



SYSTEM COMPONENTS

GEIGER
ANTRIEBSTECHNIK

GEIGER plastic pressure piece

The latest generation of GEIGER aluminium cranks are equipped with a plastic pressure piece. The plastic bearing of the crank elements prevents material abrasion at the bearing points. Damage that might be caused to wall-paper or curtains is thus prevented. At the same time, the pressure piece ensures easy operation without lubricant as well as a precise locking.



Universals

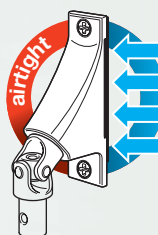
GEIGER offers a very wide range of universals in all conceivable designs and sizes. Basically the angles - 45° or 90° - and the -universal joint sizes make the difference. We offer as standard universals with Ø16 mm made of steel (up to 3 Nm) and Ø 18 mm made of aluminium (up to 5 Nm). The plates are made of high strength plastic or die-cast zinc.

The plastic plates are available in 5 standard colours (white, grey, brown, beige and black). The die-cast zinc plates are either nickel-plated or powder-coated. Other colours or surfaces are available on request.



Airtight universals

The GEIGER airsealed universals save energy and increase comfort. Many of the universal plates are available with a specific cellular rubber seal. These airsealed universals prevent the inside/outside air circulation - both at the plate and at the bearing point. In addition to energy saving advantages, the gear life time is also increased. The risk of condensation on the gear unit is reduced to a minimum.





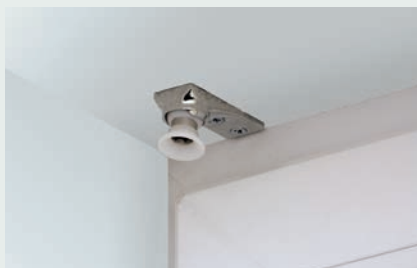
SKS - Detachable crank handle system for Venetian blinds and rolling shutters

The GEIGER detachable crank handle system has been specially designed for hard-to-reach places – e.g. because the crank would prevent the window from being opened – but also for optical aspects or personal reasons.

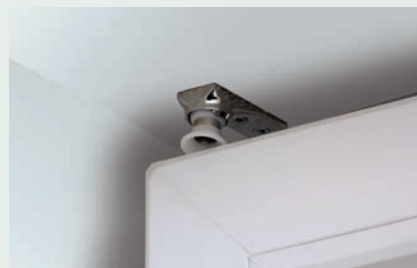
Due to the installation situation or depending on the rolling shutter or Venetian blind system used in that case, it might happen that the universal must be mounted where the crank cannot be permanently attached. In order to meet these specific requirements, GEIGER comes up with a very special system.



After operating the rolling shutter or Venetian blind, remove the crank handle.



Only the universal and the funnel are still visible.



Their low height does not affect the use of the window

Components suitable for detachable crank handle systems (SKS)

Rods and spherical bearing plates which are suitable for the detachable crank handle system or can be combined with it, are marked on the following pages with the icon „SKS“.



Available surface designs

Many of our system components are available in different high-quality surface designs. Below please find the available surfaces for our metal parts:

Bright-finish

Smooth surface, without galvanic finishing, the parts are deburred by vibratory grinding and sharp edges are rounded

Bright galvanized and chromated

Without mechanical processing *)

Galvanized and black-chromated

Without mechanical processing *)

Bright nickel-plated

With pre-copperplating, without mechanical processing *)

Anodized

Natural anodized E6/EV1

Dark bronze anodized

Black anodized

Powder-coated

In different RAL colours

Wet painted

In different RAL colours

Protection against corrosion

Good protection against corrosion depends on the surface quality. Anodized aluminium parts or galvanized steel parts guarantee a good protection against corrosion. Bright nickel-plated steel parts are not suitable for outdoor installation.

Important information

Plaster and different paints give off aggressive vapours as they harden. Therefore galvanized and anodized parts should only be mounted after the interior construction work has been completed, since vapours may otherwise corrode the surface.

*) Without surface treatment prior to the galvanic treatment, however, deburred by vibratory grinding.

The layer thickness of the galvanically treated surfaces is continuously checked as to its strength and adhesiveness.

Bright nickel-plated surfaces represent an optical coating but do not provide any lasting protection against corrosion.

Galvanized surfaces offer a much better protection against corrosion. Corrosion damages are excluded when using aluminium universals.

When selecting the suitable universals and universal joints, it is essential to consider the location, The prevailing climate (indoor climate), the intended use and the related load profiles. We would be pleased to advise you on the optimized selection of appropriate materials and coatings.

Colour specifications and printing

The colours shown in the catalogue are indicative only. They can slightly differ from the RAL specifications depending on the surface structure or the base materials being used. The colour fields in the charts may vary from the actual colours due to printing technical reasons.

Drawings dimensions

The technical drawings shown in this catalogue are related to one specific product of a series. The drawing dimensions may vary from one item to the other.

We will be happy to provide you with the exact dimensions and drawings for the article you selected.

Subject to technical modifications and errors

Overview system components

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CRANK HANDLES

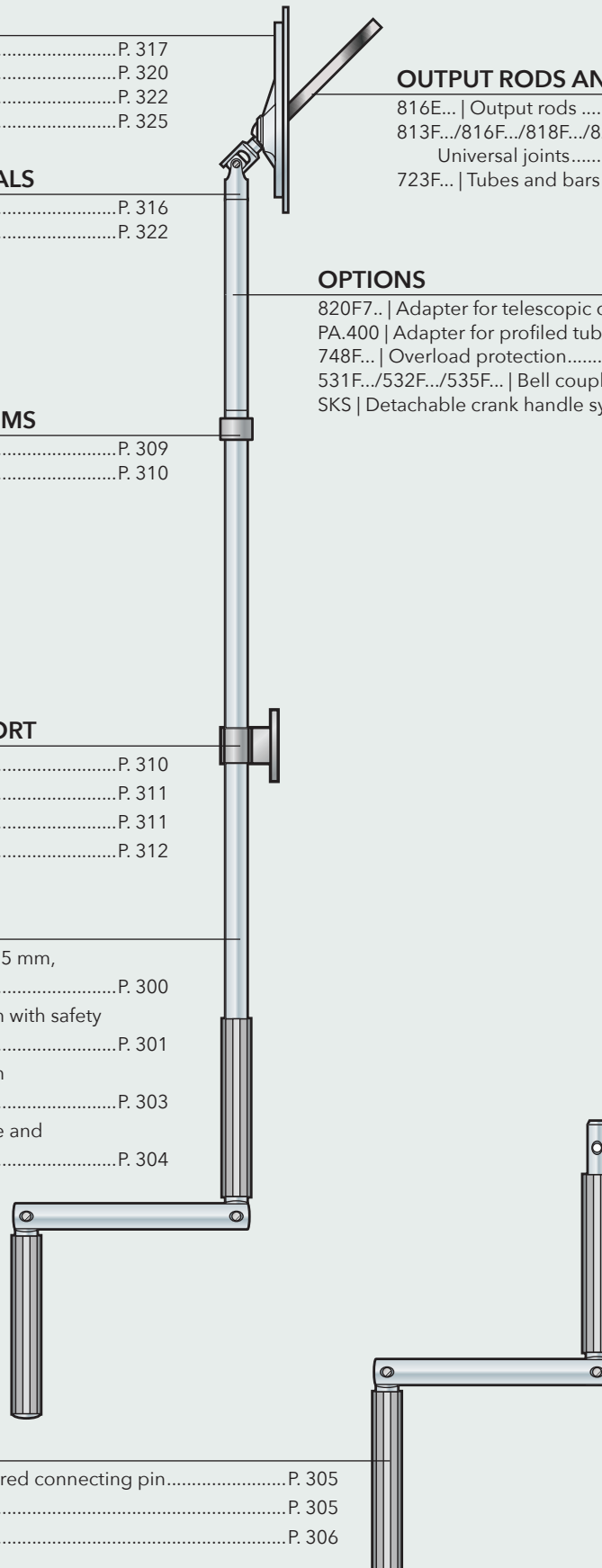
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P... | Aluminium cranks with profile tube Ø 15,5 mm, covered connecting pin and safety clip

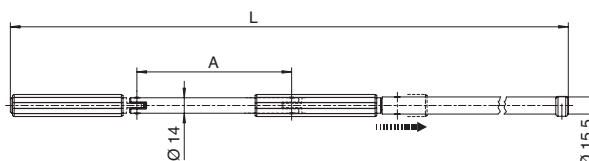


Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- Crank parts and tube made of corrosion-proof aluminium
- No torsion of the crank; not even with long crank handles
- It can be attached easily and quick to the universal joint (no tools needed)
- Middle section Ø 14 mm, tube Ø 15,5 mm
- Further lengths, working radii and middle section Ø on request
- Available colours (powder-coated) RAL 7035, RAL 9016, RAL 8019 or natural colour anodized
- Further colours and surfaces on request

Note

- Universal with profiled trunnion required



Middle section and tube powder-coated, grey grips and safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
P011000	1000 mm	140 mm	☐ RAL 7035
P011200	1200 mm	140 mm	☐ RAL 7035
P011300	1300 mm	140 mm	☐ RAL 7035
P011400	1400 mm	140 mm	☐ RAL 7035
P011500	1500 mm	140 mm	☐ RAL 7035
P011600	1600 mm	140 mm	☐ RAL 7035
P011700	1700 mm	140 mm	☐ RAL 7035
P011800	1800 mm	140 mm	☐ RAL 7035
P011900	1900 mm	140 mm	☐ RAL 7035
P012000	2000 mm	140 mm	☐ RAL 7035

Middle section and tube powder-coated, white grips and safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
P111000	1000 mm	140 mm	☐ RAL 9016
P111100	1100 mm	140 mm	☐ RAL 9016
P111200	1200 mm	140 mm	☐ RAL 9016
P111300	1300 mm	140 mm	☐ RAL 9016
P111400	1400 mm	140 mm	☐ RAL 9016
P111500	1500 mm	140 mm	☐ RAL 9016
P111600	1600 mm	140 mm	☐ RAL 9016
P111700	1700 mm	140 mm	☐ RAL 9016
P111800	1800 mm	140 mm	☐ RAL 9016
P111900	1900 mm	140 mm	☐ RAL 9016
P112000	2000 mm	140 mm	☐ RAL 9016

