 -7               | <b>33208</b> | 5               |
| 1 3/8 -6               | <b>33228</b> | 5               |
| 1 1/2 -6               | <b>33248</b> | 4               |





## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- kits

##### „Inch“- (UNF)

###### Content:

- HSS special screw tap
- prewinder tool
- tappet remover
- inserts
- instructions

| Thread inner- Ø „inch“ | Art. no. | Inserts per kit |
|------------------------|----------|-----------------|
| 3 -56                  | 34538    | 15              |
| 4 -48                  | 34548    | 15              |
| 6 -40                  | 34568    | 15              |
| 8 -36                  | 34588    | 15              |
| 10 -32                 | 34608    | 15              |
| 12 -28                 | 34628    | 10              |
| 1/4 -28                | 34048    | 15              |
| 5/16 -24               | 34058    | 15              |
| 3/8 -24                | 34068    | 15              |
| 7/16 -20               | 34078    | 10              |
| 1/2 -20                | 34088    | 10              |
| 9/16 -18               | 34098    | 6               |
| 5/8 -18                | 34108    | 6               |
| 3/4 -16                | 34128    | 6               |
| 7/8 -14                | 34148    | 5               |
| 1 -12                  | 34168    | 5               |
| 1 -14                  | 34168-14 | 5               |
| 1 1/8 -12              | 34188    | 5               |
| 1 1/4 -12              | 34208    | 5               |
| 1 3/8 -12              | 34228    | 3               |
| 1 1/2 -12              | 34248    | 3               |

#### Thread repair- kits

##### „Inch“- (NPT)

| Thread inner- Ø „inch“ | Art. no. | Inserts per kit |
|------------------------|----------|-----------------|
| 1/8 -27                | 36028    | 10              |
| 1/4 -18                | 36048    | 10              |
| 3/8 -18                | 36068    | 6               |
| 1/2 -14                | 36088    | 5               |
| 3/4 -14                | 36128    | 5               |
| 1 -11 1/2              | 36168    | 5               |





## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- kits

„Inch“- (8 TPI UN)

##### Content:

- HSS special screw tap
- prewinder tool
- tappet remover
- inserts
- instructions

| Thread inner- Ø „inch“ | Art. no.     | Inserts per kits |
|------------------------|--------------|------------------|
| 1 1/8 -8               | <b>36188</b> | 5                |
| 1 1/4 -8               | <b>36208</b> | 5                |
| 1 3/8 -8               | <b>36228</b> | 5                |
| 1 1/2 -8               | <b>36248</b> | 4                |
| 1 5/8 -8               | <b>36268</b> | 4                |
| 1 3/4 -8               | <b>36288</b> | 4                |
| 1 7/8 -8               | <b>36308</b> | 4                |
| 2 -8                   | <b>36328</b> | 4                |



#### Thread repair- kits

„Inch“- (special size)

| Thread inner- Ø „inch“ | Art. no.        | Inserts per kit |
|------------------------|-----------------|-----------------|
| UNEF                   |                 |                 |
| 1/4 -32                | <b>34040-32</b> | 10              |
| HARLEY                 |                 |                 |
| 1/4 -24                | <b>34040-24</b> | 10              |
| 7/16 -16               | <b>34070-16</b> | 10              |
| CARBURETTOR            |                 |                 |
| 7/8 -20                | <b>34140-20</b> | 10              |
| 1 -20                  | <b>34160-20</b> | 10              |
| CUMMINS- HEAD BOLT     |                 |                 |
| 11/16 -11              | <b>34110-16</b> | 10              |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- (combi kits)

„Inch“

##### Content:

- HSS special screw tap standard
- inserts
- prewinder tool
- instructions

| Thread type | Art. no.      | Inserts per kit           |
|-------------|---------------|---------------------------|
| BA          | <b>30504</b>  | 0, 1, 2, 4, 6             |
| BSF         | <b>30004R</b> | 1/4, 5/16, 3/8, 7/16, 1/2 |
| BSP         | <b>31004R</b> | 1/8, 1/4, 3/8, 1/2        |
| BSW         | <b>32004R</b> | 1/4, 5/16, 3/8, 7/16, 1/2 |
| UNC         | <b>33004R</b> | 1/4, 5/16, 3/8, 7/16, 1/2 |
| UNF         | <b>34004R</b> | 1/4, 5/16, 3/8, 7/16, 1/2 |
| BSC/BRASS   | <b>36001</b>  | 1/4, 5/16, 3/8, 7/16, 1/2 |
| NPT         | <b>36004</b>  | 1/8, 1/4, 3/8, 1/2        |



#### Thread repair- (combi kits)

„Metric“

| Thread type | Art. no.      | Inserts per kit                              |
|-------------|---------------|----------------------------------------------|
| metric      | <b>33005R</b> | M6, M8, M10, M12, M14 -1,25                  |
| metric      | <b>35003R</b> | M4, M5, M6, M8, M10                          |
| metric      | <b>35004R</b> | M5, M6, M8, M10, M12                         |
| metric      | <b>35005R</b> | M6, M8, M10, M12, M16                        |
| fine        | <b>37000R</b> | M8-1, M10-1, M10-1,25, M12-1,25, M12-1,5     |
| M/Cycle     | <b>38006R</b> | M6, M8, M10-1, M10-1,25, M12-1,25, M14-1,25  |
| OPE         | <b>38007R</b> | M5, M6, M8-1,25, M14-1,25, M1/4 -20, 5/16-18 |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread repair- (mini combi kits)

##### „Metric“

##### Content:

Per thread type 1x suitable tool

- HSS special screw tap standard
- Einsätze (3 different length equal thread sizes)
- prewinder tool
- instructions

| Thread type | Art. no. | Inserts per kit |
|-------------|----------|-----------------|
| Metrisch    | 35001    | M5, M6, M8      |

#### Thread repair- (mini combi kits)

##### „Inch“

| Thread type | Art. no. | Inserts per kit |
|-------------|----------|-----------------|
| UNC         | 33001    | 1/4, 5/16, 3/8  |
| UNF         | 34001    | 1/4, 5/16, 3/8  |

#### Bicycle treadle repair kit

##### „Left and right“

##### Content:

- 1x left special screw tap with guide lug
- 1x right special screw tap with guide lug
- 2x inserts (5 left/ 5 right)
- prewinder tool
- instructions

| Thread type | Art. no. | Inserts per kit                            |
|-------------|----------|--------------------------------------------|
| UNEF        | 34096-20 | 5 9/16-20x 1/2 (12,7mm) long left inserts  |
|             |          | 5 9/16-20x 1/2 (12,7mm) long right inserts |

## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „metric“

For repair- kits

Length of the inserts in the refill packages:

1,5x nominal diameter

exception: When the length is denoted extra.

| Thread<br>inner- ø<br>„metric“ | Art. no.       | Inserts<br>per kit |
|--------------------------------|----------------|--------------------|
| M2,0 -0,4                      | <b>25023</b>   | 10                 |
| M2,2 -0,45                     | <b>25013</b>   | 10                 |
| M2,5 -0,45                     | <b>25253</b>   | 10                 |
| M3 -0,5                        | <b>25033</b>   | 10                 |
| M3 -0,6                        | <b>25353</b>   | 10                 |
| M4 -0,7                        | <b>25043</b>   | 10                 |
| M5 -0,8                        | <b>25053</b>   | 10                 |
| M6 -1,0                        | <b>25063</b>   | 10                 |
| M7 -1,0                        | <b>25073</b>   | 10                 |
| M8 -1,25                       | <b>25083</b>   | 10                 |
| M9 -1,25                       | <b>25093</b>   | 10                 |
| M10 -1,5                       | <b>25103</b>   | 10                 |
| M10 -1,5X2D                    | <b>25104</b>   | 10                 |
| M11 -1,5                       | <b>25113</b>   | 10                 |
| M12 -1,75                      | <b>25123</b>   | 10                 |
| M13 -1,75                      | <b>25133</b>   | 5                  |
| M14 -2,0                       | <b>25143</b>   | 5                  |
| M15 -2,0                       | <b>25153</b>   | 5                  |
| M16 -2,0                       | <b>25163</b>   | 5                  |
| M18 -2,5                       | <b>25183</b>   | 5                  |
| M20 -2,5                       | <b>25203</b>   | 5                  |
| M22 -2,5                       | <b>25223</b>   | 3                  |
| M24 -3,0                       | <b>25243</b>   | 3                  |
| M27 -3,0                       | <b>25273</b>   | 1                  |
| M30 -3,5                       | <b>25303</b>   | 1                  |
| M30 -3,0                       | <b>25303-3</b> | 1                  |
| M36 -4,0                       | <b>25363</b>   | 1                  |
| M39 -4,0                       | <b>25393</b>   | 1                  |
| M42 -4,5                       | <b>25423</b>   | 1                  |
| M42 -4,0                       | <b>25423-4</b> | 1                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „metric- fine“  
For repair- kits

Length of the inserts in the refill packages:

1,5x nominal diameter

Exception: When the length is denoted extra.

| Thread<br>inner- Ø<br>„metric- fine“ | Art. no. | Inserts<br>per kit |
|--------------------------------------|----------|--------------------|
| M8 -1,0                              | 27083    | 10                 |
| M9 -1,0                              | 27093    | 10                 |
| M10 -1,25                            | 27103    | 10                 |
| M10 -1,25x25                         | 27105    | 10                 |
| M11 -1,25                            | 27113    | 10                 |
| M12 -1,5                             | 27123    | 10                 |
| M13 -1,5                             | 27133    | 5                  |
| M14 -1,5                             | 27143    | 5                  |
| M15 -1,5                             | 27153    | 5                  |
| M16 -1,5                             | 27163    | 5                  |
| M18 -2,0                             | 27183    | 5                  |
| M20 -2,0                             | 27203    | 5                  |
| M22 -2,0                             | 27223    | 3                  |
| M24 -2,0                             | 27243    | 3                  |
| M27 -2,0                             | 27273    | 1                  |
| M30 -2,0                             | 27303    | 1                  |
| M36 -3,0                             | 27363    | 1                  |
| M39 -3,0                             | 27393    | 1                  |
| M42 -3,0                             | 27423    | 1                  |



#### Refill packages

Wire thread inserts „metric- X- fine“  
For repair- kits

| thread<br>inner- Ø<br>„metric- X- fine“ | art. no.       | inserts<br>per kit |
|-----------------------------------------|----------------|--------------------|
| M10 -1,0                                | 28103          | 10                 |
| M11 -1,0                                | 28113          | 10                 |
| M12 -1,25                               | 28123          | 10                 |
| M13 -1,25                               | 28133          | 5                  |
| M14 -1,25                               | see spark plug |                    |
| M18 -1,5                                | 28183          | 5                  |
| M20 -1,5                                | 28203          | 5                  |
| M22 -1,5                                | 28223          | 3                  |
| M24 -1,5                                | 28243          | 3                  |
| M26 -1,5                                | 28263          | 1                  |
| M27 -1,5                                | 28273          | 1                  |
| M30 -1,5                                | 28303          | 1                  |
| M36 -1,5                                | 28363          | 1                  |
| M39 -2,0                                | 28393          | 1                  |
| M42 -2,0                                | 28423          | 1                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „inch“- (BSF)

For repair- kits

It could be inserted several inserts  
Successively; may be reduced with a pilot punch.

| Thread<br>inner- ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 3/16 -32                     | <b>20033</b> | 10                 |
| 1/4 -26                      | <b>20043</b> | 10                 |
| 5/16 -22                     | <b>20053</b> | 10                 |
| 3/8 -20                      | <b>20063</b> | 10                 |
| 7/16 -18                     | <b>20073</b> | 10                 |
| 1/2 -16                      | <b>20083</b> | 10                 |
| 9/16 -16                     | <b>20093</b> | 5                  |
| 5/8 -14                      | <b>20103</b> | 5                  |
| 3/4 -12                      | <b>20123</b> | 5                  |
| 7/8 -11                      | <b>20143</b> | 3                  |
| 1 -10                        | <b>10163</b> | 3                  |
| 1 1/4 -9                     | <b>20203</b> | 1                  |



#### Refill packages

Wire thread inserts „inch“- (BSW)

For repair- kits

| Thread<br>inner- ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 1/8 -40                      | <b>22023</b> | 10                 |
| 3/16 -24                     | <b>22033</b> | 10                 |
| 1/4 -20                      | <b>22043</b> | 10                 |
| 5/16 -18                     | <b>22053</b> | 10                 |
| 3/8 -16                      | <b>22063</b> | 10                 |
| 7/16 -14                     | <b>22073</b> | 10                 |
| 1/2 -12                      | <b>22083</b> | 10                 |
| 9/16 -12                     | <b>22093</b> | 5                  |
| 5/8 -11                      | <b>22103</b> | 5                  |
| 3/4 -10                      | <b>22123</b> | 5                  |
| 7/8 -9                       | <b>22143</b> | 3                  |
| 1 -8                         | <b>22163</b> | 3                  |



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## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „inch“- (BSC/BRASS)

For repair- kits

It could be inserted several inserts  
Successively; may be reduced with a pilot punch.

| Thread<br>inner- Ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 5/16 -26                     | <b>26503</b> | 10                 |
| 3/8 -26                      | <b>26603</b> | 10                 |
| 7/16 -26                     | <b>26703</b> | 10                 |
| 1/2 -26                      | <b>26803</b> | 10                 |



#### Refill packages

Wire thread inserts „inch“- (BA)

For repair- kits

| Thread<br>inner- Ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 0 BA                         | <b>20503</b> | 10                 |
| 1 BA                         | <b>20513</b> | 10                 |
| 2 BA                         | <b>20523</b> | 10                 |
| 4 BA                         | <b>20543</b> | 10                 |
| 6 BA                         | <b>20563</b> | 10                 |



#### Refill packages

Wire thread inserts „inch“- (BSP)

For repair- kits

| Thread<br>inner- Ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 1/8 -28                      | <b>21023</b> | 10                 |
| 1/4 -19                      | <b>21043</b> | 10                 |
| 3/8 -19                      | <b>21063</b> | 10                 |
| 1/2 -14                      | <b>21083</b> | 5                  |
| 5/8 -14                      | <b>21103</b> | 5                  |
| 3/4 -14                      | <b>21123</b> | 5                  |
| 1 -11                        | <b>21163</b> | 3                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „inch“- (UNC)

For repair- kits

It could be inserted several inserts  
Successively; may be reduced with a pilot punch.

| Thread<br>inner- ø<br>„inch“ | Art. no.     | Inserts<br>per kit |
|------------------------------|--------------|--------------------|
| 2 -56                        | <b>23523</b> | 10                 |
| 3 -48                        | <b>23533</b> | 10                 |
| 4 -40                        | <b>23543</b> | 10                 |
| 5 -40                        | <b>23553</b> | 10                 |
| 6 -32                        | <b>23563</b> | 10                 |
| 8 -32                        | <b>23583</b> | 10                 |
| 10 -24                       | <b>23603</b> | 10                 |
| 12 -24                       | <b>23623</b> | 10                 |
| 1/4 -20                      | <b>23043</b> | 10                 |
| 5/16 -18                     | <b>23053</b> | 10                 |
| 3/8 -16                      | <b>23063</b> | 10                 |
| 7/16 -14                     | <b>23073</b> | 10                 |
| 1/2 -13                      | <b>23083</b> | 10                 |
| 9/16 -12                     | <b>23093</b> | 5                  |
| 5/8 -11X1D                   | <b>23102</b> | 5                  |
| 5/8 -11                      | <b>23103</b> | 5                  |
| 11/16 -11                    | <b>23113</b> | 5                  |
| 3/4 -10                      | <b>23123</b> | 5                  |
| 7/8 -9                       | <b>23143</b> | 3                  |
| 1 -8                         | <b>23163</b> | 3                  |
| 1 1/8 -7                     | <b>23183</b> | 1                  |
| 1 1/4 -7                     | <b>23203</b> | 1                  |
| 1 3/8 -6                     | <b>23223</b> | 1                  |
| 1 1/2 -6                     | <b>23243</b> | 1                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „inch“- (UNF)

For repair- kits

It could be inserted several inserts successively ;may be reduced with a pilot punch.

| Thread<br>inner- ø<br>„inch“ | Art. no.        | Inserts<br>per kit |
|------------------------------|-----------------|--------------------|
| 3 -56                        | <b>24533</b>    | 10                 |
| 4 -48                        | <b>24543</b>    | 10                 |
| 6 -40                        | <b>24563</b>    | 10                 |
| 8 -36                        | <b>24583</b>    | 10                 |
| 10 -32                       | <b>24603</b>    | 10                 |
| 12 -28                       | <b>24623</b>    | 10                 |
| 1/4 -28                      | <b>24043</b>    | 10                 |
| 5/16 -24                     | <b>24053</b>    | 10                 |
| 3/8 -24                      | <b>24063</b>    | 10                 |
| 7/16 -20                     | <b>24073</b>    | 10                 |
| 1/2 -20                      | <b>24083</b>    | 10                 |
| 9/16 -18                     | <b>24093</b>    | 5                  |
| 5/8 -18                      | <b>24103</b>    | 5                  |
| 3/4 -16                      | <b>24123</b>    | 5                  |
| 7/8 -14                      | <b>24143</b>    | 3                  |
| 1 -12                        | <b>24163</b>    | 3                  |
| 1 -14                        | <b>24163-14</b> | 3                  |
| 1 1/8 -12                    | <b>24183</b>    | 1                  |
| 1 1/4 -12                    | <b>24203</b>    | 1                  |
| 1 3/8 -12                    | <b>24223</b>    | 1                  |
| 1 1/2 -12                    | <b>24243</b>    | 1                  |



## „Recoil“

### Inserts, tools and repair-kits

#### Refill packages

Wire thread inserts „inch“- (NPT)

For repair- kits

It could be inserted several inserts successively ;may be reduced with a pilot punch.

| Thread inner- ø „inch“ | Art. no.     | Inserts per kit |
|------------------------|--------------|-----------------|
| 1/8 -27                | <b>26023</b> | 10              |
| 1/4 -18                | <b>26043</b> | 10              |
| 3/8 -18                | <b>26063</b> | 10              |
| 1/2 -14                | <b>26083</b> | 5               |
| 3/4 -14                | <b>26123</b> | 5               |
| 1 -11 1/2              | <b>26163</b> | 5               |



#### Refill packages

Wire thread inserts „inch“- (special size)

For repair- kits

| Thread inner- ø „inch“ | Art. no.        | Inserts per kit |
|------------------------|-----------------|-----------------|
| UNEF                   |                 |                 |
| 1/4 -32                | <b>24043-32</b> | 10              |
| HARLEY                 |                 |                 |
| 1/4 -24                | <b>24043-24</b> | 10              |
| 7/16 -16               | <b>24073-16</b> | 10              |



## „Recoil“

### Inserts, tools and repair-kits

## Spark plug

### „Thread- repair- kits“

#### Content:

- HSS special screw tap
- prewinder tool
- tapped remover
- inserts
- instruction

| Thread inner- Ø | Art. no.     | Inserts per kit |
|-----------------|--------------|-----------------|
| M10 -1,0        | <b>38108</b> | 10              |
| M12 -1,25       | <b>38128</b> | 10              |
| M14 -1,25*      | <b>38148</b> | 10              |
| M14 -1,25       | <b>38148</b> | 5               |
| M18 -1,5        | <b>38188</b> | 5               |

\*incl. insert extracting tool

Spark plug kits have pilot nose taps for accurate self alignment eliminating the need for drilling.



## Spark plug

### „Wire thread inserts“

| Thread inner- Ø | Art. no.     | Length  | Core- Ø            | Outside- Ø |
|-----------------|--------------|---------|--------------------|------------|
|                 |              | in inch | spiral tap Ø in mm | in mm      |
| M10 -1,0        | <b>08108</b> | 0,339   | -                  | -          |
|                 | <b>08109</b> | 1/2     | -                  | -          |
| M12 -1,25       | <b>08122</b> | 1/2     | -                  | -          |
|                 | <b>08123</b> | 3/4     | -                  | -          |
| M14 -1,25       | <b>08148</b> | 3/8     | 14,25              | 15,62      |
|                 | <b>08141</b> | 0,472   | 14,25              | 15,62      |
|                 | <b>08147</b> | 7/16    | 14,25              | 15,62      |
|                 | <b>08149</b> | 1/2     | 14,25              | 15,62      |
|                 | <b>08140</b> | 3/4     | 14,25              | 15,62      |
| M18 -1,5        | <b>08189</b> | 1/2     | 18,50              | 19,95      |



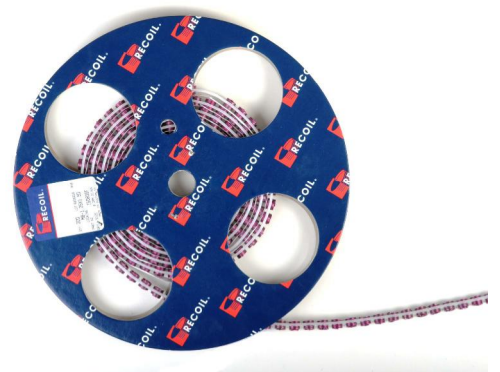
## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „metric“- (taped)

| Thread<br>inner- Ø<br>„metric“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|--------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                                |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| M2 x 0,4                       | 05012SF  | 1D     | 2,2  | 2,10                  | -             | 45025         |
|                                | 05013SF  | 1,5D   | 3,3  |                       |               |               |
|                                | 05014SF  | 2D     | 4,4  |                       |               |               |
| M2,5 x 0,45                    | 05252SF  | 1D     | 2,5  | 2,60                  | -             | 45015         |
|                                | 05253SF  | 1,5D   | 3,8  |                       |               |               |
|                                | 05254SF  | 2D     | 5,0  |                       |               |               |
| M3 x 0,5                       | 05032SF  | 1D     | 2,5  | 3,10                  | 3,65          | 45035         |
|                                | 05033SF  | 1,5D   | 3,8  |                       |               |               |
|                                | 05034SF  | 2D     | 5,0  |                       |               |               |
| M4 x 0,7                       | 05042SF  | 1D     | 4,0  | 4,10                  | 4,91          | 45045         |
|                                | 05043SF  | 1,5D   | 6,0  |                       |               |               |
|                                | 05044SF  | 2D     | 8,0  |                       |               |               |
| M5 x 0,8                       | 05052SF  | 1D     | 5,0  | 5,20                  | 6,04          | 45055         |
|                                | 05053SF  | 1,5D   | 7,5  |                       |               |               |
|                                | 05054SF  | 2D     | 10,0 |                       |               |               |
| M6 x 1,0                       | 05062SF  | 1D     | 7,0  | 6,20                  | 7,30          | 45065         |
|                                | 05063SF  | 1,5D   | 10,5 |                       |               |               |
|                                | 05064SF  | 2D     | 14,0 |                       |               |               |
| M8 x 1,25                      | 05082SF  | 1D     | 8,0  | 8,30                  | 8,30          | 45075         |
|                                | 05083SF  | 1,5D   | 12,5 |                       |               |               |
|                                | 05084SF  | 2D     | 16,0 |                       |               |               |
| M8 x 1,0                       | 07082SF  | 1D     | 8,0  | 8,20                  | -             | 47085         |
|                                | 07083SF  | 1,5D   | 12,0 |                       |               |               |
|                                | 07084SF  | 2D     | 16,0 |                       |               |               |
| M12 -1,75                      | 05122SF  | 1D     | 8,0  | 12,40                 | 14,27         | 45125         |
|                                | 05123SF  | 1,5D   | 12,0 |                       |               |               |
|                                | 05124SF  | 2D     | 16,0 |                       |               |               |





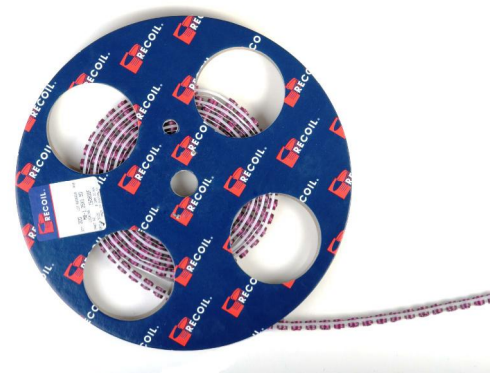
## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „metric- locking“- (taped)

| Thread<br>inner- Ø<br>„metric“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|--------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                                |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| M2,2 x 0,4                     | 15012SF  | 1D     | 2,2  | 2,30                  | -             | 45015         |
|                                | 15013SF  | 1,5D   | 3,3  |                       |               |               |
|                                | 15014SF  | 2D     | 4,4  |                       |               |               |
| M2,5 x 0,45                    | 15252SF  | 1D     | 2,5  | 2,60                  | -             | 45255         |
|                                | 15253SF  | 1,5D   | 3,8  |                       |               |               |
|                                | 15254SF  | 2D     | 5,0  |                       |               |               |
| M3,5 x 0,6                     | 15352SF  | 1D     | 3,5  | 3,60                  | 3,65          | 45355         |
|                                | 15353SF  | 1,5D   | 5,3  |                       |               |               |
|                                | 15354SF  | 2D     | 7,0  |                       |               |               |
| M4 x 0,7                       | 15042SF  | 1D     | 4,0  | 4,10                  | 4,91          | 45045         |
|                                | 15043SF  | 1,5D   | 6,0  |                       |               |               |
|                                | 15044SF  | 2D     | 8,0  |                       |               |               |
| M5 x 0,8                       | 15052SF  | 1D     | 5,0  | 5,20                  | 6,04          | 45055         |
|                                | 15053SF  | 1,5D   | 7,5  |                       |               |               |
|                                | 15054SF  | 2D     | 10,0 |                       |               |               |
| M6 x 1,0                       | 15062SF  | 1D     | 7,0  | 6,20                  | 7,30          | 45065         |
|                                | 15063SF  | 1,5D   | 10,5 |                       |               |               |
|                                | 15064SF  | 2D     | 14,0 |                       |               |               |
| M8 x 1,25                      | 15082SF  | 1D     | 8,0  | 8,30                  | 8,30          | 45075         |
|                                | 15083SF  | 1,5D   | 12,0 |                       |               |               |
|                                | 15084SF  | 2D     | 16,0 |                       |               |               |
| M12 -1,75                      | 15122SF  | 1D     | 8,0  | 12,40                 | -             | 47125         |
|                                | 15123SF  | 1,5D   | 12,0 |                       |               |               |
|                                | 15124SF  | 2D     | 16,0 |                       |               |               |



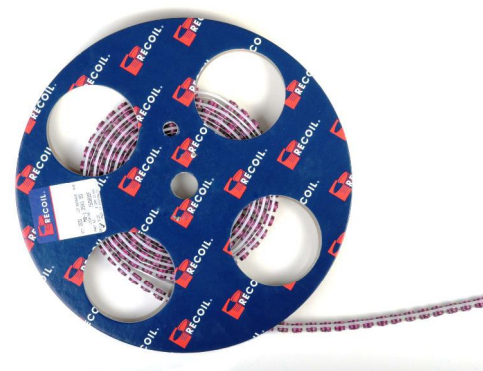
## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „inch- UNC“- (taped)

| Thread<br>inner- Ø<br>„inch“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                              |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 2- 56                        | 03522SF  | 1D     | 2,0  | 2,3                   | 2,84          | 43525         |
|                              | 03523SF  | 1,5D   | 3,0  |                       |               |               |
|                              | 03524SF  | 2D     | 4,0  |                       |               |               |
| 3- 48                        | 03532SF  | 1D     | 2,2  | 2,7                   | -             | 43535         |
|                              | 03533SF  | 1,5D   | 3,3  |                       |               |               |
|                              | 03534SF  | 2D     | 4,4  |                       |               |               |
| 4- 40                        | 03542SF  | 1D     | 2,5  | 3,0                   | -             | 43545         |
|                              | 03543SF  | 1,5D   | 3,8  |                       |               |               |
|                              | 03544SF  | 2D     | 5,0  |                       |               |               |
| 5- 40                        | 03552SF  | 1D     | 2,5  | 3,1                   | 3,67          | 43545         |
|                              | 03553SF  | 1,5D   | 3,8  |                       |               |               |
|                              | 03554SF  | 2D     | 5,0  |                       |               |               |
| 6- 32                        | 03562SF  | 1D     | 3,5  | 3,4                   | 4,00          | 43555         |
|                              | 03563SF  | 1,5D   | 5,3  |                       |               |               |
|                              | 03564SF  | 2D     | 7,0  |                       |               |               |
| 8- 32                        | 03582SF  | 1D     | 4,0  | 4,4                   | -             | 43585         |
|                              | 03583SF  | 1,5D   | 6,0  |                       |               |               |
|                              | 03584SF  | 2D     | 8,0  |                       |               |               |
| 10- 24                       | 03042SF  | 1D     | 5,0  | 3,8                   | 4,54          | 43565         |
|                              | 03043SF  | 1,5D   | 7,5  |                       |               |               |
|                              | 03044SF  | 2D     | 10,0 |                       |               |               |
| 1/4- 20                      | 03042SF  | 1D     | 7,0  | 6,7                   | 8,00          | 43045         |
|                              | 03043SF  | 1,5D   | 10,5 |                       |               |               |
|                              | 03044SF  | 2D     | 14,0 |                       |               |               |
| 5/16- 18                     | 03052SF  | 1D     | 8,0  | 8,3                   | -             | 43055         |
|                              | 03053SF  | 1,5D   | 12,0 |                       |               |               |
|                              | 03054SF  | 2D     | 16,0 |                       |               |               |



