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Innovation: Triply stepless adjustable 3D aluminium door-hinges

- horizontal, vertical and door pressure stepless adjustable
- usable up to 150 kg. door weight
- right and left usable
- modern design
- high-quality surfaces
- invisible screwing

► Products, see page 308 and following

With the triply, stepless adjustment on the installed door, WSS enters a completely new market. There has never been something like this.

For right and left up to 100 kg. 2D aluminium door-hinges

- also on installed doors, the door pressure and the horizontal axis can be adjusted
- height adjustment by PVC compensation plate
- for leaf weights up to 100 kg
- right and left usable
- high-quality surfaces
- concealed screwing

► Products, from page 315

Usable for doors up to 100 kg leaf weight.



Stainless, and steel

Steel- and stainless steel door-hinges

- adjustable on installed door
- up to max. 350 kg. leaf weight
- with concealed screwing or to weld-on
- right and left usable

► [Products, from page 336](#)

These steel- and stainless steel hinges are suitable for extremely heavy doors with a certification for fire-/ smoke protection. The high-quality materials guarantee a very high durability.

Specials

Special hinges and special productions

- adjustable gate hinges up to 24 mm bolt-thickness – also completely stainless steel
- Double action hinges, single- and double-sided
- Inlaid hinges
- Special hinges, according to your drawing

► [Products, from page 356](#)

We deliver special hinges corresponding to your drawing within a few days.

Frequently asked questions (FAQ)

■ What is the general buckling load of door hinges ruled by?

The general buckling load is ruled by EN 1935. Depending on the application areas, the hinges are divided into 4 different usage classifications (light, medium, strong, very strong). Additional information you can find on pages 307, 314, 325 and 330.

■ What is the purpose of distance bushes?

Distance bushes is a fixing accessory for outward opening doors. They prevent a compression of the door profile.

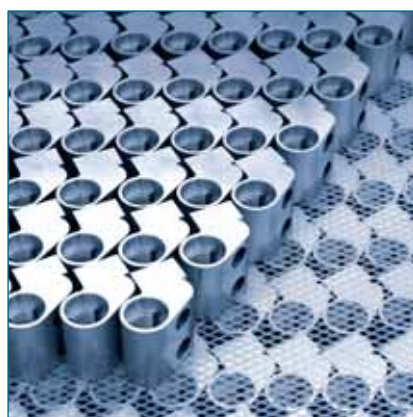


■ What is a shadow flute?

The shadow flute is the visible, afloating flute between the blind- and the leaf frame. The width of that flute must be specified for orders of drilling jigs.

■ How can the correct quantity of hinges for a door be determined?

The quantity of hinges depends on numerous factors like leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing. You can find more information on pages 307, 314, 325 and 330.



■ What is the distance of the center of rotation?

This measurement describes the distance between the screw-on face and the axis of a hinge.

■ What is the axis dimension?

The axis dimension describes the horizontal fixing distance of a hinge.

■ What is the advantage of an inlaid hinge?

Inlaid hinges are invisible, because they are completely concealed by the door profile.

■ What is a security pin good for?

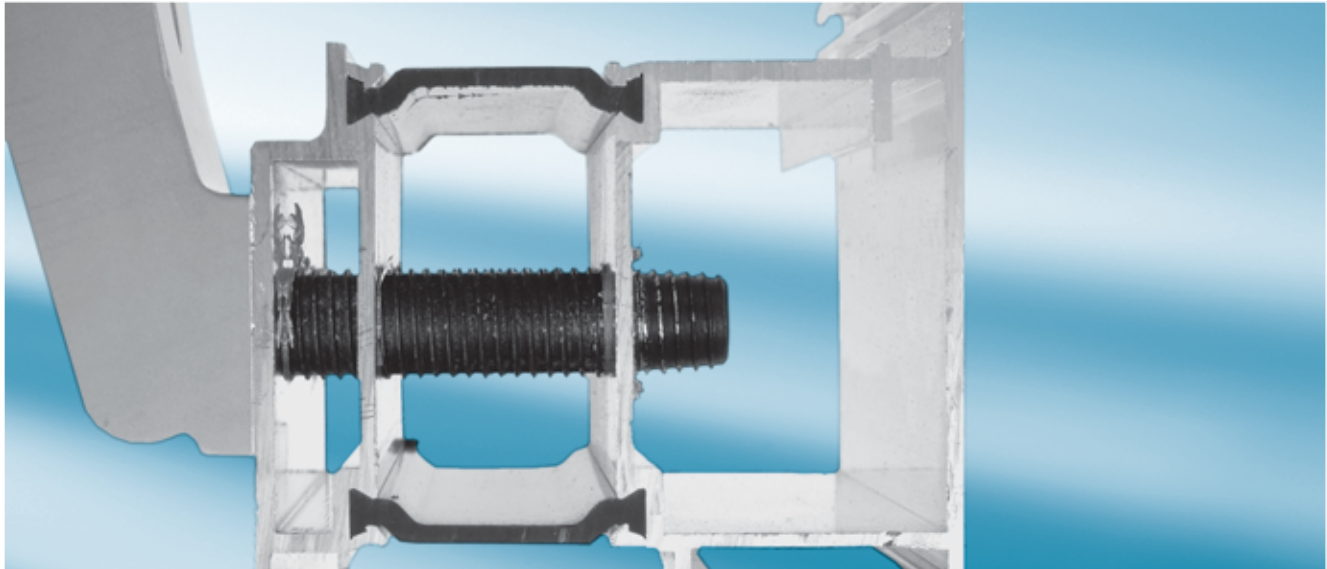
A security pin prevents a hinge-sided lift-up of the door.



■ What does maintenance-free mean concerning hinges?

Maintenance-free hinges do not have to be greased due to high-quality bearing bushes.

Simple installation to multi-chamber profiles



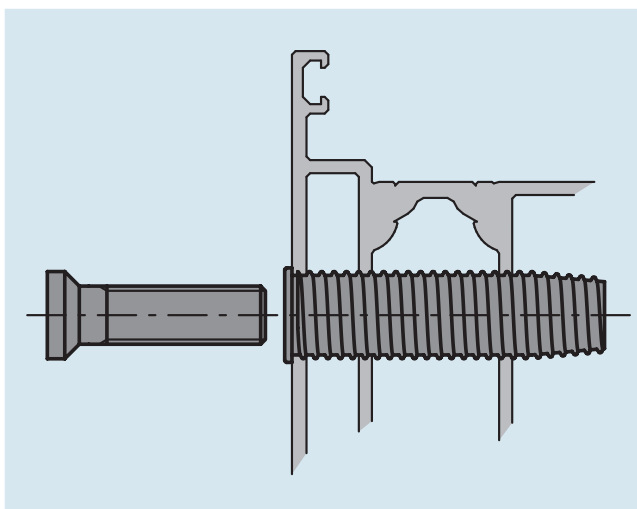
Self-threading screws for fixing of 3D aluminium door-hinges

Installation of 3D aluminium door-hinges is easier with this innovative fixing method.

Instead of fixing with plates as hitherto, you just screw self-threading screws with a Torx-key (T50) inside the holes of the profile drilled by you. The essential thread

becomes cut by the screw itself. Afterwards the hinge must be installed by a fixing screw to the profile.

This solution enables the repair and adjustment of already installed hinges. Also additional hinges can be installed to already installed doors. In short: The installation of hinges is easier and faster. You and your employees can use your time much more efficiently.

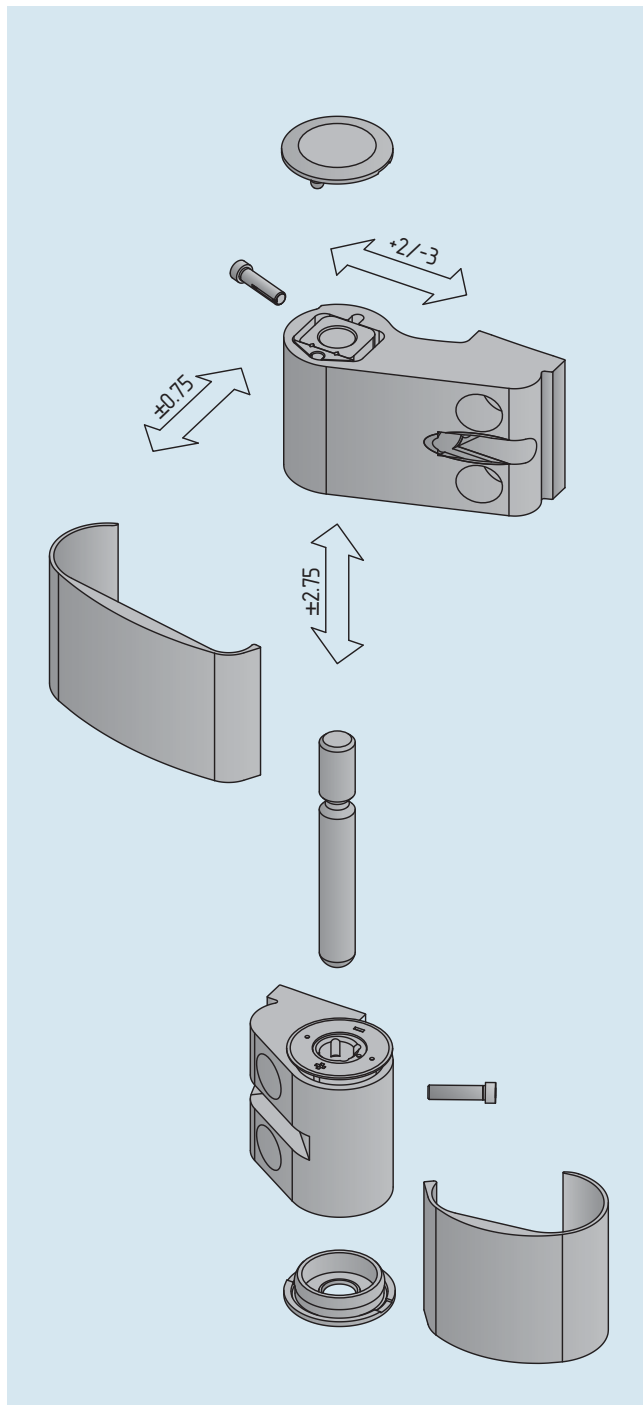


Your benefits:

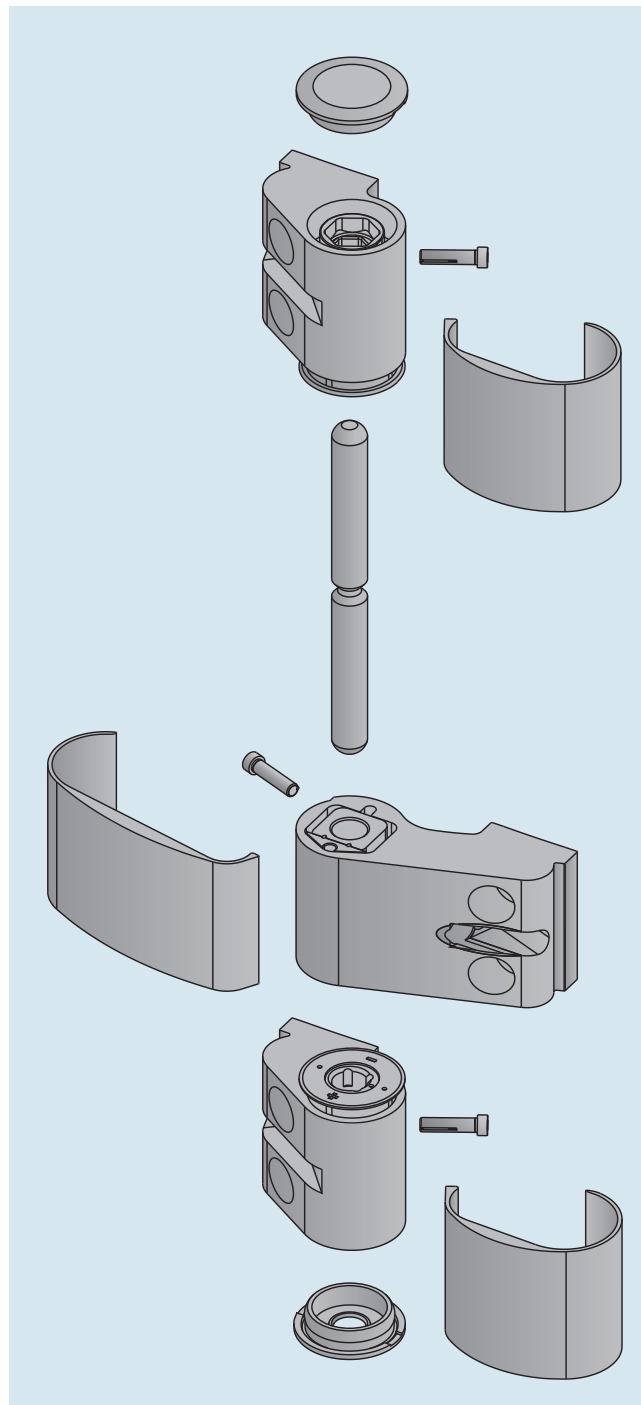
- faster installation of hinges
- tighter fixing of hinges on aluminium profiles, also on exceptionally heavy doors
- easier adjustment and repairing
- additional hinges can be installed later

3D aluminium hinges for light alloy doors (Distance of center of rotation 23/36 mm)

- Any adjustment possibilities can be carried out on already installed doors. (one-man operation)
- Stepless horizontal adjustment $+2/-3$ mm
- Stepless vertical adjustment $\pm 2,75$ mm
- Pressure adjustment $\pm 0,75$ mm
- Right/left usable due to fast retrofitting



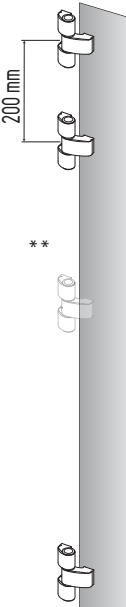
Aluminium door-hinges, 2-parts



Aluminium door-hinge, 3-parts

General suggestions for hinge placement

■ 3D door hinges, distance of center of rotation 23/36 mm

Building	EFH*	EFH*	EFH*	EFH* MFH*	EFH* MFH*	EFH* MFH*	MFH*	MFH*	Public building School Hospital	Public building School Hospital	Public building School Hospital	Public building School Hospital	
Accessories	–	–	–	–	–	–	Door closer Automatic mode		–	–	Door closer Door coordinator device Automatic mode		
Leaf width max. mm	1000	1001-1250		1000	1001-1250		1000	1001-1250	1000	1001-1250	1000	1001-1250	
Leaf weight max. kg.	100	75	100	150	120	150	150	120	150	120	120	120	
Recommended hinge- quantity	2 pcs. 		3 pcs. 	2 pcs. 		3 pcs. 		3 pcs. 	3 pcs. 			4 pcs. 	
Leaf height min. 2000 / max. 2500 mm													
	**		**		**		**		**		200 mm		

* EFH = Detached house

* MFH = Apartment house

** Additional hinge at leaf middle for leaf heights more than 2000 mm.

The quantity of hinges depends on the following factors: profile system, leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing.

Please follow the guidelines and information of the profile system manufacturer to determine the allowed door sizes and door weights.

If there are any questions, please contact us.

**WSS**

3D aluminium door-hinges

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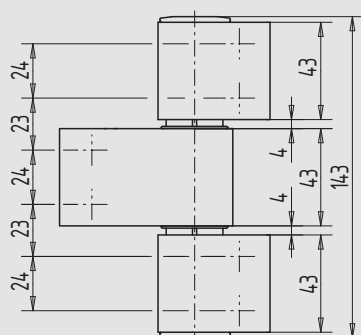
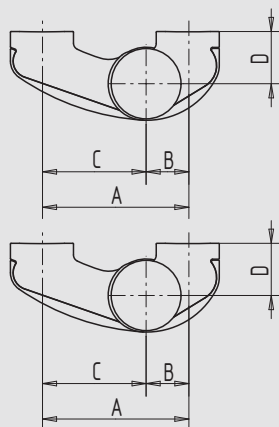
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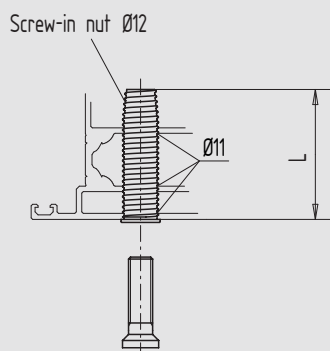
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A	B	C	D
65	19	46	23
78	19	59	23
92	46	46	23
105	46	59	23
65	19	46	36



3D aluminium door-hinge

- stepless 3D-adjustable
- certified according to EN 1935
- right and left hand usable
- screwable/maintenance-free

2-parts



Art.-no.	Center of rotation	Axis-center distance
04.050.2365.---	23	65
04.050.2378.---	23	78
04.050.2392.---	23	92
04.050.2315.---	23	105
04.050.3665.---	36	65
04.050.3678.---	36	78

3-parts

Art.-no.	Center of rotation	Axis-center distance
04.052.2365.---	23	65
04.052.2378.---	23	78
04.052.2392.---	23	92
04.052.2315.---	23	105
04.052.3665.---	36	65
04.052.3678.---	36	78

Surface codes	Material/Surface
---.114	Aluminium, E6/C-0 anodized
---.154	Aluminium, E6/C-34 anodized
---.198	Aluminium, Stainless Steel effect
---.255	Aluminium, RAL 9016 powder-coated
---.299	Aluminium, special surface

Information Without any further specifications, WSS supplies the 2- and 3-part hinges pre-assembled in right handed version with anchor-screw art.-no. 04.056.1043.012.

Anchor-screw

- for multi-chamber-profiles
- to be screwed-in with Torx T50 bit or key
- fastening screw M8 x 30 mm

Art.-no.	L	Material/Surface
04.056.1043.012	43	Steel, yellow chromated
04.056.1050.012	50	Steel, yellow chromated
04.056.1050.405	50	Stainless Steel V2A, bright
04.056.1060.012	60	Steel, yellow chromated

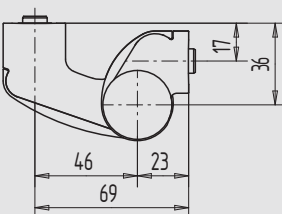
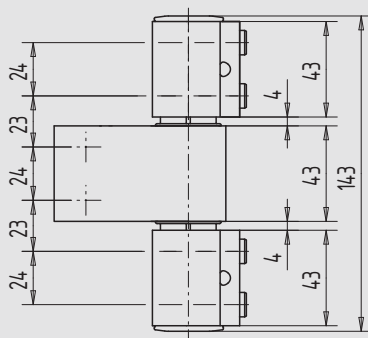
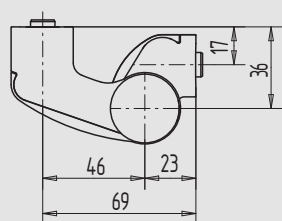
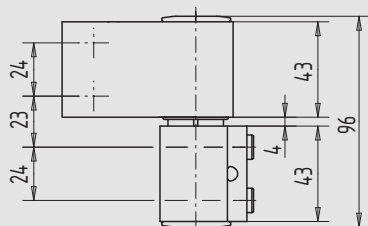
3D aluminium door-hinge for corner post constructions



- stepless 3D-adjustable
- certified according to EN 1935
- weight of leaf up to 150 kgs.
- right and left hand usable
- screwable/maintenance-free

2-parts

Art.-no.	Center of rotation	Axis-center distance
04.106.3669.---	36	69



3-parts

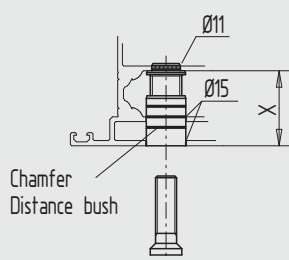
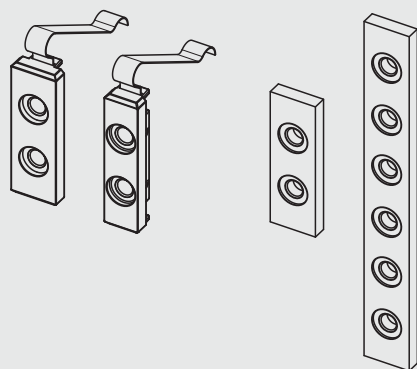
Art.-no.	Center of rotation	Axis-center distance
04.108.3669.---	36	69

Surface codes	Material/Surface
---.114	Aluminium, E6/C-0 anodized
---.154	Aluminium, E6/C-34 anodized
---.198	Aluminium, Stainless Steel effect
---.255	Aluminium, RAL 9016 powder-coated
---.299	Aluminium, special surface

Information	Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories: - counter plates Art.-no. 04.110.0020.780 - fastening screws Art.-no. 04.111.0000.012
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**WSS**

3D aluminium door-hinges



Shim plate for overlapping profiles

- for shimming of the hinge frame-parts
- fixing with anchor-screws = 1 shim plate for each hinge frame-part required
- two additional guiding bushes and screws M8x48 (Art.-No. K0045189) are required for fixing by counter plates

Art.-no.	Thickness
04.109.0003.---	3 mm
04.109.0005.---	5 mm
04.109.0010.---	10 mm

