DIRAK®

CATALOG

C20

Quarter-Turns

Swinghandles

Multi-Point Systems

Latches

Hinges

Gaskets

Handles

Fastening Technology

Complementary Products

Together.

Pioneering.
Precise.
Personal.



Pioneering Products for over 25 years.

We develop, produce and distribute mechanical and mechatronic hardware solutions for industrial enclosures that are developed for today's applications, as well as those yet to come.

Our mission is to design products today that become industry standards tomorrow. This mission is driven by the simple question, "How can we solve the challenges of our customers?"



Precise solutions for your success.

We are dedicated to finding solutions that are precisely tailored to your applications. We use our vast industry knowledge and support the project from the initial concept to order fulfillment and delivery. We work to ensure that you receive the best customer support along with a product that meets the highest standard of quality.

Personal and professional in a world full of change.

In the right place, when you need us – as a global company with over 500 employees worldwide, we are focused on the needs of our customers. We put great emphasis on customer relationships and on-site consultation. This emphasis is based on a respect and understanding of the customer's needs and forms the basis of our success.

The best solution for every application.

DIRAK is the technology leader for industrial enclosure hardware. Our experience and expertise in design and production is demonstrated in the variety of parts we manufacture for the diverse market sectors we serve.

- Energy Distribution and Environmental Technology
- Telecommunication
- Railway and Off-Highway Vehicles/Agriculture
- Heating, Ventilation, and Air-Conditioning (HVAC)
- Datacom/IT Cabinets
- Industrial Machinery Manufacturing
- Sheet-Metal Fabrication
- Traffic/Tunnel Engineering and Infrastructure
- Food Production Manufacturing
- Medical Devices

We look forward to working together on your unique applications so that we can find a solution tailored precisely to your requirements.

More in-stock than you might think.

Performance, reliability and an efficient supply chain are the hallmarks of our assembly and logistics center in Sprockhövel. With integrated material handling from receipt of goods, through assembly, and finally to shipping, we ensure that you receive your products in a reliable and timely manner.

Experience what quality means to us.

Our products can be found in many different industries and are subject to various physical and environmental stresses. Therefore, we test our products in our own on-site testing facilities, as well as work with a broad network of service providers and testing laboratories in order to provide the highest quality and reliability.

Always up to date, always available.

Discover the DIRAK world online at **www.DIRAK.com**. In addition to being able to view or download all of our products as 3D models, you can take a 360° virtual tour of our product testing facility.

Sign up for our DIRAK newsletter, available on our website, to stay up to date with new product launches and other DIRAK news.



Simple. Secure. DIRAK-SNAP-Technology.

In a world full of connections, we have developed a pioneering technology.

With DIRAK-SNAP-Technology you can create high-strength connections easily, without the use of any tools – so that you can create the perfect solution, simply and securely.

DST



Our technology, your benefit:

- High strength fit and hold
- Vibration resistant
- Flexibility in fastening various sheet-metal thickness
- Secure yet removeable
- Reliable, error free installation
- Electronically grounded fastening available
- Blind assembly simplifies installation and offers more design possibilities
- Tool-less installation
- Reduces assembly time

E-LINE by DIRAK

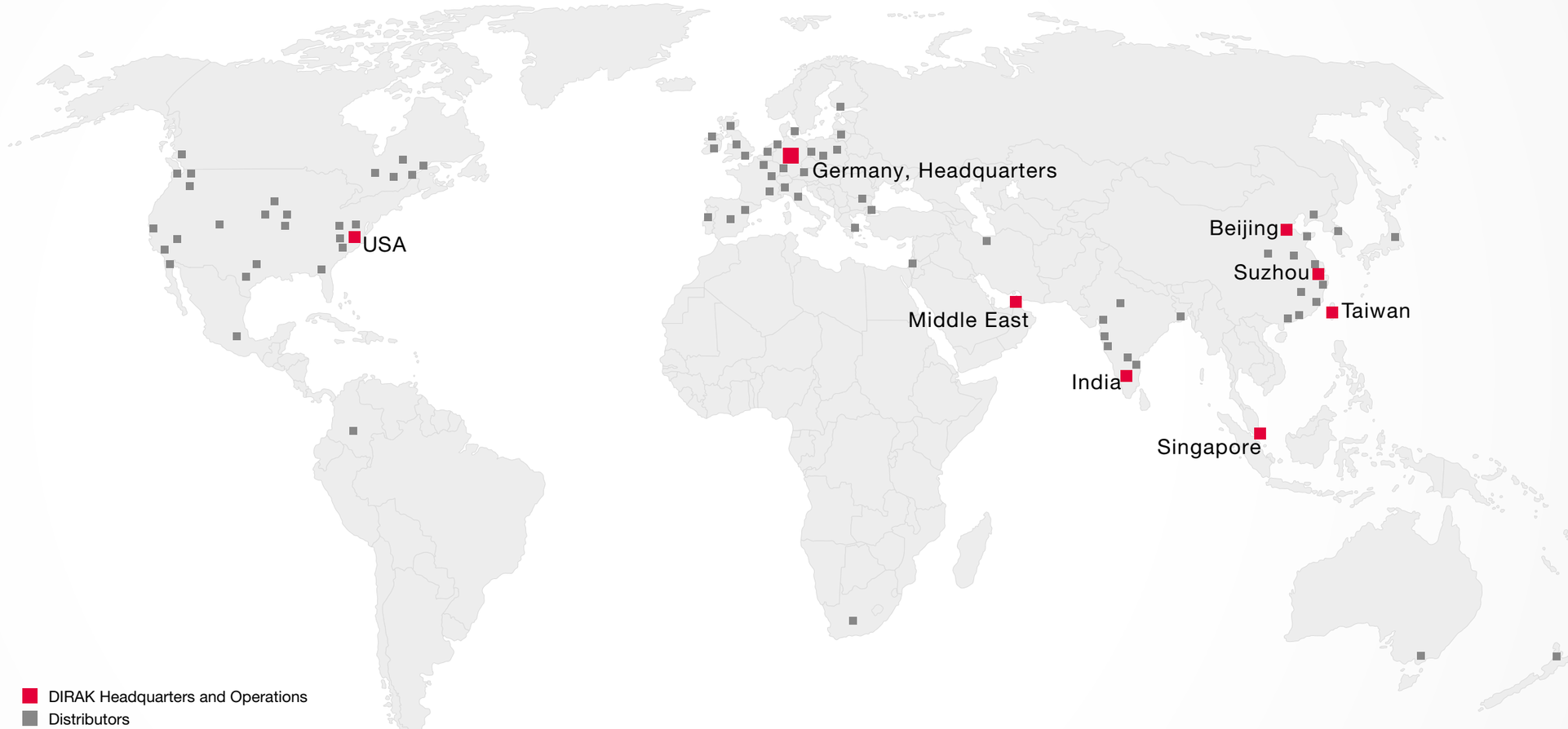
secure. 24 365

The feeling of secure.

E-LINE by DIRAK, our brand of mechatronic locking solutions, offers product systems for IT server cabinets, outdoor enclosures, and industrial applications. With our product solutions, you can monitor and control access to your enclosures, either as a stand-alone solution or by integrating it with your existing management system.

Learn more about our mechatronic locking solutions at **elinebydirak.com**.





Our commitment to quality is reflected in both our products and our employees, who are continuously working to optimize our internal processes and striving to make necessary improvements. We are certified according to DIN ISO 9001-2015.

Engineered in Germany since 1991

Our construction and assembly plants are in two separate locations in Germany which are both founded on delivering the highest standard of quality and ensuring the distribution of the best products.

From the initial concept to the order fulfillment and delivery, our focus is always on your requirements and we promise our continued and reliable partnership even after the project is completed – we are only satisfied when you are satisfied.

- Consulting
- Product development
- Prototyping
- Product testing
- Logistics
- After sales service

+500
Employees worldwide

+200
Commissionings per hour

+300
Packages per day

+4.500
Catalog products

Find Solutions on DIRAK.com



Quarter-Turns can be used as a locking mechanism for numerous applications. They are comprised of a housing, insert, and cam.



Latches: In addition to the standard latches, we offer a variety of latching systems that can be used in special applications, such as snap locks, slam locks, and quick release fasteners.



Handles: We have optimized our handle assortment for a large number of applications. Many of our handles utilize DIRAK SNAP Technology and can be installed without tools.

Swinghandles can provide a much higher torque when compared to traditional quarter-turns. This makes swinghandles ideal for multipoint locking on larger enclosures, such as managing access control to server racks.

Hinges: Because every application is unique, we carry an extensive range of standard hinges to meet most customer requests.

Fasteners: Our tool-less fastening technology has been specially developed for demanding industrial environments and makes the assembly process quick and easy.



Multi-Point Locks are ideal for large enclosures or those with higher security needs. Because they secure multiple points along the door and frame, they ensure the enclosure remains properly sealed.



Gaskets: We have developed a variety of gaskets in various shapes, sizes, and materials to ensure your application remains properly sealed regardless of its application conditions



Complementary Products: We offer many accessories, including cable management, to ensure all your enclosure hardware needs are met.

Quarter-Turns

Swinghandles

Multi-Point Systems

Latches

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Gaskets

Handles

Fastening Technology

Complementary Products

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Quarter-Turns





So clean you can eat off it.

Our hygiene products meet the strict requirements of the food production industry.

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Easy adjustment.

The tool-less actuation enables easy height adjustment to easily customize the amount of pressure the door has on the gasket/frame.



Many features combined into one product.

The compression latch utilizes a low profile design with a lock indicator and allows for adjustable compression height.

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Open when unlocked.

The cover of this compression latch can only be closed when it is fully locked, thus serving as an indicator of the locking status.

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Working under pressure.

Products with IP69K protection can withstand high pressure water jets and remain sealed.

DST DIRAK-SNAP-Technology. Simple. Secure.



Clear indication.

The flashing LED module clearly indicates the open status of the quarter-turn.

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At a glance.

The compression latch utilizes a low profile design with colored lock indicators to give a clear visual signal of locking status.



Low profile.

The newly designed Safety Quarter-Turn has a modern, flush appearance.

Quarter-Turns



Quarter-Turns by Cutout



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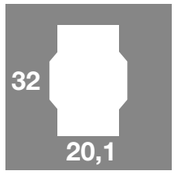
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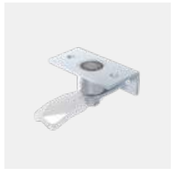
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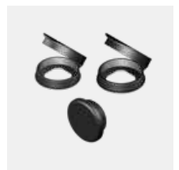
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Quarter-Turn Pr14.1 L13.5

[1-050]



for cutout 14.1, length 13.5

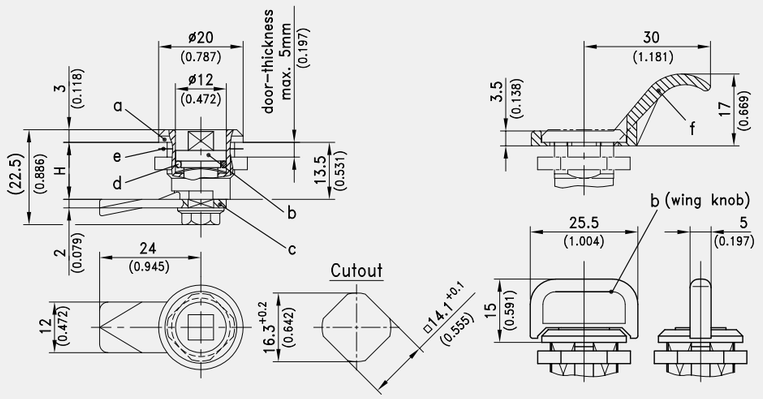
Advantages

- Quarter-Turn, RH or LH application.
- The Quarter-Turn consists of the three basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout and combined with the finger pull of product system 1-060.
- When using finger pull (f) the H-dimension decreases by 0.8mm!
- IP65 according to DIN EN 60529 by using the sealing kit.

Materials

a)

- **Housing:** zinc die, chrome plated or black or PA, black



Quarter-Turn, L13,5

	Part Number	Door-thickness	Grounding type	Material	Surface	Installation type
a)	220-9001.00-00000	0 - 5 mm		zinc die	chrome plated	screw-on
a)	220-9002.00-00000	0 - 5 mm	Grounding nut	zinc die	chrome plated	screw-on
a)	220-9005.00-00000	0 - 5 mm	Grounding clip	zinc die	chrome plated	screw-on
a)	220-9003.00-00000	0 - 5 mm		zinc die	black	screw-on
a)	220-9004.00-00000	0 - 5 mm	Grounding nut	zinc die	black	screw-on
a)	220-9006.00-00000	0 - 5 mm	Grounding clip	zinc die	black	screw-on
a)	220-9020.00-00000	0 - 5 mm		PA	black	screw-on
a)	220-9021.00-00000	0 - 5 mm	Grounding nut	PA	black	screw-on
a)	220-9022.00-00000	0 - 5 mm	Grounding clip	PA	black	screw-on

Accessories

758 6-100 **Key**
c) 155 1-058 **Cams for Quarter-Turn Pr14.1**
b) 154 1-059 **Inserts and Finger Pull for Quarter-Turn Pr14.1**

Assembly options

220-0001.00-00000 **Assembling cam without o-ring**
220-0002.00-00000 **Assembling cam with o-ring**
220-0006.00-00000 **Assembling cam 90° to wing knob without o-ring**
220-0007.00-00000 **Assembling cam 90° to wing with o-ring**

Function extension

209-9003.00-00000 **Sealing kit IP65 for 220-Quarter-Turns**

Quarter-Turn Pr14.1 L13.5

[7-050]



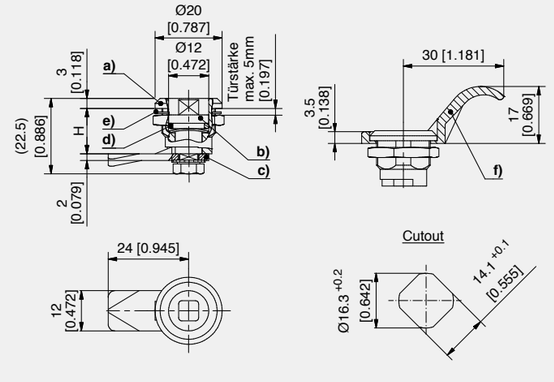
stainless steel AISI 316, for cutout 14.1, length 13.5

Advantages

- Quarter-Turn, RH or LH application.
- The Quarter-Turn consists of three basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout and combined with finger pull of product system 1-060.
- When using finger pull the H-dimension decreases by 0.8mm!
- IP65 DIN EN 60529 by sealing kit.

Materials

- **Housing and insert:** stainless steel AISI 316
- **Screw, serrated washer and cam:** stainless steel AISI 304
- **Wave washer:** stainless steel AISI 301



Quarter-Turn housing+nut

	Part Number	Housing length	Door-thickness	Material	Installation type
a)	220-9018.00-00000	13.5 mm	max. 5 mm	Stainless Steel	screw-on

Insert with screw, spring- and serrated washer

	Part Number	Insert	Material
b)	220-9120.00-00000	Square 6mm	stainless steel AISI 316L
b)	220-9121.00-00000	Triangular 6.5mm	stainless steel AISI 316L
b)	220-9122.00-00000	Slotted insert	stainless steel AISI 316L

Cams

	Part Number	H-dimension	Material	Stop	Length
c)	220-0503.04-00000	7.5 mm	stainless steel AISI 304	Yes	24 mm
c)	220-0501.04-00000	13.5 mm	stainless steel AISI 304	Yes	24 mm
c)	220-0502.04-00000	19.5 mm	stainless steel AISI 304	Yes	24 mm

Accessories

b1) 758 6-100 **Key**
f) 154 220-1301.00-00000 **Finger pull**

Assembly options

220-0001.00-00000 **Assembling cam without o-ring**
220-0002.00-00000 **Assembling cam with o-ring**

Function extension

209-9003.00-00000 **Sealing kit IP65 for 220-Quarter-Turns**

Quarter-Turn Pr14.1 L13.5

[1-057]



Advantages

- Tool-less installation.
- Quarter-Turn clipped in.
- Secure fixation in the cutout with 2 clip-in noses.
- RH/ LH application.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- The Quarter-Turn can only be clipped into the cutout when it is open.

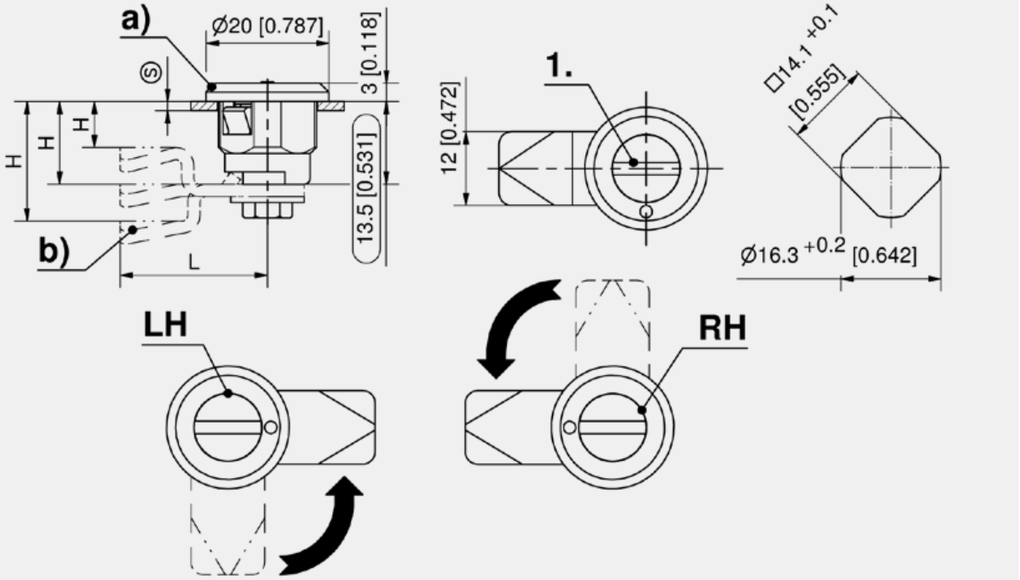
Materials

- **Housing and insert:** PA, black
- **Hexagon head screw:** stainless steel

Remarks

(S) door-thickness 0.8 [0.031 to 1.5 mm [0.059]

1. open position: delivery condition



Quarter-Turn housing with Insert

	Part Number	Insert	Housing length	Door-thickness	Material	Surface	Installation type
a)	220-9701.00-00000	Slotted 2x4mm	13.5 mm	0.8 - 1.5 mm	PA	black	tool-less

Accessories

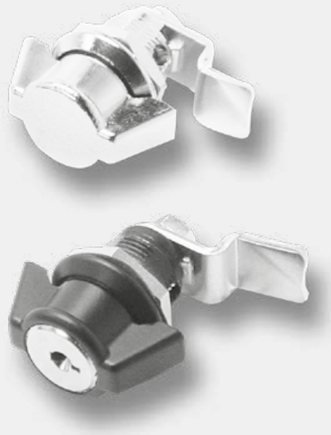
b) 155 1-058 **Cams for Quarter-Turn Pr14.1**

Assembly options

220-0008.00-00000 **Assembling (always in open condition)**

Quarter-Turn with Wing Knob Pr14.1 L13.5

[1-056]



for cutout 14.1, length 13.5, with cylinder

Advantages

- Quarter-Turn with wing knob 90° rotation.
- RH or LH application.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All locks supplied with two keys.

Materials

a)

- **Wing knob and housing:** zinc die, black or chrome plated

b)

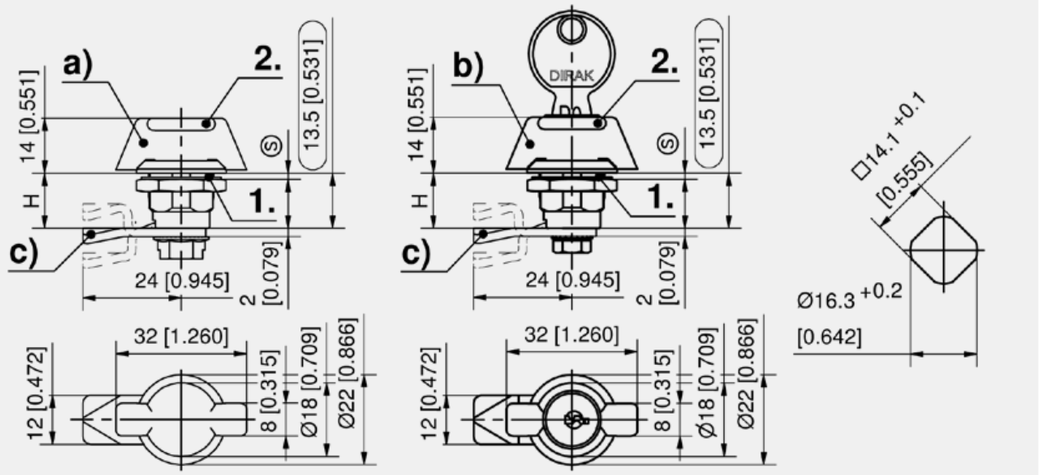
- **Cam:** steel, zinc plated

Remarks

1. = Flat external seal

2. = Grab-collar

Door-thickness max. 2.5mm



Quarter-Turn with Wing Knob, zinc die

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Surface
a)	220-9301.00-00000	13.5 mm		max. 2.5 mm		chrome plated
b)	220-9303.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 2.5 mm		chrome plated
b)	220-9305.00-00000	13.5 mm	keyed different	max. 2.5 mm		chrome plated
a)	220-9302.00-00000	13.5 mm		max. 2.5 mm	Grounding nut	chrome plated
b)	220-9304.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 2.5 mm	Grounding nut	chrome plated
b)	220-9306.00-00000	13.5 mm	keyed different	max. 2.5 mm	Grounding nut	chrome plated
a)	220-9307.00-00000	13.5 mm		max. 2.5 mm		black
b)	220-9309.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 2.5 mm		black
b)	220-9311.00-00000	13.5 mm	keyed different	max. 2.5 mm		black
a)	220-9308.00-00000	13.5 mm		max. 2.5 mm	Grounding nut	black
b)	220-9310.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 2.5 mm	Grounding nut	black
b)	220-9312.00-00000	13.5 mm	keyed different	max. 2.5 mm	Grounding nut	black

Accessories

c) 155 1-058 **Cams for Quarter-Turn Pr14.1**

Assembly options

220-0001.00-00000 **Assembling cam without o-ring**

220-0004.00-00000 **Assembling cam 90° to handle with o-ring**

Cylinder Quarter-Turn Pr14.1 L13.5

[1-053]



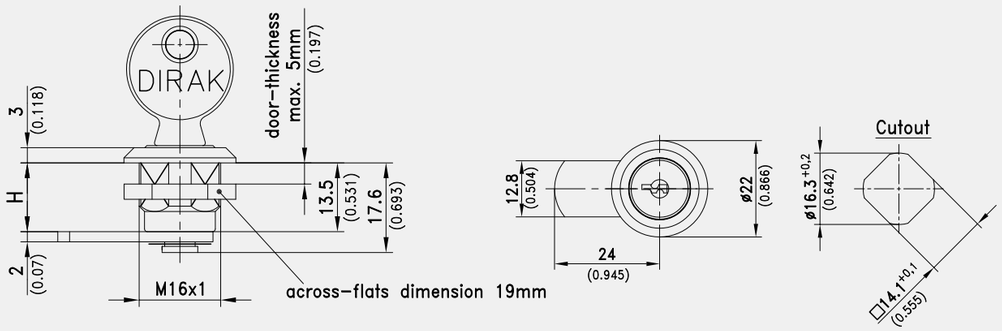
for cutout 14.1, length 13.5

Advantages

- Cylinder Quarter-Turn with 90° rotation, nut fixing.
- RH / LH application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- ***ATTENTION:** The door thickness of the Quarter-Turns with riveted cam must not exceed 3mm!
- All locks supplied with two keys.

Materials

- **Housing:** zinc die, chrome plated or black
- **Cylinder:** zinc die, chrome plated
- **Nut and cam:** steel, zinc plated



Quarter-Turn, zinc die, chrome plated, cam riveted

Part Number	Housing length	Latching type	Door-thickness	H-dimension	Grounding type	Installation type
220-9207.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	7.5 mm		screw-on
220-9208.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	13.5 mm		screw-on
220-9209.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	19.5 mm		screw-on
220-9210.00-00000	13.5 mm	keyed different	max. 3 mm	7.5 mm		screw-on
220-9211.00-00000	13.5 mm	keyed different	max. 3 mm	13.5 mm		screw-on
220-9212.00-00000	13.5 mm	keyed different	max. 3 mm	19.5 mm		screw-on
220-9213.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	7.5 mm	Grounding nut	screw-on
220-9214.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	13.5 mm	Grounding nut	screw-on
220-9215.00-00000	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	19.5 mm	Grounding nut	screw-on
220-9216.00-00000	13.5 mm	keyed different	max. 3 mm	7.5 mm	Grounding nut	screw-on
220-9217.00-00000	13.5 mm	keyed different	max. 3 mm	13.5 mm	Grounding nut	screw-on
220-9218.00-00000	13.5 mm	keyed different	max. 3 mm	19.5 mm	Grounding nut	screw-on

Quarter-Turn, zinc die, chrome plated, cam fixed with c-clip

Part Number	Housing length	Latching type	Door-thickness	H-dimension	Grounding type	Installation type
220-9207.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	7.5 mm		screw-on
220-9208.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	13.5 mm		screw-on
220-9209.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	19.5 mm		screw-on
220-9210.00-07200	13.5 mm	keyed different	max. 3 mm	7.5 mm		screw-on
220-9211.00-07200	13.5 mm	keyed different	max. 3 mm	13.5 mm		screw-on
220-9212.00-07200	13.5 mm	keyed different	max. 3 mm	19.5 mm		screw-on
220-9213.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	7.5 mm	Grounding nut	screw-on
220-9214.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	13.5 mm	Grounding nut	screw-on
220-9215.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	19.5 mm	Grounding nut	screw-on
220-9216.00-07200	13.5 mm	keyed different	max. 3 mm	7.5 mm	Grounding nut	screw-on
220-9217.00-07200	13.5 mm	keyed different	max. 3 mm	13.5 mm	Grounding nut	screw-on
220-9218.00-07200	13.5 mm	keyed different	max. 3 mm	19.5 mm	Grounding nut	screw-on

Quarter-Turn, zinc die, black, cam fixed with c-clip

Part Number	Housing length	Latching type	Door-thickness	H-dimension	Installation type
220-9220.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	7.5 mm	screw-on
220-9221.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	13.5 mm	screw-on
220-9222.00-07200	13.5 mm	keyed alike DIRAK 2233X	max. 3 mm	19.5 mm	screw-on
220-9223.00-07200	13.5 mm	keyed different	max. 3 mm	7.5 mm	screw-on
220-9224.00-07200	13.5 mm	keyed different	max. 3 mm	13.5 mm	screw-on
220-9225.00-07200	13.5 mm	keyed different	max. 3 mm	19.5 mm	screw-on

Accessories
155 1-058 **Cams for Quarter-Turn Pr14.1**

Quarter-Turn L13.5

[1-048]



length 13.5, with fixing clip

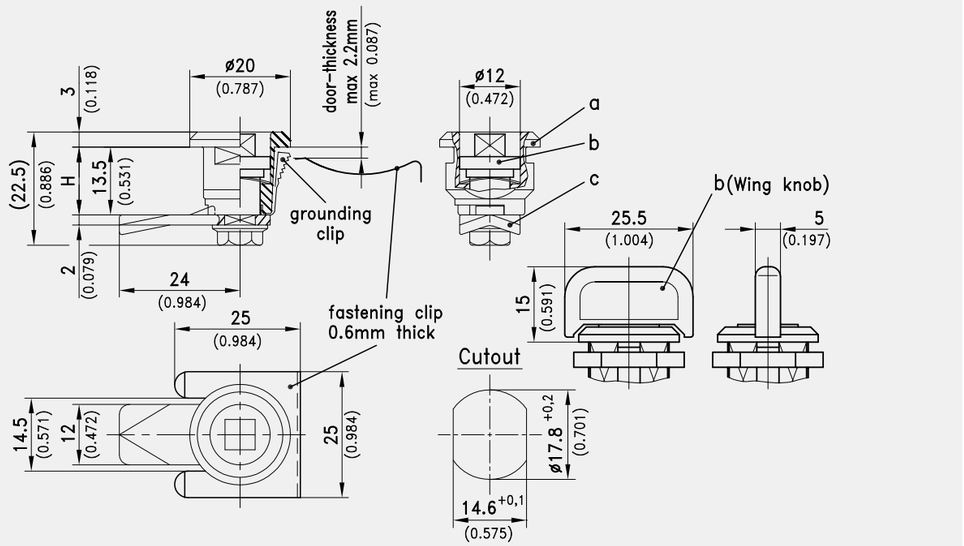
Advantages

- This Quarter-Turn consists of three basic parts which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- Max. IP54.
- **Note:** On LH doors the opening direction is clockwise.

Materials

a)

- **Housing:** PA, black or zinc die, chrome plated
- **Fixing clip:** steel, zinc plated
- **Grounding clip:** stainless steel



Quarter-Turn, zinc die, chrome plated

	Part Number	Version	Housing length	Door-thickness	Grounding type	Installation type
a)	220-9007.00-00000	RH	13.5 mm	max. 2.2 mm	Grounding clip	tool-less
a)	220-9013.00-00000	RH	13.5 mm	max. 2.2 mm		tool-less

Quarter-Turn, PA, black

	Part Number	Version	Housing length	Door-thickness	Grounding type	Installation type
a)	220-9501.00-00000	RH	13.5 mm	max. 2.2 mm		tool-less
a)	220-9503.00-00000	RH	13.5 mm	max. 2.2 mm	Grounding clip	tool-less

Accessories

	758	6-100 **Key**
c)	155	1-058 **Cams for Quarter-Turn Pr14.1**
b)	154	1-059 **Inserts and Finger Pull for Quarter-Turn Pr14.1**

Assembly options

220-0001.00-00000 **Assembling cam without o-ring**
220-0006.00-00000 **Assembling cam 90° to wing knob without o-ring**

Cylinder Quarter-Turn L13.5

[1-054]



length 13.5, with fixing clip

Advantages

- Cylinder Quarter-Turn with fixing clip.
- PA-version is electrically insulated.
- RH / LH application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Attention: please note the cutout!**
- All locks supplied with two keys.

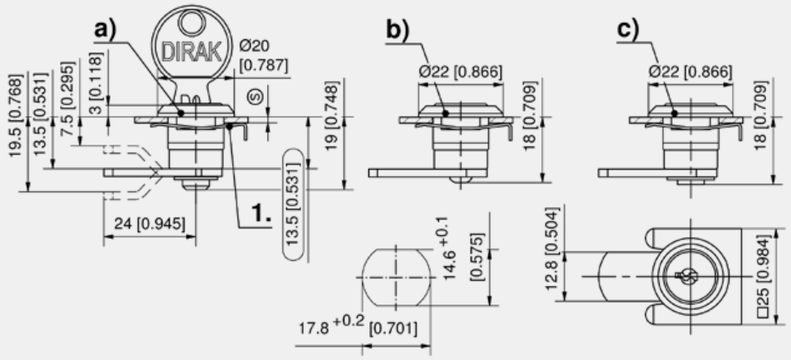
Materials

- **Housing and cylinder:** PA, black or zinc die, chrome plated
- **Fixing clip and cam:** steel, zinc plated

Remarks

1.= fixing clip

(S) door-thickness max. 2.2mm



Cylinder Quarter-Turn, cam with fixing clip

	Part Number	Construction depth	Latching type	H-dimension	Door-thickness	Material	Surface
a)	220-9601.00-00000	19 mm	keyed alike DIRAK 2233X	7.5 mm	max. 2.2 mm	PA	black
a)	220-9602.00-00000	19 mm	keyed alike DIRAK 2233X	13.5 mm	max. 2.2 mm	PA	black
a)	220-9603.00-00000	19 mm	keyed alike DIRAK 2233X	19.5 mm	max. 2.2 mm	PA	black
a)	220-9604.00-00000	19 mm	keyed different	7.5 mm	max. 2.2 mm	PA	black
a)	220-9605.00-00000	19 mm	keyed different	13.5 mm	max. 2.2 mm	PA	black
a)	220-9606.00-00000	19 mm	keyed different	19.5 mm	max. 2.2 mm	PA	black
c)	220-9201.00-07200	18 mm	keyed alike DIRAK 2233X	7.5 mm	max. 2.2 mm	zinc die	chrome plated
c)	220-9202.00-07200	18 mm	keyed alike DIRAK 2233X	13.5 mm	max. 2.2 mm	zinc die	chrome plated
c)	220-9203.00-07200	18 mm	keyed alike DIRAK 2233X	19.5 mm	max. 2.2 mm	zinc die	chrome plated
c)	220-9204.00-07200	18 mm	keyed different	7.5 mm	max. 2.2 mm	zinc die	chrome plated
c)	220-9205.00-07200	18 mm	keyed different	13.5 mm	max. 2.2 mm	zinc die	chrome plated
c)	220-9206.00-07200	18 mm	keyed different	19.5 mm	max. 2.2 mm	zinc die	chrome plated

Cylinder Quarter-Turn, cam riveted

	Part Number	Construction depth	Latching type	H-dimension	Door-thickness	Material	Surface
b)	220-9201.00-00000	18 mm	keyed alike DIRAK 2233X	7.5 mm	max. 2.2 mm	zinc die	chrome plated
b)	220-9202.00-00000	18 mm	keyed alike DIRAK 2233X	13.5 mm	max. 2.2 mm	zinc die	chrome plated
b)	220-9203.00-00000	18 mm	keyed alike DIRAK 2233X	19.5 mm	max. 2.2 mm	zinc die	chrome plated
b)	220-9204.00-00000	18 mm	keyed different	7.5 mm	max. 2.2 mm	zinc die	chrome plated
b)	220-9205.00-00000	18 mm	keyed different	13.5 mm	max. 2.2 mm	zinc die	chrome plated
b)	220-9206.00-00000	18 mm	keyed different	19.5 mm	max. 2.2 mm	zinc die	chrome plated

Accessories

155	1-058 **Cams for Quarter-Turn Pr14.1**

Compression Latch Pr 14.1

[1-045]

14 | DIN 61373 | R L | IP 65 | 5 Nm | RoHS WEEE



Advantages

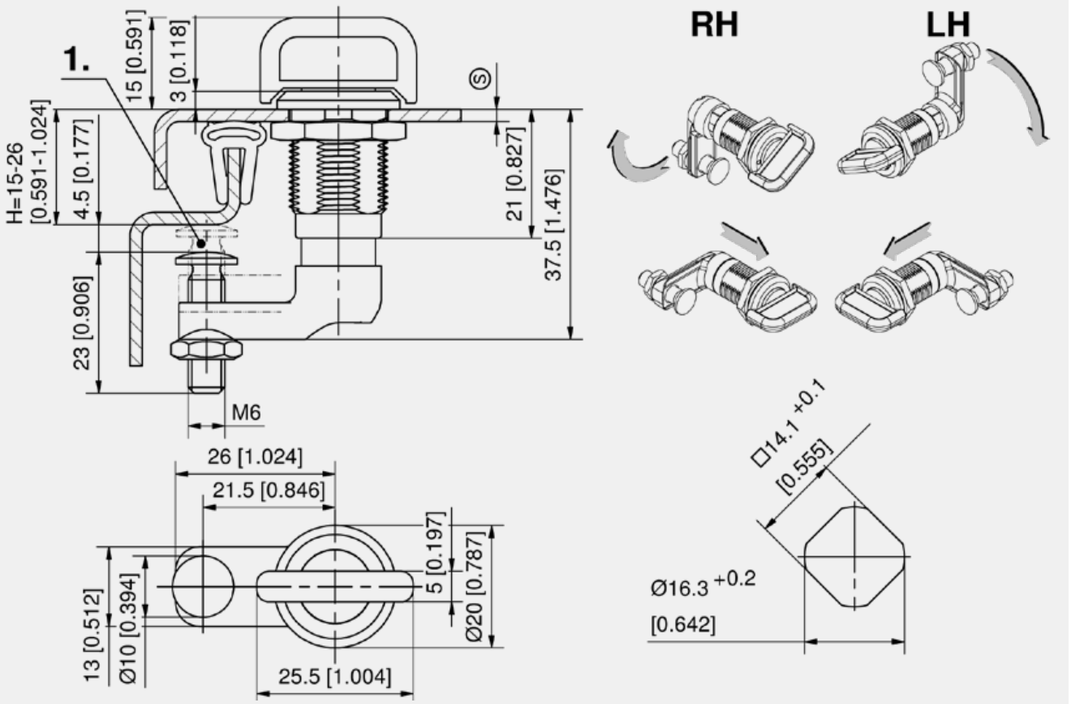
- Compression Latch with 4.5mm compression.
- RH or LH application.
- Vibration-proof according to DIN EN 61373.
- The closing process is always clockwise.
- By turning the insert 90° the cam is at first put into closed position.
- By turning a further 90°, the cam will be pulled towards the frame.
- The H-dimension can be easily adjusted by the adjusting screw.
- IP65 according to DIN EN 60529.
- A pre-assembled Quarter-Turn can be fitted through the cut-out.