Middle section and tube powder-coated, brown grips and safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
P211000	1000 mm	140 mm	☐ RAL 8019
P211100	1100 mm	140 mm	☐ RAL 8019
P211200	1200 mm	140 mm	☐ RAL 8019
P211300	1300 mm	140 mm	☐ RAL 8019
P211400	1400 mm	140 mm	☐ RAL 8019
P211500	1500 mm	140 mm	☐ RAL 8019
P211600	1600 mm	140 mm	☐ RAL 8019
P211800	1800 mm	140 mm	☐ RAL 8019
P211900	1900 mm	140 mm	☐ RAL 8019
P212000	2000 mm	140 mm	☐ RAL 8019

Middle section and tube anodized, grey grips and safety clip

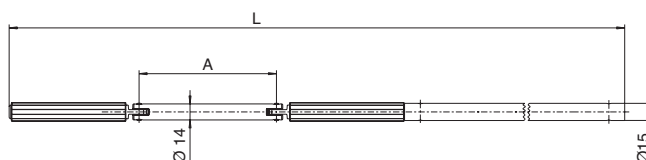
Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
P611000	1000 mm	140 mm	☐ Natural colour anodized
P611100	1100 mm	140 mm	☐ Natural colour anodized
P611200	1200 mm	140 mm	☐ Natural colour anodized
P611300	1300 mm	140 mm	☐ Natural colour anodized
P611400	1400 mm	140 mm	☐ Natural colour anodized
P611500	1500 mm	140 mm	☐ Natural colour anodized
P611600	1600 mm	140 mm	☐ Natural colour anodized
P611700	1700 mm	140 mm	☐ Natural colour anodized
P611800	1800 mm	140 mm	☐ Natural colour anodized
P611900	1900 mm	140 mm	☐ Natural colour anodized
P612000	2000 mm	140 mm	☐ Natural colour anodized

Venetian blinds

G... | Aluminium cranks with tube 15 x 1,5 mm with safety clip

Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- Crank parts and tube made of corrosion-proof aluminium
- Middle section Ø 14 mm, tube Ø 15 mm, wall thickness 1,5 mm
- With mounted safety clip for tool-free mounting on spherical plain bearings
- Further lengths, working radii and middle section Ø on request
- Available colours (powder-coated) RAL 9016 or natural colour anodized
- Further colours and surfaces on request



Rolling shutters

Middle section and tube anodized, grey grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
G011000SC	1000 mm	120 mm	☐ Natural colour anodized
G011100SC	1100 mm	120 mm	☐ Natural colour anodized
G011200SC	1200 mm	120 mm	☐ Natural colour anodized
G011300SC	1300 mm	120 mm	☐ Natural colour anodized
G011400SC	1400 mm	120 mm	☐ Natural colour anodized
G011500SC	1500 mm	120 mm	☐ Natural colour anodized
G011600SC	1600 mm	120 mm	☐ Natural colour anodized
G011700SC	1700 mm	120 mm	☐ Natural colour anodized
G011800SC	1800 mm	120 mm	☐ Natural colour anodized
G011900SC	1900 mm	120 mm	☐ Natural colour anodized

Middle section natural colour anodized, tube powder-coated, white grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Tube)
G111000SC	1000 mm	120 mm	☐ RAL 9016
G111100SC	1100 mm	120 mm	☐ RAL 9016
G111200SC	1200 mm	120 mm	☐ RAL 9016
G111300SC	1300 mm	120 mm	☐ RAL 9016
G111400SC	1400 mm	120 mm	☐ RAL 9016
G111500SC	1500 mm	120 mm	☐ RAL 9016
G111600SC	1600 mm	120 mm	☐ RAL 9016
G111700SC	1700 mm	120 mm	☐ RAL 9016
G111800SC	1800 mm	120 mm	☐ RAL 9016
G111900SC	1900 mm	120 mm	☐ RAL 9016
G112000SC	2000 mm	120 mm	☐ RAL 9016

Textile sun protection

System components



Middle section and tube anodized, brown grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
G211000SC	1000 mm	120 mm	 Dark bronze anodized
G211100SC	1100 mm	120 mm	 Dark bronze anodized
G211200SC	1200 mm	120 mm	 Dark bronze anodized
G211500SC	1500 mm	120 mm	 Dark bronze anodized
G211800SC	1800 mm	120 mm	 Dark bronze anodized

Middle section and tube anodized, grey grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
GB31000SC	1000 mm	160 mm	 Natural colour anodized
GB31200SC	1200 mm	160 mm	 Natural colour anodized
GB31300SC	1300 mm	160 mm	 Natural colour anodized
GB31400SC	1400 mm	160 mm	 Natural colour anodized
GB31500SC	1500 mm	160 mm	 Natural colour anodized
GB31600SC	1600 mm	160 mm	 Natural colour anodized
GB31800SC	1800 mm	160 mm	 Natural colour anodized

Middle section natural colour anodized, tube powder-coated, white grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Tube)
GB211000SC	1000 mm	160 mm	 RAL 9016
GB211200SC	1200 mm	160 mm	 RAL 9016
GB211300SC	1300 mm	160 mm	 RAL 9016
GB211400SC	1400 mm	160 mm	 RAL 9016
GB211500SC	1500 mm	160 mm	 RAL 9016
GB211600SC	1600 mm	160 mm	 RAL 9016
GB211800SC	1800 mm	160 mm	 RAL 9016

Middle section and tube anodized, brown grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
GB41000SC	1000 mm	160 mm	 Dark bronze anodized
GB41200SC	1200 mm	160 mm	 Dark bronze anodized
GB41400SC	1400 mm	160 mm	 Dark bronze anodized
GB41800SC	1800 mm	160 mm	 Dark bronze anodized

Alternative: aluminium-crank handle with aluminium tube 15 x 1,5 mm

Working radius for crank Ø 14 mm	120 mm, 140 mm, 160 mm, 180 mm
Working radius for crank Ø 16 mm	140 mm, 180 mm
Rod length	On request
Colour: grips	White, grey, brown, other on request
Colour: tube	RAL 9016, natural colour anodized, dark brown anod., other on request

Options

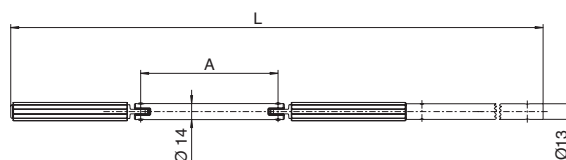
On request available with mounted	Universal
	Bell coupling
	Crank holder
Colour: tube	Special colours on request
Colour: middle section	With coated or colour-anodized surface

G... | Aluminium cranks with tube 13 x 1,5 mm with mounted safety clip



Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- Crank parts and tube made of corrosion-proof aluminium
- Middle section Ø 14 mm, tube Ø 13 mm, wall thickness 1,5 mm
- With mounted safety clip for tool-free mounting on spherical plain bearings
- Further lengths, working radii and middle section Ø on request
- Available colours (powder-coated) RAL 9016, natural colour and dark brown anodized
- Further colours and surfaces on request



Middle section and tube anodized, grey grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
G001000SC	1000 mm	120 mm	☐ Natural colour anodized
G001200SC	1200 mm	120 mm	☐ Natural colour anodized
G001300SC	1300 mm	120 mm	☐ Natural colour anodized
G001400SC	1400 mm	120 mm	☐ Natural colour anodized
G001500SC	1500 mm	120 mm	☐ Natural colour anodized
G001600SC	1600 mm	120 mm	☐ Natural colour anodized
G001700SC	1700 mm	120 mm	☐ Natural colour anodized
G002000SC	2000 mm	120 mm	☐ Natural colour anodized

Middle section natural colour anodized, tube powder-coated, white grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Tube)
G121000SC	1000 mm	120 mm	☐ RAL 9016
G121200SC	1200 mm	120 mm	☐ RAL 9016
G121300SC	1300 mm	120 mm	☐ RAL 9016

Middle section and tube anodized, grey grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
GB11000SC	1000 mm	160 mm	☐ Natural colour anodized
GB11200SC	1200 mm	160 mm	☐ Natural colour anodized
GB11300SC	1300 mm	160 mm	☐ Natural colour anodized
GB11400SC	1400 mm	160 mm	☐ Natural colour anodized
GB11500SC	1500 mm	160 mm	☐ Natural colour anodized
GB11800SC	1800 mm	160 mm	☐ Natural colour anodized
GB12000SC	2000 mm	160 mm	☐ Natural colour anodized

Middle section natural colour anodized, tube powder-coated, white grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Tube)
GB81000SC	1000 mm	160 mm	☐ RAL 9016
GB81100SC	1100 mm	160 mm	☐ RAL 9016
GB81200SC	1200 mm	160 mm	☐ RAL 9016
GB81300SC	1300 mm	160 mm	☐ RAL 9016
GB81400SC	1400 mm	160 mm	☐ RAL 9016
GB81500SC	1500 mm	160 mm	☐ RAL 9016
GB81600SC	1600 mm	160 mm	☐ RAL 9016
GB81800SC	1800 mm	160 mm	☐ RAL 9016

Middle section and tube anodized, black grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Middle section and tube)
GB181200SC	1200 mm	160 mm	■ Black anodized
GB181300SC	1300 mm	160 mm	■ Black anodized
GB181500SC	1500 mm	160 mm	■ Black anodized
GB182000SC	2000 mm	160 mm	■ Black anodized

Alternative: aluminium-crank handle with aluminium tube 13 x 1,5 mm

Working radius for crank Ø 14 mm	120 mm, 140 mm, 160 mm
Rod length	On request
Colour: grips	White, grey, brown, black, other on request
Colour: tube	RAL 9016, natural colour anodized, dark brown anodized, black anodized

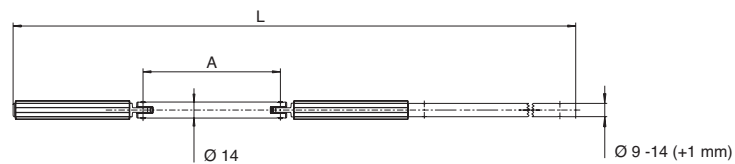
Options

	Universal
On request available with mounted	Bell coupling Crank holder
Colour: tube	Special colours on request
Colour: middle section	With coated or colour-anodized surface

G... | Aluminium crank handles with steel tube and mounted safety clip

Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- The parts of the crank are made of corrosion-proof aluminium
- Middle section Ø 12 mm, tube Ø 12 mm plus 1 mm plastic casing, wall thickness 1,0 mm
- With mounted safety clip for tool-free mounting on spherical plain bearings
- Further lengths, working radii, middle section and tube Ø on request
- Further colours and surfaces on request



Middle section (Ø 14 mm) natural colour anodized, steel tube 12 x 1,0 mm, plastic coated, white grips and mounted safety clip