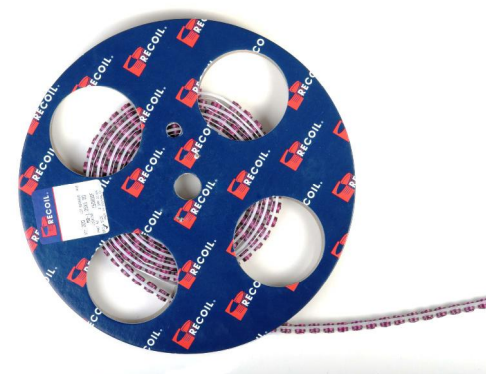
## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „inch- UNF“- (taped)

| Thread<br>inner- Ø<br>„inch“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                              |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 3- 56                        | 04532SF  | 1D     | 2,2  | 2,65                  | -             | 44535         |
|                              | 04533SF  | 1,5D   | 3,3  |                       |               |               |
|                              | 04534SF  | 2D     | 4,4  |                       |               |               |
| 4- 48                        | 04542SF  | 1D     | 2,5  | 3,0                   | 3,53          | 44545         |
|                              | 04543SF  | 1,5D   | 3,8  |                       |               |               |
|                              | 04544SF  | 2D     | 5,0  |                       |               |               |
| 6- 40                        | 04562SF  | 1D     | 3,5  | 3,7                   | 4,33          | 44565         |
|                              | 04563SF  | 1,5D   | 5,3  |                       |               |               |
|                              | 04564SF  | 2D     | 7,0  |                       |               |               |
| 8- 36                        | 04582SF  | 1D     | 4,0  | 4,4                   | 5,08          | 44585         |
|                              | 04583SF  | 1,5D   | 6,0  |                       |               |               |
|                              | 04584SF  | 2D     | 8,0  |                       |               |               |
| 10- 32                       | 04602SF  | 1D     | 5,0  | 5,1                   | 5,86          | 44605         |
|                              | 04603SF  | 1,5D   | 7,5  |                       |               |               |
|                              | 04604SF  | 2D     | 10,0 |                       |               |               |
| 1/4- 28                      | 04042SF  | 1D     | 7,0  | 6,6                   | 7,53          | 44045         |
|                              | 04043SF  | 1,5D   | 10,5 |                       |               |               |
|                              | 04044SF  | 2D     | 14,0 |                       |               |               |
| 5/16- 24                     | 04052SF  | 1D     | 8,0  | 8,2                   | 9,31          | 44055         |
|                              | 04053SF  | 1,5D   | 12,0 |                       |               |               |
|                              | 04054SF  | 2D     | 16,0 |                       |               |               |



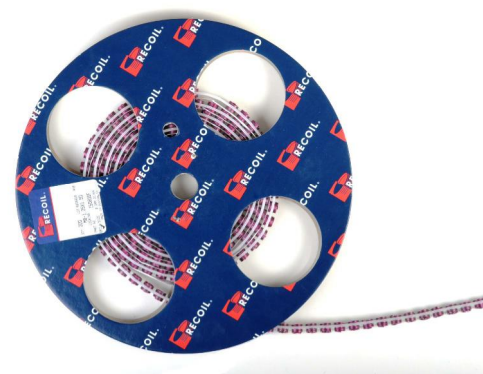
## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „inch- UNC“  
Locking- (taped)

| Thread<br>inner- Ø<br>„inch“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                              |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 2- 56                        | 13522SF  | 1D     | 2,2  | 2,4                   | 2,84          | 43525         |
|                              | 13523SF  | 1,5D   | 3,3  |                       |               |               |
|                              | 13524SF  | 2D     | 4,4  |                       |               |               |
| 3- 48                        | 13532SF  | 1D     | 2,2  | 2,7                   | -             | 43535         |
|                              | 13533SF  | 1,5D   | 3,3  |                       |               |               |
|                              | 13534SF  | 2D     | 4,4  |                       |               |               |
| 4- 40                        | 13542SF  | 1D     | 2,5  | 3,0                   | -             | 43545         |
|                              | 13543SF  | 1,5D   | 3,8  |                       |               |               |
|                              | 13544SF  | 2D     | 5,0  |                       |               |               |
| 5- 40                        | 13552SF  | 1D     | 3,5  | 3,4                   | 3,67          | 43545         |
|                              | 13553SF  | 1,5D   | 5,3  |                       |               |               |
|                              | 13554SF  | 2D     | 7,0  |                       |               |               |
| 6- 32                        | 13562SF  | 1D     | 3,5  | 3,7                   | 4,00          | 43555         |
|                              | 13563SF  | 1,5D   | 5,3  |                       |               |               |
|                              | 13564SF  | 2D     | 7,0  |                       |               |               |
| 8- 32                        | 13582SF  | 1D     | 4,0  | 4,4                   | -             | 43585         |
|                              | 13583SF  | 1,5D   | 6,0  |                       |               |               |
|                              | 13584SF  | 2D     | 8,0  |                       |               |               |
| 10- 24                       | 13602SF  | 1D     | 5,0  | 5,0                   | 4,54          | 43565         |
|                              | 13603SF  | 1,5D   | 7,5  |                       |               |               |
|                              | 13604SF  | 2D     | 10,0 |                       |               |               |
| 1/4- 20                      | 13042SF  | 1D     | 7,0  | 6,7                   | 8,00          | 43045         |
|                              | 13043SF  | 1,5D   | 10,5 |                       |               |               |
|                              | 13044SF  | 2D     | 14,0 |                       |               |               |
| 5/16- 18                     | 13052SF  | 1D     | 8,0  | 8,3                   | -             | 43055         |
|                              | 13053SF  | 1,5D   | 12,0 |                       |               |               |
|                              | 13054SF  | 2D     | 16,0 |                       |               |               |



## „Recoil“

### Inserts, tools and repair-kits

#### Thread inserts

Wire thread inserts „inch- UNF“  
Locking- (taped)

| Thread<br>inner- Ø<br>„inch“ | Art. no. | Length |      | Core-<br>Ø            | Outside-<br>Ø | Screw-<br>tap |
|------------------------------|----------|--------|------|-----------------------|---------------|---------------|
|                              |          | D      | mm   | spiral tap<br>Ø in mm | in mm         | art. no.      |
| 3- 56                        | 14532SF  | 1D     | 2,2  | 2,65                  | -             | 44535         |
|                              | 14533SF  | 1,5D   | 3,3  |                       |               |               |
|                              | 14534SF  | 2D     | 4,4  |                       |               |               |
| 4- 48                        | 14542SF  | 1D     | 2,5  | 3,0                   | 3,53          | 44545         |
|                              | 14543SF  | 1,5D   | 3,8  |                       |               |               |
|                              | 14544SF  | 2D     | 5,0  |                       |               |               |
| 6- 40                        | 14562SF  | 1D     | 3,5  | 3,7                   | 4,33          | 44565         |
|                              | 14563SF  | 1,5D   | 5,3  |                       |               |               |
|                              | 14564SF  | 2D     | 7,0  |                       |               |               |
| 8- 36                        | 14582SF  | 1D     | 4,0  | 4,4                   | 5,08          | 44585         |
|                              | 14583SF  | 1,5D   | 6,0  |                       |               |               |
|                              | 14584SF  | 2D     | 8,0  |                       |               |               |
| 10- 32                       | 14602SF  | 1D     | 5,0  | 5,1                   | 5,86          | 44605         |
|                              | 14603SF  | 1,5D   | 7,5  |                       |               |               |
|                              | 14604SF  | 2D     | 10,0 |                       |               |               |
| 1/4- 28                      | 14042SF  | 1D     | 7,0  | 6,6                   | 7,53          | 44045         |
|                              | 14043SF  | 1,5D   | 10,5 |                       |               |               |
|                              | 14044SF  | 2D     | 14,0 |                       |               |               |
| 5/16- 24                     | 14052SF  | 1D     | 8,0  | 8,2                   | 9,31          | 44055         |
|                              | 14053SF  | 1,5D   | 12,0 |                       |               |               |
|                              | 14054SF  | 2D     | 16,0 |                       |               |               |



## „Recoil“

### Inserts, tools and repair-kits

## Hand-installation tools

### „Metric“

| Thread<br>Ø<br>inner | Prewinder tool                                                                     |                                                                                    | Tang-<br>break tool                                                                |                                                                                                       | Extracting-<br>tool                                                                  |
|----------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                      |   |  |  | with<br>spring<br> |  |
|                      | Plastic                                                                            | Metal                                                                              |                                                                                    |                                                                                                       |                                                                                      |
|                      |  |                                                                                    |                                                                                    |                                                                                                       |                                                                                      |

### Coarse pitch thread

|             |        |       |          |        |       |                  |  |
|-------------|--------|-------|----------|--------|-------|------------------|--|
| M2 x 0,4    |        |       | 50061-20 | M59060 | 59061 | 50001            |  |
| M2.2 x 0,45 |        | 55011 | 50061-21 |        |       |                  |  |
| M2.5 x 0,45 |        | 55251 | 50069-21 | M59070 | 59071 |                  |  |
| M3 x 0,5    | 55032U | 55031 | 50089-17 | M59090 | 59091 |                  |  |
| M3.5 x 0,6  |        | 55351 | 50095-15 | M59100 | 59101 | 50002            |  |
| M4 x 0,7    | 55042U | 55041 | 50125-13 | M59130 | 59121 |                  |  |
| M5 x 0,8    | 55052U | 55051 | 50156-9  | M59160 | 59141 |                  |  |
| M6 x 1,0    | 55062U | 55061 | 50188-5  | M59190 | 59181 |                  |  |
| M7 x 1,0    |        | 55071 | 50219-4  |        |       |                  |  |
| M8 x 1,25   | 55082U | 55081 | 50250-7  | M59250 | 59241 |                  |  |
| M10 x 1,5   | 55102U | 55101 | 50281-4  | M59280 | 59291 |                  |  |
| M12 x 1,75  | 55122U | 55121 | 50375-1  | M59380 |       |                  |  |
| M14 x 2     |        | 55146 | 50438-0  |        |       |                  |  |
| M15 x 2     |        |       | 50438-0  |        |       |                  |  |
| M16 x 2     |        | 55166 | 50500-0  |        |       | 50003            |  |
| M18 x 2,5   |        | 55186 | 50591-0  |        |       |                  |  |
| M22 x 2,5   |        |       | 50688    |        |       |                  |  |
| M24 x 3     |        |       | 50750    |        |       |                  |  |
| M27 x 3     |        |       | 50875    |        |       |                  |  |
| M30 x 3,5   |        |       | 51000    |        |       |                  |  |
| M30 x 3     |        |       |          |        |       |                  |  |
| M36 x 4     |        |       | 51125    |        |       |                  |  |
| M39 x 4     |        |       | 51250    |        |       |                  |  |
|             |        |       |          |        |       | 50005<br>bis M65 |  |

### Fine thread

|            |        |       |         |        |       |       |  |
|------------|--------|-------|---------|--------|-------|-------|--|
| M8 x 1     |        | 57081 | 50250-7 |        |       | 50002 |  |
| M10 x 1,0  |        | 58101 | 50313-4 |        |       |       |  |
| M10 x 1,25 | 57102  | 57101 |         | M59310 |       |       |  |
| M12 x 1,25 | 58122  | 58121 |         |        |       |       |  |
| M12 x 1,5  | 57122U | 57121 |         |        |       | 50003 |  |
| M14 x 1,5  |        | 57141 | 50438-0 |        | 59462 |       |  |
| M16 x 1,5  |        | 57161 | 50500-0 |        |       |       |  |
| M18 x 1,5  |        | 58181 | 50591-0 |        |       |       |  |
| M18 x 2    |        |       |         |        |       |       |  |



## „Recoil“

### Inserts, tools and repair-kits

## Hand-installation tools

„Inch- standard“

| Thread<br>Ø<br>inner | Prewinder tool                                                                     |                                                                                   | Tang-<br>break tool                                                                              | Extracting-<br>tool                                                                |       |
|----------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|
|                      |   |  | with spring<br> |  |       |
|                      | Plastic                                                                            | Metal                                                                             |                                                                                                  |                                                                                    |       |
|                      |  |                                                                                   |                                                                                                  |                                                                                    |       |
| <b>Standard</b>      |                                                                                    |                                                                                   |                                                                                                  |                                                                                    |       |
| 2- 56                |                                                                                    | 53526                                                                             | 50061-17                                                                                         | 59061                                                                              | 50001 |
| 3- 48                |                                                                                    | 53536                                                                             | 50069                                                                                            | 59071                                                                              |       |
| 4- 40                | 53542U                                                                             | 53541                                                                             | 50077-17                                                                                         | 59081                                                                              |       |
| 5- 40                |                                                                                    | 53551                                                                             | 50089-18                                                                                         | 59091                                                                              |       |
| 6- 32                | 53562U                                                                             | 53561                                                                             | 50095-16                                                                                         | 59101                                                                              | 50003 |
| 8- 32                | 53582U                                                                             | 53581                                                                             | 50125-14                                                                                         | 59121                                                                              | 50001 |
| 10- 24               | 53602U                                                                             | 53601                                                                             | 50140-11                                                                                         | 59141                                                                              | 50002 |
| 12- 24               |                                                                                    | 53621                                                                             | 50156-10                                                                                         |                                                                                    |       |
| 1/4- 20              | 53042U                                                                             | 53041                                                                             | 50188-10                                                                                         | 59181                                                                              |       |
| 5/16- 18             | 53052U                                                                             | 53051                                                                             | 50219-8                                                                                          | 59241                                                                              |       |
| 3/8- 16              | 53062U                                                                             | 53061                                                                             | 50281-4                                                                                          | 59291                                                                              |       |
| 7/16- 14             | 53072U                                                                             | 53071                                                                             | 50344-3                                                                                          |                                                                                    |       |
| 1/2- 13              | 53082U                                                                             | 53081                                                                             | 50375-2                                                                                          | 59332                                                                              |       |
| 9/16- 12             |                                                                                    | 53096                                                                             | 50438                                                                                            |                                                                                    |       |
| 5/8- 11              |                                                                                    | 53106                                                                             | 50500                                                                                            |                                                                                    |       |
| 3/4- 10              |                                                                                    | 53126                                                                             | 50591                                                                                            |                                                                                    |       |
| 7/8- 9               |                                                                                    | 53146                                                                             | 50688                                                                                            |                                                                                    |       |
| 1-8                  |                                                                                    | 53166                                                                             |                                                                                                  |                                                                                    | 50004 |
| 1 1/8- 7             |                                                                                    | 53186                                                                             | 50875                                                                                            |                                                                                    |       |
| 1 1/4-7              |                                                                                    | 53206                                                                             | 51000                                                                                            |                                                                                    |       |
| 1 3/8- 6             |                                                                                    | 53226                                                                             | 51063                                                                                            |                                                                                    |       |
| 1 1/2- 6             |                                                                                    | 53246                                                                             | 21125                                                                                            |                                                                                    |       |
|                      |                                                                                    |                                                                                   |                                                                                                  |                                                                                    | 50005 |

## „Recoil“

### Inserts, tools and repair-kits

## Hand-installation tools

„Inch- fine thread“

| Thread<br>Ø<br>inner | Prewinder tool                                                                     |       | Tang-<br>break tool                                                                | Extracting-<br>tool                                                                 |       |       |
|----------------------|------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|-------|
|                      |   |       |  |  |       |       |
|                      | Plastic                                                                            | Metal |                                                                                    |                                                                                     |       |       |
|                      |  |       |                                                                                    |                                                                                     |       |       |
| Fine thread          |                                                                                    |       |                                                                                    |                                                                                     |       |       |
| 3- 56                |                                                                                    | 54531 | 50069-17                                                                           | 59071                                                                               | 50001 |       |
| 4- 48                |                                                                                    | 54541 | 50077-17                                                                           | 59081                                                                               | 50002 | 50003 |
| 6- 40                |                                                                                    | 54561 | 50095-17                                                                           | 59101                                                                               |       |       |
| 8- 36                |                                                                                    | 54581 | 50125-14                                                                           | 59121                                                                               |       |       |
| 10- 32               | 54602U                                                                             | 54601 | 50156-11                                                                           | 59141                                                                               |       |       |
| 1/4- 28              | 54042U                                                                             | 54041 | 50188-10                                                                           | 59181                                                                               |       |       |
| 5/16- 24             | 54052U                                                                             | 54051 | 50250                                                                              | 59241                                                                               |       |       |
| 3/8- 24              | 54062U                                                                             | 54061 | 50313-6                                                                            | 59291                                                                               |       |       |
| 7/16- 20             | 54072U                                                                             | 54071 | 50344-4                                                                            |                                                                                     |       |       |
| 1/2- 20              | 54082U                                                                             | 54081 | 50375-3                                                                            |                                                                                     |       |       |
| 9/16- 18             |                                                                                    | 54091 | 50438                                                                              |                                                                                     |       |       |
| 5/8- 18              |                                                                                    | 54101 | 50500                                                                              |                                                                                     |       |       |
| 3/4- 16              |                                                                                    | 54121 | 50688                                                                              |                                                                                     |       |       |
| 7/8- 14              |                                                                                    | 54141 | 50750                                                                              |                                                                                     |       |       |
| 1- 12                |                                                                                    | 54161 | 51000                                                                              |                                                                                     |       |       |
| 1- 14                |                                                                                    | 54171 |                                                                                    |                                                                                     |       |       |
| 1 1/8- 12            |                                                                                    | 54181 |                                                                                    |                                                                                     | 50004 |       |

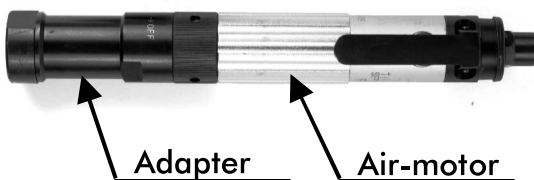
## „Recoil“

### Inserts, tools and repair-kits

#### Automatic tools

„Pneumatic“

„Metric“

|                      |  |  |               |                        |
|----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|------------------------|
| Thread<br>Ø<br>inner | Loading sleeve<br>with drift pin                                                  | Adapter                                                                            | Air-<br>motor | Adapter+ Air-<br>motor |
| Coarse pitch thread  |                                                                                   |                                                                                    |               |                        |
| M2,5- 0,45           | 55250 (M8751-2:5-15)                                                              | 56040                                                                              | 56011         | NR-HL1409              |
| M3- 0,5              | 55030 (M8751-3-15)                                                                |                                                                                    |               |                        |
| M4- 0,7              | 55040 (M8751-4-15)                                                                |                                                                                    |               |                        |
| M5- 0,8              | 55050 (M8751-5-15)                                                                |                                                                                    |               |                        |
| M6- 1                | 55060 (M8751-6-15)                                                                |                                                                                    |               | NR-HL1410              |
| M8- 1                | 55080 (M8755-8-15)                                                                |                                                                                    |               |                        |
| M10- 1,5             | 55100 (M8751-10-15)                                                               |                                                                                    |               |                        |
| M12- 1,75            | 55120 (M8751-12-15)                                                               |                                                                                    |               |                        |
| M16- 2               | 55160 (M8751-16)                                                                  |                                                                                    |               |                        |
| Fine thread          |                                                                                   |                                                                                    |               |                        |
| M8 -1                | 57080 (M8755-8-15)                                                                | 56040                                                                              | 56010         | NR-HL1410              |
| M10- 1               | 58100 (8755-10-15)                                                                |                                                                                    |               |                        |
| M10- 1,25            | 57100 (M8756-10-15)                                                               |                                                                                    |               |                        |
| M12- 1,25            | 58120 (M8756-12-15)                                                               |                                                                                    |               |                        |
| M12- 1,5             | 57120 (M8753-12-15)                                                               |                                                                                    |               |                        |
| M14- 1,5             | 57140 (M8753-14)                                                                  |                                                                                    |               |                        |

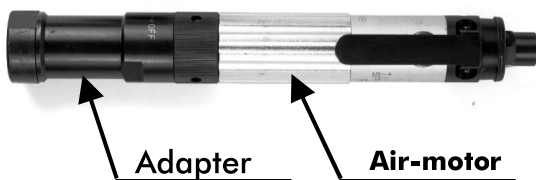
## „Recoil“

### Inserts, tools and repair-kits

#### Automatic tools

„Pneumatic“

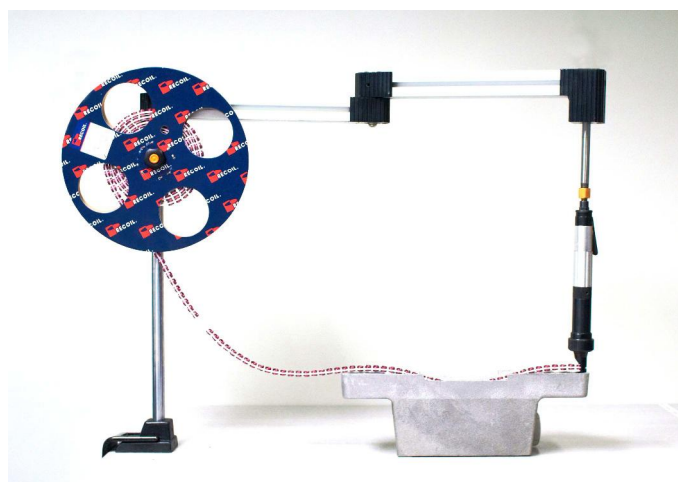
„Inch“

|                           |  |  |               |                       |
|---------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|-----------------------|
| Thread<br>Ø<br>inner      | Loading sleeve<br>with drift pin                                                  | Adapter                                                                            | Air-<br>motor | Adapter+Air-<br>motor |
| Coarse pitch thread (UNC) |                                                                                   |                                                                                    |               |                       |
| 2- 56                     | 53520 (M8551-02-15)                                                               | 56030                                                                              | 56010         | NR-HL1409             |
| 4- 40                     | 53540 (M8551-04-15)                                                               |                                                                                    |               |                       |
| 5- 40                     | 53550 (M8551-05-15)                                                               |                                                                                    |               |                       |
| 6- 32                     | 53560 (M8551-06-15)                                                               |                                                                                    |               |                       |
| 8- 32                     | 53580 (M8551-2-15)                                                                |                                                                                    |               |                       |
| 10- 24                    | 53600 (M8551-3-15)                                                                |                                                                                    |               |                       |
| 1/4- 20                   | 53040 (M8551-4-15)                                                                |                                                                                    |               |                       |
| 5/16- 18                  | 53050 (M8251-5-15)                                                                | 56040                                                                              | 56011         | NR-HL1410             |
| 3/8- 16                   | 53060 (M8251-6-15)                                                                |                                                                                    |               |                       |
| 7/16- 14                  | 53070 (M8251-7-15)                                                                |                                                                                    |               |                       |
| 1/2-13                    | 53080 (M8251-8-15)                                                                |                                                                                    |               |                       |
| 5/8- 11                   | 53100 (M8251-9)                                                                   |                                                                                    |               |                       |
| 3/4- 10                   | 53120 (M8251-10)                                                                  |                                                                                    |               |                       |
| Fine thread (UNF)         |                                                                                   |                                                                                    |               |                       |
| 6- 40                     | 54560 (M8552-06-15)                                                               | 56030                                                                              | 56010         | NR-HL1409             |
| 10- 32                    | 54600 (M8552-3-15)                                                                |                                                                                    |               |                       |
| 1/4- 28                   | 54040 (M8552-4-15)                                                                |                                                                                    |               |                       |
| 5/16- 24                  | 54050 (M8252-5-15)                                                                | 56040                                                                              | 56010         | NR-HL1410             |
| 3/8- 24                   | 54060 (M8252-6-15)                                                                |                                                                                    |               |                       |
| 7/16- 20                  | 54070 (M8252-7-15)                                                                |                                                                                    |               |                       |
| 1/2- 20                   | 54080 (M8252-8-15)                                                                |                                                                                    |               |                       |

#### Holding arms

„for prewinder tool“

| Thread<br>Ø<br>inner | Art.no. |
|----------------------|---------|
| M2,2- 0,45           | 56000   |
| M2,5- 0,45           |         |
| M3- 0,5              |         |
| 2- 1/4               | 56000   |
| 5/16- 1/2            |         |
| 9/16- 3/4            |         |





self locking nuts



General  
Industry



Wind-  
mill



Automotive  
Industry



Rail



Aero-  
space



Agricultural  
machines



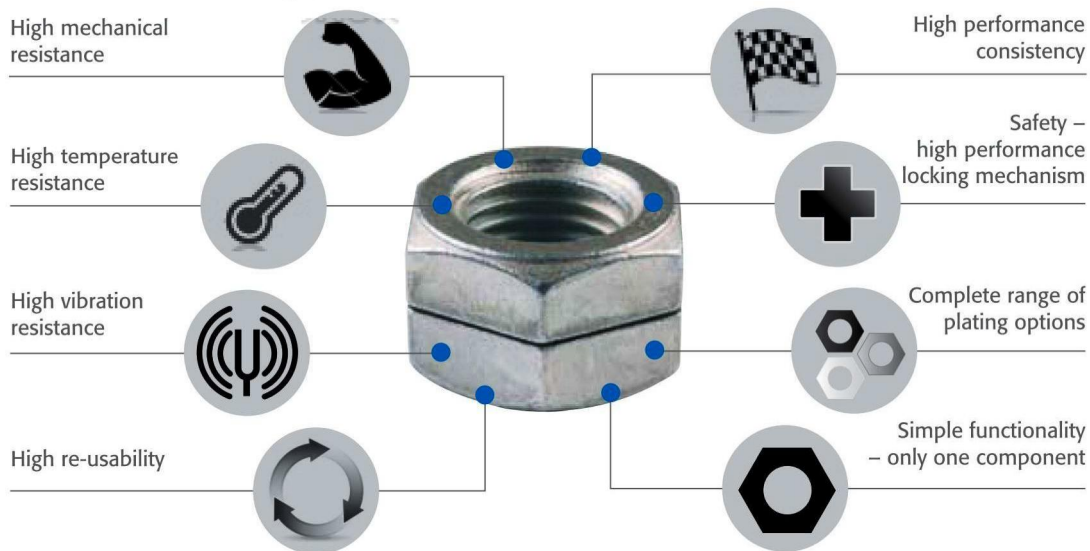


## self locking nuts

### The SNEP self locking nut

The original single slotted self-locking nut developed in 1954 is still available today alongside a wider range of self-locking nuts including the double slotted nut. Despite major advances in technology, the single-slotted self locking nut still outperforms its rivals in performance – sometimes simplicity is better. SNEP slotted nuts combine both extreme strength with re-usability so you can rely on it time and time again.

SNEP slotted nuts offer the following features and benefits:



#### Principle mechanical function:

The self-locking function is obtained by an axial deformed slot.

The metal above the slot is set to de-pitch the threads so that when the nut is tightened on to a bolt, the thread is gripped on the flank.



## ESN - H100

- Single locking slot – simple but incredibly effective
- Reversible: Locking slot at 1/2 nut height
- Re-usable up to 5 times with minimal performance loss (ISO2320)
- Class 6 & 8
- Suitable for automatic installation



## ESN - H130

- Single locking slot – simple but incredibly effective
- Locking slot at 2/3 nut height
- Re-usable up to 5 times with minimal performance loss (ISO2320)
- Class 6, 8 & 10
- Made to ISO 7042 standard
- CF 00-040 European rail standard certified



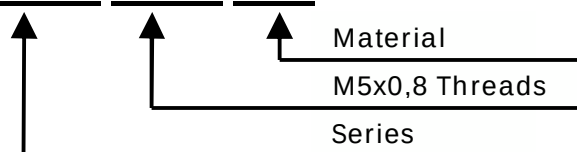
The international Standard ISO 2320 determine functional properties for nuts with clamping parts. They are tested in an ambient temperature range of +10°C to +35°C. It contains a single test to determination of the clamping characteristics (functional properties) and/ or the torque-/ preload force characteristics. The Norm applies to all-metal nuts with clamping parts in the temperature range of -50°C to +150°C.