Materials

- **Housing and insert shaft:** zinc die, black
- **T-Handle:** PA, black
- **Cam:** zinc die, black
- **Adjusting screw and nut:** steel, zinc plated

Remarks

1. Adjusting screw



Compression Latch

	Part Number	Insert	Construction depth	Door-thickness	Compression	variable H-dimension	Material	Surface	Installation type
a)	220-9313.00-00000	Wing knob	38 mm	max. 12 mm	4,5	15 - 26 mm	zinc die	black	screw-on
a1)	220-9317.00-00000	Slotted 2x4mm	38 mm	max. 12 mm	4,5	15 - 26 mm	zinc die	black	screw-on
a2)	220-9318.00-00000	Socket hex.4mm	38 mm	max. 12 mm	4,5	15 - 26 mm	zinc die	black	screw-on



Compression Latch Pr20.1

See page 68

Compression Latch Pr19.1

[1-067]

DIN 61373

IP 65/67

15 Nm

RoHS WEEE



The Compression Latch can be used where a secure latching is necessary

Advantages

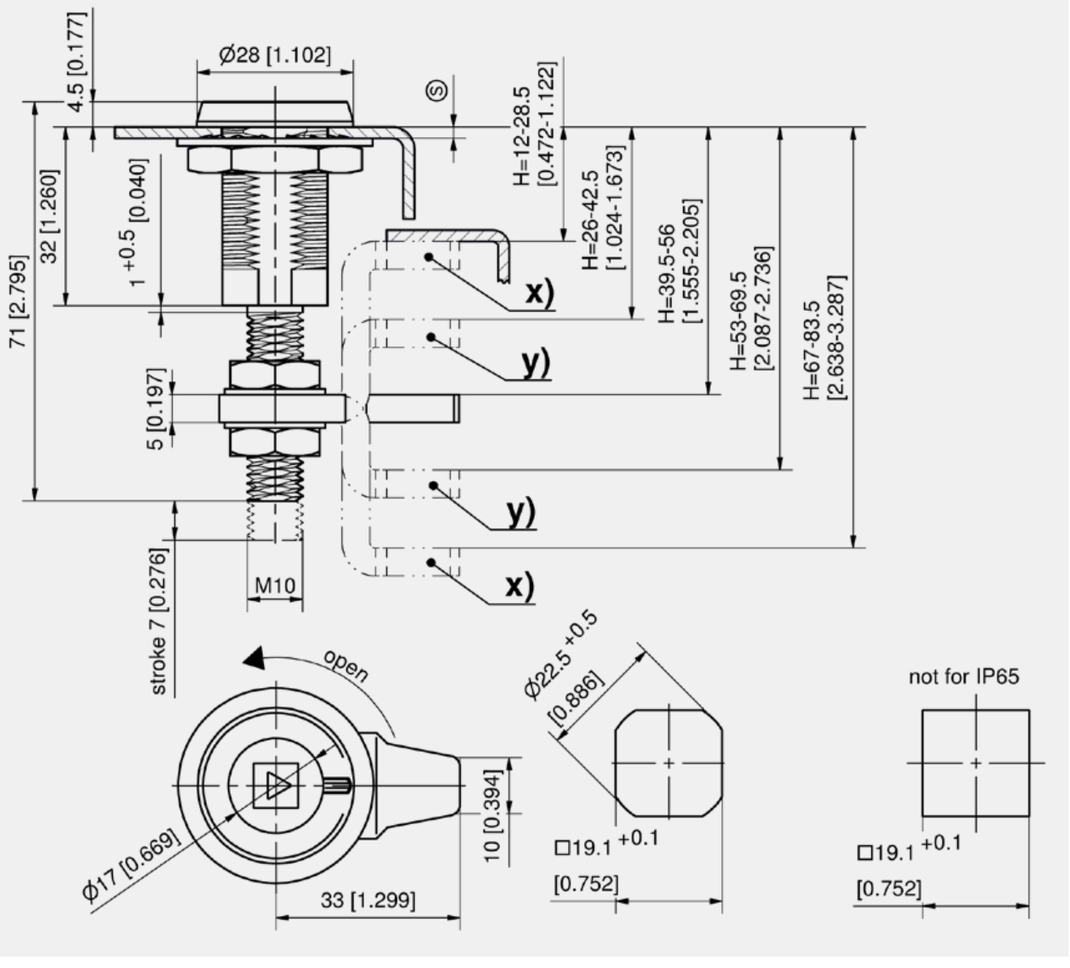
- Compression 7mm.
- Vibration-proof according to DIN EN 61373.
- Locking mechanism is a two-step process actuated by two 90° degree turns. Step 1: 90° degree turn - Cam is rotated behind the frame. Step 2: 90° degree turn - Cam is pulled 7 mm towards the frame.
- H-dimension variably adjustable from 39.5mm to 56mm by included straigth cam.
- H-dimension variably adjustable from 12mm/0.472 to 83.5mm/3.287 by cams x) or y).
- IP65/67 according to DIN EN 60529.
- Inserts h) and i) (see drawing) on request.

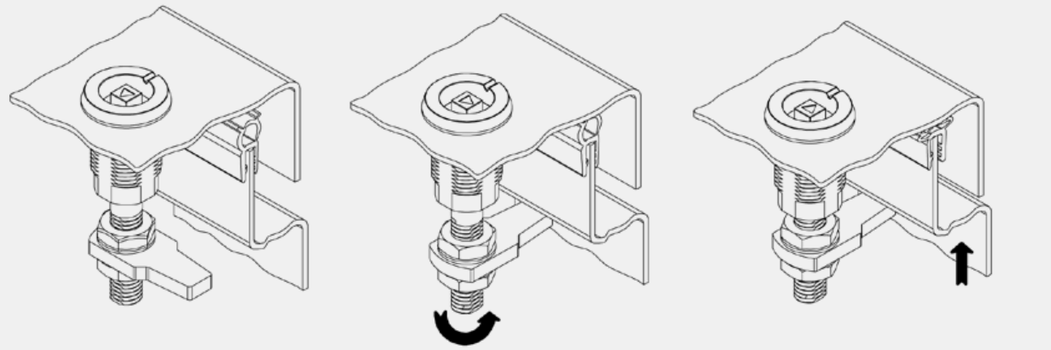
Materials

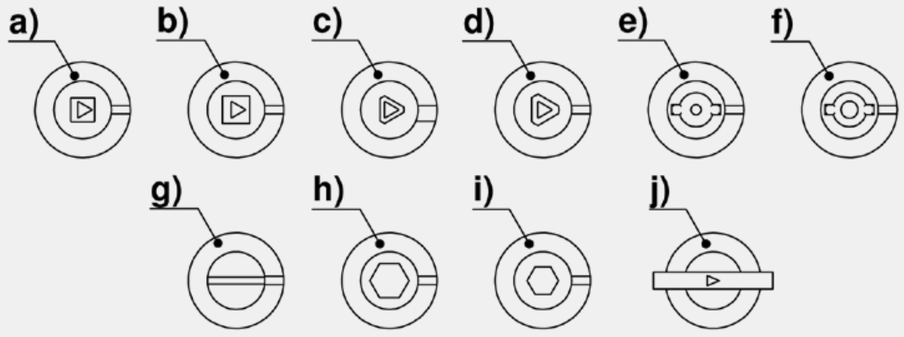
- **Housing and insert:** zinc die, black
- **Nut for attachment of the housing:** zinc die
- **Serrated washer, nut and pin:** steel, zinc plated

Remarks

(S) = max. 18 mm







Compression Latch with insert, zinc die, black

	Part Number	Insert	Version	variable H-dimension	Compression	Packaging unit
a)	248-9752.00-00001	Square 7mm	LH	39.5 - 56 mm	7	25 pcs.
b)	248-9752.00-00002	Square 8mm	LH	39.5 - 56 mm	7	25 pcs.
c)	248-9752.00-00003	Triangular 7mm	LH	39.5 - 56 mm	7	25 pcs.
d)	248-9752.00-00004	Triangular 8mm	LH	39.5 - 56 mm	7	25 pcs.
e)	248-9752.00-00005	Double bit 3mm pin	LH	39.5 - 56 mm	7	25 pcs.
f)	248-9752.00-00006	Double bit 5mm pin	LH	39.5 - 56 mm	7	25 pcs.
g)	248-9752.00-00007	Slotted 2x4mm	LH	39.5 - 56 mm	7	25 pcs.
j)	248-9752.00-00010	Wing knob	LH	39.5 - 56 mm	7	25 pcs.

Cams, L33

	Part Number	Bending	H-dimension negative variable	H-dimension pos variable	Packaging unit
x)	248-0602.15-00275	27.5 mm	12 - 28.5 mm	67 - 83.5 mm	25 pcs.
y)	248-0602.15-00135	13.5 mm	26 - 42.5 mm	53 - 69.5 mm	25 pcs.

Accessories
758 6-100 **Key**
6-101 **Multi Key**

Quarter-Turn Pr20.1 L12

[1-083]



Nicely shaped Quarter-Turn with 12mm (0.472) housing

Advantages

- RH / LH application.
- Please configure the Quarter-Turn with insert and cam.
- On request parts can be assembled.
- The Quarter-Turn can be screwed into the cutout with the pre-assembled cam.
- Grounding is possible with use of a grounding nut.
- IP65 according to DIN EN 60529 by using sealing kit.

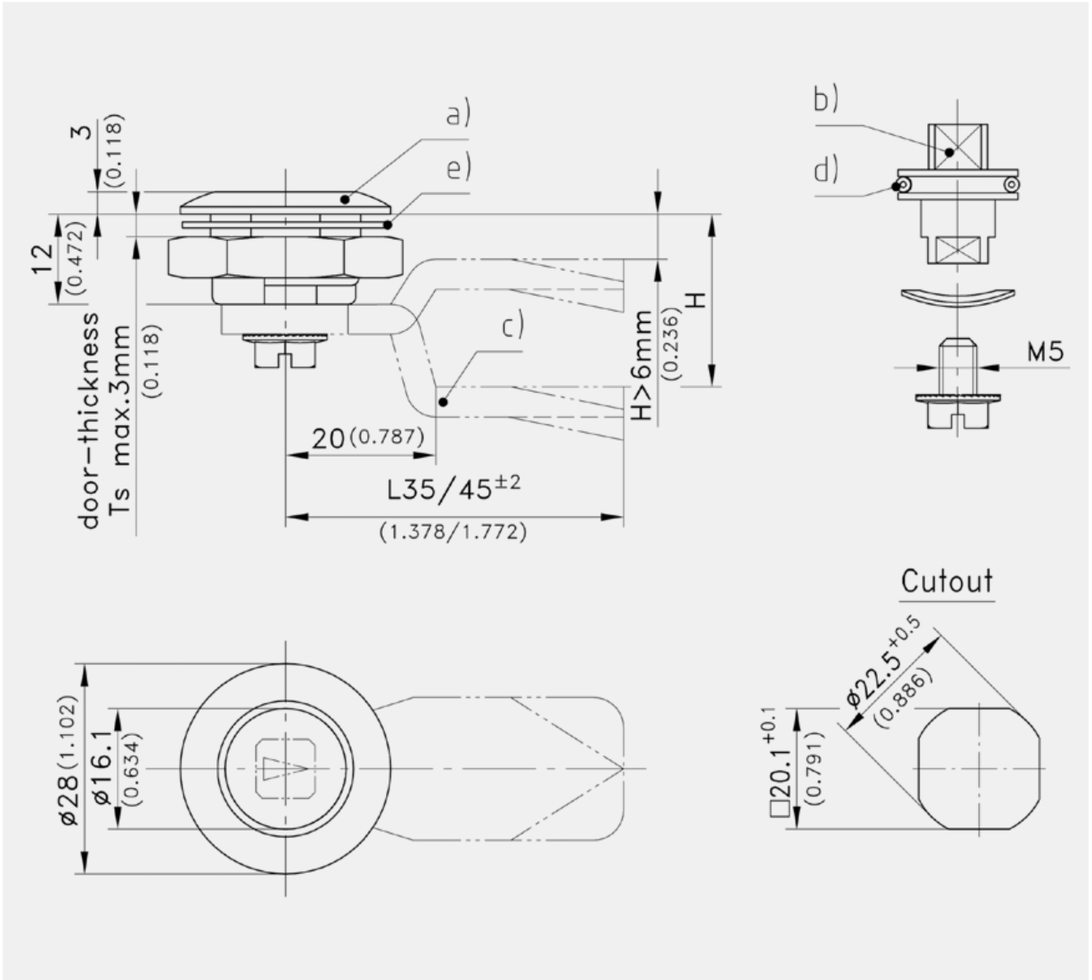
Materials

- **Housing and inserts:** zinc die, chrome plated or black
- **Cams and nut:** steel, zinc plated
- **Grounding nut:** zinc die, untreated

Remarks

Attention: H-dimension ≥6mm.

(S) = max. 3mm



Housing, zinc die

	Part Number	Housing length	Surface	Grounding type
a)	100-9044.00-00000	12 mm	chrome plated	
a)	100-9045.00-00000	12 mm	chrome plated	Grounding nut
a)	100-9046.00-00000	12 mm	black	
a)	100-9047.00-00000	12 mm	black	Grounding nut

Inserts for Quarter-Turn L12

	Part Number	Insert	Material	Surface
b)	100-9138.00-00006	Double bit 3mm pin	zinc die	chrome plated
b)	100-9138.00-00007	Double bit 5mm pin	zinc die	chrome plated
b)	100-9138.00-00008	Square 6mm	zinc die	chrome plated
b)	100-9138.00-00009	Square 7mm	zinc die	chrome plated
b)	100-9138.00-00010	Square 8mm	zinc die	chrome plated
b)	100-9138.00-00011	Triangular 7mm	zinc die	chrome plated
b)	100-9138.00-00012	Triangular 8mm	zinc die	chrome plated
b)	100-9138.00-00013	Slotted 2x4mm	zinc die	chrome plated
b)	100-9140.00-00006	Double bit 3mm pin	zinc die	black
b)	100-9140.00-00007	Double bit 5mm pin	zinc die	black
b)	100-9140.00-00008	Square 6mm	zinc die	black
b)	100-9140.00-00009	Square 7mm	zinc die	black
b)	100-9140.00-00010	Square 8mm	zinc die	black
b)	100-9140.00-00011	Triangular 7mm	zinc die	black
b)	100-9140.00-00012	Triangular 8mm	zinc die	black
b)	100-9140.00-00013	Slotted 2x4mm	zinc die	black

Accessories

	758	6-100 **Key**
c)	160	1-102 **Cams L35/45 steel**
c)	166	1-260 **Hooked Cam**
c)	167	1-261 **Cams with Ramp**
c)	167	1-262 **Cam variable**

Assembly options

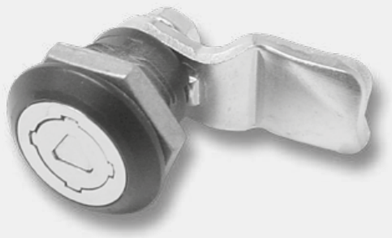
	200-0002.00-00000 **Assembling cam with o-ring**
	200-0001.00-00000 **Assembling cam without o-ring**

Function extension

d)-e)	209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Safety Quarter-Turn Pr20.1 L18

[1-085]



for cutout 20.1, length 18, vibration-proof

Advantages

- Elegant, low-profile safty Quarter-Turn.
- Vibration-proof also at high sealing pressure through an integrated latch.
- At the double bit version the operation is not possible without an appropriate key.
- The key is captive in open position according to DIN 43668.
- IP65 according to DIN EN 60529.
- Completely assembled but without cam.
- **An additional advantage**: Completely closed housing surface.

Materials

a)

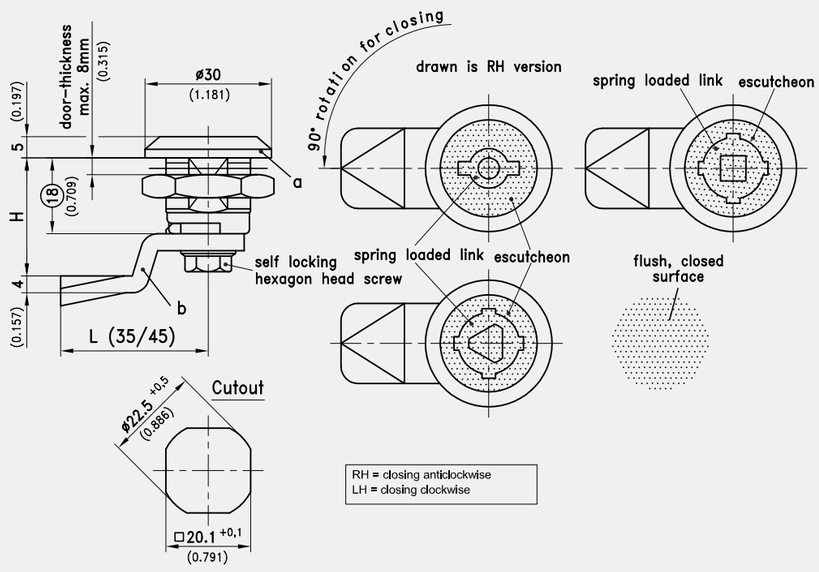
- **Housing:** zinc die, black or chrome plated
- **Spring loaded link and escutcheon:** zinc die, chrome plated
- **Insert:** zinc die, chrome plated

b) and b1)

- **Cam:** steel, zinc plated

Remarks

Attention: Also the black version always has the inserts escutcheon and link in chrome plating.



Safety Quarter-Turn, chrome plated

	Part Number	Housing length	Door-thickness	Insert	Version	Material	Surface
a)	255-9801.00-00000	18 mm	max. 8 mm	Square 6mm	RH / LH	zinc die	chrome plated
a)	255-9802.00-00000	18 mm	max. 8 mm	Square 7mm	RH / LH	zinc die	chrome plated
a)	255-9803.00-00000	18 mm	max. 8 mm	Square 8mm	RH / LH	zinc die	chrome plated
a)	255-9806.00-00000	18 mm	max. 8 mm	Triangular 6.5mm CNOMO	RH / LH	zinc die	chrome plated
a)	255-9804.00-00000	18 mm	max. 8 mm	Triangular 7mm	RH / LH	zinc die	chrome plated
a)	255-9805.00-00000	18 mm	max. 8 mm	Triangular 8mm	RH / LH	zinc die	chrome plated
a)	255-9807.00-00000	18 mm	max. 8 mm	Double bit 3mm pin	RH	zinc die	chrome plated
a)	255-9808.00-00000	18 mm	max. 8 mm	Double bit 3mm pin	LH	zinc die	chrome plated
a)	255-9809.00-00000	18 mm	max. 8 mm	Double bit 5mm pin	RH	zinc die	chrome plated
a)	255-9810.00-00000	18 mm	max. 8 mm	Double bit 5mm pin	LH	zinc die	chrome plated

Safety Quarter-Turn, black

	Part Number	Housing length	Door-thickness	Insert	Version	Material	Surface
a)	255-9851.00-00000	18 mm	max. 8 mm	Square 6mm	RH / LH	zinc die	black
a)	255-9852.00-00000	18 mm	max. 8 mm	Square 7mm	RH / LH	zinc die	black
a)	255-9853.00-00000	18 mm	max. 8 mm	Square 8mm	RH / LH	zinc die	black
a)	255-9856.00-00000	18 mm	max. 8 mm	Triangular 6.5mm CNOMO	RH / LH	zinc die	black
a)	255-9854.00-00000	18 mm	max. 8 mm	Triangular 7mm	RH / LH	zinc die	black
a)	255-9855.00-00000	18 mm	max. 8 mm	Triangular 8mm	RH / LH	zinc die	black
a)	255-9857.00-00000	18 mm	max. 8 mm	Double bit 3mm pin	RH	zinc die	black
a)	255-9858.00-00000	18 mm	max. 8 mm	Double bit 3mm pin	LH	zinc die	black
a)	255-9859.00-00000	18 mm	max. 8 mm	Double bit 5mm pin	RH	zinc die	black
a)	255-9860.00-00000	18 mm	max. 8 mm	Double bit 5mm pin	LH	zinc die	black

Accessories

	758	6-100 **Key**
b)	160	1-102 **Cams L35/45 steel**
b1)	167	1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**

DST Safety Quarter-Turn Pr32x20 L18 [1-085DST]



Advantages

- Low-profile safety Quarter-Turn vibration-proof also at high sealing pressure through an integrated latch.
- Tool-less installation.
- Vibration-proof installation.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- Not possible without an appropriate key.
- The key is captive in open position according to DIN 43668.
- Additional advantage: complete closed surface.
- RH / LH application.
- Pre-assembled RH/LH upon request.
- IP65 according to DIN EN 60529.
- Grounding by grounding clip.

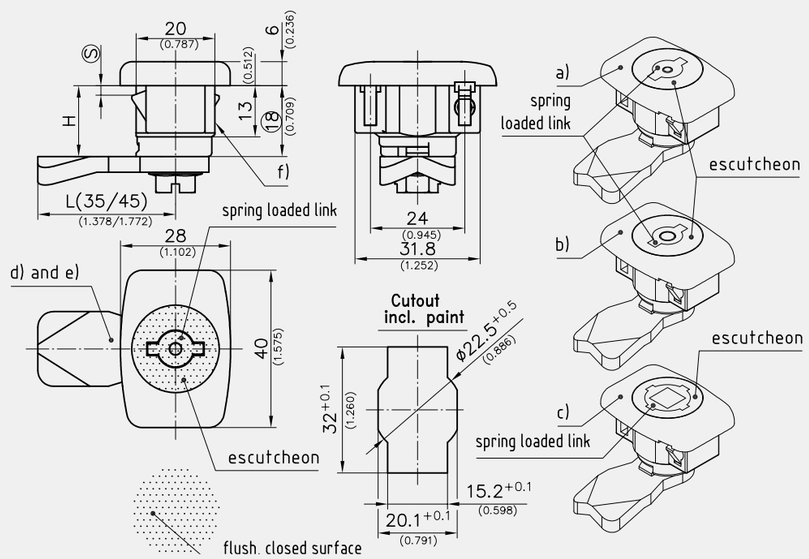
Materials

- **Housing, insert, spring loaded link and escutcheon:** zinc die, chrome plated
- **Snap wedges:** sintered steel
- **O-Ring:** NBR, black
- **Serrated screw:** steel, zinc plated

Remarks

ATTENTION: H-dimension of the cam not less than ≥12mm(0.472)!

The pull-off force for double bit version is max. 300N.



Safety Quarter-Turn

	Part Number	Insert	Clamping range	Grounding type	Housing length	Installation type
a)	455-9001.00-00013	Double bit 3mm pin	1.0 - 1.7 mm	Grounding clip	18 mm	tool-less
a)	455-9001.00-00018	Double bit 3mm pin	1.5 - 2.2 mm	Grounding clip	18 mm	tool-less
a)	455-9001.00-00026	Double bit 3mm pin	2.3 - 3.0 mm	Grounding clip	18 mm	tool-less
b)	455-9002.00-00013	Double bit 5mm pin	1.0 - 1.7 mm	Grounding clip	18 mm	tool-less
b)	455-9002.00-00018	Double bit 5mm pin	1.5 - 2.2 mm	Grounding clip	18 mm	tool-less
b)	455-9002.00-00026	Double bit 5mm pin	2.3 - 3.0 mm	Grounding clip	18 mm	tool-less
c)	455-9004.00-00013	Square 8mm	1.0 - 1.7 mm	Grounding clip	18 mm	tool-less
c)	455-9004.00-00018	Square 8mm	1.5 - 2.2 mm	Grounding clip	18 mm	tool-less
c)	455-9004.00-00026	Square 8mm	2.3 - 3.0 mm	Grounding clip	18 mm	tool-less

Accessories

d) 160 1-102 **Cams L35/45 steel**
d) 167 1-262 **Cam variable**
e) 182 2-151 **2-, 3- and 4-Point Cam Adapter**

Function extension

f) 200-1101.04-00000 **Grounding clip**

Safety Quarter-Turn Pr20.1 L18 [7-075]



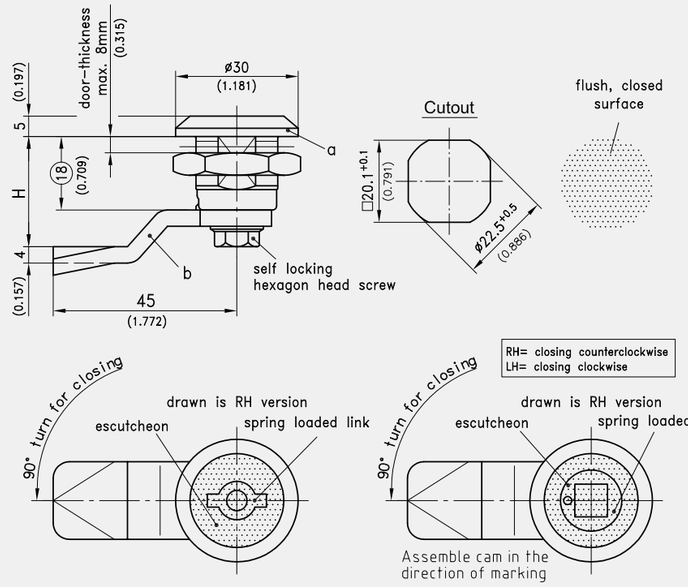
stainless steel AISI 316, for cutout 20.1, length 18, vibration-proof

Advantages

- Safety Quarter-Turn, vibration-proof with high compression force.
- With the double bit versions the key is captive in the open position, according to DIN 43668.
- IP65 according to DIN EN 60529.
- **Additional advantage:** completely closed surface.

Materials

- **Housing:** stainless steel AISI 316L
- **Insert, escutcheon, spring loaded link and pin:** stainless steel AISI 316



Quarter-Turn with insert

	Part Number	Insert	Housing length	Door-thickness	Version	Material	Installation type
a)	255-9429.00-00000	Double bit 3mm pin	18 mm	max. 8 mm	RH	Stainless Steel	screw-on
a)	255-9430.00-00000	Double bit 3mm pin	18 mm	max. 8 mm	LH	Stainless Steel	screw-on
a)	255-9409.00-00000	Double bit 5mm pin	18 mm	max. 8 mm	RH	Stainless Steel	screw-on
a)	255-9410.00-00000	Double bit 5mm pin	18 mm	max. 8 mm	LH	Stainless Steel	screw-on
a)	255-9402.00-00000	Square 7mm	18 mm	max. 8 mm	RH / LH	Stainless Steel	screw-on
a)	255-9403.00-00000	Square 8mm	18 mm	max. 8 mm	RH / LH	Stainless Steel	screw-on
a)	255-9405.00-00000	Triangular 8mm	18 mm	max. 8 mm	RH / LH	Stainless Steel	screw-on

Accessories

b) 162 7-105 **Cams L35/45 stainless steel**
167 1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**

Safety Quarter-Turn Pr20.1 L18

[1-085.01]



Nicely shaped safety Quarter-Turn with 18mm housing

Advantages

- RH / LH application.
- Vibration-proof according to DIN EN 61373 also at high sealing pressure, by built-in spring loaded link.
- IP65 according to DIN EN 60529.
- The Quarter-Turn can be screwed into the cutout with the pre-assembled cam.
- On request parts can be assembled.
- Grounding by single sided grounding nut.

Materials

a)

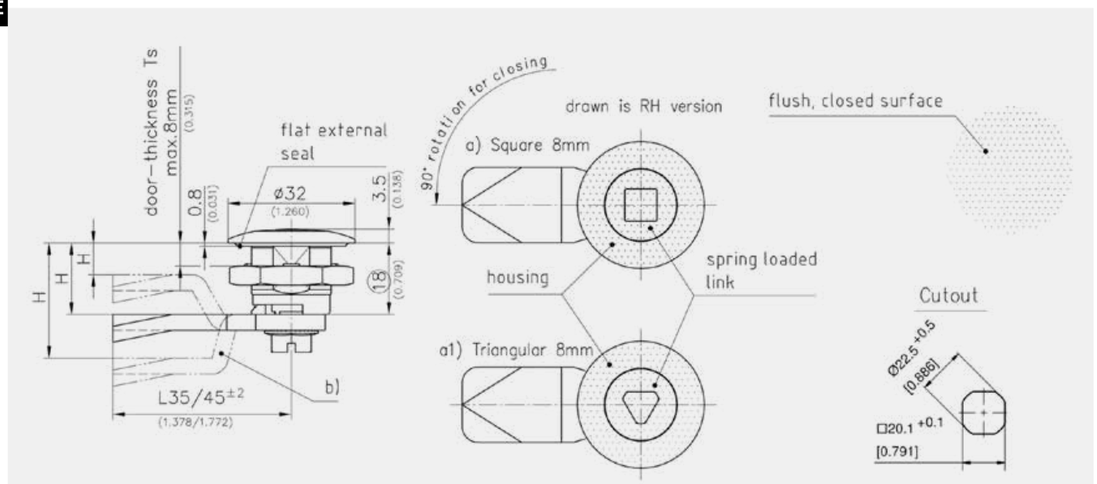
- **Housing, insert and spring loaded link:** zinc die, matt chrome plated
- **O-Ring and flat external seal:** NBR Perbunan, black
- **Grounding nut:** zinc die, untreated

b) and b1)

- **Cam:** steel, zinc plated

Remarks

Completely closed housing surface



Safety Quarter-Turn, pre-assembled, without cam

	Part Number	Housing length	Insert	Grounding type	Material	Surface	Installation type
a)	255-9813.00-00000	18 mm	Square 8mm	Grounding nut	zinc die	matt chrome plated	screw-on
a)	255-9814.00-00000	18 mm	Triangular 8mm	Grounding nut	zinc die	matt chrome plated	screw-on

	Accessories
	758 6-100 **Key**
b)	160 1-102 **Cams L35/45 steel**
b1)	167 1-262 **Cam variable**

Safety Quarter-Turn Pr20.1 L18

[7-074]



stainless steel AISI 316L

Advantages

- Flat version.
- Vibration-proof also at high sealing pressure.
- Fully closed external surface.
- IP65 according to DIN EN 60529.
- RH / LH application.
- A pre-assembled quarterturn can be inserted through the cutout.
- On request cam can be pre-assembled by DIRAK.

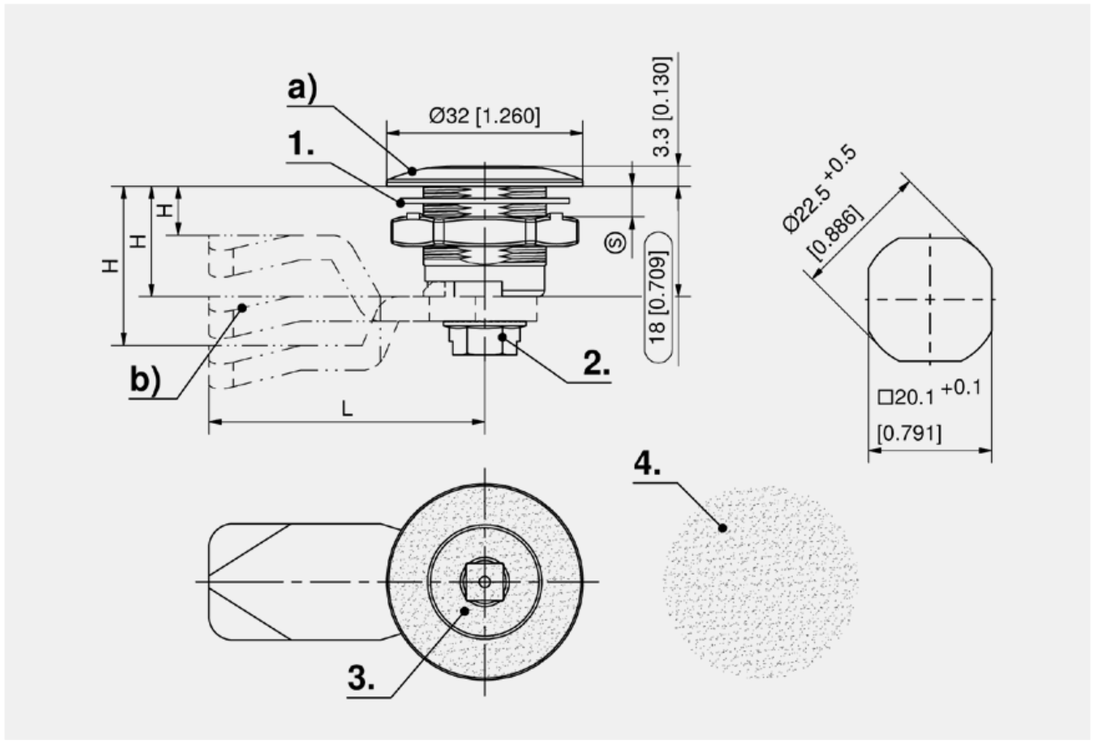
Materials

- **Housing, insert, spring loaded link and nut:** stainless steel AISI 316L
- **O-Ring and flat seal:** NBR Perbunan
- **Serrated screw and spring:** stainless steel AISI 304

Remarks

Attencion: An assembled cam will have some axial play on the insert. This play is necessary to neutralize tipping of the insert at high compression forces. This tipping will squeeze the spring loaded link.

1. Flat external seal
2. Serrated screw
3. Spring loaded link
4. Closed surface



Safety Quarter-Turn

	Part Number	Insert	Housing length	Door-thickness	Material
a)	255-9427.00-00000	Square 6mm	18 mm	max. 8 mm	Stainless Steel

	Accessories
b)	162 7-105 **Cams L35/45 stainless steel**

Quarter-Turn with FIAT Insert Pr.20.1 L 18 [1-086]



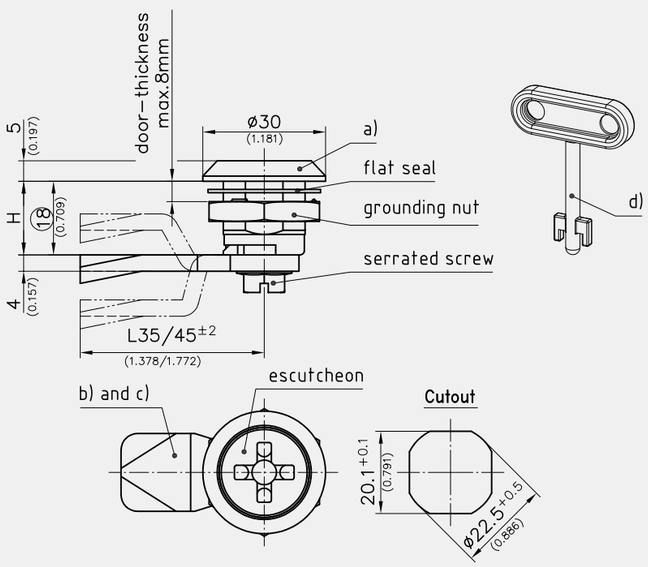
for cutout 20.1, length 18

Advantages

- Quarter-Turn with FIAT insert.
- Not possible without an appropriate key.
- The key is removable in 90° steps.
- RH / LH application.
- IP65 according to DIN EN 60529.
- Grounding by grounding nut.

Materials

- **Housing:** zinc die, chrome plated or black
- **Insert and escutcheon:** zinc die, chrome plated
- **Grounding nut:** zinc die
- **Flat external seal and O-Ring:** NBR/Perbunan, black
- **Serrated screw:** steel, zinc plated



Quarter-Turns

	Part Number	Housing length	Door-thickness	Insert	Grounding type	Material	Surface	Installation type
a)	255-9811.00-00000	18 mm	max. 8 mm	FIAT insert	Grounding nut	zinc die	chrome plated	screw-on
a)	255-9861.00-00000	18 mm	max. 8 mm	FIAT insert	Grounding nut	zinc die	black	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 167 1-262 **Cam variable**
c) 182 2-151 **2-, 3- and 4-Point Cam Adapter**

Specific accessories

d) 759 204-0302.42-00000 **FIAT key**

DST Quarter-Turn Pr32x20 L18 with FIAT Insert [1-086DST]



Advantages

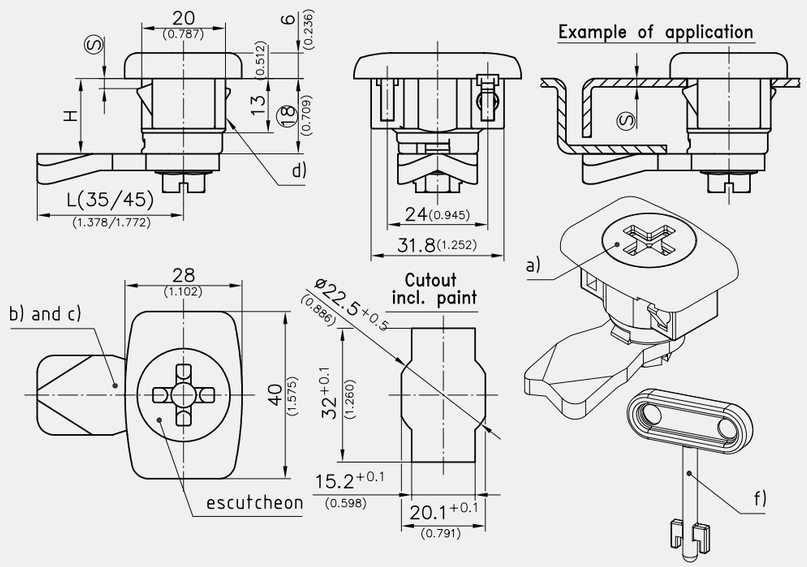
- Low profile Quarter-Turn with FIAT insert.
- Tool-less installation.
- Vibration-proof installation.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- The insert is not possible without an appropriate key.
- The key is removable in 90° steps.
- RH / LH application.
- Pre-assembly upon request.
- IP65 according to DIN EN 60529.
- Grounding by grounding clip.

Materials

- **Housing, insert and escutcheon:** zinc die, chrome plated
- **Snap wedges:** sintered steel
- **O-Ring:** NBR, black
- **Serrated screw:** steel, zinc plated

Remarks

ATTENTION:
H-dimension of the cam not less than ≥12mm(0.472)!



Quarter-Turns

	Part Number	Clamping range	Insert	Grounding type	Material	Surface	Installation type
a)	455-9003.00-00013	1.0 - 1.7 mm	FIAT insert	Grounding clip	zinc die	chrome plated	tool-less
a)	455-9003.00-00018	1.5 - 2.2 mm	FIAT insert	Grounding clip	zinc die	chrome plated	tool-less
a)	455-9003.00-00026	2.3 - 3.0 mm	FIAT insert	Grounding clip	zinc die	chrome plated	tool-less

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 167 1-262 **Cam variable**
c) 182 2-151 **2-, 3- and 4-Point Cam Adapter**

Function extension

d) 200-1101.04-00000 **Grounding clip**

Specific accessories

f) 759 204-0302.42-00000 **FIAT key**

Compression Latch Pr20.1

[1-070]



Advantages

- For application outside sealed area.
- Compression 4.5mm.
- RH / LH application.
- Vibration-proof according to DIN EN 61373.
- Matching dots mark the final position (see lower drawing).
- **A further advantage:** The double function is especially beneficial for pressurized enclosures. After the first 90° opening turn, the pressure can escape because the door is still latched.

Materials

- **Housing, insert, cam, frame-part and spacer:** zinc die, black
- **Fixing clip:** spring steel, zinc plated

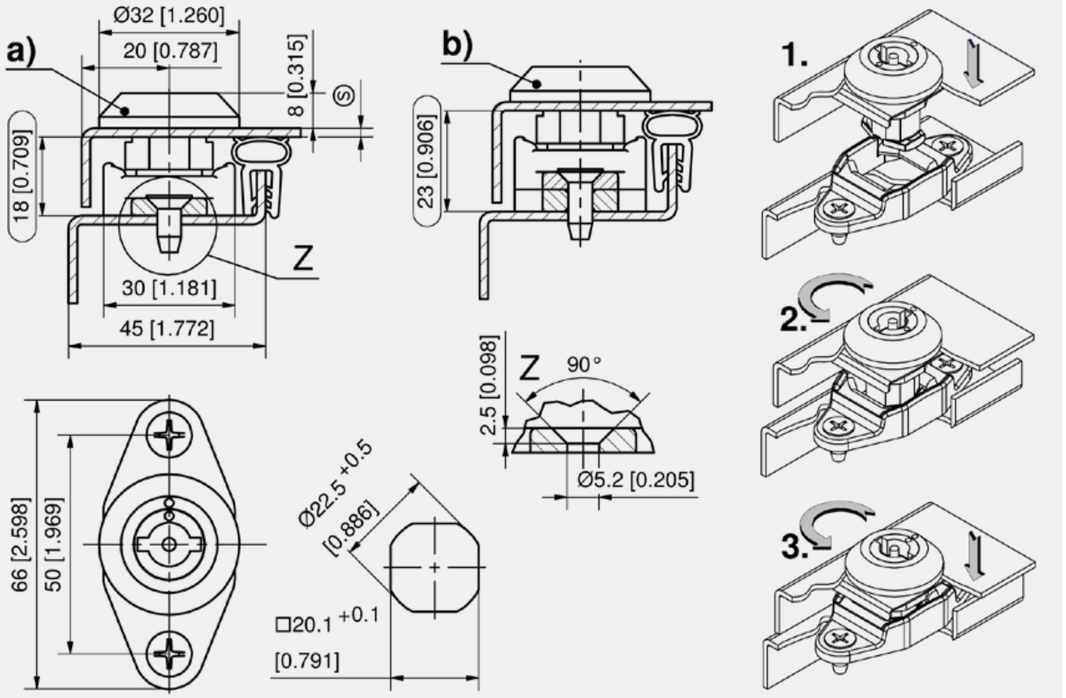
Remarks

1. = Close the door

2. = First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.

