

# Steel or stainless steel invisible hinge

Sta

## CHINV For nested doors or surface mounted doors

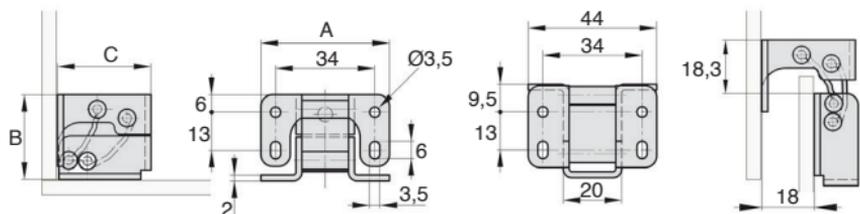
- Invisible hinge with connecting rods
- 90° opening
- Material:  
Zinc-plated steel with 430 stainless steel pin and rod  
Stainless steel 316L raw

### Advantage

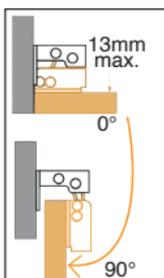
- Invisible when the door is closed

### Mounting

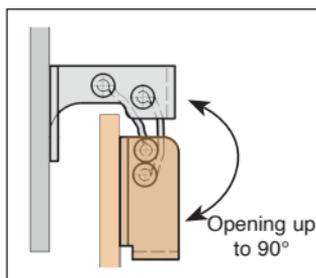
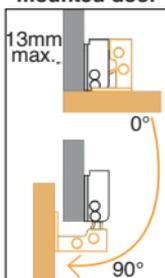
- Flush or surface mounting
- Right- or left-hand mounting
- Vertical or horizontal mounting



Hanging a built-in door



Hanging a surface mounted door



### DISCOUNTS

|           |     |      |            |     |
|-----------|-----|------|------------|-----|
| Qty       | 1+  | 6+   | 20+        | 50+ |
| Disc. Net | -5% | -10% | On request |     |

| Part number   | Material             | A  | B  | C  | Weight (g) | Stock* | Price each |
|---------------|----------------------|----|----|----|------------|--------|------------|
| CHINV-4429    | Steel                | 44 | 29 | 32 | 64         | ✓      | 24,62 €    |
| CHINV-4429/SS | Stainless steel 316L | 44 | 29 | 32 | 64         | -      | 32,77 €    |

\*Depending on availability - Dimensions in mm

# Steel or stainless steel invisible hinge

## CHINV For nested doors or surface mounted doors

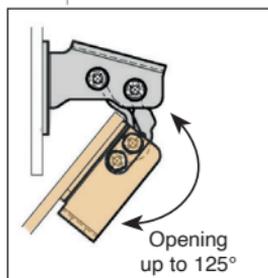
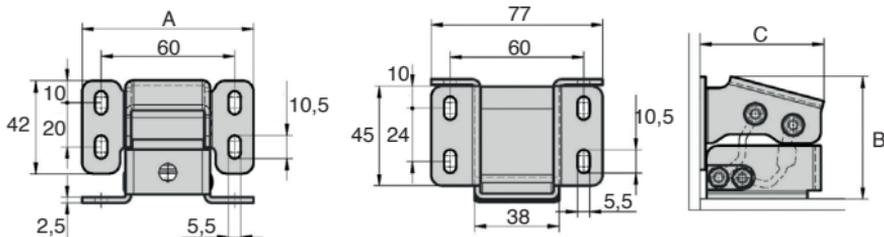
- Concealed hinges (Medium size)
- 125° opening
- Material:
  - Steel zinc plated or 316L stainless steel raw
  - Links in aluminium
  - Pin in zinc plated steel or in 304Cu stainless steel

### Advantage

- Invisible when the door is closed

### Assembly

- For nested doors or surface mounted doors
  - LH or RH options
  - For horizontal or vertical applications.
- Opening angle differs according to door thickness:
- For thickness up to 10 mm: opening angle of 125°
  - 15 mm thickness: opening angle of 115°
  - 20 mm thickness: opening angle of 108°