## Materials and coatings:

|                     |                                                             |       |
|---------------------|-------------------------------------------------------------|-------|
| Steel grades 5.8    | (zinc plated CrVI-free passivated)                          | R60   |
| Steel grades 8.8    | (zinc plated CrVI-free passivated)                          | R80   |
| Stainless steel V2A | (Rm = 700N/mm <sup>2</sup> ) (against stainless steel grub) | 2A-70 |
| Stainless steel V4A | (Rm = 800N/mm <sup>2</sup> ) (against stainless steel grub) | 4A-80 |

## Ordering example:

Art.no. ESNH100 M5X80 R80Z





self locking nuts

ESN H100/ Stainless steel V2A (against stainless steel grub)

Single slot- at 1/2 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M4      | ESNH100M4X70A2   | 4          | 7  |
| M5      | ESNH100M5X80A2   | 5          | 8  |
| M6      | ESNH100M6X100A2  | 6          | 10 |
| M8      | ESNH100M8X125A2  | 8          | 13 |
| M10     | ESNH100M10X150A2 | 10         | 16 |
| M12     | ESNH100M12X175A2 | 12         | 18 |
| M14     | ESNH100M14X200A2 | 14         | 21 |
| M16     | ESNH100M16X200A2 | 16         | 24 |
| M18     | ESNH100M18X250A2 | 18         | 27 |
| M20     | ESNH100M20X250A2 | 20         | 30 |
| M22     | ESNH100M22X250A2 | 22         | 34 |
| M24     | ESNH100M24X300A2 | 24         | 36 |
| M27     | ESNH100M27X300A2 | 27         | 41 |



ESN H100/ Stainless steel V4A (against stainless steel grub)

Single slot- at 1/2 nut height

| Gewinde | Artikel Nr.      | Abmessungen |    |
|---------|------------------|-------------|----|
|         |                  | Höhe        | SW |
| M4      | ESNH100M4X70A4   | 4           | 7  |
| M5      | ESNH100M5X80A4   | 5           | 8  |
| M6      | ESNH100M6X100A4  | 6           | 10 |
| M8      | ESNH100M8X125A4  | 8           | 13 |
| M10     | ESNH100M10X150A4 | 10          | 16 |
| M12     | ESNH100M12X175A4 | 12          | 18 |
| M14     | ESNH100M14X200A4 | 14          | 21 |
| M16     | ESNH100M16X200A4 | 16          | 24 |
| M18     | ESNH100M18X250A4 | 18          | 27 |
| M20     | ESNH100M20X250A4 | 20          | 30 |
| M22     | ESNH100M22X250A4 | 22          | 34 |
| M24     | ESNH100M24X300A4 | 24          | 36 |
| M27     | ESNH100M27X300A4 | 27          | 41 |





## self locking nuts

ESN H100/ R60 (zinc plated CrVI-free passivated)

Single slot- at 1/2 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M5      | ESNH100M5X80R60Z | 5          | 8  |
| M6      | ESNH100M6X100R60 | 6          | 10 |
| M8      | ESNH100M8X125R60 | 8          | 13 |
| M10     | ESNH100M10X150R6 | 10         | 16 |
| M12     | ESNH100M12X175R6 | 12         | 18 |
| M14     | ESNH100M14X200R6 | 14         | 21 |
| M16     | ESNH100M16X200R6 | 16         | 24 |
| M18     | ESNH100M18X250R6 | 18         | 27 |
| M20     | ESNH100M20X250R6 | 20         | 30 |
| M22     | ESNH100M22X250R6 | 22         | 34 |
| M24     | ESNH100M24X300R6 | 24         | 36 |
| M27     | ESNH100M27X300R6 | 27         | 41 |



ESN H100/ R80 (zinc plated CrVI-free passivated)

Single slot- at 1/2 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M5      | ESNH100M5X80R80Z | 5          | 8  |
| M6      | ESNH100M6X100R80 | 6          | 10 |
| M8      | ESNH100M8X125R80 | 8          | 13 |
| M10     | ESNH100M10X150R8 | 10         | 16 |
| M12     | ESNH100M12X175R8 | 12         | 18 |
| M14     | ESNH100M14X200R8 | 14         | 21 |
| M16     | ESNH100M16X200R8 | 16         | 24 |
| M18     | ESNH100M18X250R8 | 18         | 27 |
| M20     | ESNH100M20X250R8 | 20         | 30 |
| M22     | ESNH100M22X250R8 | 22         | 34 |
| M24     | ESNH100M24X300R8 | 24         | 36 |
| M27     | ESNH100M27X300R8 | 27         | 41 |



**ESN H130/ Stainless steel V2A** (against stainless steel grub)

Single slot- at 2/3 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M4      | ESNH130M4X70A2   | 5,2        | 7  |
| M5      | ESNH130M5X80A2   | 6,5        | 8  |
| M6      | ESNH130M6X100A2  | 7,8        | 10 |
| M8      | ESNH130M8X125A2  | 10,4       | 13 |
| M10     | ESNH130M10X150A2 | 13         | 16 |
| M12     | ESNH130M12X175A2 | 15,6       | 18 |
| M14     | ESNH130M14X200A2 | 18,2       | 21 |
| M16     | ESNH130M16X200A2 | 20,8       | 24 |
| M18     | ESNH130M18X250A2 | 23,4       | 27 |
| M20     | ESNH130M20X250A2 | 26         | 30 |
| M22     | ESNH130M22X250A2 | 28,6       | 34 |
| M24     | ESNH130M24X300A2 | 31,2       | 36 |
| M27     | ESNH130M27X300A2 | 35,1       | 41 |



Special sizes (M30-M80) on request.

**ESN H130/ Stainless steel V4A** (against stainless steel grub)

Single slot- at 2/3 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M4      | ESNH130M4X70A4   | 5,2        | 7  |
| M5      | ESNH130M5X80A4   | 6,5        | 8  |
| M6      | ESNH130M6X100A4  | 7,8        | 10 |
| M8      | ESNH130M8X125A4  | 10,4       | 13 |
| M10     | ESNH130M10X150A4 | 13         | 16 |
| M12     | ESNH130M12X175A4 | 15,6       | 18 |
| M14     | ESNH130M14X200A4 | 18,2       | 21 |
| M16     | ESNH130M16X200A4 | 20,8       | 24 |
| M18     | ESNH130M18X250A4 | 23,4       | 27 |
| M20     | ESNH130M20X250A4 | 26         | 30 |
| M22     | ESNH130M22X250A4 | 28,6       | 34 |
| M24     | ESNH130M24X300A4 | 31,2       | 36 |
| M27     | ESNH130M27X300A4 | 35,1       | 41 |





## self locking nuts

ESN H130/ R60 (zinc plated CrVI-free passivated)

Single slot- at 2/3 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M5      | ESNH130M5X80R60Z | 6,5        | 8  |
| M6      | ESNH130M6X100R60 | 7,8        | 10 |
| M8      | ESNH130M8X125R60 | 10,4       | 13 |
| M10     | ESNH130M10X150R6 | 13         | 16 |
| M12     | ESNH130M12X175R6 | 15,6       | 18 |
| M14     | ESNH130M14X200R6 | 18,2       | 21 |
| M16     | ESNH130M16X200R6 | 20,8       | 24 |
| M18     | ESNH130M18X250R6 | 23,4       | 27 |
| M20     | ESNH130M20X250R6 | 26         | 30 |
| M22     | ESNH130M22X250R6 | 28,6       | 34 |
| M24     | ESNH130M24X300R6 | 31,2       | 36 |
| M27     | ESNH130M27X300R6 | 35,1       | 41 |



Special sizes (M30-M80) on request.

ESN H130/ R80 (zinc plated CrVI-free passivated)

Single slot- at 2/3 nut height

| Threads | Article no.      | Dimensions |    |
|---------|------------------|------------|----|
|         |                  | Height     | SW |
| M5      | ESNH130M5X80R80Z | 6,5        | 8  |
| M6      | ESNH130M6X100R80 | 7,8        | 10 |
| M8      | ESNH130M8X125R80 | 10,4       | 13 |
| M10     | ESNH130M10X150R8 | 13         | 16 |
| M12     | ESNH130M12X175R8 | 15,6       | 18 |
| M14     | ESNH130M14X200R8 | 18,2       | 21 |
| M16     | ESNH130M16X200R8 | 20,8       | 24 |
| M18     | ESNH130M18X250R8 | 23,4       | 27 |
| M20     | ESNH130M20X250R8 | 26         | 30 |
| M22     | ESNH130M22X250R8 | 28,6       | 34 |
| M24     | ESNH130M24X300R8 | 31,2       | 36 |
| M27     | ESNH130M27X300R8 | 35,1       | 41 |



Special sizes (M30-M80) on request.



self locking nuts

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# HoKon

VERSCHLUSSTECHNIK &  
SONDERKONSTRUKTIONEN

Zertifiziert nach DIN EN ISO 9001:2008



Suitcase corners

Edge protectors

Linchpins

Spring clips



Management  
System  
ISO 9001:2015  
ISO 14001:2015

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## FOLDER 7 SUNDRIES

FOLDER 1 LATCHES

FOLDER 2 TENSION BANDS

FOLDER 3 HANDLES

FOLDER 4 HINGES

FOLDER 5 LOCKING DEVICES

FOLDER 6 THREADED INSERTS

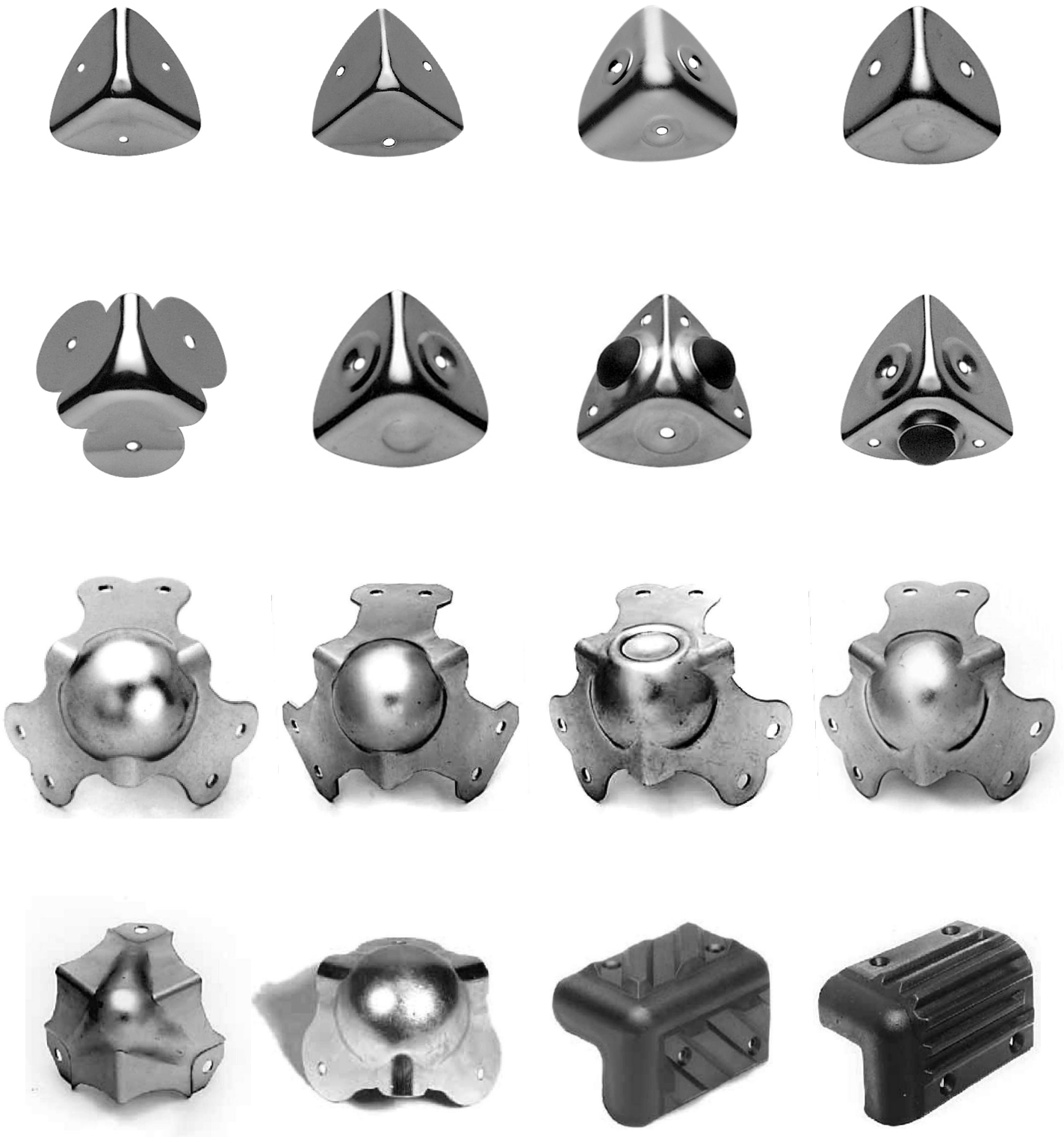
FOLDER 7 SUNDRIES

|                                         |      |
|-----------------------------------------|------|
| SUITCASE CORNERS .....                  | D-71 |
| LINCH PINS, HOSE CLIPS AND R-CLIPS..... | I-2  |
| SPRING CLIPS.....                       | K-1  |
| EDGE PROTECTORS.....                    | L-1  |
| RUBBER BUMP .....                       | M    |
| • RUBBER-METAL-BUFFER .....             | M-1  |
| • SELF ADHESIVE RUBBER BUFFERS .....    | M-27 |

GENERAL TERMS AND CONDITIONS.....



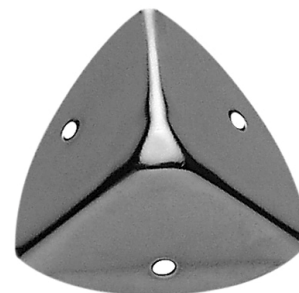
## Suitcase corners



## Suitcase Corners

### „Sharp“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8001        | .01       | .01           | 20x20            | 2,5    |
|             | .02       | .01           | 20x20            | 3,5    |
| 8005        | .01       | .01           | 27x27            | 2,5    |
|             | .02       | .01           | 27x27            | 3,5    |
|             | .03       | .01           | 27x27            | 4,0    |
|             | .04       | .01           | 27x27            | 4,5    |
| 8010        | .01       | .01           | 32x32            | 3,5    |
|             | .02       | .01           | 32x32            | 2,5    |
|             | .03       | .01           | 32x32            | 4,25   |
| 8015        | .01       | .01           | 35x35            | 3,5    |
|             | .02       | .01           | 35x35            | 4,25   |
| 8025        | .01       | .01           | 45x45            | 4,25   |



### „Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8095        | .01       | .01           | 16x16            | 1,1    |
| 8030        | .01       | .01           | 20x20            | 2,5    |
|             | .02       | .01           | 20x20            | 3,5    |
| 8035        | .01       | .01           | 27x27            | 2,5    |
|             | .02       | .01           | 27x27            | 3,5    |
|             | .03       | .01           | 27x27            | 4,0    |
|             | .04       | .01           | 27x27            | 4,5    |
| 8040        | .01       | .01           | 32x32            | 3,5    |
|             | .02       | .01           | 32x32            | 2,5    |
|             | .03       | .01           | 32x32            | 4,25   |
| 8041        | .01       | .01           | 32x32            | 3,5    |
|             | .02       | .01           | 32x32            | 2,5    |
|             | .03       | .01           | 32x32            | 4,25   |
| 8045        | .01       | .01           | 35x35            | 4,25   |
| 8050        | .01       | .01           | 40x40            | 4,25   |
|             | .02       | .01           | 40x40            | 5,5    |
| 8055        | .01       | .01           | 50x50            | 4,5    |



Further materials and surface finishes on demand. We will be pleased to give you advice.

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## Suitcase Corners

### „Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8070        | .01       | .01           | 20x20            | 2,5    |
| 8085        | .01       | .01           | 32x32            | 3,5    |
| 8090        | .01       | .01           | 45x45            | 4,2    |



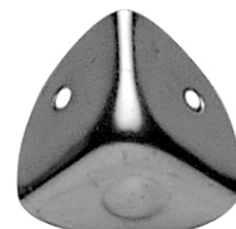
### „Dulled“ (drilled)

| Article no. |           |           | Dimensions in mm |        |
|-------------|-----------|-----------|------------------|--------|
| Series      | Execution | Material  | Size             | Hole Ø |
|             |           | Chromated |                  |        |
|             |           | Steel     |                  |        |
| 8100        | .01       | .03       | 28x28            | 4,2    |
| 8105        | .01       | .03       | 32x32            | 4,2    |
| 8110        | .01       | .03       | 40x40            | 4,2    |



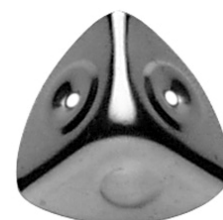
### „Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8060        | .01       | .01           | 20x20            | 3,5    |
| 8060        | .02       | .01           | 20x20            | 2,5    |



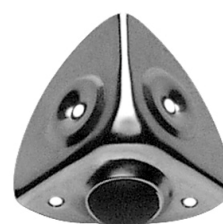
### „Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8065        | .01       | .01           | 20x20            | 2,5    |



### „Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8075        | .01       | .01           | 28x28            | 2,5    |



## Suitcase Corners

„Dulled“ (drilled)

| Article no. |           |               | Dimensions in mm |        |
|-------------|-----------|---------------|------------------|--------|
| Series      | Execution | Material      | Size             | Hole Ø |
|             |           | Nickel plated |                  |        |
|             |           | Steel         |                  |        |
| 8080        | .01       | .01           | 28x28            | 2,8    |



Art.no. 100.C1339z (drilled)

| Article no. |           |             | Dimensions in mm |        |
|-------------|-----------|-------------|------------------|--------|
| Series      | Execution | Material    | Size             | Hole Ø |
|             |           | Zinc plated |                  |        |
|             |           | Steel       |                  |        |
| 100.C1339z  | .01       | .04         | 65x65            | 5      |



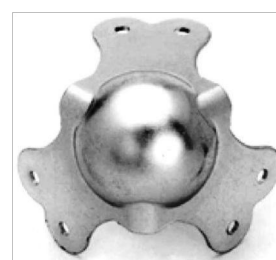
Art.no. 100.C1339/01z (drilled)

| Article no.   |           |             | Dimensions in mm |        |
|---------------|-----------|-------------|------------------|--------|
| Series        | Execution | Material    | Size             | Hole Ø |
|               |           | Zinc plated |                  |        |
|               |           | Steel       |                  |        |
| 100.C1339/01z | .01       | .04         | 50x50            | 5      |



Art.no. 100.C1375 (drilled)

| Article no. |           |             |                 | Dimensions in mm |        |
|-------------|-----------|-------------|-----------------|------------------|--------|
| Series      | Execution | Material    |                 | Size             | Hole Ø |
|             |           | Zinc plated | Raw             |                  |        |
|             |           | Steel       | Stainless steel |                  |        |
| 100.C1375   | .01       | .04         | .30             | 50x50            | 5      |



Art.no. 100.C0650 (drilled)

| Article no. |           |             | Dimensions in mm |        |
|-------------|-----------|-------------|------------------|--------|
| Series      | Execution | Material    | Size             | Hole Ø |
|             |           | Zinc plated |                  |        |
|             |           | Steel       |                  |        |
| 100.C0650   | .01       | .04         | 71,5x71,5        | 5      |





## Suitcase Corners

### Art.no. 100.C1352/00/R5 (drilled)

| Article no.     |           |             | Dimensions in mm |        |
|-----------------|-----------|-------------|------------------|--------|
| Series          | Execution | Material    | Size             | Hole Ø |
|                 |           | Zinc plated |                  |        |
|                 |           | Steel       |                  |        |
| 100.C1352/00/R5 | .01       | .04         | 50x50            | 5      |



### Art.no. 100.C1079 (drilled)

| Article no. |           |             | Dimensions in mm |        |
|-------------|-----------|-------------|------------------|--------|
| Series      | Execution | Material    | Size             | hole Ø |
|             |           | Zinc plated |                  |        |
|             |           | Steel       |                  |        |
| 100.C1079   | .01       | .04         | 49,5x49,5        | 5      |



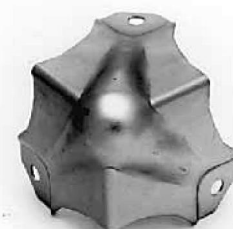
### Art.no. 100.C1080 (drilled)

| Article no. |           |             | Dimensions in mm |        |
|-------------|-----------|-------------|------------------|--------|
| Series      | Execution | Material    | Size             | Hole Ø |
|             |           | Zinc plated |                  |        |
|             |           | Steel       |                  |        |
| 100.C1080   | .01       | .04         | 49,5x49,5        | 5      |



### Art.no 100.C1081 (drilled)

| Article no. |           |             | Dimensions in mm |        |
|-------------|-----------|-------------|------------------|--------|
| Series      | Execution | Material    | Size             | Hole Ø |
|             |           | Zinc plated |                  |        |
|             |           | Steel       |                  |        |
| 100.C1081   | .01       | .04         | 49,5x49,5        | 5      |



## Suitcase Corners

### Art.no. 100.C1537 (drilled)

| Article no. |           |          | Dimensions in mm |        |
|-------------|-----------|----------|------------------|--------|
| Series      | Execution | Material | Size             | Hole Ø |
|             |           | Plastic  |                  |        |
|             |           | ABS      |                  |        |
| 100.C1537   | .01       | .87      | 33x55            | 3,5    |



### Art.no. 100.C1536 (drilled)

| Article no. |           |          | Dimensions in mm |        |
|-------------|-----------|----------|------------------|--------|
| Series      | Execution | Material | Size             | Hole Ø |
|             |           | Plastic  |                  |        |
|             |           | ABS      |                  |        |
| 100.C1536   | .01       | .87      | 83x53            | 4      |



### Art.no. 100.C1567 (drilled)

| Article no. |           |          | Dimensions in mm |        |
|-------------|-----------|----------|------------------|--------|
| Series      | Execution | Material | Size             | Hole Ø |
|             |           | Plastic  |                  |        |
|             |           | ABS      |                  |        |
| 100.C1567   | .01       | .87      | 55x35            | 4      |



### Art.no. 100.C1568 (drilled)

| Article no. |           |          | Dimensions in mm |       |
|-------------|-----------|----------|------------------|-------|
| Series      | Execution | Material | Size             | ole Ø |
|             |           | Plastic  |                  |       |
|             |           | ABS      |                  |       |
| 100.C1568   | .01       | .87      | 83x53            | 4     |





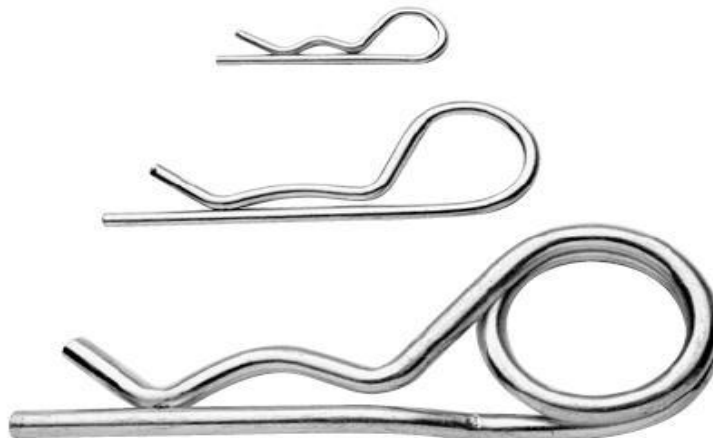
## Linchpins



## Hose clips



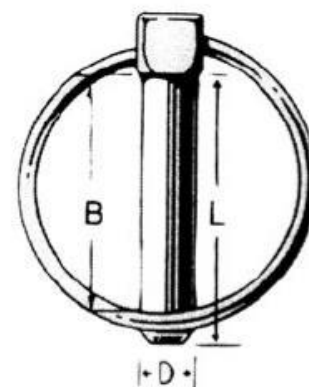
## R-clip



## Linchpins, hose-clips and r-clips

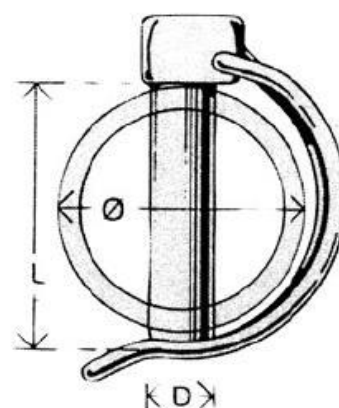
### Linchpins

| Article no. |             | Dimensions in mm |    |      |
|-------------|-------------|------------------|----|------|
| Series      | Material    | Ø D              | L  | B    |
|             | Zinc plated |                  |    |      |
|             | Steel       |                  |    |      |
| 8120        | .04         | 4,5              | 40 | 32,5 |
| 8121        | .04         | 5,2              | 32 | 25,5 |
| 8122        | .04         | 6                | 40 | 32,5 |
| 8123        | .04         | 7                | 40 | 32,5 |
| 8124        | .04         | 8                | 40 | 32,5 |
| 8127        | .04         | 10               | 45 | 35   |
| 8128        | .04         | 11               | 45 | 35   |
| 8129        | .04         | 12               | 45 | 35   |



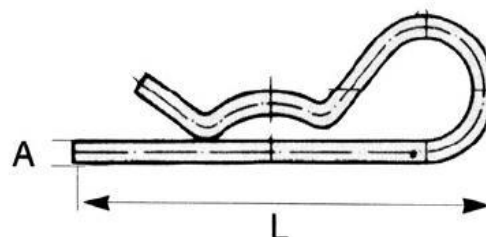
### Hose clips

| Article no. |             | Dimensions in mm |      |    |
|-------------|-------------|------------------|------|----|
| Series      | Material    | Tube Ø           | Ø D  | L  |
|             | Zinc plated |                  |      |    |
|             | Steel       |                  |      |    |
| 8130        | .04         | 28               | 6,0  | 32 |
| 8131        | .04         | 40               | 6,0  | 45 |
| 8132        | .04         | 36               | 8,0  | 40 |
| 8133        | .04         | 40               | 8,0  | 45 |
| 8134        | .04         | 45               | 8,0  | 50 |
| 8135        | .04         | 55               | 8,0  | 60 |
| 8136        | .04         | 45               | 10,0 | 50 |
| 8137        | .04         | 55               | 10,0 | 60 |



### R-clip (simple)

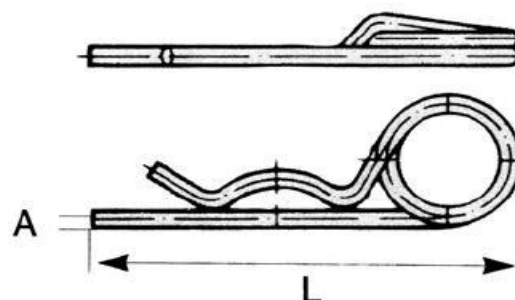
| Article no. |             | Dimensions in mm |   |     |
|-------------|-------------|------------------|---|-----|
| Series      | Material    |                  | A | L   |
|             | Zinc plated | Raw              |   |     |
|             | Steel       | Stainless steel  |   |     |
| 8102        | .04         | .30              | 2 | 41  |
| 8103        | .04         | .30              | 3 | 67  |
| 8104        | .04         | .30              | 4 | 75  |
| 8105        | .04         | .30              | 5 | 105 |
| 8106        | .04         | .30              | 6 | 117 |
| 8107        | .04         | .30              | 7 | 170 |
| 8108        | .04         | .30              | 8 | 155 |



## linchpins, hose- clips and r-clips

### R-clip (double)

| Article no. |             | Dimensions in mm |     |
|-------------|-------------|------------------|-----|
| Series      | Material    | A                | L   |
|             | Zinc plated |                  |     |
| 8112        | .04         | 2                | 56  |
| 8113        | .04         | 3                | 73  |
| 8114        | .04         | 4                | 98  |
| 8115        | .04         | 5                | 111 |
| 8116        | .04         | 6                | 142 |
| 8118        | .04         | 8                | 152 |



# Linchpins, hose-clips and r-clips

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## Spring clips

Now in our program for you – high quality spring clips in different sizes.

The possible applications are extremely diverse: Holding applications for tools of all kinds, component fixtures inside of machines and switchboards, hose routing and safety, as well as effective and inexpensive locking alternatives for doors and valves. If in your workshop or in your product, our spring clips are extremely resilient:

They are made of high quality spring steel and their standard completion is NIROSTA.