Surface codes	Material/Surface
---.114	Aluminium, E6/C-0 anodized
---.154	Aluminium, E6/C-34 anodized
---.198	Aluminium, Stainless Steel effect
---.255	Aluminium, RAL 9016 powder-coated
---.299	Aluminium, special surface

Guiding bush for shim plate

- fixing with counterplates = 2 additional guiding bushes required

Art.-no.	Suitable for	Material/Surface
04.109.0013.405	04.109.0003.---	Stainless Steel V2A, bright
04.109.0015.405	04.109.0005.---	Stainless Steel V2A, bright
04.109.0110.405	04.109.0010.---	Stainless Steel V2A, bright

Counterplate

Art.-no.	Version	Dim.	Material/Surface
04.110.0020.780	with spring	60x20x12	Zinc Die Casting, yellow chromated
04.110.0015.780	with spring	60x15x12	Zinc Die Casting, yellow chromated
04.110.6020.010	without spring	60x20x6	Steel, zinc-plated
04.110.6015.010	without spring	60x15x6	Steel, zinc-plated
04.110.1540.010	3 parts, without spring	154x20x6	Steel, zinc-plated
04.110.1545.010	3 parts, without spring	154x15x6	Steel, zinc-plated

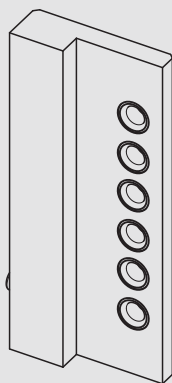
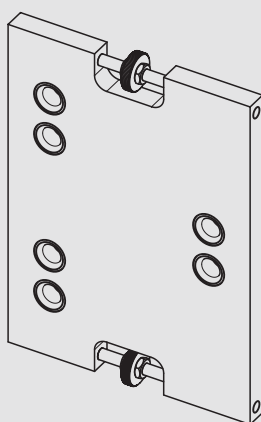
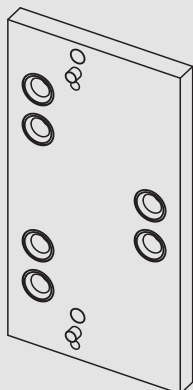
Fastening screw

- Standard

Art.-no.	Measurement	Material/Surface
04.111.0000.012	M8 x 30	Steel, yellow chromated

Distance bush with screw

Art.-no.	Quantity of chamfers	X	Material/Surface
04.111.0111.012	1	13 - < 16	Steel, yellow chromated
04.111.0120.012	2	16 - < 21	Steel, yellow chromated
04.111.0130.012	3	21 - < 30	Steel, yellow chromated
04.111.0140.012	4	30 - < 37	Steel, yellow chromated
04.111.0150.012	5	37 - < 44	Steel, yellow chromated
04.111.0160.012	6	44 - < 51	Steel, yellow chromated



Drilling template for inward and outward opening doors

■ for shadow groove 5/6/8 mm

Art.-no.	Axis-center distance	Material/Surface
04.112.0065.105	65	Aluminium, bright
04.112.0078.105	78	Aluminium, bright

Drilling template for inward and outward opening doors

■ for shadow groove 5/6/8 mm

Art.-no.	Axis-center distance	Material/Surface
04.112.0092.105	92	Aluminium, bright
04.112.0105.105	105	Aluminium, bright

Drilling template for corner post construction

Art.-no.	Shadow flute	Material/Surface
04.112.0005.105	5	Aluminium, bright
04.112.0006.105	6	Aluminium, bright
04.112.0008.105	8	Aluminium, bright

Accessories

for inward opening doors:
drill art.-no. 04.116.0020.005
or art.-no. 04.116.0021.005

for outward opening doors:
drill art.-no. 04.116.0020.005
or art.-no. 04.116.0021.005
pilot counter sink art.-no. 04.117.0030.005
or art.-no. 04.117.0031.005

**WSS**

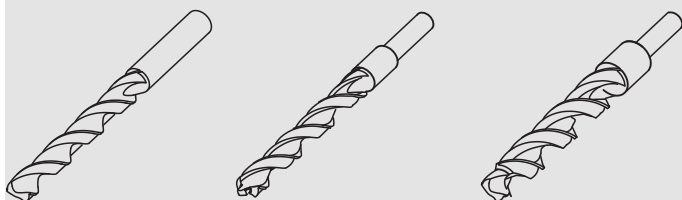
3D aluminium door-hinges

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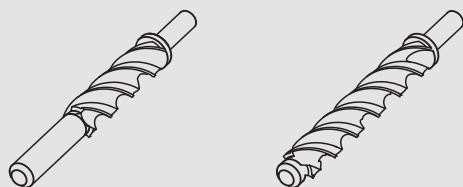


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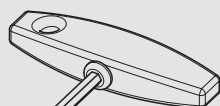


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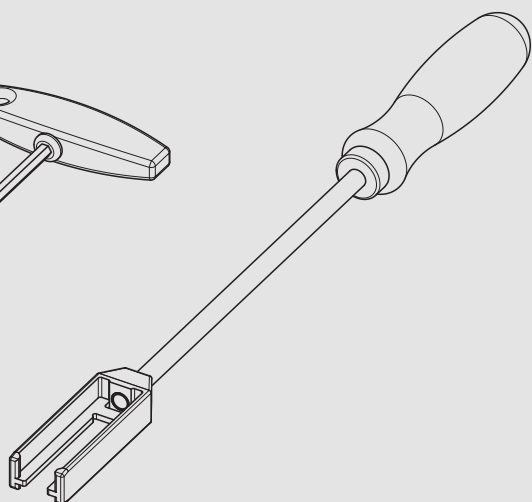


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Tool for installation/adjustment

Art.-no.	Description	Material/ Surface
04.115.0001.705	Adaption SW 10/14	Zinc Die Casting, raw
04.115.0010.005	Inner hexagonal key SW2.5	Steel, bright
04.115.0011.005	Inner hexagonal key SW5	Steel, bright

Drill

Art.-no.	Description	Material/ Surface
04.116.0020.005	Drill 11	Steel, bright
04.116.0021.005	Step drill 5 to 11	Steel, bright
04.116.0022.005	Step drill 11 to 15	Steel, bright

Spot facer

Art.-no.	Description	Material/ Surface
04.117.0030.005	Spotfacer 11, 45 to 15 mm	Steel, bright
04.117.0031.005	Spotfacer 11, 8 to 15 mm	Steel, bright

Auxiliary tools

Art.-no.	Description
04.118.0040.000	Screwdriver for distance bush
04.118.0041.000	Installation bar for insertion of counter-plate

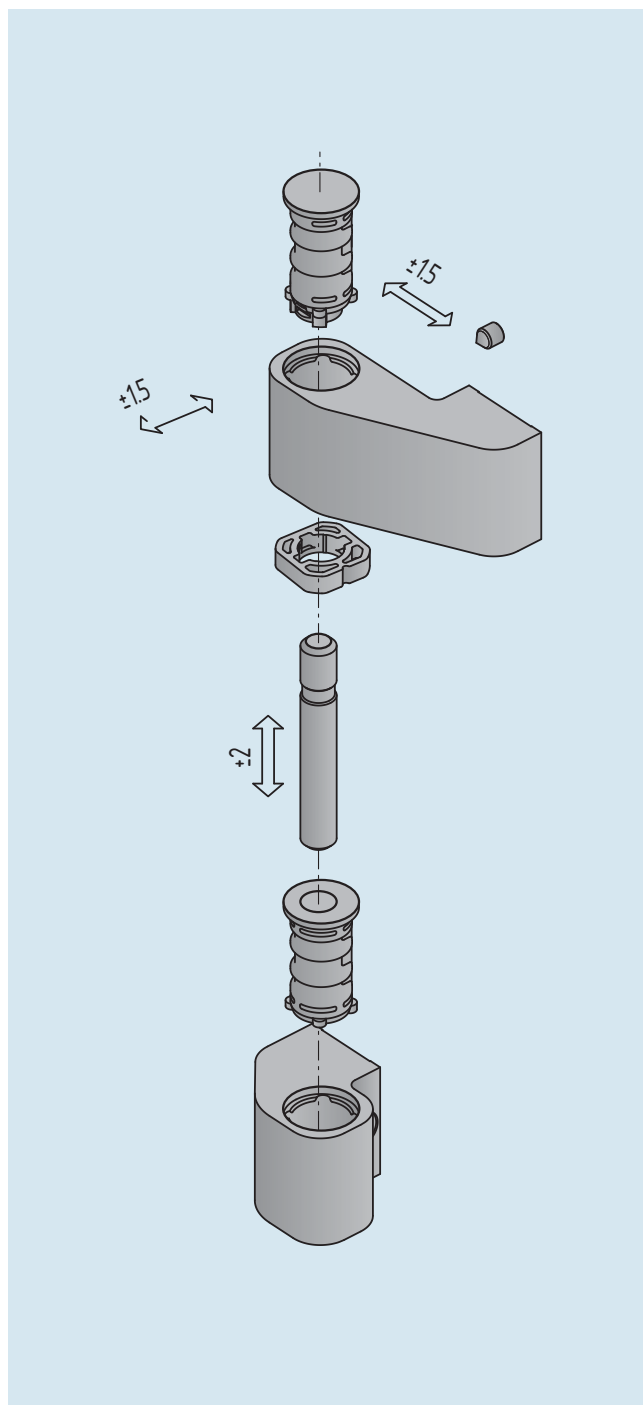
Torx Bit TX 50

■ TX 50 x 35 mm

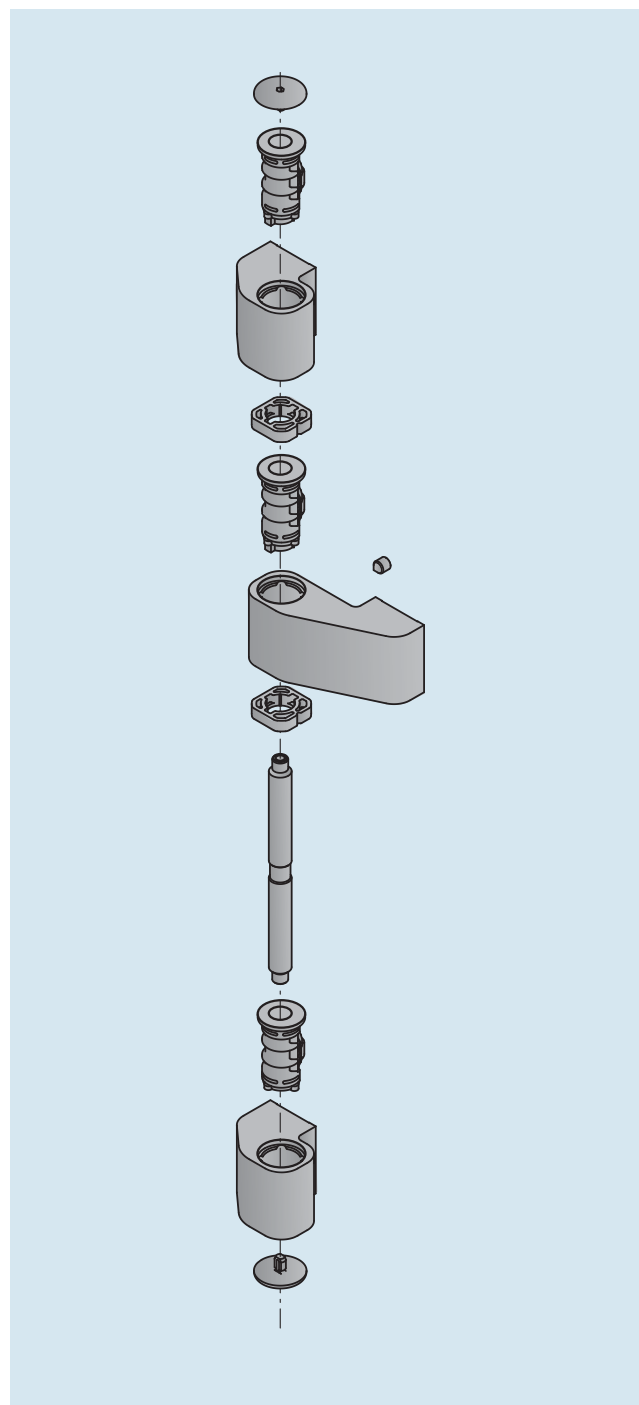
Art.-no.	Material/Surface
04.119.0050.005	Steel, bright

2D aluminium door-hinges for light alloy doors (distance of center of rotation 25/36 mm)

- Adjustment by excentric bush $\pm 1,5$ mm
- Adjustment of shadow flute and pressure without lift-out of door
- Height adjustment by compensation plates
- Right/left usable due to fast backfitting



Aluminium door-hinge, 2-parts



Aluminium door-hinge, 3-parts

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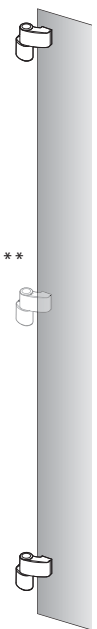
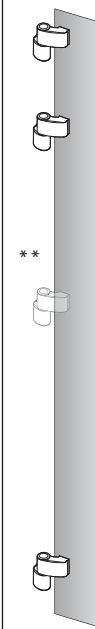
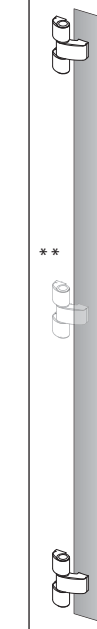
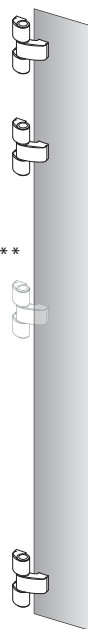
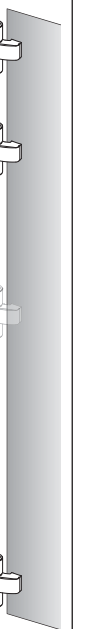
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General suggestions for hinge placement

■ 2D aluminium door-hinges, distance of center of rotation 25/36 mm

Building	EFH*	EFH*	EFH* MFH*	EFH* MFH*	MFH*		Public building School Hospital	Public building School Hospital	Public building School Hospital	Public building School Hospital
Accesso- ries	–	–	–	–	Door closer Automatic mode		–	–	Door closer Door coordinator device Automatic mode	
FB max. mm	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250
Leaf weight max. kg.	75	75	100	100	100	80	100	80	80	80
Recom- mended hinge- quantity	2 pcs. 	3 pcs. 	2 pcs. 	3 pcs. 	3 pcs. 	3 pcs. 			4 pcs. 	
Leaf height min. 2000 / max. 2500 mm										
	**	**	**	**	**	200 mm **			**	

*EFH = Detached house
*MFH = Apartment house

** Additional hinge at leaf middle for leaf heights more than 2000 mm.

The quantity of hinges depends on the following factors: profile system, leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing.

Please follow the guidelines and information of the profile system manufacturer to determine the allowed door sizes and door weights.

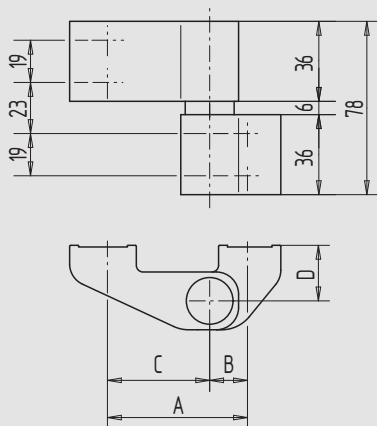
If there are any questions, please contact us.

2D aluminium door-hinge

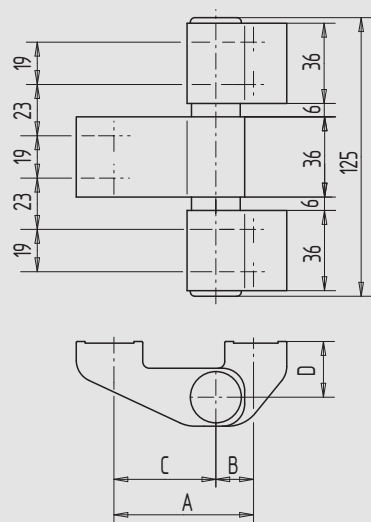
- stepless 2D-adjustable
- right and left hand usable
- screwable/maintenance-free

2-parts

Art.-no.	Center of rotation	Axis-center distance
04.150.2563.---	25	63
04.150.2578.---	25	78
04.150.2592.---	25	92
04.150.3663.---	36	63
04.150.3678.---	36	78
04.150.3692.---	36	92



A	B	C	D
63	17	46	25
63	17	46	36
78	17	61	25
78	17	61	36
92	46	46	25
92	46	46	36



A	B	C	D
63	17	46	25
63	17	46	36
78	17	61	25
78	17	61	36
92	46	46	25
92	46	46	36

3-parts

Art.-no.	Center of rotation	Axis-center distance
04.152.2563.---	25	63
04.152.2578.---	25	78
04.152.2592.---	25	92
04.152.3663.---	36	63
04.152.3678.---	36	78
04.152.3692.---	36	92

Surface codes	Material/Surface
---.114	Aluminium, E6/C-0 anodized
---.154	Aluminium, E6/C-34 anodized
---.198	Aluminium, Stainless Steel effect
---.255	Aluminium, RAL 9016 powder-coated
---.299	Aluminium, special surface

Information

Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.180.0300.705
- fastening screws
Art.-no. 04.170.0017.010

Special

Door hinges also available for profiles with section measurement.

**WSS**

2D aluminium door-hinges

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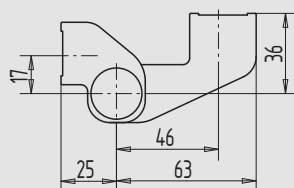
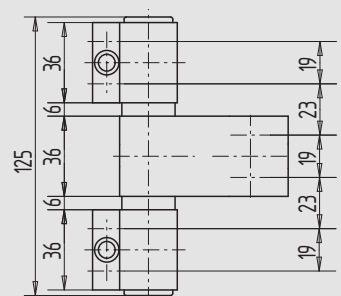
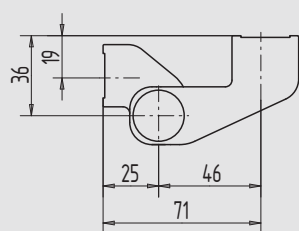
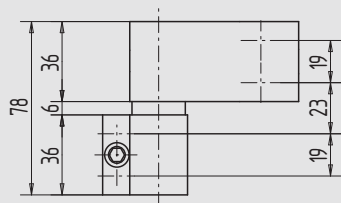
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2D aluminium door-hinge for corner post constructions

- stepless 2D-adjustable
- weight of leaf up to 100 kgs.
- right and left hand usable
- screwable/maintenance-free

2-parts

Art.-no.	Center of rotation	Axis-center distance	Material/Surface
04.154.3671.114	36	71	Aluminium, E6/C-0 anodized
04.154.3671.154	36	71	Aluminium, E6/C-34 anodized
04.154.3671.198	36	71	Aluminium, Stainless Steel effect
04.154.3671.255	36	71	Aluminium, RAL 9016 powder-coated
04.154.3671.299	36	71	Aluminium, special surface

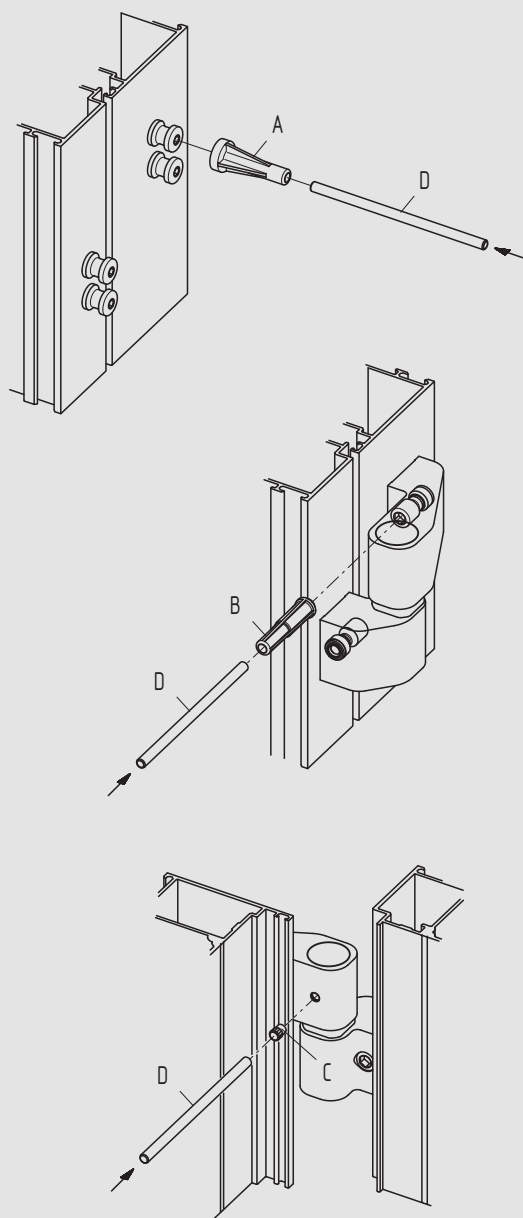
3-parts

Art.-no.	Center of rotation	Axis-center distance	Material/Surface
04.156.3671.114	36	71	Aluminium, E6/C-0 anodized
04.156.3671.154	36	71	Aluminium, E6/C-34 anodized
04.156.3671.198	36	71	Aluminium, Stainless Steel effect
04.156.3671.255	36	71	Aluminium, RAL 9016 powder-coated
04.156.3671.299	36	71	Aluminium, special surface

Information

Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.180.0300.705
- fastening screws
Art.-no. 04.170.0017.010



Security-set for 2D aluminium door-hinge, 2-parts

with:

- 2 magazine cases (A) with 4 pre-assembled mill-plugs for securing of fastening screws
- 1 magazine case (B) with 4 pre-assembled balls for securing of clamp screws
- 2 mill pins (C) for securing of hinge-pin
- 1 assembling pin (D) for hammering of fuses (for 2 aluminium door-hinges)

Art.-no.