### DISCOUNTS

|            |    |     |      |            |
|------------|----|-----|------|------------|
| Qty        | 1+ | 6+  | 20+  | 50+        |
| Disc. List |    | -5% | -10% | On request |

| Part number   | Material        | A  | B    | C    | Weight (g) | Price each |
|---------------|-----------------|----|------|------|------------|------------|
|               |                 |    |      |      |            | 1 to 5     |
| CHINV-7755    | Steel           | 77 | 55,2 | 54,0 | 250        | 18,74 €    |
| CHINV-7755/SS | Stainless steel | 77 | 55,2 | 54,0 | 250        | 35,27 €    |

Dimensions in mm



- Hinge that allows a panel or door to be opened in 30° steps and to maintain the position without the use of any additional support.

- Screw-on front hinge
- Reduced size
- Max opening angle 180° (up to 270° depending on mounting arrangement)
- Working temp range: -30 to 70 °C
- Installed using DIN912 screws (not supplied)
- Materials:

Winds: Black anodised aluminium  
Positioning mechanism: raw sintered steel  
Washers: Black PA polyamide  
Screw/nut: stainless steel

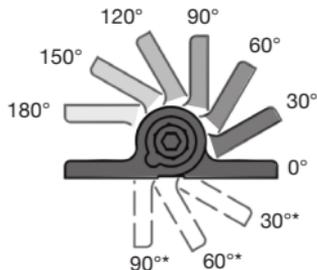
- Max N° of opening cycles: 30,000 (with 20% torque loss)

### Application

- Machine covers
- Industrial displays and LCD screens

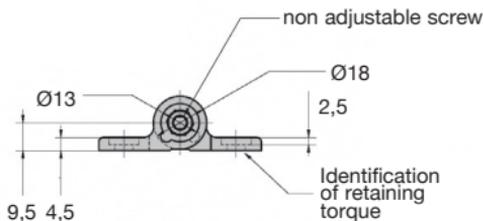
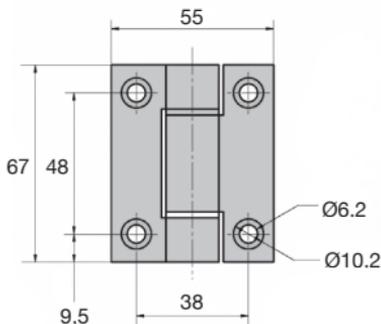
### Info

- The retaining torque is factory set and cannot be modified by the user



#### Angular indexing positions

\*given as a guide only, will depend on panel thickness



### DISCOUNTS

| Qty   | 1+   | 6+  | 20+        |
|-------|------|-----|------------|
| Disc. | List | -5% | On request |

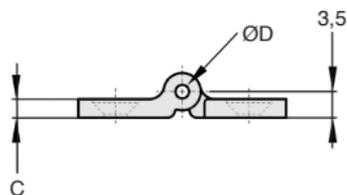
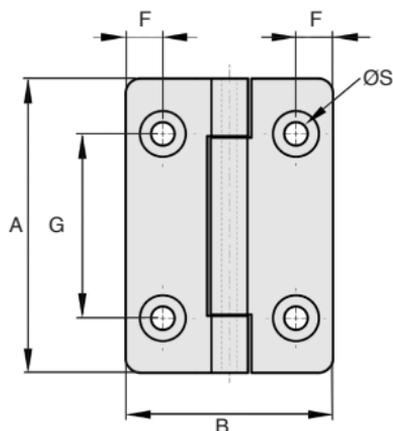
| Part number   | Panel holding torque**(Nm) | Required torque to move**(Nm) | Weight (g) | Stock* | Price each 1 to 5 |
|---------------|----------------------------|-------------------------------|------------|--------|-------------------|
| CHAK6755-L-AN | 0,8                        | 1,8                           | 106        | -      | 61,93 €           |
| CHAK6755-M-AN | 1,2                        | 2,5                           | 106        | -      | 67,43 €           |
| CHAK6755-H-AN | 2,0                        | 3,2                           | 106        | ✓      | 74,36 €           |

\*\*Tolerance +/-20% - \*Depending on availability - Dimensions in mm

- Screw-on front hinge
- Opening angle 270°
- Materials:
  - White or black acetal
  - 304 stainless steel pin
- Tested for 20,000 open/close cycles