3. = A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

(S) door-thickness 1.5 [0.059] to 2.2mm [0.087].



Compression Latch

	Part Number	Insert	Version	Compression
a)	291-9005.00-00000	Double bit 3mm pin	for door bending 18mm	4,5
a)	291-9001.00-00000	Double bit 5mm pin	for door bending 18mm	4,5
a)	291-9004.00-00000	Triangular 8mm	for door bending 18mm	4,5
a)	291-9002.00-00000	Square 8mm	for door bending 18mm	4,5
a)	291-9003.00-00000	Slotted 2x4mm	for door bending 18mm	4,5
b)	291-9011.00-00000	Double bit 3mm pin	for door bending 23mm	4,5
b)	291-9007.00-00000	Double bit 5mm pin	for door bending 23mm	4,5
b)	291-9010.00-00000	Triangular 8mm	for door bending 23mm	4,5
b)	291-9008.00-00000	Square 8mm	for door bending 23mm	4,5
b)	291-9009.00-00000	Slotted 2x4mm	for door bending 23mm	4,5

Compression Latch Pr20.1

[1-071]



for cutout 20.1, very compact and tool-less installation

Advantages

- Compression 3mm (0.118).
- Vibration-proof.
- Fixed cam H-dimension 8mm (0.315), L36mm (1.417).
- RH / LH application.
- Tool-less installation with a spring clip.
- IP65 according to DIN EN 60529.
- A pre-assembled Quarter-Turn can be installed through the cutout.
- Marking on the casing top indicates the final position.

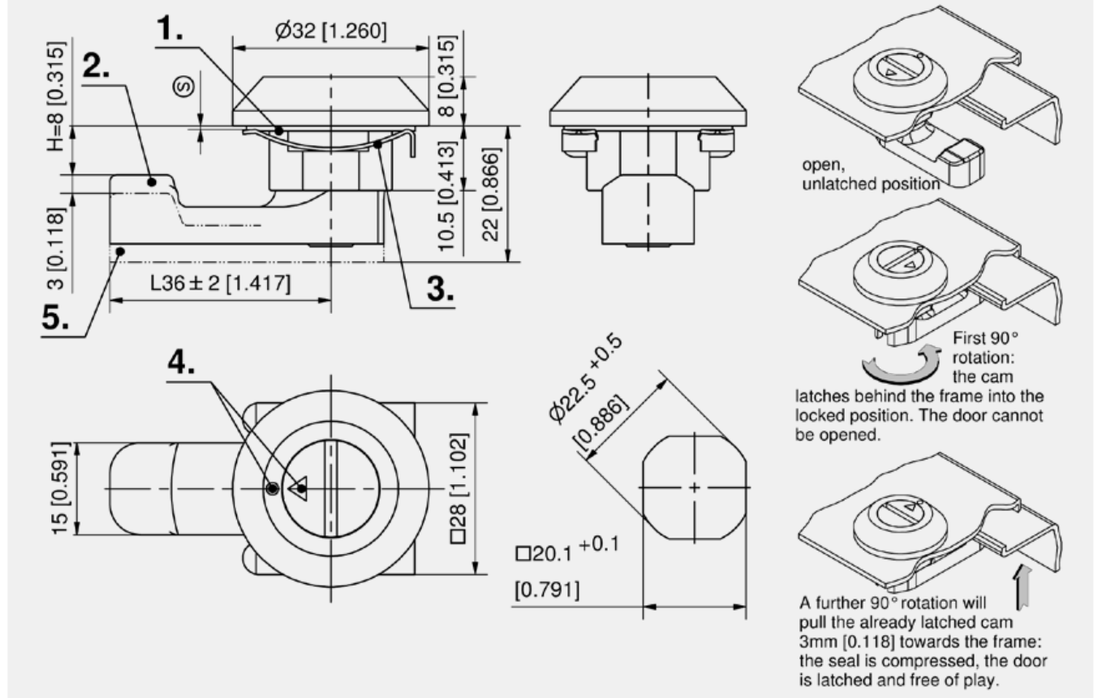
Materials

- **Housing, insert and cam:** zinc die, black
- **Fixing clip:** stainless steel
- **Flat external seal and o-ring:** NBR

Remarks

(S) door-thickness max. 2mm [0.079]

1. flat external seal
2. ramp 1.5mm [0.059]
3. fastening clip
4. markings
5. stroke



Compression Latch

Part Number	Insert	Construction depth opened	Door-thickness	Material	Surface	Installation type
291-9102.00-00000	Slotted 2x4mm	22 mm	max. 2 mm	zinc die	black	tool-less

Compression Latch Pr20.1

[1-077]



Advantages

- With fix H-dimension (depending on cam).
- RH and LH version.
- Low profile design.
- Compression 6.5mm(0.256).
- Vibration-proof.
- The coloured marking on the casing top represents the opened/closed position in form of a padlock.
- IP65 according to DIN EN 60529.
- Grounding by single sided grounding nut.
- The Compression Latch will be screwed into the cutout with the pre-assembled cam.

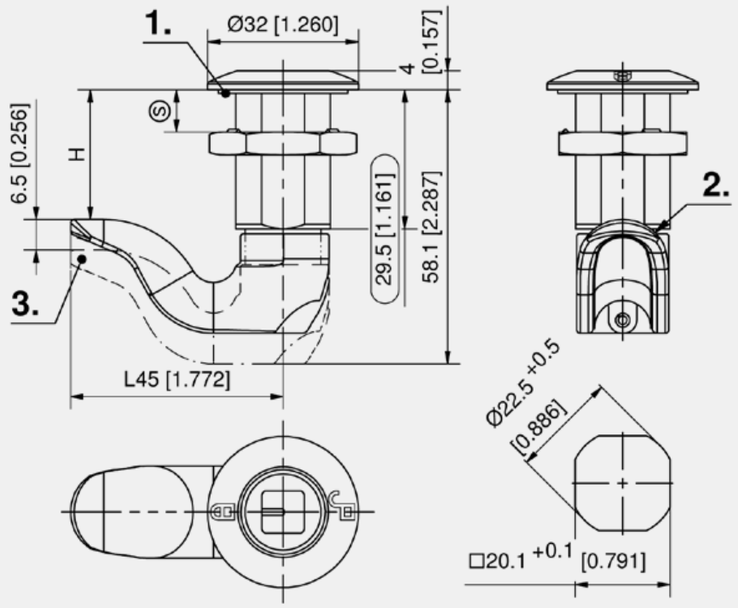
Materials

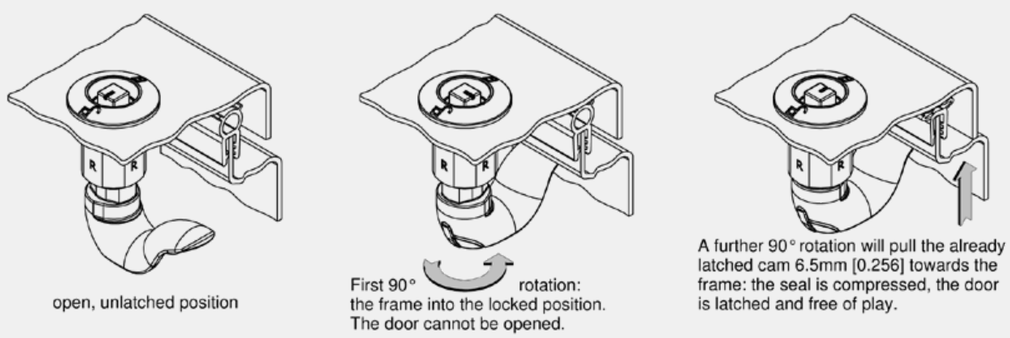
- **Housing, insert and cam:** zinc die, chrome plated
- **Plug:** PA6, black
- **O-Rings and flat external seal:** NBR
- **Serrated lock washer:** steel, zinc plated

Remarks

1. flat external seal
2. ramp raduis
3. stroke

(S) door-thickness max. 2.5mm





Compression Latch with insert, version RH

Part Number	Insert	H-dimension	Grounding type	Compression	Material	Surface
248-9303.00-00022	Square 8mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9303.00-00024	Square 8mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9303.00-00026	Square 8mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9303.00-00028	Square 8mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9303.00-00038	Square 8mm	38 mm	Grounding nut	6.5	zinc die	chrome plated
248-9308.00-00022	Triangular 8mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9308.00-00024	Triangular 8mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9308.00-00026	Triangular 8mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9308.00-00028	Triangular 8mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9308.00-00038	Triangular 8mm	38 mm	Grounding nut	6.5	zinc die	chrome plated

Compression Latch with insert, version LH

Part Number	Insert	H-dimension	Grounding type	Compression	Material	Surface
248-9353.00-00022	Square 8mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9353.00-00024	Square 8mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9353.00-00026	Square 8mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9353.00-00028	Square 8mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9353.00-00038	Square 8mm	38 mm	Grounding nut	6.5	zinc die	chrome plated
248-9358.00-00022	Triangular 8mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9358.00-00024	Triangular 8mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9358.00-00026	Triangular 8mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9358.00-00028	Triangular 8mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9358.00-00038	Triangular 8mm	38 mm	Grounding nut	6.5	zinc die	chrome plated

Compression Latch with insert, version RH

Part Number	Insert	H-dimension	Grounding type	Compression	Material	Surface
248-9309.00-00022	Conical square 9mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9309.00-00024	Conical square 9mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9309.00-00026	Conical square 9mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9309.00-00028	Conical square 9mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9309.00-00038	Conical square 9mm	38 mm	Grounding nut	6.5	zinc die	chrome plated

Compression Latch with insert, version LH

Part Number	Insert	H-dimension	Grounding type	Compression	Material	Surface
248-9359.00-00022	Conical square 9mm	22 mm	Grounding nut	6.5	zinc die	chrome plated
248-9359.00-00024	Conical square 9mm	24 mm	Grounding nut	6.5	zinc die	chrome plated
248-9359.00-00026	Conical square 9mm	26 mm	Grounding nut	6.5	zinc die	chrome plated
248-9359.00-00028	Conical square 9mm	28 mm	Grounding nut	6.5	zinc die	chrome plated
248-9359.00-00038	Conical square 9mm	38 mm	Grounding nut	6.5	zinc die	chrome plated

	Accessories
174	1-270 **Dust Caps and Sealing Plug Pr20.1**
758	6-100 **Key**
173	200-4601.00-00000 **Anti-rotation device**
173	200-4601.02-00000 **Anti-rotation device**
173	800-0064.00-00000 **Serrated lock washer**
173	840-6798.00-00023 **Serrated lock washer**

Compression Latch Pr20.1

[1-078]



Advantages

- Compression 6mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67 according to DIN EN 60529.
- The H-dimension can be varied via the cranking of the cams.
- Grounding by grounding nut.

Materials

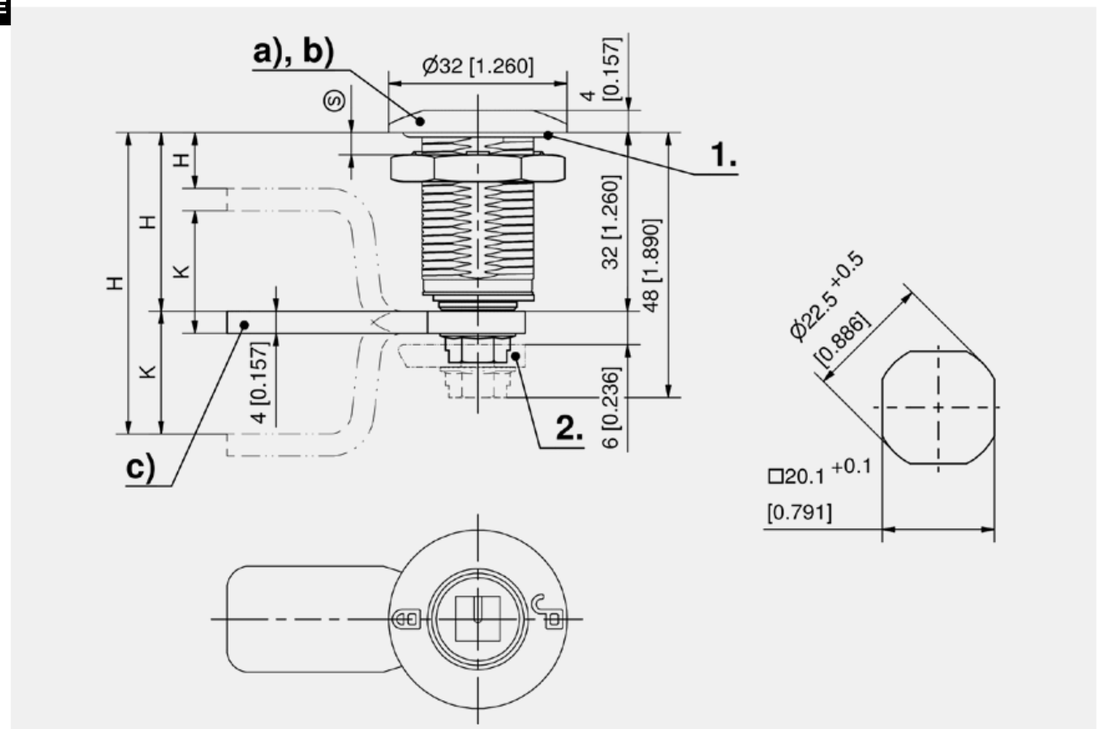
- **Housing, insert:** zinc die, chrome plated glossy
- **Axis:** steel, zinc plated
- **Grounding nut:** zinc die

Remarks

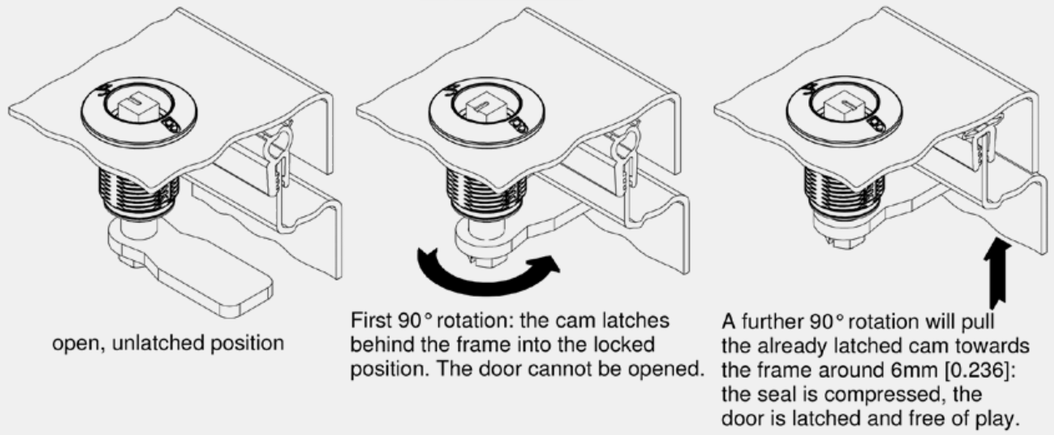
Negatively bent cams can **not** be installed pre-assembled.

1. Foamed sealing PUR
2. Compression 6mm

(S) door-thickness max. 22mm



Operation



open, unlatched position

First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.

A further 90° rotation will pull the already latched cam towards the frame around 6mm [0.236]: the seal is compressed, the door is latched and free of play.

Compression Latch, short axis

	Part Number	Insert	Version	Compression
a)	248-9802.01-01201	Square 8mm	RH	6
a)	248-9803.01-01201	Double bit 3mm pin	RH	6
a)	248-9804.01-01201	Double bit 5mm pin	RH	6
a)	248-9807.01-01201	Triangular 8mm	RH	6
a)	248-9808.01-01201	Conical square 9mm	RH	6
b)	248-9802.01-02201	Square 8mm	LH	6
b)	248-9803.01-02201	Double bit 3mm pin	LH	6
b)	248-9804.01-02201	Double bit 5mm pin	LH	6
b)	248-9807.01-02201	Triangular 8mm	LH	6
b)	248-9808.01-02201	Conical square 9mm	LH	6

		Accessories
	758	6-100 **Key**
c)	164	1-102.01 **Cams L35/45 without Ramp and Stop**
	174	200-4103.00-00000 **Dust cap**
	173	200-4601.00-00000 **Anti-rotation device**
	173	200-4601.02-00000 **Anti-rotation device**

Compression Latch Pr20.1

[7-078]



stainless steel AISI 316, low profile Compression latch

Advantages

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.
- Negatively bent cams can not be installed pre-assembled.

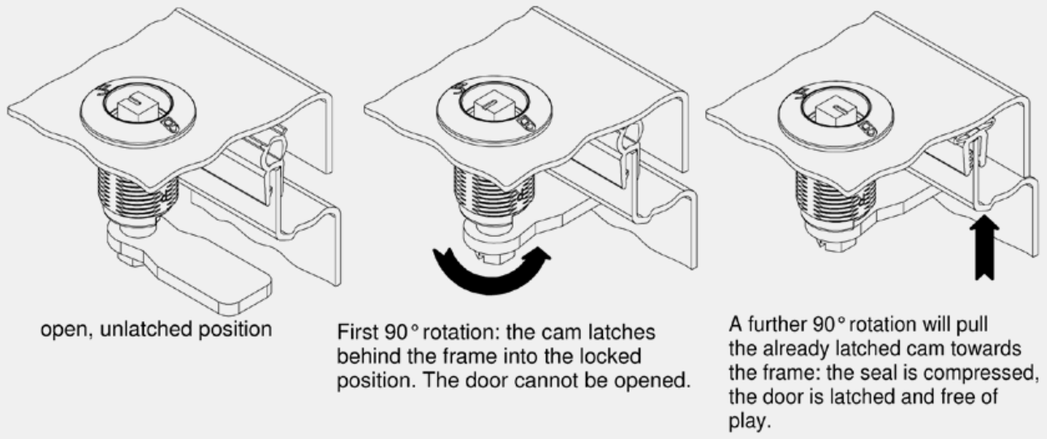
Materials

- **Housing, insert, axle and nut:** stainless steel AISI 316
- **Grounding nut:** stainless steel AISI 316L
- **Cam and serrated screw:** stainless steel AISI 304

Remarks

1. Foamed sealing PUR

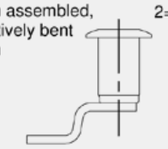
Operation

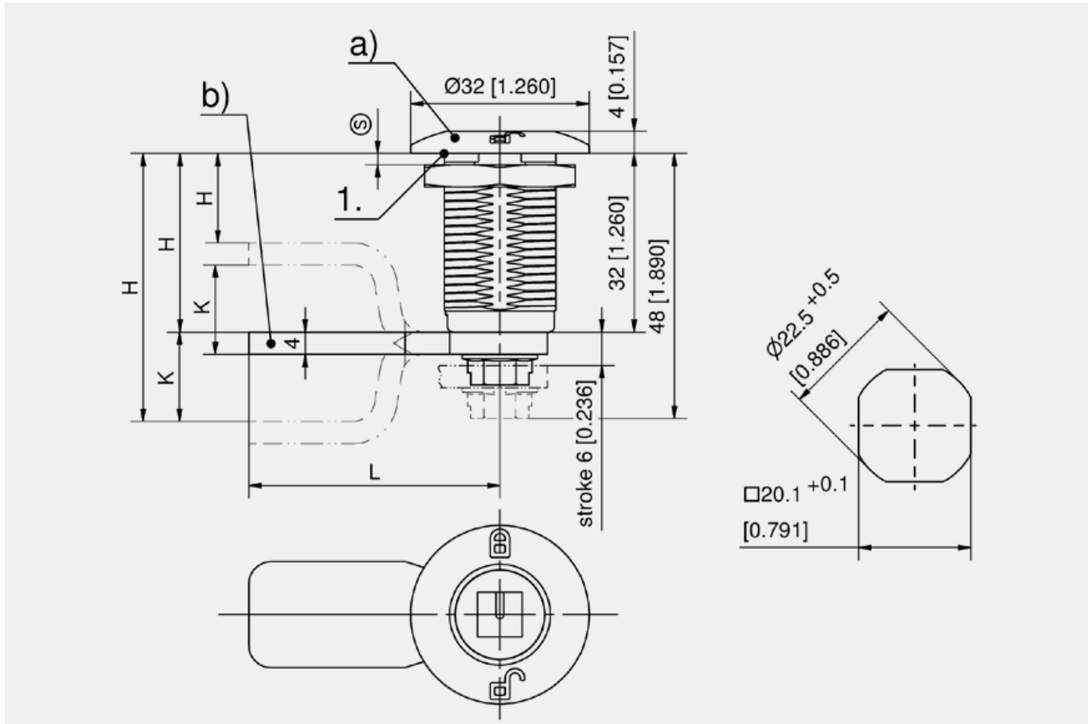


Compression Latch with Cam and Accessories

248-91AA.00- X Y L CC

Insert version and Design:	Accessories on table a):	Assembling of Cam:	length of Cam:	Cranked Cam CC:
RH or LH see table a)	0= without Accessories 1= Serrated lock washer 840-6798.00-00023 2= Dustcap 200-4103.00-00000 3= Serrated lock washer + Dustcap	0= without Cam 1= Cam not assembled 3= Cam assembled, positively bent Cam	0= without Cam 1= L35 2= L45	see table b)





Compression Latch with insert, version RH

	Part Number	Insert	Door-thickness	Grounding type	Construction depth
a)	248-9100.00-00000	Square 6mm	max. 22 mm	Grounding nut	48 mm
a)	248-9101.00-00000	Square 7mm	max. 22 mm	Grounding nut	48 mm
a)	248-9102.00-00000	Square 8mm	max. 22 mm	Grounding nut	48 mm
a)	248-9103.00-00000	Double bit 3mm pin	max. 22 mm	Grounding nut	48 mm
a)	248-9104.00-00000	Double bit 5mm pin	max. 22 mm	Grounding nut	48 mm
a)	248-9105.00-00000	Triangular 6.5mm	max. 22 mm	Grounding nut	48 mm
a)	248-9106.00-00000	Triangular 7mm	max. 22 mm	Grounding nut	48 mm
a)	248-9107.00-00000	Triangular 8mm	max. 22 mm	Grounding nut	48 mm
a)	248-9109.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	48 mm
a)	248-9108.00-00000	Conical square 9mm	max. 22 mm	Grounding nut	48 mm
a)	248-9110.00-00000	Conical triangular 7mm	max. 22 mm	Grounding nut	48 mm

Compression Latch with insert, version LH

	Part Number	Insert	Door-thickness	Grounding type	Construction depth
a)	248-9150.00-00000	Square 6mm	max. 22 mm	Grounding nut	48 mm
a)	248-9151.00-00000	Square 7mm	max. 22 mm	Grounding nut	48 mm
a)	248-9152.00-00000	Square 8mm	max. 22 mm	Grounding nut	48 mm
a)	248-9153.00-00000	Double bit 3mm pin	max. 22 mm	Grounding nut	48 mm
a)	248-9154.00-00000	Double bit 5mm pin	max. 22 mm	Grounding nut	48 mm
a)	248-9155.00-00000	Triangular 6.5mm	max. 22 mm	Grounding nut	48 mm
a)	248-9156.00-00000	Triangular 7mm	max. 22 mm	Grounding nut	48 mm
a)	248-9157.00-00000	Triangular 8mm	max. 22 mm	Grounding nut	48 mm
a)	248-9159.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	48 mm
a)	248-9158.00-00000	Conical square 9mm	max. 22 mm	Grounding nut	48 mm
a)	248-9160.00-00000	Conical triangular 7mm	max. 22 mm	Grounding nut	48 mm

		Accessories
	758	6-100 **Key**
b)	165	7-105.01 **Cams L35/45 without Ramp and Stop**
	174	200-4103.00-00000 **Dust cap**
	173	200-4601.00-00000 **Anti-rotation device**
	173	200-4601.02-00000 **Anti-rotation device**

Compression Latch Pr20.1

[1-079]



Advantages

- Compression 6mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67 according to DIN EN 60529.
- The H-dimension can be varied via the cranking of the cams.
- Grounding by grounding nut.

Materials

- **Housing, insert:** zinc die, chrome plated glossy
- **Threaded square rod:** steel, zinc plated
- **Grounding nut:** zinc die

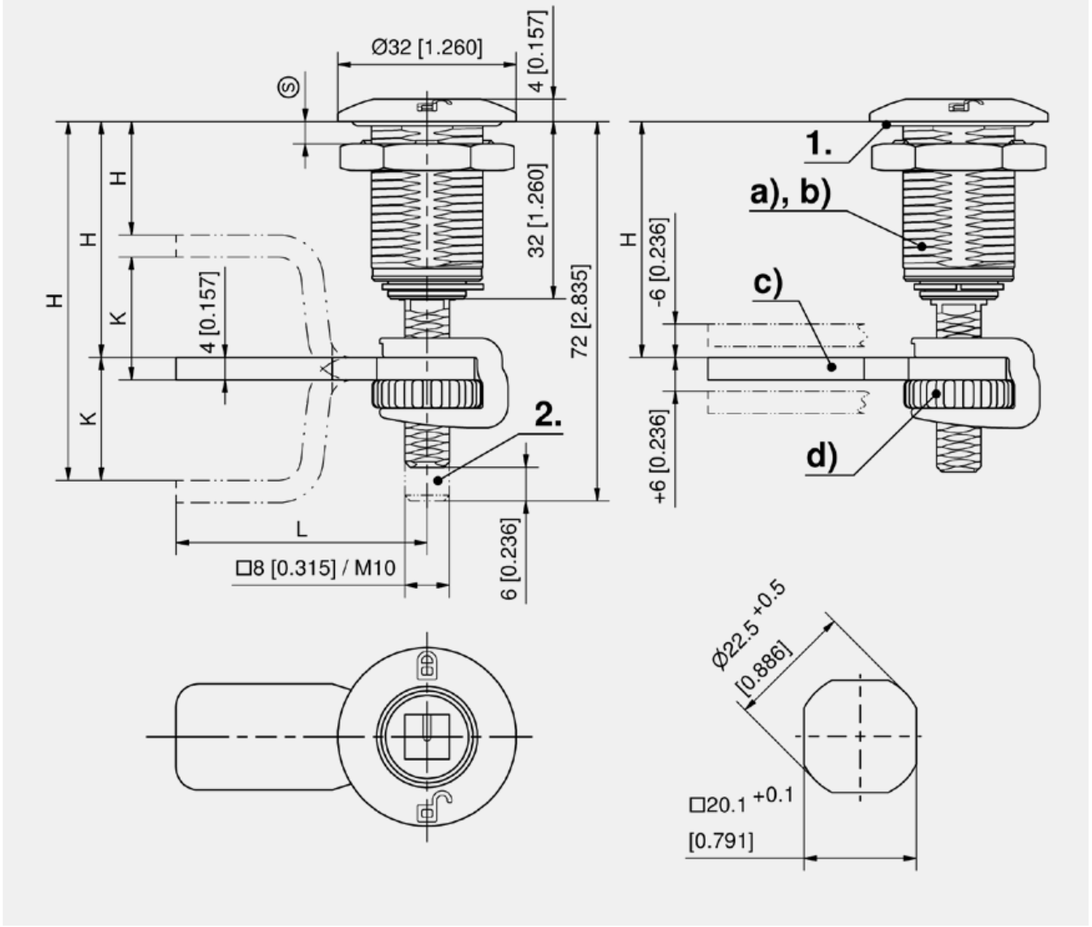
Remarks

The cam can be varied to axis via catch with thumb wheel adjustment 2-151.02SL.

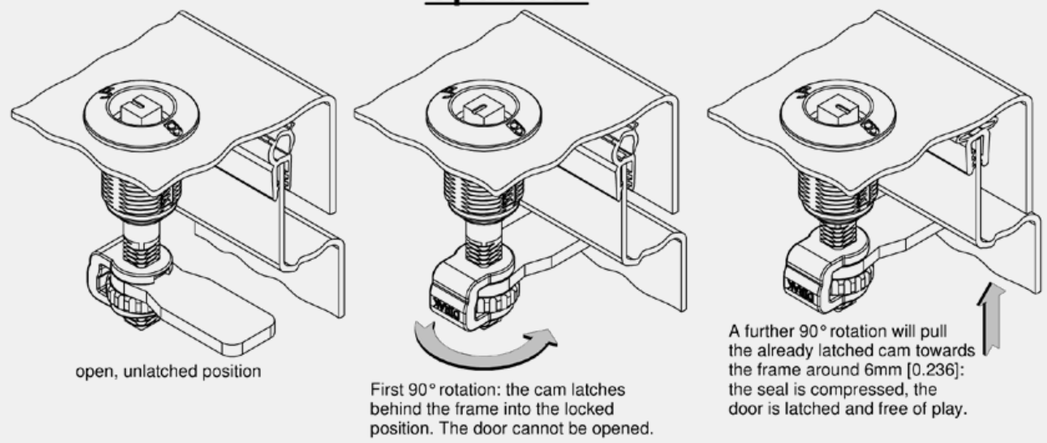
1. = foamed sealing PUR

2. = compression 6mm

(S) door-thickness max. 22mm



Operation



Compression Latch, long axis

	Part Number	Insert	Version	Compression	variable H-dimension
a)	248-9802.01-11201	Square 8mm	RH	6	17 - 73 mm
a)	248-9803.01-11201	Double bit 3mm pin	RH	6	17 - 73 mm
a)	248-9804.01-11201	Double bit 5mm pin	RH	6	17 - 73 mm
a)	248-9807.01-11201	Triangular 8mm	RH	6	17 - 73 mm
a)	248-9808.01-11201	Conical square 9mm	RH	6	17 - 73 mm
b)	248-9802.01-12201	Square 8mm	LH	6	17 - 73 mm
b)	248-9803.01-12201	Double bit 3mm pin	LH	6	17 - 73 mm
b)	248-9804.01-12201	Double bit 5mm pin	LH	6	17 - 73 mm
b)	248-9807.01-12201	Triangular 8mm	LH	6	17 - 73 mm
b)	248-9808.01-12201	Conical square 9mm	LH	6	17 - 73 mm

		Accessories
	758	6-100 **Key**
c)	164	1-102.01 **Cams L35/45 without Ramp and Stop**
d)	178	2-151.02 **Catch for standard Cams**
	174	200-4103.00-00000 **Dust cap**
	173	200-4601.00-00000 **Anti-rotation device**
	173	200-4601.02-00000 **Anti-rotation device**

Compression Latch Pr20.1

[7-079]



stainless steel AISI 316, low profile Compression latch

Advantages

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.
- The cam can be varied to ±6 mm (0.236) via nuts (included) on the axis.

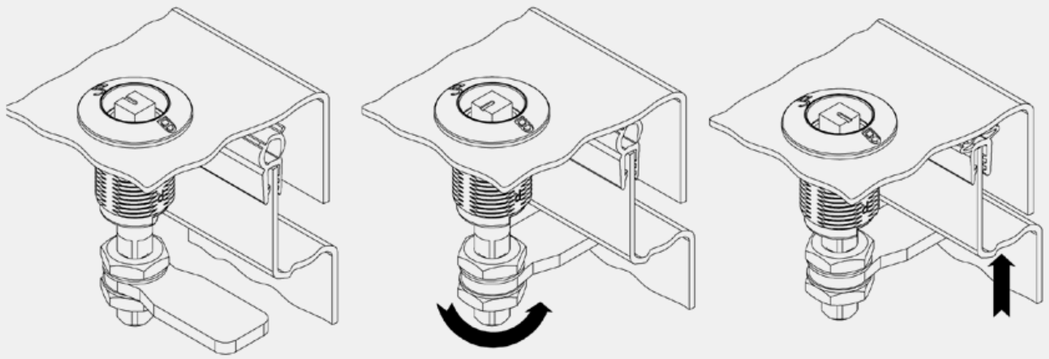
Materials

- **Housing, insert and axle:** stainless steel AISI 316
- **Grounding nut:** stainless steel AISI 316L
- **Cam, serrated washer and nuts M8:** stainless steel AISI 304

Remarks

1. Foamed sealing PUR

Operation



open, unlatched position

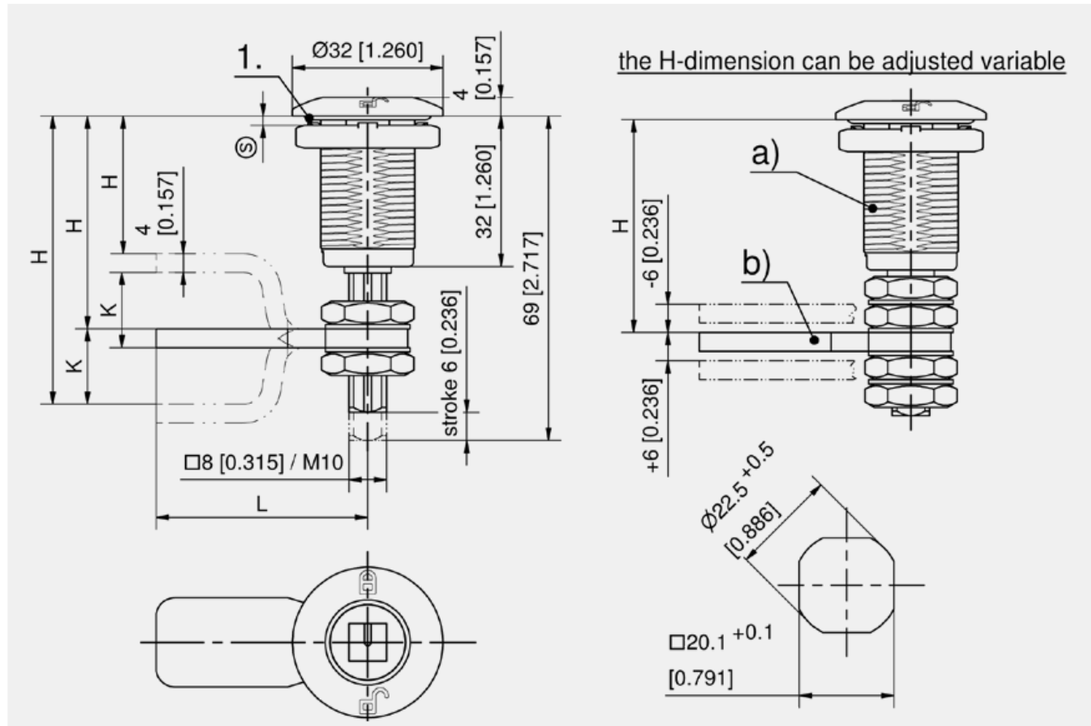
First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.

A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

Compression Latch with Cam and Accessories

248-92AA.00- X Y L CC

Insert version and Design:	Accessories on table a):	Assembling of Cam:	length of Cam:	Cranked Cam CC:
RH or LH see table a)	0= without Accessories 1= Serrated lock washer 840-6798.00-00023 2= Dustcap 200-4103.00-00000 3= Serrated lock washer + Dustcap	0= without Cam 1= Cam not assembled (attached loose)	0= without Cam 1= L35 2= L45	see table b)



Compression Latch, version RH

	Part Number	Insert	Door-thickness	Grounding type	Construction depth	variable H-dimension
a)	248-9200.00-00000	Square 6mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9201.00-00000	Square 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9202.00-00000	Square 8mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9203.00-00000	Double bit 3mm pin	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9204.00-00000	Double bit 5mm pin	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9205.00-00000	Triangular 6.5mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9206.00-00000	Triangular 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9208.00-00000	Conical square 9mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9207.00-00000	Triangular 8mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9209.00.00000	Hex.SW 11	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9210.00.00000	Conical triangular 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm

Compression Latch, version LH

	Part Number	Insert	Door-thickness	Grounding type	Construction depth	variable H-dimension
a)	248-9250.00-00000	Square 6mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9251.00-00000	Square 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9252.00-00000	Square 8mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9253.00-00000	Double bit 3mm pin	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9254.00-00000	Double bit 5mm pin	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9255.00-00000	Triangular 6.5mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9256.00-00000	Triangular 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9257.00-00000	Triangular 8mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9258.00-00000	Conical square 9mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9259.00.00000	Hex.SW 11	max. 22 mm	Grounding nut	69 mm	17 - 73 mm
a)	248-9260.00.00000	Conical triangular 7mm	max. 22 mm	Grounding nut	69 mm	17 - 73 mm

		Accessories
b)	758	6-100 **Key**
b)	165	7-105.01 **Cams L35/45 without Ramp and Stop**
	180	7-077 **Height Adjustable Cam L45**
	174	200-4103.00-00000 **Dust cap**
	173	200-4601.00-00000 **Anti-rotation device**
	173	200-4601.02-00000 **Anti-rotation device**

DST Compression Latch Pr32x20 L22/28 [1-081DST]

DST

DIN 61373

R L

IP 65

RoHS WEEE



Advantages

- Flush Quarter-Turn with planetary gear.
- For Snap-in installation into cutout 32x20.1mm.
- Tool-less installation.
- Vibration-proof according to DIN EN 61373.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- RH / LH application, must not be converted when the door is changed.
- High transmission ratio with compression path 10-20mm (1.).
- The Compression Latch can be snapped-in into the cutout as a completely pre-assembled unit.
- Rolling friction by cam with POM-roller.
- IP65 according to DIN EN 60529.