04.160.0002.000

Security-set for 2D aluminium door-hinge, 3-parts

with:

- 3 magazine cases (A) with 4 pre-assembled mill-plugs for securing of fastening screws
- 2 magazine cases (B) with 4 pre-assembled balls for securing of clamp screws
- 2 mill pins (C) for securing of hinge-pin
- 1 assembling pin (D) for hammering of fuses (for 2 aluminium door-hinges)

Art.-no.

04.161.0003.000

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**WSS**

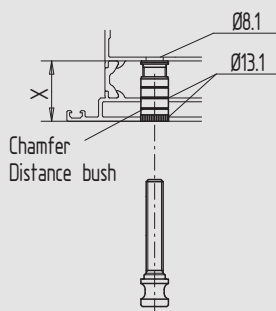
2D aluminium door-hinges

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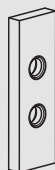


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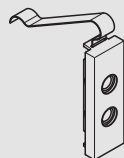


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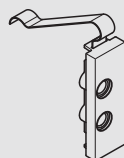


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Fastening screw

- standard
- thread-length = 17 mm

Art.-no.	Material/Surface
04.170.0017.010	Steel, zinc-plated

Distance bush

- with screw
- for outside fastening

Art.-no.	Quantity of chamfers	X	Material/Surface
04.172.1316.010	1	13 - < 16	Steel, zinc-plated
04.172.1623.010	2	16 - < 23	Steel, zinc-plated
04.172.2330.010	3	23 - < 30	Steel, zinc-plated
04.172.3037.010	4	30 - < 37	Steel, zinc-plated
04.172.3744.010	5	37 - < 44	Steel, zinc-plated
04.172.4451.010	6	44 - < 51	Steel, zinc-plated

Counter plate

- centric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.174.0100.010	60 x 20 x 6	Steel, zinc-plated

Counter plate

- excentric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.176.0200.010	60 x 20 x 6	Steel, zinc-plated

Counter plate with spring

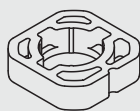
- centric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.180.0300.705	60 x 20 x 12	Zinc Die Casting, raw

Counter plate with spring

- excentric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.182.0400.705	60 x 20 x 12	Zinc Die Casting, raw



PVC compensation shim

- for height-adjustment
- replaceable against adjustment plate, 6 mm thickness

Art.-no.	Thickness	Version	Material/ Surface
04.200.0400.565	4	to leaf sunk	PVC, black
04.200.0500.565	5	to leaf sunk	PVC, black
04.200.0600.565	6	Standard-equipment	PVC, black
04.200.0700.565	7	to leaf lift	PVC, black
04.200.0800.565	8	to leaf lift	PVC, black

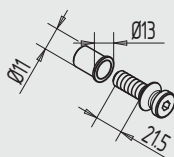


Excentric pin

- 1 mm displaced axis

Art.-no.	Material/Surface
04.202.0100.405	Stainless Steel V2A, bright

Information	For further adjustment of shadow flute and pressure of 2-part door-hinge.
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Fastening unit

- for belated hinge installation to already built-in doors

Art.-no.	Material/Surface
04.204.0100.010	Steel, zinc-plated
04.204.0100.405	Stainless Steel V2A, bright



Reinforce plate

- for 2- and 3-part hinges
- for profile reinforcement

Art.-no.	Material/Surface
04.206.0145.010	Steel, zinc-plated

**WSS**

2D aluminium door-hinges

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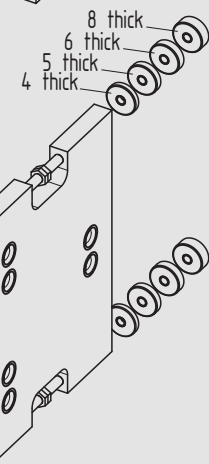
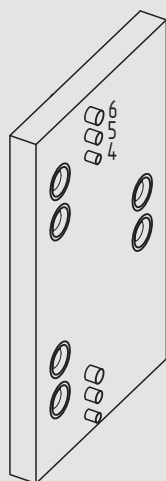
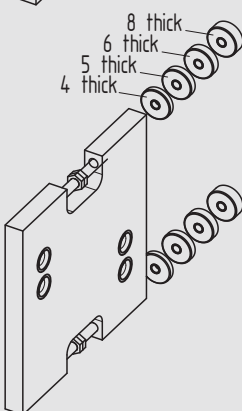
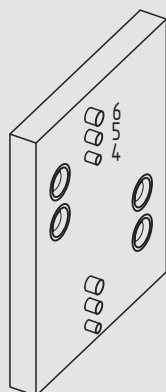
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Drilling template, for 2-part hinges

■ for inward and outward opening doors

Art.-no.	Axis-center distance	Shadow flute	Material/Surface
04.210.0263.105	63	4/5/6	Aluminium, bright
04.210.0278.105	78	4/5/6	Aluminium, bright
04.210.4292.105	92	4/5/6/8	Aluminium, bright

Drilling template, for 3-part hinges

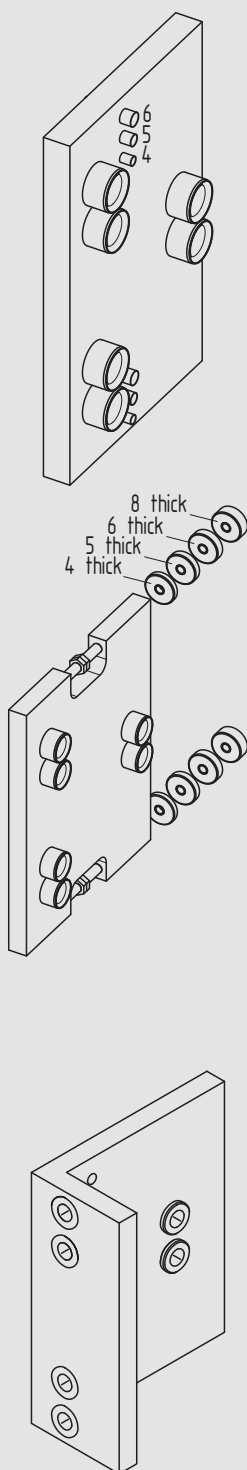
■ for inward and outward opening doors

Art.-no.	Axis-center distance	Shadow flute	Material/Surface
04.212.0363.105	63	4/5/6	Aluminium, bright
04.212.0378.105	78	4/5/6	Aluminium, bright
04.212.4392.105	92	4/5/6/8	Aluminium, bright

Accessories

for inward opening doors:
drill art.-no. 04.228.0050.005

for outward opening doors:
drill art.-no. 04.228.0050.005
pilot counter sink art.-no. 04.230.0060.005



Drilling template, for 2- and 3-part hinges

■ for outward opening doors

Art.-no.	Axis-center distance	Shadow flute	Material/Surface
04.214.0363.105	63	4/5/6	Aluminium, bright
04.214.0378.105	78	4/5/6	Aluminium, bright
04.214.4392.105	92	4	Aluminium, bright
04.214.5392.105	92	5	Aluminium, bright
04.214.6392.105	92	6	Aluminium, bright
04.214.8392.105	92	8	Aluminium, bright

Accessories for outward opening doors:
drill art.-no. 04.232.0070.005

Drilling template for corner post construction

■ for 2- and 3-part door-hinges

Art.-no.	Material/Surface
04.216.0100.105	Aluminium, bright

Accessories for inward opening doors:
drill art.-no. 04.228.0050.005

for outward opening doors:
drill art.-no. 04.228.0050.005
pilot counter sink art.-no. 04.230.0060.005

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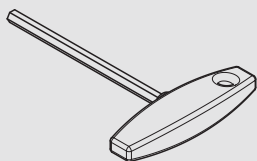
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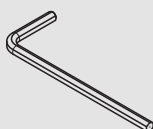
**WSS**

2D aluminium door-hinges

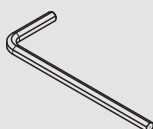
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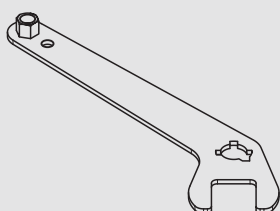


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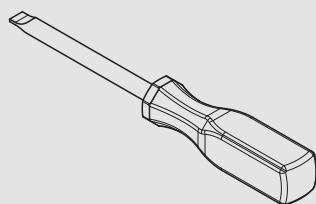
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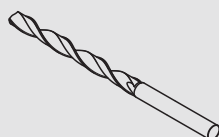


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**Inbus
SW 6**

- for fastening of clamp screw

Art.-no.

04.220.0010.000

**Inbus
SW 3**

- for fastening of hinge axis

Art.-no.

Material/Surface

04.222.0020.005

Steel, bright

**Inbus
SW 5**

- for tightening of fastening screw

Art.-no.

Material/Surface

04.115.0011.005

Steel, bright

Adjustment key

- for hinge-adjustment

Art.-no.

04.224.0030.000

Screw driver

- for length adjustment of distance bushes for outside fastening

Art.-no.

04.226.0040.000

Drill Ø 8,1

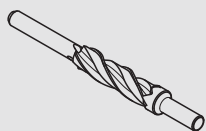
- for drillig templates, inward/outward

Art.-no.

Material/Surface

04.228.0050.005

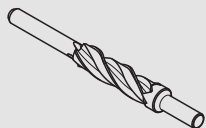
Steel, bright



Spot facer Ø 8,1 auf 13,1

- with pin Ø 8,1, 47 mm long
- for outward opening doors with distance bushes

Art.-no.	Material/Surface
04.230.0060.005	Steel, bright



Step drill Ø 8,1 auf 13,1

- for outward opening doors with distance bushes (only one work-step necessary)

Art.-no.	Material/Surface
04.232.0070.005	Steel, bright



Assembling stick

- for insertion of counter plates

Art.-no.
04.118.0041.000

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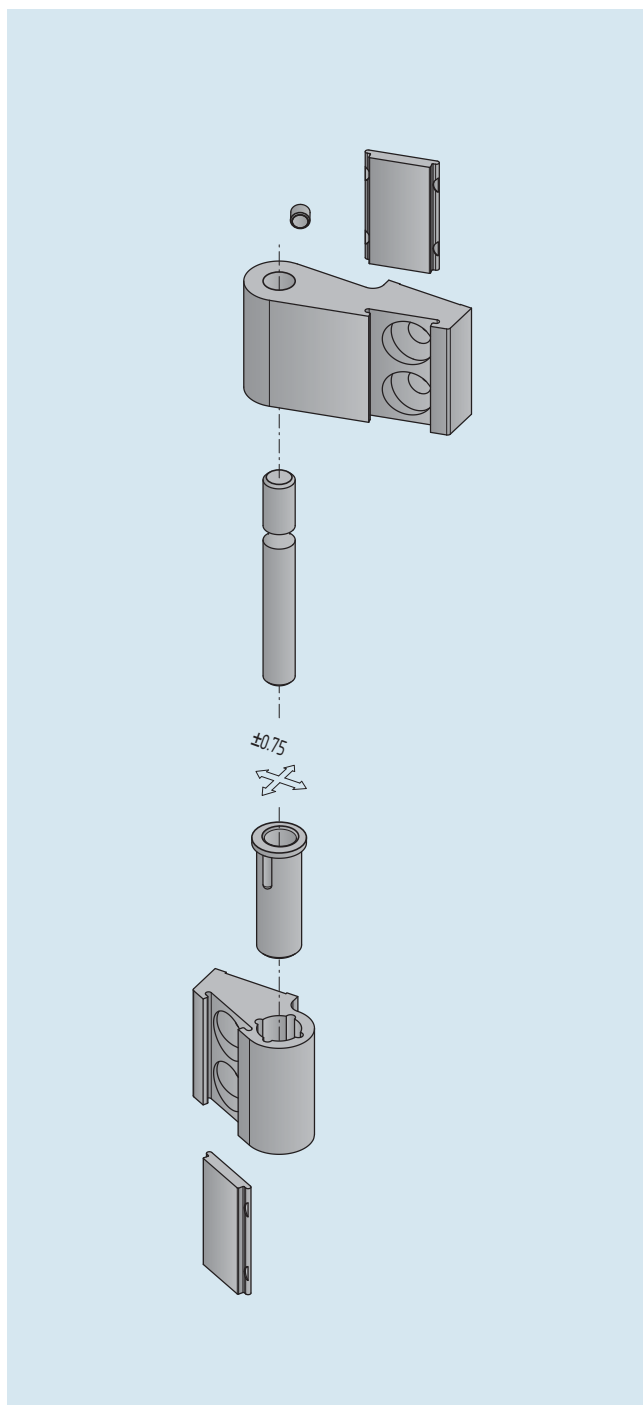
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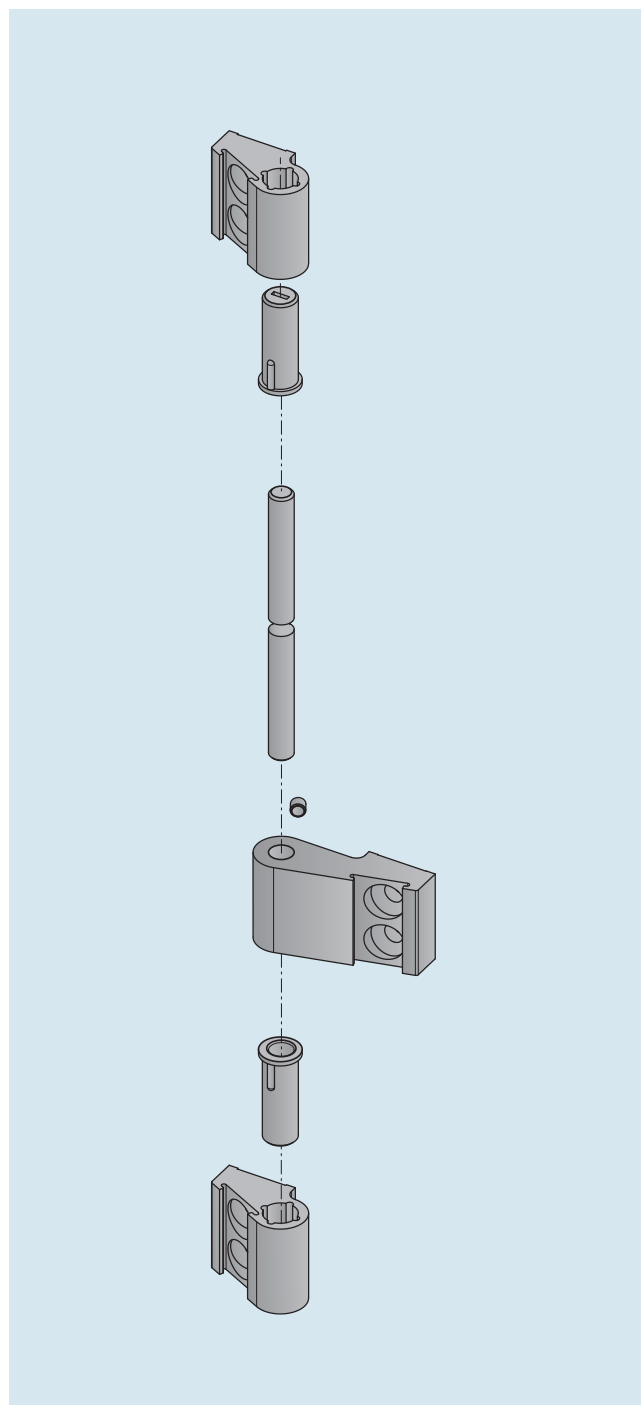
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2D aluminium hinges for light alloy doors (Distance of center of rotation 18 mm)

- Adjustment by excentric bush $\pm 0,75$ mm
- low center of rotation = 18 mm
- Right/left usable due to fast backfitting



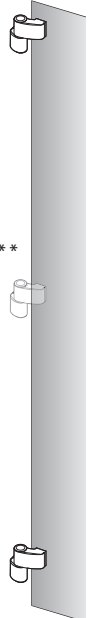
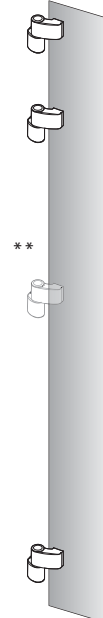
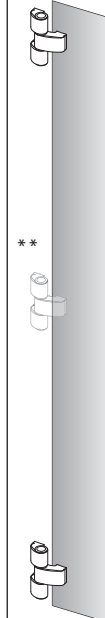
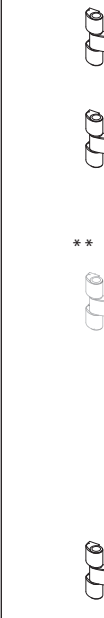
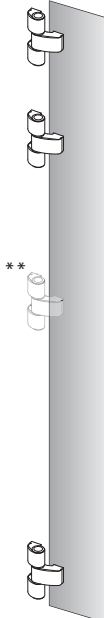
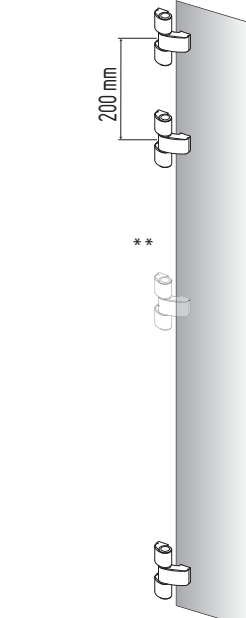
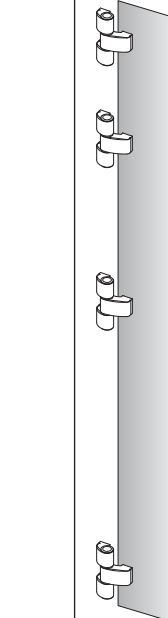
Aluminium door-hinge, 2-parts



Aluminium door-hinge, 3-parts

General suggestions for hinge placement

■ 2D aluminium door-hinges, distance of center of rotation 18 mm

Building	EFH*	EFH*	EFH* MFH*	EFH* MFH*	MFH*		Public building School Hospital	Public building School Hospital	Public building School Hospital	Public building School Hospital
Accesso- ries	–	–	–	–	Door closer Automatic mode		–	–	Door closer Door coordinator device Automatic mode	
FB max. mm	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250
Leaf weight max. kg.	75	75	100	100	100	80	100	80	80	80
Recomm- ended hinge- quantity	2 pcs. 	3 pcs. 	2 pcs. 	3 pcs. 	3 pcs. 	3 pcs. 	3 pcs. 		4 pcs. 	
Leaf height min. 2000 / max. 2500 mm										

*EFH = Detached house

*MFH = Apartment house

** Additional hinge at leaf middle for leaf heights more than 2000 mm.

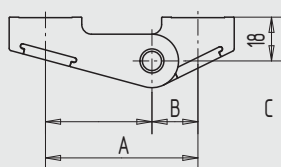
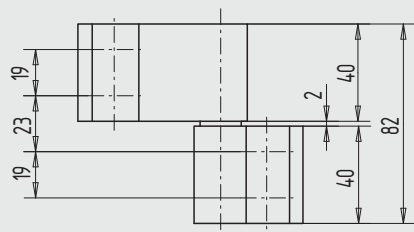
The quantity of hinges depends on the following factors: profile system, leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing.

Please follow the guidelines and information of the profile system manufacturer to determine the allowed door sizes and door weights.

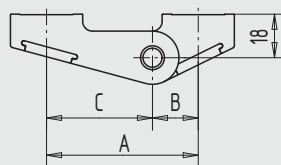
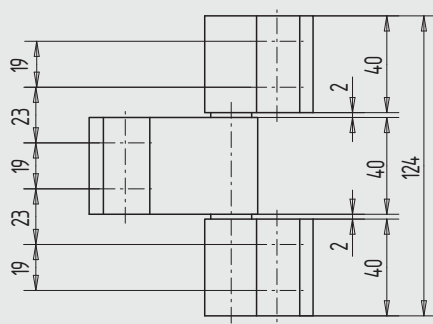
If there are any questions, please contact us.