Part Nr.	Length [L]	Working radius [A]	Colour (Tube)
GB21200SC	1200 mm	160 mm	□ RAL 9016
GB21300SC	1300 mm	160 mm	□ RAL 9016
GB21400SC	1400 mm	160 mm	□ RAL 9016
GB21500SC	1500 mm	160 mm	□ RAL 9016
GB21600SC	1600 mm	160 mm	□ RAL 9016
GB21800SC	1800 mm	160 mm	□ RAL 9016

Alternative: aluminium-crank handle with steel tube

Working radius for crank Ø 14 mm	120 mm, 160 mm
Rod length	On request
Colour: grips	White, grey, brown, black
Colour: tube	RAL 9016, other on request

Options

	Universal
On request available with mounted	Bell coupling Crank holder
Colour: tube	Special colours on request
Colour: middle section	With coated or colour-anodized surface



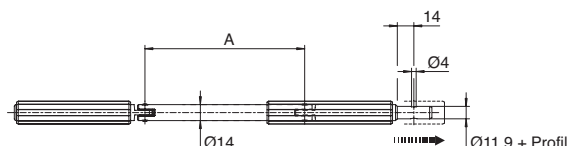
510F4.. | Aluminium crank handles with covered connecting pin

Various working radii and connecting trunnions



Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- The parts of the crank are made of corrosion-proof aluminium
- The upper grip covers the connection between rod and crank
- Ergonomic polygonal grips made of high-quality shock-resistant and environmentally friendly compatible plastic
- Further working radii, middle sections and connecting trunnions Ø on request
- Further surfaces, colours and colour combinations on request
- Tool to remove the grip sleeve 510F989



Aluminium crank handle with trunnion Ø 11,9 mm and covered connection pin

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F401	140 mm	Aluminium/14 mm	■ Natural colour anodized	■ Grey
510F402	140 mm	Aluminium/14 mm	■ Natural colour anodized	□ White
510F403	140 mm	Aluminium/14 mm	■ Dark bronze anodized	■ Brown
510F413	140 mm	Aluminium/14 mm	□ RAL 9016	□ White

Aluminium crank handle with profiled trunnion and covered connection pin

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F451	140 mm	Aluminium/14 mm	■ RAL 7035	■ Grey
510F452	140 mm	Aluminium/14 mm	□ RAL 9016	□ White
510F453	140 mm	Aluminium/14 mm	■ Dark bronze anodized	■ Brown
510F454	140 mm	Aluminium/14 mm	■ Natural colour anodized	■ Grey
510F456	140 mm	Aluminium/14 mm	■ RAL 9005	■ Black
510F652	160 mm	Aluminium/14 mm	□ RAL 9016	□ White
510F657	160 mm	Aluminium/14 mm	■ Dark bronze anodized	■ Brown

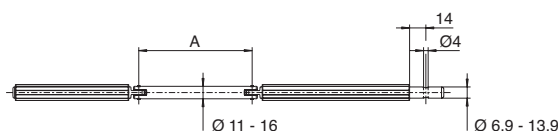
510F... | Aluminium crank handles

Various working radii and connecting trunnions



Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- The parts of the crank are made of corrosion-proof aluminium
- Ergonomic polygonal grips made of high-quality shock-resistant and environmentally friendly compatible plastic
- Further working radii, middle sections and connecting trunnions Ø on request
- Further surfaces, colours and colour combinations on request



Aluminium crank handle with trunnion Ø 9,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F101	120 mm	Aluminium/14 mm	■ Natural colour anodized	■ Grey
510F102	120 mm	Aluminium/14 mm	■ Black anodized	■ Black
510F105	120 mm	Aluminium/14 mm	■ Natural colour anodized	□ White
510F115	120 mm	Aluminium/14 mm	■ RAL 8019	■ Brown
510F152	120 mm	Aluminium/14 mm	■ Natural colour anodized	■ Black
510F299	120 mm	Aluminium/14 mm	□ RAL 9016	□ White
510F108	140 mm	Aluminium/14 mm	■ Natural colour anodized	■ Grey
510F156	140 mm	Aluminium/14 mm	■ Natural colour anodized	□ White
510F260	140 mm	Aluminium/14 mm	■ Natural colour anodized	■ Black
510F149	160 mm	Aluminium/14 mm	■ Natural colour anodized	■ Black

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F166	160 mm	Aluminium/14 mm	 Natural colour anodized	 White
510F167	160 mm	Aluminium/14 mm	 Dark bronze anodized	 Brown
510F175	160 mm	Aluminium/14 mm	 Natural colour anodized	 Grey
510F258	160 mm	Aluminium/14 mm	 RAL 9016	 White
510F298	160 mm	Aluminium/14 mm	 Black anodized	 Black
510F132	180 mm	Aluminium/16 mm	 Natural colour anodized	 Grey
510F139	180 mm	Aluminium/16 mm	 Natural colour anodized	 White

Aluminium crank handle with trunnion Ø 11,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F109	120 mm	Aluminium/14 mm	 Natural colour anodized	 White
510F110	120 mm	Aluminium/14 mm	 Natural colour anodized	 Grey
510F111	120 mm	Aluminium/14 mm	 Dark bronze anodized	 Brown
510F112	120 mm	Aluminium/14 mm	 Black anodized	 Black
510F104	140 mm	Aluminium/14 mm	 Natural colour anodized	 Grey
510F121	140 mm	Aluminium/16 mm	 Natural colour anodized	 Grey
510F122	140 mm	Aluminium/16 mm	 Dark bronze anodized	 Brown
510F148	140 mm	Aluminium/16 mm	 Natural colour anodized	 White
510F150	140 mm	Aluminium/14 mm	 Natural colour anodized	 White
510F161	140 mm	Aluminium/14 mm	 Dark bronze anodized	 Brown
510F314	140 mm	Aluminium/14 mm	 Black anodized	 Black
510F350	140 mm	Aluminium/14 mm	 RAL 9016	 White
510F157	160 mm	Aluminium/14 mm	 Natural colour anodized	 Grey
510F158	160 mm	Aluminium/14 mm	 Natural colour anodized	 White
510F162	160 mm	Aluminium/14 mm	 Dark bronze anodized	 Brown
510F304	160 mm	Aluminium/14 mm	 Black anodized	 Black
510F133	180 mm	Aluminium/16 mm	 Natural colour anodized	 Grey
510F151	180 mm	Aluminium/16 mm	 Natural colour anodized	 White
510F271	180 mm	Aluminium/16 mm	 Black anodized	 Black

Aluminium crank handle with trunnion Ø 12,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F124	140 mm	Aluminium/16 mm	 Natural colour anodized	 Grey
510F138	140 mm	Aluminium/16 mm	 Dark bronze anodized	 Brown
510F190	140 mm	Aluminium/16 mm	 Natural colour anodized	 White
510F131	180 mm	Aluminium/16 mm	 Natural colour anodized	 Grey

Aluminium crank handle with trunnion Ø 13,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle section)	Grips colour
510F120	140 mm	Aluminium/16 mm	 Natural colour anodized	 Grey
510F164	140 mm	Aluminium/16 mm	 Natural colour anodized	 White

510F989 | Unlocking device



Characteristics

- For aluminium crank handles with covered pin

Part Nr.	Description
510F989	Unlocking device

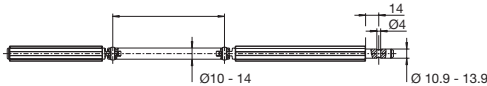
510F... | Steel crank handles

Steel crank handles, various working radii and connecting trunnions



Characteristics

- Plastic pressure piece allows abrasion-free and accurate crank operation
- Ergonomic polygonal grips made of high-quality shock-resistant and environmentally friendly compatible plastic
- Further working radii, middle sections and connecting trunnions Ø on request
- Further surfaces, colours and colour combinations on request



Steel crank handle with trunnion Ø 10,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle sect.)	Grips colour
510F482	140 mm	Steel/14 mm	Nickel-plated	Grey

Steel crank handle with trunnion Ø 11,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle sect.)	Grips colour
510B256	180 mm	Steel/14 mm	Nickel-plated	Grey

Steel crank handle with trunnion Ø 12,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle sect.)	Grips colour
510F248	140 mm	Steel/14 mm	Nickel-plated	Grey
510F259	140 mm	Steel/14 mm	Nickel-plated	White

Steel crank handle with trunnion Ø 13,9 mm

Part Nr.	Working radius [A]	Material/Ø	Colour (Middle sect.)	Grips colour
510B220	140 mm	Steel/14 mm	Nickel-plated	Grey
510B230	180 mm	Steel/14 mm	Nickel-plated	Grey

510F0.. | Connecting tubes



Characteristics

- Connecting tube out of aluminium or steel (length = 6000 mm)

Connecting tubes made of aluminium

Part Nr.	Outside-Ø	Inner-Ø	Surface	Packing unit
510F039	13 mm	10 mm	Dark bronze anodized	240 m
510F024	13 mm	10 mm	Natural colour anodized	240 m
510F032	13 mm	10 mm	RAL 9016	240 m
510F044	15 mm	12 mm	Dark bronze anodized	192 m
510F028	15 mm	12 mm	Natural colour anodized	192 m
510F043	15 mm	12 mm	Natural colour anodized	192 m
510F030	15 mm	12 mm	RAL 9016	192 m
510F052	15 mm	12 mm	RAL 9016	192 m
510F029	15 mm	12 mm	Black anodized	192 m
510F050	15,5 mm	Profiled tube	Natural colour anodized	180 m
510F046	15,5 mm	Profiled tube	RAL 7035	180 m
510F048	15,5 mm	Profiled tube	RAL 8019	180 m
510F049	15,5 mm	Profiled tube	RAL 9005	180 m
510F047	15,5 mm	Profiled tube	RAL 9016	180 m
510F055	15,5 mm	12 mm	RAL 9016	180 m
510F056	15,5 mm	12 mm	RAL 7035	180 m

Connecting tubes made of steel

Part Nr.	Outside-Ø	Inner-Ø	Surface	Packing unit
510F020	12 mm	10 mm	RAL 7035	240 m
510F083	12 mm	10 mm	RAL 9016	240 m
510F022	14 mm	12 mm	RAL 7035	192 m
510F082	14 mm	12 mm	RAL 9016	192 m
510F023	16 mm	14 mm	RAL 7035	192 m
510F019	9 mm	7 mm	RAL 7035	240 m