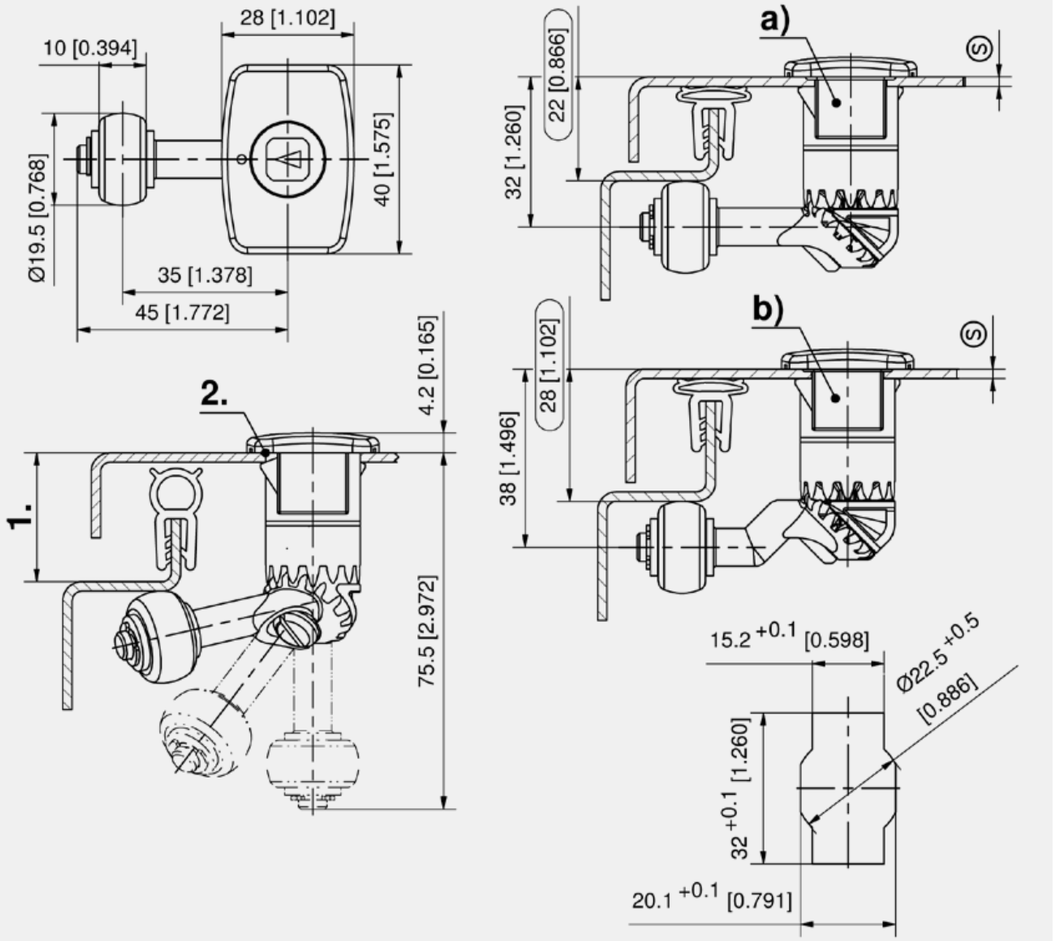
Materials

- **Housing and insert:** zinc die, chrome plated
- **Cam:** zinc die, zinc plated
- **Snap wedges:** sintered steel
- **Spring:** spring steel
- **Washer:** steel, zinc plated
- **Roller:** POM, matt black
- **Cover:** PA6, black
- **O-Ring:** NBR, black
- **Collar screw:** steel

Remarks

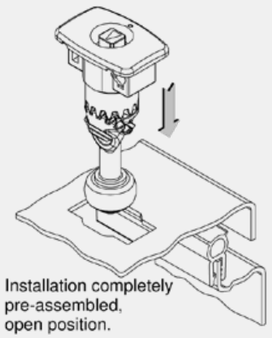
Closing- and opening operation 180°, left and right turning, positive detent in closed and open position.

1. Compression
2. O-ring

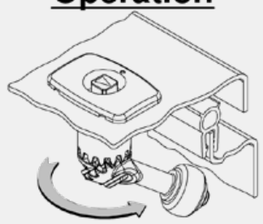


Quarter-Turns

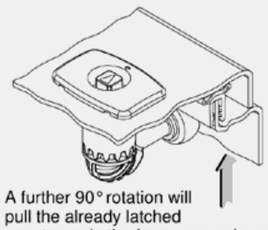
Operation



Installation completely pre-assembled, open position.



First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.



A further 90° rotation will pull the already latched cam towards the frame around approx. 20mm [0.787]: the seal is compressed, the door is latched and free of play.

Compression Latch with insert, bending 22

	Part Number	Insert	Clamping range	H-dimension	Compression	Installation type
a)	448-9101.00-01012	Square 8mm	0.8 - 1.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-01016	Square 8mm	1.3 - 2.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-01020	Square 8mm	1.8 - 2.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-01026	Square 8mm	2.3 - 3.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-01031	Square 8mm	2.8 - 3.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-02012	Double bit 3mm pin	0.8 - 1.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-02016	Double bit 3mm pin	1.3 - 2.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-02020	Double bit 3mm pin	1.8 - 2.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-02026	Double bit 3mm pin	2.3 - 3.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-02031	Double bit 3mm pin	2.8 - 3.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-03012	Double bit 5mm pin	0.8 - 1.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-03016	Double bit 5mm pin	1.3 - 2.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-03020	Double bit 5mm pin	1.8 - 2.5 mm	22 mm	max. 20	tool-less
a)	448-9101.00-03026	Double bit 5mm pin	2.3 - 3.0 mm	22 mm	max. 20	tool-less
a)	448-9101.00-03031	Double bit 5mm pin	2.8 - 3.5 mm	22 mm	max. 20	tool-less

Compression Latch with insert, bending 28

	Part Number	Insert	Clamping range	H-dimension	Compression	Installation type
b)	448-9102.00-01012	Square 8mm	0.8 - 1.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-01016	Square 8mm	1.3 - 2.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-01020	Square 8mm	1.8 - 2.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-01026	Square 8mm	2.3 - 3.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-01031	Square 8mm	2.8 - 3.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-02012	Double bit 3mm pin	0.8 - 1.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-02016	Double bit 3mm pin	1.3 - 2.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-02020	Double bit 3mm pin	1.8 - 2.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-02026	Double bit 3mm pin	2.3 - 3.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-02031	Double bit 3mm pin	2.8 - 3.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-03012	Double bit 5mm pin	0.8 - 1.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-03016	Double bit 5mm pin	1.3 - 2.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-03020	Double bit 5mm pin	1.8 - 2.5 mm	28 mm	max. 20	tool-less
b)	448-9102.00-03026	Double bit 5mm pin	2.3 - 3.0 mm	28 mm	max. 20	tool-less
b)	448-9102.00-03031	Double bit 5mm pin	2.8 - 3.5 mm	28 mm	max. 20	tool-less

Compression Latch Pr20.1

[1-081]

20 | DIN 61373 | R L | IP 65 | 15 Nm | RoHS WEEE



Advantages

- Compression Latch with 6.5mm compression.
- Version RH and LH.
- Vibration-proof according to DIN 60373.
- Please configure the Quarter-turn with insert and cam.
- By turning the insert 90° the cam is at first put into closed position.
- By turning a further 90°, the cam will be pulled towards the frame.
- Matching dots mark the final position (see lower drawing).
- The H-dimension can be adjusted by the adjusting screw.
- IP65 according to DIN EN 60529.

Materials

a)

- **Housing:** zinc die, chrome plated or black

b)

- **Insert:** brass, chrome plated, zinc die, black or chrome plated
- **Drip handle:** zinc die, black
- **Spring:** stainless steel

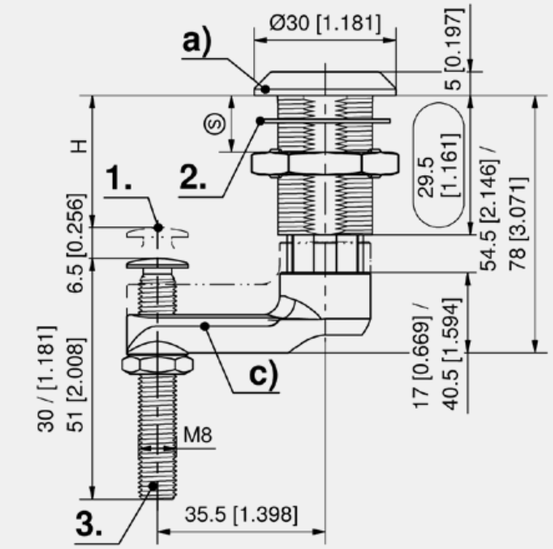
c)

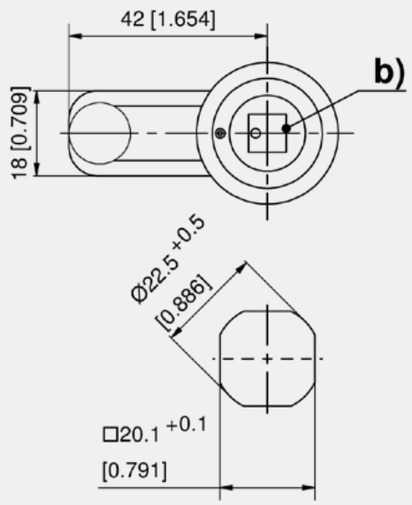
- **Cam:** zinc die, chrome plated
- **Adjusting screw:** steel, zinc plated
- **Nut:** steel, zinc plated

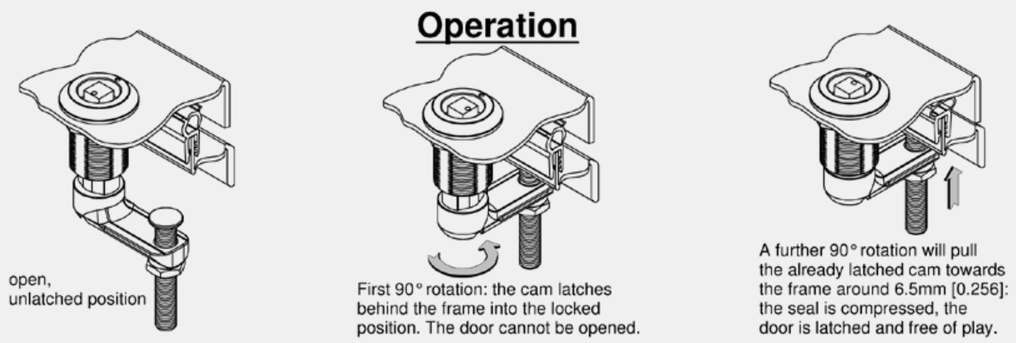
Remarks

(S) max. 23mm

1. Compression 6.5mm
2. Flat external seal
3. Adjusting screw







Compression Latch

	Part Number	Door-thickness	Compression	Closing stroke	Grounding type	Material	Surface	Installation type
a)	100-9001.00-00000	max. 22 mm	6.5	clockwise		zinc die	chrome plated	screw-on
a)	100-9002.00-00000	max. 22 mm	6.5	clockwise	Grounding nut	zinc die	chrome plated	screw-on
a)	100-9013.00-00000	max. 22 mm	6.5	counter clockwise	Grounding nut	zinc die	chrome plated	screw-on
a)	100-9014.00-00000	max. 22 mm	6.5	clockwise	Grounding nut	zinc die	black	screw-on
a)	100-9015.00-00000	max. 22 mm	6.5	counter clockwise	Grounding nut	zinc die	black	screw-on

Inserts

	Part Number	Insert	Version	Material	Surface
b)	100-9104.00-00000	Square 7mm		zinc die	chrome plated
b)	100-9105.00-00000	Square 8mm		zinc die	chrome plated
b)	100-9106.00-00000	Triangular 7mm		zinc die	chrome plated
b)	100-9107.00-00000	Triangular 8mm		zinc die	chrome plated
b)	100-9103.00-00000	Double bit 3mm pin		zinc die	chrome plated
b)	100-9102.00-00000	Double bit 5mm pin		zinc die	chrome plated
b)	100-9114.00-00000	Socket hex. 8mm (5/16")		zinc die	chrome plated
b)	100-9123.00-00000	Socket hex. 8mm (5/16")		zinc die	black
b)	100-9101.00-00000	Socket hex. 10mm		zinc die	chrome plated
b)	100-9132.00-00000	Hex. 7/16"		zinc die	chrome plated
b)	100-9109.00-00000	Slotted 2x4mm		zinc die	chrome plated
b)	100-9110.00-00000	Drop handle	cam in line with the handle	zinc die	chrome plated
b)	100-9111.00-00000	Drop handle	cam 90° to the handle	zinc die	chrome plated

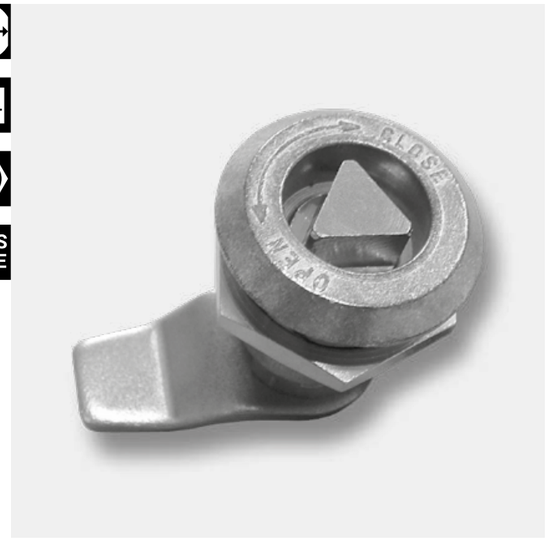
Cams

	Part Number	variable H-dimension	Version	Material	Surface
c)	200-9611.00-00000	0 - 37 mm	A=17, Adjustable screw 51mm	zinc die	chrome plated
c)	200-9610.00-00000	21 - 34 mm	A=17, Adjustable screw 30mm	zinc die	chrome plated
c)	200-9613.00-00000	24 - 60 mm	B=40.5, Adjustable screw 51mm	zinc die	chrome plated
c)	200-9612.00-00000	45 - 60 mm	B=40.5, Adjustable screw 30mm	zinc die	chrome plated
c)	200-9614.00-00000	0 - 37 mm	A=17, Adjustable screw 51mm	zinc die	chrome plated
c)	200-9618.00-00000	21 - 34 mm	A=17, Adjustable screw 30mm	zinc die	chrome plated

Assembly options
200-0064.00-00000 **Assembling (must be ordered)**
200-0070.00-00000 **Assembling drip handle 90° door LH**
200-0071.00-00000 **Assembling drip handle 90° door RH**

Clamping Quarter-Turn 21.6

[1-080]



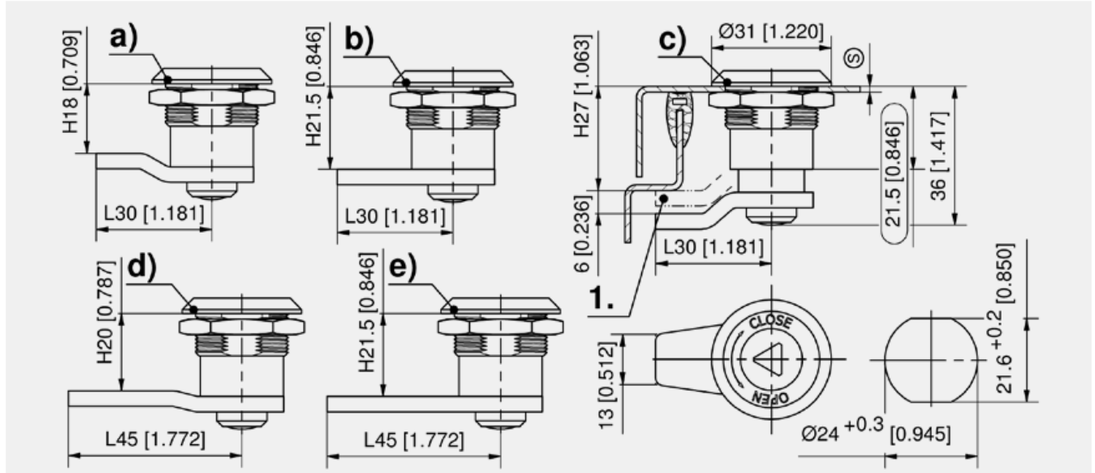
for cutout 21.6

Advantages

- Clamping Quarter-Turn with 6mm compression stroke.
- RH / LH application.
- Vibration-proof.
- The closing process is always clockwise.
- By turning the insert 90° the cam is at first put into closed position.
- Continuing rotation to the right (5x) will pull the cam towards the door.

Materials

- **Housing:** zinc die, zinc plated
- **Insert:** brass, nickel plated
- **Spring and Cam:** stainless steel
- **Nut:** steel, zinc plated



Clamping Quarter-Turn zinc die with insert and cam

	Part Number	Insert	Door-thickness	H-dimension	Length of cam	Compression stroke	Surface
a)	248-9001.35-00000	Square 7mm	max. 6 mm	18 mm	L 30	6	zinc plated
a)	248-9002.35-00000	Square 8mm	max. 6 mm	18 mm	L 30	6	zinc plated
a)	248-9004.35-00000	Triangular 8mm	max. 6 mm	18 mm	L 30	6	zinc plated
a)	248-9006.35-00000	Double bit 3mm pin	max. 6 mm	18 mm	L 30	6	zinc plated
a)	248-9007.35-00000	Double bit 5mm pin	max. 6 mm	18 mm	L 30	6	zinc plated
b)	248-9010.35-00000	Square 8mm	max. 6 mm	21.5 mm	L 30	6	zinc plated
b)	248-9011.35-00000	Triangular 7mm	max. 6 mm	21.5 mm	L 30	6	zinc plated
b)	248-9015.35-00000	Double bit 5mm pin	max. 6 mm	21.5 mm	L 30	6	zinc plated
b)	248-9016.35-00000	Slotted 2x4mm	max. 6 mm	21.5 mm	L 30	6	zinc plated
c)	248-9018.35-00000	Square 8mm	max. 6 mm	27 mm	L 30	6	zinc plated
c)	248-9019.35-00000	Triangular 7mm	max. 6 mm	27 mm	L 30	6	zinc plated
c)	248-9020.35-00000	Triangular 8mm	max. 6 mm	27 mm	L 30	6	zinc plated
c)	248-9022.35-00000	Double bit 3mm pin	max. 6 mm	27 mm	L 30	6	zinc plated
c)	248-9023.35-00000	Double bit 5mm pin	max. 6 mm	27 mm	L 30	6	zinc plated
c)	248-9024.35-00000	Slotted 2x4mm	max. 6 mm	27 mm	L 30	6	zinc plated
d)	248-9025.35-00000	Square 7mm	max. 6 mm	20 mm	L 45	6	zinc plated
d)	248-9026.35-00000	Square 8mm	max. 6 mm	20 mm	L 45	6	zinc plated
d)	248-9030.35-00000	Double bit 3mm pin	max. 6 mm	20 mm	L 45	6	zinc plated
e)	248-9033.35-00000	Square 7mm	max. 6 mm	21.5 mm	L 45	6	zinc plated
e)	248-9034.35-00000	Square 8mm	max. 6 mm	21.5 mm	L 45	6	zinc plated
e)	248-9035.35-00000	Triangular 7mm	max. 6 mm	21.5 mm	L 45	6	zinc plated
e)	248-9036.35-00000	Triangular 8mm	max. 6 mm	21.5 mm	L 45	6	zinc plated
e)	248-9038.35-00000	Double bit 3mm pin	max. 6 mm	21.5 mm	L 45	6	zinc plated
e)	248-9039.35-00000	Double bit 5mm pin	max. 6 mm	21.5 mm	L 45	6	zinc plated



DST Quarter-Turn Pr32x20 L18

See page 82

Quarter-Turn Polyamide Pr20.1 L18

[1-095]



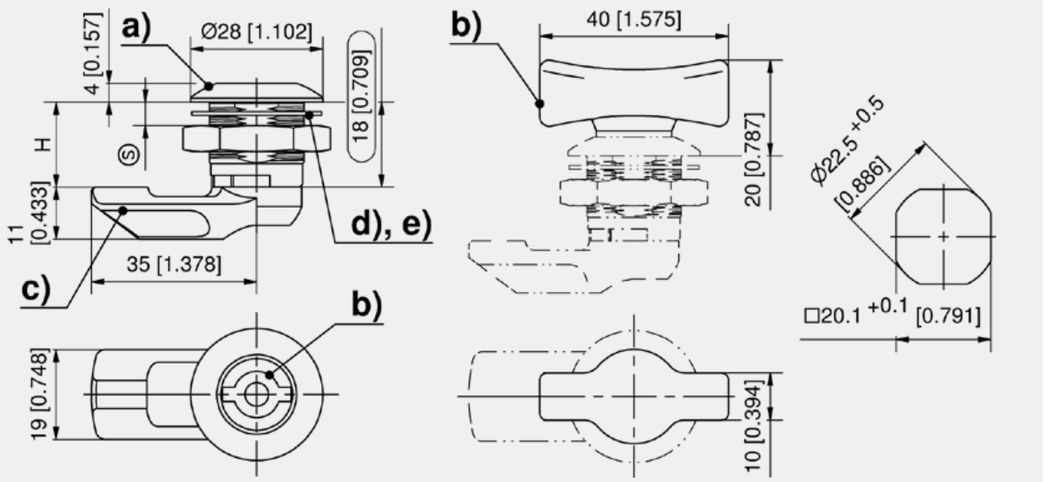
for cutout 20.1, length 18, Polyamide

Advantages

- Polyamide Quarter-Turn double insulated.
- RH or LH application.
- Pre-assembling by DIRAK is advisable.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- IP65 according to DIN EN 60529 by using sealing kit 209-9002.
- IP67 by using sealing kit.

Materials

- **Housing, insert and cam:** PA, black



Housing, PA

	Part Number	Housing length	Door-thickness	Version	Grounding type	Installation type
a)	200-9077.00-00000	18 mm	max. 8 mm	with Nut, PA		screw-on
a)	200-9003.00-00000	18 mm	max. 8 mm	with Nut, steel, zinc plated		screw-on
a)	200-9044.00-00000	18 mm	max. 8 mm	with Grounding nut, stainless steel	Grounding nut	screw-on
a)	200-9064.00-00000	18 mm	max. 8 mm	with Grounding nut (stainless steel), flat external seal, grounding clip	Grounding clip	screw-on

Insert with spring washer + screw

	Part Number	Insert	Material	Surface
b)	200-9155.00-00000	Square 7mm	PA	black
b)	200-9156.00-00000	Square 8mm	PA	black
b)	200-9158.00-00000	Triangular 8mm	PA	black
b)	200-9159.00-00000	Double bit 3mm pin	PA	black
b)	200-9160.00-00000	Double bit 5mm pin	PA	black
b)	200-9161.00-00000	Slotted 2x4mm	PA	black
b)	200-9173.00-00000	Wing knob	PA	black
b)	200-9184.00-00000	Crescent czech	PA	black
b)	200-9186.00-00000	Slotted recessed coinproof	PA	black

Cams PA, L45

	Part Number	H-dimension	Stop	Material	Surface
c)	200-5318.00-00000	18 mm	Yes	PA	black
c)	200-5320.00-00000	20 mm	Yes	PA	black
c)	200-5322.00-00000	22 mm	Yes	PA	black
c)	200-5325.00-00000	25 mm	Yes	PA	black
c)	200-5328.00-00000	28 mm	Yes	PA	black

Accessories

c1) 160 1-102 **Cams L35/45 steel**

Assembly options

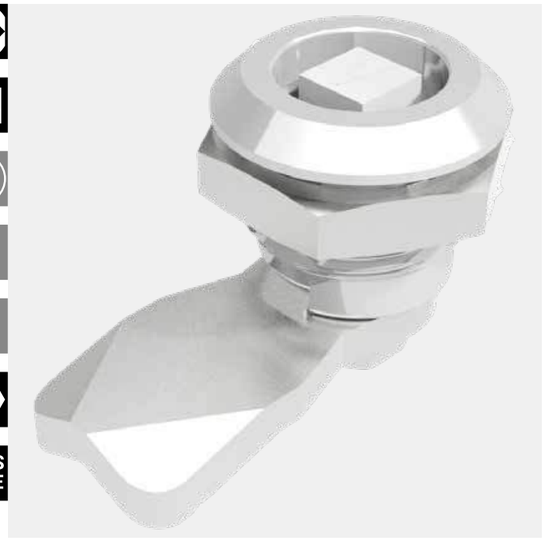
200-0002.00-00000 **Assembling cam with o-ring**
200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
200-0033.00-00000 **Assembling cam 90° to handle with o-ring**

Function extension

d)-e) 209-9001.00-00000 **Sealing kit IP67 for 200-Quarter-Turns**
d)-e) 209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Quarter-Turn Pr20.1 L18

[1-100]



for cutout 20.1, length 18

Advantages

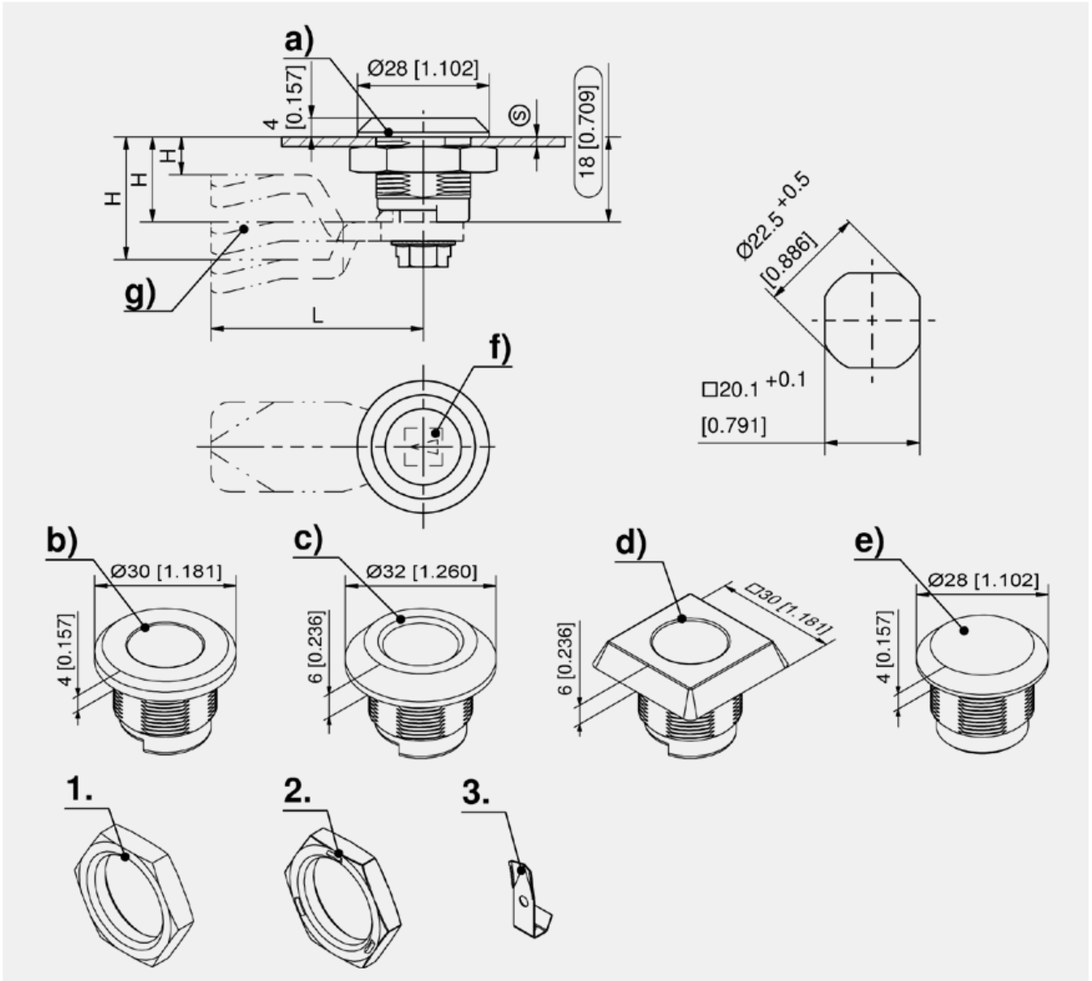
- Quarter-Turn, RH or LH application.
- The Quarter-Turn consists of three basic components a) to a4), b) and c) which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed through the cutout.
- Housings with extended bodies see product system 1-110.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.00-00000.
- IP67 according to DIN EN 60529 by sealing kit 209-9001.00-00000.

Materials

- **Housing:** zinc die, chrome plated or black or PA, black
- **Nuts:** steel, zinc plated
- **Grounding nut:** zinc die, untreated
- **Grounding clip:** stainless steel

Remarks

1. Nut
2. Grounding nut
3. Grounding clip



Quarter-Turn housing Ø28

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
a)	200-9001.00-00000	18 mm	max. 8 mm		zinc die	chrome plated	screw-on
a)	200-9002.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	chrome plated	screw-on
a)	200-9062.00-00000	18 mm	max. 8 mm	Grounding clip	zinc die	chrome plated	screw-on
a)	200-9048.00-00000	18 mm	max. 8 mm		zinc die	black	screw-on
a)	200-9049.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	black	screw-on
a)	200-9063.00-00000	18 mm	max. 8 mm	Grounding clip	zinc die	black	screw-on
a)	200-9004.00-00000	18 mm	max. 8 mm	Grounding clip	PA	black	screw-on

Quarter-Turn housing Ø30x4

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
b)	200-9045.00-00000	18 mm	max. 8 mm		zinc die	chrome plated	screw-on
b)	200-9046.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	chrome plated	screw-on
b)	200-9054.00-00000	18 mm	max. 8 mm		zinc die	black	screw-on
b)	200-9055.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	black	screw-on

Quarter-Turn housing Ø32x6

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
c)	200-9005.00-00000	18 mm	max. 8 mm		zinc die	chrome plated	screw-on
c)	200-9006.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	chrome plated	screw-on
c)	200-9050.00-00000	18 mm	max. 8 mm		zinc die	black	screw-on
c)	200-9051.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	black	screw-on
c)	200-9007.00-00000	18 mm	max. 8 mm		PA	black	screw-on
c)	200-9008.00-00000	18 mm	max. 8 mm	Grounding clip	PA	black	screw-on

Quarter-Turn housing 30x6

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
d)	200-9009.00-00000	18 mm	max. 8 mm		zinc die	chrome plated	screw-on
d)	200-9010.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	chrome plated	screw-on
d)	200-9052.00-00000	18 mm	max. 8 mm		zinc die	black	screw-on
d)	200-9053.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	black	screw-on

Blind housing Ø28x4

	Part Number	Housing length	Door-thickness	Material	Surface	Installation type
e)	235-9209.00-00000	18 mm	max. 8 mm	zinc die	black	screw-on

Accessories

f)	156	1-101 **Inserts Pr20.1**
	171	1-115 **Handle for Quarter-Turn**
	174	1-270 **Dust Caps and Sealing Plug Pr20.1**
	173	1-275 **Emergency Handle + Anti-Rotation Device Pr20.1**
	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
	758	6-100 **Key**
g)	160	1-102 **Cams L35/45 steel**
g1)	166	1-260 **Hooked Cam**
g1)	167	1-261 **Cams with Ramp**
g1)	167	1-262 **Cam variable**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**
200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
200-0033.00-00000 **Assembling cam 90° to handle with o-ring**

Function extension

209-9001.00-00000 **Sealing kit IP67 for 200-Quarter-Turns**
209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

DST Quarter-Turn Pr32x20 L18

[1-083DST]



Advantages

- Flush Quarter-Turn for clip-in installation into cutout 32x20.1mm.
- Tool-less installation.
- Vibration-proof installation.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- LH and RH application (bottom with 90°-stop can be rotated).
- Pre-assembly RH/LH upon request.
- IP65 according to DIN EN 60529 (o-ring for housing is included). O-ring 200-1001.00-00000, for insert, please order separately.
- Grounding by grounding clip.

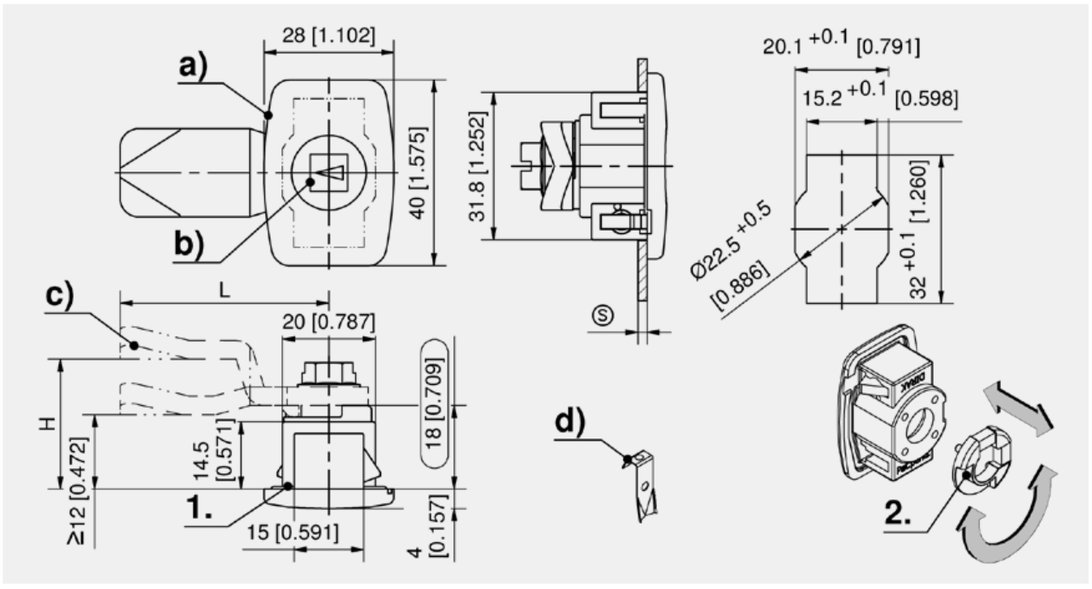
Materials

- **Housing:** PA, black or zinc die, chrome plated
- **Snap wedges:** sintered steel
- **O-Ring:** NBR, black

Remarks

Attention: H-dimension of the cam not less than ≥12mm (0.472)!

1. O-ring
2. rotatable bottom for RH/LH



Quarter-Turns

	Part Number	Clamping range	Material	Surface	Grounding type
a)	406-9005.00-00013	1.0 - 1.7 mm	PA	black	Grounding clip
a)	406-9005.00-00016	1.3 - 2.0 mm	PA	black	Grounding clip
a)	406-9005.00-00018	1.5 - 2.2 mm	PA	black	Grounding clip
a)	406-9005.00-00021	1.8 - 2.5 mm	PA	black	Grounding clip
a)	406-9005.00-00026	2.3 - 3.0 mm	PA	black	Grounding clip
a)	406-9005.00-00031	2.8 - 3.5 mm	PA	black	Grounding clip
a)	406-9006.00-00013	1.0 - 1.7 mm	zinc die	chrome plated	Grounding clip
a)	406-9006.00-00016	1.3 - 2.0 mm	zinc die	chrome plated	Grounding clip
a)	406-9006.00-00018	1.5 - 2.2 mm	zinc die	chrome plated	Grounding clip
a)	406-9006.00-00021	1.8 - 2.5 mm	zinc die	chrome plated	Grounding clip
a)	406-9006.00-00026	2.3 - 3.0 mm	zinc die	chrome plated	Grounding clip
a)	406-9006.00-00031	2.8 - 3.5 mm	zinc die	chrome plated	Grounding clip

Accessories

b)	156	1-101 **Inserts Pr20.1**
c)	160	1-102 **Cams L35/45 steel**
c)	167	1-262 **Cam variable**

Function extension

	200-1001.00-00000 **O-ring 12 x 2.0mm**
d)	200-1101.04-00000 **Grounding clip**

Quarter-Turn Pr20.1 L18 - L60

[7-080]



stainless steel AISI 303 or 316L

Advantages

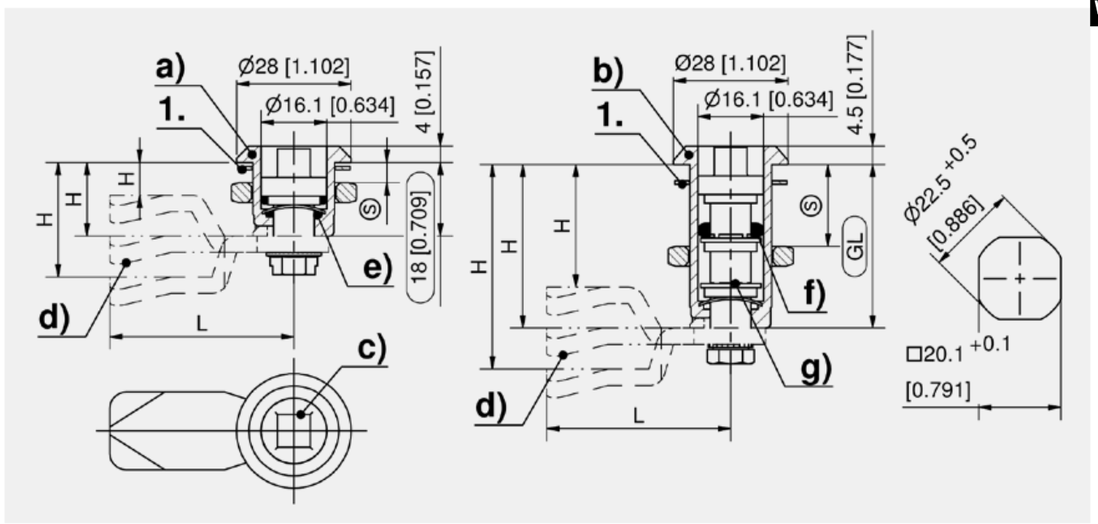
- Please configure the Quarter-Turn with insert and cam.
- Housing L18 is water- and dust-tight according to IP65 DIN EN 60529. It can reach IP67 DIN EN 60529 by additional o-ring (200-1002.00-00000).
- Housings L30 to L60 can reach IP65/67 DIN EN 60529 by additional o-ring (839-3771.00-00935).
- Adapter sets can consist of one more seperate extensions.
- A pre-assembled Quarter-Turn can be installed through the cutout.