**WSS**

Aluminium door-hinges



A	B	C
63	19	44
88	44	44



A	B	C
63	19	44
88	44	44

Aluminium door-hinge

- Center of rotation distance = 18 mm
- with covering slider
- right and left hand usable

2-parts

Art.-no.	Axis-center distance	Material/Surface
04.250.1863.114	63	Aluminium, E6/C-0 anodized
04.250.1863.154	63	Aluminium, E6/C-34 anodized
04.250.1863.198	63	Aluminium, Stainless Steel effect
04.250.1863.255	63	Aluminium, RAL 9016 powder-coated
04.250.1863.299	63	Aluminium, special surface
04.250.1888.114	88	Aluminium, E6/C-0 anodized
04.250.1888.154	88	Aluminium, E6/C-34 anodized
04.250.1888.198	88	Aluminium, Stainless Steel effect
04.250.1888.255	88	Aluminium, RAL 9016 powder-coated
04.250.1888.299	88	Aluminium, special surface

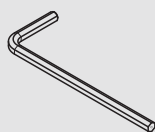
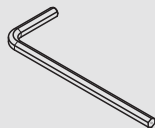
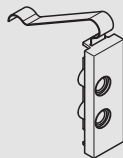
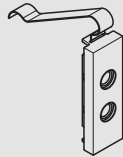
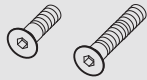
3-parts

Art.-no.	Axis-center distance	Material/Surface
04.252.1863.114	63	Aluminium, E6/C-0 anodized
04.252.1863.154	63	Aluminium, E6/C-34 anodized
04.252.1863.198	63	Aluminium, Stainless Steel effect
04.252.1863.255	63	Aluminium, RAL 9016 powder-coated
04.252.1863.299	63	Aluminium, special surface
04.252.1888.114	88	Aluminium, E6/C-0 anodized
04.252.1888.154	88	Aluminium, E6/C-34 anodized
04.252.1888.198	88	Aluminium, Stainless Steel effect
04.252.1888.255	88	Aluminium, RAL 9016 powder-coated
04.252.1888.299	88	Aluminium, special surface

Information

Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.180.0300.705
- fastening screws
Art.-no. 04.254.0028.010



Fastening screw

Art.-no.	Measurement	Material/Surface
04.254.0028.010	M8 x 28	Steel, zinc-plated
04.254.0050.010	M8 x 50	Steel, zinc-plated

Counter plate

- centric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.174.0100.010	60 x 20 x 6	Steel, zinc-plated

Counter plate

- eccentric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.176.0200.010	60 x 20 x 6	Steel, zinc-plated

Counter plate with spring

- centric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.180.0300.705	60 x 20 x 12	Zinc Die Casting, raw

Counter plate with spring

- eccentric fastening holes

Art.-no.	Admeasurement	Material/Surface
04.182.0400.705	60 x 20 x 12	Zinc Die Casting, raw

Inbus SW 5

- for tightening of fastening screw

Art.-no.	Material/Surface
04.115.0011.005	Steel, bright

Inbus SW 3

- for fixing of hinge axis

Art.-no.	Material/Surface
04.222.0020.005	Steel, bright

**WSS**

Aluminium door-hinges

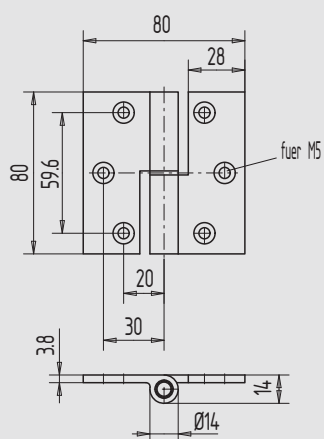
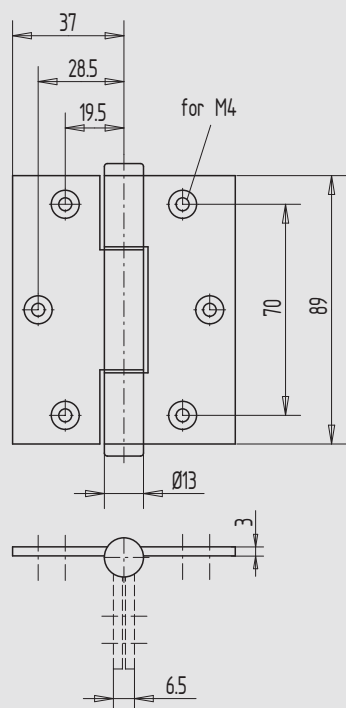
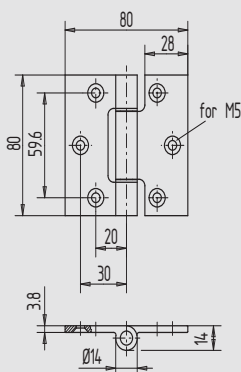


Illustration shows DIN right



Aluminium-hinge

- 3-parts
- with stainless steel pin and nylon intermediate ring
- right and left hand usable

Art.-no.	Material/Surface
04.270.0089.114	Aluminium, E6/C-0 anodized
04.270.0089.154	Aluminium, E6/C-34 anodized
04.270.0089.255	Aluminium, RAL 9016 powder-coated
04.270.0089.299	Aluminium, special surface

Aluminium-hinge

- 2-parts
- with stainless steel pin and nylon intermediate ring

Art.-no.	Direction	Material/Surface
04.272.0080.114	right hand	Aluminium, E6/C-0 anodized
04.272.0080.154	right hand	Aluminium, E6/C-34 anodized
04.272.0080.255	right hand	Aluminium, RAL 9016 powder-coated
04.272.0080.299	right hand	Aluminium, special surface
04.273.0080.114	left hand	Aluminium, E6/C-0 anodized
04.273.0080.154	left hand	Aluminium, E6/C-34 anodized
04.273.0080.255	left hand	Aluminium, RAL 9016 powder-coated
04.273.0080.299	left hand	Aluminium, special surface

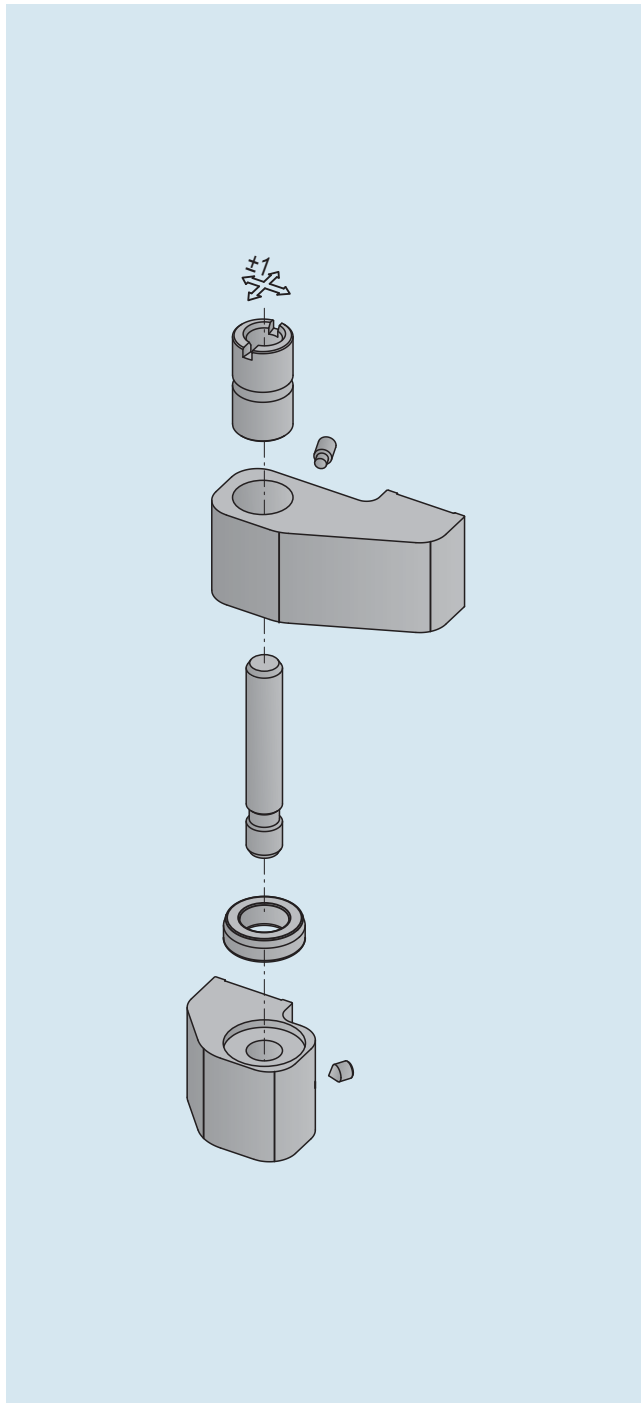
Aluminium-hinge

- 3-parts
- with stainless steel pin and nylon intermediate ring
- right and left hand usable

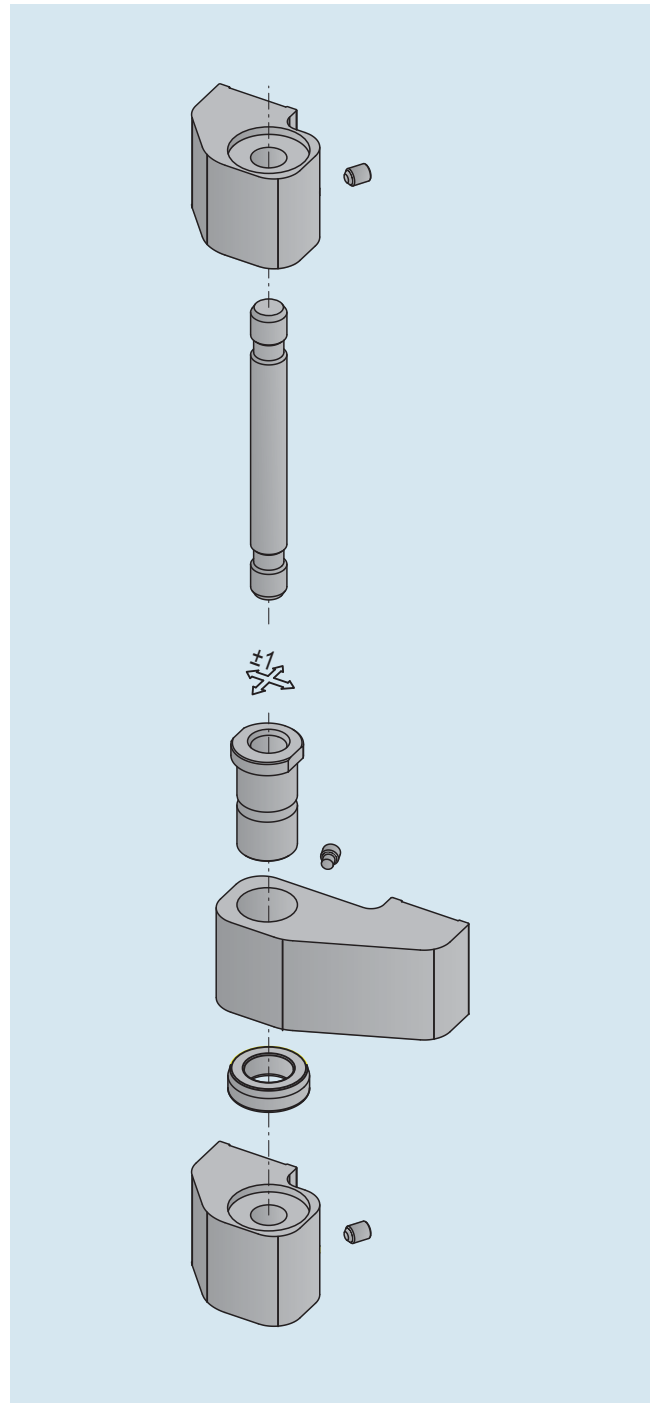
Art.-no.	Material/Surface
04.274.0080.114	Aluminium, E6/C-0 anodized
04.274.0080.154	Aluminium, E6/C-34 anodized
04.274.0080.255	Aluminium, RAL 9016 powder-coated
04.274.0080.299	Aluminium, special surface

Steel/Stainless steel door-hinges (Distance of center of rotation 25/36 mm)

- Adjustment by excentric bush ± 1 mm
- Adjustment of shadow flute and pressure without lift-out the door
- Right/left usable due to fast backfitting



Steel door-hinge, 2-part



Steel door-hinge, 3-part

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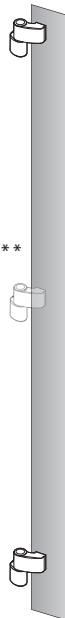
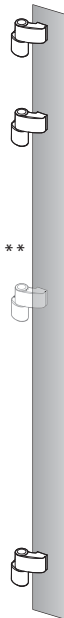
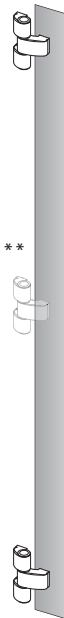
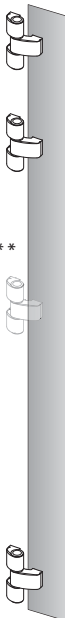
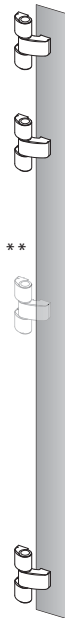
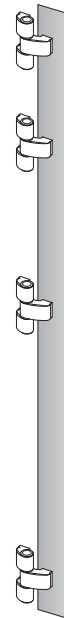
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General suggestions for hinge placement

- Steel door-hinges, distance of center of rotation 25/36 mm
- Stainless steel door-hinges, distance of center of rotation 25 mm

Building	EFH*	EFH*	EFH* MFH*	EFH* MFH*	MFH*		Public building School Hospital	Public building School Hospital	Public building School Hospital	Public building School Hospital
Accesso- ries	–	–	–	–	Door closer Automatic mode		–	–	Door closer Door coordinator device Automatic mode	
FB max. mm	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250
Leaf weight max. kg.	120	120	160	160	160	120	160	120	120	120
Recom- mended hinge- quantity	2 pcs. 	3 pcs. 	2 pcs. 	3 pcs. 		3 pcs. 	3 pcs. 			4 pcs. 
Leaf height min. 2000 / max. 2500 mm										
	**	**	**	**		**	**			**

*EFH = Detached house
*MFH = Apartment house

** Additional hinge at leaf middle for leaf heights more than 2000 mm.

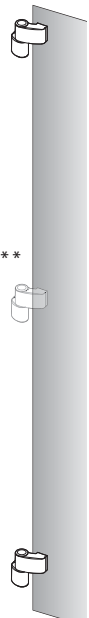
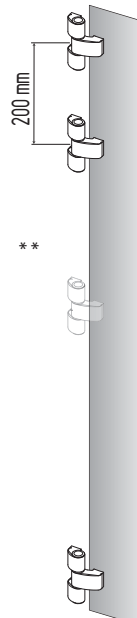
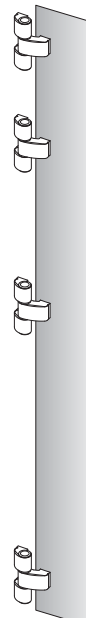
The quantity of hinges depends on the following factors: profile system, leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing.

Please follow the guidelines and information of the profile system manufacturer to determine the allowed door sizes and door weights.

If there are any questions, please contact us.

General suggestions for hinge placement

- Heavy-load door-hinges, distance of center of rotation 25/36 mm
- Heavy-load stainless steel door-hinges, distance of center of rotation 25 mm

Building	EFH* MFH*	EFH* MFH*	MFH*		Public building School Hospital	Public building School Hospital	Public building School Hospital	Public building School Hospital
Accesso- ries	–	–	Door closer Automatic mode		–	–	Door closer Door coordinator device Automatic mode	
FB max. mm	1000	1001-1250	1000	1001-1250	1000	1001-1250	1000	1001-1250
Leaf weight max. kg.	350	350	350	260	350	260	260	260
Recom- mended hinge- quantity	2 pcs. 	3 pcs. 		3 pcs. 	3 pcs. 			4 pcs. 
Leaf height min. 2000 / max. 2500 mm								

*EFH = Detached house
*MFH = Apartment house

** Additional hinge at leaf middle for leaf heights more than 2000 mm.

The quantity of hinges depends on the following factors: profile system, leaf-width, leaf weight, profile thickness, construction of the blind frame, door opening type, usage classification and hinge fixing.

Please follow the guidelines and information of the profile system manufacturer to determine the allowed door sizes and door weights.

If there are any questions, please contact us.

**WSS**

Steel door-hinges

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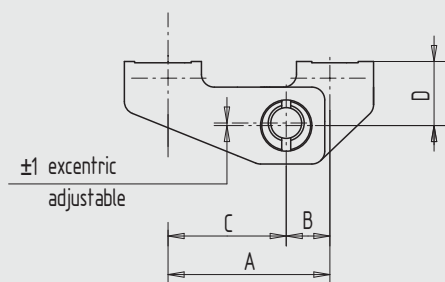
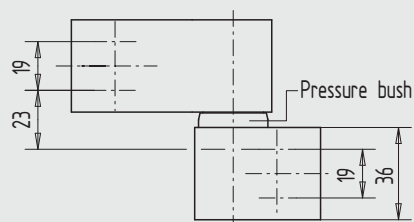
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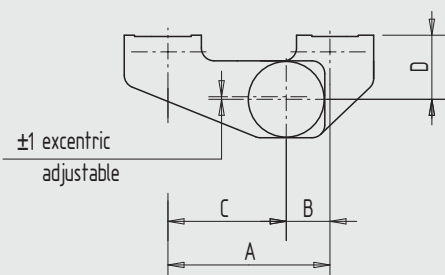
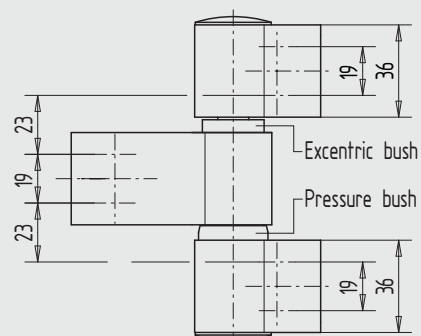
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A	B	C	D
63	17	46	25
63	17	46	36
92	46	46	25
92	46	46	36



A	B	C	D
63	17	46	25
63	17	46	36
92	46	46	25
92	46	46	36

Steel door-hinge

- with fastening material
- right and left hand usable
- MPA-controlled
- adjustable by excentric bush

2-parts



Art.-no.	Center of rotation	Axis-center distance
04.300.2563.010	25	63
04.300.2563.055	25	63
04.300.2563.099	25	63
04.300.2592.010	25	92
04.300.2592.055	25	92
04.300.2592.099	25	92
04.300.3663.010	36	63
04.300.3663.055	36	63
04.300.3663.099	36	63
04.300.3692.010	36	92
04.300.3692.055	36	92
04.300.3692.099	36	92

3-parts



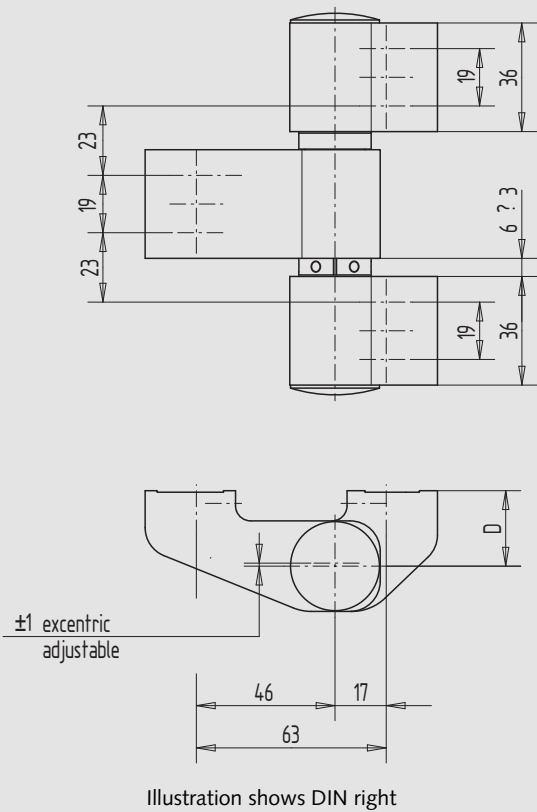
Art.-no.	Center of rotation	Axis-center distance
04.302.2563.---	25	63
04.302.2592.---	25	92
04.302.3663.---	36	63
04.302.3692.---	36	92

Surface codes	Material/Surface
---.010	Steel, zinc-plated
---.055	Steel, RAL 9016 powder-coated
---.099	Steel, special surface

Information Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.350.6030.010
- fastening screws
Art.-no. 04.345.0025.010

Special Door hinges also available for profiles with section measurement.



- ### Heavy-duty steel door-hinge, 3-parts
- with fastening accessories
 - with maintenance-free foil bearing made from teflon-stainless steel webbing
 - with height-adjustment
 - adjustable by excentric bush

Art.-no.	Direction	Center of rotation	Axis-center distance
04.306.2563.---	right hand	25	63
04.306.3663.---	right hand	36	63
04.307.2563.---	left hand	25	63
04.307.3663.---	left hand	36	63

Surface codes	Material/Surface
---.010	Steel, zinc-plated
---.055	Steel, RAL 9016 powder-coated
---.099	Steel, special surface

Information: Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.350.6030.010
- fastening screws
Art.-no. 04.345.0025.010

Information Light alloy cover plates cannot be used due to height adjustment.