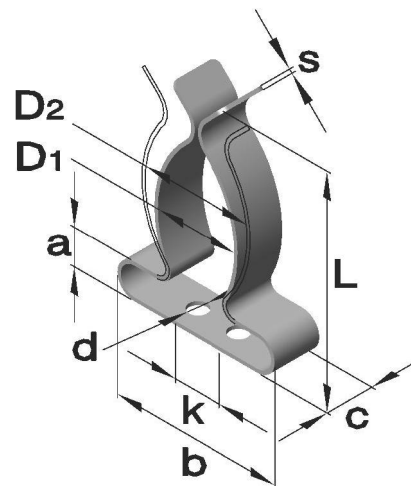


**Art. no.: GS-291**

Spring clip drilled

Material and surface finish:

Raw stainless steel (1.4310)



| Article no. |           |                                          | Dimensions in mm |      |      |     |      |      |      |      |     |   |                       |
|-------------|-----------|------------------------------------------|------------------|------|------|-----|------|------|------|------|-----|---|-----------------------|
| Series      | Execution | Material<br>Stainless steel<br>(Nirosta) | shaft<br>Ø D     | D1   | D2   | Ø d | a    | b    | c    | L    | s   | k | Perforations<br>count |
| GS-291      | -1        | -NI                                      | 6-8              | 5,0  | 8,0  | 3,1 | 4,0  | 13,0 | 6,0  | 17,0 | 0,5 | - | 1                     |
| GS-291      | -2        | -NI                                      | 9-10             | 6,5  | 11,0 | 3,1 | 5,0  | 16,0 | 6,0  | 21,0 | 0,5 | - | 1                     |
| GS-291      | -3        | -NI                                      | 11-14            | 10,0 | 15,0 | 3,1 | 5,0  | 23,0 | 8,0  | 27,0 | 0,5 | - | 1                     |
| GS-291      | -4        | -NI                                      | 15-18            | 14,0 | 19,0 | 3,1 | 5,5  | 26,0 | 8,0  | 30,3 | 0,5 | - | 1                     |
| GS-291      | -5        | -NI                                      | 18-22            | 15,0 | 23,0 | 4,1 | 6,0  | 26,5 | 8,0  | 39,0 | 0,5 | - | 1                     |
| GS-291      | -6        | -NI                                      | 23-26            | 19,0 | 27,0 | 4,1 | 6,5  | 30,0 | 8,0  | 43,0 | 0,6 | - | 1                     |
| GS-291      | -6A       | -NI                                      | 27-29            | 21,5 | 30,0 | 4,1 | 8,0  | 36,5 | 10,0 | 51,0 | 0,7 | - | 1                     |
| GS-291      | -7        | -NI                                      | 30-32            | 26,0 | 33,0 | 5,2 | 9,0  | 46,0 | 13,0 | 60,0 | 1,0 | - | 1                     |
| GS-291      | -7A       | -NI                                      | 33-39            | 30,0 | 40,0 | 5,2 | 10,0 | 49,5 | 13,0 | 64,0 | 1,0 | 9 | 2                     |
| GS-291      | -8        | -NI                                      | 39-45            | 31,0 | 45,0 | 5,2 | 9,0  | 48   | 13,0 | 68,0 | 1,0 | 9 | 2                     |





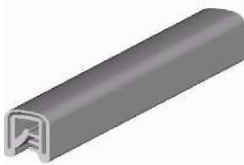
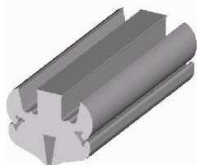
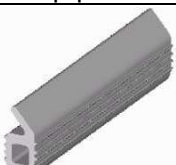
## Edge protector



# Edge protection profiles

## Our delivery program

Flexible edge protection-, Edge protection sealing profiles, Rubber clamping- and Filler profiles, Finger protection profiles, Flat gaskets, Silicon profiles, Alu- and Stainless steel profiles, Assembly, Socket profiles, Cushion profiles, Door sealing profiles, Air-profiles, assembled as a frame, Ring or fixed length, Sponge- and Cellular rubber profiles, PE-foam profiles, Cuttings and punched gaskets.

|                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| Edge protection profiles                                                          | Edge protection sealing profile                                                   | Clamp profiles                                                                      |
|  |  |  |
| Finger protection profiles                                                        | Aluminium and stainless steel profile                                             | Door sealing profile                                                                |

### Materials:

Natural rubber (NR)

Styrene butadiene rubber (SBR)

Ethylene propylene diene rubber (EPDM)

Silicone rubber (VMQ)

Chloroprene rubber (CR)

Nitrile butadiene rubber (NBR)

Fluorinated rubber (FKM, Viton)

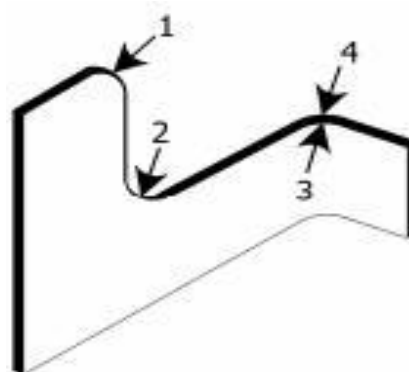
### Minimum bend radius for edge protection profiles

Please notice that all indicated minimum bend radius (in the following charts) serve as a guideline, depending on material, clamping range and application purpose of the used profile.

### Manufacturing tolerances

PVC according to DIN 16941

Tolerances on fixed length, on indication

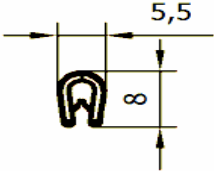
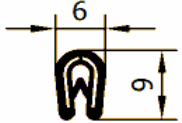
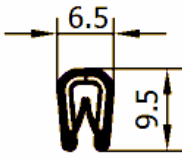
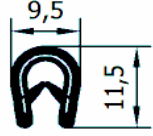
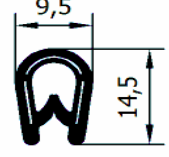
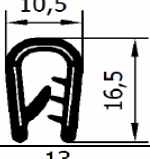
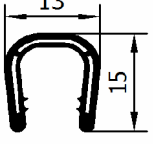


## Flexible edge protection

Made of PVC

With steel spring filling

# Edge protection profiles

|                                                                                     | Article no. | Material       | Clamping range<br>in mm | Bend radius<br>in mm<br>(see Page L-3) | VE    |
|-------------------------------------------------------------------------------------|-------------|----------------|-------------------------|----------------------------------------|-------|
|    | 8316 0 220  | PVC Black      | 0,8 – 1,5               | 1 = 10<br>2 = 10<br>3 = 10<br>4 = 10   | 10 m  |
|    | 8316 0 440  | PVC Black      | 1,0 – 1,8               | 1 = 10<br>2 = 10<br>3 = 10<br>4 = 10   | 100 m |
|                                                                                     | 8316 0 520  | PVC Black      | 1,0 – 1,8               |                                        | 100 m |
|   | 8316 0 620  | PVC White      | 1,0 - 2,0               | 1 = 15<br>2 = 15<br>3 = 10<br>4 = 10   | 100 m |
|                                                                                     | 8316 0 820  | PVC Black      | 1,0 - 2,0               |                                        | 100 m |
|                                                                                     | 8316 0 821  | PVC Black      | 1,5 - 2,5               |                                        | 100 m |
|                                                                                     | 8316 0 823  | PVC Silver     | 1,0 - 2,0               |                                        | 100 m |
|  | 8316 0 221  | PVC Black      | 1,0 – 2,5               | 1 = 20<br>2 = 20<br>3 = 15<br>4 = 15   | 100 m |
|                                                                                     | 8316 0 222  | PVC Black      | 2,0 – 4,0               |                                        | 100 m |
|  | 8316 0 320  | PVC Black      | 1,0 - 4,0               | 1 = 30<br>2 = 20<br>3 = 20<br>4 = 20   | 100 m |
|                                                                                     | 8316 0 720  | PVC Anthrazit  | 1,0 - 4,0               |                                        | 100 m |
|                                                                                     | 8316 0 920  | PVC light grey | 1,0 - 4,0               |                                        | 100 m |
|  | 8316 0 135  | PVC Black      | 1,0 - 2,5               | 1 = 50<br>2 = 40<br>3 = 30<br>4 = 30   | 100 m |
|                                                                                     | 8316 0 136  | PVC Black      | 2,0 - 4,0               |                                        | 100 m |
|                                                                                     | 831600137   | PVC Black      | 4,0 - 6,0               |                                        | 100 m |
|  | 8316 0 740  | PVC light grey | 6,0 - 8,0               | 1 = 40<br>2 = 40<br>3 = 40<br>4 = 40   | 100 m |
|                                                                                     | 8316 0 741  | PVC Black      | 6,0 - 8,0               |                                        | 100 m |
|                                                                                     | 8316 0 742  | PVC Black      | 8,0 - 10,0              |                                        | 100 m |

# Edge protection profiles

## Flexible edge protection profiles

With steel spring filling

With sealed on foam rubber EPDM

|  | Article no. | Material                                        | Clamping range<br>in mm | Bend radius<br>in mm<br>(see Page L-3) | VE                   |
|--|-------------|-------------------------------------------------|-------------------------|----------------------------------------|----------------------|
|  | 8316 0 840  | PVC Black<br>/ EPDM Black                       | 1,0 - 4,0               | 1 = 70<br>2 = 80<br>3 = 15<br>4 = 15   | 50 m                 |
|  | 8316 0 950  | PVC Black<br>(70° ± 5°) Shore A<br>/ EPDM Black | 1,0 - 2,0               | 1 = 20<br>2 = 15<br>3 = 30<br>4 = 50   | 10 m<br>(Roll 100 m) |
|  | 8316 0 150  | PVC Black<br>(70° ± 5°) Shore A<br>/ EPDM Black | 1,0 - 4,0               | 1 = 50<br>2 = 30<br>3 = 100<br>4 = 120 | 5 m<br>(Roll 50 m)   |
|  | 8316 0 153  | PVC Black<br>/ EPDM Black                       | 1,0 - 4,0               | 1 = 50<br>2 = 30<br>3 = 100<br>4 = 120 | 50 m                 |
|  | 8316 0 640  | PVC Black<br>/ EPDM Black                       | 1,0 - 4,0               | 1 = 50<br>2 = 30<br>3 = 100<br>4 = 120 | 50 m                 |

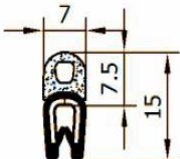
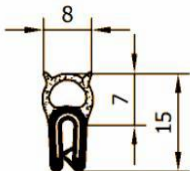
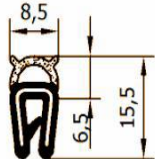
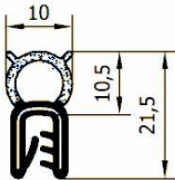
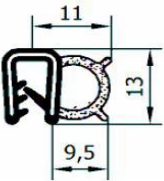
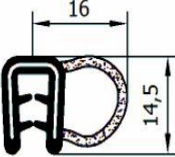
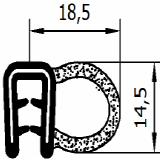


## Edge protection profiles

### Flexible edge protection and seal profiles

With steel spring filling

With sealed on foam rubber EPDM/NBR

|                                                                                     | Article no.  | Material                                                 | Clamping range<br>in mm | Bend radius<br>in mm<br>(see Page L-3) | VE                   |
|-------------------------------------------------------------------------------------|--------------|----------------------------------------------------------|-------------------------|----------------------------------------|----------------------|
|    | 8316 0 960   | PVC Black<br>(70° ± 5°) Shore A<br>/ EPDM Black          | 1,0 - 2,0               | 1= 20<br>2= 40<br>3= 10<br>4= 10       | 10 m<br>(Roll 100 m) |
|   | 8316 0 003   | PVC Black<br>/ EPDM Black<br>soft                        | 0,5 - 1,5               | 1= 50<br>2= 80<br>3= 25<br>4= 25       | 50 m                 |
|  | 8316 0 005   | EPDM Black<br>(65° ± 5°) Shore A<br>/ EPDM Black<br>soft | 0,8 - 2,0               | 1= 50<br>2= 60<br>3= 20<br>4= 20       | 5 m<br>(Roll 50 m)   |
|  | 8316 0 010   | EPDM Black<br>(65° ± 5°) Shore A<br>/ EPDM Black<br>soft | 1,0 - 3,5               | 1= 50<br>2= 180<br>3= 30<br>4= 30      | 5 m<br>(Roll 50 m)   |
|                                                                                     | 8316 0 010-1 | NBR Black<br>(60° ± 5°) Shore A<br>/<br>NBR Black        | 3,0 - 5,0               | 1= 50<br>2= 150<br>3= 50<br>4= 50      | 5 m<br>(Roll 50 m)   |
|  | 8316 0 025   | EPDM Black<br>(65° ± 5°) Shore A<br>/ EPDM Black<br>soft | 1,0 - 3,5               | 1= 50<br>2= 20<br>3= 120<br>4= 40      | 5 m<br>(Roll 50 m)   |
|                                                                                     | 8316 0 026   | NBR schwarz<br>(60° ± 5°) Shore A<br>/<br>NBR Black      | 1,0 - 3,5               |                                        | 5 m<br>(Roll 50 m)   |
|  | 8316 0 040   | PVC Black<br>/ EPDM Black<br>soft                        | 1,0 - 3,0               | 1= 40<br>2= 30<br>3= 180<br>4= 40      | 50 m                 |
|  | 8316 0 060   | PVC Black<br>/ EPDM Black<br>soft                        | 1,5 - 3,0               | 1= 80<br>2= 60<br>3= 200<br>4= 80      | 25 m                 |

# Edge protection profiles

## Flexible edge protection and seal profiles

With steel spring filling  
With sealed on foam rubber

|  | Article no. | Material                                            | Clamping range in mm | Bend radius in mm<br>(see Page L-3) | VE                 |
|--|-------------|-----------------------------------------------------|----------------------|-------------------------------------|--------------------|
|  | 8316 0 045  | EPDM Black<br>(65° ± 5°) Shore A<br>/<br>EPDM Black | 1,0 - 2,5            | 1= 80<br>2= 40<br>3= 200<br>4= 200  | 5 m<br>(Roll 50 m) |
|  | 8316 0 065  | PVC Black<br>/ EPDM Black<br>soft                   | 1,0 - 3,5            | 1= 40<br>2= 30<br>3= 180<br>4= 40   | 50 m               |
|  | 83160060-1  | EPDM Black<br>(65° ± 5°) Shore A<br>/<br>EPDM Black | 1 - 3,5              | 1= 50<br>2= 40<br>3= 200<br>4= 50   | 5 m<br>(Roll 50 m) |

## Edge protection and seal profiles

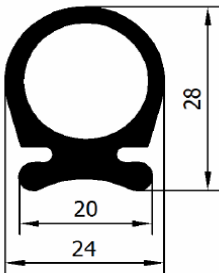
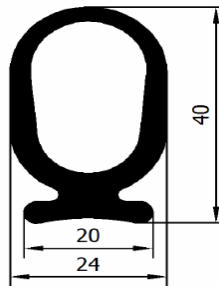
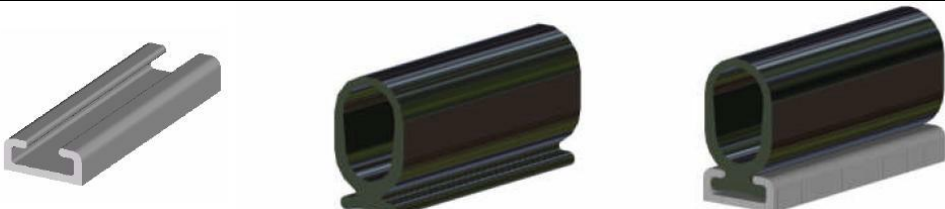
With metal insert  
FDA- conformal

|  | Article no. | Material | Clamping range in mm | VE   |
|--|-------------|----------|----------------------|------|
|  | 8316 9 158  | Silicon  | 2,0                  | 50 m |

# Edge protection profiles

## Finger protection profiles

Made of rubber EPDM

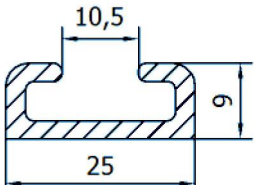
|                                                                                      | Article no. | Material          | VE   |
|--------------------------------------------------------------------------------------|-------------|-------------------|------|
|     | 8330 0 140  | Rubber EPDM Black | 30 m |
|    | 8330 0 080  | Rubber EPDM Black | 30 m |
|  |             |                   |      |

## Aluminiumprofile

Suitable for:

Art. no. 8330 0 140

Art. no. 8330 0 080

|                                                                                     | Article no. | Material  | Length  | VE   |
|-------------------------------------------------------------------------------------|-------------|-----------|---------|------|
|  | 8101 0 020  | Aluminium | 5000 mm | 50 m |

# Edge protection profiles

## Seal profiles

Made of EPDM

|  | Artikel Nr. | Material   | Clamping range<br>in mm | Bend radius<br>in mm<br>(see Page L-3) | VE                 |
|--|-------------|------------|-------------------------|----------------------------------------|--------------------|
|  | 83300004-1  | EPDM Black | 1 - 1,6                 | -                                      | 5 m<br>(Roll 50 m) |
|  | 83300004-2  | EPDM Black | 1,5 - 2                 | 1= 80<br>2= 30<br>3= 10<br>4= 10       | 5 m<br>(Roll 50 m) |

## Door sealing profiles

Different quality on request.

|  |  | H<br>in mm | h<br>in mm | AH<br>in mm | Article no. | Material                                      | VE                 |
|--|--|------------|------------|-------------|-------------|-----------------------------------------------|--------------------|
|  |  | 21         | 13,5       | 20          | 83030570-1  | EPDM<br>55° Shore A<br>Black                  | 5 m<br>(Roll 50 m) |
|  |  | 27         | 19,5       | 26          | 83030270-1  |                                               |                    |
|  |  | 26,5       | -          | 24          | 83030770-1  | Sponge rubber<br>EPDM<br>25° Shore A<br>Black | 5 m<br>(Roll 50 m) |

Further materials and surface finishes on demand. We will be pleased to give you advice.

Phone: +49 (0) 231 / 725 790 -0

Fax: +49 (0) 231 / 725 790 -10

eMail:

Homepage:

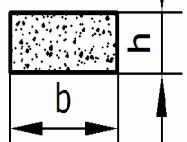
[info@hokon-verschlusstechnik.de](mailto:info@hokon-verschlusstechnik.de)

[www.hokon-verschlusstechnik.de](http://www.hokon-verschlusstechnik.de)

# Edge protection profiles

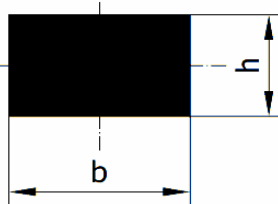
## Sponge rubber-square and rectangle profiles

Made of EPDM, or CR  
NBR on request

|  | b x h<br>in mm | Artikel Nr. |             |             | VE    |
|-----------------------------------------------------------------------------------|----------------|-------------|-------------|-------------|-------|
|                                                                                   |                | Werkstoff   |             |             |       |
|                                                                                   |                | EPDM        |             | CR          | 100 m |
|                                                                                   |                | schwarz     | hellgrau    | schwarz     |       |
|                                                                                   | 10 x 2         | 8313 2 0100 | 8313 2 0500 | 8313 3 0100 |       |

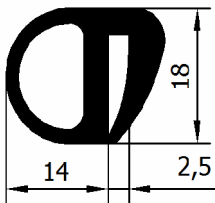
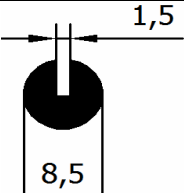
## Viton-Caoutchouc, round-, square- and rectangle profiles

Made of FKM (Fluorkautschuk).  
Hardness 75 ± 5 ° Shore A  
Different dimensions on request.

|  | b x h<br>in mm | Article no. | Material  |
|-------------------------------------------------------------------------------------|----------------|-------------|-----------|
|                                                                                     | 5 x 2          | 8382 9 200  | FKM Black |
|                                                                                     | 10 x 2         | 8382 9 201  | FKM Black |
|                                                                                     | 10 x 5         | 8382 9 202  | FKM Black |
|                                                                                     | 12 x 5         | 8382 9 203  | FKM Black |
|                                                                                     | 15 x 3         | 8382 9 204  | FKM Black |
|                                                                                     | 15 x 5         | 8382 9 205  | FKM Black |
|                                                                                     | 15 x 10        | 8382 9 206  | FKM Black |
|                                                                                     | 20 x 2         | 8382 9 207  | FKM Black |
|                                                                                     | 20 x 5         | 8382 9 208  | FKM Black |
|                                                                                     | 20 x 10        | 8382 9 209  | FKM Black |
|                                                                                     | 20 x 12        | 8382 9 210  | FKM Black |

## Viton-Caoutchouc –special profiles

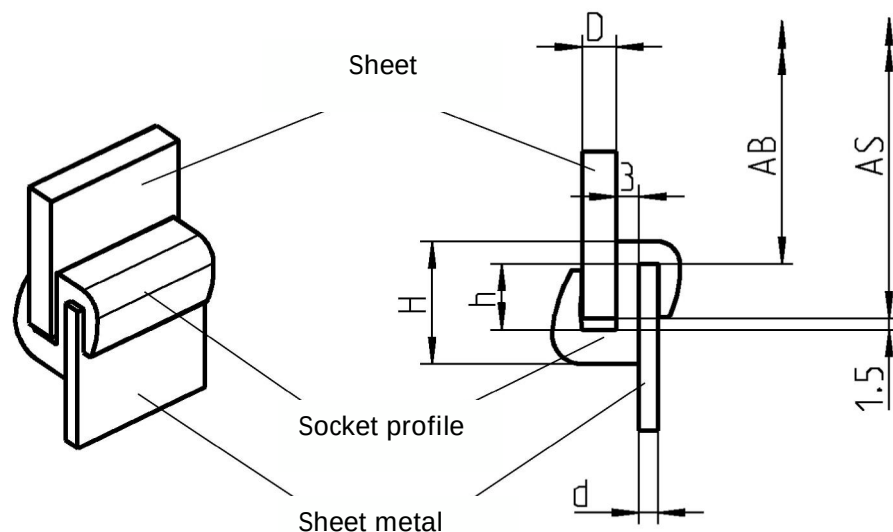
FKM (Fluorkautschuk)  
Hardness 75 ± 5 ° Shore A

|  | Article no. | Material                | VE    |
|-------------------------------------------------------------------------------------|-------------|-------------------------|-------|
|                                                                                     | 8382 9 311  | FKM<br>(Fluorkautschuk) | 25 m  |
|  | 8382 9 313  | FKM<br>(Fluorkautschuk) | 100 m |

## Edge protection profiles

### Socket profiles

Made of EPDM or NBR



| Article no.  | Material         |                 | Dimensions |   |      |     | Bend radius<br>in mm | VE                 |
|--------------|------------------|-----------------|------------|---|------|-----|----------------------|--------------------|
|              | Black            | Black           | D          | d | H    | h   |                      |                    |
| 838 0 9456-1 | EPDM 60° Shore A | -               | 4          | 2 | 16,2 | 8,7 | ≥ 40                 | 5 m<br>(Roll 50 m) |
| 838 0 9456-2 | EPDM 60° Shore A | -               | 6          | 2 | 16,2 | 8,7 | ≥ 40                 | 5 m<br>(Roll 50 m) |
| 838 0 9456-3 | -                | NBR 80° Shore A | 4          | 2 | 16,2 | 8,7 | ≥ 40                 | 5 m<br>(Roll 50 m) |
| 838 0 9456-4 | -                | NBR 80° Shore A | 6          | 2 | 16,2 | 8,7 | ≥ 40                 | 5 m<br>(Roll 50 m) |

$$AB + 14,5 \text{ mm} = AS$$





## Rubber-metal-buffers





## Rubber-metal-buffers

### Our delivery program:

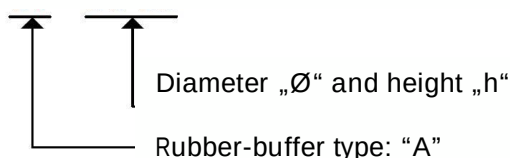
1. Rubber-buffer-program
  2. Rubber-moulded parts according to drawing
  3. Rubber-metal-moulded parts according to drawing
  4. Metalparts chromated
  5. Metalparts galvanized
  6. Metalparts powder-coated
  8. Thread lengths can be manufactured differently from the regular program
  7. Metalparts V2a
  9. Rubber hardness from 35° to 90° shore
  10. Sundry Rubbermaterials are possible
- Technical modifications and errors excepted

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| Rubber-metal-buffers, Typ C               | Page M-9 – M-10  |
| Rubber-metal-buffers, Typ D               | Page M-11 – M-12 |
| Rubber-metal-buffers, Typ E               | Page M-13 – M-14 |
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| Material overview                         | Page M-25        |

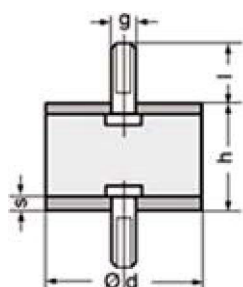
### Ordering example:

Art.no. H – 01 – 06 06

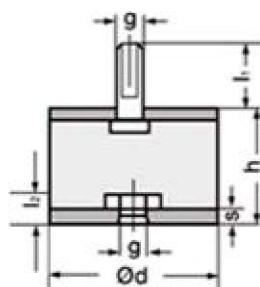


## Rubber-metal-buffer

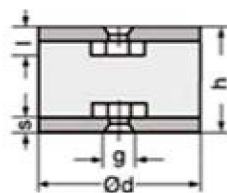
### Rubber-metal-buffer



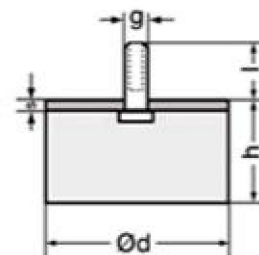
Typ "A"



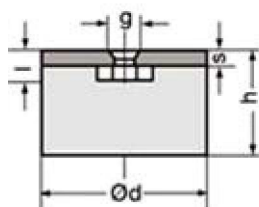
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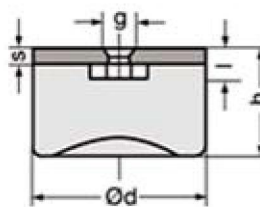
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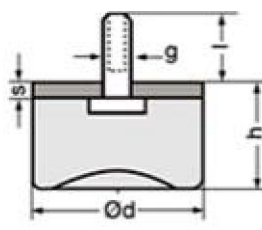
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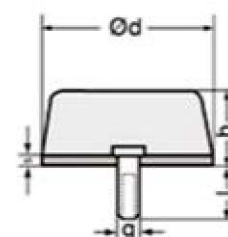
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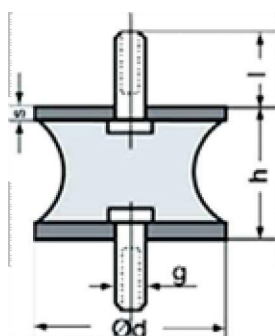
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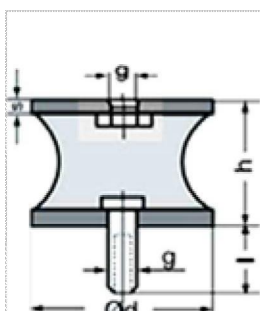
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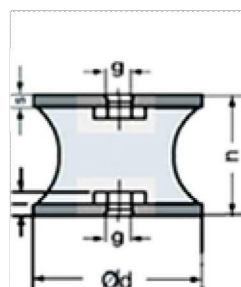
Type "K"  
conical



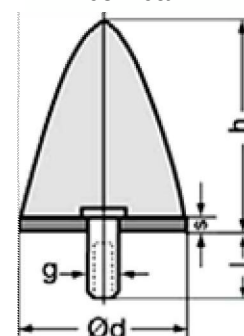
Type "TA"  
waisted



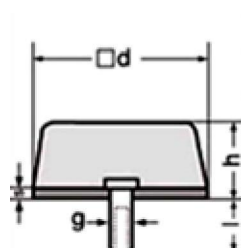
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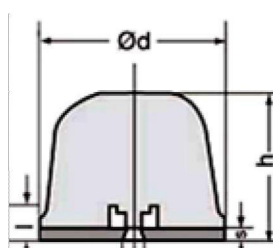
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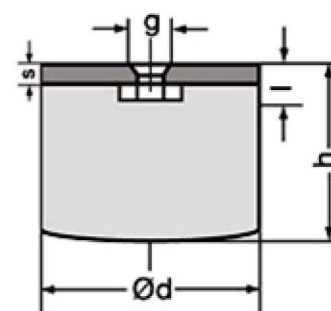
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parabolic



Type "KV"  
conical-square



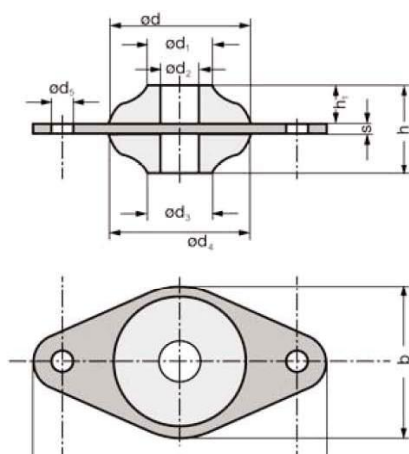
Type "KE"



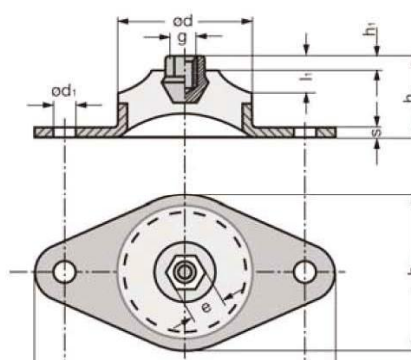
„Crane-bump stop“

## Rubber-metal-buffer

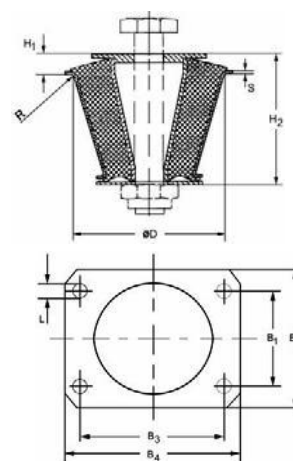
### Rubber-metal-elements



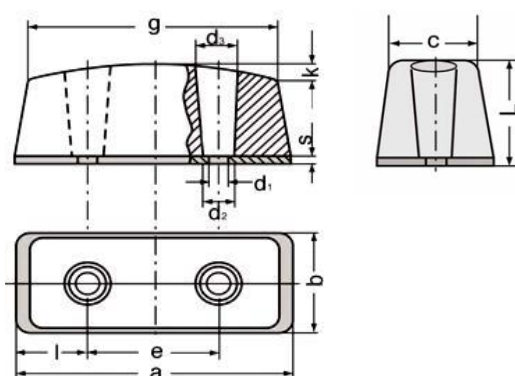
„Flange-elements“



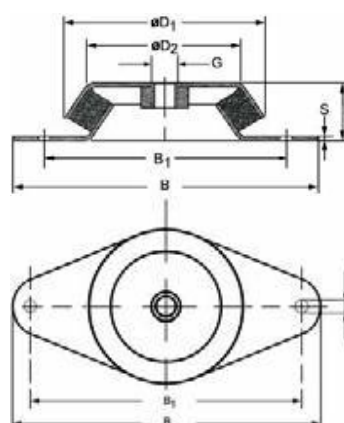
„Hat-elements“



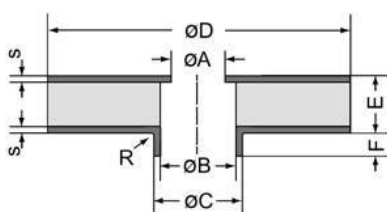
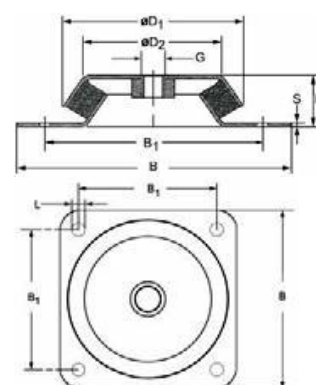
„Cone bearings“