### Advantage

- Miniature hinge, space saving
- Hold a door in position thanks to its self-locking system



### DISCOUNTS

|           |     |      |            |     |
|-----------|-----|------|------------|-----|
| Qty       | 1+  | 6+   | 20+        | 50+ |
| Disc. Net | -5% | -10% | On request |     |

| Part number     | Colour | A  | B  | C   | ØD | F | G  | ØS  | Friction torque (Nm) | Weight (g) | Stock* | Price each |
|-----------------|--------|----|----|-----|----|---|----|-----|----------------------|------------|--------|------------|
|                 |        |    |    |     |    |   |    |     |                      |            |        | 1 to 5     |
| CHAFR4028/MIN/B | Black  | 40 | 28 | 2,5 | 2  | 5 | 25 | 3,2 | 0,25                 | 5          | ✓      | 11,04 €    |
| CHAFR4028/MIN/W | White  | 40 | 28 | 2,5 | 2  | 5 | 25 | 3,2 | 0,25                 | 5          | ✓      | 11,04 €    |

\*Depending on availability - Dimensions in mm

# Adjustable friction hinges



## CHAFR

For opening and positioning a panel or door

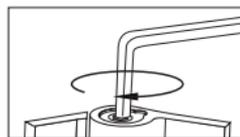
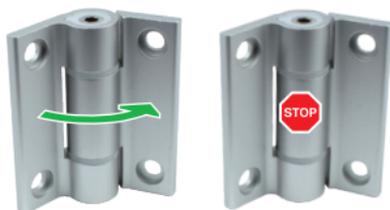
- Screw-on front hinge
- Materials :
  - Aluminium
  - Sleeve : POM
  - Adjustable screw : Stainless steel A2
- Plain or black anodised finish
- Holding force : 0 to 5 Nm max
- Adjusts using 4mm Allen key
- Withstands 6000N
- Shear force : 5000N
- Working temp range -20 to 80°C

### Advantages

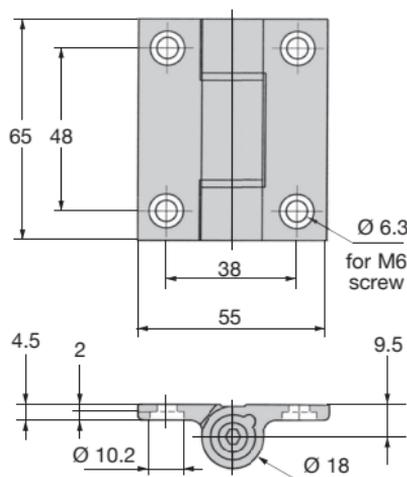
- Adjustable holding force
- Aesthetic hinge



Self locking



Setting of holding force



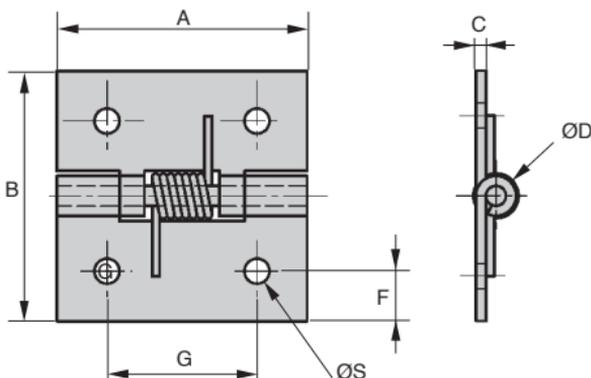
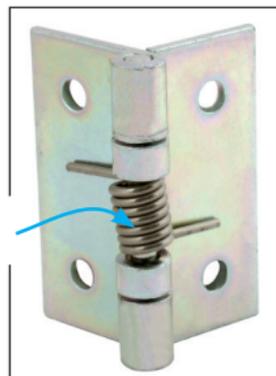
### DISCOUNTS

| Qty   | 1+   | 6+  | 20+  | 50+        |
|-------|------|-----|------|------------|
| Disc. | List | -5% | -10% | On request |

| Part number  | Finish         | Stock* | Price each 1 to 5 |
|--------------|----------------|--------|-------------------|
| CHAFR6555/AI | Clear anodised | ✓      | 20,14 €           |
| CHAFR6555/AN | Black anodised | ✓      | 26,10 €           |