**WSS**

Steel door-hinges

1



Fastening screw

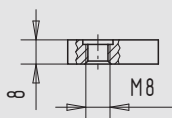
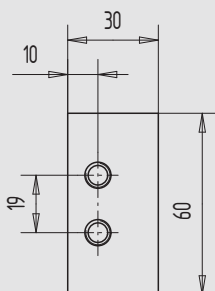
- standard
- 25 mm long

Art.-no.	Material/Surface
04.345.0025.010	Steel, zinc-plated

2

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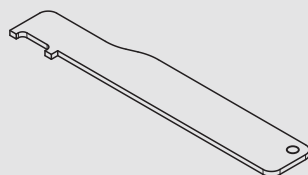
4



Counter plate

Art.-no.	Material/Surface
04.350.6030.010	Steel, zinc-plated

5



Adjustment key

- for hinge-adjustment

Art.-no.	Material/Surface
04.355.0000.405	Stainless Steel V2A, bright

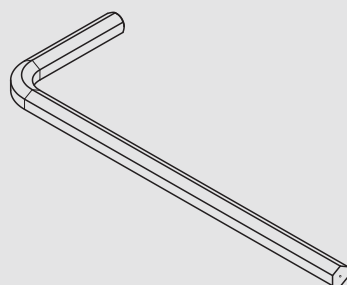
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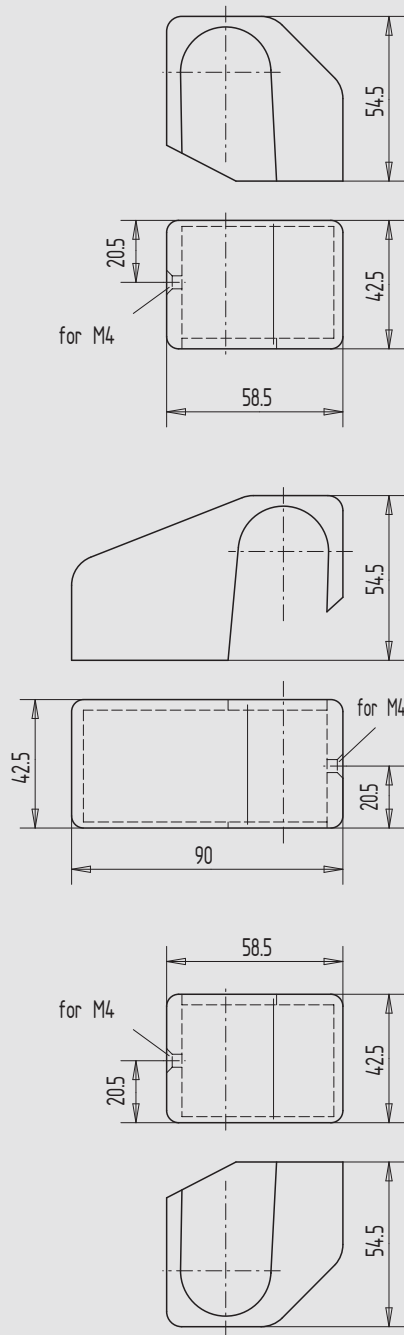
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Internal hexagon key

- for height-adjustment of heavy load steel door-hinges

Art.-no.	Material/Surface
04.356.0000.005	Steel, bright



Aluminium cover-plate, 2-parts

- for steel door-hinges with 36 mm center of rotation

Art.-no.	Direction	Material/Surface
04.360.0042.105	right hand	Aluminium, bright
04.360.0042.230	right hand	Aluminium, silver powder-coated
04.360.0042.255	right hand	Aluminium, RAL 9016 powder-coated
04.360.0042.299	right hand	Aluminium, special surface
04.361.0042.105	left hand	Aluminium, bright
04.361.0042.230	left hand	Aluminium, silver powder-coated
04.361.0042.255	left hand	Aluminium, RAL 9016 powder-coated
04.361.0042.299	left hand	Aluminium, special surface

Aluminium cover-plate, 3-parts

- for steel door-hinges with 36 mm center of rotation
- right and left hand usable

Art.-no.	Material/Surface
04.362.0042.105	Aluminium, bright
04.362.0042.230	Aluminium, silver powder-coated
04.362.0042.255	Aluminium, RAL 9016 powder-coated
04.362.0042.299	Aluminium, special surface

**WSS**

Stainless steel door-hinges

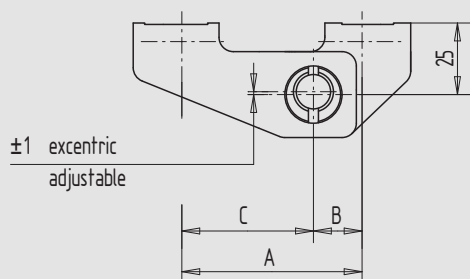
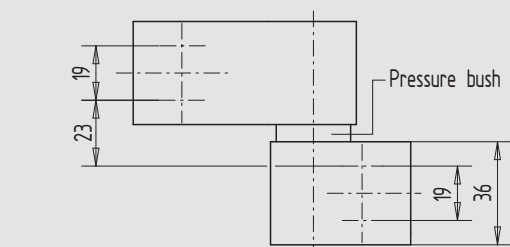
Stainless steel door-hinge

- with fastening material
- right and left hand usable
- MPA-controlled
- adjustable by excentric bush

2-parts



Art.-no.	Center of rotation	Axis-center distance	Material/Surface
04.400.2563.405	25	63	Stainless Steel V2A, bright
04.400.2563.426	25	63	Stainless Steel V2A, matt brushed
04.400.2592.405	25	92	Stainless Steel V2A, bright
04.400.2592.426	25	92	Stainless Steel V2A, matt brushed

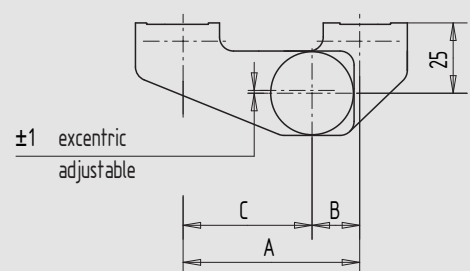
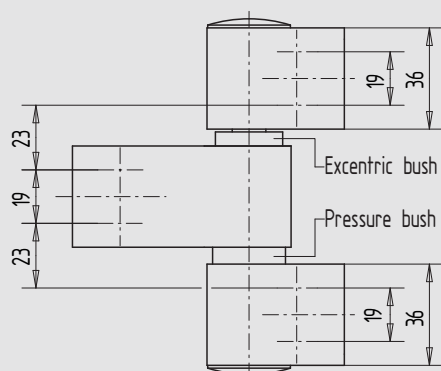


A	B	C
63	17	46
92	46	46

3-parts



Art.-no.	Center of rotation	Axis-center distance	Material/Surface
04.402.2563.405	25	63	Stainless Steel V2A, bright
04.402.2563.426	25	63	Stainless Steel V2A, matt brushed
04.402.2592.405	25	92	Stainless Steel V2A, bright
04.402.2592.426	25	92	Stainless Steel V2A, matt brushed

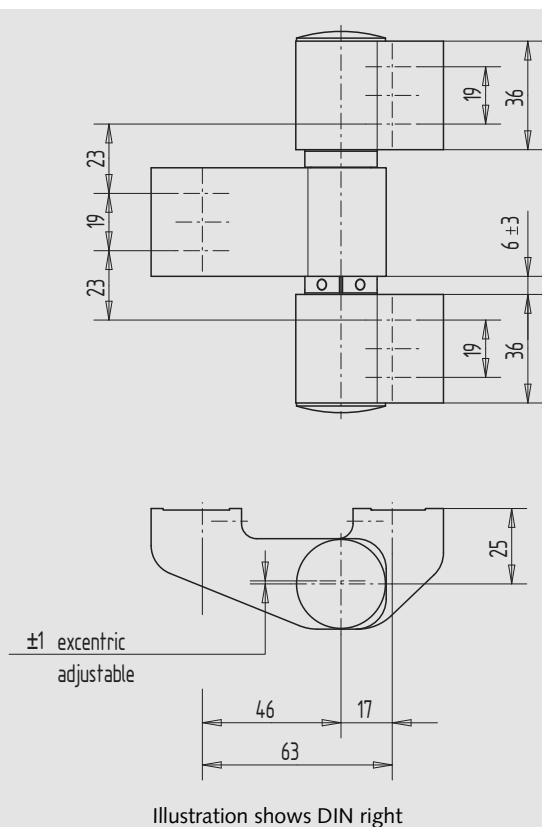


A	B	C
63	17	46
92	46	46

Information

Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.420.6030.405
- fastening screws
Art.-no. 04.415.0025.405



Heavy-duty stainless steel door-hinge, 3-parts

- with fastening accessories
- with maintenance-free foil bearing made from teflon-stainless steel webbing
- with height-adjustment
- adjustable by excentric bush

Art.-no.	Direction	Center of rotation	Axis-center distance	Material/Surface
04.404.2563.405	right hand	25	63	Stainless Steel V2A, bright
04.404.2563.426	right hand	25	63	Stainless Steel V2A, matt brushed
04.405.2563.405	left hand	25	63	Stainless Steel V2A, bright
04.405.2563.426	left hand	25	63	Stainless Steel V2A, matt brushed

Information

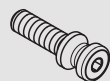
Without any further specifications, WSS supplies the hinges pre-assembled in right handed version and with the following standard-accessories:

- counter plates
Art.-no. 04.420.6030.405
- fastening screws
Art.-no. 04.415.0025.405

**WSS**

Stainless steel door-hinges

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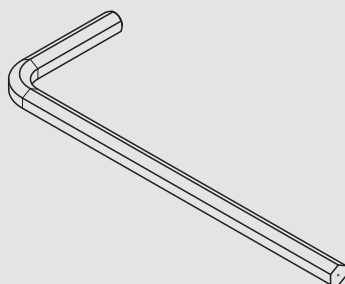
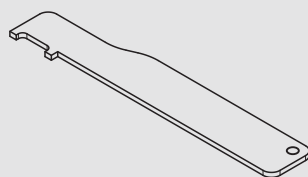
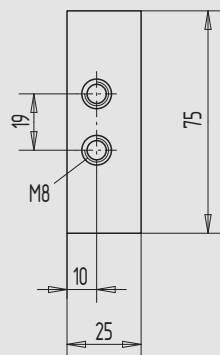
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Fastening screw

- standard
- 25 mm long

Art.-no.	Material/Surface
04.415.0025.405	Stainless Steel V2A, bright

Counter plate

Art.-no.	Material/Surface
04.420.6030.405	Stainless Steel V2A, bright

Adjustment key

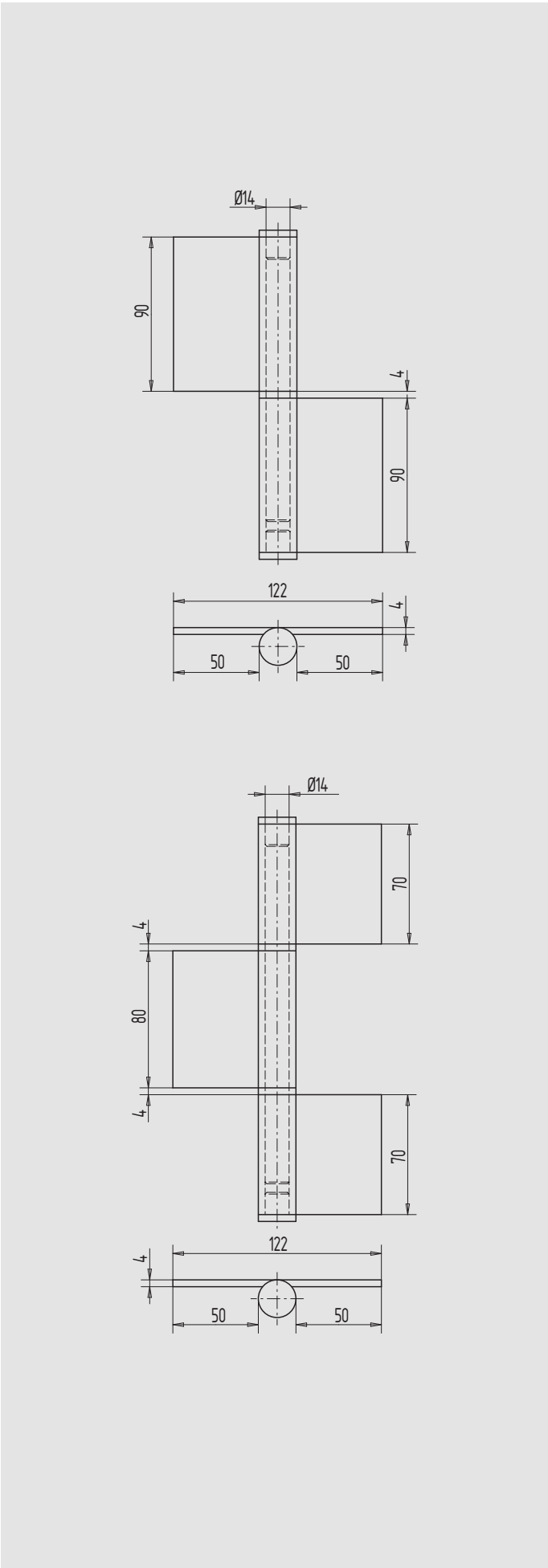
- for hinge-adjustment

Art.-no.	Material/Surface
04.355.0000.405	Stainless Steel V2A, bright

Inbus

- for height-adjustment of heavy load steel door-hinges

Art.-no.	Material/Surface
04.356.0000.005	Steel, bright



Stainless steel construction hinge

- all parts loose
- right and left hand usable
- with stainless steel intermediate ring

2-parts

Art.-no.	Material/Surface
04.450.0184.405	Stainless Steel V2A, bright
04.450.0184.426	Stainless Steel V2A, matt brushed

3-parts

Art.-no.	Material/Surface
04.451.0228.405	Stainless Steel V2A, bright
04.451.0228.426	Stainless Steel V2A, matt brushed

Information

For stainless steel hinges and special hinges we kindly ask for inquiries with detailed drawings and quantity specifications.

**WSS**

Stainless steel door-hinges

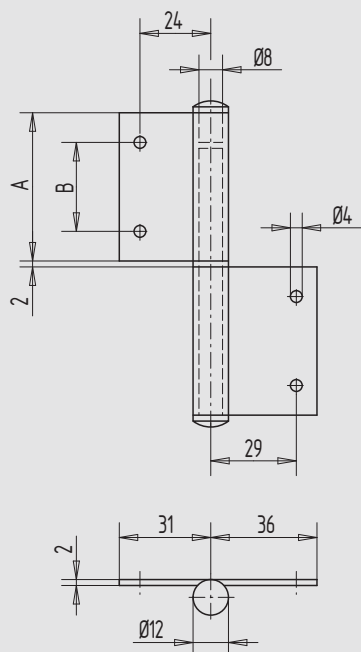


Illustration shows DIN right

A	B	Höhe
50	30	100
60	40	120

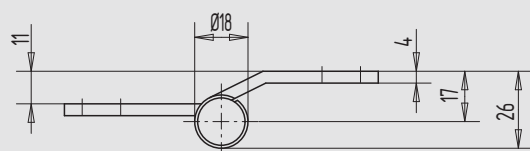
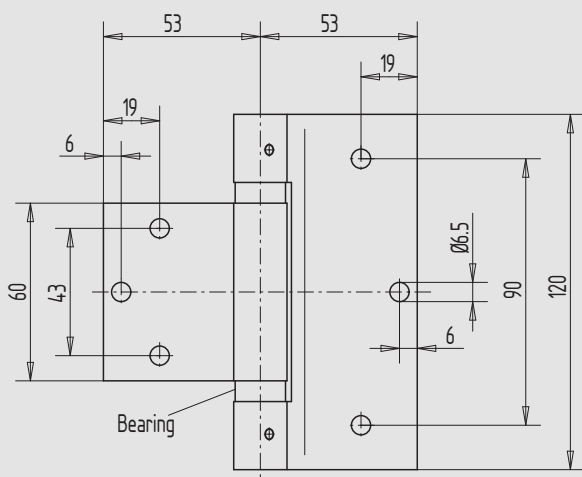


Illustration shows DIN right

Stainless steel construction hinge, 2-parts

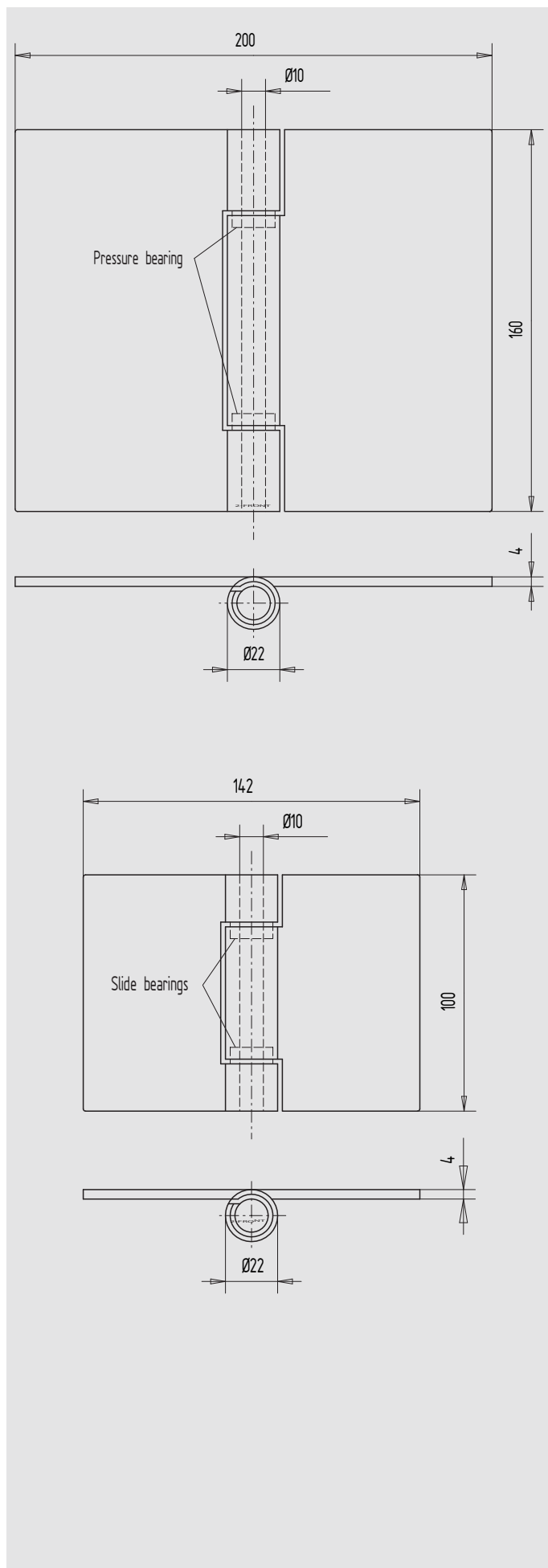
■ stainless steel matt brushed

Art.-no.	Height	Direction	Pin	Fastening holes
04.452.2100.426	100	right and left usable	bulk	with
04.452.2120.426	120	right and left usable	bulk	with
04.452.6100.426	100	right and left usable	bulk	without
04.452.6120.426	120	right and left usable	bulk	without

Stainless steel door-hinge, 3-parts

■ with bearing

Art.-no.	Direction	Material/Surface
04.470.0120.426	right hand	Stainless Steel V2A, matt brushed
04.471.1120.426	left hand	Stainless Steel V2A, matt brushed



Stainless steel door-hinge, 3-parts

- right and left hand usable

Art.-no.	Material/Surface
04.472.0160.426	Stainless Steel V2A, matt brushed

Special	Lugs with screwing holes.
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Stainless steel door-hinge, 3-parts

- right and left hand usable

Art.-no.	Material/Surface
04.473.0100.426	Stainless Steel V2A, matt brushed

Special	Lugs with screwing holes.
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**WSS**

Stainless steel door-hinges

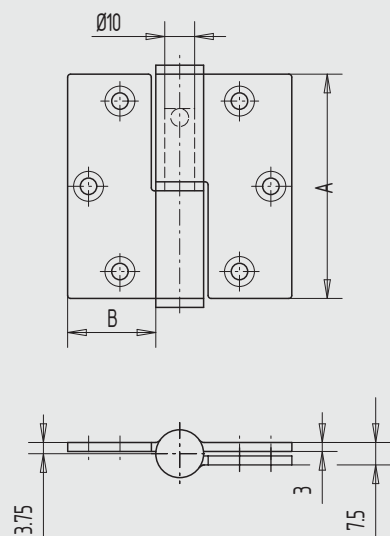


Illustration shows right handed version

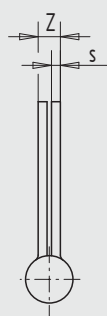
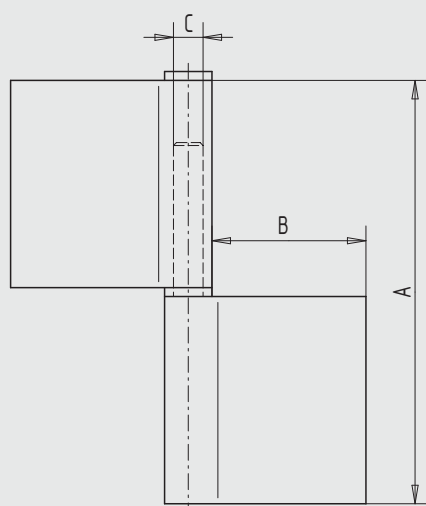


Illustration shows right handed version

Stainless steel door-hinge, 2-parts

- with oil-chamber-steel-ball
- stainless steel matt brushed

Art.-no.	A	B	Quantity of fastening holes	Direction
04.474.0075.426	75	30,0	6	right hand
04.475.0075.426	75	30,0	6	left hand
04.474.0090.426	90	37,5	8	right hand
04.475.0090.426	90	37,5	8	left hand
04.474.0100.426	100	42,5	8	right hand
04.475.0100.426	100	42,5	8	left hand