506N... | Spiral pin

Application: **To secure the tube connection**



Characteristics

- Made of stainless steel or steel with galvanized surface

Part Nr.	Material	Outside-Ø	Length	Surface
506N410-0	Stainless steel	4 mm	10 mm	☒ Bright finish
506N412-1	Steel	4 mm	12 mm	☒ Zinc-plated
506N413-0	Stainless steel	4 mm	13 mm	☒ Bright finish
506N413-1	Steel	4 mm	13 mm	☒ Zinc-plated
506N414-1	Steel	4 mm	14 mm	☒ Zinc-plated
506N415-0	Stainless steel	4 mm	15 mm	☒ Bright finish
506N415-1	Steel	4 mm	15 mm	☒ Zinc-plated
506N416-0	Stainless steel	4 mm	16 mm	☒ Bright finish
506N416-1	Steel	4 mm	16 mm	☒ Zinc-plated
506N417-1	Steel	4 mm	17 mm	☒ Zinc-plated
506N418-0	Stainless steel	4 mm	18 mm	☒ Bright finish
506N418-1	Steel	4 mm	18 mm	☒ Zinc-plated
506N420-0	Stainless steel	4 mm	20 mm	☒ Bright finish
506N420-1	Steel	4 mm	20 mm	☒ Zinc-plated
506N422-1	Steel	4 mm	22 mm	☒ Zinc-plated
506N424-0	Stainless steel	4 mm	24 mm	☒ Bright finish
506N424-1	Steel	4 mm	24 mm	☒ Zinc-plated
506N426	Steel	4 mm	26 mm	☒ Bright finish
506N430	Steel	4 mm	30 mm	☒ Bright finish
506N430-1	Steel	4 mm	30 mm	☒ Zinc-plated

510F9.. | Assembly set

Application: **for easy assembly of the crank handle with the universal**



Characteristics

- The crank handle can be attached and removed by hand without any tools needed
- Cylinder pin replaces the conventional spiral pin
- Composed of stainless steel cylinder pin (Ø 4 mm) and plastic safety sleeve (colours similar to RAL 7035, 9016 and 8019) to secure the pin axially

Part Nr.	Colour	Tube outer diameter
510F992	□ RAL 7035	13 mm
510F993	■ RAL 8019	13 mm
510F996	□ RAL 9016	13 mm
510F990	□ RAL 7035	15 mm
510F995	■ RAL 8019	15 mm
510F991	□ RAL 9016	15 mm
510F997	■ RAL 9005	15 mm

510E7.. | Safety clip

Application: **for easy assembly of the crank handle with the universal**



Characteristics

- Plastic safety clip with stainless pin
- The crank handle can be attached and removed by hand without any tools needed

For tubes with outer diameter 10 mm, pin diameter 2,5 mm

Part Nr.	Colour	Inner diameter
510E781	□ RAL 9016	9,8 mm
510E782	□ RAL 7035	9,8 mm

For tubes with outer diameter 12 and 13 mm, pin diameter 4 mm

Part Nr.	Colour	Inner diameter
510E751	□ RAL 9016	11,8 mm
510E752	□ RAL 7035	11,8 mm
510E753	■ RAL 8019	11,8 mm
510E754	■ RAL 9005	11,8 mm

For tubes with outer diameter 15 to 17 mm, pin diameter 4 mm

Part Nr.	Colour	Inner diameter
510E701	□ RAL 9016	14,5 mm
510E702	□ RAL 7035	14,5 mm
510E703	■ RAL 8019	14,5 mm
510E704	■ RAL 9005	14,5 mm

510K... | Safety clip

Application: **for easy assembly of the profile tube with the universal**



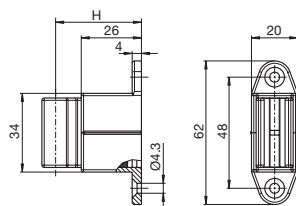
Characteristics

- The tube with the pre-mounted safety clip is inserted on the profile trunnion and locks automatically
- The crank handle can be attached and removed by hand without any tools needed

Part Nr.	Description
510E230	□ RAL 9016
510E231	■ RAL 9005
510E232	□ RAL 7035
510E233	■ RAL 8019

514F... | Adjustable crank holder

Application: **for all crank handles from diameter 12 to 17 mm**



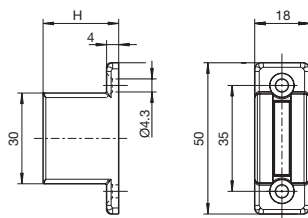
Characteristics

- Adjustable in 6 steps (33-53 mm)
- Colours available: similar to RAL 7035, 9016 and 8019
- High-quality plastic with elastic qualities

Part Nr.	Colour	Height [H]
514F133	■ RAL 7035	33-37-41-45-49-53 mm
514F134	■ RAL 9005	33-37-41-45-49-53 mm
514F141	□ RAL 9016	33-37-41-45-49-53 mm

514F... | Magnetic crank holder

Application: **for all crank handles from diameter 12 to 17 mm**



Characteristics

- Colours available: similar to RAL 7035, 9016 and 8019
- For steel crank handles and/or connecting tubes

Distance 25 mm

Part Nr.	Colour	Height [H]
514F250	■ RAL 7035	25 mm
514F251	■ RAL 9005	25 mm
514F252	■ RAL 8019	25 mm
514F255	□ RAL 9016	25 mm

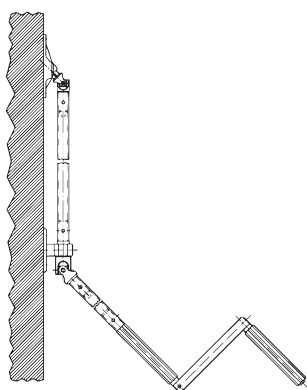
Distance 35 mm

Part Nr.	Colour	Height [H]
514F350	■ RAL 7035	35 mm
514F352	■ RAL 8019	35 mm
514F355	□ RAL 9016	35 mm

Distance 45 mm

Part Nr.	Colour	Height [H]
514F450	■ RAL 7035	45 mm
514F452	□ RAL 9016	45 mm

Tube support and universal joint

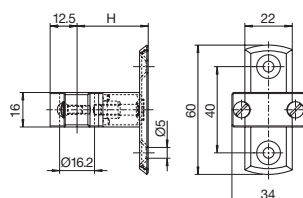


Tube support and universal joint

- Optimal handling for long cranks
- Universal joint with additional shaft for tube support
- Intermediate bearing for long connecting tubes (>200 cm) and deflecting crank handles

514F00. | Rod bearing

Intermediate bearing for long connecting tubes (>200 cm) and deflecting crank handle

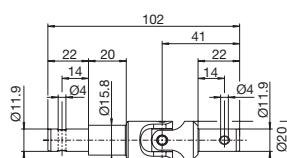


Characteristics

- Bright nickel-plated surface
- Additional universal joint (818F033 or 820F511)

Part Nr.	Colour	Height
514F006	■ Nickel-plated	33 mm
514F007	■ Nickel-plated	41 mm

820F51. | Universal joints for rod bearing



Characteristics

- To connect the tubes when using the rod bearing 514F00.

Part Nr.	Material	Surface	Drive ▲	Output ▲
820F057	Steel	■ Zinc-plated	▼ 9,9 mm	▼ 9,9 mm
820F141	Steel	■ Nickel-plated	▼ 12,9 mm	▼ 12,9 mm
820F511	Steel	■ Nickel-plated	▼ 11,9 mm	▼ 11,9 mm
818F033	Aluminium	■ Natural colour anodized	Profiled tube	Profiled tube

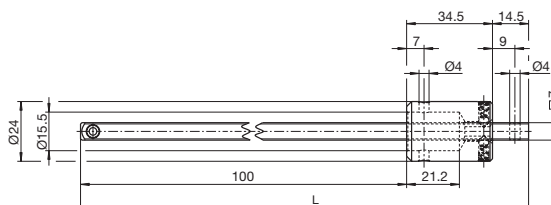
820F7.. | Adapter for telescopic cranks

Application: **For telescopic connecting tube**



Characteristics

- For tube outer diameter 15,5 mm
- Extensions 100, 200, 300, 400 and 500 mm
- With adapter from 15,5 mm to 7 mm square
- Suitable for spherical plain bearings with gear 15,5 mm



Part Nr.	Material	Length [L]	Surface	Connection
820F762	Aluminium	150 mm	☐ Natural colour anodized	☒ 7 mm
820F763	Aluminium	250 mm	☐ Natural colour anodized	☒ 7 mm
820F764	Aluminium	350 mm	☐ Natural colour anodized	☒ 7 mm
820F765	Aluminium	450 mm	☐ Natural colour anodized	☒ 7 mm
820F766	Aluminium	550 mm	☐ Natural colour anodized	☒ 7 mm

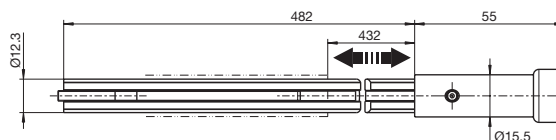
PA.400 | Adapter for profiled tubes

Application: **For telescopic connecting tube**



Characteristics

- For profiled tube
- Extensible up to 400 mm
- Minimum tube length 520 mm



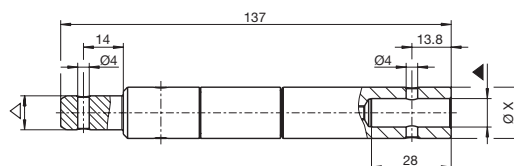
Part Nr.	Ø/Material	Surface
PAG400	15,5 mm / Aluminium	☐ RAL 7035
PAN400	15,5 mm / Aluminium	☐ Natural colour anodized
PAW400	15,5 mm / Aluminium	☐ RAL 9016

748F... | Overload protection



Characteristics

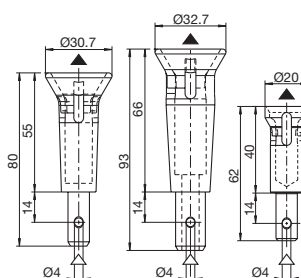
- For mounting between universal and connecting tube
- Available with different release moment
- Various types of drives and outputs available



Part Nr.	Material	Surface	Diameter [mm][x]	Release torque [Nm]	Drive Δ	Output $\blacktriangle$
748F007	Aluminium	Natural col. anod.	20 mm	2- 2,5 Nm	9,9 mm	10 mm
748F009	Aluminium	Natural col. anod.	18 mm	4 Nm	9,9 mm	10 mm
748F010	Aluminium	Natural col. anod.	18 mm	4 Nm	11,9 mm	10 mm

531F.../532F.../535F... | Bell coupling

Application: **removable crank rods**



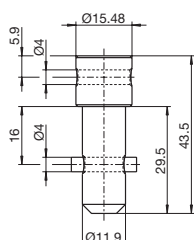
Characteristics

- The bayonet catch ensures that the crank handles are hinged securely and will not become unhinged when the coupling is turned to the right or left
- With matching spiral pin for universal trunnion

Part Nr.	Surface	Receiver	Trunnion
532F099	Nickel-plated	11,9 mm	Ø 9,9 mm
532F119	Nickel-plated	11,9 mm	Ø 11,9 mm
532F100	Zinc-plated	11,9 mm	Ø 9,9 mm
531F099	Nickel-plated	13,9 mm	Ø 9,9 mm
531F119	Nickel-plated	13,9 mm	Ø 11,9 mm
531F139	Nickel-plated	13,9 mm	Ø 13,9 mm
535F502	Zinc-plated	9,9 mm	Ø 9,9 mm
535F506	Nickel-plated	9,9 mm	Ø 9,9 mm
535F507	Zinc-plated	9,9 mm	Ø 12 with screw
532F127	Nickel-plated	For profiled tube	Profiled tube

820F... | Connecting trunnion

Application: **Connecting piece for universal 818F... to insert bell coupling 532F119**



Characteristics

- For mounting in bore Ø 15,5 mm

Part Nr.	
820F427	

506N4..-1 | Spiral pin



Characteristics

- Pin for reception of the bell coupling on the universal trunnion
- Spiral pin 506N420-1 for bell coupling 531F...
- Spiral pin 506N418-1 for bell coupling 532F...
- Spiral pin 506N424-1 for bell coupling 532F... with profiled trunnion
- Spiral pin 506N415-1 for bell coupling 535F...