\*Depending on availability - Dimensions in mm

- Hinge with opening or closing spring
- Sheet metal with rolled knot
- Materials:
  - CHAR hinge:** plated steel, spring :stainless steel
  - CHAR/SS hinge:** natural stainless steel 304: spring stainless steel
- Opening spring torque
  - M(0°): 1.5 Nm
  - M(90°): 1.1 Nm
  - M(180°): 0.65 Nm
- Closing spring torque
  - M(0°): 0.65 Nm
  - M(90°): 1.1 Nm
  - M(180°): 1.5 Nm



### DISCOUNTS

|            |    |     |      |            |
|------------|----|-----|------|------------|
| Qty        | 1+ | 6+  | 20+  | 50+        |
| Disc. List |    | -5% | -10% | On request |

| Part number            | A  | B  | C | ØD | F  | G  | ØS | Spring  | Weight (g) | Price each |         |
|------------------------|----|----|---|----|----|----|----|---------|------------|------------|---------|
|                        |    |    |   |    |    |    |    |         |            | Stock*     | 1 to 5  |
| <b>Steel</b>           |    |    |   |    |    |    |    |         |            |            |         |
| CHAR5050/Z             | 50 | 50 | 2 | 4  | 9  | 30 | 5  | Opening | 50         | ✓          | 10,52 € |
| CHAR5050-F/Z           | 50 | 50 | 2 | 4  | 9  | 30 | 5  | Closing | 50         | ✓          | 11,01 € |
| <b>Stainless steel</b> |    |    |   |    |    |    |    |         |            |            |         |
| CHAR5050/SS            | 50 | 50 | 2 | 4  | 10 | 30 | 5  | Opening | 50         | ✓          | 16,43 € |
| CHAR5050-F/SS          | 50 | 50 | 2 | 4  | 10 | 30 | 5  | Closing | 50         | ✓          | 18,90 € |

\*Depending on availability - Dimensions in mm

**- Hinge with opening or closing spring**

- Sheet metal with rolled knot

- Materials:

Hinges: steel

Spring: stainless steel 304

Finish: natural

- Opening spring torque:

M(0°): 0.09 Nm

M(90°): 0.07 Nm

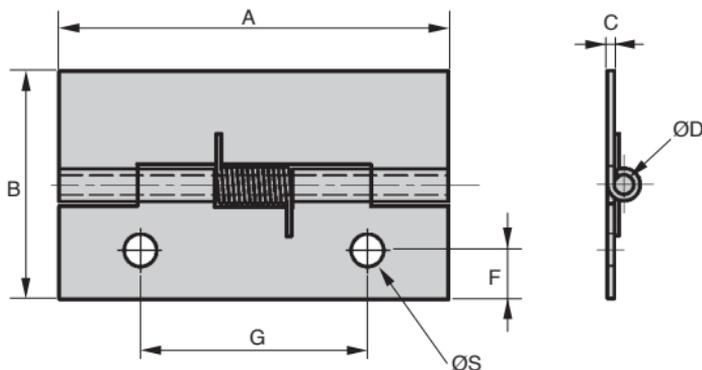
M(180°): 0.045 Nm

- Closing spring torque:

M(0°): 0.045 Nm

M(90°): 0.07 Nm

M(180°): 0.09 Nm



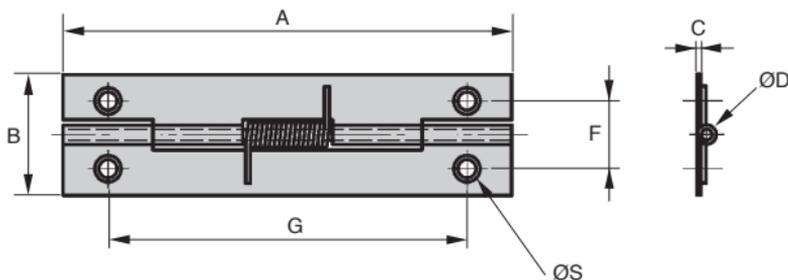
### DISCOUNTS

| Qty   | 1+   | 6+  | 20+  | 50+        |
|-------|------|-----|------|------------|
| Disc. | List | -5% | -10% | On request |