Stainless steel door-hinge, 2-parts

- with loose pin and oil-chamber-steel-ball
- stainless steel matt brushed

Art.-no.	A	B	C	S	Z	Direction
04.476.0140.426	140	60	10	3	6	right and left usable
04.476.0160.426	160	60	10	3	6	right and left usable
04.476.2140.426	140	50	14	4	8	right and left usable
04.476.2160.426	160	60	14	4	8	right and left usable
04.476.0180.426	180	70	14	4	8	right and left usable
04.476.0200.426	200	80	14	4	8	right and left usable

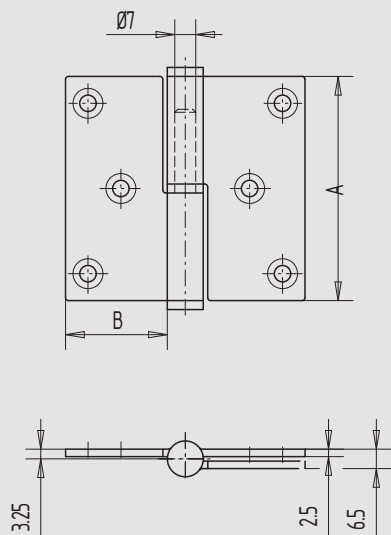


Illustration shows right handed version

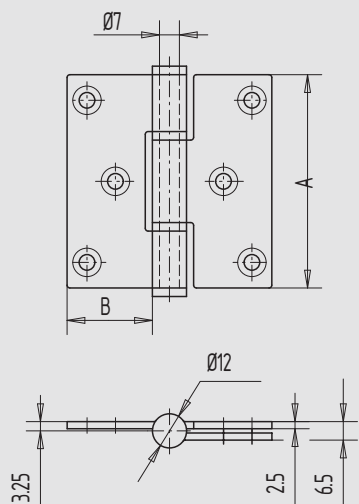


Illustration shows right handed version

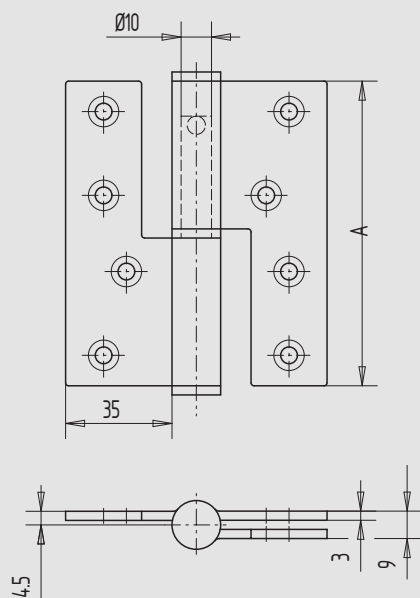


Illustration shows right handed version

Stainless steel door-hinge, 2-parts

- with fixed pin and oil-chamber-steel-ball
- stainless steel matt brushed

Art.-no.	A	B	Quantity of fastening holes	Direction
04.478.0075.426	75	29,0	6	right hand
04.479.0075.426	75	29,0	6	left hand
04.478.0090.426	90	36,5	8	right hand
04.479.0090.426	90	36,5	8	left hand
04.478.0100.426	100	40,0	8	right hand
04.479.0100.426	100	40,0	8	left hand

Stainless steel door-hinge, 3-parts

- with loose pin and oil-chamber-steel-ball
- stainless steel matt brushed

Art.-no.	A	B	Fastening holes	Direction
04.480.0075.426	75	29,0	with	right hand
04.481.0075.426	75	29,0	with	left hand
04.480.0090.426	90	36,5	with	right hand
04.481.0090.426	90	36,5	with	left hand
04.480.1075.426	75	29,0	without	right hand
04.481.1075.426	75	29,0	without	left hand
04.480.1090.426	90	36,5	without	right hand
04.481.1090.426	90	36,5	without	left hand

Information Also without screwing holes available.

Stainless steel door-hinge, 2-parts

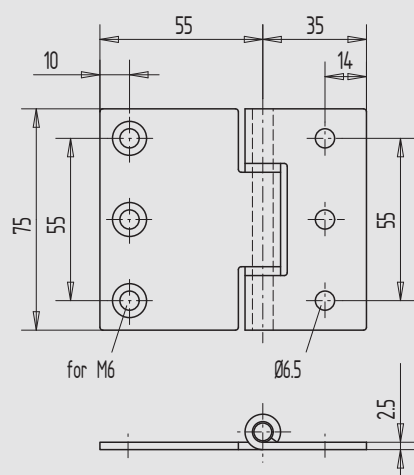
- with screwing holes

Art.-no.	A	Direction	Material/Surface
04.490.0100.426	100	right hand	Stainless Steel V2A, matt brushed
04.491.0100.426	100	left hand	Stainless Steel V2A, matt brushed
04.490.0120.426	120	right hand	Stainless Steel V2A, matt brushed
04.491.0120.426	120	left hand	Stainless Steel V2A, matt brushed
04.490.0140.426	140	right hand	Stainless Steel V2A, matt brushed
04.491.0140.426	140	left hand	Stainless Steel V2A, matt brushed
04.490.0160.426	160	right hand	Stainless Steel V2A, matt brushed
04.491.0160.426	160	left hand	Stainless Steel V2A, matt brushed



WSS

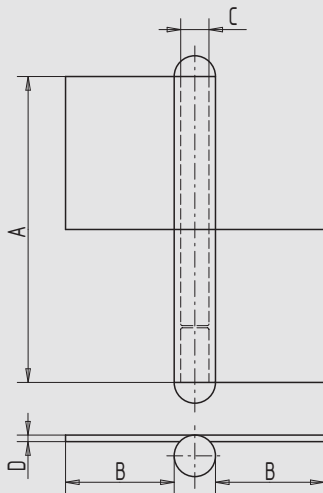
Stainless steel door-hinges



Stainless steel door-hinge, 3-parts

■ right and left hand usable

Art.-no.	Fastening holes	Material/Surface
04.494.0075.405	with	Stainless Steel V2A, bright
04.494.1075.405	without	Stainless Steel V2A, bright

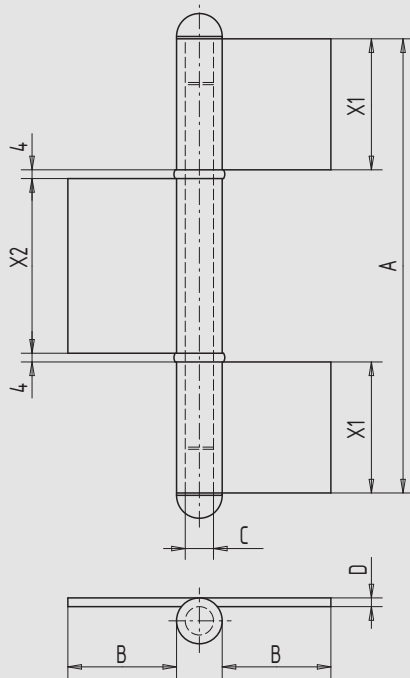


Construction hinge, 2-parts

- loose pin
- right and left hand usable

Art.-no.	A	C	D	B
04.500.0140.---	140	13	3	50
04.500.0160.---	160	13	3	50
04.500.2160.---	160	16	4	50
04.500.3160.---	160	16	5	50
04.500.0180.---	180	14	4	50
04.500.1180.---	180	14	4	10
04.500.2180.---	180	16	4	50
04.500.3180.---	180	16	5	50
04.500.0200.---	200	16	5	50
04.500.1200.---	200	20	6	50

Surface codes	Material/Surface
---.005	Steel, bright
---.010	Steel, zinc-plated
---.405	Stainless Steel V2A, bright
---.426	Stainless Steel V2A, matt brushed
Special	Special hinges for fire-resistant doors acc. to DIN 18082 also available.



Construction hinge, 3-parts

- loose pin
- right and left hand usable

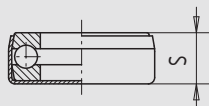
Art.-no.	A	B	C	D
04.501.0200.---	200	50	12	4
04.501.0220.---	220	50	14	4
04.501.0240.---	240	50	16	4
04.501.1240.---	240	50	16	5
04.501.0260.---	260	50	16	5
04.501.1260.---	260	50	20	6
04.501.0300.---	300	50	20	6

Surface codes	Material/Surface
---.005	Steel, bright
---.010	Steel, zinc-plated
---.405	Stainless Steel V2A, bright
---.426	Stainless Steel V2A, matt brushed

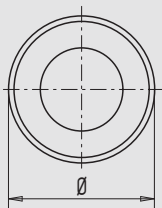
A	X1	X2
200	60	80
220	70	80
240	70	100
240	70	100
260	80	100
260	80	100
300	90	120



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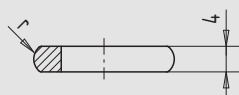


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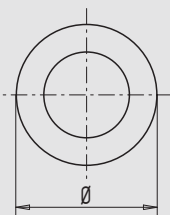


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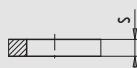
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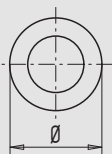
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Axial-bearing ring

■ axial

Art.-no.	for Ø-Pin	Ø	S	Load rating Stat. Kp	Material/ Surface
04.520.0013.010	13 mm	22	8	260	Steel, zinc-plated
04.520.1013.405	13 mm	22	8	195	Stainless Steel V2A, bright
04.520.0014.010	14 mm	25	8,5	300	Steel, zinc-plated
04.520.1014.405	14 mm	25	8,5	225	Stainless Steel V2A, bright
04.520.0016.010	16 mm	27	9	350	Steel, zinc-plated
04.520.1016.405	16 mm	27	9	260	Stainless Steel V2A, bright
04.520.0020.010	20 mm	33	10	600	Steel, zinc-plated
04.520.0022.010	22 mm	43	12	850	Steel, zinc-plated
04.520.0026.010	26 mm	43	12	850	Steel, zinc-plated

Steel-/Brass intermediate ring

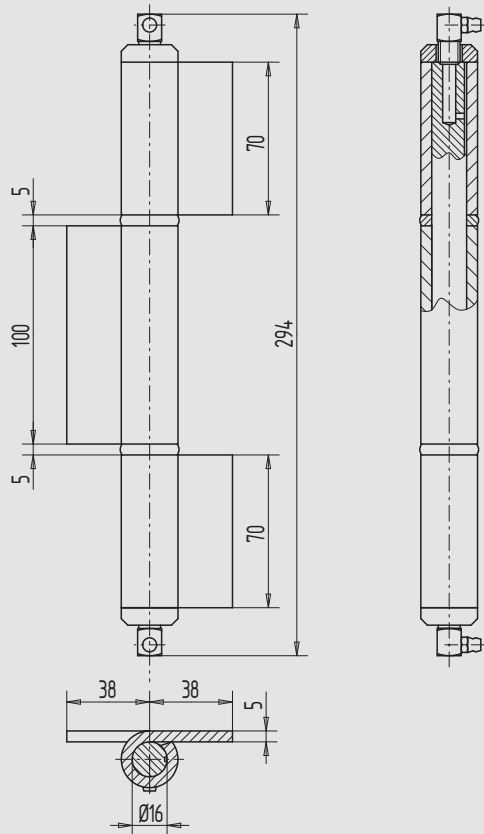
■ rounded

Art.-no.	for Ø-Pin	Ø	Material/ Surface
04.521.0013.010	13 mm	21	Steel, zinc-plated
04.521.0013.305	13 mm	21	Brass, bright
04.521.0014.010	14 mm	22	Steel, zinc-plated
04.521.0014.305	14 mm	22	Brass, bright
04.521.0016.010	16 mm	29	Steel, zinc-plated
04.521.0016.305	16 mm	29	Brass, bright
04.521.0020.010	20 mm	34	Steel, zinc-plated
04.521.0020.305	20 mm	34	Brass, bright

Brass intermediate ring

■ stamped

Art.-no.	for Ø-Pin	Ø	S	Material/ Surface
04.522.0005.305	5 mm	8	1,5	Brass, bright
04.522.0006.305	6 mm	10	1,7	Brass, bright
04.522.0007.305	7 mm	13	1,8	Brass, bright
04.522.0008.305	8 mm	13	1,8	Brass, bright
04.522.0009.305	9 mm	16	2,2	Brass, bright
04.522.0010.305	10 mm	16	2,2	Brass, bright
04.522.0011.305	11 mm	20	2,2	Brass, bright
04.522.0012.305	12 mm	20	2,7	Brass, bright

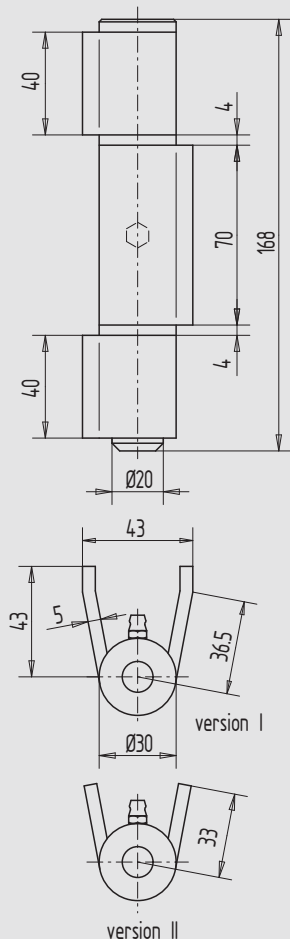


Construction hinge for steel gates, 3-parts

- with grease nipple and oil groove
- with brass intermediate rings
- hinge roles welded

Art.-no.	Direction	Material/Surface
04.530.0240.005	right hand	Steel, bright
04.530.0240.010	right hand	Steel, zinc-plated
04.531.0240.005	left hand	Steel, bright
04.531.0240.010	left hand	Steel, zinc-plated

Special For high quantities also with dimensions 260/20/6 and 300/20/6 mm available.



Construction hinge, 3-parts

- with grease nipple and oil groove
- with brass intermediate rings
- right and left hand usable

Art.-no.	Length of lug	Version	Material/Surface
04.540.0158.005	43	I	Steel, bright
04.540.0158.010	43	I	Steel, zinc-plated
04.540.1158.005	30	II	Steel, bright
04.540.1158.010	30	II	Steel, zinc-plated

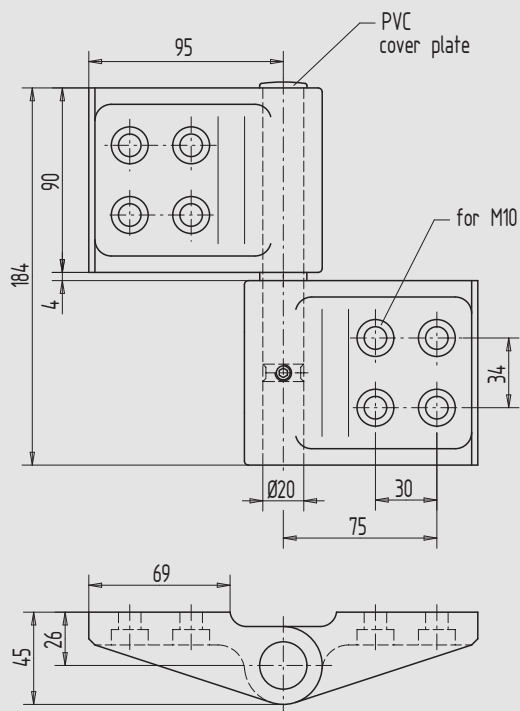
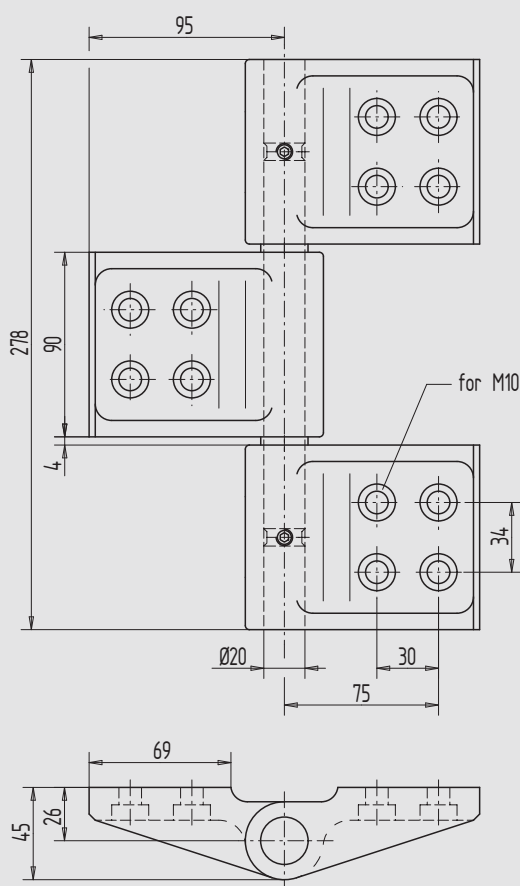


Illustration shows right handed version



Construction hinge, 2-parts

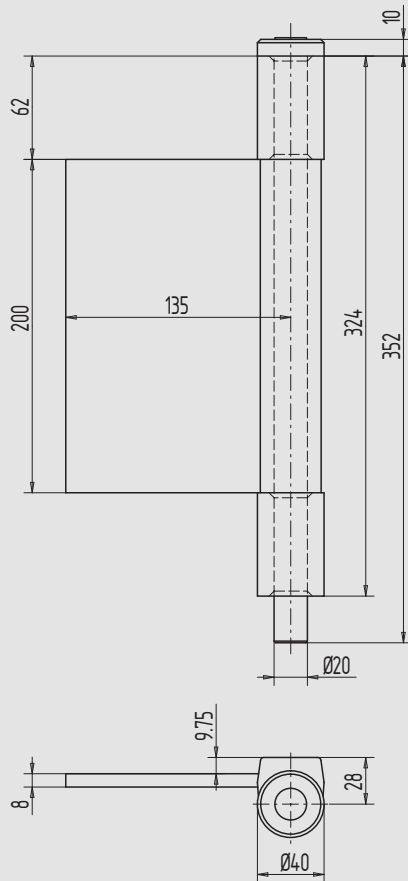
- hinge lugs drop-forged
- self-greasing DU-bushes
- beared

Art.-no.	Direction	Material/Surface
04.541.0164.005	right hand	Steel, bright
04.541.0164.010	right hand	Steel, zinc-plated
04.541.1164.005	left hand	Steel, bright
04.541.1164.010	left hand	Steel, zinc-plated

Construction hinge, 3-parts

- hinge lugs drop-forged
- self-greasing bushes
- beared

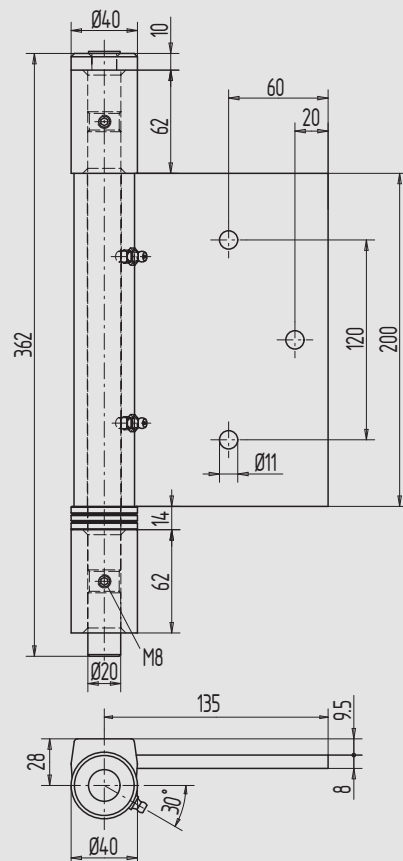
Art.-no.	Material/Surface
04.542.0280.005	Steel, bright
04.542.0280.010	Steel, zinc-plated



Construction hinge, 3-parts, heavy-duty version

- hinge bearing, on top and bottom drop-forged
- hinge lugs centric rolled

Art.-no.	Material/Surface
04.543.0362.005	Steel, bright
04.543.0362.010	Steel, zinc-plated



Construction hinge, 3-parts, special heavy-duty version

- hinge bearing, top and bottom drop-forged
- hinge lugs centric rolled and additionally welded
- with special bearing and grease nipple
- max. load 600 kg. with 2 hinges and a leaf size of max. width 1470 x height 3200 mm

Art.-no.	Material/Surface
04.544.0362.005	Steel, bright
04.544.0362.010	Steel, zinc-plated

**WSS**

Weld-on hinges

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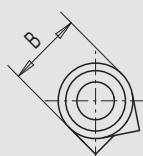
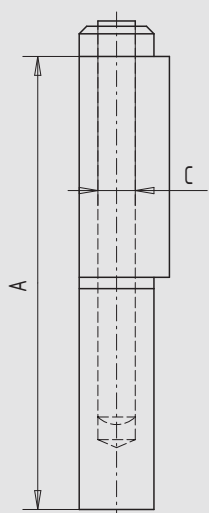
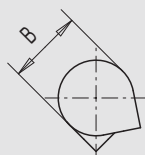
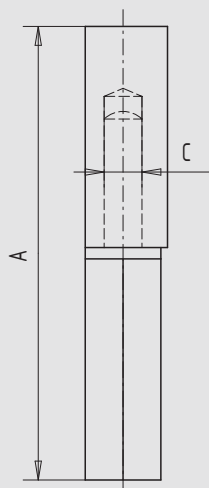
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Weld-on hinge, 2-parts, fixed pin