Part Nr.	Material	Outside-Ø	Length	Surface
506N415-1	Steel	4 mm	15 mm	Zinc-plated
506N418-1	Steel	4 mm	18 mm	Zinc-plated
506N420-1	Steel	4 mm	20 mm	Zinc-plated
506N424-1	Steel	4 mm	24 mm	Zinc-plated

SKS | Detachable crank handle system

Application: for hard-to-reach places in connection with Venetian blinds and rolling shutters

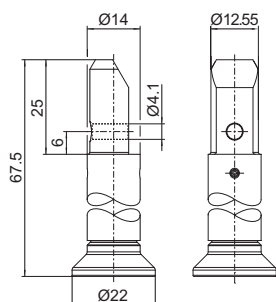


Characteristics

- Allows easy disassembly of the crank system after usage
- Optimal in areas where a crank system is a disturbing feature
- Prevents misuse of the crank system by unauthorized persons (schools, public buildings, etc.)

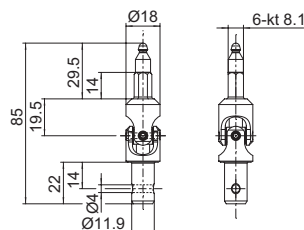
Note

- For 45° and 90° spherical bearings
- Consisting of funnel and trunnion
- Funnel can also be permanently installed in gear unit



Funnel for rods

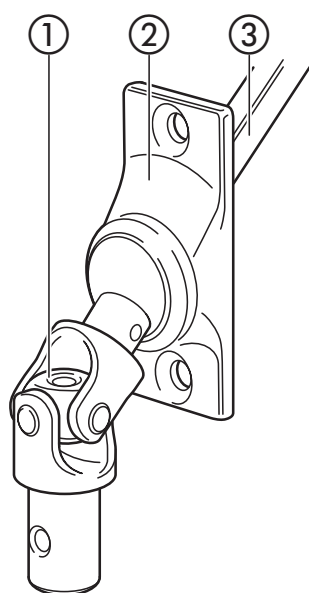
Part Nr.	Surface	Drive Δ
532F104	Natural colour anodized	Profile tube
532B001	Natural colour anodized	11,9 mm



Locking tip for rods

Part Nr.	Surface	Drive Δ
818F090	Natural colour anodized	11,9 mm
818F091	Natural colour anodized	Profile tube
818F092	Natural colour anodized	9,9 mm

Information on universal



How to find the suitable universal for your application

① Universal joints

- 816F... made of steel, diameter 16 mm, max. load 3 Nm
- 818F... made of aluminium, diameter 18 mm, max. load 5 Nm

② Universal plates

- Deflection 45° or 90°
- High strength plastic in 3 colours (white, grey and brown). Further colours on request.
- Die-cast zinc, nickel-plated. Powder-coated colours on request.

③ Output rods

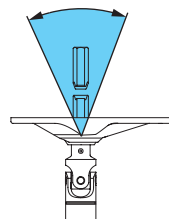
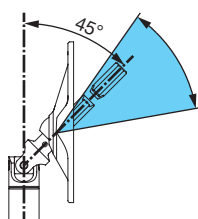
- Depending on the gear. Rod lengths depending on structural conditions.

Information on the swing angle for universal plates

45° universal

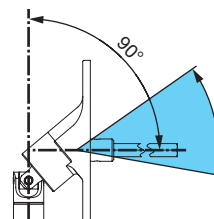
vertical installation

horizontal installation

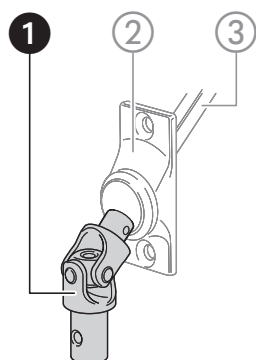


90° universal

vertical installation

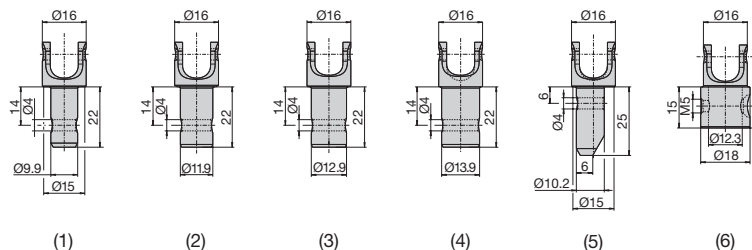


816F... | Universal joints for universals



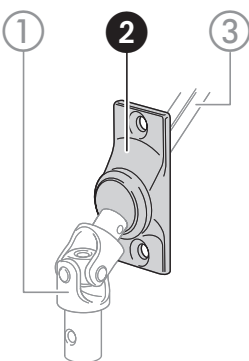
Characteristics

- Steel universal joints diameter 16 mm (up to 3 Nm)
- Further models and connection trunnions on request



Part Nr.	Material	Trunnion
816F... (1)	Steel	┴ 9,9 mm
816F... (2)	Steel	┴ 11,9 mm
816F... (3)	Steel	┴ 12,9 mm
816F... (4)	Steel	┴ 13,9 mm
816F... (5)	Steel	┴ PROFIL
816F... (6)	Steel	○ 12,3 mm

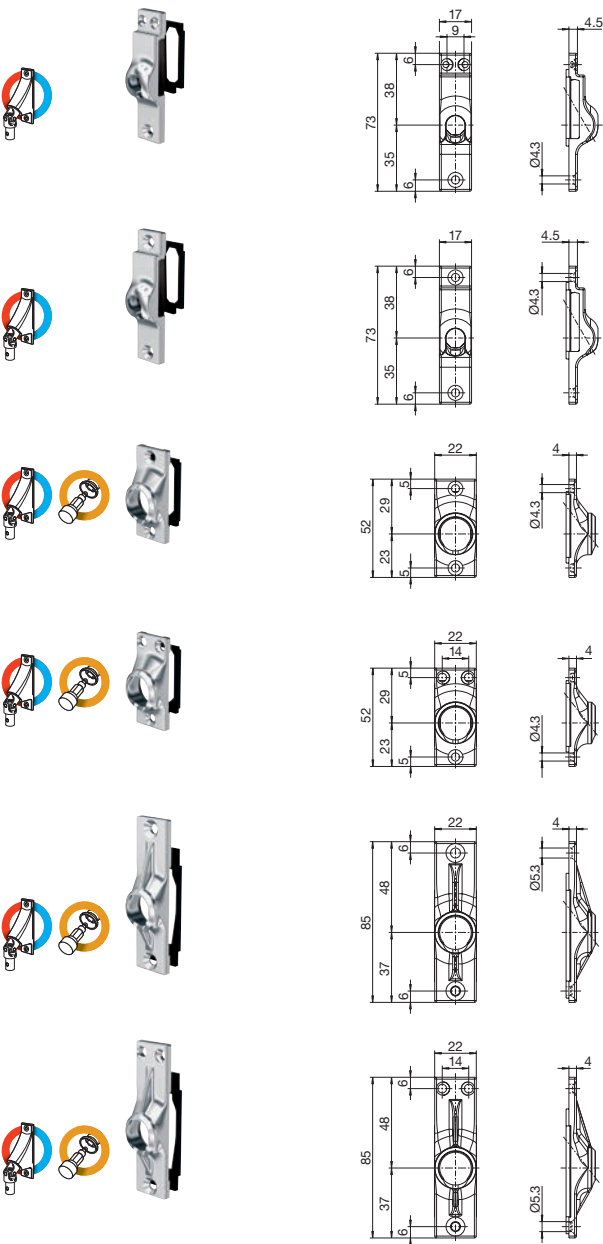
816F... | Universal plates 45°



Characteristics

- Max. torque 3 Nm
- Universal joints made of steel
- Various connecting trunnions and rods available
- Fixation plates made of diecast zinc (nickel-plated) or plastic in 3 different colours (white, grey, brown)
- Pivoting range depends on the plate type

Airtight design



Part Nr.	Pivoting range	Material	Height	Width
816F205....	50°	Zinc	73,0 mm	17,0 mm

airtight design
best suited for wooden windows

Part Nr.	Pivoting range	Material	Height	Width
816F204....	50°	Zinc	73,0 mm	17,0 mm

airtight design

Part Nr.	Pivoting range	Material	Height	Width
816F202....	50°	Zinc	52,0 mm	22,0 mm

airtight design

Part Nr.	Pivoting range	Material	Height	Width
816F203....	50°	Zinc	52,0 mm	22,0 mm

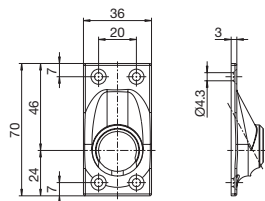
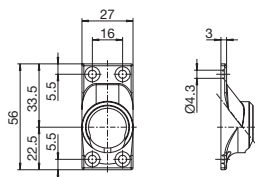
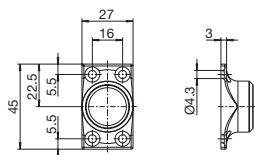
airtight design
best suited for wooden windows

