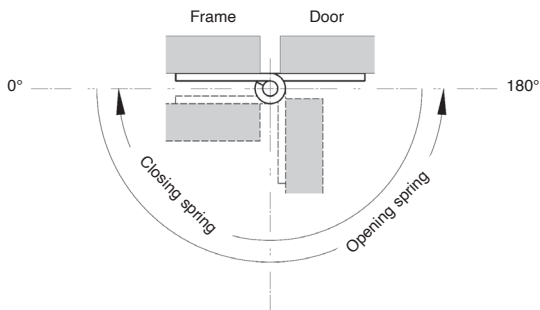


# Spring hinges

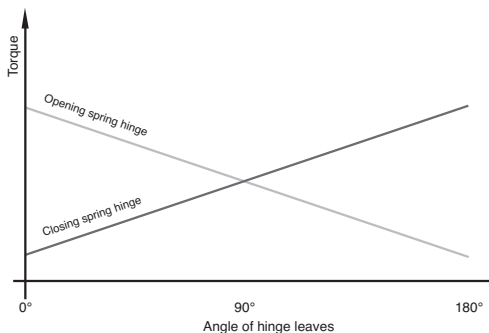
CHAR

Information

**The way a spring hinge opens depends on the type of spring**



**Spring hinge torque depends on the angle**



*M*: hinge torque at various positions

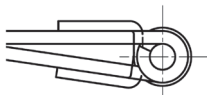
$M(0^\circ)$ : torque when hinge leaves are parallel

$M(90^\circ)$ : torque when leaves are at  $90^\circ$

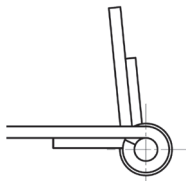
$M(180^\circ)$ : torque when leaves are at  $180^\circ$

### Spring hinges are delivered as shown

When delivered, hinges will be in the following position:

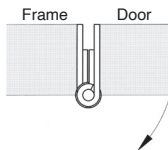


Closing spring hinge

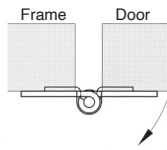


Opening spring hinge

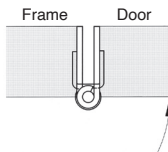
### Mounting and opening direction



Opening spring hinge

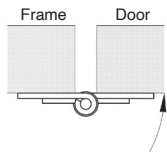


Closing spring hinge



Closing spring hinge

Concealed mounting



Opening spring hinge

Surface mounting

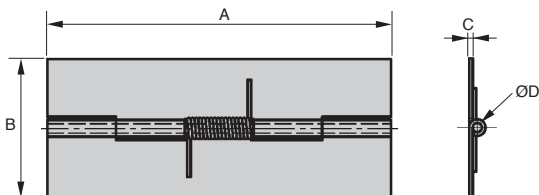
The arrow indicates the direction of rotation of the hinge due to the effect of the spring

## CHAR

## Automatic return

- 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

Available  
in steel or  
stainless  
steel



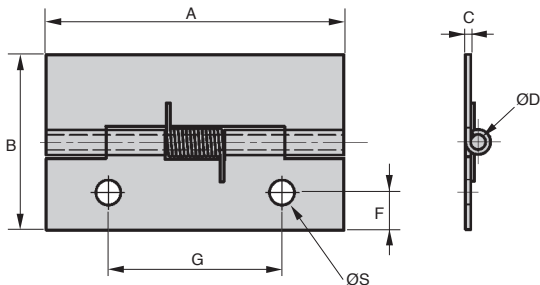
### DISCOUNTS

| 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         | -      | 12,95 €           |
| <b>Stainless steel</b> |    |    |     |    |         |            |        |                   |
| CHAR7530/SS            | 75 | 30 | 0,8 | 2  | Opening | 17         | ✓      | 23,13 €           |