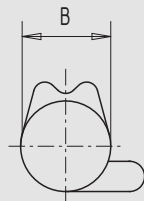
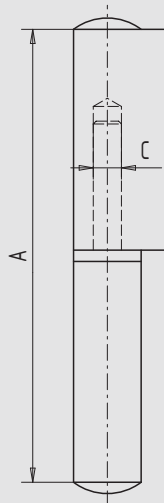
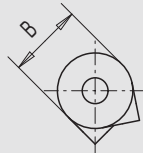
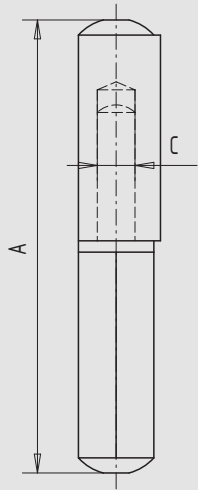
- steel-profile material, blank
- top and bottom flush cut
- with brass intermediate ring

Art.-no.	A	B	C	Pin
04.610.0045.005	45	9	5	Iron pin
04.610.1045.005	45	9	5	Brass pin
04.610.0060.005	60	10	5	Iron pin
04.610.1060.005	60	10	5	Brass pin
04.610.0080.005	80	13	7	Iron pin
04.610.1080.005	80	13	7	Brass pin
04.610.0100.005	100	16	9	Iron pin
04.610.1100.005	100	16	9	Brass pin
04.610.0120.005	120	16	9	Iron pin
04.610.1120.005	120	16	9	Brass pin
04.610.0140.005	140	20	11	Iron pin
04.610.1140.005	140	20	11	Brass pin
04.610.0160.005	160	20	12	Iron pin
04.610.1160.005	160	20	12	Brass pin
04.610.0180.005	180	22	14	Iron pin
04.610.1180.005	180	22	14	Brass pin

Weld-on hinge, 2-parts, loose pin

- steel-profile material, blank
- top and bottom flush cut
- with brass intermediate ring

Art.-no.	A	B	C	Pin
04.611.0045.005	45	9	5	Iron pin
04.611.1045.005	45	9	5	Brass pin
04.611.0060.005	60	10	5	Iron pin
04.611.1060.005	60	10	5	Brass pin
04.611.0080.005	80	13	7	Iron pin
04.611.1080.005	80	13	7	Brass pin
04.611.0100.005	100	16	9	Iron pin
04.611.1100.005	100	16	9	Brass pin
04.611.0120.005	120	16	9	Iron pin
04.611.1120.005	120	16	9	Brass pin
04.611.0140.005	140	20	11	Iron pin
04.611.1140.005	140	20	11	Brass pin
04.611.0160.005	160	20	12	Iron pin
04.611.1160.005	160	20	12	Brass pin
04.611.0180.005	180	22	14	Iron pin
04.611.1180.005	180	22	14	Brass pin



Weld-on hinge, 2-parts, fixed pin

- steel-profile material, blank
- with spherical heads
- with brass intermediate ring

Art.-no.	A	B	C	Pin
04.612.0045.005	45	9	5	Iron pin
04.612.1045.005	45	9	5	Brass pin
04.612.0060.005	60	10	6	Iron pin
04.612.1060.005	60	10	6	Brass pin
04.612.0080.005	80	13	8	Iron pin
04.612.1080.005	80	13	8	Brass pin
04.612.0100.005	100	16	9	Iron pin
04.612.1100.005	100	16	9	Brass pin
04.612.0120.005	120	16	11	Iron pin
04.612.1120.005	120	16	11	Brass pin
04.612.0140.005	140	20	12	Iron pin
04.612.1140.005	140	20	12	Brass pin
04.612.0160.005	160	20	12	Iron pin
04.612.1160.005	160	20	12	Brass pin
04.612.0180.005	180	20	14	Iron pin
04.612.1180.005	180	20	14	Brass pin

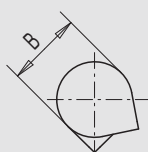
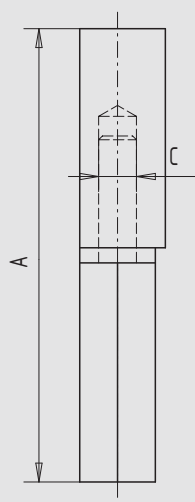
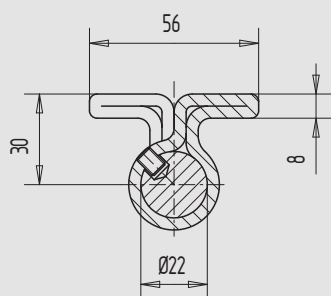
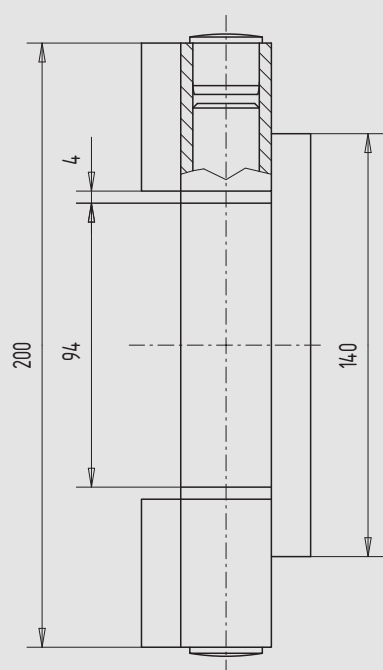
Weld-on hinge, 2-parts

- steel-profile material, zinc-plated
- right and left hand usable

Art.-no.	A	B	Version
04.620.0080.010	80	12	MS-Ring (WB65)
04.620.0130.010	130	17	MS-Ring (WB70)
04.620.0135.010	135	17	Bearing (WB70V)

**WSS**

Weld-on hinges



Weld-on hinge, 3-parts

- steel-profile material, zinc-plated
- with brass intermediate rings

Art.-no.	Material/Surface
04.621.0200.010	Steel, zinc-plated

Stainless steel weld-on hinge, 2-parts, fixed pin

- profile material
- top and bottom flush cut

Art.-no.	A	B	C	Material/ Surface
04.630.0060.405	60	10	5	Stainless Steel V2A, bright
04.630.0080.405	80	13	7	Stainless Steel V2A, bright
04.630.0100.405	100	16	9	Stainless Steel V2A, bright
04.630.0120.405	120	16	9	Stainless Steel V2A, bright
04.630.0150.405	150	20	13	Stainless Steel V2A, bright
04.630.0180.405	180	20	13	Stainless Steel V2A, bright

Stainless steel weld-on hinge, 2-parts, fixed pin

- profile material
- with spherical heads

Art.-no.	A	B	C	Material/ Surface
04.631.0060.405	60	10	6	Stainless Steel V2A, bright
04.631.0080.405	80	13	8	Stainless Steel V2A, bright
04.631.0100.405	100	16	10	Stainless Steel V2A, bright
04.631.0120.405	120	16	10	Stainless Steel V2A, bright
04.631.0150.405	150	20	13	Stainless Steel V2A, bright
04.631.0180.405	180	20	13	Stainless Steel V2A, bright

Weld-on hinge, top

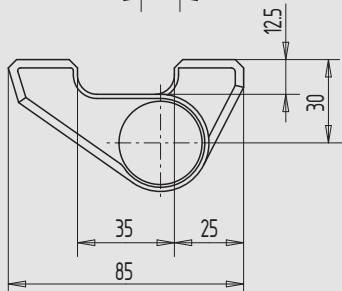
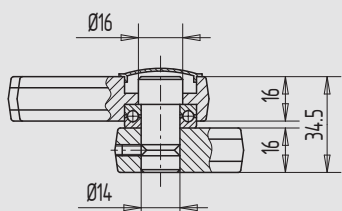
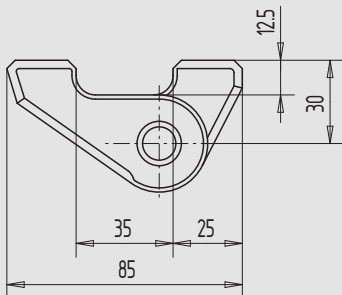
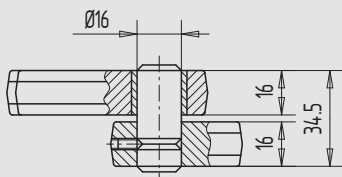
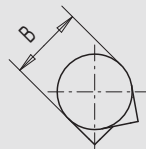
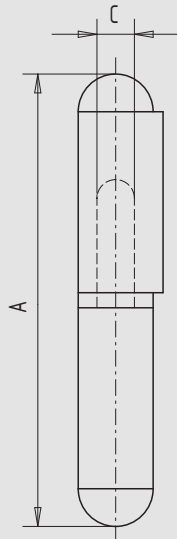
- with bronze bush
- right and left hand usable

Art.-no.	Bolt	Material/Surface
04.650.0030.005	Steel blank	Steel, bright
04.650.0031.010	Steel zinc plated	Steel, zinc-plated
04.650.0032.005	Stainless steel	Steel, bright
04.650.0032.010	Stainless steel	Steel, zinc-plated

Weld-on hinge, bottom

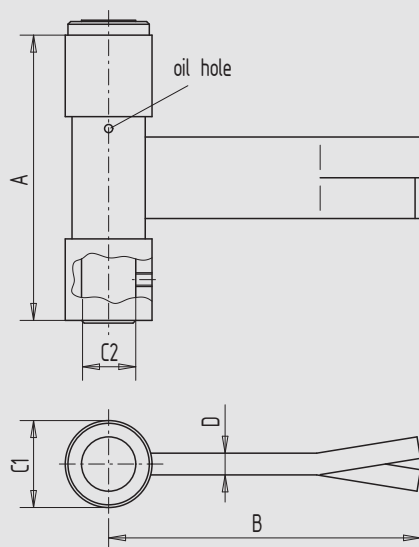
- with bearing
- right and left hand usable

Art.-no.	Material/Surface
04.651.0034.005	Steel, bright
04.651.0034.010	Steel, zinc-plated



**WSS**

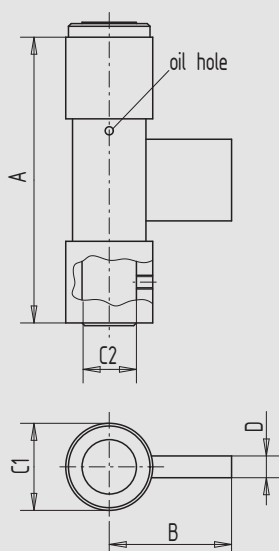
Weld-on hinges



Weld-on hinge, 3-parts

- centric hinge with stone thole pin
- steel, zinc plated

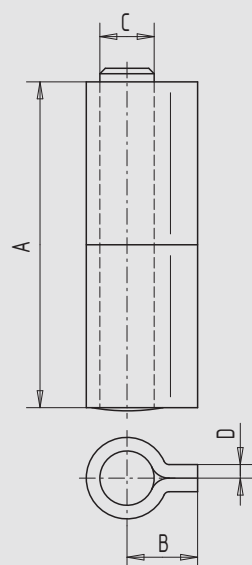
Art.-no.	A	B	C1	C2	D
04.670.0090.---	90	90	22	12	6
04.670.0095.---	95	105	27	15	8
04.670.0105.---	105	115	32	32	8



Weld-on hinge, 3-parts

- centric hinge to weld-on
- steel, zinc plated

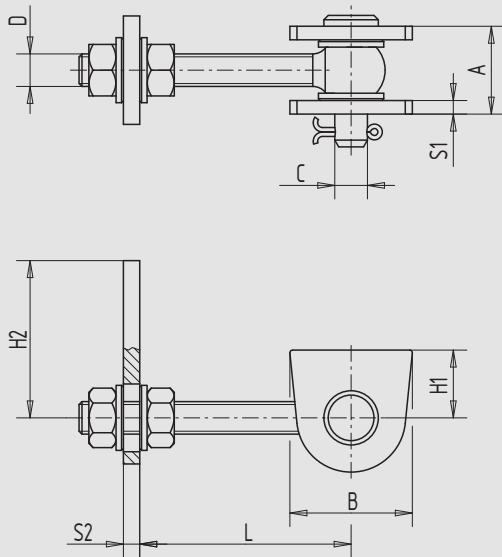
Art.-no.	A	B	C1	C2	D
04.671.0090.---	90	30	22	12	6
04.671.0095.---	95	35	27	15	8
04.671.0105.---	105	45	32	20	8



Weld-on hinge, 2-parts

- steel, zinc plated

Art.-no.	A	B	C	D
04.672.0080.010	80	24	16	5
04.672.0100.010	100	24	18	5
04.672.0120.010	120	26	20	5



A	B	C	D	S1	S2	L min.	L max.	H1	H2 min.
32	45	12	12	5	6	34	80	25	47
41	54	16	16	8	8	25	93	28	54
46	79	18	20	8	8	35	100	35	87
56	79	22	24	10	12	40	112	35	89

Gate hinge

- adjustable
- to weld-on

Art.-no.	D	Material/Surface
04.700.0012.005	12	Steel, bright
04.700.0012.405	12	Stainless Steel V2A, bright
04.700.0016.005	16	Steel, bright
04.700.0016.405	16	Stainless Steel V2A, bright
04.700.0020.005	20	Steel, bright
04.700.0024.005	24	Steel, bright

Information	Blank steel version:
	- post- and frame parts blank steel, - eye screw hot zinc dipped, - screw-nuts and U-plates zinc plated - bolt and splint stainless steel
	Blank stainless steel version (V2A):
	- all parts stainless steel

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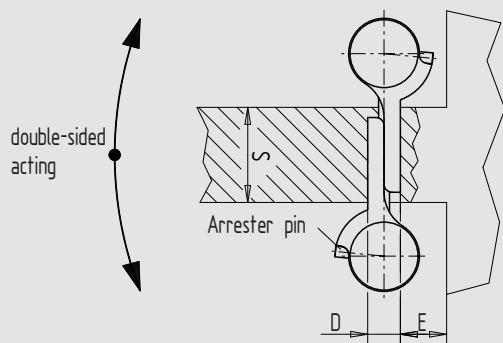
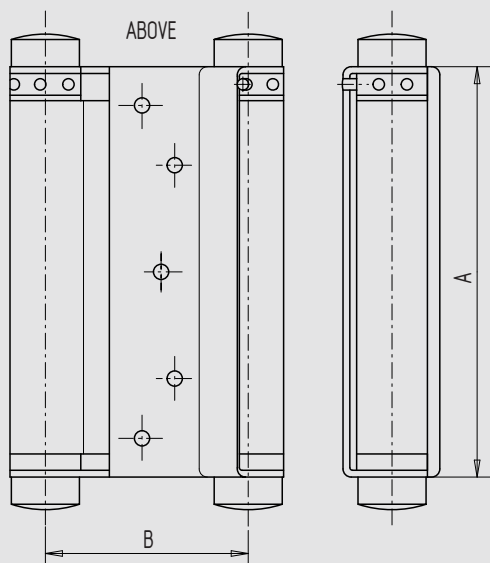
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A	Weight of door (kgs.)	Width of door	Height of door	S	B	ØC	D	E
75	15	610	1800	18 - 25	49	21	10	15
100	22	735	1900	25 - 30	55,5	21	10	15
125	27	735	2000	30 - 35	64,5	23	11	16
150	40	735	2500	35 - 40	74,5	26	12	17
175	55	860	2500	40 - 45	81,5	29	15	18
200	70	985	2600	45 - 50	90,5	33	17	20
250	100	985	2800	50 - 60	103,5	37	19	23
300	145	1235	3000	60 - 75	123	44	19	25

Swing-door hinge, double-sided acting

Art.-no.	A	Material/ Surface
04.750.0075.010	75	Steel, zinc-plated
04.750.0075.426	75	Stainless Steel V2A, matt brushed
04.750.0100.010	100	Steel, zinc-plated
04.750.0100.426	100	Stainless Steel V2A, matt brushed
04.750.0125.010	125	Steel, zinc-plated
04.750.0125.426	125	Stainless Steel V2A, matt brushed
04.750.0150.010	150	Steel, zinc-plated
04.750.0150.426	150	Stainless Steel V2A, matt brushed
04.750.0175.010	175	Steel, zinc-plated
04.750.0175.426	175	Stainless Steel V2A, matt brushed
04.750.0200.010	200	Steel, zinc-plated
04.750.0200.426	200	Stainless Steel V2A, matt brushed
04.750.0250.010	250	Steel, zinc-plated
04.750.0250.426	250	Stainless Steel V2A, matt brushed
04.750.0300.010	300	Steel, zinc-plated

Information Swing door hinge also steel nickel plated, brass plated , massive brass polished or nickel plated available.



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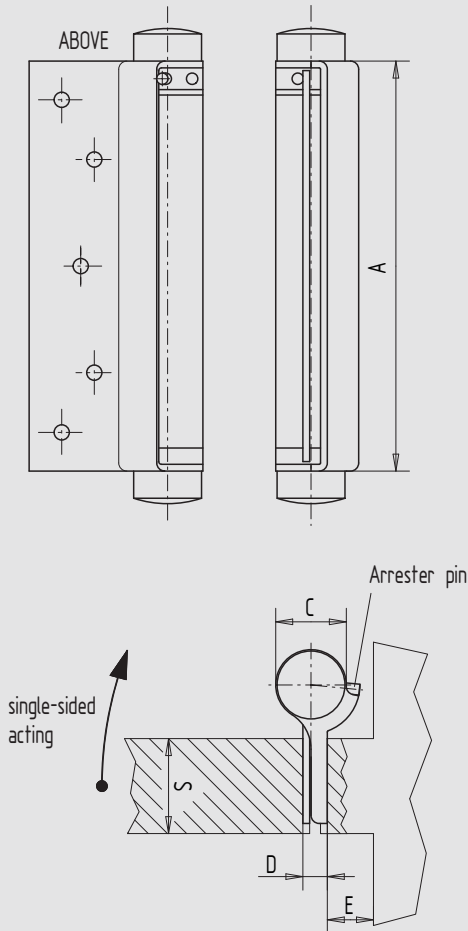
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Swing-door hinge, single-sided acting

Art.-no.	A	Material/ Surface
04.751.0075.010	75	Steel, zinc-plated
04.751.0075.426	75	Stainless Steel V2A, matt brushed
04.751.0100.010	100	Steel, zinc-plated
04.751.0100.426	100	Stainless Steel V2A, matt brushed
04.751.0125.010	125	Steel, zinc-plated
04.751.0125.426	125	Stainless Steel V2A, matt brushed
04.751.0150.010	150	Steel, zinc-plated
04.751.0150.426	150	Stainless Steel V2A, matt brushed
04.751.0175.010	175	Steel, zinc-plated
04.751.0175.426	175	Stainless Steel V2A, matt brushed
04.751.0200.010	200	Steel, zinc-plated
04.751.0200.426	200	Stainless Steel V2A, matt brushed
04.751.0250.010	250	Steel, zinc-plated
04.751.0250.426	250	Stainless Steel V2A, matt brushed
04.751.0300.010	300	Steel, zinc-plated

Information Swing door hinge also steel nickel plated, brass plated, massive brass polished or nickel plated available.