Part Nr.	Pivoting range	Material	Height	Width
816F200....	50°	Zinc	85,0 mm	22,0 mm

airtight design

Part Nr.	Pivoting range	Material	Height	Width
816F201....	50°	Zinc	85,0 mm	22,0 mm

airtight design
best suited for wooden windows



Part Nr.	Pivoting range	Material	Height	Width
816F12....	35°	Zinc	45,0 mm	27,0 mm

Part Nr.	Pivoting range	Material	Height	Width
816F11....	50°	Zinc	56,0 mm	27,0 mm

Part Nr.	Pivoting range	Material	Height	Width
816F13....	50°	Zinc	70,0 mm	36,0 mm

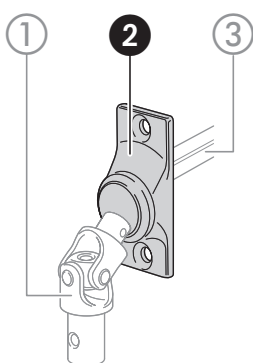
Venetian blinds

Rolling shutters

Textile sun protection

System components

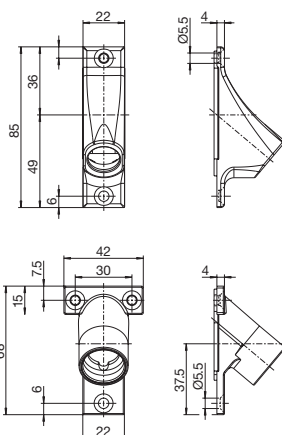
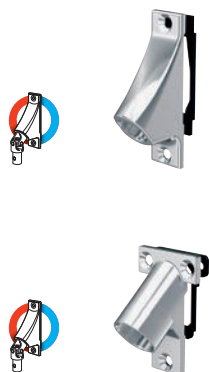
816F... | Universal plates 90°



Characteristics

- Max. torque 3 Nm
- Universal joints made of steel
- Various connecting trunnions and rods available
- Fixation plates made of diecast zinc (nickel-plated) or plastic in 3 different colours (white, grey, brown)
- Pivoting range depends on the plate type

Airtight design



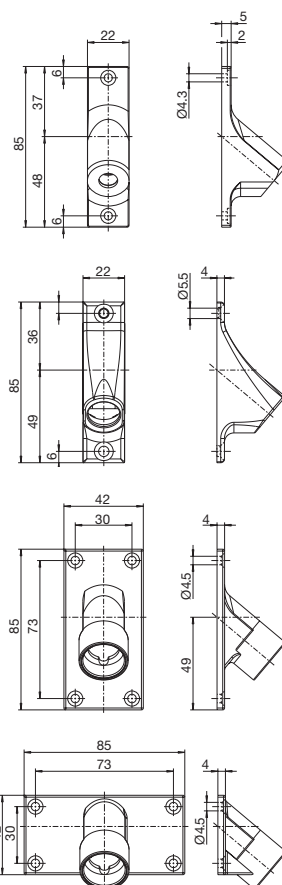
Part Nr.	Pivoting range	Material	Height	Width
816F206....	46°	Zinc	85,0 mm	22,0 mm

airtight design

Part Nr.	Pivoting range	Material	Height	Width
816F207....	46°	Zinc	68,0 mm	42,0 mm

airtight design

Standard design



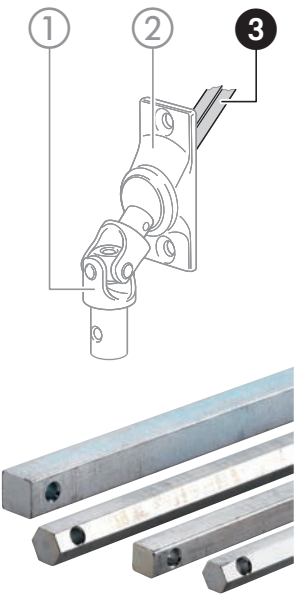
Part Nr.	Pivoting range	Material	Height	Width
816F2D....	46°	Plastic	85,0 mm	22,0 mm

Part Nr.	Pivoting range	Material	Height	Width
816F16....	46°	Zinc	85,0 mm	22,0 mm

Part Nr.	Pivoting range	Material	Height	Width
816F40....	46°	Zinc	85,0 mm	42,0 mm

Part Nr.	Pivoting range	Material	Height	Width
816F41....	46°	Zinc	42,0 mm	85,0 mm

816E... | Output rods



Characteristics

- Different profiles and lengths available
- Made of steel with zinc-plated surface

Different rod profiles and lengths	
■ 6 mm	300 mm and 500 mm
■ 8 mm	300 mm and 500 mm
● 6 mm	300 mm and 500 mm
● 7 mm	300 mm and 500 mm

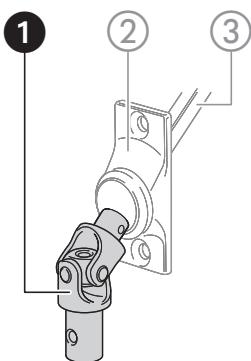
Venetian blinds

Rolling shutters

Textile sun protection

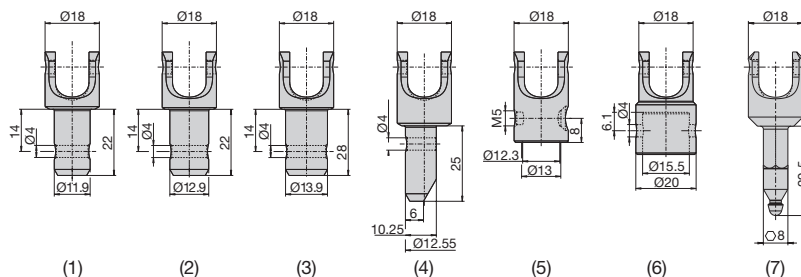
System components

818F... | Universal joints for universals



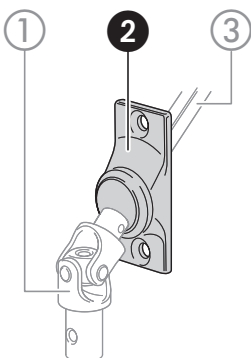
Characteristics

- Aluminium universal joints diameter 18 mm (up to 5 Nm)
- Further models and connection trunnions on request



Part Nr.	Material	Trunnion
818F... (1)	Aluminium	11,9 mm
818F... (2)	Aluminium	12,9 mm
818F... (3)	Aluminium	13,9 mm
818F... (4)	Aluminium	Profiled tube
818F... (5)	Aluminium	12,3 mm
818F... (6)	Aluminium	15,5 mm
818F... (7)	Aluminium	8 mm (SKS)

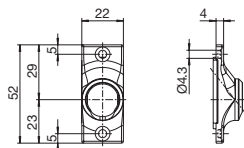
818F... | Universal plates 45°



Characteristics

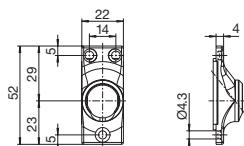
- Max. torque 5 Nm
- Universal joints made of aluminium
- Various connecting trunnions and rods available
- Fixation plates made of diecast zinc (nickel-plated) or plastic in 3 different colours (white, grey, brown)
- Pivoting range depends on the plate type

Airtight design



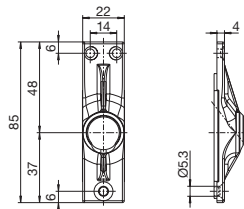
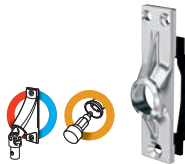
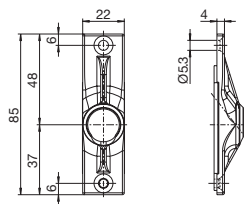
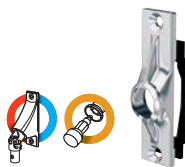
Part Nr.	Pivoting range	Material	Height	Width
818F202....	50°	Zinc	52,0 mm	22,0 mm

airtight design

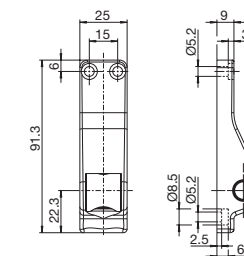
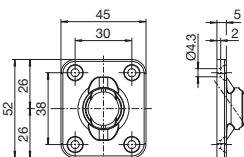
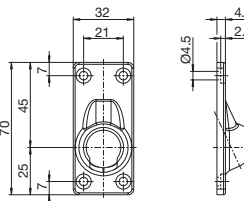
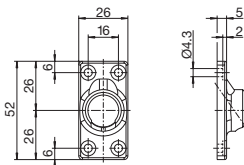
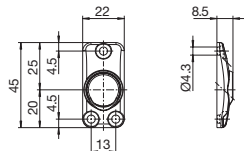
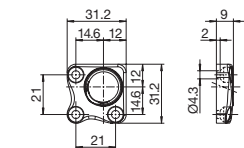


Part Nr.	Pivoting range	Material	Height	Width
818F203....	50°	Zinc	52,0 mm	22,0 mm

airtight design best suited for wooden windows



Standard design



Part Nr.	Pivoting range	Material	Height	Width
818F200....	50°	Zinc	85,0 mm	22,0 mm

airtight design

Part Nr.	Pivoting range	Material	Height	Width
818F201....	50°	Zinc	85,0 mm	22,0 mm

airtight design
best suited for wooden windows

Part Nr.	Pivoting range	Material	Height	Width
818F113....	+ 33°/- 22°	Plastic	31,2 mm	31,2 mm

suitable for folding universal joint

Part Nr.	Pivoting range	Material	Height	Width
818F114....	+ 42°/- 22°	Plastic	45,0 mm	22,0 mm

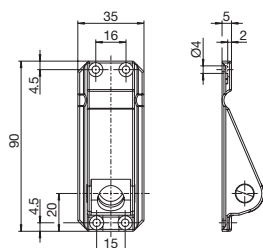
suitable for folding universal joint

Part Nr.	Pivoting range	Material	Height	Width
818F26....	50°	Plastic	52,0 mm	26,0 mm

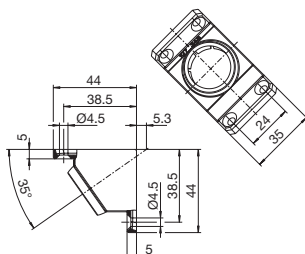
Part Nr.	Pivoting range	Material	Height	Width
818F1A....	65°	Plastic	70,0 mm	32,0 mm

Part Nr.	Pivoting range	Material	Height	Width
818F(0)25....	45°	Plastic	52,0 mm	45,0 mm