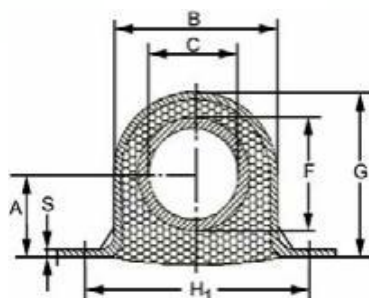
„Gear-cushion“



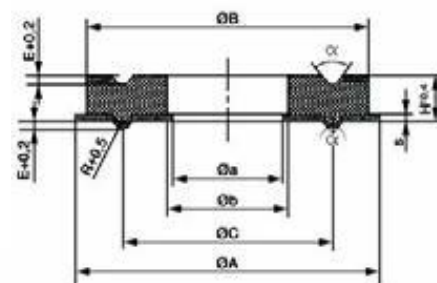
„Maschine feed“



„Ring-elements“



„Clip-elements“



„Spring washers“

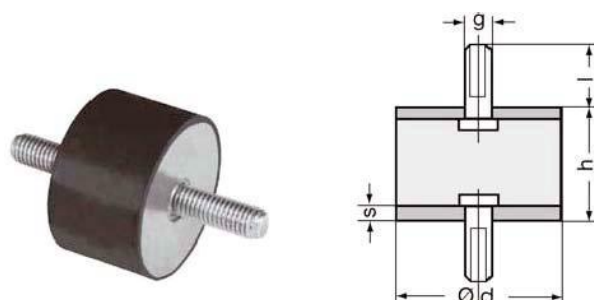
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "A"

With threaded bolt, duplex

Natural rubber in 55° shore -"intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.  | Dimensions in mm |     |    |    |     |
|--------------|------------------|-----|----|----|-----|
|              | Ø d              | h   | g  | l  | S   |
| H-01-0808    | 8                | 8   | M3 | 6  | 2   |
|              |                  |     |    |    |     |
| H-01-01010   | 10               | 10  | M4 | 11 | 2   |
| H-01-01015   | 10               | 15  | M4 | 12 | 2   |
| H-01-01021   | 10               | 21  | M4 | 11 | 2   |
|              |                  |     |    |    |     |
| H-01-01310   | 13               | 10  | M4 | 12 | 2   |
|              |                  |     |    |    |     |
| H-01-01508   | 15               | 8   | M4 | 12 | 2   |
| H-01-01510   | 15               | 10  | M4 | 12 | 2   |
| H-01-01515   | 15               | 15  | M4 | 12 | 2   |
| H-01-01520   | 15               | 20  | M4 | 12 | 2   |
| H-01-01530   | 15               | 30  | M4 | 12 | 2   |
|              |                  |     |    |    |     |
| H-01-018/8,5 | 18               | 8,5 | M4 | 18 | 2   |
| H-01-01810   | 18               | 10  | M4 | 18 | 2   |
|              |                  |     |    |    |     |
| H-01-02008   | 20               | 8   | M6 | 18 | 2,5 |
| H-01-02010   | 20               | 10  | M6 | 18 | 2,5 |
| H-01-02012   | 20               | 12  | M6 | 18 | 2,5 |
| H-01-02015   | 20               | 15  | M6 | 18 | 2,5 |
| H-01-02020   | 20               | 20  | M6 | 18 | 2,5 |
| H-01-02025   | 20               | 25  | M6 | 18 | 2,5 |
|              |                  |     |    |    |     |
| H-01-02510   | 25               | 10  | M6 | 18 | 2,5 |
|              |                  |     |    |    |     |
| H-01-02515   | 25               | 15  | M6 | 18 | 2,5 |
| H-01-02520   | 25               | 20  | M6 | 18 | 2,5 |

| Article no.    | Dimensions in mm |    |     |    |     |
|----------------|------------------|----|-----|----|-----|
|                | Ø d              | h  | g   | l  | S   |
| H-01-02525     | 25               | 25 | M6  | 18 | 2,5 |
| H-01-02530     | 25               | 30 | M6  | 18 | 2,5 |
|                |                  |    |     |    |     |
| H-01-03012     | 30               | 12 | M8  | 23 | 2,5 |
| H-01-03015     | 30               | 15 | M8  | 23 | 2,5 |
| H-01-03020     | 30               | 20 | M8  | 23 | 2,5 |
| H-01-03025     | 30               | 25 | M8  | 23 | 2,5 |
| H-01-03030     | 30               | 30 | M8  | 23 | 2,5 |
| H-01-03040     | 30               | 40 | M8  | 23 | 2,5 |
|                |                  |    |     |    |     |
| H-01-03516     | 35               | 16 | M8  | 23 | 2,5 |
|                |                  |    |     |    |     |
| H-01-04008     | 40               | 8  | M8  | 23 | 2,5 |
| H-01-04015     | 40               | 15 | M8  | 23 | 2,5 |
| H-01-04020     | 40               | 20 | M8  | 23 | 2,5 |
| H-01-04025-M8  | 40               | 25 | M8  | 23 | 2,5 |
| H-01-04025-M10 | 40               | 25 | M10 | 20 | 2,5 |
| H-01-04030     | 40               | 30 | M8  | 23 | 2,5 |
| H-01-04030-M10 | 40               | 30 | M10 | 23 | 2,5 |
| H-01-04035     | 40               | 35 | M8  | 23 | 2,5 |
| H-01-04040     | 40               | 40 | M8  | 23 | 2,5 |
| H-01-04050     | 40               | 50 | M8  | 23 | 2,5 |



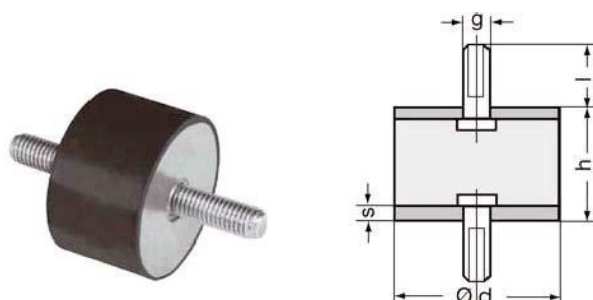
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "A"

With threaded bolt, duplex

Natural rubber in 55° shore -"intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.    | Dimensions in mm |    |     |    |     |
|----------------|------------------|----|-----|----|-----|
|                | Ø d              | h  | g   | l  | S   |
| H-01-05015     | 50               | 15 | M10 | 28 | 2,5 |
| H-01-05017     | 50               | 17 | M10 | 28 | 2,5 |
| H-01-05020     | 50               | 20 | M10 | 28 | 2,5 |
| H-01-05025     | 50               | 25 | M10 | 28 | 2,5 |
| H-01-05030     | 50               | 30 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-05040     | 50               | 40 | M10 | 28 | 2,5 |
| H-01-05045     | 50               | 45 | M10 | 28 | 2,5 |
| H-01-05050     | 50               | 50 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-05080     | 50               | 80 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-06020-M10 | 60               | 20 | M10 | 28 | 2,5 |
| H-01-06020-M12 | 60               | 20 | M12 | 37 | 2,5 |
| H-01-06030-M10 | 60               | 30 | M10 | 28 | 2,5 |
| H-01-06030-M12 | 60               | 30 | M12 | 37 | 2,5 |
| H-01-06040-M10 | 60               | 40 | M10 | 28 | 2,5 |
| H-01-06040-M12 | 60               | 40 | M12 | 37 | 2,5 |
| H-01-06050     | 60               | 50 | M10 | 28 | 2,5 |
| H-01-06060-M10 | 60               | 60 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-06560     | 65               | 60 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-07030     | 70               | 30 | M10 | 28 | 2,5 |
| H-01-07040-M10 | 70               | 40 | M10 | 28 | 2,5 |
| H-01-07045-M10 | 70               | 45 | M10 | 28 | 2,5 |
| H-01-07045-M12 | 70               | 45 | M12 | 37 | 2,5 |
| H-01-07050     | 70               | 50 | M10 | 28 | 2,5 |
| H-01-07055     | 70               | 55 | M10 | 28 | 2,5 |
| H-01-07060     | 70               | 60 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-01-07525     | 75               | 25 | M12 | 37 | 2,5 |
| H-01-07530     | 75               | 30 | M12 | 37 | 2,5 |
| H-01-07540     | 75               | 40 | M12 | 37 | 2,5 |

| Article no. | Dimensions in mm |     |     |    |     |
|-------------|------------------|-----|-----|----|-----|
|             | Ø d              | h   | g   | l  | S   |
| H-01-07545  | 75               | 45  | M12 | 37 | 2,5 |
| H-01-07550  | 75               | 50  | M12 | 37 | 2,5 |
| H-01-07555  | 75               | 55  | M12 | 37 | 2,5 |
| H-01-07560  | 75               | 60  | M12 | 37 | 2,5 |
| H-01-07570  | 75               | 70  | M12 | 37 | 2,5 |
| H-01-07575  | 75               | 75  | M12 | 37 | 2,5 |
|             |                  |     |     |    |     |
| H-01-08030  | 80               | 30  | M12 | 37 | 2,5 |
| H-01-08040  | 80               | 40  | M12 | 37 | 2,5 |
|             |                  |     |     |    |     |
| H-01-08585  | 85               | 85  | M16 | 43 | 2,5 |
|             |                  |     |     |    |     |
| H-01-10040  | 100              | 40  | M16 | 43 | 3   |
| H-01-10050  | 100              | 50  | M16 | 43 | 3   |
| H-01-10055  | 100              | 55  | M16 | 43 | 3   |
| H-01-10060  | 100              | 60  | M16 | 43 | 3   |
| H-01-10075  | 100              | 75  | M16 | 43 | 3   |
|             |                  |     |     |    |     |
|             |                  |     |     |    |     |
| H-01-12575  | 125              | 75  | M16 | 43 | 4   |
|             |                  |     |     |    |     |
|             |                  |     |     |    |     |
| H-01-15050  | 150              | 50  | M16 | 43 | 4   |
| H-01-15055  | 150              | 55  | M16 | 43 | 4   |
|             |                  |     |     |    |     |
| H-01-15075  | 150              | 75  | M16 | 43 | 4   |
| H-01-150100 | 150              | 100 | M16 | 43 | 4   |
|             |                  |     |     |    |     |
|             |                  |     |     |    |     |
|             |                  |     |     |    |     |
| H-01-200100 | 200              | 100 | M20 | 45 | 6   |

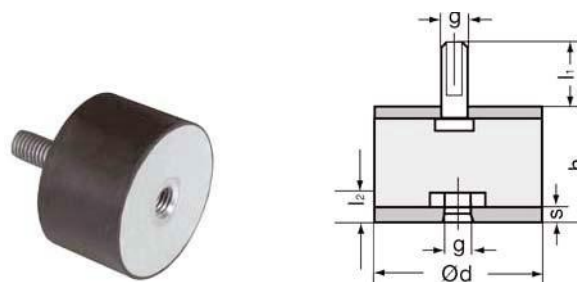


## Rubber-metal-buffer

### Rubber-metal-buffer, Type "B"

With threaded bolt on the one hand,  
internal thread on the other hand

Natural rubber in 55° shore -"intermediate"  
On request also available 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |    |    |    |    |     |
|-------------|------------------|----|----|----|----|-----|
|             | Ø d              | h  | g  | l1 | l2 | s   |
| H-02-0607   | 6                | 7  | M3 | 6  | 3  | 2   |
| H-02-0808   | 8                | 8  | M3 | 6  | 3  | 2   |
| H-02-01008  | 10               | 8  | M4 | 10 | 4  | 2   |
| H-02-01010  | 10               | 10 | M4 | 10 | 4  | 2   |
| H-02-01015  | 10               | 15 | M4 | 10 | 4  | 2   |
| H-02-01020  | 10               | 20 | M4 | 10 | 4  | 2   |
| H-01310     | 13               | 10 | M4 | 10 | 4  | 2   |
| H-02-01508  | 15               | 8  | M4 | 10 | 4  | 2   |
| H-02-01510  | 15               | 10 | M4 | 10 | 4  | 2   |
| H-02-01512  | 15               | 12 | M4 | 10 | 4  | 2   |
| H-02-01515  | 15               | 25 | M4 | 10 | 4  | 2   |
| H-02-01520  | 15               | 20 | M4 | 10 | 4  | 2   |
| H-02-01525  | 15               | 25 | M4 | 11 | 4  | 2   |
| H-02-01530  | 15               | 30 | M4 | 10 | 4  | 2   |
| H-02-02015  | 20               | 15 | M6 | 18 | 6  | 2,5 |
| H-02-02020  | 20               | 20 | M6 | 18 | 6  | 2,5 |
| H-02-02025  | 20               | 25 | M6 | 18 | 6  | 2,5 |
| H-02-02030  | 20               | 30 | M6 | 18 | 6  | 2,5 |
| H-02-02515  | 25               | 15 | M6 | 18 | 6  | 2,5 |
| H-02-02520  | 25               | 20 | M6 | 18 | 6  | 2,5 |
| H-02-02525  | 25               | 25 | M6 | 18 | 6  | 2,5 |
| H-02-02530  | 25               | 30 | M6 | 18 | 6  | 2,5 |
| H-02-02535  | 25               | 35 | M6 | 18 | 6  | 2,5 |
| H-02-02540  | 25               | 40 | M6 | 18 | 6  | 2,5 |
| H-02-03015  | 30               | 15 | M8 | 23 | 8  | 2,5 |
| H-02-03020  | 30               | 20 | M8 | 23 | 8  | 2,5 |
| H-02-03025  | 30               | 25 | M8 | 23 | 8  | 2,5 |
| H-02-03030  | 30               | 30 | M8 | 23 | 8  | 2,5 |
| H-02-03040  | 30               | 40 | M8 | 23 | 8  | 2,5 |
| H-02-03045  | 30               | 45 | M8 | 23 | 8  | 2,5 |
| H-02-03085  | 30               | 85 | M8 | 23 | 8  | 2,5 |

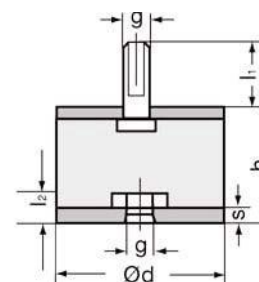
| Article no.    | Dimensions in mm |    |     |    |    |     |
|----------------|------------------|----|-----|----|----|-----|
|                | Ø d              | h  | g   | l1 | l2 | S   |
| H-02-04020     | 40               | 20 | M8  | 23 | 8  | 2,5 |
| H-02-04020-M10 | 40               | 20 | M10 | 28 | 10 | 2,5 |
| H-02-04025-M8  | 40               | 25 | M8  | 23 | 8  | 2,5 |
| H-02-04035     | 40               | 35 | M8  | 23 | 8  | 2,5 |
| H-02-04040     | 40               | 40 | M8  | 23 | 8  | 2,5 |
| H-02-04045     | 40               | 45 | M8  | 23 | 8  | 2,5 |
| H-02-04550     | 45               | 50 | M8  | 23 | 8  | 2,5 |
| H-02-05020     | 50               | 20 | M10 | 28 | 10 | 2,5 |
| H-02-05025     | 50               | 25 | M10 | 28 | 10 | 2,5 |
| H-02-05030     | 50               | 30 | M10 | 28 | 10 | 2,5 |
| H-02-05040     | 50               | 40 | M10 | 28 | 10 | 2,5 |
| H-02-05045     | 50               | 45 | M10 | 28 | 10 | 2,5 |
| H-02-05050     | 50               | 50 | M10 | 28 | 10 | 2,5 |
| H-02-05055     | 50               | 55 | M10 | 28 | 10 | 2,5 |
| H-02-05080     | 50               | 80 | M10 | 28 | 10 | 2,5 |
| H-02-06030     | 60               | 30 | M10 | 28 | 10 | 2,5 |
| H-02-06030-M12 | 60               | 30 | M12 | 37 | 12 | 2,5 |
| H-02-06040     | 60               | 40 | M10 | 28 | 10 | 2,5 |
| H-02-06040-M12 | 60               | 40 | M12 | 37 | 12 | 2,5 |
| H-02-06045     | 60               | 45 | M10 | 28 | 10 | 2,5 |
| H-02-06045-M12 | 60               | 45 | M12 | 37 | 12 | 2,5 |
| H-02-06050     | 60               | 50 | M10 | 28 | 10 | 2,5 |
| H-02-06050-M12 | 60               | 50 | M12 | 37 | 12 | 2,5 |
| H-02-06060     | 60               | 60 | M10 | 28 | 10 | 2,5 |
| H-02-06060-M12 | 60               | 60 | M12 | 37 | 12 | 2,5 |

## Rubber-metal-buffer

### Rubber-metal-buffer, Type "B"

With threaded bolt on the one hand,  
internal thread on the other hand

Natural rubber in 55° shore -"intermediate"  
On request also available 45°, 65°, 70° Shore



| Article no.    | Dimensions in mm |    |     |    |    |     |
|----------------|------------------|----|-----|----|----|-----|
|                | Ø d              | h  | g   | l1 | l2 | s   |
| H-02-07030     | 70               | 30 | M10 | 28 | 10 | 2,5 |
| H-02-07040     | 70               | 40 | M10 | 28 | 10 | 2,5 |
| H-02-07040-M12 | 70               | 40 | M12 | 37 | 12 | 2,5 |
| H-02-07045     | 70               | 45 | M10 | 28 | 10 | 2,5 |
| H-02-07045-M12 | 70               | 45 | M12 | 37 | 12 | 2,5 |
| H-02-07050     | 70               | 50 | M10 | 28 | 10 | 2,5 |
|                |                  |    |     |    |    |     |
| H-02-07055     | 70               | 55 | M10 | 28 | 10 | 2,5 |
| H-02-07055-M12 | 70               | 55 | M12 | 37 | 12 | 2,5 |
|                |                  |    |     |    |    |     |
| H-02-07525     | 75               | 25 | M12 | 37 | 12 | 2,5 |
| H-02-07530     | 75               | 30 | M12 | 37 | 12 | 2,5 |
| H-02-07540     | 75               | 40 | M12 | 37 | 12 | 2,5 |
| H-02-07545     | 75               | 45 | M12 | 37 | 12 | 2,5 |
| H-02-07550     | 75               | 50 | M12 | 37 | 12 | 2,5 |
| H-02-07555     | 75               | 55 | M12 | 37 | 12 | 2,5 |
| H-02-07570     | 75               | 70 | M12 | 37 | 12 | 2,5 |
|                |                  |    |     |    |    |     |
| H-02-08030     | 80               | 30 | M12 | 37 | 12 | 2,5 |
| H-02-08040     | 80               | 40 | M12 | 37 | 12 | 2,5 |
|                |                  |    |     |    |    |     |
| H-02-08585     | 85               | 85 | M12 | 37 | 12 | 2,5 |
|                |                  |    |     |    |    |     |
| H-02-10040     | 100              | 40 | M16 | 43 | 16 | 2,5 |
| H-02-10050     | 100              | 50 | M16 | 43 | 16 | 2,5 |
| H-02-10055     | 100              | 55 | M16 | 43 | 16 | 2,5 |
| H-02-10060     | 100              | 60 | M16 | 43 | 16 | 2,5 |
| H-02-10075     | 100              | 75 | M16 | 43 | 16 | 2,5 |
| H-02-10090     | 100              | 90 | M16 | 43 | 16 | 2,5 |

| Article no. | Dimensions in mm |     |     |    |    |     |
|-------------|------------------|-----|-----|----|----|-----|
|             | Ø d              | h   | g   | l1 | l2 | S   |
| H-02-12570  | 125              | 70  | M16 | 43 | 16 | 2,5 |
| H-02-12575  | 125              | 75  | M16 | 43 | 16 | 2,5 |
| H-02-125100 | 125              | 100 | M16 | 43 | 16 | 2,5 |
|             |                  |     |     |    |    |     |
| H-02-15050  | 150              | 50  | M16 | 43 | 16 | 2,5 |
| H-02-15055  | 150              | 55  | M16 | 43 | 16 | 2,5 |
| H-02-15075  | 150              | 75  | M16 | 43 | 16 | 2,5 |
| H-02-150150 | 150              | 150 | M16 | 43 | 16 | 2,5 |
| H-02-150200 | 150              | 200 | M16 | 43 | 16 | 2,5 |
|             |                  |     |     |    |    |     |
| H-02-200100 | 200              | 100 | M20 | 45 | 20 | 2,5 |
| H-02-200250 | 200              | 250 | M20 | 45 | 20 | 2,5 |

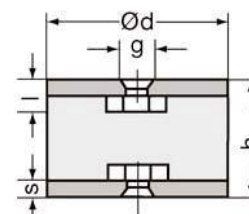
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "C"

With internal thread, duplex

Natural rubber in 55° shore - "intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.    | Dimensions in mm |    |     |    |     |
|----------------|------------------|----|-----|----|-----|
|                | Ø d              | h  | g   | l  | S   |
| H-03-0808      | 8                | 8  | M3  | 3  | 2   |
|                |                  |    |     |    |     |
| H-03-01010     | 10               | 10 | M4  | 4  | 2   |
| H-03-01015     | 10               | 15 | M4  | 4  | 2   |
| H-03-01020     | 10               | 20 | M4  | 4  | 2   |
|                |                  |    |     |    |     |
| H-03-01510     | 15               | 10 | M4  | 4  | 2   |
| H-03-01515     | 15               | 15 | M4  | 4  | 2   |
| H-03-01520     | 15               | 20 | M4  | 4  | 2   |
| H-03-01525     | 15               | 25 | M4  | 4  | 2   |
|                |                  |    |     |    |     |
| H-03-02015     | 20               | 15 | M6  | 6  | 2,5 |
| H-03-02020     | 20               | 20 | M6  | 6  | 2,5 |
| H-03-02025     | 20               | 25 | M6  | 6  | 2,5 |
| H-03-02030     | 20               | 30 | M6  | 6  | 2,5 |
|                |                  |    |     |    |     |
| H-03-02520     | 25               | 20 | M6  | 6  | 2,5 |
| H-03-02525     | 25               | 25 | M6  | 6  | 2,5 |
| H-03-02530     | 25               | 30 | M6  | 6  | 2,5 |
| H-03-02540     | 25               | 40 | M6  | 6  | 2,5 |
|                |                  |    |     |    |     |
| H-03-03020     | 30               | 20 | M8  | 8  | 2,5 |
|                |                  |    |     |    |     |
| H-03-03025     | 30               | 25 | M8  | 8  | 2,5 |
| H-03-03030     | 30               | 30 | M8  | 8  | 2,5 |
| H-03-03040     | 30               | 40 | M8  | 8  | 2,5 |
|                |                  |    |     |    |     |
| H-03-04020-M8  | 40               | 20 | M8  | 8  | 2,5 |
| H-03-04025-M8  | 40               | 25 | M8  | 8  | 2,5 |
| H-03-04025-M10 | 40               | 25 | M10 | 10 | 2,5 |
| H-03-04030-M8  | 40               | 30 | M8  | 8  | 2,5 |
| H-03-04030-M10 | 40               | 30 | M10 | 10 | 2,5 |
| H-03-04035-M8  | 40               | 35 | M8  | 8  | 2,5 |
| H-03-04035-M10 | 40               | 35 | M10 | 10 | 2,5 |
| H-03-04040     | 40               | 40 | M8  | 8  | 2,5 |
| H-03-04040-M10 | 40               | 40 | M10 | 10 | 2,5 |
| H-03-04045     | 40               | 45 | M8  | 8  | 2,5 |
| H-03-04050     | 40               | 50 | M8  | 8  | 2,5 |
| H-03-05030     | 50               | 30 | M10 | 10 | 2,5 |
| H-03-05035     | 50               | 35 | M10 | 10 | 2,5 |

| Article no.    | Dimensions in mm |     |     |    |     |
|----------------|------------------|-----|-----|----|-----|
|                | Ø d              | h   | g   | l  | S   |
| H-03-05040     | 50               | 40  | M10 | 10 | 2,5 |
| H-03-05045     | 50               | 45  | M10 | 10 | 2,5 |
| H-03-05050     | 50               | 50  | M10 | 10 | 2,5 |
| H-03-06030-M12 | 60               | 30  | M12 | 12 | 2,5 |
| H-03-06040-M10 | 60               | 40  | M10 | 10 | 2,5 |
| H-03-06040-M12 | 60               | 40  | M12 | 12 | 2,5 |
| H-03-06045-M10 | 60               | 45  | M10 | 10 | 2,5 |
| H-03-06050-M12 | 60               | 50  | M12 | 12 | 2,5 |
| H-03-06060-M10 | 60               | 60  | M10 | 10 | 2,5 |
| H-03-06060-M12 | 60               | 60  | M12 | 12 | 2,5 |
| H-03-07035     | 70               | 35  | M10 | 10 | 2,5 |
| H-03-07040     | 70               | 40  | M10 | 10 | 2,5 |
| H-03-07045-M10 | 70               | 45  | M10 | 10 | 2,5 |
| H-03-07045-M12 | 70               | 45  | M12 | 12 | 2,5 |
| H-03-07050     | 70               | 50  | M10 | 10 | 2,5 |
| H-03-07055     | 70               | 55  | M10 | 10 | 2,5 |
| H-03-07525     | 75               | 25  | M12 | 12 | 2,5 |
| H-03-07530     | 75               | 30  | M12 | 12 | 2,5 |
| H-03-07540     | 75               | 40  | M12 | 12 | 2,5 |
| H-03-07545     | 75               | 45  | M12 | 12 | 2,5 |
| H-03-07550     | 75               | 50  | M12 | 12 | 2,5 |
| H-03-07555     | 75               | 55  | M12 | 12 | 2,5 |
| H-03-07560     | 75               | 60  | M12 | 12 | 2,5 |
| H-03-07570     | 75               | 70  | M12 | 12 | 2,5 |
| H-03-07575     | 75               | 75  | M12 | 12 | 2,5 |
| H-03-10040     | 100              | 40  | M16 | 16 | 3   |
| H-03-10050     | 100              | 50  | M16 | 16 | 3   |
| H-03-10055     | 100              | 55  | M16 | 16 | 3   |
| H-03-10060     | 100              | 60  | M16 | 16 | 3   |
| H-03-10075     | 100              | 75  | M16 | 16 | 3   |
| H-03-100100    | 100              | 100 | M16 | 16 | 3   |
| H-03-100120    | 100              | 120 | M16 | 16 | 3   |
| H-03-12070     | 120              | 70  | M16 | 16 | 3   |
| H-03-12550     | 125              | 50  | M16 | 16 | 4   |
| H-03-12555     | 125              | 55  | M16 | 16 | 4   |
| H-03-15050     | 150              | 50  | M16 | 16 | 4   |
| H-03-15055     | 150              | 55  | M16 | 16 | 4   |
| H-03-15075     | 150              | 75  | M16 | 16 | 4   |
| H-03-16070     | 160              | 70  | M16 | 16 | 4   |
| H-03-200100    | 200              | 100 | M20 | 20 | 6   |

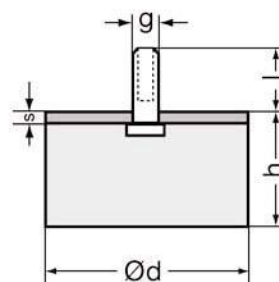
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "D"