\*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:
  - $M(0^\circ)$ : 0.09 Nm
  - $M(90^\circ)$ : 0.07 Nm
  - $M(180^\circ)$ : 0.045 Nm
- Closing spring torque:
  - $M(0^\circ)$ : 0.045 Nm
  - $M(90^\circ)$ : 0.07 Nm
  - $M(180^\circ)$ : 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         | ✓      | 17,54 €           |
| CHAR6035-F  | 60 | 35 | 1 | 3  | 7,5 | 35 | 5  | Closing | 22         | -      | 13,07 €           |

\*Depending on availability - Dimensions in mm

## CHAR

## Automatic return

**- 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

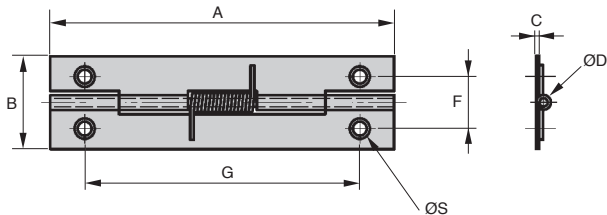
- Spring torque

M(0°): 0.12 Nm

M(90°): 0.09 Nm

M(180°): 0.06 Nm

Available  
in steel or  
stainless  
steel



### 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>           |    |    |     |     |      |    |    |         |            |            |         |
| CHAR7520               | 75 | 20 | 0,8 | 1,8 | 11,2 | 60 | 2  | Opening | 11,5       | ✓          | 9,26 €  |
| <b>Stainless steel</b> |    |    |     |     |      |    |    |         |            |            |         |
| CHAR7520/SS            | 75 | 20 | 0,8 | 1,8 | 11,2 | 60 | 2  | Opening | 11,5       | ✓          | 12,83 € |

\*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°) : 0.9 Nm

M(90°) : 0.86 Nm

M(180°) : 0.6 Nm

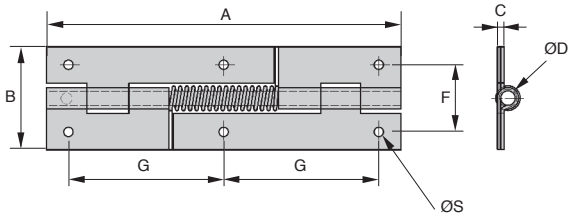
- Closing spring torque:

M(0°) : 0.6 Nm

M(90°) : 0.86 Nm

M(180°) : 0.9 Nm

Available  
in steel or  
stainless  
steel



### 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>           |     |    |   |     |    |    |     |         |            |            |
| CHAR16046              | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Opening | 208        | 27,66 €    |
| CHAR16046-F            | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Closing | 208        | 27,66 €    |
| <b>Stainless steel</b> |     |    |   |     |    |    |     |         |            |            |
| CHAR16046/SS           | 160 | 46 | 3 | 6,5 | 30 | 70 | 4,2 | Opening | 208        | 32,60 €    |

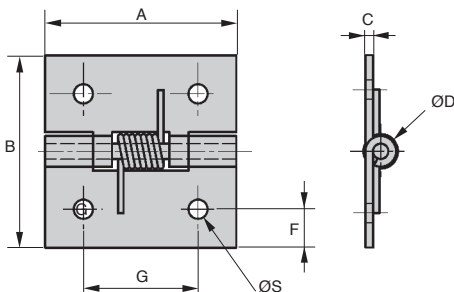
\*Depending on availability - Dimensions in mm

## CHAR

## Automatic return

- 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

Available  
in steel or  
stainless  
steel



### 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>           |    |    |   |    |    |    |    |         |            |            |
| CHAR5050/Z             | 50 | 50 | 2 | 4  | 9  | 30 | 5  | Opening | 50         | ✓ 10,31 €  |
| CHAR5050-F/Z           | 50 | 50 | 2 | 4  | 9  | 30 | 5  | Closing | 50         | ✓ 10,79 €  |
| <b>Stainless steel</b> |    |    |   |    |    |    |    |         |            |            |
| CHAR5050/SS            | 50 | 50 | 2 | 4  | 10 | 30 | 5  | Opening | 50         | ✓ 16,11 €  |
| CHAR5050-F/SS          | 50 | 50 | 2 | 4  | 10 | 30 | 5  | Closing | 50         | ✓ 18,53 €  |