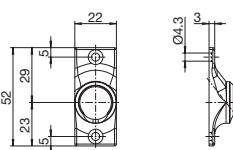
Part Nr.	Pivoting range	Material	Height	Width
818F37....	70°	Plastic	91,3 mm	25,0 mm



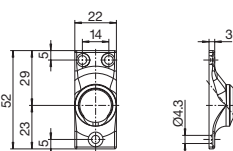
Part Nr.	Pivoting range	Material	Height	Width
818F2U....	70°	Plastic	90,0 mm	35,0 mm



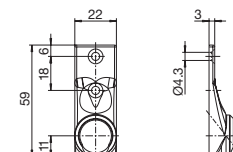
Part Nr.	Pivoting range	Material	Height	Width
818FWW....	25°	Plastic	44,0 mm	35,0 mm



Part Nr.	Pivoting range	Material	Height	Width
818F03....	50°	Zinc	52,0 mm	22,0 mm

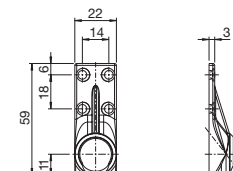


Part Nr.	Pivoting range	Material	Height	Width
818F04....	50°	Zinc	52,0 mm	22,0 mm



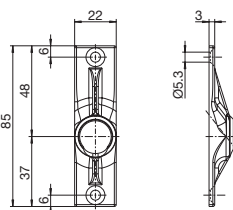
Part Nr.	Pivoting range	Material	Height	Width
818F05....	50°	Zinc	59,0 mm	22,0 mm

VEKA VARIANT

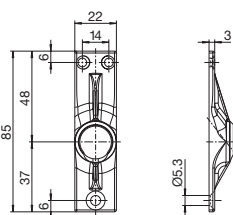


Part Nr.	Pivoting range	Material	Height	Width
818F67....	50°	Zinc	59,0 mm	22,0 mm

best suited for wooden windows

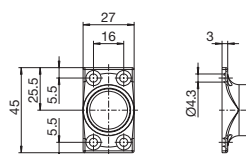


Part Nr.	Pivoting range	Material	Height	Width
818F01....	50°	Zinc	85,0 mm	22,0 mm

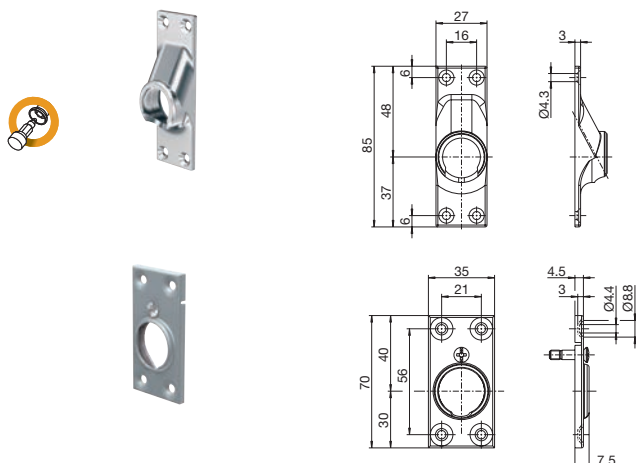


Part Nr.	Pivoting range	Material	Height	Width
818F02....	50°	Zinc	85,0 mm	22,0 mm

best suited for wooden windows



Part Nr.	Pivoting range	Material	Height	Width
818F12....	35°	Zinc	45,0 mm	27,0 mm

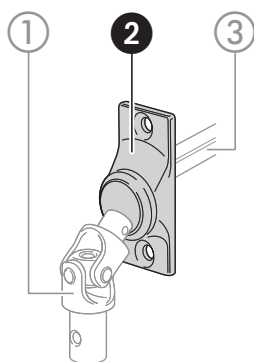


Part Nr.	Pivoting range	Material	Height	Width
818F15....	65°	Zinc	85,0 mm	27,0 mm

Part Nr.	Pivoting range	Material	Height	Width
818F(0)I3	50°	INOX	70,0 mm	35,0 mm

Venetian blinds

818F... | Universal plates 90°

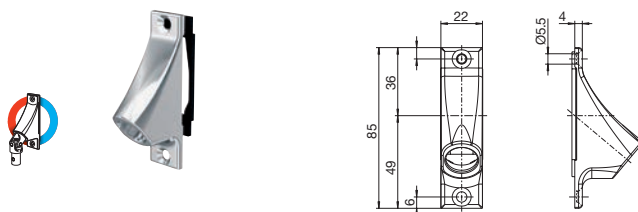


Characteristics

- Max. torque 5 Nm
- Universal joints made of aluminium
- Various connecting trunnions and rods available
- Fixation plates made of diecast zinc (nickel-plated) or plastic in 3 different colours (white, grey, brown)
- Pivoting range depends on the plate type

Rolling shutters

Airtight design

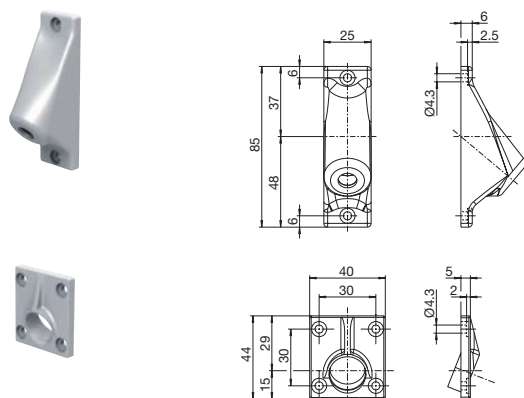


Part Nr.	Pivoting range	Material	Height	Width
818F46....	46°	Zinc	85,0 mm	22,0 mm

airtight design

Textile sun protection

Standard design

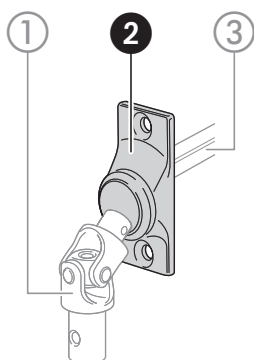


Part Nr.	Pivoting range	Material	Height	Width
818F(0)44....	46°	Plastic	85,0 mm	22,0 mm

Part Nr.	Pivoting range	Material	Height	Width
818F1B....	46°	Plastic	44,0 mm	40,0 mm

System components

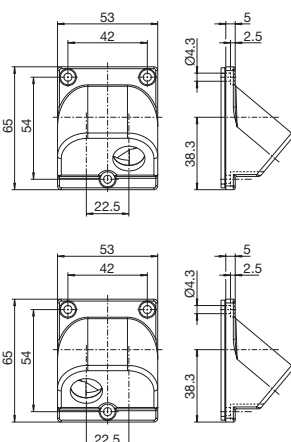
818F... | Plain spherical bearings 90° to accommodate a wide variety of misalignment applications



Characteristics

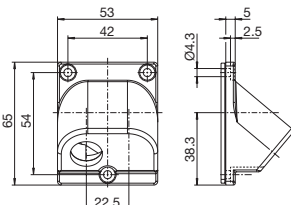
- To compensate for misalignment between gear and crank or in hard-to-reach spaces
- Max. torque 5 Nm
- Universal joints made of aluminium
- Various connecting trunnions and rods available
- Housing made of plastic in 3 different colour (white, grey, brown)

Plain spherical bearings (airtight design)



Part Nr.	Pivoting range	Material	Height	Width
818F562	60°	Plastic	65,0 mm	53,0 mm

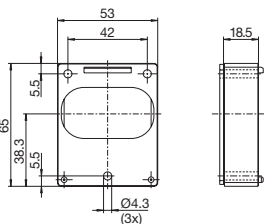
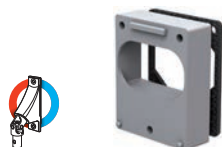
airtight design



Part Nr.	Pivoting range	Material	Height	Width
818F563	60°	Plastic	65,0 mm	53,0 mm

airtight design

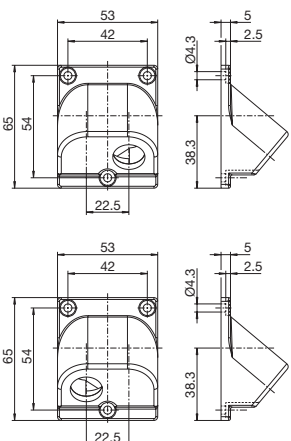
Extension plate for plain spherical bearings to accommodate a wide variety of misalignment applications (airtight design)



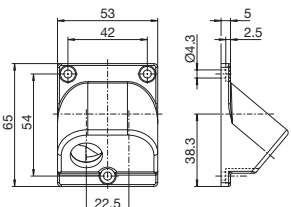
Part Nr.	Pivoting range	Material	Height	Width
818F568	-	Plastic	65,0 mm	53,0 mm

airtight design

Plain spherical bearings to accommodate a wide variety of misalignment applications (normal design)

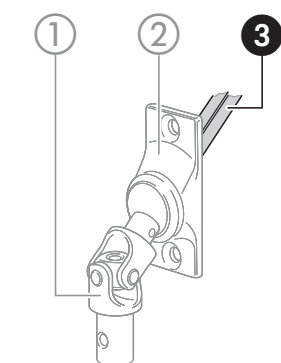


Part Nr.	Pivoting range	Material	Height	Width
818F501....	60°	Plastic	65,0 mm	53,0 mm



Part Nr.	Pivoting range	Material	Height	Width
818F500....	60°	Plastic	65,0 mm	53,0 mm

816E... | Output rods



Characteristics

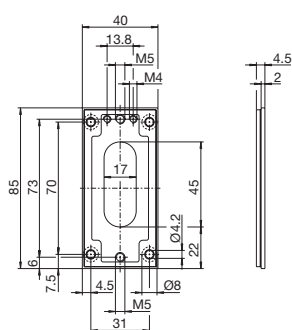
- Different profiles and lengths available
- Made of steel with zinc-plated surface

Different rod profiles and lengths

■ 6 mm	300 mm and 500 mm
■ 8 mm	300 mm and 500 mm
● 6 mm	300 mm and 500 mm
● 7 mm	300 mm and 500 mm

740F.. | Spacers 40x85 mm / 85x85 mm

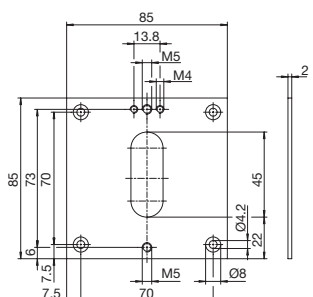
Application: **Covering large openings in walls**