With threaded bolt, one sized

Natural rubber in 55° shore -"intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.   | Dimensions in mm |     |    |    |     |
|---------------|------------------|-----|----|----|-----|
|               | Ø d              | h   | g  | L  | S   |
| H-04-01008    | 10               | 8   | M4 | 11 | 2   |
| H-04-01010    | 10               | 10  | M4 | 11 | 2   |
| H-04-01015    | 10               | 15  | M4 | 11 | 2   |
|               |                  |     |    |    |     |
| H-04-01310    | 13               | 10  | M4 | 11 | 2   |
|               |                  |     |    |    |     |
| H-04-01415    | 14               | 15  | M4 | 11 | 2   |
|               |                  |     |    |    |     |
| H-04-01504    | 15               | 4   | M4 | 11 | 2   |
| H-04-01506    | 15               | 6   | M4 | 11 | 2   |
| H-04-01507    | 15               | 7   | M4 | 11 | 2   |
| H-04-01508    | 15               | 8   | M4 | 11 | 2   |
| H-04-01510    | 15               | 10  | M4 | 11 | 2   |
| H-04-01512    | 15               | 12  | M4 | 11 | 2   |
| H-04-01513    | 15               | 13  | M4 | 11 | 2   |
| H-04-01515    | 15               | 15  | M4 | 11 | 2   |
| H-04-01520    | 15               | 20  | M4 | 11 | 2   |
| H-04-01525    | 15               | 25  | M4 | 11 | 2   |
| H-04-01528    | 15               | 28  | M4 | 11 | 2   |
| H-04-01530    | 15               | 30  | M4 | 11 | 2   |
|               |                  |     |    |    |     |
| H-04-001805,5 | 18               | 5,5 | M6 | 18 | 2   |
| H-04-001807,5 | 18               | 7,5 | M6 | 18 | 2   |
| H-04-001808,5 | 18               | 8,5 | M6 | 18 | 2   |
|               |                  |     |    |    |     |
| H-04-02005    | 20               | 5   | M6 | 18 | 2,5 |
| H-04-02008    | 20               | 8   | M6 | 18 | 2,5 |
| H-04-02010    | 20               | 10  | M6 | 18 | 2,5 |
| H-04-02012    | 20               | 12  | M6 | 18 | 2,5 |
| H-04-02015    | 20               | 15  | M6 | 18 | 2,5 |
| H-04-02020    | 20               | 20  | M6 | 18 | 2,5 |
| H-04-02025    | 20               | 25  | M6 | 18 | 2,5 |
| H-04-02030    | 20               | 30  | M6 | 18 | 2,5 |
| H-04-02035    | 20               | 35  | M6 | 18 | 2,5 |
| H-04-02065    | 20               | 60  | M6 | 18 | 2,5 |
|               |                  |     |    |    |     |
| H-04-02506    | 25               | 6   | M6 | 18 | 2,5 |
| H-04-02508    | 25               | 8   | M6 | 18 | 2,5 |
| H-04-02510    | 25               | 10  | M6 | 18 | 2,5 |
| H-04-02512    | 25               | 12  | M6 | 18 | 2,5 |

| Article no.    | Dimensions in mm |    |     |    |     |
|----------------|------------------|----|-----|----|-----|
|                | Ø d              | h  | g   | l  | S   |
| H-04-02515     | 25               | 15 | M6  | 18 | 2,5 |
| H-04-02517     | 25               | 17 | M6  | 18 | 2,5 |
| H-04-02520     | 25               | 20 | M6  | 18 | 2,5 |
| H-04-02525     | 25               | 25 | M6  | 18 | 2,5 |
| H-04-02528     | 25               | 28 | M6  | 18 | 2,5 |
| H-04-02530     | 25               | 30 | M6  | 18 | 2,5 |
| H-04-02540     | 25               | 40 | M6  | 18 | 2,5 |
| H-04-02570     | 25               | 70 | M6  | 18 | 2,5 |
|                |                  |    |     |    |     |
| H-04-03005     | 30               | 5  | M8  | 23 | 2,5 |
| H-04-03008     | 30               | 8  | M8  | 23 | 2,5 |
| H-04-03010     | 30               | 10 | M8  | 23 | 2,5 |
| H-04-03015     | 30               | 15 | M8  | 23 | 2,5 |
| H-04-03017     | 30               | 17 | M8  | 23 | 2,5 |
| H-04-03020     | 30               | 20 | M8  | 23 | 2,5 |
| H-04-03025     | 30               | 25 | M8  | 23 | 2,5 |
| H-04-03030     | 30               | 30 | M8  | 23 | 2,5 |
| H-04-03040     | 30               | 40 | M8  | 23 | 2,5 |
| H-04-03080     | 30               | 80 | M8  | 23 | 2,5 |
|                |                  |    |     |    |     |
| H-04-03520     | 35               | 20 | M8  | 23 | 2,5 |
| H-04-03530     | 35               | 30 | M8  | 23 | 2,5 |
|                |                  |    |     |    |     |
|                |                  |    |     |    |     |
| H-04-04010     | 40               | 10 | M8  | 23 | 2,5 |
| H-04-04012     | 40               | 12 | M8  | 23 | 2,5 |
| H-04-04015     | 40               | 15 | M8  | 23 | 2,5 |
| H-04-04020     | 40               | 20 | M8  | 23 | 2,5 |
| H-04-04025     | 40               | 25 | M8  | 23 | 2,5 |
| H-04-04027     | 40               | 27 | M8  | 23 | 2,5 |
| H-04-04028     | 40               | 28 | M8  | 23 | 2,5 |
| H-04-04030     | 40               | 30 | M8  | 23 | 2,5 |
| H-04-04030-M10 | 40               | 30 | M10 | 28 | 2,5 |

Further materials and surface finishes on demand. We will be pleased to give you advice.

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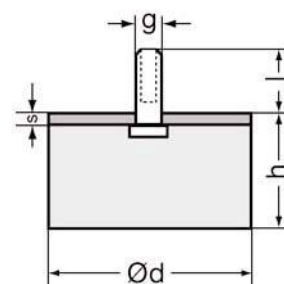
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "D"

With threaded bolt, one sized

Natural rubber in 55° shore -"intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.    | Dimensions in mm |    |     |    |     |
|----------------|------------------|----|-----|----|-----|
|                | Ø d              | h  | g   | l  | S   |
| H-04-04035     | 40               | 35 | M8  | 23 | 2,5 |
| H-04-04040     | 40               | 40 | M8  | 23 | 2,5 |
| H-04-04040-M10 | 40               | 40 | M10 | 28 | 2,5 |
| H-04-04045     | 40               | 45 | M8  | 23 | 2,5 |
| H-04-04050     | 40               | 50 | M8  | 23 | 2,5 |
| H-04-04055     | 40               | 55 | M8  | 23 | 2,5 |
|                |                  |    |     |    |     |
| H-04-05010     | 50               | 10 | M10 | 28 | 2,5 |
| H-04-05012     | 50               | 12 | M10 | 28 | 2,5 |
| H-04-05015     | 50               | 15 | M10 | 28 | 2,5 |
| H-04-05017     | 50               | 17 | M10 | 28 | 2,5 |
| H-04-05020     | 50               | 20 | M10 | 28 | 2,5 |
| H-04-05025     | 50               | 25 | M10 | 28 | 2,5 |
| H-04-05030     | 50               | 30 | M10 | 28 | 2,5 |
| H-04-05040     | 50               | 40 | M10 | 28 | 2,5 |
| H-04-05045     | 50               | 45 | M10 | 28 | 2,5 |
| H-04-05050     | 50               | 50 | M10 | 28 | 2,5 |
| H-04-05060     | 50               | 60 | M10 | 28 | 2,5 |
| H-04-05080     | 50               | 80 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-04-06020-M10 | 60               | 20 | M10 | 28 | 2,5 |
| H-04-06020-M12 | 60               | 20 | M12 | 37 | 2,5 |
| H-04-06030     | 60               | 30 | M10 | 28 | 2,5 |
| H-04-06030-M12 | 60               | 30 | M12 | 37 | 2,5 |
| H-04-06040-M12 | 60               | 40 | M12 | 37 | 2,5 |
| H-04-06050-M10 | 60               | 50 | M10 | 28 | 2,5 |
| H-04-06050-M12 | 60               | 50 | M12 | 37 | 2,5 |
| H-04-06060-M12 | 60               | 60 | M12 | 37 | 2,5 |
|                |                  |    |     |    |     |
| H-04-07025     | 70               | 25 | M10 | 28 | 2,5 |
|                |                  |    |     |    |     |
| H-04-07040     | 70               | 40 | M10 | 28 | 2,5 |
| H-04-07040-M12 | 70               | 40 | M12 | 37 | 2,5 |

| Article no.     | Dimensions in mm |     |     |    |     |
|-----------------|------------------|-----|-----|----|-----|
|                 | Ø d              | h   | g   | l  | S   |
| H-04-07045      | 70               | 45  | M10 | 28 | 2,5 |
| H-04-07045-M12  | 70               | 45  | M12 | 37 | 2,5 |
| H-04-07050-M10  | 70               | 50  | M10 | 28 | 2,5 |
| H-04-07050-M12  | 70               | 50  | M12 | 37 | 2,5 |
|                 |                  |     |     |    |     |
| H-04-07515      | 75               | 15  | M12 | 37 | 2,5 |
| H-04-07520      | 75               | 20  | M12 | 37 | 2,5 |
| H-04-07525      | 75               | 25  | M12 | 37 | 2,5 |
| H-04-07540      | 75               | 40  | M12 | 37 | 2,5 |
| H-04-07545      | 75               | 45  | M12 | 37 | 2,5 |
| H-04-07550      | 75               | 50  | M12 | 37 | 2,5 |
| H-04-07555      | 75               | 55  | M12 | 37 | 2,5 |
| H-04-07560      | 75               | 60  | M12 | 37 | 2,5 |
| H-04-07570      | 75               | 70  | M12 | 37 | 2,5 |
|                 |                  |     |     |    |     |
| H-04-10025      | 100              | 25  | M16 | 43 | 3   |
|                 |                  |     |     |    |     |
| H-04-10036      | 100              | 36  | M16 | 43 | 3   |
| H-04-10040      | 100              | 40  | M16 | 43 | 3   |
| H-04-10050      | 100              | 50  | M16 | 43 | 3   |
| H-04-10055      | 100              | 55  | M16 | 43 | 3   |
| H-04-10060      | 100              | 60  | M16 | 43 | 3   |
| H-04-10075      | 100              | 75  | M16 | 43 | 3   |
|                 |                  |     |     |    |     |
| H-04-100100     | 100              | 100 | M16 | 43 | 3   |
|                 |                  |     |     |    |     |
|                 |                  |     |     |    |     |
| H-04-15050      | 150              | 50  | M16 | 43 | 4   |
| H-04-15055      | 150              | 55  | M16 | 43 | 4   |
| H-04-15075      | 150              | 75  | M16 | 43 | 4   |
|                 |                  |     |     |    |     |
| H-04-200200-M16 | 200              | 200 | M16 | 43 | 6   |

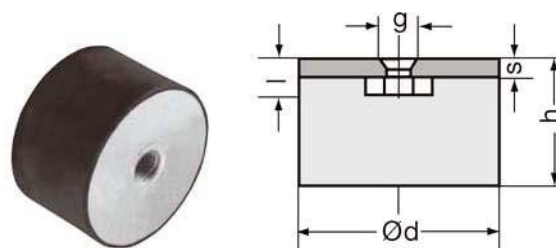
## Rubber-metal-buffer

### Rubber-metal-buffer, Type "E"

With internal threads, one sized

Natural rubber in 55° shore -"intermediate"

On request also available 45°, 65°, 70° Shore



| Article no.    | Dimensions in mm |      |     |    |     |
|----------------|------------------|------|-----|----|-----|
|                | Ø d              | h    | g   | l  | S   |
| H-05-0808      | 8                | 8    | M3  | 3  | 2   |
| H-05-01508     | 15               | 8    | M4  | 4  | 2   |
| H-05-01515     | 15               | 15   | M4  | 4  | 2   |
| H-05-01520     | 15               | 20   | M4  | 4  | 2   |
| H-05-01525     | 15               | 25   | M4  | 4  | 2   |
| H-05-01530     | 15               | 30   | M4  | 4  | 2   |
| H-05-02011     | 20               | 11   | M6  | 6  | 2,5 |
| H-05-02013,5   | 20               | 13,5 | M6  | 6  | 2,5 |
| H-05-02015     | 20               | 15   | M6  | 6  | 2,5 |
| H-05-02020     | 20               | 20   | M6  | 6  | 2,5 |
| H-05-02025     | 20               | 25   | M6  | 6  | 2,5 |
| H-05-02030     | 20               | 30   | M6  | 6  | 2,5 |
| H-05-02515     | 25               | 15   | M6  | 6  | 2,5 |
| H-05-02520     | 25               | 20   | M6  | 6  | 2,5 |
| H-05-02525     | 25               | 25   | M6  | 6  | 2,5 |
| H-05-02530     | 25               | 30   | M6  | 6  | 2,5 |
| H-05-03015     | 30               | 15   | M8  | 8  | 2,5 |
| H-05-03017     | 30               | 17   | M8  | 8  | 2,5 |
| H-05-03020     | 30               | 20   | M8  | 8  | 2,5 |
| H-05-03025     | 30               | 25   | M8  | 8  | 2,5 |
| H-05-03028     | 30               | 28   | M8  | 8  | 2,5 |
| H-05-03030     | 30               | 30   | M8  | 8  | 2,5 |
| H-05-03040     | 30               | 40   | M8  | 8  | 2,5 |
| H-05-04015-M8  | 40               | 15   | M8  | 8  | 2,5 |
| H-05-04020-M8  | 40               | 20   | M8  | 8  | 2,5 |
| H-05-04020-M10 | 40               | 20   | M10 | 10 | 2,5 |
| H-05-04025-M8  | 40               | 25   | M8  | 8  | 2,5 |
| H-05-04025-M10 | 40               | 25   | M10 | 10 | 2,5 |
| H-05-04028     | 40               | 28   | M8  | 8  | 2,5 |
| H-05-04030-M8  | 40               | 30   | M8  | 8  | 2,5 |
| H-05-04030-M10 | 40               | 30   | M10 | 10 | 2,5 |
| H-05-04035     | 40               | 35   | M8  | 8  | 2,5 |
| H-05-04040-M8  | 40               | 40   | M8  | 8  | 2,5 |
| H-05-04040-M10 | 40               | 40   | M10 | 10 | 2,5 |
| H-05-04045-M8  | 40               | 45   | M8  | 8  | 2,5 |
| H-05-05020     | 50               | 20   | M10 | 10 | 2,5 |
| H-05-05025     | 50               | 25   | M10 | 10 | 2,5 |
| H-05-05030     | 50               | 30   | M10 | 10 | 2,5 |
| H-05-05040     | 50               | 40   | M10 | 10 | 2,5 |
| H-05-05045     | 50               | 45   | M10 | 10 | 2,5 |
| H-05-05050     | 50               | 50   | M10 | 10 | 2,5 |
| H-05-05080     | 50               | 80   | M10 | 10 | 2,5 |

| Article no.     | Dimensions in mm |     |     |    |     |
|-----------------|------------------|-----|-----|----|-----|
|                 | Ø d              | h   | g   | l  | S   |
| H-05-06020-M12  | 60               | 20  | M12 | 12 | 2,5 |
| H-05-06030-M12  | 60               | 30  | M12 | 12 | 2,5 |
| H-05-06030-M16  | 60               | 30  | M16 | 16 | 2,5 |
| H-05-06040-M10  | 60               | 40  | M10 | 10 | 2,5 |
| H-05-06040-M12  | 60               | 40  | M12 | 12 | 2,5 |
| H-05-06050-M12  | 60               | 50  | M12 | 12 | 2,5 |
| H-05-06060-M12  | 60               | 60  | M12 | 12 | 2,5 |
| H-05-07040-M12  | 70               | 40  | M12 | 12 | 2,5 |
| H-05-07045-M10  | 70               | 45  | M10 | 10 | 2,5 |
| H-05-07050-M12  | 70               | 50  | M12 | 12 | 2,5 |
| H-05-07055      | 70               | 55  | M10 | 10 | 2,5 |
| H-05-07515      | 75               | 15  | M12 | 12 | 2,5 |
| H-05-07525      | 75               | 25  | M12 | 12 | 2,5 |
| H-05-07530      | 75               | 30  | M12 | 12 | 2,5 |
| H-05-07540-M12  | 75               | 40  | M12 | 12 | 2,5 |
| H-05-07540-M16  | 75               | 40  | M16 | 16 | 2,5 |
| H-05-07545      | 75               | 45  | M12 | 12 | 2,5 |
| H-05-07550      | 75               | 50  | M12 | 12 | 2,5 |
| H-05-07555      | 75               | 55  | M12 | 12 | 2,5 |
| H-05-07570      | 75               | 70  | M12 | 12 | 2,5 |
| H-05-10036      | 100              | 36  | M16 | 16 | 3   |
| H-05-10040      | 100              | 40  | M16 | 16 | 3   |
| H-05-10050      | 100              | 50  | M16 | 16 | 3   |
| H-05-10055      | 100              | 55  | M16 | 16 | 3   |
| H-05-10060      | 100              | 60  | M16 | 16 | 3   |
| H-05-10075      | 100              | 75  | M16 | 16 | 3   |
| H-05-100100     | 100              | 100 | M16 | 16 | 3   |
| H-05-12550      | 125              | 50  | M16 | 16 | 4   |
| H-05-125100     | 125              | 100 | M16 | 16 | 4   |
| H-05-15050-M16  | 150              | 50  | M16 | 16 | 4   |
| H-05-15055-M16  | 150              | 55  | M16 | 16 | 4   |
| H-05-15075-M16  | 150              | 75  | M16 | 16 | 4   |
| H-05-15075-M20  | 150              | 75  | M20 | 4  |     |
| H-05-200100-M16 | 200              | 100 | M16 | 16 | 6   |



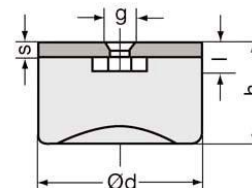
## Rubber-metal-buffer

### Rubber-metal-buffer, Type „ES“

With suction cup and internal thread, on the one hand

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



| Article no.  | Dimensions in mm |      |    |   |     |
|--------------|------------------|------|----|---|-----|
|              | Ø d              | h    | g  | l | S   |
| H-ES-20x23,5 | 20               | 23,5 | M6 | 6 | 2,5 |
| H-ES-25x18,5 | 25               | 18,5 | M6 | 6 | 2,5 |
| H-ES-25x20   | 25               | 20   | M6 | 6 | 2,5 |
| H-ES-30x10   | 30               | 10   | M8 | 8 | 2,5 |
| H-ES-30x28,5 | 30               | 28,5 | M8 | 8 | 2,5 |

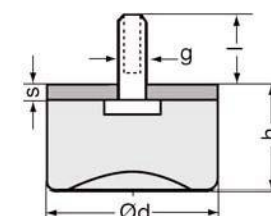
| Article no.  | Dimensions in mm |      |     |    |     |
|--------------|------------------|------|-----|----|-----|
|              | Ø d              | h    | g   | l  | S   |
| H-ES-40x28   | 40               | 28   | M8  | 8  | 2,5 |
| H-ES-50x28,5 | 50               | 28,5 | M10 | 10 | 2,5 |
| H-ES-70x30   | 70               | 30   | M10 | 10 | 2,5 |
| H-ES-100x50  | 100              | 50   | M16 | 16 | 3   |

### Rubber-metal-buffer, Type “DS”

With suction cup and threaded bolts, one-sided

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



| Article no.  | Dimensions in mm |      |    |    |     |
|--------------|------------------|------|----|----|-----|
|              | Ø d              | h    | g  | l  | S   |
| H-DS-20x23,5 | 20               | 23,5 | M6 | 18 | 2,5 |
| H-DS-25x18,5 | 25               | 18,5 | M6 | 18 | 2,5 |
| H-DS-25x20   | 25               | 20   | M6 | 18 | 2,5 |
| H-DS-30x10   | 30               | 10   | M8 | 23 | 2,5 |
| H-DS-30x28,5 | 30               | 28,5 | M8 | 23 | 2,5 |
| H-DS-40x28   | 40               | 28   | M8 | 23 | 2,5 |

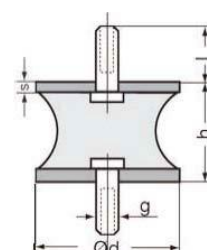
| Article no.  | Dimensions in mm |      |     |    |     |
|--------------|------------------|------|-----|----|-----|
|              | Ø d              | h    | g   | l  | S   |
| H-DS-50x28,5 | 50               | 28,5 | M10 | 28 | 2,5 |
| H-DS-70x30   | 70               | 30   | M10 | 28 | 2,5 |
| H-DS-70x43   | 70               | 43   | M12 | 37 | 2,5 |
| H-DS-75x37   | 75               | 37   | M12 | 37 | 2,5 |
| H-DS-100x50  | 100              | 50   | M16 | 43 | 3   |

### Rubber-metal-buffer, Type “TA”

waisted, with threaded bolts, duplex

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



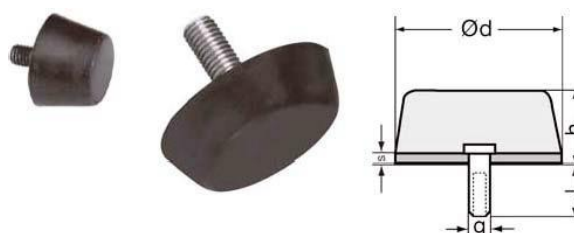
| Article no. | Dimensions in mm |    |    |    |     |
|-------------|------------------|----|----|----|-----|
|             | Ø d              | h  | g  | l  | S   |
| H-T-15x15   | 15               | 15 | M4 | 13 | 2   |
| H-T-15x30   | 15               | 30 | M4 | 13 | 2   |
| H-T-18x12   | 18               | 12 | M6 | 18 | 2   |
| H-T-20x15   | 20               | 15 | M6 | 18 | 2,5 |
| H-T-25x20   | 25               | 20 | M6 | 18 | 2,5 |
| H-T-30x15   | 30               | 15 | M8 | 23 | 2,5 |
| H-T-30x20   | 30               | 20 | M8 | 23 | 2,5 |
| H-T-30x25   | 30               | 25 | M8 | 23 | 2,5 |
| H-T-30x30   | 30               | 30 | M8 | 23 | 2,5 |
| H-T-30x40   | 30               | 40 | M8 | 23 | 2,5 |

| Article no. | Dimensions in mm |    |     |    |     |
|-------------|------------------|----|-----|----|-----|
|             | Ø d              | h  | g   | l  | S   |
| H-T-40x30   | 40               | 30 | M8  | 23 | 2,5 |
| H-T-40x48   | 40               | 48 | M8  | 23 | 2,5 |
| H-T-40x50   | 40               | 50 | M8  | 23 | 2,5 |
| H-T-50x30   | 50               | 30 | M10 | 28 | 2,5 |
| H-T-50x40   | 50               | 40 | M10 | 28 | 2,5 |
| H-T-60x50   | 60               | 50 | M10 | 28 | 2,5 |
| H-T-60x65   | 60               | 65 | M10 | 28 | 2,5 |
| H-T-75x35   | 75               | 35 | M12 | 37 | 2,5 |
| H-T-75x40   | 75               | 40 | M12 | 37 | 2,5 |
| H-T-100x75  | 100              | 75 | M16 | 43 | 3   |

## Rubber-metal-buffer

Rubber-metal-buffer, Type "K"  
Conical, with threaded bolts, one-sided

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore

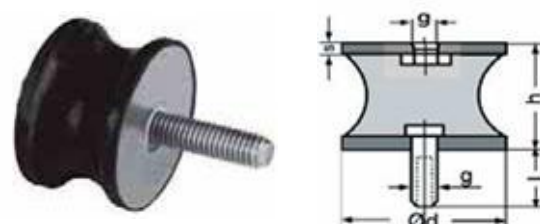


| Article no. | Dimensions in mm |    |    |    |     |
|-------------|------------------|----|----|----|-----|
|             | Ø d              | h  | g  | l  | S   |
| H-K-08x07   | 8                | 7  | M4 | 8  | 2   |
| H-K-015x10  | 15               | 10 | M4 | 10 | 2   |
| H-K-01512   | 15               | 12 | M4 | 13 | 2   |
| H-K-020x17  | 20               | 17 | M5 | 18 | 2,5 |
| H-K-20,5x13 | 20               | 13 | M8 | 20 | 2,5 |
| H-K-025x05  | 25               | 5  | M6 | 18 | 2,5 |
| H-K-025x12  | 25               | 12 | M6 | 18 | 2,5 |
| H-K-025x15  | 25               | 15 | M4 | 13 | 2,5 |
| H-K-025x17  | 25               | 17 | M6 | 18 | 2,5 |
| H-K-025x20  | 25               | 20 | M6 | 18 | 2,5 |
| H-K-025x22  | 25               | 22 | M6 | 13 | 2,5 |
| H-K-025x28  | 25               | 28 | M6 | 18 | 2,5 |
| H-K-025x35  | 25               | 35 | M6 | 18 | 2,5 |

| Article no. | Dimensions in mm |    |     |    |     |
|-------------|------------------|----|-----|----|-----|
|             | Ø d              | h  | g   | l  | S   |
| H-K-030x15  | 30               | 15 | M8  | 23 | 2,5 |
| H-K-030x20  | 30               | 20 | M8  | 23 | 2,5 |
| H-K-030x25  | 30               | 25 | M8  | 23 | 2,5 |
| H-K-030x28  | 30               | 28 | M8  | 23 | 2,5 |
| H-K-030x40  | 30               | 40 | M8  | 23 | 2,5 |
| H-K-035x40  | 35               | 40 | M8  | 23 | 2,5 |
| H-K-040x25  | 40               | 25 | M10 | 28 | 2,5 |
| H-K-050x17  | 50               | 17 | M10 | 28 | 2,5 |
| H-K-050x18  | 50               | 18 | M10 | 28 | 2,5 |
| H-K-050x20  | 50               | 20 | M10 | 28 | 2,5 |
| H-K-050x30  | 50               | 30 | M10 | 28 | 2,5 |
| H-K-050x40  | 50               | 40 | M10 | 28 | 2,5 |
| H-K-050x55  | 50               | 55 | M10 | 28 | 2,5 |
| H-K-80x28   | 80               | 28 | M12 | 37 | 2,5 |

Rubber-metal-buffer, Type "TB"  
This article is only available on request.  
waisted, with threaded bolts and internal thread

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |    |    |    |     |
|-------------|------------------|----|----|----|-----|
|             | Ø d              | h  | g  | l  | S   |
| H-T02-15x15 | 15               | 15 | M4 | 13 | 2   |
| H-T02-15x30 | 15               | 30 | M4 | 13 | 2   |
| H-T02-18x12 | 18               | 12 | M6 | 18 | 2   |
| H-T02-20x15 | 20               | 15 | M6 | 18 | 2,5 |
| H-T02-25x20 | 25               | 20 | M6 | 18 | 2,5 |
| H-T02-30x15 | 30               | 15 | M8 | 23 | 2,5 |
| H-T02-30x20 | 30               | 20 | M8 | 23 | 2,5 |
| H-T02-30x25 | 30               | 25 | M8 | 23 | 2,5 |
| H-T02-30x30 | 30               | 30 | M8 | 23 | 2,5 |
| H-T02-30x40 | 30               | 40 | M8 | 23 | 2,5 |

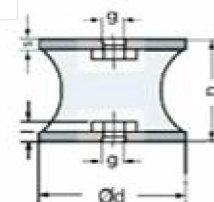
| Article no.  | Dimensions in mm |    |     |    |     |
|--------------|------------------|----|-----|----|-----|
|              | Ø d              | h  | g   | l  | S   |
| H-T02-40x30  | 40               | 30 | M8  | 23 | 2,5 |
| H-T02-40x48  | 40               | 48 | M8  | 23 | 2,5 |
| H-T02-40x50  | 40               | 50 | M8  | 23 | 2,5 |
| H-T02-50x30  | 50               | 30 | M10 | 28 | 2,5 |
| H-T02-50x40  | 50               | 40 | M10 | 28 | 2,5 |
| H-T02-60x50  | 60               | 50 | M10 | 28 | 2,5 |
| H-T02-60x65  | 60               | 65 | M10 | 28 | 2,5 |
| H-T02-75x35  | 75               | 35 | M12 | 37 | 2,5 |
| H-T02-75x40  | 75               | 40 | M12 | 37 | 2,5 |
| H-T02-100x75 | 100              | 75 | M16 | 43 | 3   |

## Rubber-metal-buffer

### Rubber-metal-buffer, Type "TC"

This article is only available on request.  
waisted, with internal thread, duplex

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



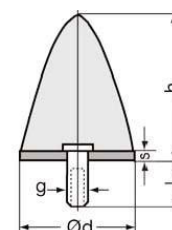
| Article no. | Dimensions in mm |    |    |   |     |
|-------------|------------------|----|----|---|-----|
|             | Ø d              | h  | g  | l | S   |
| H-T03-15x15 | 15               | 15 | M4 | 4 | 2   |
| H-T03-15x30 | 15               | 30 | M4 | 4 | 2   |
| H-T03-20x15 | 20               | 15 | M6 | 6 | 2,5 |
| H-T03-25x20 | 25               | 20 | M6 | 6 | 2,5 |
| H-T03-30x20 | 30               | 20 | M8 | 8 | 2,5 |
| H-T03-30x25 | 30               | 25 | M8 | 8 | 2,5 |
| H-T03-30x30 | 30               | 30 | M8 | 8 | 2,5 |
| H-T03-30x40 | 30               | 40 | M8 | 8 | 2,5 |
| H-T03-40x30 | 40               | 30 | M8 | 8 | 2,5 |

| Article no.  | Dimensions in mm |    |     |    |     |
|--------------|------------------|----|-----|----|-----|
|              | Ø d              | h  | g   | l  | S   |
| H-T03-40x48  | 40               | 48 | M8  | 8  | 2,5 |
| H-T03-40x50  | 40               | 50 | M8  | 8  | 2,5 |
| H-T03-50x30  | 50               | 30 | M10 | 10 | 2,5 |
| H-T03-50x40  | 50               | 40 | M10 | 10 | 2,5 |
| H-T03-60x50  | 60               | 50 | M10 | 10 | 2,5 |
| H-T03-60x65  | 60               | 65 | M10 | 10 | 2,5 |
| H-T03-75x35  | 75               | 35 | M12 | 12 | 2,5 |
| H-T03-75x40  | 75               | 40 | M12 | 12 | 2,5 |
| H-T03-100x75 | 100              | 75 | M16 | 16 | 3   |

### Rubber-metal-buffer, Type "P"

parabolic, with threaded bolts, one-sided  
With internal thread on request.