Materials

- **Housing:** stainless steel AISI 303 or AISI 316L
- **Grounding nut:** stainless steel AISI 316L
- **Adapter:** stainless steel AISI 316
- **Flat external seal and o-ring:** NBR

Remarks

1. Flat external seal



Housing with flat seal and grounding nut

	Part Number	Housing length	Door-thickness	suitable Adapter set	Grounding type	Material	Version	Installation type
a)	200-9043.00-00000	18 mm	max. 8 mm		Grounding nut	Stainless Steel	AISI 316L	screw-on
b)	200-9072.00-00000	30 mm	max. 20 mm	L14	Grounding nut	Stainless Steel	AISI 303	screw-on
b)	100-9024.00-00000	36 mm	max. 26 mm	L21	Grounding nut	Stainless Steel	AISI 303	screw-on
b)	200-9073.00-00000	40 mm	max. 30 mm	L24	Grounding nut	Stainless Steel	AISI 303	screw-on
b)	200-9074.00-00000	50 mm	max. 40 mm	L33	Grounding nut	Stainless Steel	AISI 303	screw-on
b)	200-9075.00-00000	60 mm	max. 50 mm	L45	Grounding nut	Stainless Steel	AISI 303	screw-on

Accessories

c)	158	7-082 **Insert Stainless Steel Pr20.1**
	174	1-270 **Dust Caps and Sealing Plug Pr20.1**
	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
	758	6-100 **Key**
d)	162	7-105 **Cams L35/45 stainless steel**
e)		200-1002.00-00000 **O-ring 10 x 2.0mm**

Accessories

f)	839-3771.00-00935 **O-ring 9 x 3.5mm**
g)	100-9019.00-00000 **Adapter set L14**
g)	100-9020.00-00000 **Adapter set L21**
g)	100-9022.00-00000 **Adapter set L33**
g)	100-9021.00-00000 **Adapter set L24**
g)	100-9023.00-00000 **Adapter set L45**

Assembly options

	200-0002.00-00000 **Assembling cam with o-ring**

Quarter-Turn Pr20.1 L30-60

[1-110]



for cutout 20.1, lengths 30/40/50/60

Advantages

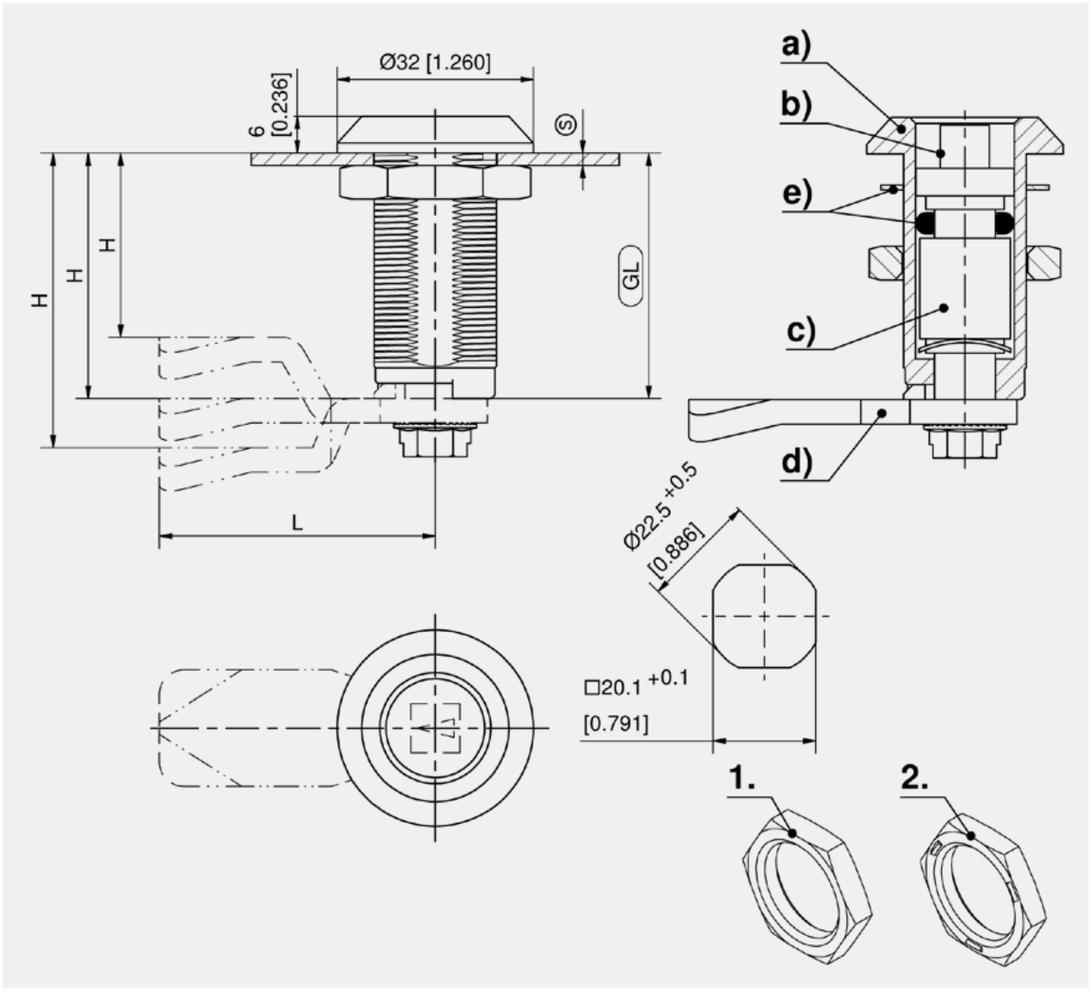
- Quarter-Turn with extended housings.
- RH / LH application.
- The Quarter-Turn consists of three basic components a, b and c, which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- By using inserts the adapter is optional, by using knobs the adapter is necessary.
- IP65 according to DIN EN 60529 by sealing kit.

Materials

- **Housing:** zinc die, chrome plated or black
- **Nuts:** steel, zinc plated
- **Grounding nut and adapter:** zinc die, untreated

Remarks

1. nut
2. grounding nut



Quarter-Turn, zinc die, chrome plated

	Part Number	Housing length	suitable Adapter set	Door-thickness	Grounding type	Installation type
a)	200-9011.00-00000	30 mm	L20	max. 20 mm		screw-on
a)	200-9012.00-00000	30 mm	L20	max. 20 mm	Grounding nut	screw-on
a)	200-9015.00-00000	36 mm	L26	max. 26 mm		screw-on
a)	200-9016.00-00000	36 mm	L26	max. 26 mm	Grounding nut	screw-on
a)	200-9019.00-00000	40 mm	L30	max. 30 mm		screw-on
a)	200-9020.00-00000	40 mm	L30	max. 30 mm	Grounding nut	screw-on
a)	200-9023.00-00000	50 mm	L40	max. 40 mm		screw-on
a)	200-9024.00-00000	50 mm	L40	max. 40 mm	Grounding nut	screw-on
a)	200-9027.00-00000	60 mm	L50	max. 50 mm		screw-on
a)	200-9028.00-00000	60 mm	L50	max. 50 mm	Grounding nut	screw-on

Quarter-Turn, zinc die, black

	Part Number	Housing length	suitable Adapter set	Door-thickness	Grounding type	Installation type
a)	200-9013.00-00000	30 mm	L20	max. 20 mm		screw-on
a)	200-9014.00-00000	30 mm	L20	max. 20 mm	Grounding nut	screw-on
a)	200-9017.00-00000	36 mm	L26	max. 26 mm		screw-on
a)	200-9018.00-00000	36 mm	L26	max. 26 mm	Grounding nut	screw-on
a)	200-9021.00-00000	40 mm	L30	max. 30 mm		screw-on
a)	200-9022.00-00000	40 mm	L30	max. 30 mm	Grounding nut	screw-on
a)	200-9025.00-00000	50 mm	L40	max. 40 mm		screw-on
a)	200-9026.00-00000	50 mm	L40	max. 40 mm	Grounding nut	screw-on
a)	200-9029.00-00000	60 mm	L50	max. 50 mm		screw-on
a)	200-9030.00-00000	60 mm	L50	max. 50 mm	Grounding nut	screw-on

Accessories

b)	156	1-101 **Inserts Pr20.1**
	171	1-115 **Handle for Quarter-Turn**
	174	1-270 **Dust Caps and Sealing Plug Pr20.1**
	173	1-275 **Emergency Handle + Anti-Rotation Device Pr20.1**
	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
	758	6-100 **Key**
d)	160	1-102 **Cams L35/45 steel**
d1)	166	1-260 **Hooked Cam**
d1)	167	1-262 **Cam variable**
d1)	168	1-264 **Slam-Cam**
c)		200-9031.00-00000 **Adapter set L20**
c)		200-9032.00-00000 **Adapter set L26**
c)		200-9033.00-00000 **Adapter set L30**
c)		200-9034.00-00000 **Adapter set L40**
c)		200-9035.00-00000 **Adapter set L50**

Assembly options

	200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
	200-0004.00-00000 **Assembling adapter, with o-ring**
	200-0033.00-00000 **Assembling cam 90° to handle with o-ring**
	200-0003.00-00000 **Assembling adapter without o-ring**

Function extension

e)	209-9006.00-00000 **Sealing kit IP65/IP67 for Quarter-Turns L30-60**

Quarter-Turn with Conical Square Insert Pr20.1 L18 [1-210]



Advantages

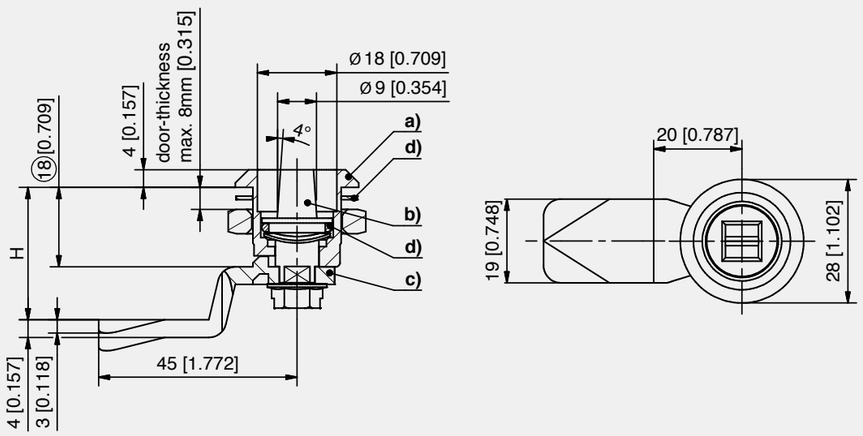
- Quarter-Turn with conical square insert, operated by a so-called "Bern" key.
- RH / LH application.
- This Quarter-Turn consists of three basic parts which can be combined to suit your application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- On request parts can be assembled by DIRAK.
- IP65 according to DIN EN 60529 by sealing kit.

Materials

a)
- **Housing:** zinc die, chrome plated or black
- **Nut:** steel, zinc plated

b)
- **Insert:** steel, zinc plated, or zinc die, chrome plated

c)
- **Cam:** steel, zinc plated



Quarter-Turn housing

	Part Number	Housing length	Material	Surface
a)	200-9065.00-00000	18 mm	zinc die	chrome plated
a)	200-9086.00-00000	18 mm	zinc die	black

Inserts

	Part Number	Insert	Material	Surface
b)	200-9138.00-00000	Conical square 9mm	zinc die	chrome plated
b)	200-9175.00-00000	Conical square 9mm	steel	zinc plated

Accessories

c) 160 1-102 **Cams L35/45 steel**
c) 167 1-262 **Cam variable**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**
200-0001.00-00000 **Assembling cam without o-ring**

Function extension

d) 209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Quarter-Turn SOFTLINE Pr20.1 L18 [1-107]



Advantages

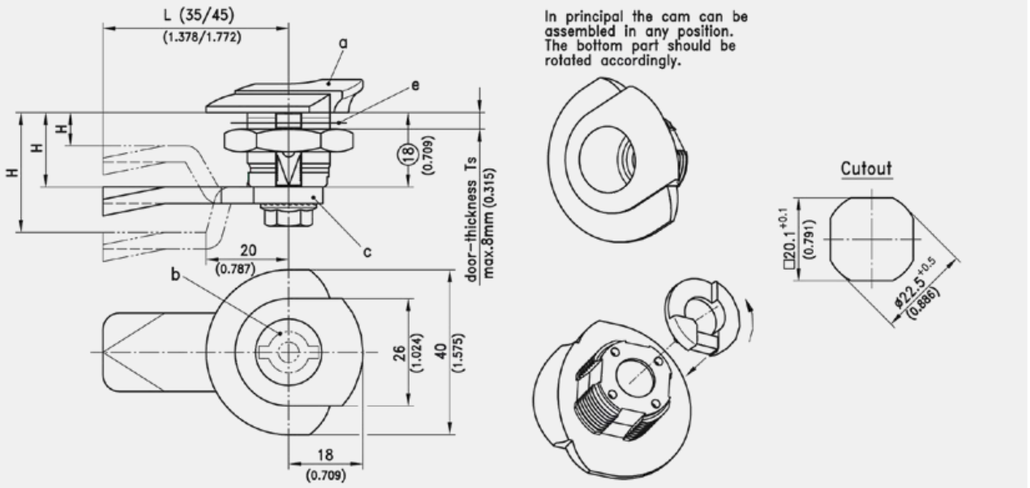
- Quarter-Turn SOFTLINE with integrated finger pull.
- RH / LH application by rotating the bottom part.
- The Quarter-Turn consists of three basic components a, b and c, which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.00-00000.
- IP67 according to DIN EN 60529 by sealing kit 209-9001.00-00000.

Materials

a)
- **Housing:** PA6, black
- **Bottom:** zinc die, zinc plated

Remarks

Note: Wing or star knob not usable.



Quarter-Turns

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
a)	100-9007.00-00000	18 mm	max. 8 mm		PA	black	screw-on
a)	100-9008.00-00000	18 mm	max. 8 mm	Grounding clip	PA	black	screw-on

Accessories

b) 156 1-101 **Inserts Pr20.1**
c) 160 1-102 **Cams L35/45 steel**
c) 167 1-261 **Cams with Ramp**
c) 167 1-262 **Cam variable**
c) 168 1-264 **Slam-Cam**

Assembly options

200-0069.00-00000 **Assembling with o-ring, LH version**
200-0068.00-00000 **Assembling without o-ring, LH version**
200-0067.00-00000 **Assembling with o-ring, RH version**
200-0066.00-00000 **Assembling without o-ring, RH version**

Function extension

209-9001.00-00000 **Sealing kit IP67 for 200-Quarter-Turns**
209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Quarter-Turn 2K Polyamide Pr20.1 L18

[1-092]



Advantages

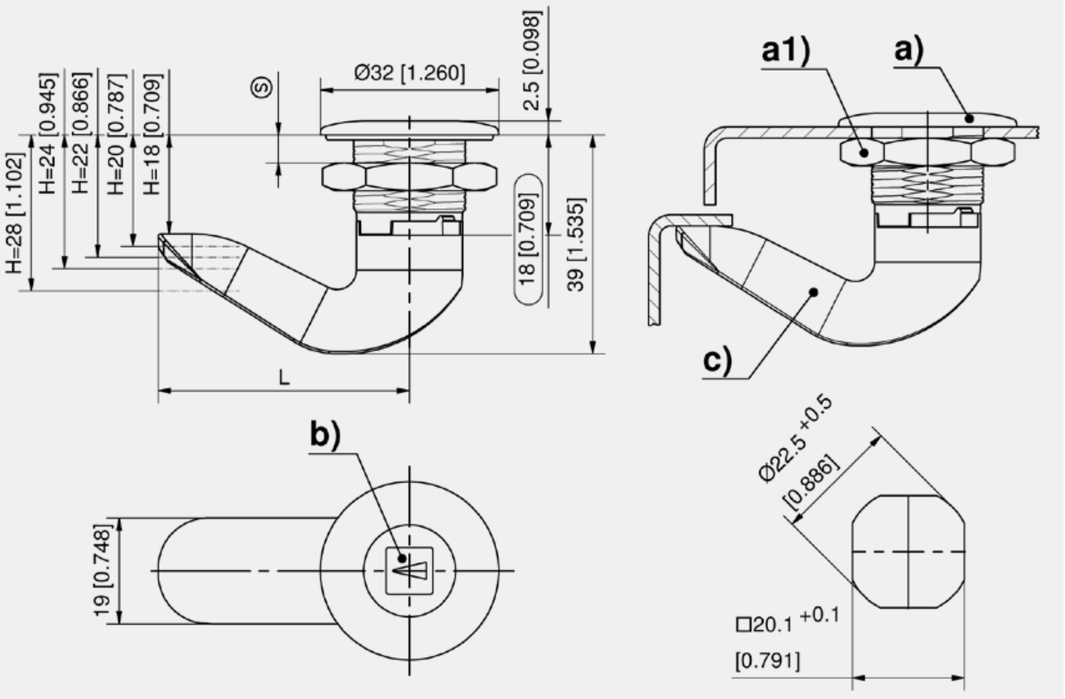
- Double insulated polyamide Quarter-Turn.
- With moulded-in TPE seal (under the head and inside the housing).
- The TPE seal is permanently fixed in the PA-housing, thus ensuring that it cannot be lost.
- IP65/67 according to DIN EN 60529.
- IP69K according to DIN 40050.
- Please configure the Quarter-Turn with nut, insert and cam.
- Insert and cam can be clipped together without tools before the installation in the housing.
- A pre-assembled Quarter-turn can be installed through the cutout.
- RH / LH application.

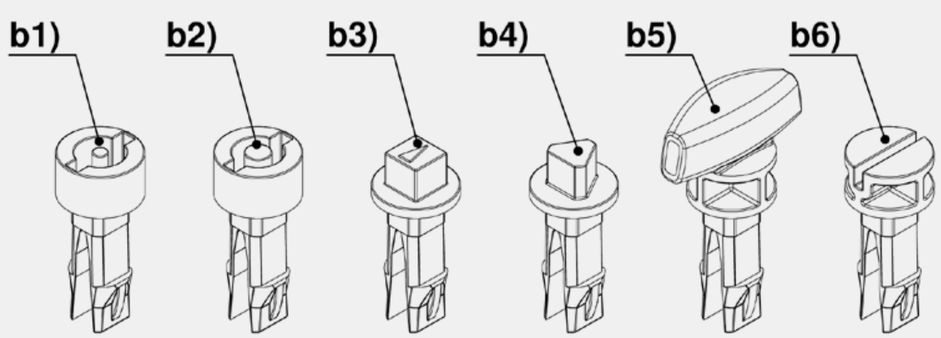
Materials

- **Housing, nut, insert and cam:** PA6, black
- **Seal:** TPE, red

Remarks

(S) = max. 8 mm.





Quarter-Turn housing 2K

	Part Number	Housing length	Material	Surface	Captive seal
a)	200-0211.07-07701	18 mm	PA	black	Yes

Insert 2K

	Part Number	Insert	Material	Surface
b1)	100-0388.50-07705	Double bit 3mm pin	PA	black
b2)	100-0388.50-07701	Double bit 5mm pin	PA	black
b3)	100-0388.50-07702	Square 8mm	PA	black
b4)	100-0388.50-07703	Triangular 8mm	PA	black
b5)	100-0388.50-07707	Wing knob	PA	black
b6)	100-0388.50-07704	Slotted 2x4mm	PA	black

Cams 2K, L45

	Part Number	H-dimension	Stop	Material	Surface
c)	200-0769.50-07718	18 mm	Yes	PA	black
c)	200-0769.50-07720	20 mm	Yes	PA	black
c)	200-0769.50-07722	22 mm	Yes	PA	black
c)	200-0769.50-07724	24 mm	Yes	PA	black
c)	200-0769.50-07728	28 mm	Yes	PA	black

Specific accessories

a1) 203-0901.03-00000 **Nut**

Accessories

174 1-270 **Dust Caps and Sealing Plug Pr20.1**
173 1-275 **Emergency Handle + Anti-Rotation Device Pr20.1**
175 1-270.01 **Finger Pull for Quarter-Turn Pr20.1**

Quarter-Turn Pr20.1 L18

[1-100.01]



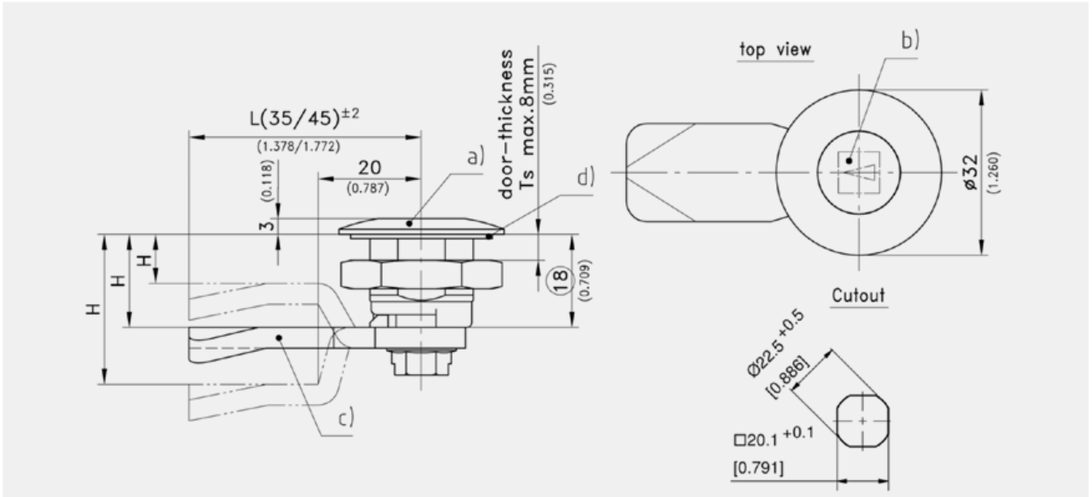
Specially low profile Quarter-Turn

Advantages

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- A pre-assembled Quarter-turn can be installed through the cutout.
- Grounding by grounding nut or grounding clip.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.
- IP67 according to DIN EN 60529 by sealing kit 209-9001.

Materials

- **Housing:** zinc die, chrome plated or black
- **Nut:** steel, zinc plated
- **Grounding nut:** zinc die, untreated
- **Grounding clip:** stainless steel



Quarter-Turn housing Ø32

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface	Installation type
a)	100-9053.00-00000	18 mm	max. 8 mm		zinc die	chrome plated	screw-on
a)	100-9054.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	chrome plated	screw-on
a)	100-9055.00-00000	18 mm	max. 8 mm	Grounding clip	zinc die	chrome plated	screw-on
a)	100-9056.00-00000	18 mm	max. 8 mm		zinc die	black	screw-on
a)	100-9057.00-00000	18 mm	max. 8 mm	Grounding nut	zinc die	black	screw-on
a)	100-9058.00-00000	18 mm	max. 8 mm	Grounding clip	zinc die	black	screw-on

Accessories

b)	156	1-101 **Inserts Pr20.1**
	171	1-115 **Handle for Quarter-Turn**
	174	1-270 **Dust Caps and Sealing Plug Pr20.1**
	173	1-275 **Emergency Handle + Anti-Rotation Device Pr20.1**
	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
	758	6-100 **Key**
c)	160	1-102 **Cams L35/45 steel**
c1)	166	1-260 **Hooked Cam**
c1)	167	1-261 **Cams with Ramp**
c1)	167	1-262 **Cam variable**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**
200-0001.00-00000 **Assembling cam without o-ring**

Function extension

d) 209-9001.00-00000 **Sealing kit IP67 for 200-Quarter-Turns**
d) 209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Quarter-Turn Pr20.1 L18

[7-080.01]



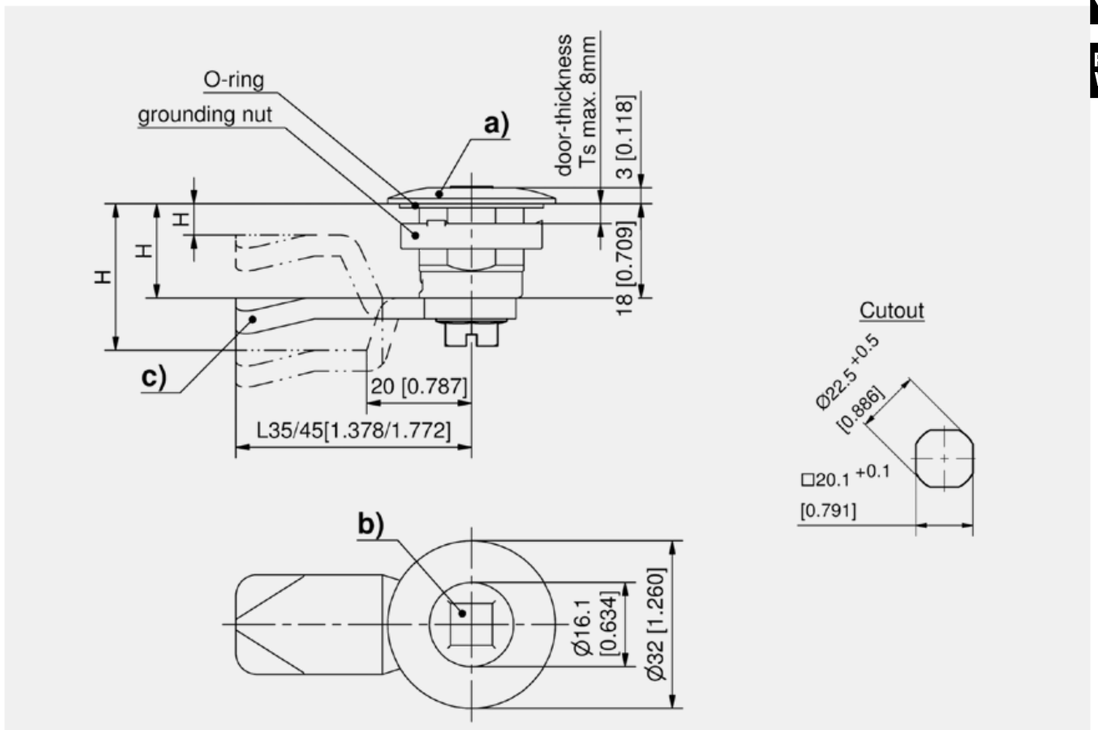
stainless steel AISI 316, low profile Quarter-Turn

Advantages

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- The Quarter-Turn, stainless steel, can be screwed into the cutout with the preassembled cam.
- IP65 according to DIN EN 60529.
- IP67 according to DIN 60529 and IP69K according to DIN 40050 by: additional o-ring 200-1002.
- (S) = max. 8 mm.

Materials

- **Housing:** stainless steel AISI 316
- **Insert:** stainless steel AISI 316
- **Cams and serrated screw:** stainless steel AISI 304
- **O-Rings:** NBR
- **Grounding nut:** stainless steel AISI 316L



Quarter-Turns

	Part Number	Housing length	Door-thickness	Grounding type	Material	Installation type
a)	100-9601.00-00000	18 mm	max. 8 mm	Grounding nut	Stainless Steel	screw-on

Accessories

b)	158	7-082 **Insert Stainless Steel Pr20.1**
	758	6-100 **Key**
c)	162	7-105 **Cams L35/45 stainless steel**
		200-1002.00-00000 **O-ring 10 x 2.0mm**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**

Quarter-Turn with Square Threaded Rod [1-100.02]



Elegant and particularly flat Quarter-Turn

Advantages

- RH / LH application.
- Square threaded rod 40mm.
- Adjustability of the cam by the catch for standard cams 2-151.02 and 3-point cam with knurled wheel 2-151.01.
- Grounding by grounding nut or clip.
- IP65 according to DIN EN 60529. (included in the scope of delivery)

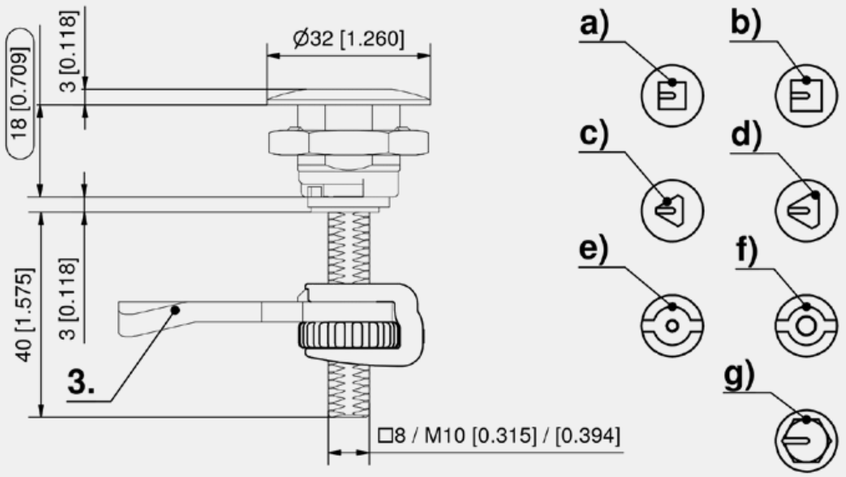
Materials

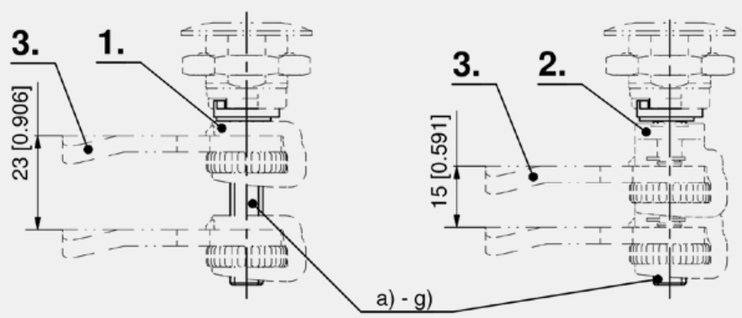
- **Housing:** zinc die, chrome plated
- **Insert:** zinc die, chrome plated
- **Nut:** steel, zinc plated
- **Grounding nut:** zinc die, zinc plated
- **Grounding clip:** stainless steel

Remarks

Pre-assembled **without** cam

1. = 2-151.02
2. = 2-151.01
3. = Cam





Quarter-Turn with insert

	Part Number	Insert	Grounding type	Housing length	Material	Surface
a)	100-9801.00-11940	Square 7mm		18 mm	zinc die	chrome plated
b)	100-9801.00-12040	Square 8mm		18 mm	zinc die	chrome plated
c)	100-9801.00-12140	Triangular 7mm		18 mm	zinc die	chrome plated
d)	100-9801.00-12240	Triangular 8mm		18 mm	zinc die	chrome plated
e)	100-9801.00-12340	Double bit 3mm pin		18 mm	zinc die	chrome plated
f)	100-9801.00-12440	Double bit 5mm pin		18 mm	zinc die	chrome plated
g)	100-9801.00-12540	Hex.SW 11		18 mm	zinc die	chrome plated
a)	100-9802.00-11940	Square 7mm	Grounding nut	18 mm	zinc die	chrome plated
b)	100-9802.00-12040	Square 8mm	Grounding nut	18 mm	zinc die	chrome plated
c)	100-9802.00-12140	Triangular 7mm	Grounding nut	18 mm	zinc die	chrome plated
d)	100-9802.00-12240	Triangular 8mm	Grounding nut	18 mm	zinc die	chrome plated
e)	100-9802.00-12340	Double bit 3mm pin	Grounding nut	18 mm	zinc die	chrome plated
f)	100-9802.00-12440	Double bit 5mm pin	Grounding nut	18 mm	zinc die	chrome plated
g)	100-9802.00-12540	Hex.SW 11	Grounding nut	18 mm	zinc die	chrome plated
a)	100-9803.00-11940	Square 7mm	Grounding clip	18 mm	zinc die	chrome plated
b)	100-9803.00-12040	Square 8mm	Grounding clip	18 mm	zinc die	chrome plated
c)	100-9803.00-12140	Triangular 7mm	Grounding clip	18 mm	zinc die	chrome plated
d)	100-9803.00-12240	Triangular 8mm	Grounding clip	18 mm	zinc die	chrome plated
e)	100-9803.00-12340	Double bit 3mm pin	Grounding clip	18 mm	zinc die	chrome plated
f)	100-9803.00-12440	Double bit 5mm pin	Grounding clip	18 mm	zinc die	chrome plated
g)	100-9803.00-12540	Hex.SW 11	Grounding clip	18 mm	zinc die	chrome plated

	Accessories
191	1-191 **Height-adjustable Rod Guide with Knurled Nut**
186	1-170 **Round Rod with Eye**
187	1-180 **Round Rods for Adapter**
758	6-100 **Key**
160	1-102 **Cams L35/45 steel**
183	2-151.01 **3-Point Cam Adapter adjustable**
178	2-151.02 **Catch for standard Cams**

Quarter-Turn Pr20.1 L18-50

[7-083]



stainless steel AISI 316L, elegant, low profile Quarter-Turn with housing lengths 18, 30, 36 and 50mm and marked red/green (padlock) on the housing top

Advantages

- Please configure the Quarter-Turn with insert and cam.
- Housing L18 is water- and dust-tight according to IP65 DIN EN 60529. It can reach IP67 DIN EN 60529 by additional O-ring (200-1002.00-00000).
- Housings L30 to L50 can reach IP65/67 DIN EN 60529 by additional O-ring (839-3771.00-00935).
- Adapter sets can consist of one or more separate extensions.
- A pre-assembled Quarter-Turn can be installed through the cutout.

Materials

- **Housing, insert, grounding nut:** stainless steel AISI 316L
- **Flat external seal:** NBR

Remarks

1. = Flat external seal

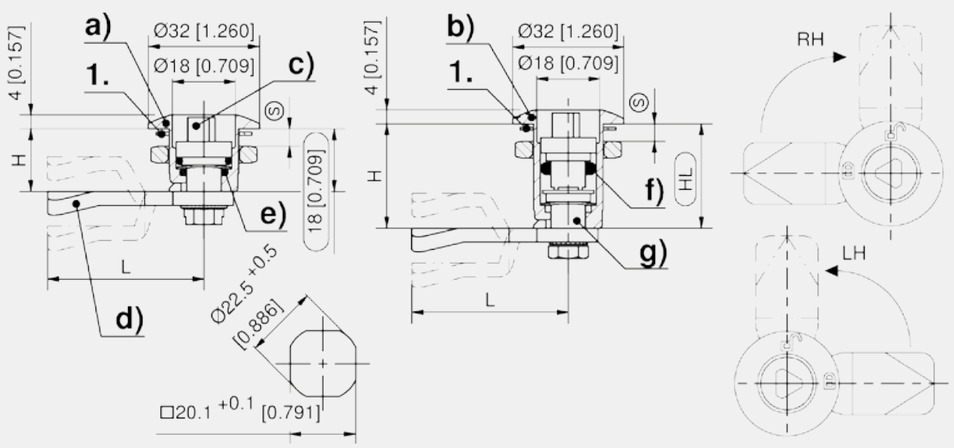
c) = Insert

d) = Cam

e) = O-ring 10 x 2.0 mm

f) = O-ring 9 x 3.5 mm

g) = Adapter set



Housing with latched / unlatched indicator, flat seal and grounding nut

	Part Number	Housing length	Door-thickness	Version	suitable Adapter set	Grounding type	Material
a)	100-9092.RH-00000	18 mm	max. 8 mm	RH		Grounding nut	Stainless Steel
a)	100-9092.LH-00000	18 mm	max. 8 mm	LH		Grounding nut	Stainless Steel
b)	100-9093.RH-00000	30 mm	max. 20 mm	RH	L14	Grounding nut	Stainless Steel
b)	100-9093.LH-00000	30 mm	max. 20 mm	LH	L14	Grounding nut	Stainless Steel
b)	100-9094.RH-00000	36 mm	max. 26 mm	RH	L21	Grounding nut	Stainless Steel
b)	100-9094.LH-00000	36 mm	max. 26 mm	LH	L21	Grounding nut	Stainless Steel
b)	100-9095.RH-00000	50 mm	max. 40 mm	RH	L33	Grounding nut	Stainless Steel
b)	100-9095.LH-00000	50 mm	max. 40 mm	LH	L33	Grounding nut	Stainless Steel

Accessories

c)	158	7-082 **Insert Stainless Steel Pr20.1**
d)	162	7-105 **Cams L35/45 stainless steel**
e)		200-1002.00-00000 **O-ring 10 x 2.0mm**
f)		839-3771.00-00935 **O-ring 9 x 3.5mm**
g)		100-9019.00-00000 **Adapter set L14**
g)		100-9020.00-00000 **Adapter set L21**
g)		100-9022.00-00000 **Adapter set L33**

Assembly options

h)	200-0002.00-00000 **Assembling cam with o-ring**
h)	200-0004.00-00000 **Assembling adapter, with o-ring**

Cylinder Quarter-Turn Polyamide Pr20.1 L18

[1-121]



Advantages

- Polyamide Cylinder Quarter-Turn double insulated and vibration-proof.
- RH / LH application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All locks supplied with two keys.
- IP65 according to DIN EN 60529 by dust cap 200-4101.
- IP65/67 according to DIN EN 60529 by dust cap 200-4103.

Materials

a)

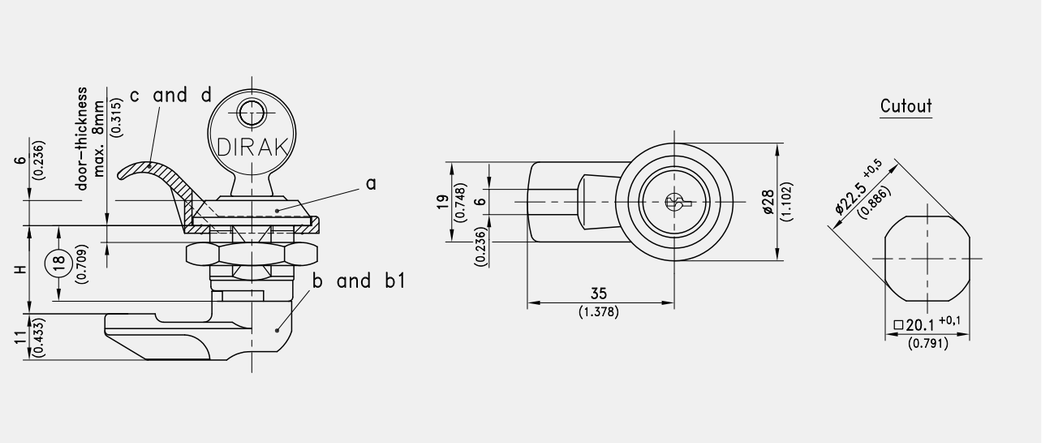
- **Housing:** PA, black

b)

- **Cam:** PA, black

d)

- **Finger pull:** PA, black



Quarter-Turn with cylinder

	Part Number	Latching type	Housing length	Door-thickness	Version	Material	Surface
a)	200-9210.00-00000	keyed alike DIRAK 1333	18 mm	max. 8 mm	Nut, PA	PA	black
a)	200-9211.00-00000	keyed alike DIRAK 1333	18 mm	max. 8 mm	Nut, steel, zinc plated	PA	black
a)	200-9212.00-00000	keyed alike DIRAK 1333	18 mm	max. 8 mm	Nut, stainless steel	PA	black
a)	200-9213.00-00000	keyed different	18 mm	max. 8 mm	Nut, PA	PA	black
a)	200-9214.00-00000	keyed different	18 mm	max. 8 mm	Nut, steel, zinc plated	PA	black
a)	200-9215.00-00000	keyed different	18 mm	max. 8 mm	Nut, stainless steel	PA	black

Accessories

	78	1-095 **Quarter-Turn Polyamide Pr20.1 L18**
c)	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
b1)	160	1-102 **Cams L35/45 steel**
b1)	166	1-260 **Hooked Cam**
d)	174	200-4101.00-00000 **Dust cap**
d)	174	200-4103.00-00000 **Dust cap**

Assembly options

	200-0001.00-00000 **Assembling cam without o-ring**

Cylinder Quarter-Turn Pr20.1 L18

[1-120]



Advantages

- Cylinder Quarter-Turn.
- RH / LH application.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All locks supplied with two keys.
- IP65 according to DIN EN 60529 by Dust cap 200-4101.
- IP65/IP67 according to DIN EN 60529 by Dust cap 200-4103.