Characteristics

- Suitable for all universals with 22 x 85 mm base plate
- Steel
- Bright nickel-plated or powder-coated surface
- Airtight design also available

Part Nr.	Colour	Description	Material thickness	Ext. dimensions
740F002	■ Nickel-plated	Airtight	2 mm	40X85 mm
740F003	■ Nickel-plated	-	2 mm	40X85 mm
740F008	□ RAL 9016	-	2 mm	40X85 mm



Characteristics

- Suitable for all universals with 22 x 85 mm base plate
- Steel
- Bright nickel-plated or powder-coated surface
- Airtight design also available

Part Nr.	Colour	Description	Material thickness	Ext. dimensions
740F001	■ Nickel-plated	-	2 mm	85X85 mm
740F006	■ Nickel-plated	Airtight	2 mm	85X85 mm
740F007	□ RAL 9016	-	2 mm	85X85 mm

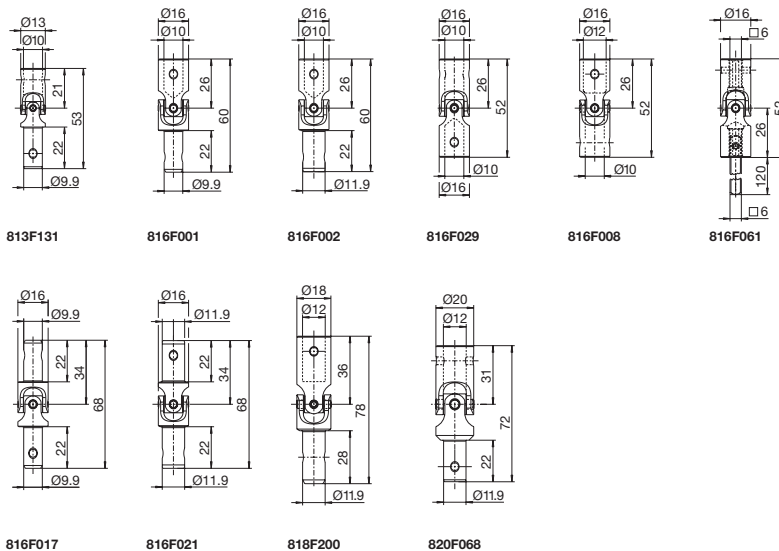
813F.../816F.../818F.../820F... | Universal joints

Application: **Connection of coupled systems with angular displacement**



Characteristics

- Max. torque: 813F... 2 Nm, 816F... 3 Nm, 818F... 5 Nm, 820F... 6 Nm
- Universal joints made of steel, hardened type on request
- Various connecting pieces available
- Surface either zinc-plated or bright nickel-plated
- Max. deflection 45°

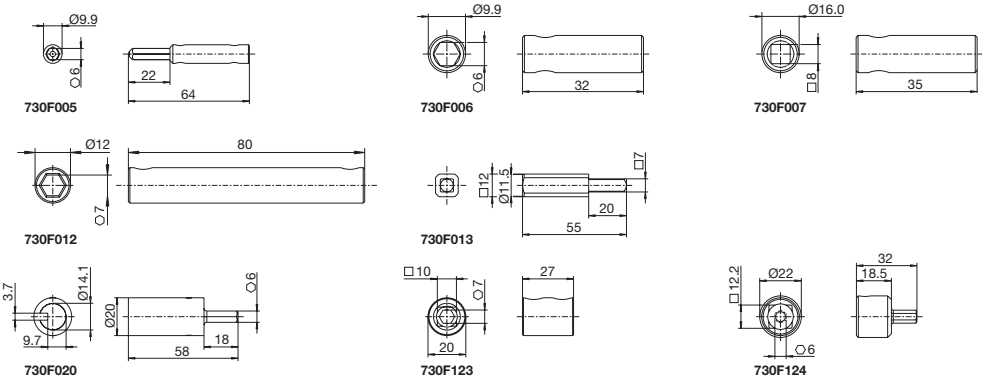


Part Nr.	Material	Surface	Drive	Output
813F131	Steel	Zinc-plated	9,9 mm	10 mm
816F001	Steel	Nickel-plated	9,9 mm	10 mm
816F002	Steel	Nickel-plated	11,9 mm	10 mm
816F029	Steel	Nickel-plated	10 mm	10 mm
816F008	Steel	Nickel-plated	10 mm	12 mm
816F061	Steel	Zinc-plated	6 mm	6 mm
816F017	Steel	Nickel-plated	9,9 mm	9,9 mm
816F021	Steel	Nickel-plated	11,9 mm	11,9 mm
818F200	Aluminium	Natural colour anodized	11,9 mm	12 mm
820F068	Steel	Nickel-plated	11,9 mm	12 mm

730F... | Coupling pieces

Characteristics

- Various connecting pieces available
- Surface either zinc-plated or bright nickel-plated



Part Nr.	Drive	Output
730F005	6 mm	Ø10 mm
730F006	6 mm	6 mm
730F007	8 mm	8 mm
730F012	7 mm	7 mm
730F013	12 mm	7 mm
730F020	6 mm	For grooved tube 14 mm
730F123	7 mm	10 mm
730F124	6 mm	12,3 mm

Venetian blinds

Rolling shutters

Textile sun protection

System components

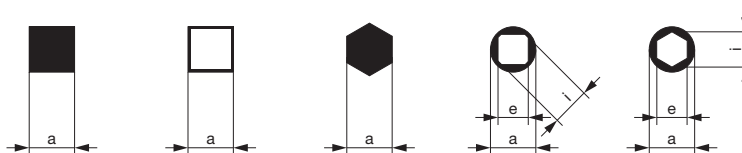
723F... | Tubes and bars

Characteristics

- Square bar
- Square brass tube
- Hexagonal bar
- Steel tube with inner square
- Steel tube with inner hexagonal

Note

- Part Nr. and current lengths available on request
- Dimensions e and i on request



Part Nr.	Material	Surface	Length	Ext. dimensions [a]	Profile
723F002	Steel	■ Zinc-plated	5000 mm	6 mm	■ 6 mm
723F004	Steel	■ Zinc-plated	5000 mm	6 mm	● 6 mm
723F006	Steel	⊠ Bright finish	5700 mm	8 mm	■ 8 mm
723F016	Steel	⊠ Bright finish	3000 mm	7 mm	● 7 mm
816E030	Steel	■ Zinc-plated	526 mm	6 mm	● 6 mm
816E067	Steel	■ Zinc-plated	526 mm	8 mm	■ 8 mm
816E274	Steel	■ Zinc-plated	526 mm	6 mm	■ 6 mm
723F007	Steel	■ Zinc-plated	500 mm	12 mm	○ 6 mm
723F008	Steel	⊠ Bright finish	4500 mm	12 mm	○ 6 mm
723F009	Steel	■ Zinc-plated	500 mm	14 mm	○ 8 mm
723F010	Steel	⊠ Bright finish	2700 mm	14 mm	○ 8 mm
723F011	Steel	■ Zinc-plated	500 mm	16 mm	○ 8 mm
723F012	Steel	⊠ Bright finish	3000 mm	16 mm	○ 8 mm
723F013	Messing	▨ Nickel-plated	500 mm	16 mm	□ 14 mm
723F018	Steel	⊠ Bright finish	3000 mm	10 mm	○ 6 mm
723F020	Steel	⊠ Bright finish	3000 mm	12 mm	○ 7 mm
723F024	Steel	⊠ Bright finish	3000 mm	10 mm	○ 7 mm
723F025	Steel	■ Zinc-plated	500 mm	10 mm	○ 5 mm
723F026	Steel	⊠ Bright finish	3000 mm	10 mm	○ 5 mm
723F031	Aluminium	⊠ Bright finish	500 mm	12 mm	○ 7 mm

430F5.. | Return gear

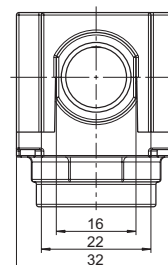
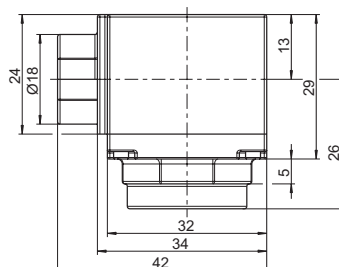
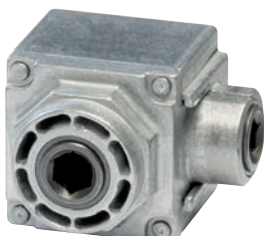
Max. output torque	6 Nm
Reduction ratio	1:1 1,5:1 1:1,5
Efficiency	0,83

Characteristics

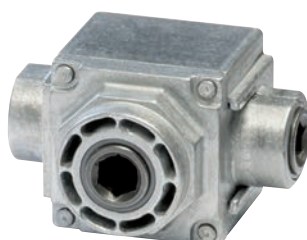
- Diecast zinc housing, worm wheel out of steel
- Plastic bearing bushes
- With one drive and one output

Note

- Other drive/output combinations on request
- Also available as emergency gear (max. 10 Nm)

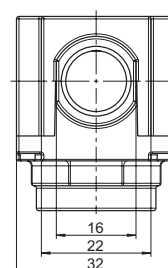
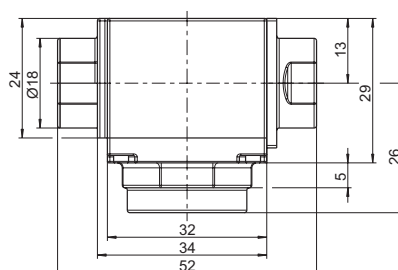


Part Nr.	Drive/output profile	Reduction ratio	Drive(s)/output(s)
430F550	○ 7mm	1 : 1	2
430F551	○ 7mm	1,5 : 1	2
430F552	○ 7mm	1 : 1,5	2



Characteristics

- As stated above, but with one drive and two outputs or two drives and one output

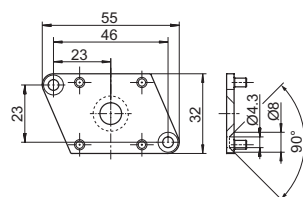


Part Nr.	Drive/output profile	Reduction ratio	Drive(s)/output(s)
430F553	○ 7mm	1 : 1	3
430F554	○ 7mm	1,5 : 1	3
430F555	○ 7mm	1 : 1,5	3

430F503 | Fixation plate

Characteristics

- Countersunk screw incl. (M6 x 16 mm, zinc-plated, with screw lock) for fixation on the gear
- For horizontal and vertical
- Adapted for angle gear 430F5..



Part Nr.	
430F503	

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