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



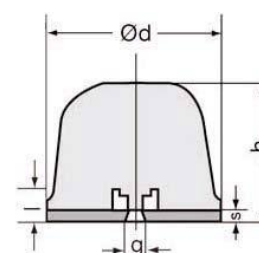
| Article no. | Dimensions |    |    |    |     |
|-------------|------------|----|----|----|-----|
|             | Ø d        | h  | g  | l  | S   |
| H-P-15x15   | 15         | 15 | M4 | 13 | 2   |
| H-P-20x24   | 20         | 24 | M6 | 18 | 2,5 |
| H-P-25x15   | 25         | 15 | M6 | 18 | 2,5 |
| H-P-25x19   | 25         | 19 | M6 | 18 | 2,5 |
| H-P-30x36   | 30         | 36 | M8 | 23 | 2,5 |
| H-P-32x36   | 32         | 36 | M8 | 23 | 2,5 |

| Article no. | Dimensions in mm |     |     |    |     |
|-------------|------------------|-----|-----|----|-----|
|             | Ø d              | h   | g   | l  | S   |
| H-P-50x58   | 50               | 58  | M10 | 28 | 2,5 |
| H-P-50x65   | 50               | 65  | M10 | 28 | 2,5 |
| H-P-75x89   | 75               | 89  | M12 | 37 | 2,5 |
| H-P-95x83   | 95               | 83  | M16 | 43 | 2,5 |
| H-P-115x136 | 115              | 136 | M16 | 42 | 3   |

### Rubber-metal-buffer, Type "KE"

conical, with internal thread, one-sided  
With external thread on request.

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |    |     |    |     |
|-------------|------------------|----|-----|----|-----|
|             | Ø d              | h  | g   | l  | S   |
| H-KE-50x35  | 50               | 35 | M10 | 10 | 2,5 |
| H-KE-80x60  | 80               | 60 | M12 | 12 | 2,5 |
| H-KE-125x90 | 125              | 90 | M16 | 16 | 4   |

## Rubber-metal-buffer

### Rubber-metal-buffer

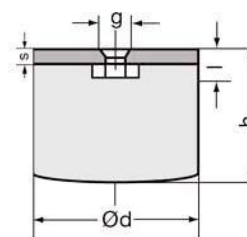
#### “crane-bump stop“

With internal thread, one-sided

With external thread on request.

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



| Article no.  | Dimensions in mm |    |     |    |     |
|--------------|------------------|----|-----|----|-----|
|              | Ø d              | h  | g   | l  | S   |
| H-KRA-50x35  | 50               | 35 | M10 | 10 | 2,5 |
| H-KRA-50x40  | 50               | 40 | M10 | 10 | 2,5 |
| H-KRA-63x50  | 63               | 50 | M10 | 10 | 2,5 |
| H-KRA-80x66  | 80               | 66 | M12 | 12 | 2,5 |
| H-KRA-100x84 | 100              | 84 | M16 | 16 | 3   |

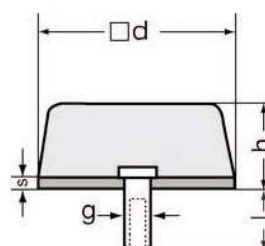
| Article no.   | Dimensions in mm |     |     |    |   |
|---------------|------------------|-----|-----|----|---|
|               | Ø d              | h   | g   | l  | S |
| H-KRA-125x104 | 125              | 104 | M16 | 16 | 4 |
| H-KRA-160x131 | 160              | 131 | M16 | 16 | 4 |
| H-KRA-200x166 | 200              | 166 | M20 | 20 | 6 |
| H-KRA-250x208 | 250              | 208 | M20 | 20 | 6 |

### Rubber-metal-puffer, Type “KV”

Conical, with threaded bolts, one-sided

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |      |    |     |    |     |
|-------------|------------------|------|----|-----|----|-----|
|             | Length           | Wide | h  | g   | l  | s   |
| H-KV-80x25  | 80               | 80   | 25 | M12 | 37 | 2,5 |
| H-KV-80x30  | 80               | 80   | 30 | M12 | 37 | 2,5 |

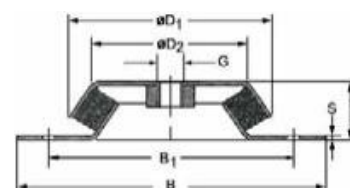
### Rubber-metal-elements

#### “maschine feed, square, 4-hole“

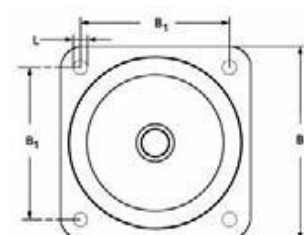
With internal thread, one-sided

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |     |      |     |      |     |     |      |
|-------------|------------------|-----|------|-----|------|-----|-----|------|
|             | B                | B1  | Ø L  | D1  | Ø D2 | G   | S   | H    |
| H-MF-184    | 184              | 150 | 13   | 177 | 126  | M20 | 4,5 | 63   |
| H-MF-168    | 168              | 132 | 12,5 | 150 | 110  | M16 | 4   | 51,5 |



## Rubber-metal-buffer

Rubber-metal-elements

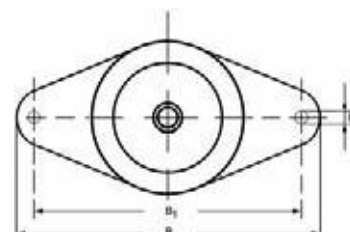
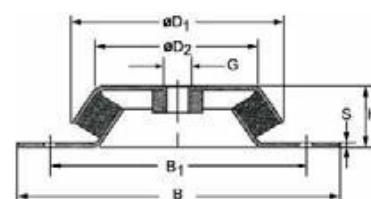
**“maschine feed, oval, 2-hole“**

With internal thread, one-sided

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |     |     |      |     |   |    |
|-------------|------------------|-----|-----|-----|------|-----|---|----|
|             | B                | B1  | Ø L | D1  | Ø D2 | G   | S | H  |
| H-MF-170    | 170              | 140 | 13  | 106 | 88,5 | M12 | 3 | 39 |
| H-MF-128    | 128              | 110 | 6   | 78  | 60,5 | M10 | 2 | 30 |



Rubber-metal-elements

**“maschine feed oval, 2-hole“**

With

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |     |     |      |     |   |    |
|-------------|------------------|-----|-----|-----|------|-----|---|----|
|             | B                | B1  | Ø L | D1  | Ø D2 | G   | S | H  |
| H-MF-170A   | 170              | 140 | 13  | 106 | 88,5 | M12 | 3 | 39 |
| H-MF-128A   | 128              | 110 | 6   | 78  | 60,5 | M10 | 2 | 30 |

Rubber-metal-elements

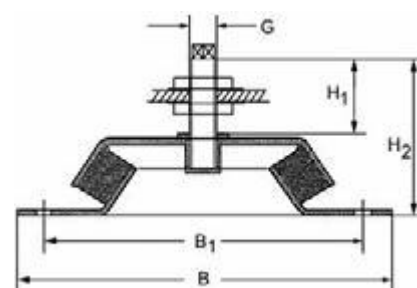
**“maschine feed square, 4-hole“**

With height adjustment

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |      |       |     |    |
|-------------|------------------|-----|------|-------|-----|----|
|             | B                | B1  | Ø L  | G     | H1  | H2 |
| H-MF-184H   | 184              | 150 | 13   | M20x2 | 147 | 80 |
| H-MF-168H   | 168              | 132 | 12,5 | M20x2 | 135 | 80 |



Rubber-metal-elements

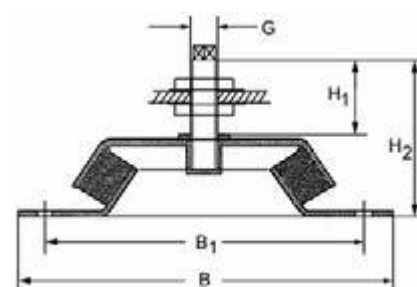
**“maschine feed oval, 2-hole“**

Execution, with height adjustment"

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |     |         |     |    |
|-------------|------------------|-----|-----|---------|-----|----|
|             | B                | B1  | Ø L | G       | H1  | H2 |
| H-MF-170H   | 170              | 140 | 13  | M16x1,5 | 106 | 65 |
| H-MF-128H   | 128              | 110 | 6   | M16x1,5 | 97  | 68 |

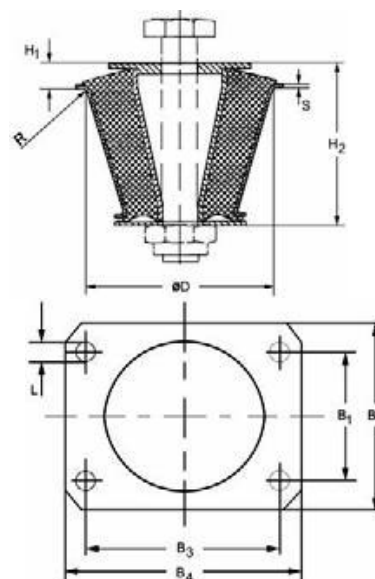




## Rubber-metal-buffer

### Rubber-metal-elements "conus bearing"

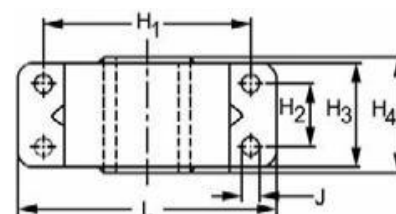
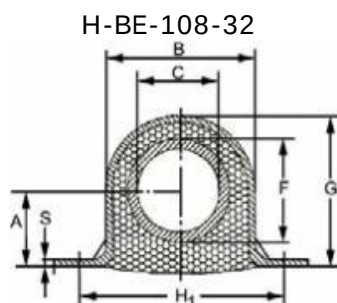
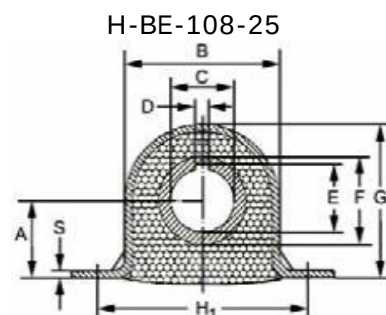
Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |    |     |   |     |    |    |     |     |     |
|-------------|------------------|----|-----|---|-----|----|----|-----|-----|-----|
|             | H1               | H2 | S   | R | Ø D | L  | B1 | B2  | B3  | B4  |
| H-KL-140120 | 23               | 95 | 4,5 | 4 | 109 | 11 | 92 | 120 | 112 | 140 |
| H-KL-120100 | 20               | 81 | 4,3 | 4 | 93  | 11 | 74 | 100 | 90  | 120 |
| H-KL-107090 | 19,5             | 56 | 3,5 | 3 | 78  | 11 | 65 | 90  | 80  | 107 |

### Rubber-metal-elements "clip-elements"

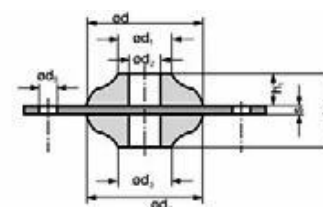
Natural elements in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



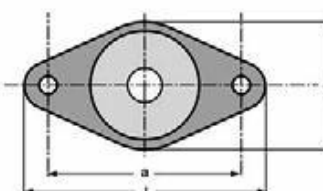
| Article no. | Dimensions in mm |    |    |   |      |    |      |    |    |    |    |     |     |
|-------------|------------------|----|----|---|------|----|------|----|----|----|----|-----|-----|
|             | A                | B  | C  | D | E    | F  | G    | H1 | H2 | H3 | H4 | J   | L   |
| H-BE-108-25 | 27,5             | 62 | 25 | 6 | 27,5 | 35 | 58,5 | 85 | 24 | 40 | 45 | 8,5 | 108 |
| H-BE-108-32 | 27,5             | 62 | 32 | - | -    | 40 | 58,5 | 85 | 25 | 40 | 45 | 9   | 108 |

### Rubber-metal-elements "flange-elements"

Natural rubber in 55° shore -"intermediate"  
On request also available in 45°, 65°, 70° Shore



| Article no. | Dimensions in mm |    |     |      |      |      |      |    |    |    |      |   |
|-------------|------------------|----|-----|------|------|------|------|----|----|----|------|---|
|             | Ø d              | h  | l   | Ø d1 | Ø d2 | Ø d3 | Ø d4 | a  | b  | h1 | Ø d5 | S |
| H-FE-721    | 68               | 49 | 117 | 39   | 16   | 37   | 65   | 94 | 71 | 28 | 9    | 5 |





## Rubber-metal-buffer

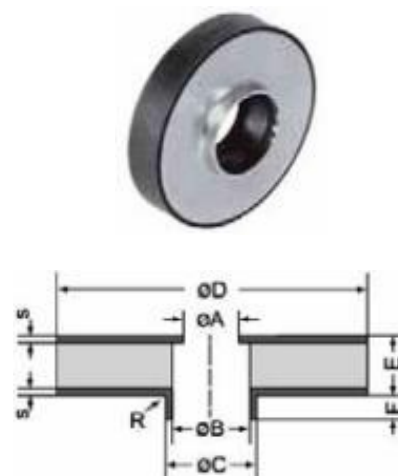
### Rubber-metal-elements

#### “ring-element“

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |      |     |     |    |      |     |     |
|-------------|------------------|------|-----|-----|----|------|-----|-----|
|             | Ø D              | Ø A  | Ø B | Ø C | E  | F    | s   | R   |
| H-R-36x10   | 36               | 8,5  | 12  | 17  | 10 | 3    | 1,5 | 1   |
| H-R-36x12   | 36               | 8,5  | 12  | 18  | 12 | 4    | 1   | 1   |
| H-R-41x15,5 | 41               | 8,5  | 15  | 17  | 20 | 5    | 1   | 1   |
| H-R-50x16,5 | 50               | 16,5 | 20  | 23  | 13 | 9,5  | 1,5 | 2,5 |
| H-R-60x12   | 60               | 20,5 | 24  | 27  | 13 | 10,5 | 1,5 | 2,5 |



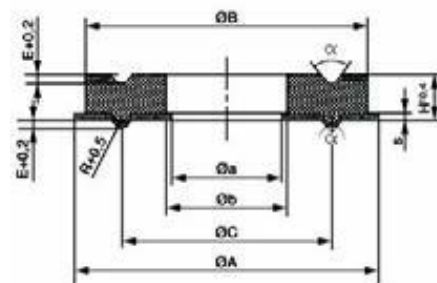
### Rubber-metal-elements

#### “spring washers“

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |     |     |     |      |      |     |    |     |     |
|-------------|------------------|-----|-----|-----|-----|------|------|-----|----|-----|-----|
|             | Ø A              | Ø a | Ø B | Ø b | Ø C | H    | s    | E   | α  | R   | r   |
| H-FS-6511   | 65               | 26  | 62  | 30  | 46  | 11   | 1    | 2,5 | 60 | 2   | 0,5 |
| H-FS-9510   | 95               | 45  | 90  | 50  | 70  | 10,5 | 1,5  | 2,5 | 60 | 2,5 | 1   |
| H-FS-10027  | 100              | 35  | 90  | 40  | 64  | 27,5 | 1,5  | 3,5 | 60 | 3   | 1   |
| H-FS-11015  | 110              | 40  | 102 | 44  | 76  | 15,8 | 1,75 | 3,5 | 60 | 3   | 1   |
| H-FS-13016  | 130              | 55  | 123 | 60  | 90  | 16   | 2    | 5   | 60 | 4   | 2   |
| H-FS-15330  | 153              | 55  | 145 | 60  | 102 | 30   | 2    | 5   | 60 | 4   | 2   |
| H-FS-16423  | 164              | 60  | 156 | 64  | 110 | 23   | 2    | 4   | 60 | 4   | 2   |
| H-FS-21020  | 210              | 95  | 200 | 100 | 154 | 20   | 2    | 6   | 60 | 6   | 1,2 |
| H-FS-22062  | 220              | 66  | 200 | 100 | 154 | 62   | 2    | 6   | 60 | 6   | 1,2 |
| H-FS-24025  | 240              | 70  | 230 | 76  | 154 | 25   | 2    | 6   | 60 | 5   | 2   |



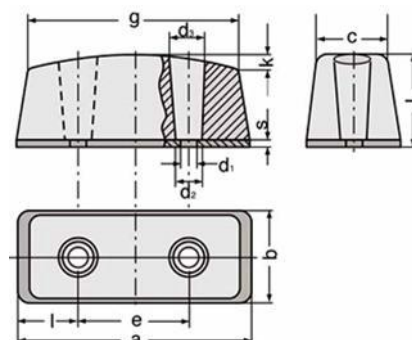
### Rubber-metal-elements

#### “gear-buffer“

Natural rubber in 55° shore -"intermediate"

On request also available in 45°, 65°, 70° Shore

| Article no. | Dimensions in mm |     |      |    |    |     |     |      |    |   |     |     |
|-------------|------------------|-----|------|----|----|-----|-----|------|----|---|-----|-----|
|             | a                | b   | d1   | d2 | d3 | e   | g   | l    | k  | s | C   | L   |
| H-RP-35     | 80               | 40  | 7    | 11 | 15 | 45  | 75  | 17,5 | 5  | 4 | 35  | 45  |
| H-RP-45     | 150              | 60  | 11,5 | 18 | 24 | 70  | 134 | 40   | 9  | 4 | 45  | 59  |
| H-RP-80     | 200              | 100 | 13,5 | 21 | 28 | 90  | 168 | 55   | 12 | 4 | 80  | 100 |
| H-RP-100    | 250              | 125 | 13,5 | 21 | 32 | 100 | 212 | 75   | 20 | 4 | 100 | 135 |



# Rubber-metal-buffer

Load table for miscellaneous types with different rubber hardness

The given acceptable loads constitute only approximate values for static loads

Hard: ca. 70 Shore A

Middle: ca. 55 Shore A

Soft: ca. 45 Shore

Article no.: H-01... type A

| Dimensions in mm |     |     |    | Compressive stresses               |        |      |                        |        |       | Shoe stresses             |        |      |                        |        |      |
|------------------|-----|-----|----|------------------------------------|--------|------|------------------------|--------|-------|---------------------------|--------|------|------------------------|--------|------|
|                  |     |     |    | Spring rate c <sub>2</sub> in N/mm |        |      | Acceptable load F in N |        |       | Spring rate c x/y in N/mm |        |      | Acceptable load F in N |        |      |
| D                | H   | G   | L  | Hard                               | Middle | Soft | Hard                   | Middle | Soft  | Hard                      | Middle | Soft | Hard                   | Middle | Soft |
| 20               | 15  | M6  | 18 | 300                                | 190    | 120  | 500                    | 320    | 200   | 60                        | 40     | 30   | 190                    | 120    | 70   |
| 30               | 15  | M8  | 23 | 670                                | 410    | 250  | 1100                   | 700    | 400   | 90                        | 60     | 40   | 350                    | 210    | 130  |
| 30               | 30  | M8  | 23 | 240                                | 150    | 100  | 900                    | 570    | 340   | 50                        | 30     | 20   | 430                    | 280    | 170  |
| 40               | 30  | M8  | 23 | 480                                | 300    | 170  | 1800                   | 1110   | 670   | 90                        | 60     | 30   | 770                    | 500    | 250  |
| 50               | 20  | M10 | 28 | 2400                               | 1500   | 900  | 5000                   | 3190   | 1870  | 240                       | 160    | 100  | 1200                   | 770    | 460  |
| 50               | 40  | M10 | 28 | 600                                | 380    | 220  | 2800                   | 1750   | 1050  | 120                       | 80     | 50   | 1280                   | 800    | 460  |
| 75               | 25  | M12 | 37 | 5000                               | 2900   | 1700 | 12800                  | 8000   | 4700  | 410                       | 260    | 160  | 2800                   | 1750   | 1030 |
| 75               | 55  | M12 | 37 | 650                                | 400    | 240  | 4700                   | 3000   | 1750  | 130                       | 80     | 50   | 2100                   | 1300   | 800  |
| 100              | 40  | M16 | 43 | 3000                               | 1900   | 1100 | 15200                  | 9500   | 5600  | 370                       | 220    | 140  | 4450                   | 2770   | 1650 |
| 100              | 55  | M16 | 43 | 1600                               | 1120   | 700  | 12900                  | 8000   | 4800  | 300                       | 190    | 130  | 4450                   | 2770   | 1650 |
| 100              | 75  | M16 | 43 | 1250                               | 710    | 430  | 10100                  | 6130   | 3710  | 250                       | 160    | 90   | 4400                   | 2700   | 1600 |
| 150              | 75  | M16 | 43 | 2900                               | 1900   | 1200 | 17500                  | 10600  | 6500  | 490                       | 310    | 210  | 6130                   | 3910   | 2150 |
| 150              | 75  | M20 | 43 | 2900                               | 1900   | 1200 | 17500                  | 10600  | 6500  | 490                       | 310    | 210  | 6130                   | 3910   | 2150 |
| 200              | 100 | M20 | 46 | 3510                               | 2490   | 1450 | 32600                  | 20050  | 12160 | 520                       | 380    | 220  | 11900                  | 7120   | 4260 |

Article no. H-02... type B

| Dimensions in mm |    |     |    | Compressive stresses               |        |      |                        |        |      | Shoe stresses             |        |      |                        |        |      |
|------------------|----|-----|----|------------------------------------|--------|------|------------------------|--------|------|---------------------------|--------|------|------------------------|--------|------|
|                  |    |     |    | Spring rate c <sub>2</sub> in N/mm |        |      | Acceptable load F in N |        |      | Spring rate c x/y in N/mm |        |      | Acceptable load F in N |        |      |
| D                | H  | G   | L  | Hard                               | Middle | Soft | Hard                   | Middle | Soft | Hard                      | Middle | Soft | Hard                   | Middle | Soft |
| 25               | 20 | M6  | 18 | 320                                | 160    | 120  | 490                    | 320    | 190  | 70                        | 45     | 25   | 230                    | 160    | 90   |
| 30               | 20 | M8  | 23 | 660                                | 430    | 260  | 830                    | 520    | 310  | 100                       | 75     | 50   | 330                    | 210    | 130  |
| 30               | 30 | M8  | 23 | 350                                | 220    | 130  | 750                    | 450    | 280  | 70                        | 50     | 30   | 350                    | 220    | 130  |
| 40               | 30 | M8  | 23 | 550                                | 350    | 210  | 1250                   | 750    | 450  | 110                       | 70     | 40   | 520                    | 330    | 200  |
| 50               | 40 | M10 | 28 | 560                                | 370    | 220  | 2100                   | 1270   | 760  | 120                       | 80     | 45   | 930                    | 580    | 350  |
| 50               | 50 | M10 | 28 | 350                                | 220    | 130  | 1750                   | 1100   | 650  | 80                        | 50     | 30   | 800                    | 510    | 310  |
| 75               | 50 | M12 | 37 | 950                                | 630    | 330  | 4700                   | 2910   | 1720 | 180                       | 120    | 80   | 1900                   | 1200   | 710  |
| 100              | 40 | M16 | 43 | 3300                               | 1700   | 1200 | 6800                   | 4300   | 2600 | 450                       | 250    | 150  | 2300                   | 1400   | 850  |
| 100              | 75 | M16 | 43 | 1100                               | 700    | 410  | 7400                   | 4500   | 2700 | 210                       | 120    | 70   | 2900                   | 1910   | 1090 |

Article no. H-03... type C

| Dimensions in mm |     |     |    | Compressive stresses               |        |      |                        |        |       | Shoe stresses             |        |      |                        |        |      |
|------------------|-----|-----|----|------------------------------------|--------|------|------------------------|--------|-------|---------------------------|--------|------|------------------------|--------|------|
|                  |     |     |    | Spring rate c <sub>2</sub> in N/mm |        |      | Acceptable load F in N |        |       | Spring rate c x/y in N/mm |        |      | Acceptable load F in N |        |      |
| D                | H   | G   | L  | Hard                               | Middle | Soft | Hard                   | Middle | Soft  | Hard                      | Middle | Soft | Hard                   | Middle | Soft |
| 20               | 25  | M6  | 6  | 200                                | 130    | 80   | 300                    | 190    | 120   | 50                        | 30     | 20   | 150                    | 90     | 60   |
| 30               | 30  | M8  | 8  | 590                                | 380    | 220  | 720                    | 450    | 270   | 90                        | 60     | 50   | 260                    | 170    | 110  |
| 40               | 30  | M8  | 8  | 900                                | 570    | 340  | 1080                   | 680    | 410   | 150                       | 90     | 60   | 380                    | 240    | 140  |
| 50               | 30  | M10 | 10 | 1700                               | 1090   | 650  | 2500                   | 1750   | 950   | 210                       | 150    | 70   | 470                    | 290    | 170  |
| 50               | 50  | M10 | 10 | 360                                | 220    | 140  | 1390                   | 870    | 520   | 80                        | 40     | 30   | 610                    | 390    | 230  |
| 75               | 50  | M12 | 12 | 1010                               | 630    | 370  | 3650                   | 2050   | 1200  | 200                       | 130    | 80   | 1560                   | 980    | 580  |
| 100              | 75  | M16 | 16 | 1300                               | 800    | 480  | 4700                   | 2900   | 1690  | 210                       | 140    | 70   | 1950                   | 1250   | 700  |
| 150              | 75  | M16 | 16 | 2650                               | 1650   | 980  | 14800                  | 9100   | 5500  | 430                       | 270    | 170  | 5450                   | 3400   | 2010 |
| 200              | 100 | M20 | 20 | 3500                               | 2300   | 1300 | 33300                  | 20700  | 12900 | 510                       | 330    | 210  | 11000                  | 6810   | 4000 |

# Rubber-metal-buffer

Load table for miscellaneous types with different rubber hardness

The given acceptable loads constitute only approximate values for statical loads

Middle: ca. 55 Shore A  
Article no. H-04... type D

| Dimensions in mm |     |     |    | Compressive stresses    |                        |
|------------------|-----|-----|----|-------------------------|------------------------|
|                  |     |     |    | Spring rate c 2 in N/mm | Acceptable load F in N |
| D                | H   | G   | L  | Middle                  | Middle                 |
| 18               | 7,5 | M4  | 11 | 340                     | 240                    |
| 25               | 20  | M6  | 18 | 150                     | 260                    |
| 30               | 20  | M8  | 23 | 330                     | 730                    |
| 40               | 30  | M8  | 23 | 250                     | 950                    |
| 50               | 20  | M10 | 28 | 660                     | 1750                   |
| 75               | 25  | M12 | 37 | 1430                    | 4650                   |
| 100              | 40  | M16 | 43 | 1450                    | 7850                   |
| 200              | 100 | M20 | 43 | 2000                    | 18000                  |

Article no.: H-05... type E

| Dimensions in mm |     |     | Compressive stresses    |                        |
|------------------|-----|-----|-------------------------|------------------------|
|                  |     |     | Spring rate c 2 in N/mm | Acceptable load F in N |
| d                | h   | ig  | Middle                  | Middle                 |
| 20               | 15  | M6  | 200                     | 240                    |
| 30               | 15  | M8  | 580                     | 660                    |
| 40               | 30  | M8  | 360                     | 940                    |
| 50               | 20  | M10 | 740                     | 1150                   |
| 75               | 25  | M12 | 1730                    | 3250                   |
| 100              | 40  | M16 | 1450                    | 5030                   |
| 150              | 75  | M16 | 1510                    | 12240                  |
| 200              | 100 | M20 | 2200                    | 23000                  |

## Rubber-metal-buffer

### Overview of materials According to ASTM-D 1418-76

● = deliverable material

|   |    |         | Polymer                           | Varied trade names            |
|---|----|---------|-----------------------------------|-------------------------------|
| ● | 1  | NR      | Natural caoutchouc                |                               |
|   | 2  | IR      | Isoprene caoutchuc                | Natsyn, Criflex IR            |
| ● | 3  | SBR     | Styrene butadiene caoutchuc       | Buna Hüls, Polysar S, Soprene |
|   | 4  | BR      | Butadiene caoutchuc               | Buna CB, Polybutadien K       |
| ● | 5  | IIR     | Butyl caoutchuc                   | Poysar Butyl, Esso-Butyl      |
| ● | 6  | EPDM    | Ethylene-propylene terpolymerisat | Keltan, Buna AP, Dutral       |
| ● | 7  | NBR     | Acrylonitrile butadiene caoutchuc | Perbunan, Polysar-Krynac      |
|   | 8  | CO, ECO | Epichlorhydrin caoutchuc          | Herclor, Hydrin               |
| ● | 9  | CR      | Chloroprene caoutchuc             | Baypren, Neoprene             |
|   | 10 | CSM     | Chlorosulfonated polyethylene     | Hypalon                       |
|   | 11 | AU, EU  | Urethane caoutchuc                | Urepan, Adiprene C            |
|   | 12 | T       | Polysulfide caoutchuc             | Thiokol                       |
|   | 13 | SI      | Silicone caoutchuc                | Silopren                      |
|   | 14 | FSI     | Fluorine-silicone caoutchuc       | Silastic                      |
|   | 15 | FKM     | Fluorine caoutchuc                | Viton, Fluorel, Tecnoflon     |
|   | 16 | ACM     | Polyacrylate caoutchuc            | Hycar                         |
|   | 17 | PUR     | Polyurethane                      | Vulkollan                     |
|   | 18 | PTEE    | Polytetrafluoroethylene           | Teflon, Hostaflon             |