| Part number | A  | B  | C | ØD | F   | G  | ØS | Spring  | Weight (g) | Stock* | Price each 1 to 5 |
|-------------|----|----|---|----|-----|----|----|---------|------------|--------|-------------------|
| CHAR6035    | 60 | 35 | 1 | 3  | 7,5 | 35 | 5  | Opening | 22         | ✓      | 17,89 €           |
| CHAR6035-F  | 60 | 35 | 1 | 3  | 7,5 | 35 | 5  | Closing | 22         | ✓      | 13,33 €           |

\*Depending on availability - Dimensions in mm

- Hinge with opening spring
- Sheet metal with rolled knot
- Materials:
  - CHAR hinges:** steel, spring :stainless steel
  - CHAR/SS hinges:** stainless steel 304: spring stainless steel
- Finish: natural
- Spring torque
  - M(0°): 0.12 Nm
  - M(90°): 0.09 Nm
  - M(180°): 0.06 Nm



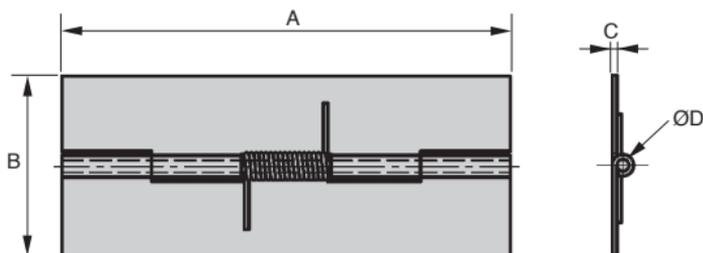
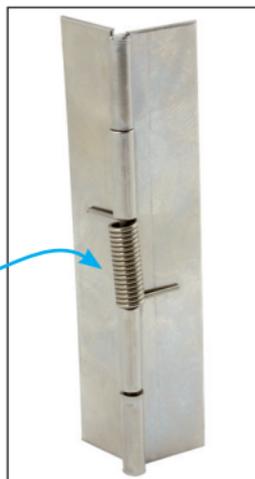
### DISCOUNTS

|            |     |      |            |     |
|------------|-----|------|------------|-----|
| Qty        | 1+  | 6+   | 20+        | 50+ |
| Disc. List | -5% | -10% | On request |     |

| Part number            | A  | B  | C   | ØD  | F    | G  | ØS | Spring  | Weight (g) | Price each |
|------------------------|----|----|-----|-----|------|----|----|---------|------------|------------|
| <b>Steel</b>           |    |    |     |     |      |    |    |         |            |            |
| CHAR7520               | 75 | 20 | 0,8 | 1,8 | 11,2 | 60 | 2  | Opening | 11,5       | 9,45 €     |
| <b>Stainless steel</b> |    |    |     |     |      |    |    |         |            |            |
| CHAR7520/SS            | 75 | 20 | 0,8 | 1,8 | 11,2 | 60 | 2  | Opening | 11,5       | 13,09 €    |

\*Depending on availability - Dimensions in mm

- Hinge with opening spring
- Sheet metal with rolled knot
- Materials:
  - CHAR hinges:** steel, stainless steel spring
  - CHAR/SS hinges:** stainless steel 304, stainless steel spring
- Finish: natural
- Spring torque
  - M(0°): 0.12 Nm
  - M(90°): 0.095 Nm
  - M(180°): 0.07 Nm



### DISCOUNTS

| Qty   | 1+   | 6+  | 20+  | 50+        |
|-------|------|-----|------|------------|
| Disc. | List | -5% | -10% | On request |

| Part number            | A  | B  | C   | ØD | Spring  | Weight (g) | Stock* | Price each 1 to 5 |
|------------------------|----|----|-----|----|---------|------------|--------|-------------------|
| <b>Steel</b>           |    |    |     |    |         |            |        |                   |
| CHAR7530               | 75 | 30 | 0,8 | 2  | Opening | 17         | -      | 14,36 €           |
| <b>Stainless steel</b> |    |    |     |    |         |            |        |                   |
| CHAR7530/SS            | 75 | 30 | 0,8 | 2  | Opening | 17         | ✓      | 26,20 €           |