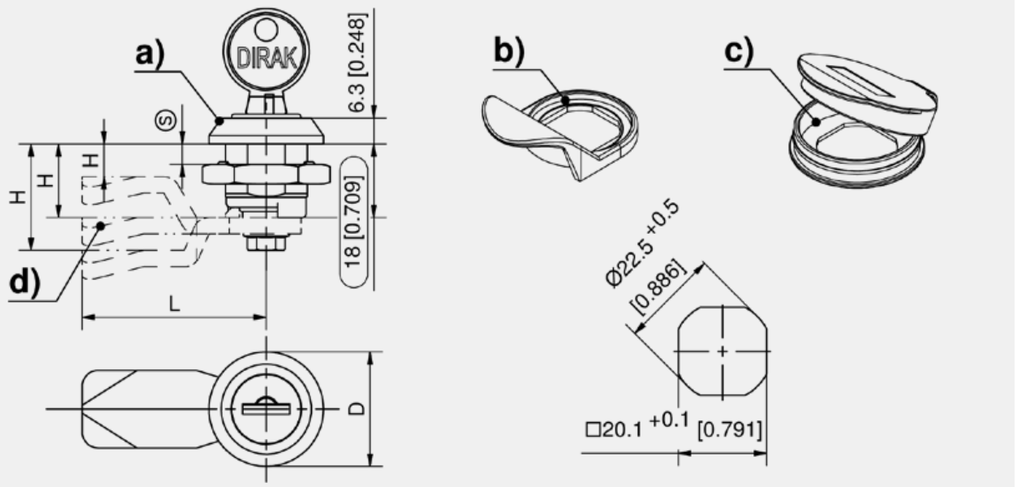
Materials

a)

- **Housing:** zinc die, chrome plated or black

Remarks

(S) = max. 8mm



Quarter-Turn with cylinder, zinc die

	Part Number	Head diameter	Latching type	Surface	Grounding type
a)	200-9201.00-00000	Ø28	keyed alike DIRAK 1333	chrome plated	Grounding nut
a)	500-9201.00-00000	Ø28	keyed alike DS200	chrome plated	Grounding nut
a)	200-9203.00-00000	Ø28	keyed different	chrome plated	Grounding nut
a)	200-9202.00-00000	Ø28	keyed alike DIRAK 1333	black	Grounding nut
a)	500-9202.00-00000	Ø28	keyed alike DS200	black	Grounding nut
a)	200-9204.00-00000	Ø28	keyed different	black	Grounding nut
a)	200-9205.00-00000	Ø32	keyed alike DIRAK 1333	chrome plated	Grounding nut
a)	500-9205.00-00000	Ø32	keyed alike DS200	chrome plated	Grounding nut
a)	200-9207.00-00000	Ø32	keyed different	chrome plated	Grounding nut
a)	200-9206.00-00000	Ø32	keyed alike DIRAK 1333	black	Grounding nut
a)	500-9206.00-00000	Ø32	keyed alike DS200	black	Grounding nut
a)	200-9208.00-00000	Ø32	keyed different	black	Grounding nut

Accessories

b)	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
d)	160	1-102 **Cams L35/45 steel**
d)	167	1-262 **Cam variable**
c)	174	200-4101.00-00000 **Dust cap**
c)	174	200-4103.00-00000 **Dust cap**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**

Cylinder Quarter-Turn Pr20.1 L18

[7-084]



Cylinder Quarter-Turn stainless steel version with grounding nut

Advantages

- **Version a)**
- RH / LH application.
- For stability the cam is secured by a nut DIN 934.
- **Version a1) and a2)**
- RH and LH version.
- To insure turns freely, the slam-cam is secured by a shoulder screw.

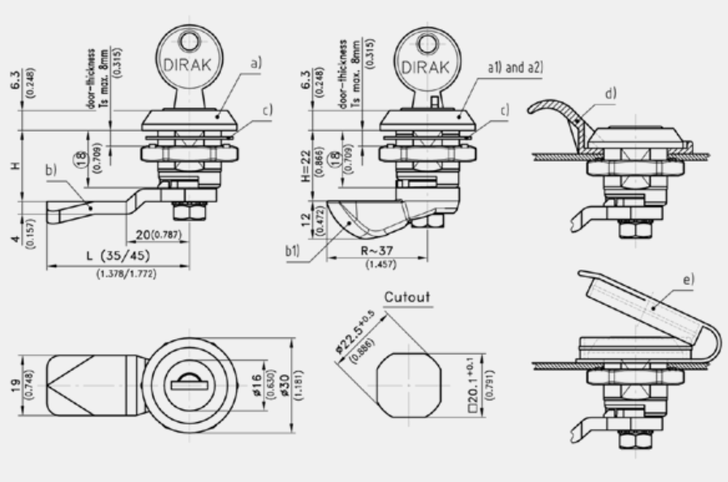
Materials

- **Housing, grounding nut, adapter, cylinder barrel, hexagon nut and wave washer:** stainless steel AISI 316

Remarks

Please note: Water- and dust-tight according to IP65 DIN EN 60529 only **with** dustcap, see product system 1-270.

(S) = max. 8mm.



Cylinder Quarter-Turn

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Material
a)	200-9232.00-00000	18 mm	keyed alike DIRAK 1333	max. 8 mm	Grounding nut	Stainless Steel
a)	200-9233.00-00000	18 mm	keyed different	max. 8 mm	Grounding nut	Stainless Steel

Cylinder Quarter-Turn, with slam cam and adapter

	Part Number	Housing length	Latching type	Version	Door-thickness	Grounding type	Material
a1)	200-9236.00-01333	18 mm	keyed alike DIRAK 1333	RH	max. 8 mm	Grounding nut	Stainless Steel
a1)	200-9236.00-99999	18 mm	keyed different	RH	max. 8 mm	Grounding nut	Stainless Steel
a2)	200-9237.00-01333	18 mm	keyed alike DIRAK 1333	LH	max. 8 mm	Grounding nut	Stainless Steel
a2)	200-9237.00-99999	18 mm	keyed different	LH	max. 8 mm	Grounding nut	Stainless Steel

Accessories

e)	174	1-270 **Dust Caps and Sealing Plug Pr20.1**
d)	175	1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
b)	162	7-105 **Cams L35/45 stainless steel**
b1)	169	7-076 **Slam-Cam for Quarter-Turn Pr20.1**
c)		200-0901.00-00000 **Flat external seal 20.1, Ø22.5mm**

DST Cylinder Quarter-Turn Pr32x20 L22

[1-120DST]



Advantages

- Flush Quarter-Turn for Snap-in installation into cutout 32x20.1mm.
- Tool-less installation.
- Vibration-proof installation.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- RH/LH application.
- The rotatable bottom can be positioned in any 90° position, making the bit of the key always pointing in the same direction for both RH and LH doors.
- Pre-assembly RH/LH upon request.
- Grounding by grounding clip.

Materials

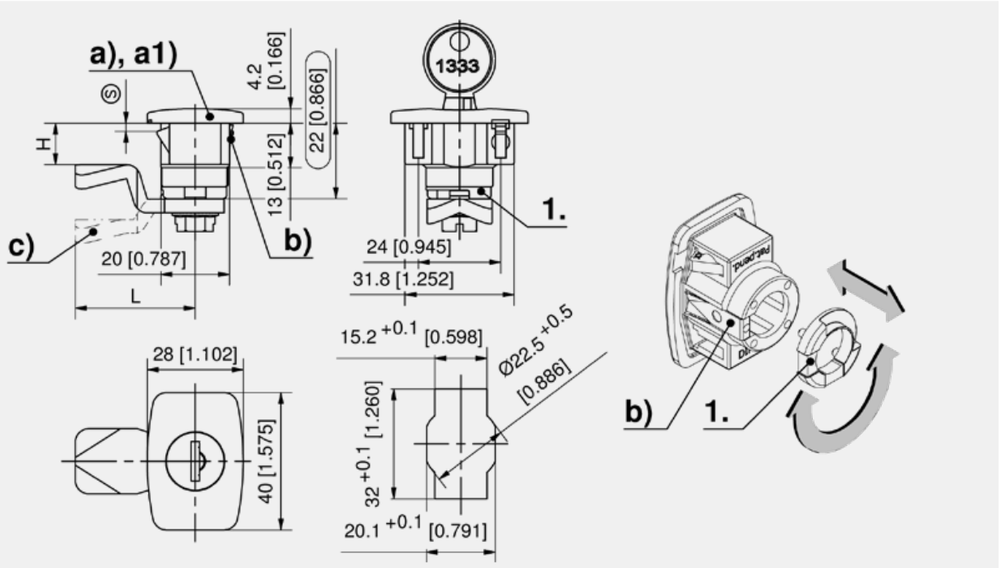
- **Housing and cylinder:** zinc die, chrome plated
- **Snap wedges:** sintered steel
- **Loose bottom:** zinc die, zinc plated
- **Serrated screw and cam:** steel, zinc plated
- **O-Ring:** NBR, black, serves as security for the snap wedges

Remarks

H-dimension of the cam L=35 ≥ 12mm (0.472)

H-dimension of the cam L=45 ≥ 6mm (0.236)

1. = rotatable bottom for RH/LH



Quarter-Turn with cylinder, zinc die

	Part Number	Clamping range	Surface	Latching type	Installation type
a)	406-9007.00-00013	1.0 - 1.7 mm	chrome plated	keyed alike DIRAK 1333	tool-less
a)	406-9007.00-00018	1.5 - 2.2 mm	chrome plated	keyed alike DIRAK 1333	tool-less
a)	406-9007.00-00026	2.3 - 3.0 mm	chrome plated	keyed alike DIRAK 1333	tool-less
a1)	406-9008.00-00013	1.0 - 1.7 mm	chrome plated	keyed different	tool-less
a1)	406-9008.00-00018	1.5 - 2.2 mm	chrome plated	keyed different	tool-less
a1)	406-9008.00-00026	2.3 - 3.0 mm	chrome plated	keyed different	tool-less
a)	406-9009.00-00013	1.0 - 1.7 mm	black	keyed alike DIRAK 1333	tool-less
a)	406-9009.00-00018	1.5 - 2.2 mm	black	keyed alike DIRAK 1333	tool-less
a)	406-9009.00-00026	2.3 - 3.0 mm	black	keyed alike DIRAK 1333	tool-less
a1)	406-9010.00-00013	1.0 - 1.7 mm	black	keyed different	tool-less
a1)	406-9010.00-00018	1.5 - 2.2 mm	black	keyed different	tool-less
a1)	406-9010.00-00026	2.3 - 3.0 mm	black	keyed different	tool-less

Accessories

c) 160 1-102 **Cams L35/45 steel**
c) 167 1-262 **Cam variable**
b) 200-1103.04-00000 **Grounding clip**

Cylinder Quarter-Turn Pr20.1 L30-50

[1-120.01]



Low profile Cylinder Quarter-Turn with different housing lengths

Advantages

- RH / LH application.
- Please configure the Quarter-Turn with insert and cam.
- On request parts can be assembled with cam.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- 2 Keys included.
- With stainless cylinder cover and dust-shutter.
- Maximum load for the key 4 Nm.

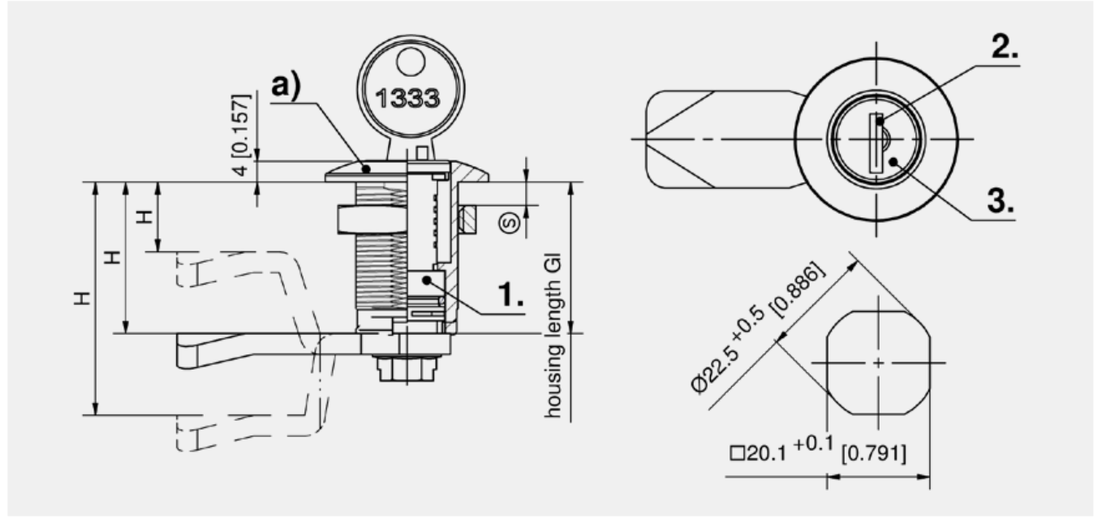
Materials

- **Housing:** zinc die, chrome plated or black
- **Nut and Serrated screw:** steel, zinc plated
- **Adapter:** zinc die, untreated

Remarks

IP65 according to DIN EN 60529 only **with** dust cap.

1. = Adapter
2. = Dust-shutter
3. = Cylinder cover



Quarter-Turn with cylinder, zinc die

	Part Number	Housing length	Latching type	Door-thickness	Surface
a)	100-9081.00-10030	30 mm	keyed alike DIRAK 1333	max. 20 mm	chrome plated
a)	100-9081.00-10050	50 mm	keyed alike DIRAK 1333	max. 40 mm	chrome plated
a)	100-9081.00-20030	30 mm	keyed alike DIRAK 1333	max. 20 mm	black
a)	100-9081.00-20050	50 mm	keyed alike DIRAK 1333	max. 40 mm	black
a)	100-9082.00-10030	30 mm	keyed different	max. 20 mm	chrome plated
a)	100-9082.00-10050	50 mm	keyed different	max. 40 mm	chrome plated
a)	100-9082.00-20030	30 mm	keyed different	max. 20 mm	black
a)	100-9082.00-20050	50 mm	keyed different	max. 40 mm	black
a)	100-9083.00-10030	30 mm	keyed alike DS200	max. 20 mm	chrome plated
a)	100-9083.00-10050	50 mm	keyed alike DS200	max. 40 mm	chrome plated
a)	100-9083.00-20030	30 mm	keyed alike DS200	max. 20 mm	black
a)	100-9083.00-20050	50 mm	keyed alike DS200	max. 40 mm	black

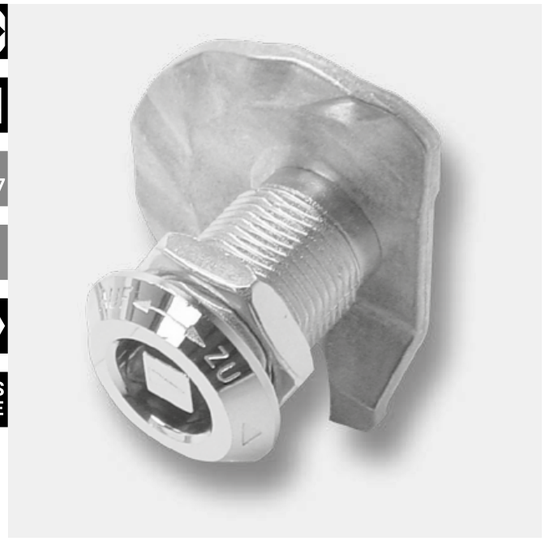
Accessories

174 1-270 **Dust Caps and Sealing Plug Pr20.1**
175 1-270.01 **Finger Pull for Quarter-Turn Pr20.1**
160 1-102 **Cams L35/45 steel**
167 1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**

Quarter-Turn with Stepped Cam Pr20.1 L18-60 [1-200]



Advantages

- Quarter-Turn with stepped cam. Covers large tolerances and gives greater compression possibilities.
- RH / LH application.
- The locking direction is always clockwise.
- When installed, the arrow must point to the frame. In this case the flat side of the cam is parallel to the frame.
- Marking of housing -" Auf/Zu" (Open/Closed)
- This Quarter-Turn consists of three basic parts which can be combined to suit your application.
- When using knobs the adapter is necessary.
- IP65 according to DIN EN 60529 by using sealing kit.

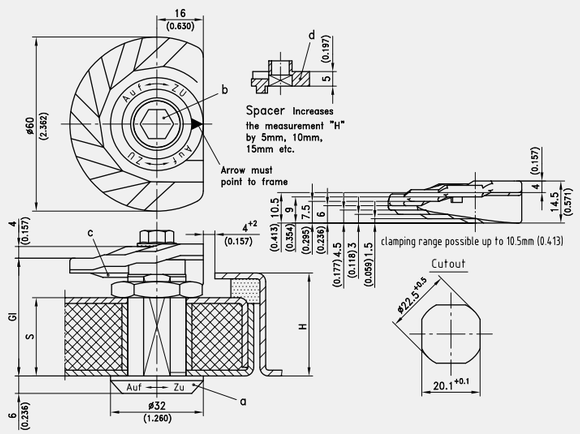
Materials

- **Housing:** zinc die, chrome plated
- **Nut:** steel, zinc plated
- **Adapter, stepped cam and spacer:** zinc die, untreated

Remarks

Sealing kit for GL18: 209-9002

Sealing kit from GL30: 209-9006



Quarter-Turns

	Part Number	Housing length	Door-thickness	variable H-dimension	suitable Adapter set	Material	Surface	Installation type
a)	200-9038.00-00000	18 mm	max. 8 mm	8 - 18 mm		zinc die	chrome plated	screw-on
a)	200-9039.00-00000	30 mm	max. 20 mm	20 - 30 mm	L20	zinc die	chrome plated	screw-on
a)	200-9040.00-00000	36 mm	max. 26 mm	26 - 36 mm	L26	zinc die	chrome plated	screw-on
a)	200-9041.00-00000	40 mm	max. 30 mm	30 - 40 mm	L30	zinc die	chrome plated	screw-on
a)	200-9042.00-00000	50 mm	max. 40 mm	40 - 50 mm	L40	zinc die	chrome plated	screw-on
a)	200-9047.00-00000	60 mm	max. 50 mm	50 - 60 mm	L50	zinc die	chrome plated	screw-on

Stepped Cam

	Part Number	Stop	Material	Surface
c)	200-2903.00-00000	No	zinc die	untreated
c)	200-2904.00-00000	Yes	zinc die	untreated

Accessories

b)	156	1-101 **Inserts Pr20.1**
a1)		200-9031.00-00000 **Adapter set L20**
a1)		200-9032.00-00000 **Adapter set L26**
a1)		200-9033.00-00000 **Adapter set L30**
a1)		200-9034.00-00000 **Adapter set L40**
a1)		200-9035.00-00000 **Adapter set L50**
d)		200-2803.30-00005 **Middel part**

Function extension

209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**
209-9006.00-00000 **Sealing kit IP65/IP67 for Quarter-Turns L30-60**

Quarter-Turn with Combination Lock Pr20.1 L18 [1-125]



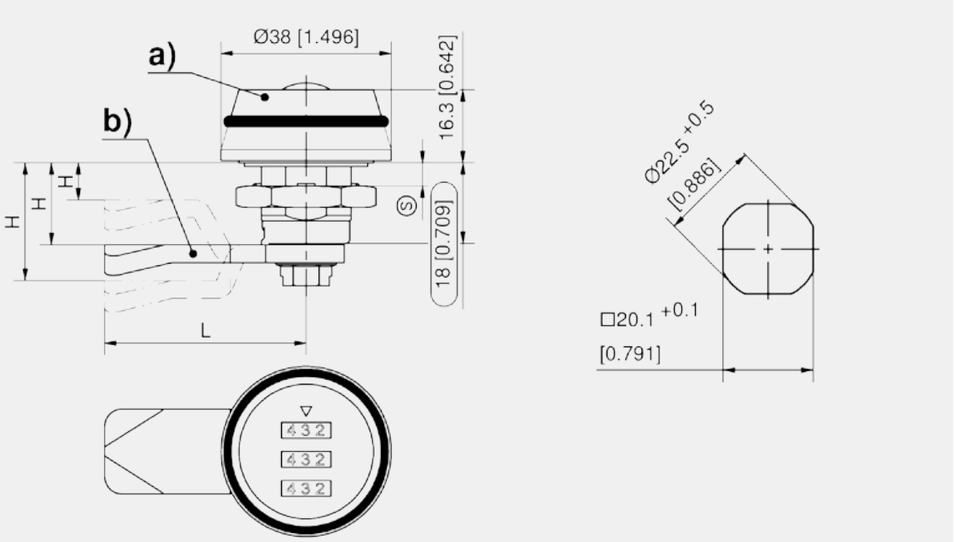
for cutout 20.1, length 18

Advantages

- Quarter-Turn with combination Lock.
- RH or LH application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- O-ring on handle improves grip.
- IP65 according to DIN EN 60529.
- For combination set or reset please refer to enclosed instructions.
- Modifying the combination just in open state possible.

Materials

- **Handle and housing:** zinc die, chrome plated or black
- **Cam:** steel, zinc plated
- **O-Ring:** Perbunan



Quarter-Turn, zinc die, chrome plated

	Part Number	Housing length	Installation type	Door-thickness
a)	100-9301.00-00000	18 mm	screw-on	max. 8 mm

Quarter-Turn, zinc die, black

	Part Number	Housing length	Installation type	Door-thickness
a)	100-9302.00-00000	18 mm	screw-on	max. 8 mm

Accessories

b)	160	1-102 **Cams L35/45 steel**

Flush Quarter-Turn L22-66

DIN 61373

R L

15 Nm

RoHS WEEE



The Quarter-Turn has absolutely no protrusion on the outside

Advantages

- RH / LH application.
- Vibration-proof according to DIN EN 61373.
- Please configure the Quarter-Turn with insert, adapter and cam.
- With the PA nut M22 x 1.5mm, the housing is put exactly into position and secured with the anti-rotation device. Precise detent for optimized alignment.
- In conjunction with the stop plate, stop less constructions with aluminum profiles and/or with flat components can be latched perfectly.

Materials

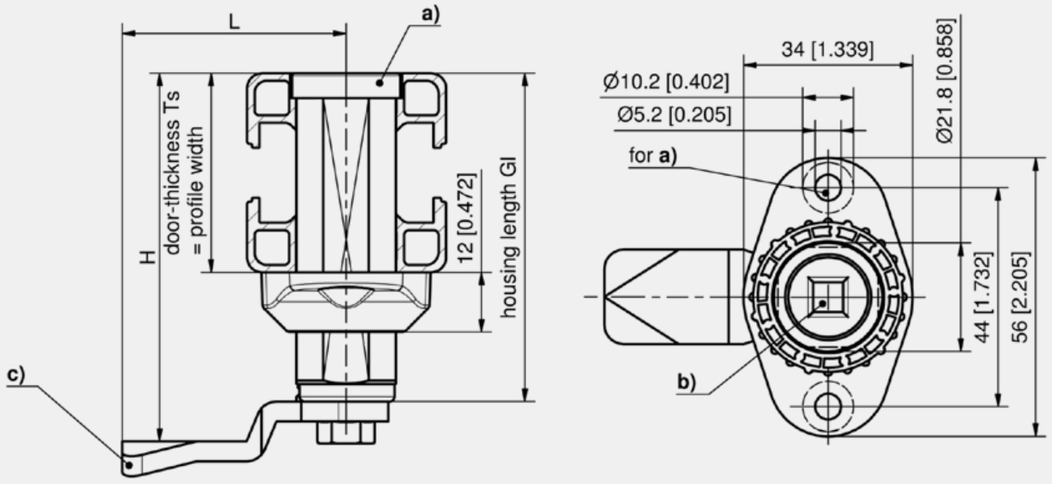
- **Housing:** zinc die, chrome plated or black
- **Nut:** PA
- **Adapter:** zinc die, untreated
- **Anti-rotation device:** zinc die, zinc plated
- **Cams:** steel, zinc plated

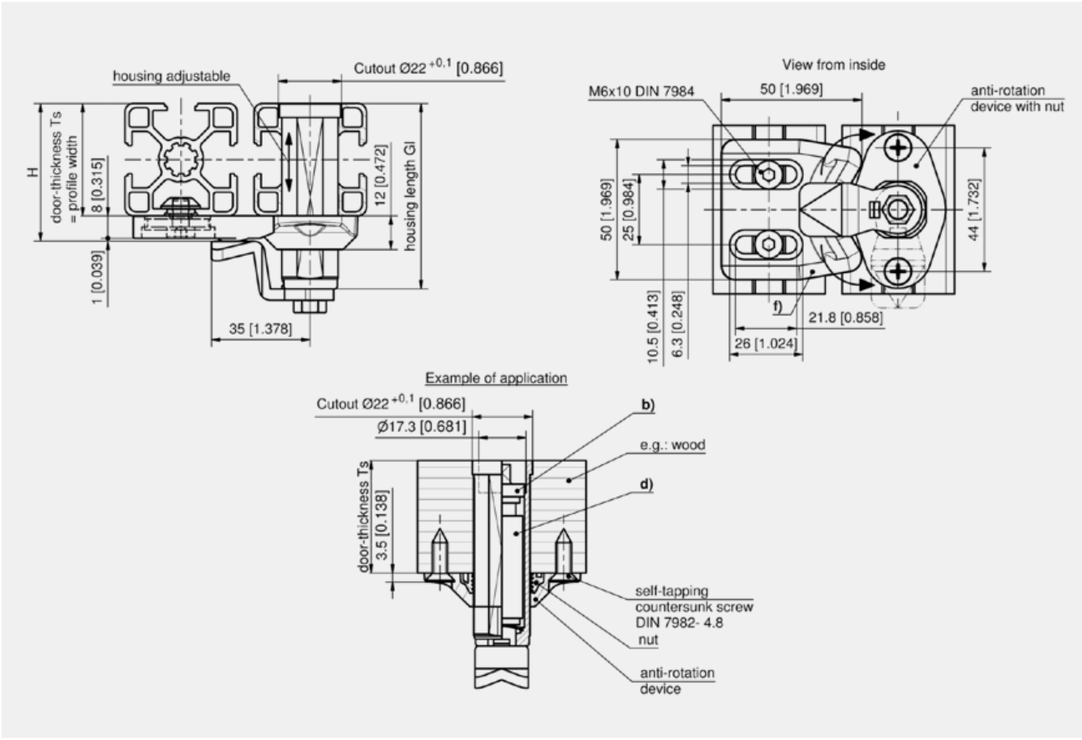
Remarks

d) = Adapter set

f) = Stop plate

Minimum door-thickness 5mm





Quarter-Turn housing, zinc die, chrome plated

	Part Number	Housing length	suitable Adapter set	Door-thickness	Installation type
a)	200-9088.00-00000	22 mm		max. 7 mm	screw-on
a)	200-9090.00-00000	36 mm	L20	max. 21 mm	screw-on
a)	200-9092.00-00000	42 mm	L26	max. 27 mm	screw-on
a)	200-9094.00-00000	46 mm	L30	max. 31 mm	screw-on
a)	200-9096.00-00000	56 mm	L40	max. 41 mm	screw-on
a)	200-9098.00-00000	66 mm	L50	max. 51 mm	screw-on

Quarter-Turn housing, zinc die, black

	Part Number	Housing length	Installation type	Door-thickness
a)	200-9089.00-00000	22 mm	screw-on	max. 7 mm

	Accessories
b)	156 1-101 **Inserts Pr20.1**
c)	160 1-102 **Cams L35/45 steel**
d)	200-9031.00-00000 **Adapter set L20**
d)	200-9032.00-00000 **Adapter set L26**
d)	200-9033.00-00000 **Adapter set L30**
d)	200-9034.00-00000 **Adapter set L40**
d)	200-9035.00-00000 **Adapter set L50**
f)	265-3001.33-00000 **Stop plate**

	Assembly options
	200-0003.00-00000 **Assembling adapter without o-ring**

Flush Latch with Integrated Hinge Function [1-162]

DIN 61373

R L

120°

RoHS WEEE



for surface mounted door, door bending 25mm

Advantages

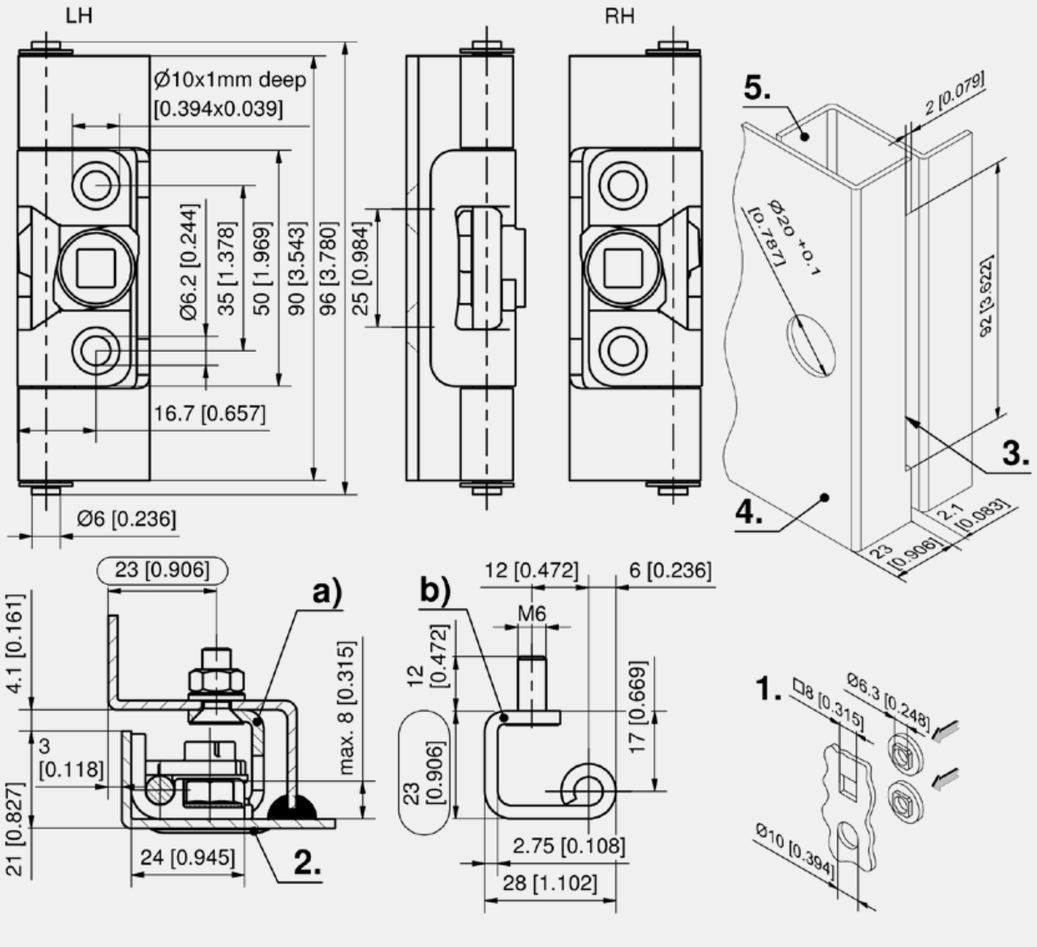
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH and LH Version.
- 120° Opening angle.
- Vibration-proof according to DIN EN 61373.
- Flush latch through insert.
- When using 4 latches, the door can be lifted off completely.

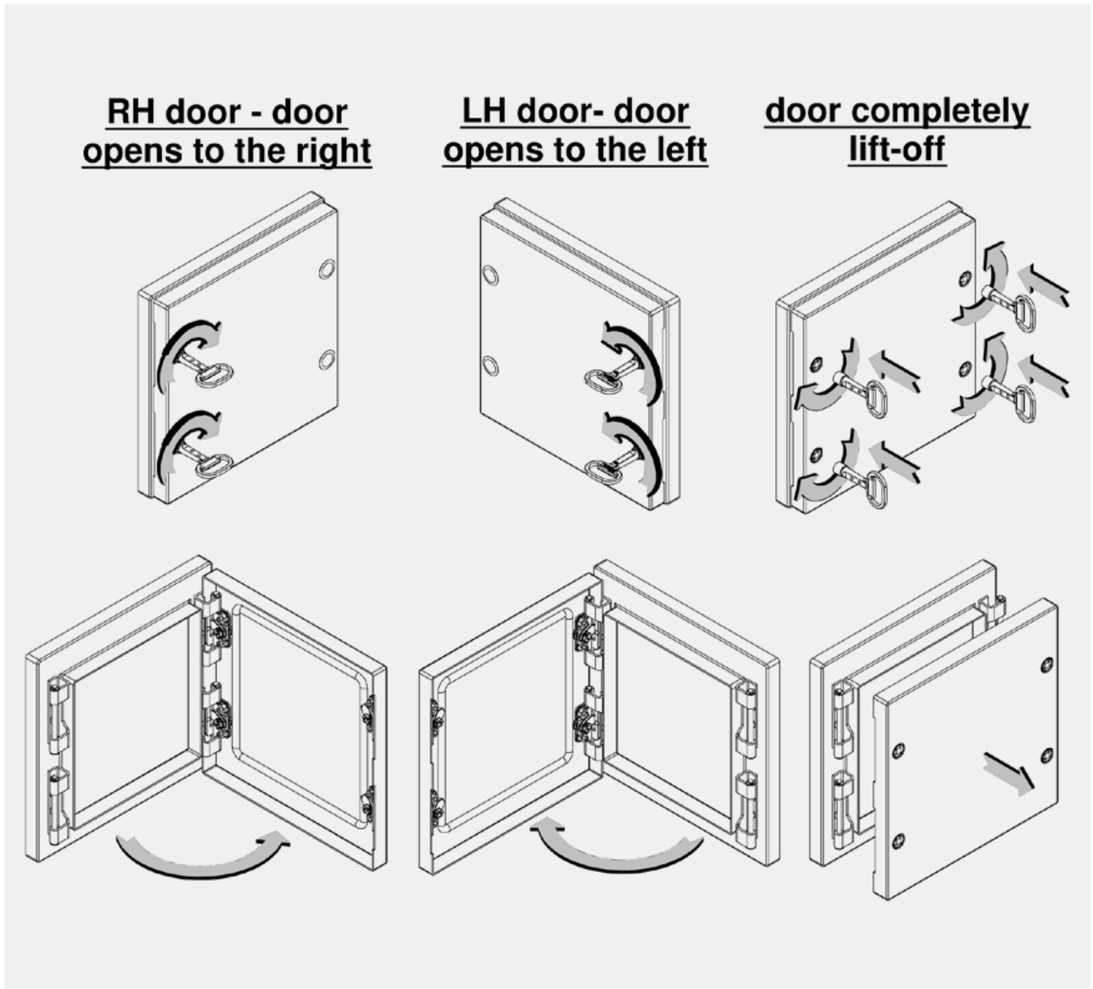
Materials

- **Door- and latch-part:** zinc die, zinc plated
- **Spring washer:** stainless steel
- **Nut:** steel, zinc plated
- **Locking washer:** steel, chrome plated
- **Blind plug:** PA6, RAL 7035

Remarks

1. = Installation instruction for fastening washer
2. = Blind plug
3. = Door notch 92 x 2mm
4. = Door
5. = Frame





Flush latch, version LH

	Part Number	Insert	Installation type frame-part	Installation type door-part
a)	243-9218.00-00000	Square 8mm	Countersunk screw	screw-on
b)	243-9219.00-00000	Square 8mm	pressed in stud M6	screw-on
a)	243-9220.00-00000	Double bit 3mm pin	Countersunk screw	screw-on
b)	243-9221.00-00000	Double bit 3mm pin	pressed in stud M6	screw-on
a)	243-9226.00-00000	Square 8mm with arrow	Countersunk screw	screw-on
b)	243-9228.00-00000	Square 8mm with arrow	pressed in stud M6	screw-on

Flush latch, version RH

	Part Number	Insert	Installation type frame-part	Installation type door-part
a)	243-9222.00-00000	Square 8mm	Countersunk screw	screw-on
b)	243-9223.00-00000	Square 8mm	pressed in stud M6	screw-on
a)	243-9224.00-00000	Double bit 3mm pin	Countersunk screw	screw-on
b)	243-9225.00-00000	Double bit 3mm pin	pressed in stud M6	screw-on
a)	243-9227.00-00000	Square 8mm with arrow	Countersunk screw	screw-on
b)	243-9229.00-00000	Square 8mm with arrow	pressed in stud M6	screw-on

Specific accessories
292-0604.00-07035 **Blind plug**
800-1105.00-00000 **Weld stud M6x8**
860-B193.00-00006 **Serrated nut M6**
243-0501.00-00000 **Fastening Washer**

Quarter-Turn L20

[1-160]

RoHS WEEE



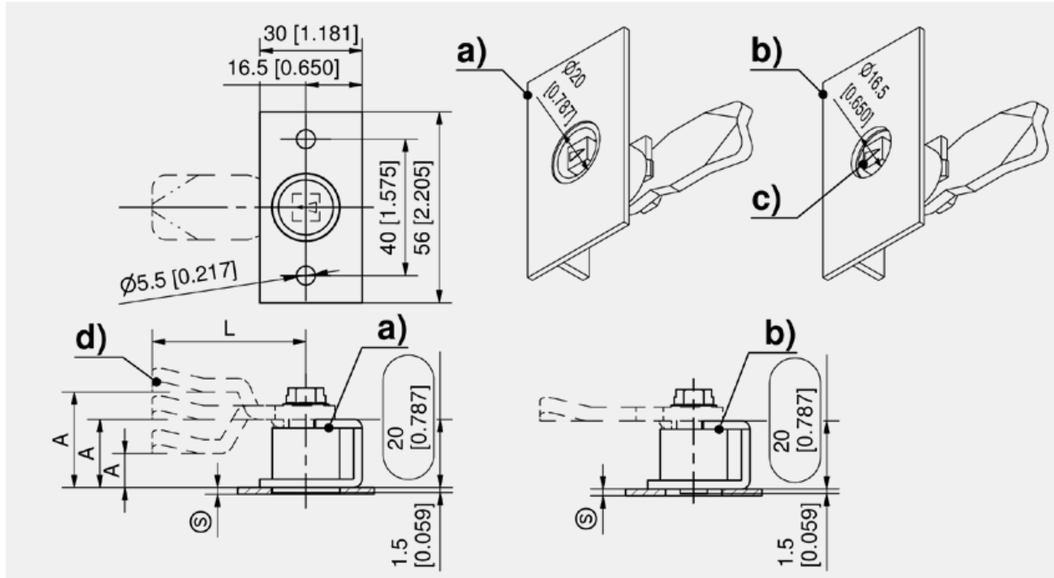
screw-on, weld-on or rivet-on, flush version

Advantages

- Quarter-Turn screw-on, weld-on or rivet-on.
- This Quarter-Turn consists of three basic parts which can be combined to suit your application.

Materials

- **Housing:** steel, zinc plated
- **Bezel:** zinc die, untreated
- **Insert:** zinc die, chrome plated
- **Cam:** steel, zinc plated



Housing with bezel

	Part Number	Housing length	Version	Material	Surface	Installation type
a)	200-9036.00-00000	20 mm	RH	steel	zinc plated	screw-/ weld-on/ rivet
a)	200-9037.00-00000	20 mm	LH	steel	zinc plated	screw-/ weld-on/ rivet

Housing with bezel flush

	Part Number	Housing length	Version	Material	Surface	Installation type
b)	100-9010.00-00000	20 mm	RH	steel	zinc plated	screw-/ weld-on/ rivet
b)	100-9011.00-00000	20 mm	LH	steel	zinc plated	screw-/ weld-on/ rivet

Accessories

c) 156 1-101 **Inserts Pr20.1**
d) 160 1-102 **Cams L35/45 steel**
d) 167 1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**

Quarter-Turn with Drip Handle Pr20.1 L18

[1-135]



for cutout 20.1, length 18, with cylinder

Advantages

- Drip handle Quarter-Turn.
- RH / LH application.
- Versions **without** cylinder are water- and dust-tight according to IP65 DIN EN 60529.
- Versions **with** cylinder are water- and dust-tight according to IP54 DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.