A	Weight of door (kgs.)	Width of door	Height of door	S	ØC	D	E
75	15	610	1800	18 - 25	21	6	15
100	22	735	1900	25 - 30	21	6,5	15
125	27	735	2000	30 - 35	23	7	16
150	40	735	2500	35 - 40	26	8,5	17
175	55	860	2500	40 - 45	29	9	18
200	70	985	2600	45 - 50	33	9,5	20
250	100	985	2800	50 - 60	37	9,5	23
300	145	1235	3000	60 - 75	44	10,5	25

**WSS**

Special hinges

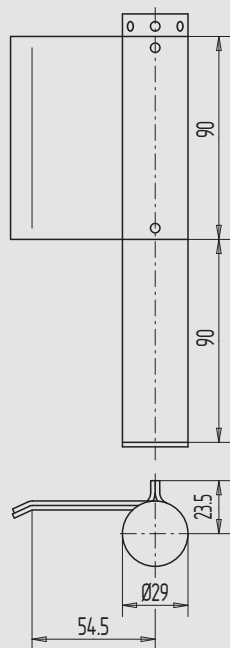


Illustration shows DIN right

Spring loaded hinge

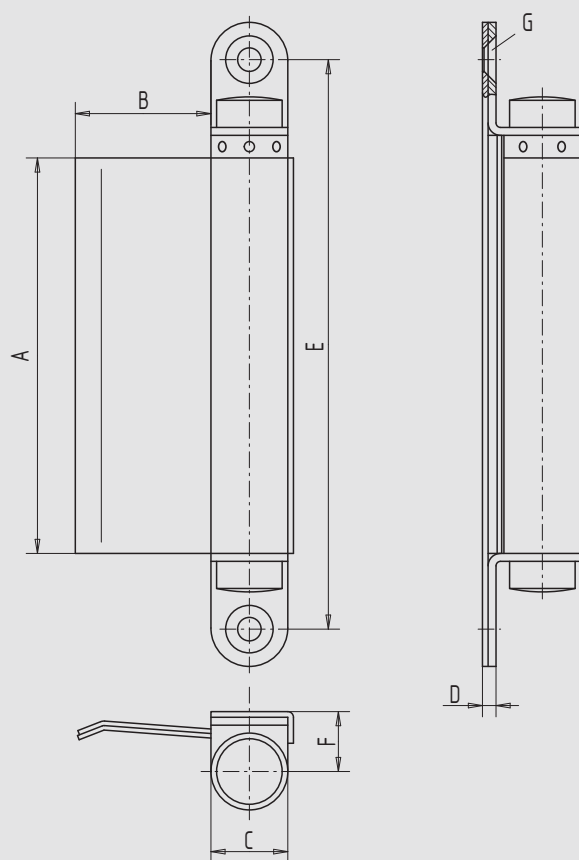
- according to DIN 18262/Form A
- for door heights up to 1000 x 2000 mm
- for door weights up to 80 kg.
- single-side acting
- non-carrying

Art.-no.	Direction	Material/Surface
04.800.0180.005	right hand	Steel, bright
04.800.0180.010	right hand	Steel, zinc-plated
04.801.0180.005	left hand	Steel, bright
04.801.0180.010	left hand	Steel, zinc-plated

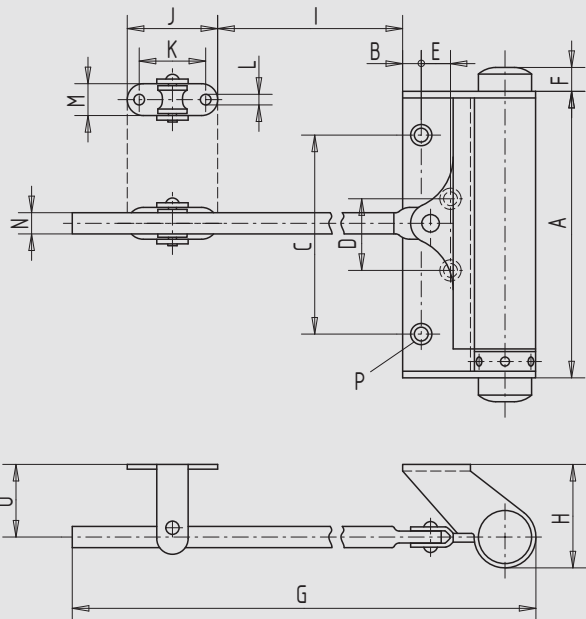
Spring loaded hinge

- to screw-on
- steel, zinc plated

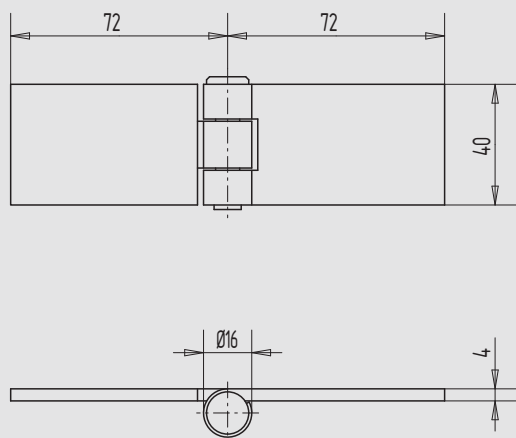
Art.-no.	A	Material/Surface
04.804.0115.010	115	Steel, zinc-plated
04.804.0152.010	152	Steel, zinc-plated
04.804.0175.010	175	Steel, zinc-plated



A	B	C	D	E	F	G	Width of door max.	Height of door max.	Weight of door max. (kgs.)
115	60	26	6	185	25	M 8	735	2500	40
152	60	30	8	232	25	M 8	860	2500	55
175	60	34	6	252	27	M10	986	2600	80



	Size 1	Size 2	Size 3	Size 4	Size 5
Admeasurement A	86	108	130	150	170
Admeasurement B	6	7	8	7	11
Admeasurement C	65	75	99	115	127
Admeasurement D	23	27	34	42	59
Admeasurement E	10	11	12	16	14
Admeasurement F	8	9	10	12	13
Admeasurement G	approx. 255	approx. 255	approx. 345	approx. 390	approx. 490
Admeasurement H	36	40	46	56	64
Admeasurement I	approx. 155	approx. 155	approx. 235	approx. 260	approx. 360
Admeasurement J	34	34	34	42	42
Admeasurement K	22	22	22	28	28
Admeasurement L	3	3	3	3	3
Admeasurement M	12	12	12	14	14
Admeasurement N	8	8	8	9	11
Admeasurement O	33	33	33	45	45
Admeasurement P	4	4	4,5	5	5



Door closing spring

- size 1 - 5
- right and left hand usable

Art.-no.	Size	Weight of door (kgs.)	Material/Surface
04.810.0086.010	1	max. 25	Steel, zinc-plated
04.810.0108.010	2	max. 35	Steel, zinc-plated
04.810.0108.405	2	max. 35	Stainless Steel V2A, bright
04.810.0130.010	3	max. 50	Steel, zinc-plated
04.810.0130.405	3	max. 50	Stainless Steel V2A, bright
04.810.0150.010	4	max. 65	Steel, zinc-plated
04.810.0170.010	5	max. 75	Steel, zinc-plated

Hinge, 3-parts

Art.-no.	Version	Material/Surface
04.830.0040.005	with brass pin	Steel, bright
04.830.0040.010	with brass pin	Steel, zinc-plated
04.830.0040.405	with stainless steel pin	Stainless Steel V2A, bright

**WSS**

Special hinges

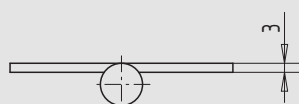
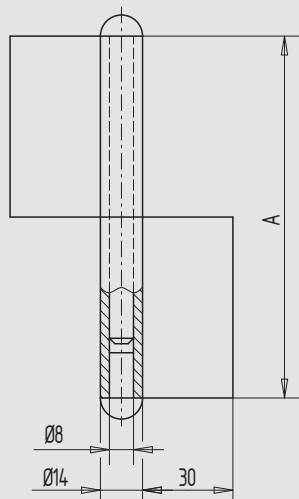
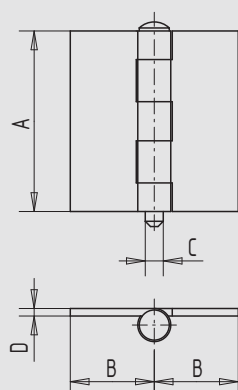
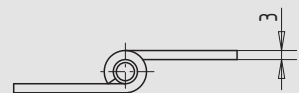
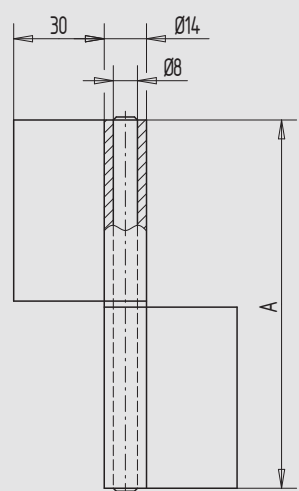


Illustration shows right handed version



Hinge, 2-parts

■ with loose brass pin

Art.-no.	A	Direction	Material/ Surface
04.850.0080.005	80	right hand	Steel, bright
04.850.0080.010	80	right hand	Steel, zinc-plated
04.850.0100.005	100	right hand	Steel, bright
04.850.0100.010	100	right hand	Steel, zinc-plated
04.850.0120.005	120	right hand	Steel, bright
04.850.0120.010	120	right hand	Steel, zinc-plated
04.851.1080.005	80	left hand	Steel, bright
04.851.1080.010	80	left hand	Steel, zinc-plated
04.851.1100.005	100	left hand	Steel, bright
04.851.1100.010	100	left hand	Steel, zinc-plated
04.851.1120.005	120	left hand	Steel, bright
04.851.1120.010	120	left hand	Steel, zinc-plated

Hinge, 2-parts

■ with loose brass pin

■ right and left hand usable

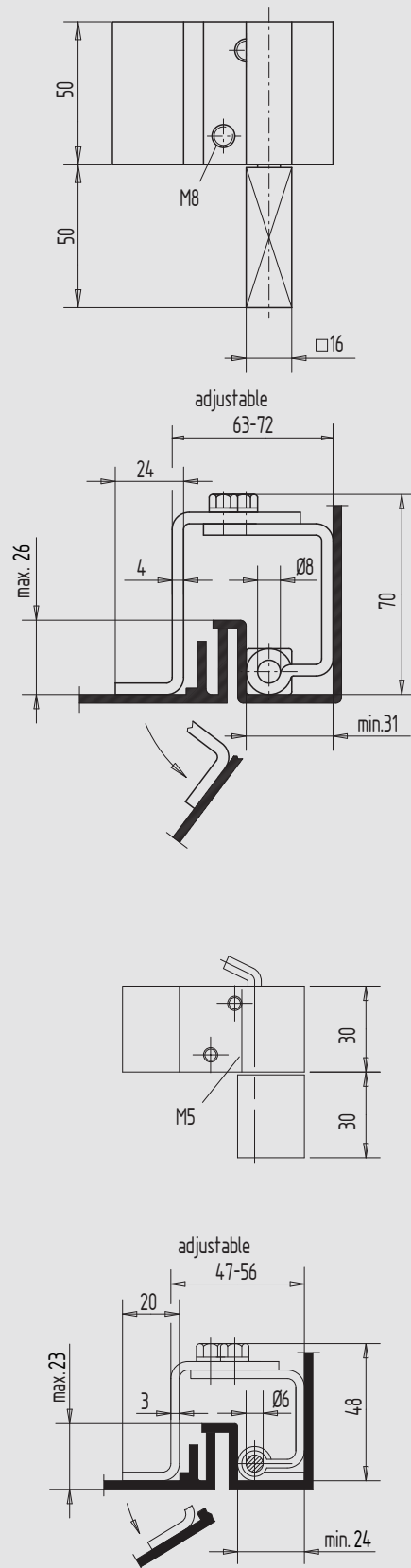
Art.-no.	A	Material/Surface
04.854.0082.005	82	Steel, bright
04.854.0082.010	82	Steel, zinc-plated
04.854.0102.005	102	Steel, bright
04.854.0102.010	102	Steel, zinc-plated
04.854.0122.005	122	Steel, bright
04.854.0122.010	122	Steel, zinc-plated

Hinge, 5-parts

■ with brass pin

Art.-no.	A	B	C	D
04.856.0060.---	60	28	6	2,5
04.856.0095.---	95	33	7	3,0

Surface codes	Material/Surface
---.005	Steel, bright
---.010	Steel, zinc-plated



Inlaid hinge

- frame-part to weld-on
- upstand 26 mm
- right and left hand usable

Art.-no.	Material/Surface
04.900.0000.010	Steel, zinc-plated

Inlaid hinge

- frame-part to weld-on
- upstand 20 mm
- right and left hand usable

Art.-no.	Material/Surface
04.901.0000.010	Steel, zinc-plated

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**WSS**

Special hinges

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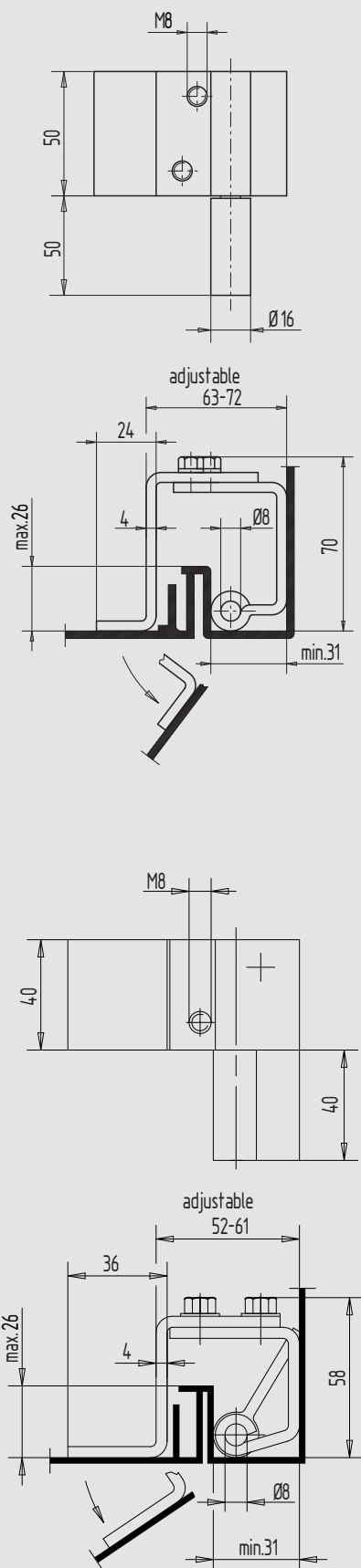
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Inlaid hinge

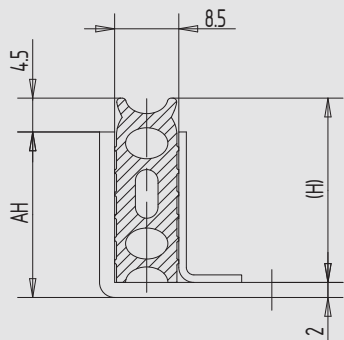
- frame-part to weld-on
- with centric guide
- right and left hand usable

Art.-no.	Material/Surface
04.902.0000.010	Steel, zinc-plated

Inlaid hinge

- frame-part to weld-on
- with centric guide
- right and left hand usable

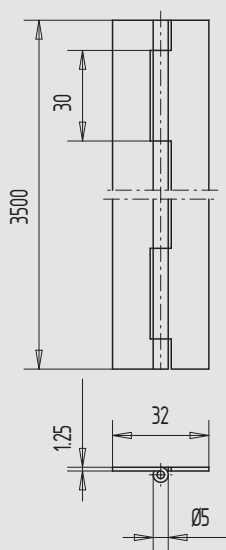
Art.-no.	Material/Surface
04.903.0000.010	Steel, zinc-plated
04.903.0000.405	Stainless Steel V2A, bright



Lip rubber profile

- cellular rubber, black
- EPDM 25° Shore
- in lengths of 50 m (roller)

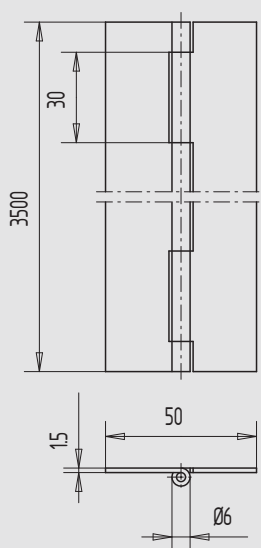
Art.-no.	AH at 2 mm	H	Material/Surface
04.904.0185.565	16	18,5	PVC, black
04.904.0205.565	18	20,5	PVC, black
04.904.0225.565	20	22,5	PVC, black
04.904.0245.565	22	24,5	PVC, black
04.904.0265.565	24	26,5	PVC, black
04.904.0285.565	26	28,5	PVC, black



Butt-hinge, 32 mm open width

- in production lengths of 3500 mm
- without holes
- right and left hand usable

Art.-no.	Material/Surface
04.920.0032.005	Steel, bright
04.920.0032.405	Stainless Steel V2A, bright

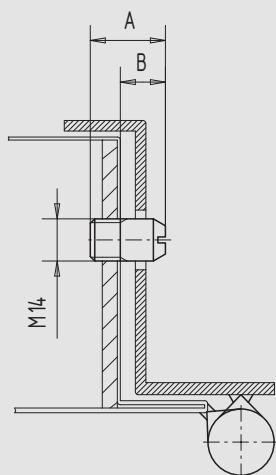


Butt-hinge, 50 mm open width

- in production lengths of 3500 mm
- without holes
- right and left hand usable

Art.-no.	Material/Surface
04.922.0050.005	Steel, bright
04.922.0050.405	Stainless Steel V2A, bright

Information	Butt-hinges also as fixed length as well as hole-version available.
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Security bolt

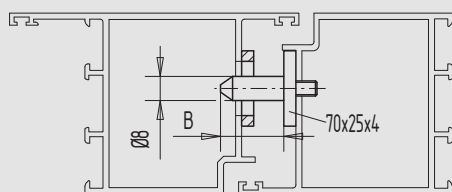
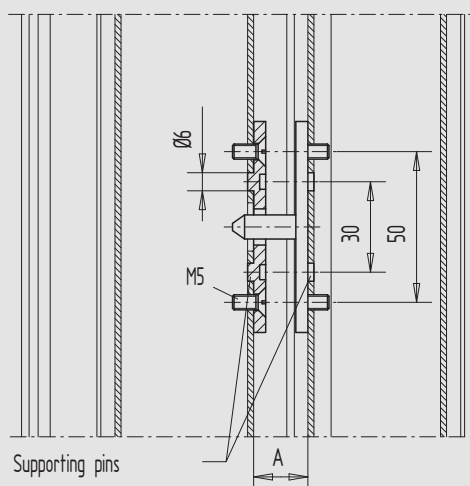
- with thread

Art.-no.	A	B	Material/Surface
04.940.1435.010	35	20	Steel, zinc-plated
04.940.2015.010	25	15	Steel, zinc-plated

Security bolt

- 2-parts
- with locking plate, hinge-sided

Art.-no.	A	B	Material/Surface
04.950.1116.405	11 - 16	17	Stainless Steel V2A, bright
04.950.1722.405	17 - 22	21	Stainless Steel V2A, bright
04.950.2326.405	23 - 26	25	Stainless Steel V2A, bright



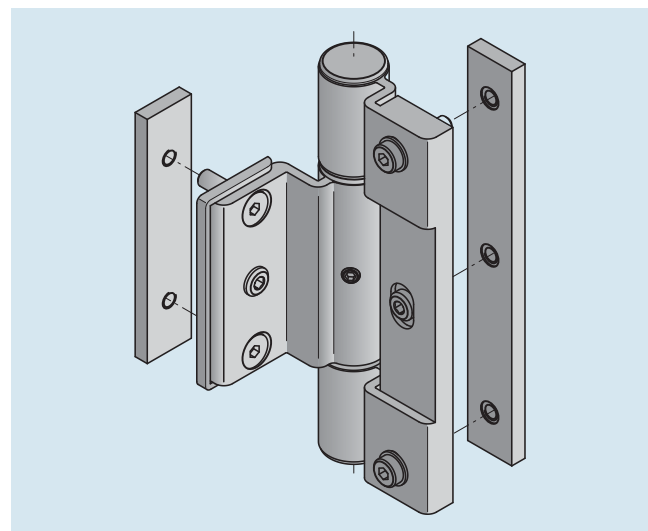
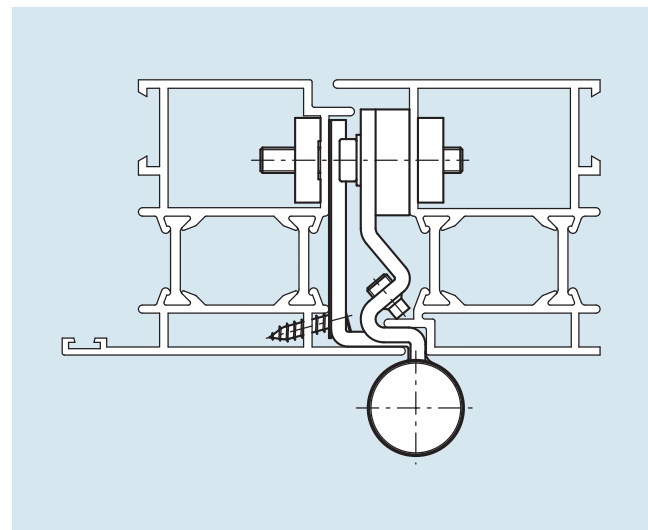
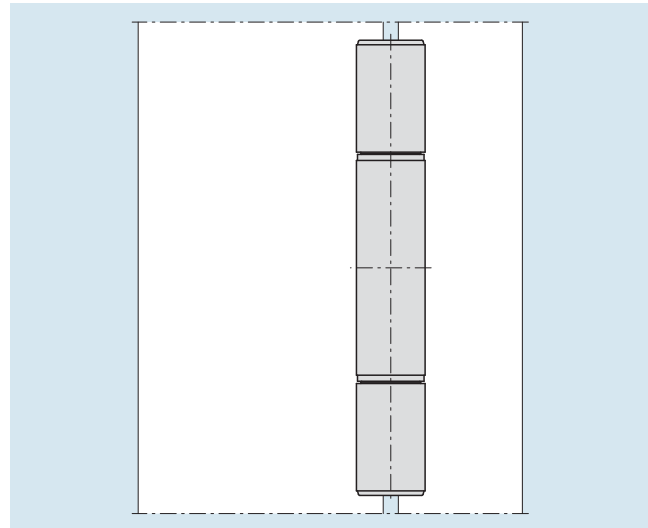
Butt hinges

In addition to the known screw-on and weld-on hinges, we also deliver 3-part butt hinges out of **aluminium**, **steel** and **stainless steel**, aligned to the separate profile systems.

Concealed hinge-fixing frame- and leaf-sided inside the rabbet.

Load capacity of the hinges:

- 2 pcs. = max. 120 kg. leaf weight
- 3 pcs. = max. 150 kg. leaf weight



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Notes