\*Depending on availability - Dimensions in mm

**- Hinge with opening or closing spring**

- Sheet metal with rolled knot

- Materials:

**CHAR hinges:** steel, spring :stainless steel

**CHAR/SS:** Hinges: stainless steel 304 ,

spring : stainless steel

- Finish: natural

- Opening spring torque:

$M(0^\circ) : 0.9 \text{ Nm}$

$M(90^\circ) : 0.86 \text{ Nm}$

$M(180^\circ) : 0.6 \text{ Nm}$

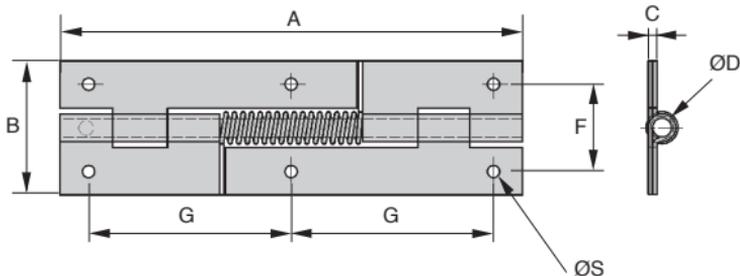
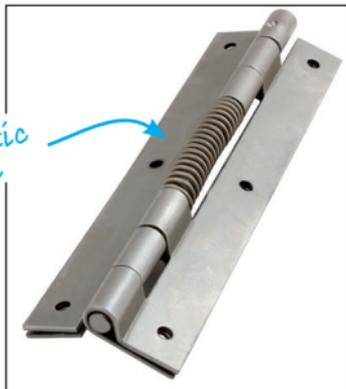
- Closing spring torque:

$M(0^\circ) : 0.6 \text{ Nm}$

$M(90^\circ) : 0.86 \text{ Nm}$

$M(180^\circ) : 0.9 \text{ Nm}$

Automatic return



### DISCOUNTS

|            |     |      |            |     |
|------------|-----|------|------------|-----|
| Qty        | 1+  | 6+   | 20+        | 50+ |
| Disc. List | -5% | -10% | On request |     |

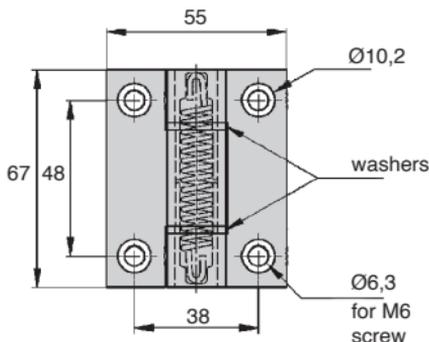
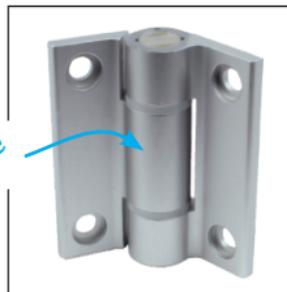
| Part number            | A   | B  | C | ØD  | F  | G  | ØS  | Spring  | Weight (g) | Price each |         |
|------------------------|-----|----|---|-----|----|----|-----|---------|------------|------------|---------|
|                        |     |    |   |     |    |    |     |         |            | Stock*     | 1 to 5  |
| <b>Steel</b>           |     |    |   |     |    |    |     |         |            |            |         |
| CHAR16046              | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Opening | 208        | ✓          | 36,98 € |
| CHAR16046-F            | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Closing | 208        | ✓          | 28,22 € |
| <b>Stainless steel</b> |     |    |   |     |    |    |     |         |            |            |         |
| CHAR16046/SS           | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Opening | 208        | ✓          | 33,26 € |