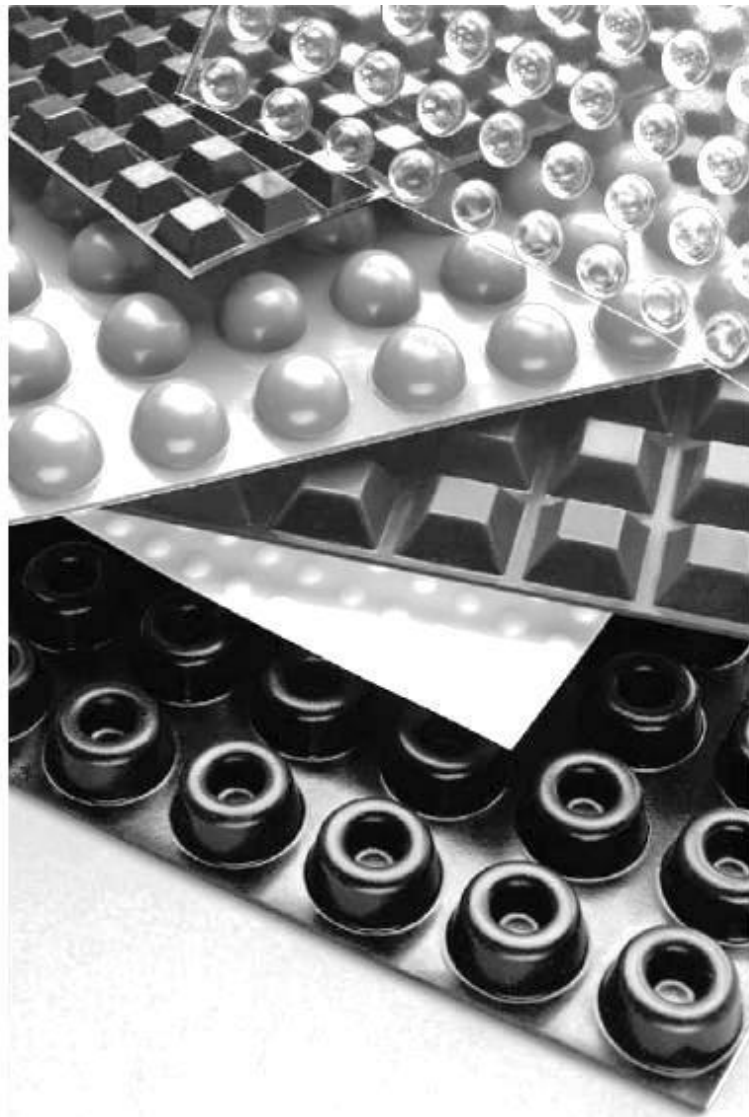
### Overview table Qualities of the individual materials

| Qualities                      | NR | IR | SBR | BR  | IIR | EPDM | NBR | ECO | CR  | CSM | AU  | T   | SI  | FSI | FKM | ACM | PUR | PTFE |
|--------------------------------|----|----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| Tear resistance non-reinforced | 1  | 2  | 5   | 6   | 4   | 5    | 5   | 5   | 3   | 5   | 2   | 6   | 6   | 6   | 5   | 6   | 1   | 1    |
| Tear resistance reinforced     | 1  | 2  | 2   | 4   | 3   | 3    | 2   | 3   | 2   | 3   | 1   | 5   | 4   | 4   | 3   | 3   | -   | 1    |
| Elongation at break            | 1  | 1  | 2   | 3   | 2   | 3    | 2   | 3   | 2   | 3   | 2   | 4   | 4   | 4   | 3   | 3   | 2   | 3    |
| Rebound elasticity             | 2  | 2  | 3   | 1   | 6   | 3    | 3   | 2   | 3   | 4   | 3   | 4   | 3   | 3   | 5   | 5   | 2   | x    |
| Abrasion resistance            | 2  | 2  | 2   | 1   | 3   | 3    | 2   | 3   | 2   | 3   | 1   | 5   | 5   | 5   | 4   | 4   | 1   | 3    |
| Initial tear resistance        | 2  | 2  | 3   | 5   | 3   | 3    | 3   | 3   | 2   | 4   | 3   | 4   | 6   | 6   | 3   | 4   | 1   | 2    |
| Electrical resistance          | 1  | 1  | 2   | 2   | 2   | 2    | 4   | 5   | 3   | 4   | 3   | 3   | 1   | 1   | 4   | 4   | 2   | 1    |
| Temperature range, hot + °C    | 90 | 90 | 100 | 100 | 140 | 150  | 130 | 145 | 120 | 130 | 120 | 140 | 200 | 200 | 220 | 160 | 80  | 260  |
| Temperature range, cold -°C    | 50 | 40 | 40  | 60  | 40  | 40   | 40  | 40  | 30  | 40  | 20  | 30  | 80  | 80  | 25  | 20  | 35  | 190  |
| Ageing resistance              | 3  | 3  | 3   | 3   | 2   | 1    | 3   | 2   | 2   | 2   | 2   | 3   | 1   | 1   | 1   | 2   | 1   | 1    |
| Ozone resistance               | 4  | 4  | 4   | 3   | 2   | 1    | 3   | 2   | 2   | 2   | 2   | 2   | 1   | 1   | 1   | 2   | 1   | 1    |
| Petrol resistance              | 6  | 6  | 4   | 5   | 6   | 5    | 1   | 1   | 2   | 2   | 1   | 1   | 5   | 1   | 1   | 1   | 2   | 1    |
| Oil and fat resistance         | 6  | 6  | 5   | 6   | 6   | 4    | 1   | 1   | 2   | 2   | 4   | 4   | 4   | 4   | 4   | 4   | 2   | 1    |
| Acid resistance                | 3  | 3  | 3   | 3   | 2   | 1    | 4   | 5   | 2   | 2   | 5   | 4   | 5   | 4   | 1   | 5   | 6   | 1    |
| Mineral oil resistance         | 3  | 3  | 3   | 3   | 2   | 2    | 3   | 5   | 2   | 2   | 5   | 3   | 5   | 4   | 1   | 5   | 6   | 1    |
| Hot water                      | 3  | 3  | 2   | 3   | 1   | 2    | 3   | 4   | 3   | 3   | 5   | 3   | 5   | 4   | 2   | 5   | 6   | 1    |

1 = excellent,  
2 = very good, 3 = good,  
4 = moderate,  
5 = low,  
6 = insufficient,  
x = no comparison with elastomer



## Self adhesive rubber buffers „Bumper“





## Self adhesive rubber buffers „Bumper“

- einfache Handhabung
- exzellente Verschleißfestigkeit
- elastisch, bruchfest, unverwüstlich
- kein Abfärben
- keine Beschädigung von Oberflächen
- vibrations- und stoßdämpfend
- ausgezeichnete Reibungs- und Rutschfestigkeit
- enthalten keine Weichmacher, Öle oder Füllstoffe
- RoHS-konform
- UL-geprüft



### Adhesive rubber buffers - "Bumpers"

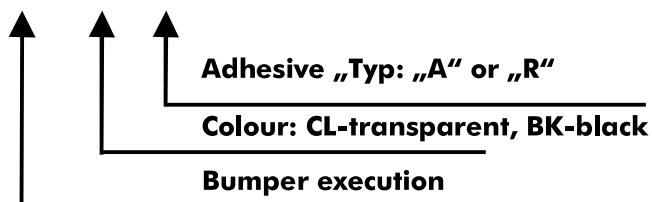
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Adhesive rubber buffers - **Cylindrical**  
 Adhesive rubber buffers - **Half round**  
 Adhesive rubber buffers - **Square**  
 Adhesive rubber buffers - **Cylindrical countersunk**  
 Adhesive rubber buffers - **Silencing**  
 Adhesive rubber buffers - **Conical**  
 Adhesive rubber buffers - **Technical information**

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### Ordering example:

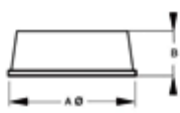
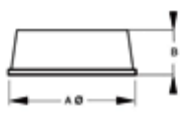
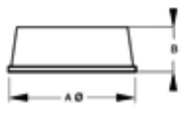
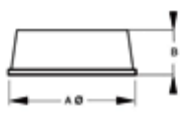
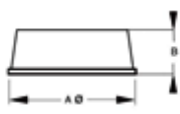
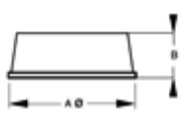
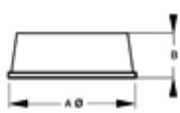
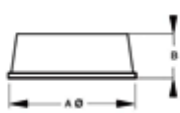
Art.No. **HS-33 . GL-R**





# Adhesive Rubber buffers „Bumper“

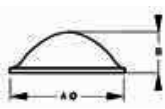
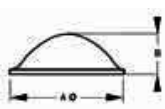
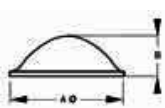
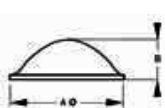
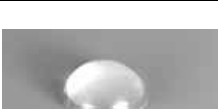
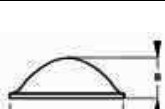
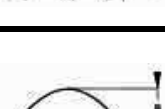
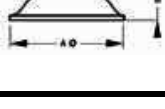
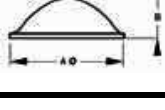
## Adhesive rubber buffers „Bumpers“

| Cylindrical                                                                         |                                                                                     | Article no.  | Colour | Colour |      | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------|--------|------|--------------|-----------------|--------------|
|                                                                                     |                                                                                     |              |        | A Ø    | B    |              |                 |              |
|    |    | P-HS-34-CL-R | None   | 9.5    | 3.2  | 300          | 6,000           | 300          |
|                                                                                     |                                                                                     | P-HS-34-BK-R | Black  | 9.5    | 3.2  | 300          | 6,000           | 6,000        |
|                                                                                     |                                                                                     | P-HS-34-GR-R | Gray   | 9.5    | 3.2  | 300          | 6,000           | 6,000        |
|                                                                                     |                                                                                     | P-HS-34-WH-R | White  | 9.5    | 3.2  | 300          | 6,000           | 6,000        |
|    |    | P-HS-35-CL-R | None   | 9.5    | 4.8  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-35-BK-R | Black  | 9.5    | 4.8  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|    |    | P-HS-05-CL-R | None   | 12.7   | 1.5  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-05-BK-R | Black  | 12.7   | 1.5  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-05-GR-R | Gray   | 12.7   | 1.5  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-05-WH-R | White  | 12.7   | 1.5  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-05-BR-R | Braun  | 12.7   | 1.5  | 200          | 5,000           | 5,000        |
|   |   | P-HS-01-CL-R | None   | 12.7   | 3.5  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-01-BK-R | Black  | 12.7   | 3.5  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-01-GR-R | Gray   | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-01-WH-R | White  | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-01-BR-R | Brown  | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|  |  | P-HS-06-CL-R | None   | 12.7   | 6.4  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-06-BK-R | Black  | 12.7   | 6.4  | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-06-WH-R | White  | 12.7   | 6.4  | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|  |  | P-HS-11-CL-R | None   | 16.5   | 10.2 | 128          | 2,560           | 128          |
|                                                                                     |                                                                                     | P-HS-11-BK-R | Black  | 16.5   | 10.2 | 128          | 2,560           | 128          |
|                                                                                     |                                                                                     | P-HS-11-GR-R | Gray   | 16.5   | 10.2 | 128          | 2,560           | 2,560        |
|  |  | P-HS-44-CL-R | None   | 19.1   | 4.1  | 98           | 2,450           | 98           |
|                                                                                     |                                                                                     | P-HS-44-BK-R | Black  | 19.1   | 4.1  | 98           | 2,450           | 98           |
|                                                                                     |                                                                                     | P-HS-44-WH-R | White  | 19.1   | 4.1  | 98           | 2,450           | 2,450        |
|  |  | P-HS-41-CL-R | None   | 19.8   | 5.1  | 84           | 3,360           | 84           |
|                                                                                     |                                                                                     | P-HS-41-BK-R | Black  | 19.8   | 5.1  | 84           | 3,360           | 84           |
|                                                                                     |                                                                                     | P-HS-41-GR-R | Gray   | 19.8   | 5.1  | 84           | 3,360           | 3,360        |
|  |  | P-HS-24-CL-R | None   | 20.6   | 3.0  | 72           | 2,520           | 72           |
|                                                                                     |                                                                                     | P-HS-24-BK-R | Black  | 20.6   | 3.0  | 72           | 2,520           | 2,520        |
|                                                                                     |                                                                                     | P-HS-24-GR-R | Gray   | 20.6   | 3.0  | 72           | 2,520           | 2,520        |
|                                                                                     |                                                                                     | P-HS-24-WH-R | White  | 20.6   | 3.0  | 72           | 2,520           | 2,520        |
|                                                                                     |                                                                                     | P-HS-24-BR-R | Brown  | 20.6   | 3.0  | 72           | 2,520           | 2,520        |
|  |  | P-HS-72-CL-R | None   | 31.24  | 2.54 | 32           | 2,400           | 32           |
|                                                                                     |                                                                                     | P-HS-72-BK-R | Black  | 31.24  | 2.54 | 32           | 2,400           | 2,400        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

# Adhesive Rubber buffers „Bumper“

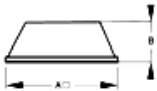
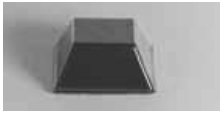
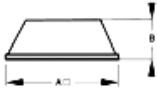
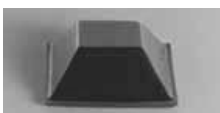
## Adhesive rubber buffers „Bumpers“

| Half round                                                                          |                                                                                     | Article no.  | Colour | Colour |     | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------|--------|-----|--------------|-----------------|--------------|
|                                                                                     |                                                                                     |              |        | A Ø    | B   |              |                 |              |
|    |    | P-HS-40-CL-R | None   | 6.4    | 1.6 | 272          | 11,424          | 272          |
|                                                                                     |                                                                                     | P-HS-40-BK-R | Black  | 6.4    | 1.6 | 272          | 11,424          | 272          |
|                                                                                     |                                                                                     | P-HS-40-WH-R | White  | 6.4    | 1.6 | 272          | 11,424          | 11,424       |
|    |    | P-HS-25-CL-R | None   | 6.4    | 2.1 | 450          | 5,400           | 450          |
|                                                                                     |                                                                                     | P-HS-25-BK-R | Black  | 6.4    | 2.1 | 450          | 5,400           | 5,400        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |
|    |    | P-HS-27-CL-R | None   | 7.9    | 2.2 | 75           | 5,400           | 75           |
|                                                                                     |                                                                                     | P-HS-27-BK-R | Black  | 7.9    | 2.2 | 75           | 5,400           | 5,400        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |
|   |   | P-HS-07-CL-R | None   | 8.5    | 2.2 | 144          | 5,040           | 144          |
|                                                                                     |                                                                                     | P-HS-07-BK-R | Black  | 8.5    | 2.2 | 144          | 5,040           | 5,040        |
|                                                                                     |                                                                                     | P-HS-07-WH-R | White  | 8.5    | 2.2 | 144          | 5,040           | 5,040        |
|  |  | P-HS-12-CL-R | None   | 9.5    | 3.8 | 72           | 7,200           | 72           |
|                                                                                     |                                                                                     | P-HS-12-BK-R | Black  | 9.5    | 3.8 | 72           | 7,200           | 7,200        |
|                                                                                     |                                                                                     | P-HS-12-GR-R | Gray   | 9.5    | 3.8 | 72           | 7,200           | 7,200        |
|                                                                                     |                                                                                     | P-HS-12-WH-R | White  | 9.5    | 3.8 | 72           | 7,200           | 7,200        |
|                                                                                     |                                                                                     | P-HS-12-BR-R | Brown  | 9.5    | 3.8 | 72           | 7,200           | 7,200        |
|  |  | P-HS-22-CL-R | None   | 9.5    | 5.4 | 300          | 6,000           | 300          |
|                                                                                     |                                                                                     | P-HS-22-BK-R | Black  | 9.5    | 5.4 | 300          | 6,000           | 6,000        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |
|  |  | P-HS-02-CL-R | None   | 11.1   | 5.1 | 242          | 5,082           | 242          |
|                                                                                     |                                                                                     | P-HS-02-BK-R | Black  | 11.1   | 5.1 | 242          | 5,082           | 242          |
|                                                                                     |                                                                                     | P-HS-02-GR-R | Gray   | 11.1   | 5.1 | 242          | 5,082           | 5,082        |
|                                                                                     |                                                                                     | P-HS-02-WH-R | White  | 11.1   | 5.1 | 242          | 5,082           | 5,082        |
|                                                                                     |                                                                                     | P-HS-02-BR-R | Brown  | 11.1   | 5.1 | 242          | 5,082           | 5,082        |
|  |  | P-HS-15-CL-R | None   | 15.7   | 7.9 | 128          | 3,200           | 128          |
|                                                                                     |                                                                                     | P-HS-15-BK-R | Black  | 15.7   | 7.9 | 128          | 3,200           | 128          |
|                                                                                     |                                                                                     | P-HS-15-GR-R | Gray   | 15.7   | 7.9 | 128          | 3,200           | 3,200        |
|                                                                                     |                                                                                     | P-HS-15-WH-R | White  | 15.7   | 7.9 | 128          | 3,200           | 3,200        |
|                                                                                     |                                                                                     | P-HS-15-BR-R | Brown  | 15.7   | 7.9 | 128          | 3,200           | 3,200        |
|  |  | P-HS-08-CL-R | None   | 17.8   | 9.6 | 98           | 2,254           | 98           |
|                                                                                     |                                                                                     | P-HS-08-BK-R | Black  | 17.8   | 9.6 | 98           | 2,254           | 2,254        |
|                                                                                     |                                                                                     | P-HS-08-GR-R | Gray   | 17.8   | 9.6 | 98           | 2,254           | 2,254        |
|                                                                                     |                                                                                     | P-HS-08-WH-R | White  | 17.8   | 9.6 | 98           | 2,254           | 2,254        |
|  |  | P-HS-39-CL-R | None   | 19.1   | 1.9 | 84           | 5,040           | 84           |
|                                                                                     |                                                                                     | P-HS-39-BK-R | Black  | 19.1   | 1.9 | 84           | 5,040           | 5,040        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

# Adhesive Rubber buffers „Bumper“

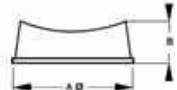
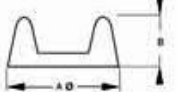
## Adhesive rubber buffers „Bumpers“

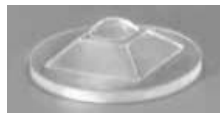
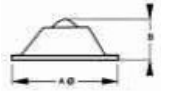
| Square                                                                              |                                                                                     | Article no.  | Colour | Colour |     | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------|--------|-----|--------------|-----------------|--------------|
|                                                                                     |                                                                                     |              |        | A□     | B   |              |                 |              |
|    |    | P-HS-20-CL-R | None   | 10.2   | 2.5 | 242          | 5,082           | 242          |
|                                                                                     |                                                                                     | P-HS-20-BK-R | Black  | 10.2   | 2.5 | 242          | 5,082           | 5,082        |
|                                                                                     |                                                                                     | P-HS-20-GR-R | Gray   | 10.2   | 2.5 | 242          | 5,082           | 5,082        |
|                                                                                     |                                                                                     | P-HS-20-WH-R | White  | 10.2   | 2.5 | 242          | 5,082           | 5,082        |
|                                                                                     |                                                                                     | P-HS-20-BR-R | Brown  | 10.2   | 2.5 | 242          | 5,082           | 5,082        |
|    |    | P-HS-32-CL-R | None   | 12.7   | 3.0 | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-32-BK-R | Black  | 12.7   | 3.0 | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-32-GR-R | Gray   | 12.7   | 3.0 | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-32-WH-R | White  | 12.7   | 3.0 | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-32-BR-R | Brown  | 12.7   | 3.0 | 200          | 5,000           | 5,000        |
|   |    | P-HS-03-CL-R | None   | 12.7   | 5.8 | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     | P-HS-03-BK-R | Black  | 12.7   | 5.8 | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-03-GR-R | Gray   | 12.7   | 5.8 | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-03-WH-R | White  | 12.7   | 5.8 | 200          | 5,000           | 5,000        |
|                                                                                     |                                                                                     | P-HS-03-BR-R | Brown  | 12.7   | 5.8 | 200          | 5,000           | 5,000        |
|  |  | P-HS-29-CL-A | None   | 19.8   | 6.4 | 98           | 2,940           | 98           |
|                                                                                     |                                                                                     | P-HS-29-BK-A | Black  | 19.8   | 6.4 | 98           | 2,940           | 2,940        |
|                                                                                     |                                                                                     | P-HS-29-BR-A | Brown  | 19.8   | 6.4 | 98           | 2,940           | 2,940        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |
|  |  | P-HS-04-CL-R | None   | 19.8   | 9.7 | 1            | 2,000           | 100          |
|                                                                                     |                                                                                     | P-HS-04-BK-R | Black  | 19.8   | 9.7 | 1            | 2,000           | 2,000        |
|                                                                                     |                                                                                     | P-HS-04-GR-R | Gray   | 19.8   | 9.7 | 1            | 2,000           | 2,000        |
|                                                                                     |                                                                                     | P-HS-04-BR-R | Brown  | 19.8   | 9.7 | 1            | 2,000           | 2,000        |
|  |  | P-HS-19-CL-R | None   | 20.6   | 7.6 | 98           | 2,646           | 98           |
|                                                                                     |                                                                                     | P-HS-19-BK-R | Black  | 20.6   | 7.6 | 98           | 2,646           | 98           |
|                                                                                     |                                                                                     | P-HS-19-GR-R | Gray   | 20.6   | 7.6 | 98           | 2,646           | 2,646        |
|                                                                                     |                                                                                     | P-HS-19-BR-R | Brown  | 20.6   | 7.6 | 98           | 2,646           | 2,646        |
|  |  | P-HS-36-CL-R | None   | 25.4   | 4.6 | 55           | 2,310           | 2,310        |
|                                                                                     |                                                                                     | P-HS-36-BK-R | Black  | 25.4   | 4.6 | 55           | 2,310           | 2,310        |
|                                                                                     |                                                                                     | P-HS-36-GR-R | Gray   | 25.4   | 4.6 | 55           | 2,310           | 2,310        |
|                                                                                     |                                                                                     |              |        |        |     |              |                 |              |

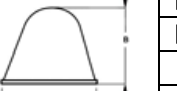
All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

# Adhesive Rubber buffers „Bumper“

## Adhesive rubber buffers „Bumpers“

| Cylindrical countersunk                                                           |                                                                                   | Article no.  | Colour | Colour |      | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|--------|--------|------|--------------|-----------------|--------------|
|                                                                                   |                                                                                   |              |        | A Ø    | B    |              |                 |              |
|  |  | P-HS-18-CL-R | None   | 12.7   | 3.5  | 200          | 5,000           | 200          |
|                                                                                   |                                                                                   | P-HS-18-BK-R | Black  | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|                                                                                   |                                                                                   | P-HS-18-GR-R | Gray   | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|                                                                                   |                                                                                   | P-HS-18-WH-R | White  | 12.7   | 3.5  | 200          | 5,000           | 5,000        |
|  |  | P-HS-17-CL-R | None   | 22.3   | 10.2 | 72           | 1,440           | 72           |
|                                                                                   |                                                                                   | P-HS-17-BK-R | Black  | 22.3   | 10.2 | 72           | 1,440           | 72           |
|                                                                                   |                                                                                   | P-HS-17-GR-R | Gray   | 22.3   | 10.2 | 72           | 1,440           | 1,440        |
|                                                                                   |                                                                                   | P-HS-17-WH-R | White  | 22.3   | 10.2 | 72           | 1,440           | 1,440        |
|                                                                                   |                                                                                   | P-HS-17-BR-R | Brown  | 22.3   | 10.2 | 72           | 1,440           | 1,440        |
|  |  | P-HS-30-CL-A | None   | 46.0   | 15.2 | 1            | 500             | 500          |
|                                                                                   |                                                                                   | P-HS-30-BK-A | Black  | 46.0   | 15.2 | 1            | 500             | 500          |
|                                                                                   |                                                                                   | P-HS-30-GR-A | Gray   | 46.0   | 15.2 | 1            | 500             | 500          |
|                                                                                   |                                                                                   | P-HS-30-WH-A | White  | 46.0   | 15.2 | 1            | 500             | 500          |
|                                                                                   |                                                                                   | P-HS-30-BR-A | Brown  | 46.0   | 15.2 | 1            | 500             | 500          |

| Silencing                                                                           |                                                                                     | Article no.     | Colour | Colour |     | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|--------|--------|-----|--------------|-----------------|--------------|
|                                                                                     |                                                                                     |                 |        | A Ø    | B   |              |                 |              |
|  |  | P-HS-33-SD-CL-R | None   | 12.7   | 3.8 | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |
|  |  | P-HS-58-SD-CL-R | None   | 12.7   | 5.1 | 200          | 5,000           | 200          |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |
|                                                                                     |                                                                                     |                 |        |        |     |              |                 |              |

| Conical                                                                             |                                                                                     | Article no.  | Colour | Colour |      | VPE<br>Piece | Carton<br>Piece | MOQ<br>Piece |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------|--------|------|--------------|-----------------|--------------|
|                                                                                     |                                                                                     |              |        | A Ø    | B    |              |                 |              |
|  |  | P-HS-37-CL-A | None   | 18.3   | 14.2 | 1            | 1,500           | 1,500        |
|                                                                                     |                                                                                     | P-HS-37-BK-A | Black  | 18.3   | 14.2 | 1            | 1,500           | 1,500        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|  |  | P-HS-47-CL-A | None   | 19.1   | 19.1 | 1            | 1,000           | 1,000        |
|                                                                                     |                                                                                     | P-HS-47-BK-A | Black  | 19.1   | 19.1 | 1            | 1,000           | 1,000        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|  |  | P-HS-57-CL-A | None   | 20.0   | 22.5 | 1            | 1,000           | 1,000        |
|                                                                                     |                                                                                     | P-HS-57-BK-A | Black  | 20.0   | 22.5 | 1            | 1,000           | 1,000        |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |
|                                                                                     |                                                                                     |              |        |        |      |              |                 |              |

All colours in mm · MOQ = Minimum order quantity or a multiple thereof.

# Adhesive Rubber buffers „Bumper“

## Technical information - Adhesive rubber buffers “Bumpers”

| Material: polyurethane           | Standard  | SD-Completion |
|----------------------------------|-----------|---------------|
| Hardness shore A                 | 60° - 70° | 50° - 55°     |
| Tensile strength g/cm 2          | 44,802    | 52,730        |
| Ultimate strain %                | 192       | 607           |
| Breaking strength g/cm           | 38,216    | 22,680        |
| Wearing resistance g/1000 cycles | 0.016     | 0.010         |
| Flammability:                    | UL-94 HBF | UL-94 HBF     |

Die SD-Completion is used specially for silencing.  
The completion is not designed for heavy loads.

**Tolerances:** + / – 0.5 mm

**Colours:** None, Black, White, Gray, and Brown (see table).  
The crystal-clear bumper is almost invisible in gleam or translucent applications.

### Adhesive:

**Type R:** Standard for all Bumpers, except  
P-HS-29, P-HS-30, P-HS-37, P-HS-47, P-HS-57

Dynamic synthetical rubber adhesive  
with high shearing force, solvent based

Temperature processing: +18° ... + 65° C

Durability: +18° ... + 82° C

**Type A:** deliverable on enquiry, for  
P-HS-29, P-HS-30, P-HS-37, P-HS-47,  
P-B5-57 standard.

Powerful acrylic-adhesive with high shearing force,  
fast liability, cold resistant,  
solvent based

Temperature processing: + 18° ... + 65° C

Durability: -40° ... + 149° C

**Storage:** by 23° C and 55% rel.  
air humidity

Delivery form: on punched cards

Amount of Bumpers, see table (VPE)

### Usage instructions:

To achieve the highest liability, the surface must be smooth, even, not porous, dry, clean and free from oil, fat, solvents and dirt. Through bending of the carrier plate, the bumpers can be taken off easily. At doing this do not touch the adhesive. Press the bumpers with sufficient pressure to achieve a complete connection. After 24 hours the maximal liability is achieved and the bumpers can suspend great forces or weights.

The bumpers do not contain any plasticizers, which could possibly damage the surface. The user should prove the suitability of the bumpers for the specifical utility, under the given conditions.

# Adhesive Rubber buffers „Bumper“

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