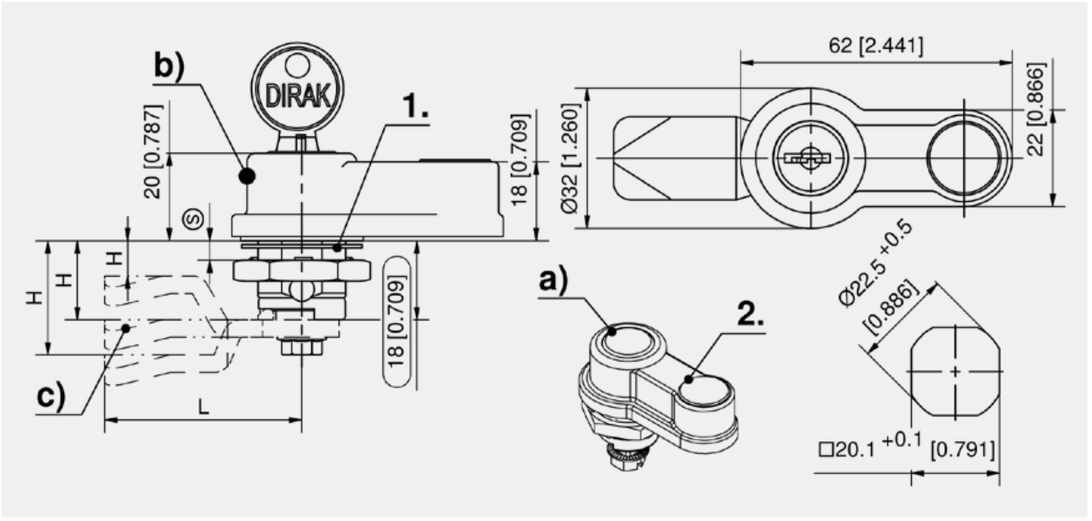
Materials

- A, black with zinc die core
- **Housing:** zinc die, chrome plated
- **Cylinder:** PA, black or zinc die, chrome plated
- **Plug:** PA, black

Remarks

1. Seal
2. Plug

20 | R L | IP 54 | IP 65 | 15 Nm | RoHS WEEE



Quarter-Turn with drip handle

	Part Number	Version	Latching type	Grounding type	IP protection	Housing length	Door-thickness
a)	200-9394.00-00000	with blind plug		Grounding nut	IP65	18 mm	max. 8 mm
b)	200-9392.00-00000	Cylinder PA, black	keyed alike DIRAK 1333	Grounding nut	IP54	18 mm	max. 8 mm
b)	200-9393.00-00000	Cylinder PA, black	keyed different	Grounding nut	IP54	18 mm	max. 8 mm
b)	200-9395.00-00000	Cylinder zinc die, chrome plated	keyed alike DIRAK 1333	Grounding nut	IP54	18 mm	max. 8 mm
b)	200-9396.00-00000	Cylinder zinc die, chrome plated	keyed different	Grounding nut	IP54	18 mm	max. 8 mm
b)	500-9395.00-00000	Cylinder zinc die, chrome plated	keyed alike DS200	Grounding nut	IP54	18 mm	max. 8 mm

Accessories

c) 160 1-102 **Cams L35/45 steel**
c) 167 1-262 **Cam variable**

Assembly options

200-0020.00-00000 **Assembling cam, LH door**
200-0021.00-00000 **Assembling cam, RH door**

Quarter-Turn with Wing Knob Pr20.1 L18

[1-130]



for cutout 20.1, length 18, with cylinder

Advantages

- Quarter-Turn with wing knob.
- RH or LH application.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.

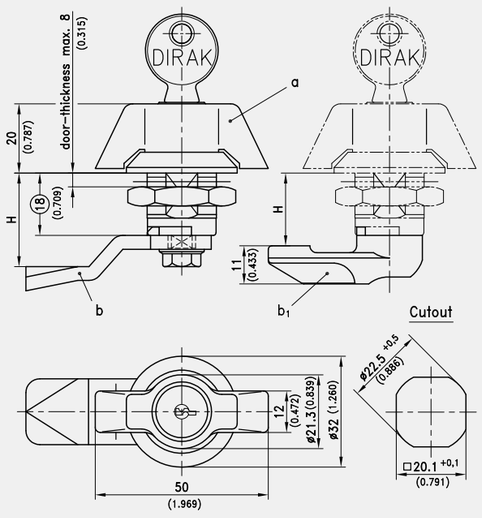
Materials

Variante a)

- **Housing:** zinc die, black
- **Cylinder:** zinc die with stainless steel dust-shutter
- **Wing knob:** PA, black with zinc die core
- **Plug:** PA, black
- **Grounding nut:** zinc die

Variante a1)

- **Housing, cylinder, wing knob and plug:** PA, black
- **Nut:** zinc die or PA



Quarter-Turn L18 with wing knob

	Part Number	Latching type	IP protection	Version	Door-thickness	Material	Surface
a)	200-9301.00-00000		IP65	Grounding nut	max. 8 mm	PA / zinc die core	black
a1)	200-9368.00-00000		IP65	Nut, steel, zinc plated	max. 8 mm	PA	black
a1)	200-9371.00-00000		IP65	Nut, PA	max. 8 mm	PA	black
a)	200-9302.00-00000	keyed alike DIRAK 1333		Grounding nut	max. 8 mm	PA / zinc die core	black
a1)	200-9369.00-00000	keyed alike DIRAK 1333		Nut, steel, zinc plated	max. 8 mm	PA	black
a1)	200-9372.00-00000	keyed alike DIRAK 1333		Nut, PA	max. 8 mm	PA	black
a)	500-9302.00-00000	keyed alike DS200		Grounding nut	max. 8 mm	PA / zinc die core	black
a)	200-9303.00-00000	keyed different		Grounding nut	max. 8 mm	PA / zinc die core	black
a1)	200-9370.00-00000	keyed different		Nut, steel, zinc plated	max. 8 mm	PA	black
a1)	200-9373.00-00000	keyed different		Nut, PA	max. 8 mm	PA	black

Accessories

a1) 78 1-095 **Quarter-Turn Polyamide Pr20.1 L18**
b) 160 1-102 **Cams L35/45 steel**
b) 167 1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**

Quarter-Turn with T-Handle Pr20.1 L18

[1-142]



for cutout 20.1, length 18, with cylinder

Advantages

- Quarter-Turn with T-handle.
- RH or LH application.
- Versions **without cylinder** are water- and dust-tight according to IP65 DIN EN 60529.
- Versions **with cylinder** are water- and dust-tight according to IP54 DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All lockable handles supplied with two keys.

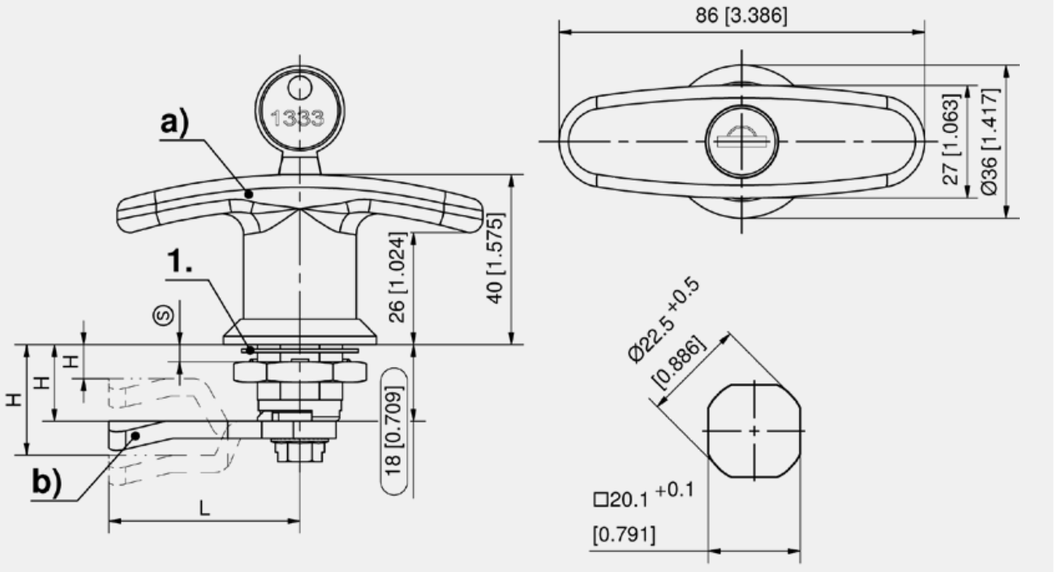
Materials

- **T-handle:** zinc die, nickel plated
- **Cam:** steel, zinc plated

Other surfaces i.e. chrome plated, black on request!

Remarks

1. = Seal



Quarter-Turns

	Part Number	Housing length	Insert	Grounding type	IP protection	Door-thickness	Material	Surface
a)	100-9306.00-00000	18 mm	without	Grounding nut	IP65	max. 8 mm	zinc die	nickel plated
a)	100-9309.00-00001	18 mm	Square 8mm	Grounding nut	IP65	max. 8 mm	zinc die	nickel plated

Quarter-Turn with cylinder

	Part Number	Housing length	Latching type	Grounding type	IP protection	Door-thickness	Material	Surface
a)	100-9308.00-00000	18 mm	keyed alike DIRAK 1333	Grounding nut	IP54	max. 8 mm	zinc die	nickel plated
a)	100-9307.00-00000	18 mm	keyed different	Grounding nut	IP54	max. 8 mm	zinc die	nickel plated

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 167 1-262 **Cam variable**
b) 290 2-150 **3-Point Cam**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**

Quarter-Turn with T-Handle Pr20.1 L18

[1-140]



Advantages

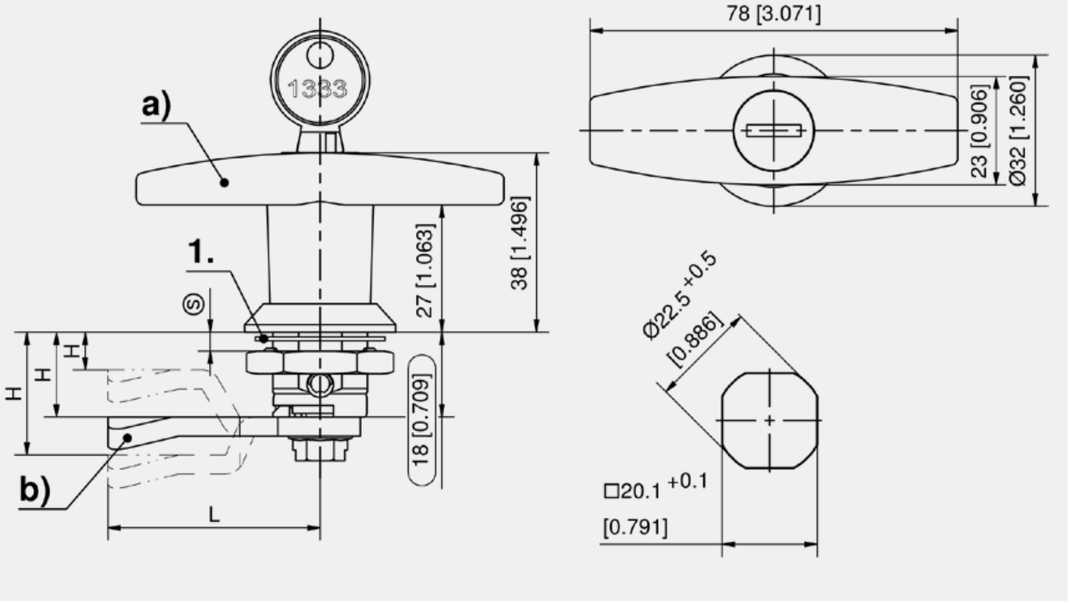
- Quarter-Turn with T-handle.
- With or without cylinder.
- RH or LH application.
- Versions **without cylinder** are water- and dust-tight according to **IP65** DIN EN 60529.
- Versions **with cylinder** are water- and dust-tight according to **IP54** DIN EN 60529.
- The Quarter-Turn consists of two basic components a) and b) which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All lockable T-handles supplied with two keys.

Materials

- **T-handle:** PA, black with zinc die core or zinc die, chrome plated or black
- **Cam:** steel, zinc plated

Remarks

1. = Seal



Quarter-Turn, with T-handle, PA, black

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9307.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
a)	200-9308.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
a)	200-9309.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
a)	500-9308.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm

Quarter-Turn with T-handle, zinc die, chrome plated

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9319.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
a)	200-9320.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
a)	200-9321.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
a)	500-9320.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm
a)	501-9320.00-00000	18 mm	PAGODA keyed alike	IP65	Grounding nut	max. 8 mm
a)	501-9321.00-00000	18 mm	PAGODA keyed different	IP54	Grounding nut	max. 8 mm

Quarter-Turn with T-handle, zinc die, black

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9331.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
a)	200-9332.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
a)	200-9333.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
a)	500-9332.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm
a)	501-9332.00-00000	18 mm	PAGODA keyed alike	IP54	Grounding nut	max. 8 mm
a)	501-9333.00-00000	18 mm	PAGODA keyed different	IP54	Grounding nut	max. 8 mm

Accessories	
b) 160	1-102 **Cams L35/45 steel**
b) 167	1-262 **Cam variable**

Assembly options
200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**

Quarter-Turn with T- Handle and Wing Knob Pr20.1 L30-60

[1-155.02]



Advantages

- T-handle and wing knob with extended housing and plain/ grounding nut.
- Maximum door-thickness 50mm.
- All versions of Wing-Handles are supplied complete with housing.
- Versions **without cylinder** are water- and dust-tight according to IP65 DIN EN 60529.
- Versions **with cylinder** are water- and dust-tight according to IP54 DIN EN 60529.
- Housings with L = 36mm on request.
- Detailed dimensions of the handles see product system 1-130, 1-140.
- Part No. for PAGODA version with master key system on request.

Materials

a)

- **T-handle:** PA, black with zinc die core, or zinc die, chrome plated or black
- **Housing:** zinc die
- **Flat external seal:** NBR/Perbunan, black

b)

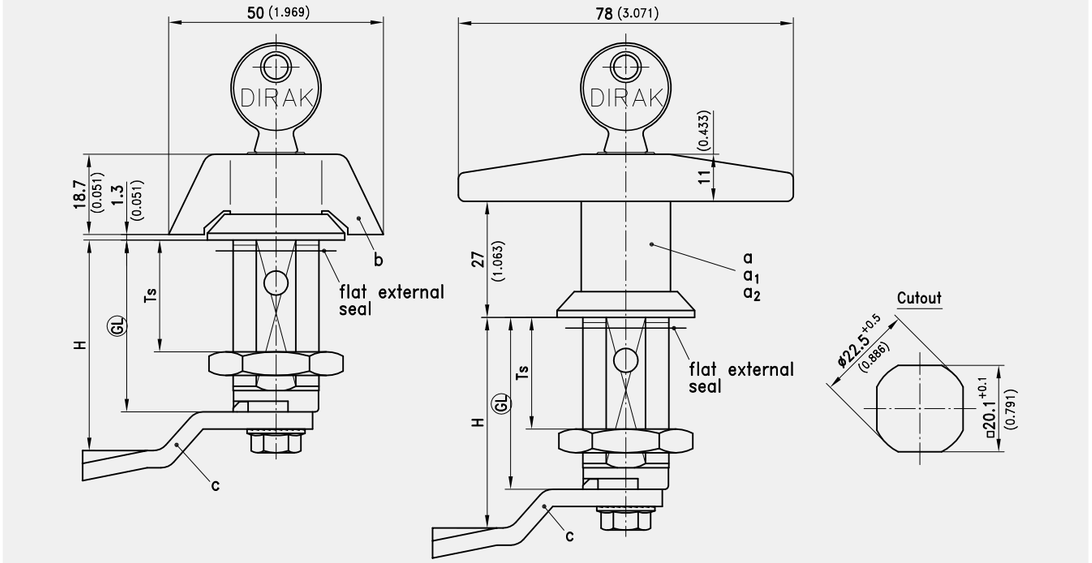
- **Wing knob:** PA, black with zinc die core
- **Housing:** zinc die, black

c)

- **Cam:** steel, zinc plated

Remarks

All lockable handles supplied with 2 keys.



Quarter-Turn with T-handle, PA, black

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a)	200-9310.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a)	200-9313.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a)	500-9313.00-00000	30 mm	keyed alike DS200	max. 20 mm	IP54	Grounding nut
a)	200-9316.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a)	200-9311.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a)	200-9314.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a)	500-9314.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
a)	200-9317.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a)	200-9312.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a)	200-9315.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a)	500-9315.00-00000	50 mm	keyed alike DS200	max. 40 mm	IP54	Grounding nut
a)	200-9318.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a)	200-9346.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a)	200-9347.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a)	500-9347.00-00000	60 mm	keyed alike DS200	max. 50 mm	IP54	Grounding nut
a)	200-9348.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut

Quarter-Turn with T-handle, zinc die, chrome plated

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a1)	200-9334.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a1)	200-9337.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a1)	500-9337.00-00000	30 mm	keyed alike DS200	max. 20 mm	IP54	Grounding nut
a1)	200-9340.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a1)	501-9337.00-00000	30 mm	PAGODA keyed alike	max. 20 mm	IP54	Grounding nut
a1)	200-9335.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a1)	200-9338.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a1)	500-9338.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
a1)	200-9341.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a1)	501-9338.00-00000	40 mm	PAGODA keyed alike	max. 30 mm	IP54	Grounding nut
a1)	200-9336.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a1)	200-9339.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a1)	500-9339.00-00000	50 mm	keyed alike DS200	max. 40 mm	IP54	Grounding nut
a1)	200-9342.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a1)	200-9343.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a1)	200-9344.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a1)	500-9344.00-00000	60 mm	keyed alike DS200	max. 50 mm	IP54	Grounding nut
a1)	200-9345.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut

Quarter-Turn with T-handle, zinc die, black

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a2)	200-9352.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a2)	200-9356.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a2)	500-9356.00-00000	30 mm	keyed alike DS200	max. 20 mm	IP54	Grounding nut
a2)	200-9360.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a2)	501-9356.00-00000	30 mm	PAGODA keyed alike	max. 20 mm	IP54	Grounding nut
a2)	501-9360.00-00000	30 mm	PAGODA keyed different	max. 20 mm	IP54	Grounding nut
a2)	200-9353.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a2)	200-9357.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a2)	200-9361.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a2)	200-9354.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a2)	200-9358.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a2)	200-9362.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a2)	200-9355.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a2)	200-9359.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a2)	200-9363.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut

Quarter-Turn with wing knob, PA, black

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
b)	200-9322.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
b)	200-9325.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
b)	500-9325.00-00000	30 mm	keyed alike DS200	max. 20 mm	IP54	Grounding nut
b)	200-9328.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
b)	200-9323.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
b)	200-9326.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
b)	500-9326.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
b)	200-9329.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
b)	200-9324.00-00000	50 mm		max. 40 mm	IP54	Grounding nut
b)	200-9327.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
b)	500-9327.00-00000	50 mm	keyed alike DS200	max. 40 mm	IP54	Grounding nut
b)	200-9330.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
b)	200-9349.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
b)	200-9350.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
b)	500-9350.00-00000	60 mm	keyed alike DS200	max. 50 mm	IP54	Grounding nut
b)	200-9351.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut

	Accessories
c)	160 1-102 **Cams L35/45 steel**
c)	167 1-262 **Cam variable**

Quarter-Turn with T-Handle Pr20.1 L18 [7-090]



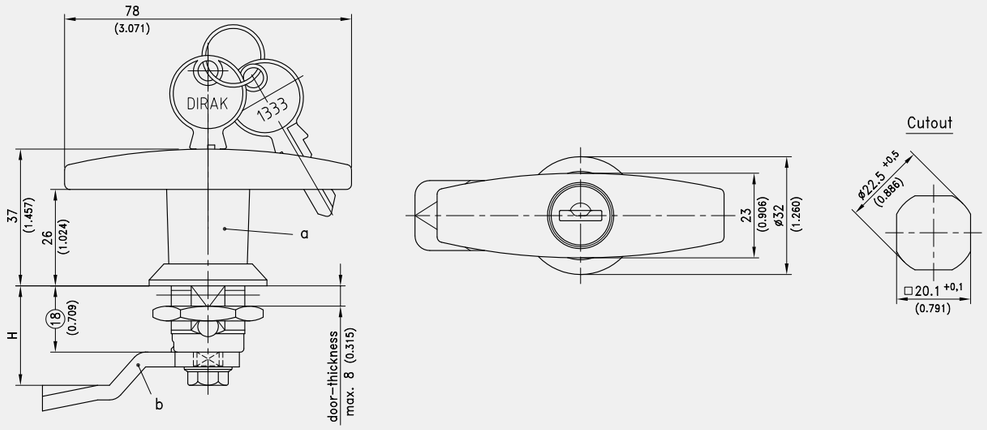
stainless steel AISI 316, for cutout 20.1, length 18

Advantages

- Quarter-Turn with T-handle.
- RH or LH application.
- IP65 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.

Materials

- **T-Handle:** completely AISI 316, surface polished
- **Nut and cam:** stainless steel



Quarter-Turn with T-handle+fitting nut

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Installation type
a)	200-9374.00-00000	18 mm		max. 8 mm	Grounding nut	screw-on
a)	200-9398.00-00000	18 mm	keyed alike DIRAK 1333	max. 8 mm	Grounding nut	screw-on
a)	200-9399.00-00000	18 mm	keyed different	max. 8 mm	Grounding nut	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 162 7-105 **Cams L35/45 stainless steel**
b) 167 1-262 **Cam variable**

Assembly options

c) 200-0001.00-00000 **Assembling cam without o-ring**
c) 200-0019.00-00000 **Assembling cam 90° to handle without o-ring**

Quarter-Turn with T-Handle Pr20.1 L30/50 [7-095.02]



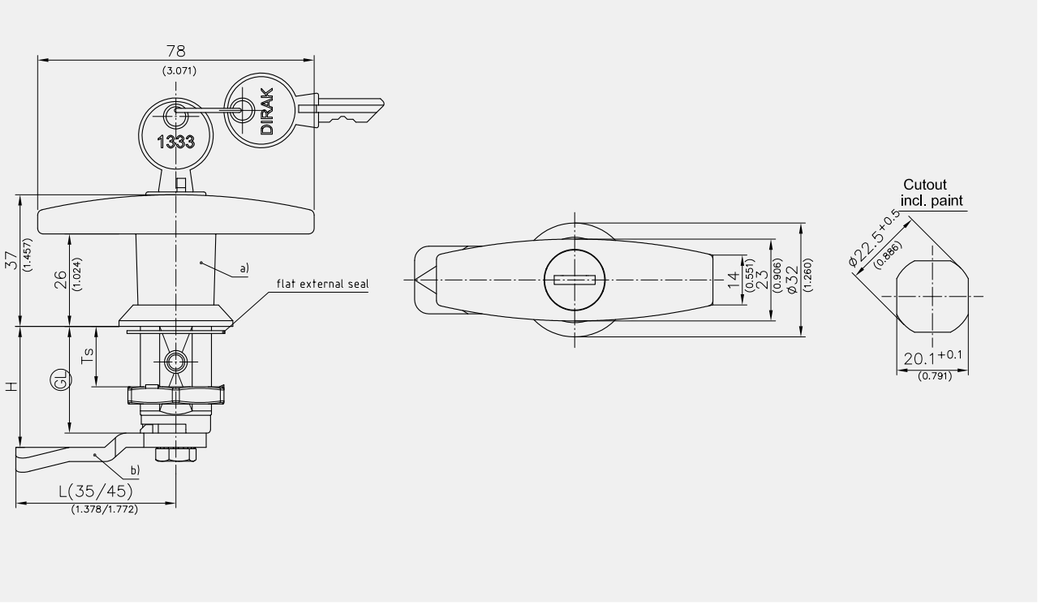
stainless steel AISI 304, for cutout 20.1, lengths 30 and 50

Advantages

- Quarter-Turn with T-handle with extended housing.
- Maximum door-thickness 20mm / 40mm.
- RH and LH application.
- Single sided grounding nut.
- IP65 according to DIN EN 60529.
- Pre-assembled without cam.
- Further housing lengths on request.
- All lockable handles supplied with two keys.
- **Price and delivery time on request.**

Materials

- **Handle:** stainless steel AISI 304, satin polished
- **Housing, grounding nut and adapter:** stainless steel
- **Flat external seal:** NBR, black



Quarter-Turn with T-handle

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Installation type
a)	100-9401.00-00000	30 mm		max. 20 mm	Grounding nut	screw-on
a)	100-9402.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	Grounding nut	screw-on
a)	100-9403.00-00000	30 mm	keyed different	max. 20 mm	Grounding nut	screw-on
a)	100-9404.00-00000	50 mm		max. 40 mm	Grounding nut	screw-on
a)	100-9405.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	Grounding nut	screw-on
a)	100-9406.00-00000	50 mm	keyed different	max. 40 mm	Grounding nut	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 162 7-105 **Cams L35/45 stainless steel**
b) 167 1-262 **Cam variable**

Assembly options

c) 200-0001.00-00000 **Assembling cam without o-ring**
c) 200-0019.00-00000 **Assembling cam 90° to handle without o-ring**

Quarter-Turn with L-Handle Pr20.1 L18

[1-150]



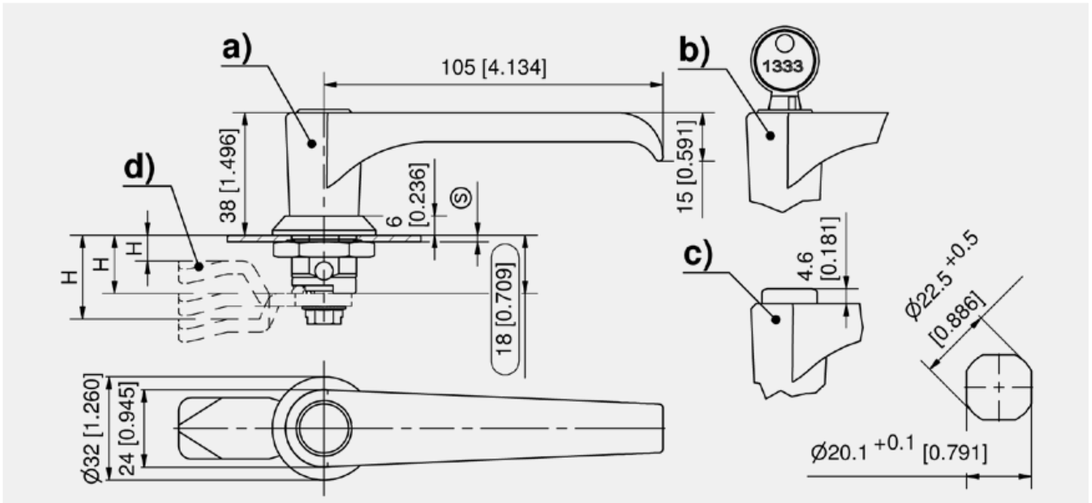
for cutout 20.1, length 18, with or without cylinder

Advantages

- Quarter-Turn with L-handle.
- RH or LH application.
- Versions **without cylinder** are water- and dust-tight according to IP65 DIN EN 60529.
- Versions **with cylinder** are water- and dust-tight according to IP54 DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All lockable handles supplied with two keys.

Materials

- **L-handle:** PA, black with zinc die core or zinc die, chrome plated or black
- **Grounding nut:** zinc die, untreated
- **Cam:** steel, zinc plated



Quarter-Turn with L-handle, PA, black with zinc die core

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9401.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
b)	200-9402.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
b)	500-9402.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm
b)	200-9403.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
c)	200-9483.00-00000	18 mm	Push button	IP65	Grounding nut	max. 8 mm

Quarter-Turn with L-handle, zinc die, chrome plated

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9419.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
b)	200-9420.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
b)	200-9437.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
b)	500-9420.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm
b)	501-9420.00-00000	18 mm	PAGODA keyed alike	IP54	Grounding nut	max. 8 mm
b)	501-9437.00-00000	18 mm	PAGODA keyed different	IP54	Grounding nut	max. 8 mm

Quarter-Turn with L-handle, zinc die, black

	Part Number	Housing length	Latching type	IP protection	Grounding type	Door-thickness
a)	200-9427.00-00000	18 mm		IP65	Grounding nut	max. 8 mm
b)	200-9428.00-00000	18 mm	keyed alike DIRAK 1333	IP54	Grounding nut	max. 8 mm
b)	200-9438.00-00000	18 mm	keyed different	IP54	Grounding nut	max. 8 mm
b)	500-9428.00-00000	18 mm	keyed alike DS200	IP54	Grounding nut	max. 8 mm
b)	501-9428.00-00000	18 mm	PAGODA keyed alike	IP65	Grounding nut	max. 8 mm
b)	501-9438.00-00000	18 mm	PAGODA keyed different	IP54	Grounding nut	max. 8 mm

Accessories

d) 160 1-102 **Cams L35/45 steel**
d) 167 1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
200-0020.00-00000 **Assembling cam, LH door**

Quarter-Turn with L-Handle Pr20.1 L30-60 [1-155.01]



Advantages

- Quarter-Turn with L-handle with extended housing and plain/grounding nut.
- Maximum door-thickness 50mm.
- All versions of L-handles are supplied complete with housing.
- Versions **without cylinder** are water- and dust-tight according to IP65 DIN EN 60529.
- Versions **with cylinder** are water- and dust-tight according to IP54 DIN EN 60529.
- Housings with L=36mm on request.
- Detailed dimensions of the handles see product system 1-150.

Materials

a)

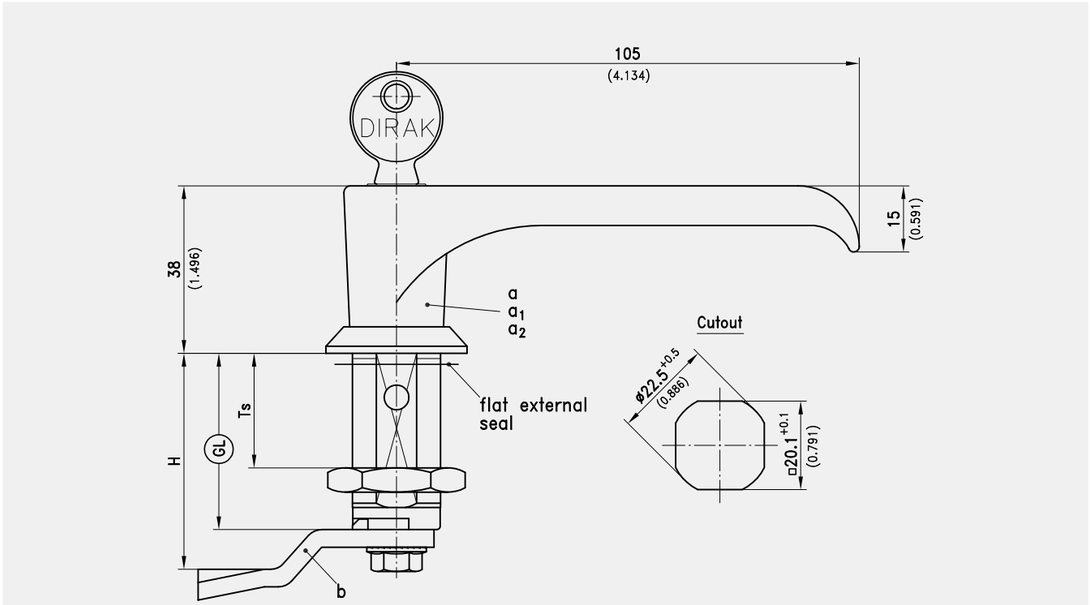
- **Handles:** PA, black with zinc die core or zinc die, chrome plated or black
- **Housing:** zinc die
- **Flat external seal:** NBR/Perbunan, black

b)

- **Cam:** steel, zinc plated

Remarks

All lockable handles supplied with 2 keys.



Quarter-Turn with L-handle, PA, black

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a)	200-9404.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a)	200-9407.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a)	500-9407.00-00000	30 mm	keyed alike DS200	max. 20 mm	IP54	Grounding nut
a)	200-9410.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a)	200-9405.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a)	200-9408.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a)	500-9408.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
a)	200-9411.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a)	200-9406.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a)	200-9409.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a)	500-9409.00-00000	50 mm	keyed alike DS200	max. 40 mm	IP54	Grounding nut
a)	200-9412.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a)	200-9414.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a)	200-9415.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a)	500-9415.00-00000	60 mm	keyed alike DS200	max. 50 mm	IP54	Grounding nut
a)	200-9416.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut

Quarter-Turn with L-handle, zinc die, chrome plated

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a1)	200-9439.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a1)	200-9443.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a1)	200-9447.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a1)	501-9443.00-00000	30 mm	PAGODA keyed alike	max. 20 mm	IP54	Grounding nut
a1)	501-9447.00-00000	30 mm	PAGODA keyed different	max. 20 mm	IP54	Grounding nut
a1)	200-9440.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a1)	200-9444.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a1)	500-9444.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
a1)	200-9448.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a1)	501-9444.00-00000	40 mm	PAGODA keyed alike	max. 30 mm	IP54	Grounding nut
a1)	501-9448.00-00000	40 mm	PAGODA keyed different	max. 30 mm	IP54	Grounding nut
a1)	200-9441.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a1)	200-9445.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a1)	200-9449.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a1)	501-9445.00-00000	50 mm	PAGODA keyed alike	max. 40 mm	IP54	Grounding nut
a1)	501-9449.00-00000	50 mm	PAGODA keyed different	max. 40 mm	IP54	Grounding nut
a1)	200-9442.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a1)	200-9446.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a1)	200-9450.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut
a1)	501-9446.00-00000	60 mm	PAGODA keyed alike	max. 50 mm	IP54	Grounding nut
a1)	501-9450.00-00000	60 mm	PAGODA keyed different	max. 50 mm	IP54	Grounding nut

Quarter-Turn with L-handle, zinc die, black

	Part Number	Housing length	Latching type	Door-thickness	IP protection	Grounding type
a2)	200-9451.00-00000	30 mm		max. 20 mm	IP65	Grounding nut
a2)	200-9455.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	IP54	Grounding nut
a2)	200-9459.00-00000	30 mm	keyed different	max. 20 mm	IP54	Grounding nut
a2)	501-9455.00-00000	30 mm	PAGODA keyed alike	max. 20 mm	IP54	Grounding nut
a2)	501-9459.00-00000	30 mm	PAGODA keyed different	max. 20 mm	IP54	Grounding nut
a2)	200-9452.00-00000	40 mm		max. 30 mm	IP65	Grounding nut
a2)	200-9456.00-00000	40 mm	keyed alike DIRAK 1333	max. 30 mm	IP54	Grounding nut
a2)	500-9456.00-00000	40 mm	keyed alike DS200	max. 30 mm	IP54	Grounding nut
a2)	200-9460.00-00000	40 mm	keyed different	max. 30 mm	IP54	Grounding nut
a2)	501-9456.00-00000	40 mm	PAGODA keyed alike	max. 30 mm	IP54	Grounding nut
a2)	501-9460.00-00000	40 mm	PAGODA keyed different	max. 30 mm	IP54	Grounding nut
a2)	200-9453.00-00000	50 mm		max. 40 mm	IP65	Grounding nut
a2)	200-9457.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	IP54	Grounding nut
a2)	500-9457.00-00000	50 mm	keyed alike DS200	max. 40 mm	IP54	Grounding nut
a2)	200-9461.00-00000	50 mm	keyed different	max. 40 mm	IP54	Grounding nut
a2)	501-9457.00-00000	50 mm	PAGODA keyed alike	max. 40 mm	IP54	Grounding nut
a2)	501-9461.00-00000	50 mm	PAGODA keyed different	max. 40 mm	IP54	Grounding nut
a2)	200-9454.00-00000	60 mm		max. 50 mm	IP65	Grounding nut
a2)	200-9458.00-00000	60 mm	keyed alike DIRAK 1333	max. 50 mm	IP54	Grounding nut
a2)	500-9458.00-00000	60 mm	keyed alike DS200	max. 50 mm	IP54	Grounding nut
a2)	200-9462.00-00000	60 mm	keyed different	max. 50 mm	IP54	Grounding nut
a2)	501-9458.00-00000	60 mm	PAGODA keyed alike	max. 50 mm	IP54	Grounding nut
a2)	501-9462.00-00000	60 mm	PAGODA keyed different	max. 50 mm	IP54	Grounding nut

	Accessories
b)	160 1-102 **Cams L35/45 steel**
b)	167 1-262 **Cam variable**

Quarter-Turn with L-Handle Pr20.1 L18 [7-103]



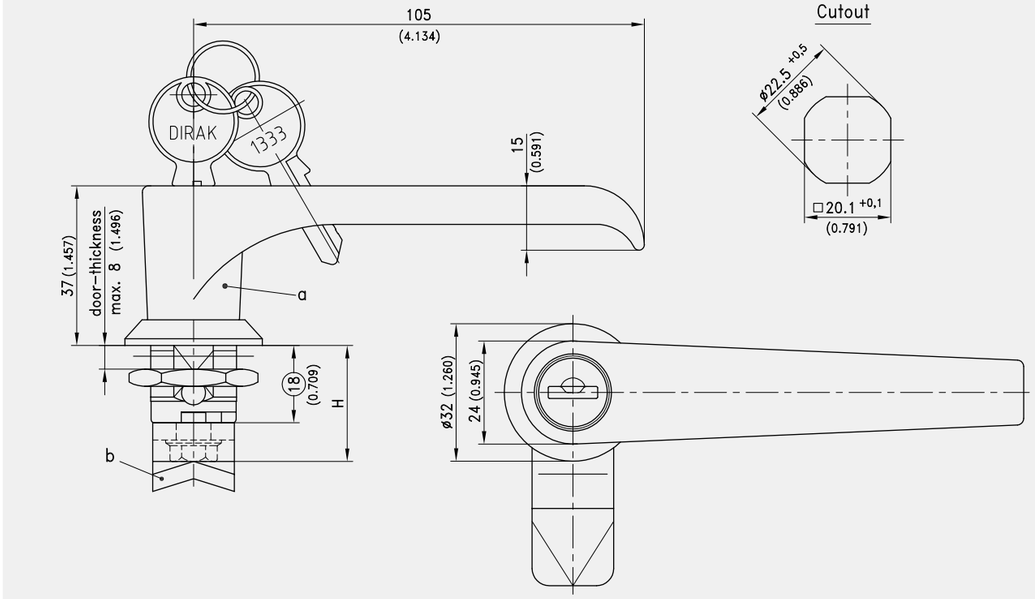
stainless steel AISI 316, for cutout 20.1, length 18

Advantages

- Quarter-Turn with L-handle.
- RH or LH application.
- IP65 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- All lockable handles supplied with two keys.
- **Price and delivery time on request.**

Materials

- **L-handle:** completely stainless steel AISI 316, surface polished
- **Nut and cam:** stainless steel



Quarter-Turn with L-Handle

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Material	Installation type
a)	200-9418.00-00000	18 mm		max. 8 mm	Grounding nut	Stainless Steel	screw-on
a)	200-9485.00-00000	18 mm	keyed alike DIRAK 1333	max. 8 mm	Grounding nut	Stainless Steel	screw-on
a)	200-9486.00-00000	18 mm	keyed different	max. 8 mm	Grounding nut	Stainless Steel	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 162 7-105 **Cams L35/45 stainless steel**
b) 167 1-262 **Cam variable**

Assembly options

c) 200-0001.00-00000 **Assembling cam without o-ring**
c) 200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
c) 200-0020.00-00000 **Assembling cam, LH door**

Quarter-Turn with L-Handle Pr20.1 L30/50 [7-095.01]



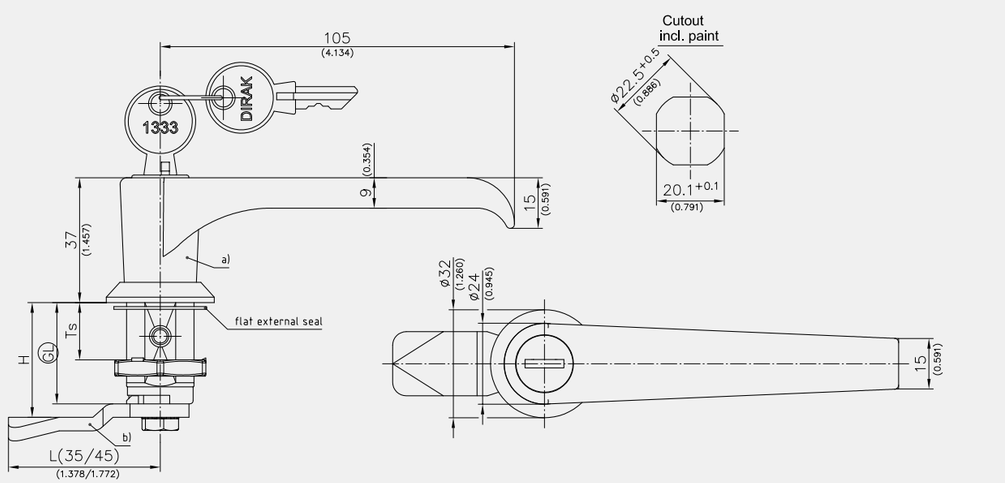
stainless steel AISI 316, for cutout 20.1, lengths 30 and 50

Advantages

- Quarter-Turn with L-handle with extended housing.
- Maximum door-thickness 20mm / 40mm.
- RH and LH application.
- Single sided grounding nut.
- IP65 according to DIN EN 60529.
- Pre-assembled without cam.
- Further housing lengths on request.
- All lockable handles supplied with two keys.
- **Price and delivery time on request.**

Materials

- **Handle:** AISI 316, satin polished
- **Housing, grounding nut and adapter:** stainless steel
- **Flat external seal:** NBR, black



Quarter-Turn with L-handle

	Part Number	Housing length	Latching type	Door-thickness	Grounding type	Installation type
a)	100-9407.00-00000	30 mm		max. 20 mm	Grounding nut	screw-on
a)	100-9408.00-00000	30 mm	keyed alike DIRAK 1333	max. 20 mm	Grounding nut	screw-on
a)	100-9409.00-00000	30 mm	keyed different	max. 20 mm	Grounding nut	screw-on
a)	100-9410.00-00000	50 mm		max. 40 mm	Grounding nut	screw-on
a)	100-9411.00-00000	50 mm	keyed alike DIRAK 1333	max. 40 mm	Grounding nut	screw-on
a)	100-9412.00-00000	50 mm	keyed different	max. 40 mm	Grounding nut	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 162 7-105 **Cams L35/45 stainless steel**
b) 167 1-262 **Cam variable**

Assembly options

c) 200-0001.00-00000 **Assembling cam without o-ring**
c) 200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
c) 200-0020.00-00000 **Assembling cam, LH door**

Quarter-Turn with L-Handle Pr20.1 L18

[1-151]



for cutout 20.1, length 18, with different inserts

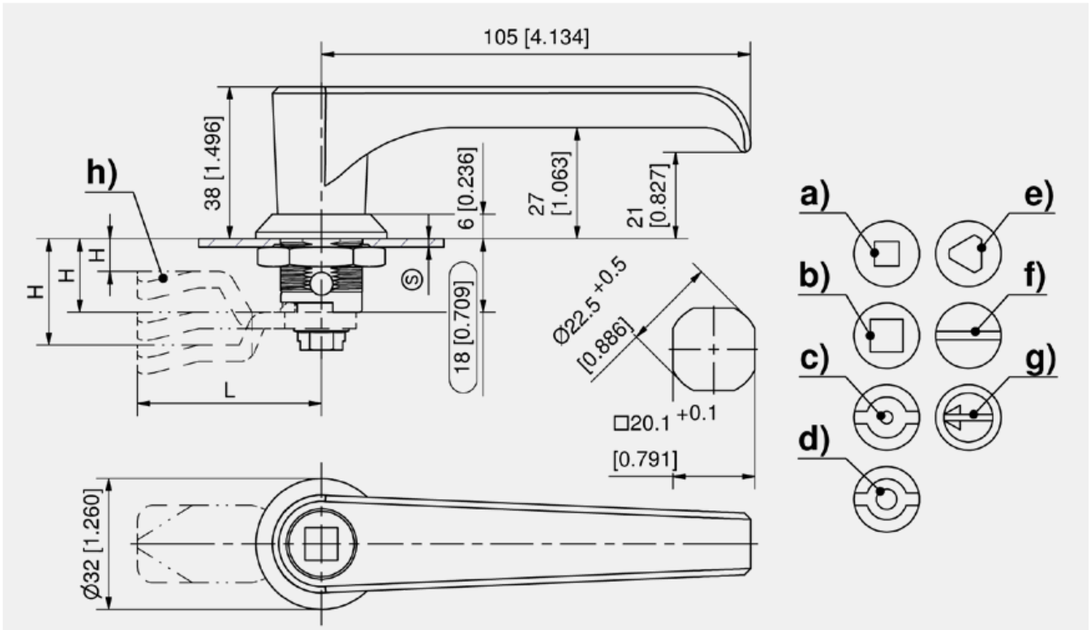
Advantages

- Quarter-Turn with L-handle for inserts.
- RH or LH application.
- IP65 according to DIN EN 60529.
- The radial spring loaded insert automatically locks the handle when the handle rotates back into the closed position.
- This Quarter-Turn with L-handle consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.