\*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

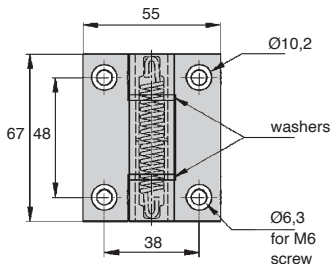
Washer: POM

Spring: steel

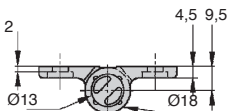
- 0.35 Nm version is guaranteed for 30,000 operations
- 1.30 Nm version is guaranteed for 10,000 operations

### 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        | ✓      | 28,75 €           |
| CHAR6755-L-AN   | 0,35        | 0,24   | 0,12    | opening | black   | 110        | ✓      | 28,75 €           |
| CHAR6755-H-AG   | 1,3         | 1,1    | 0,9     | opening | natural | 110        | ✓      | 31,25 €           |
| CHAR6755-H-AN   | 1,3         | 1,1    | 0,9     | opening | black   | 110        | -      | 31,25 €           |
| CHAR6755-H-AG-F | 1,3         | 1,1    | 0,9     | closing | natural | 110        | ✓      | 36,62 €           |
| CHAR6755-H-AN-F | 1,3         | 1,1    | 0,9     | closing | black   | 110        | -      | 36,62 €           |

\*Depending on availability - Dimensions in mm



# Stainless steel compact spring hinge

## CHARCAV

## Very easy to install

- 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

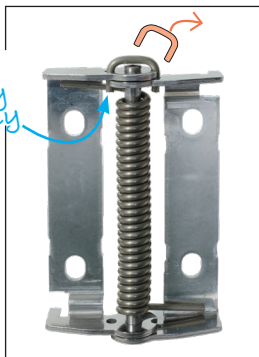
Closing spring:

M(0°): 0.75 Nm

M(90°): 1.2 Nm

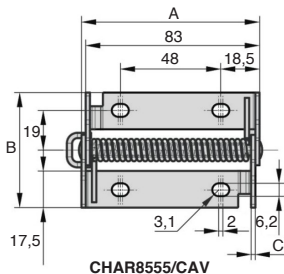
M(180°): 1.65 Nm

stopper for easy assembly

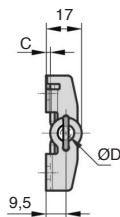
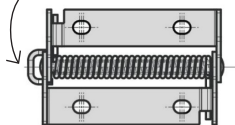


### Info

- Spring hinge opens or closes delivered flat



Remove stopper after assembly



### 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        | -      | 23,33 €           |
| CHAR8555-F/CAV | 85 | 55 | 2 | 5  | closing | 107        | -      | 23,33 €           |

\*Depending on availability - Dimensions in mm

## Our other products



UCFL\_SS

Stainless steel flanged bearing, Stainless steel



PTGT

Tensioner pulley, For V belts



F7-E

Multifunction display, With external sensor



BDM

Pin for magnetic bush, Fast and light magnetic locking



PM4

Worm and wheel set, Non hardened steel



PR882

Idle sprocket for slat top chain, Range 882



RTE

Rotex®, jaw coupling, Aluminium



PTBss

Threaded eye hook stainless steel, Stainless steel



HSE-HSB

Hexagonal spacer, Brass



MHXred

Reducing sleeve male/female,



LACT\_SS

Adjustable Stainless steel cam lever, Male



PITAss

Locking bolt, with T handle

## Complementary products



CHAR16046

Spring hinge, screwed



CHAR5050\_Z

Spring hinge, screwed



CHARcav

Spring hinge, to install