\*Depending on availability - Dimensions in mm

### - Hinge with concealed mechanism

- Automatic opening or closing of a door or panel
- Resists humidity
- Elegant design
- Low play
- Max opening angle 180°
- Working temp range: -20° to 80 °C
- Fixed using DIN912 screws (not supplied)
- Materials:
  - Black or natural finish aluminium
  - Centre: PA6.6 polyamide
  - Washer: POM
  - Spring: steel
- 0.35 Nm version is guaranteed for 30,000 operations
- 1.30 Nm version is guaranteed for 10,000 operations

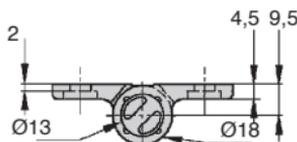
Automatic return



### Applications

- Opening doors or covers
- Industrial machines
- Metallic furniture
- Medical equipment

Available in black



### DISCOUNTS

| Qty   | 1+   | 6+  | 20+  | 50+        |
|-------|------|-----|------|------------|
| Disc. | List | -5% | -10% | On request |

| Part number     | Torque (Nm) |        |         | Spring  | Colour  | Weight (g) | Stock* | Price each 1 to 5 |
|-----------------|-------------|--------|---------|---------|---------|------------|--------|-------------------|
|                 | at 0°       | at 90° | at 180° |         |         |            |        |                   |
| CHAR6755-L-AG   | 0,35        | 0,24   | 0,12    | opening | natural | 110        | ✓      | 29,33 €           |
| CHAR6755-L-AN   | 0,35        | 0,24   | 0,12    | opening | black   | 110        | -      | 29,33 €           |
| CHAR6755-H-AG   | 1,3         | 1,1    | 0,9     | opening | natural | 110        | ✓      | 31,88 €           |
| CHAR6755-H-AN   | 1,3         | 1,1    | 0,9     | opening | black   | 110        | 4      | 31,88 €           |
| CHAR6755-H-AG-F | 1,3         | 1,1    | 0,9     | closing | natural | 110        | ✓      | 37,36 €           |
| CHAR6755-H-AN-F | 1,3         | 1,1    | 0,9     | closing | black   | 110        | -      | 37,36 €           |

\*Depending on availability - Dimensions in mm

Very easy to install

CHARCAV

- Spring-loaded hinges with stopper to lock the hinges in the open position for easy assembly

- 270° opening angle

- Material

304 stainless steel, stainless steel spring

- Spring torque

Opening spring:

M(0°): 1.6 Nm

M(90°): 1.2 Nm

M(180°): 0.84 Nm

Closing spring:

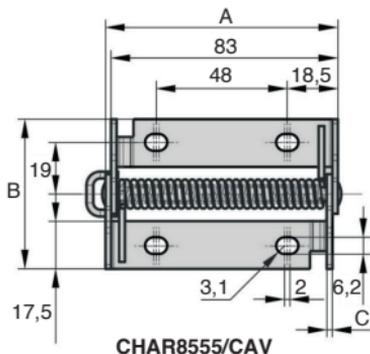
M(0°): 0.75 Nm

M(90°): 1.2 Nm

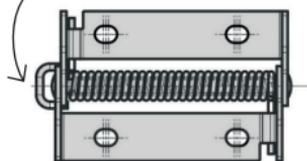
M(180°): 1.65 Nm

## Info

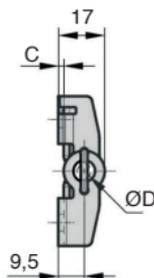
- Spring hinge opens or closes delivered flat



Remove stopper after assembly



CHAR8555-F/CAV



## DISCOUNTS

|       |      |     |      |            |
|-------|------|-----|------|------------|
| Qty   | 1+   | 6+  | 20+  | 50+        |
| Disc. | List | -5% | -10% | On request |

| Part number    | A  | B  | C | ØD | Type    | Weight (g) | Stock* | Price each 1 to 5 |
|----------------|----|----|---|----|---------|------------|--------|-------------------|
| CHAR8555/CAV   | 85 | 55 | 2 | 5  | opening | 107        | ✓      | 23,80 €           |
| CHAR8555-F/CAV | 85 | 55 | 2 | 5  | closing | 107        | ✓      | 23,80 €           |

\* Depending on availability - Dimensions in mm