Materials

a)
- **L-handle:** PA, black with zinc die core
- **Insert:** zinc die, chrome plated

b)
- **Cam:** steel, zinc plated



Quarter-Turn with L-handle, PA, black with zinc die core

	Part Number	Housing length	Door-thickness	Insert	Grounding type
a)	200-9429.00-00000	18 mm	max. 8 mm	Square 6mm	Grounding nut
b)	200-9431.00-00000	18 mm	max. 8 mm	Square 8mm	Grounding nut
c)	200-9432.00-00000	18 mm	max. 8 mm	Double bit 3mm pin	Grounding nut
d)	200-9433.00-00000	18 mm	max. 8 mm	Double bit 5mm pin	Grounding nut
e)	200-9435.00-00000	18 mm	max. 8 mm	Triangular 8mm	Grounding nut
f)	200-9436.00-00000	18 mm	max. 8 mm	Slotted 2x4mm	Grounding nut
g)	200-9475.00-00000	18 mm	max. 8 mm	Slotted recessed coinproof	Grounding nut

Accessories

	758	6-100 **Key**
h)	160	1-102 **Cams L35/45 steel**
h)	167	1-262 **Cam variable**

Assembly options

200-0001.00-00000 **Assembling cam without o-ring**
200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
200-0020.00-00000 **Assembling cam, LH door**

Quarter-Turn Pr20.1 L22-32 for Padlock

[1-117]



for cutout 20.1, lengths 22 and 32

Advantages

- Quarter-Turn, RH or LH application.
- Quarter-Turn for padlock.
- The Quarter-Turn consists of three basic components a, b and c, which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- IP65 according to DIN EN 60529 by sealing kit.

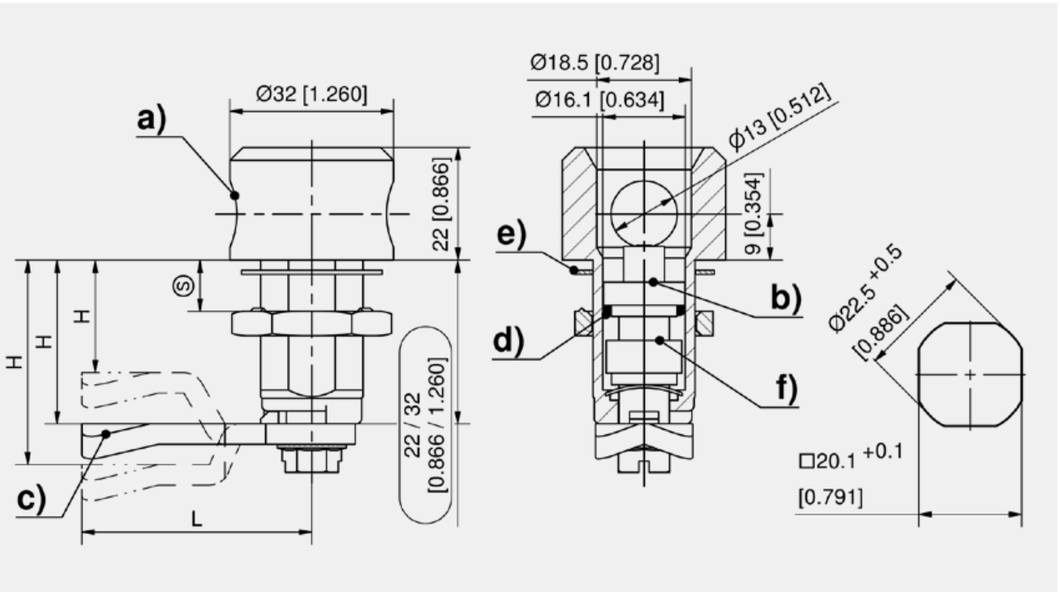
Materials

a)
- **Housing:** zinc die, chrome plated or black

b)
- **Insert:** zinc die, chrome plated or black or combination of PA, black/zinc die

c)
- **Cams:** steel, zinc plated

d)
- **Adapter:** zinc die, untreated



Quarter-Turn

	Part Number	Housing length	Door-thickness	Grounding type	Material	Surface
a)	200-9082.00-00000	22 mm	max. 12 mm	Grounding nut	zinc die	chrome plated
a)	200-9083.00-00000	22 mm	max. 12 mm	Grounding nut	zinc die	black
a)	200-9084.00-00000	32 mm	max. 22 mm	Grounding nut	zinc die	chrome plated
a)	200-9085.00-00000	32 mm	max. 22 mm	Grounding nut	zinc die	black

Accessories

b)	156	1-101 **Inserts Pr20.1**
c)	160	1-102 **Cams L35/45 steel**
f)		200-9031.00-00000 **Adapter set L20**

Function extension

d) and e)	209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

Quarter-Turn with Wing Knob Pr20.1 L18/40 [1-132]



for cutout 20.1, lengths 18 and 40, for padlock

Advantages

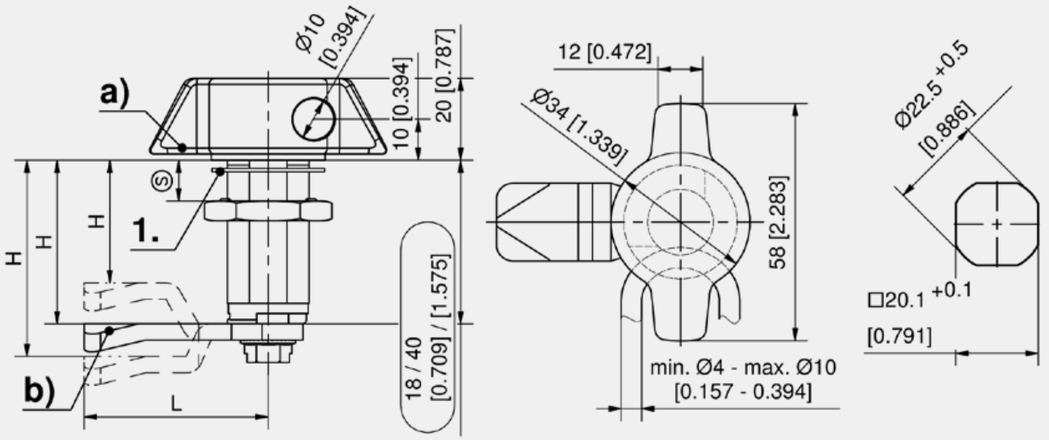
- Quarter-Turn with wing knob for padlock, screw-in type.
- RH or LH application
- IP65 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Padlock feature only if cam is at 90° to the handle.**

Materials

- **Wing knob:** zinc die, chrome plated or black
- **Housing:** zinc die, zinc plated
- **Cam:** steel, zinc plated

Remarks

1. = Seal



Quarter-Turn with wing knob, zinc die, chrome plated

	Part Number	Housing length	Door-thickness	Grounding type	Installation type
a)	200-9364.00-00000	18 mm	max. 8 mm	Grounding nut	screw-on
a)	100-9310.00-00000	40 mm	max. 30 mm	Grounding nut	screw-on

Quarter-Turn with wing knob, zinc die, black

	Part Number	Version	Housing length	Door-thickness	Grounding type	Installation type
a)	200-9365.00-00000	E-coated	18 mm	max. 8 mm	Grounding nut	screw-on
a)	100-9311.00-00000	E-coated	40 mm	max. 30 mm	Grounding nut	screw-on
a)	200-9365.TX-00000	Textured powder, black	18 mm	max. 8 mm	Grounding nut	screw-on
a)	100-9311.TX-00000	Textured powder, black	40 mm	max. 30 mm	Grounding nut	screw-on

Accessories

b)	160	1-102 **Cams L35/45 steel**
b)	167	1-262 **Cam variable**

Assembly options

200-0020.00-00000 **Assembling cam, LH door**
200-0021.00-00000 **Assembling cam, RH door**

Quarter-Turn with Wing Knob Pr20.1 L18 [7-085]



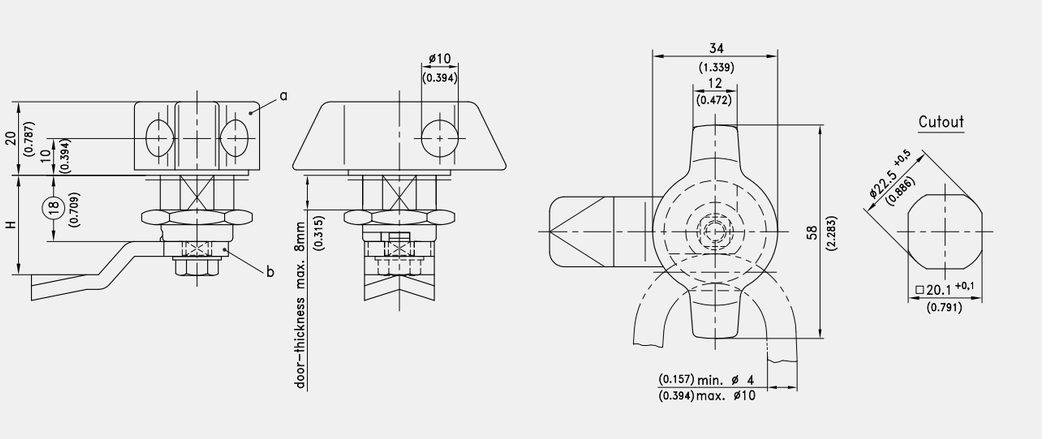
for cutout 20.1, length 18, for padlock, stainless steel AISI 316

Advantages

- Quarter-Turn with wing for padlock.
- RH or LH application.
- IP65/67 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Padlock feature only if cam is at 90° to the winghandle.**

Materials

- **Wing:** stainless steel AISI 316, surface polished
- **Housing, nut and cam:** stainless steel



Quarter-Turn with wing knob

	Part Number	Housing length	Door-thickness	Material	Grounding type	Installation type
a)	200-9375.00-00000	18 mm	max. 8 mm	Stainless Steel	Grounding nut	screw-on

Accessories

b)	160	1-102 **Cams L35/45 steel**
b)	162	7-105 **Cams L35/45 stainless steel**
b)	167	1-262 **Cam variable**

Assembly options

c)	200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
c)	200-0020.00-00000 **Assembling cam, LH door**

Quarter-Turn with L-Handle Pr20.1 L18 and 40 [1-154]



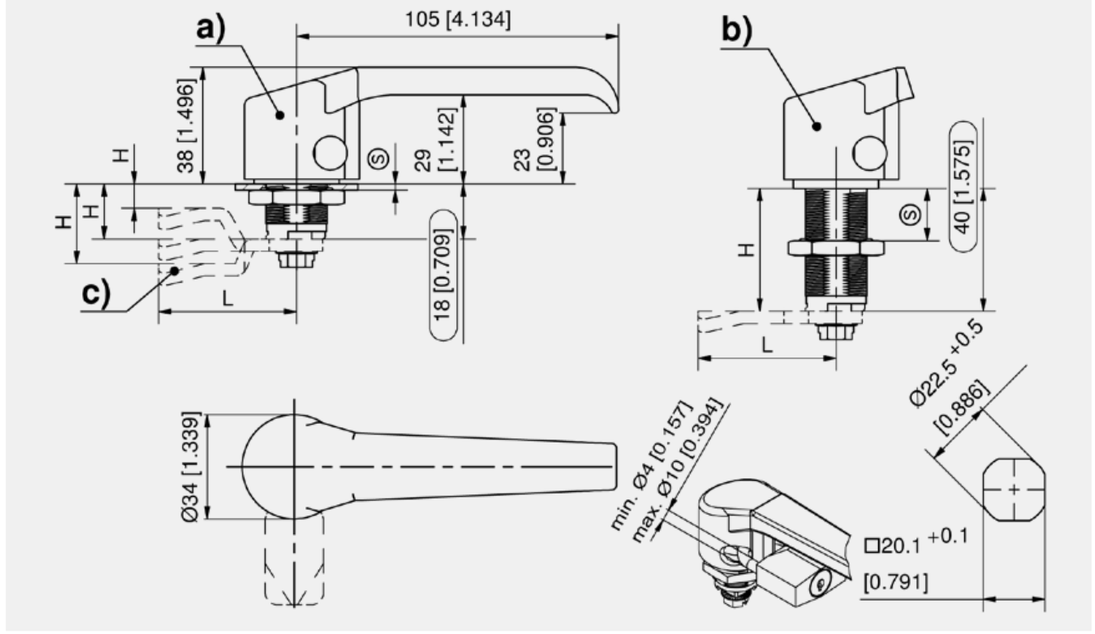
for cutout 20.1, only for padlock, lengths 18 and 40

Advantages

- Quarter-Turn with L-handle for padlock with 90° rotation.
- Screw-in type.
- RH or LH application.
- IP65 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Padlock feature only if cam is at 90° to the handle.**

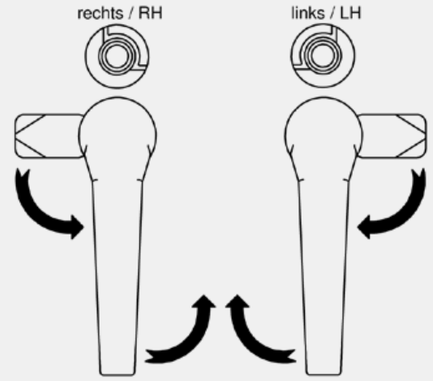
Materials

- **L-handle:** zinc die, chrome plated or black
- **Housing:** zinc die, zinc plated
- **Cam:** steel, zinc plated



Einbauanleitung für 1-154 und 154.01 / installation instructions for 1-154 and 154.01

Einbaustellung des Gehäuses, gesehen von der Türseite, bei: / fitting position of housing, seen from outside of the door, at:



Quarter-Turn with L-Handle

	Part Number	Housing length	Door-thickness	Surface	Version	Grounding type	Installation type
a)	200-9463.00-00000	18 mm	max. 8 mm	chrome plated	glossy	Grounding nut	screw-on
a)	200-9464.00-00000	18 mm	max. 8 mm	black	E-coated	Grounding nut	screw-on
a)	200-9464.TX-00000	18 mm	max. 8 mm	black	Textured powder, black	Grounding nut	screw-on
b)	200-9491.00-00000	40 mm	max. 30 mm	chrome plated	glossy	Grounding nut	screw-on
b)	200-9492.00-00000	40 mm	max. 30 mm	black	E-coated	Grounding nut	screw-on
b)	200-9492.TX-00000	40 mm	max. 30 mm	black	Textured powder, black	Grounding nut	screw-on

Accessories

c) 160 1-102 **Cams L35/45 steel**
c) 167 1-262 **Cam variable**

Assembly options

200-0020.00-00000 **Assembling cam, LH door**
200-0021.00-00000 **Assembling cam, RH door**

L-Handle for Padlock Pr20.1 L18

[1-154.01]

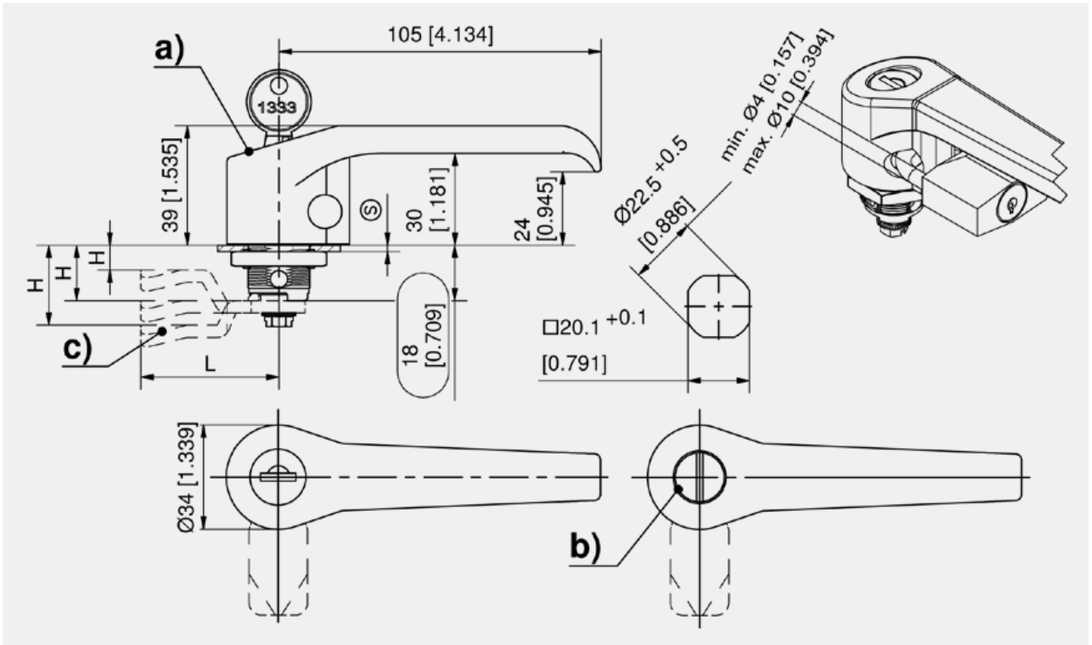


Advantages

- Quarter-Turn with L-handle for padlock with cylinder barrel or spring-loaded slotted insert.
- Screw-in type.
- RH / LH application.
- IP65 according to DIN EN 60529.
- This L-Handle consists of two basic parts which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Padlock feature only if cam is at 90° to the handle.**
- All lockable handles supplied with two keys.

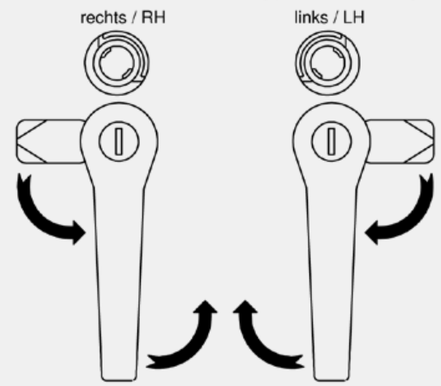
Materials

- **L-handle:** zinc die, black
- **Housing:** zinc die, zinc plated
- **Slotted insert:** zinc die, chrome plated
- **Cylinder barrel:** zinc die, with stainless dust cap
- **Cam:** steel, zinc plated



Einbauanleitung für 1-154 und 154.01 / installation instructions for 1-154 and 154.01

Einbaustellung des Gehäuses, gesehen von der Türseite, bei: / fitting position of housing, seen from outside of the door, at:



Quarter-Turn with L-Handle for padlock

	Part Number	Housing length	Door-thickness	Insert	Latching type	Grounding type	Surface	Version
a)	200-9488.00-00000	18 mm	max. 8 mm		keyed alike DIRAK 1333	Grounding nut	black	E-coated
a)	200-9488.TX-00000	18 mm	max. 8 mm		keyed alike DIRAK 1333	Grounding nut	black	Textured powder, black
a)	200-9490.00-00000	18 mm	max. 8 mm		keyed different	Grounding nut	black	E-coated
a)	200-9490.TX-00000	18 mm	max. 8 mm		keyed different	Grounding nut	black	Textured powder, black
b)	200-9489.00-00000	18 mm	max. 8 mm	Slotted 2x4mm		Grounding nut	black	E-coated
b)	200-9489.TX-00000	18 mm	max. 8 mm	Slotted 2x4mm		Grounding nut	black	Textured powder, black

Accessories

c) 160 1-102 **Cams L35/45 steel**
c) 167 1-262 **Cam variable**

Assembly options

200-0020.00-00000 **Assembling cam, LH door**
200-0021.00-00000 **Assembling cam, RH door**

Quarter-Turn with L-Handle Pr20.1 L18 [7-100]



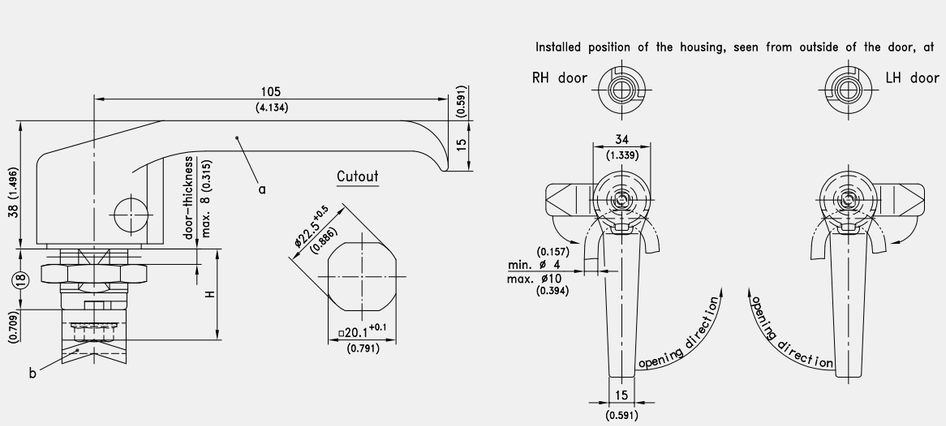
stainless steel AISI 316, for cutout 20.1, length 18, for padlock

Advantages

- Quarter-Turn with L-handle for padlock.
- RH or LH application.
- IP65 according to DIN EN 60529.
- The Quarter-Turn consists of two basic components which can be combined to suit your application.
- On request parts can be assembled by DIRAK.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- **Padlock feature only if cam is at 90° to the L-handle.**

Materials

- **L-Handle:** completely stainless steel AISI 316, surface polished
- **Grounding nut and cam:** stainless steel



Quarter-Turn with L-Handle

	Part Number	Housing length	Door-thickness	Grounding type	Material	Installation type
a)	200-9481.00-00000	18 mm	max. 8 mm	Grounding nut	Stainless Steel	screw-on

Accessories

b) 160 1-102 **Cams L35/45 steel**
b) 162 7-105 **Cams L35/45 stainless steel**
b) 167 1-262 **Cam variable**

Assembly options

c) 200-0019.00-00000 **Assembling cam 90° to handle without o-ring**
c) 200-0020.00-00000 **Assembling cam, LH door**

L-Wing-Handle for Padlock Pr20.1 L18 [1-651]



Advantages

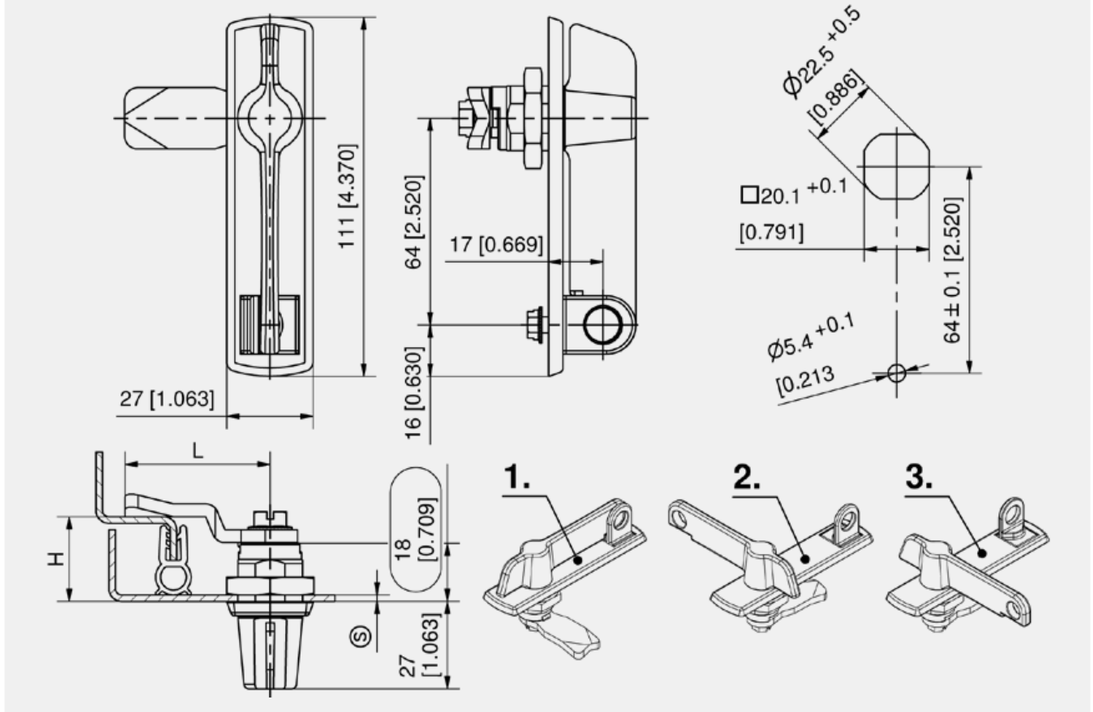
- For the standard cutout and additional hole for the padlock eyelet.
- The 2-point fixing prevents tempering.
- RH / LH application.
- The eyelet for the padlock, also used as a stop, is asymmetric and can be turned for RH or LH doors (door closed).
- In closed position the wing handle is always fully vertical.
- IP65 according to DIN EN 60529 by o-ring, flat external seal and washer.

Materials

- **Housing, stop and handle:** zinc die, black
- **Nut and hex.screw:** steel
- **Internal wave washer:** steel, zinc plated

Remarks

1. = closed version
2. = RH version
3. = LH version



L-wing-handle

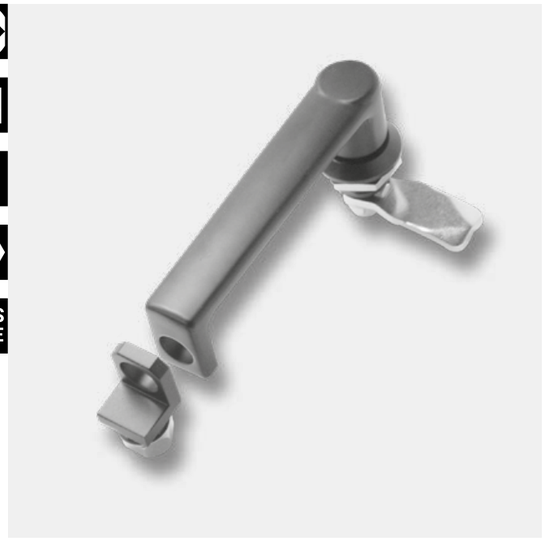
Part Number	Housing length	Door-thickness	Material	Surface
281-9101.00-00000	18 mm	max. 8 mm	zinc die	black

Accessories

160 1-102 **Cams L35/45 steel**
167 1-262 **Cam variable**
200-1001.00-00000 **O-ring 12 x 2.0mm**
200-0904.00-00000 **Flat external seal Ø21.8mm / 26.5mm**
832-0125.00-00005 **Washer**

Quarter-Turn with L-Handle Pr20.1 L18

[1-153]



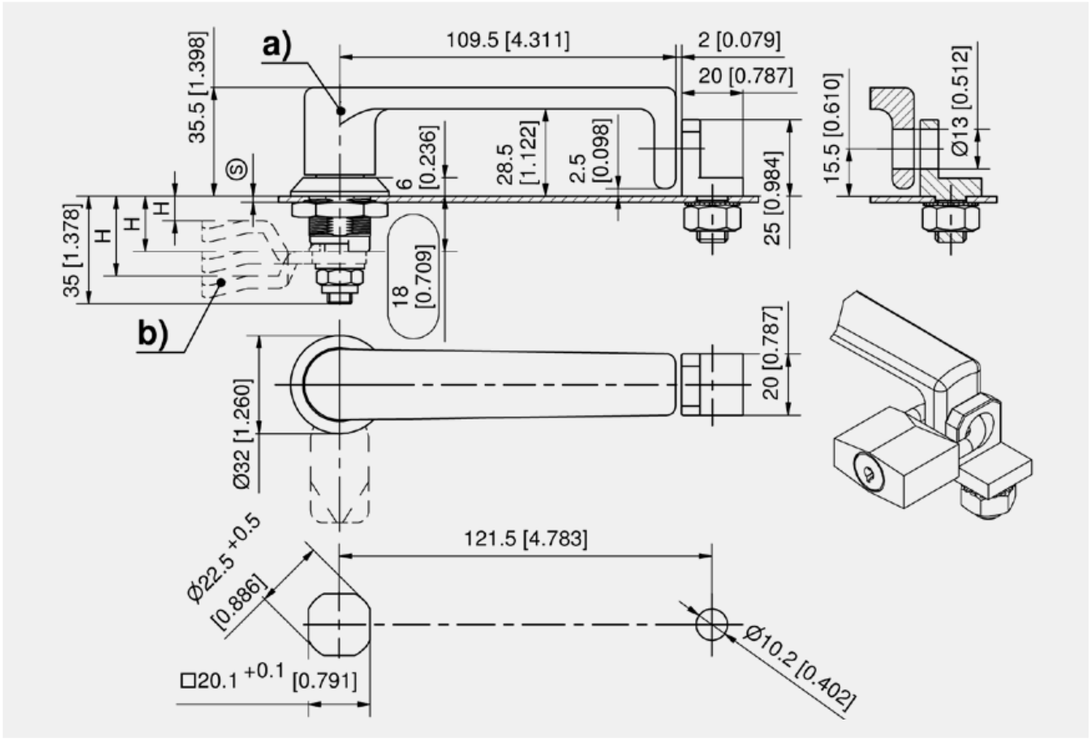
for cutout 20.1, length 18, for padlock

Advantages

- Quarter-Turn with L-handle for padlock.
- RH or LH application.
- IP65 according to DIN EN 60529.

Materials

- **Handle, hook and housing:** zinc die, black
- **Both threaded shafts in handle and hook:** steel, zinc plated



Quarter-Turn

	Part Number	Housing length	Door-thickness	Material	Surface	Installation type
a)	100-9413.00-00000	18 mm	max. 8 mm	zinc die	black	screw-on

	Accessories
b)	160 1-102 **Cams L35/45 steel**
b)	167 1-262 **Cam variable**

Quarter-Turn with L-Handle Pr20.1 L18

[7-104]



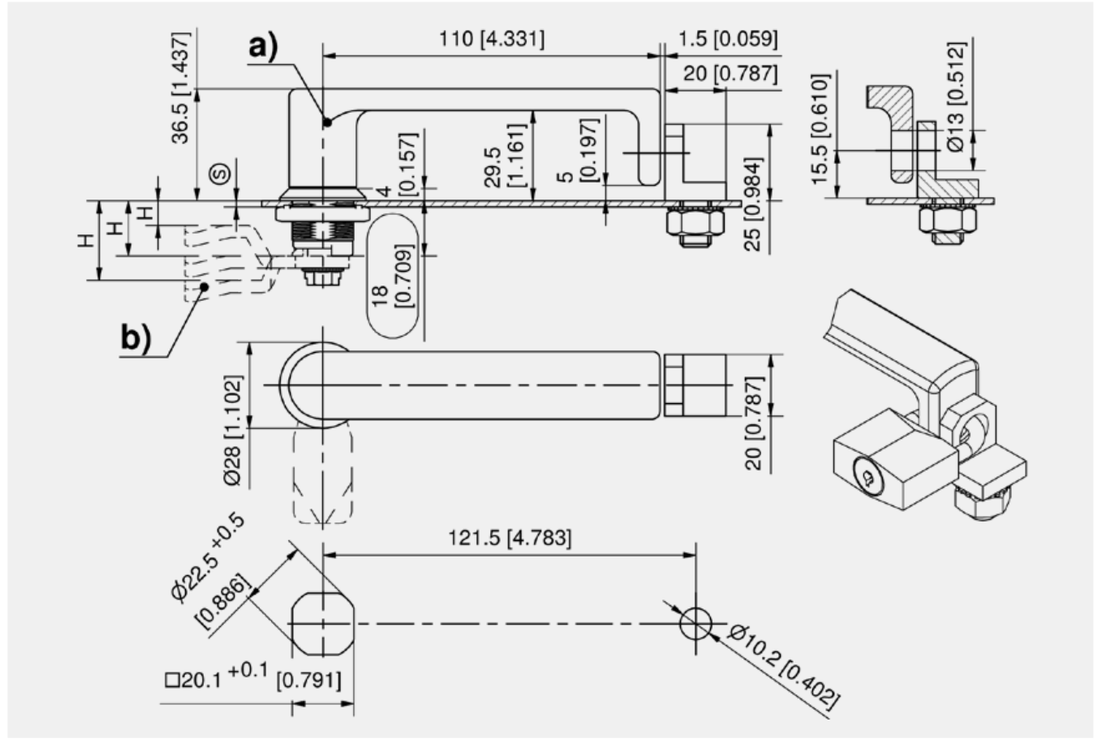
stainless steel AISI 316, for cutout 20.1, length 18, for padlock

Advantages

- Quarter-Turn with L-handle for padlock.
- RH or LH application.
- The Quarter-Turn with L-handle consists of two basic parts which can be combined to suit your application.
- IP65 according to DIN EN 60529 with 2 o-rings.

Materials

- **Handle and hook:** stainless steel AISI 304
- **Housing:** stainless steel AISI 316
- **Cam:** stainless steel AISI 304 or steel, zinc plated



Quarter-Turn with L-Handle

	Part Number	Housing length	Door-thickness	Material	Installation type
a)	200-9425.00-00000	18 mm	max. 5 mm	Stainless Steel	screw-on

	Accessories
b)	160 1-102 **Cams L35/45 steel**
b)	162 7-105 **Cams L35/45 stainless steel**
b)	167 1-262 **Cam variable**

DST Quarter-Turn with Handle

[6-1110DST]

DST

RoHS WEEE



with cylinder or insert, tool-less installation

Advantages

- Quarter-Turn with high-quality bowed handle with DIRAK-SNAP-Technology with cylinder or insert.
- The Housing for cylinder or insert can be turned by 90° and the handle can be used for RH/LH, horizontal and vertical applications.
- The handle can be equiped with cylinder or insert.
- The installation is effected by a simple push into appropriate cutouts.
- On request pre-assembled available.
- Please contact DIRAK for the part number of a completely pre-assembled handle.

Materials

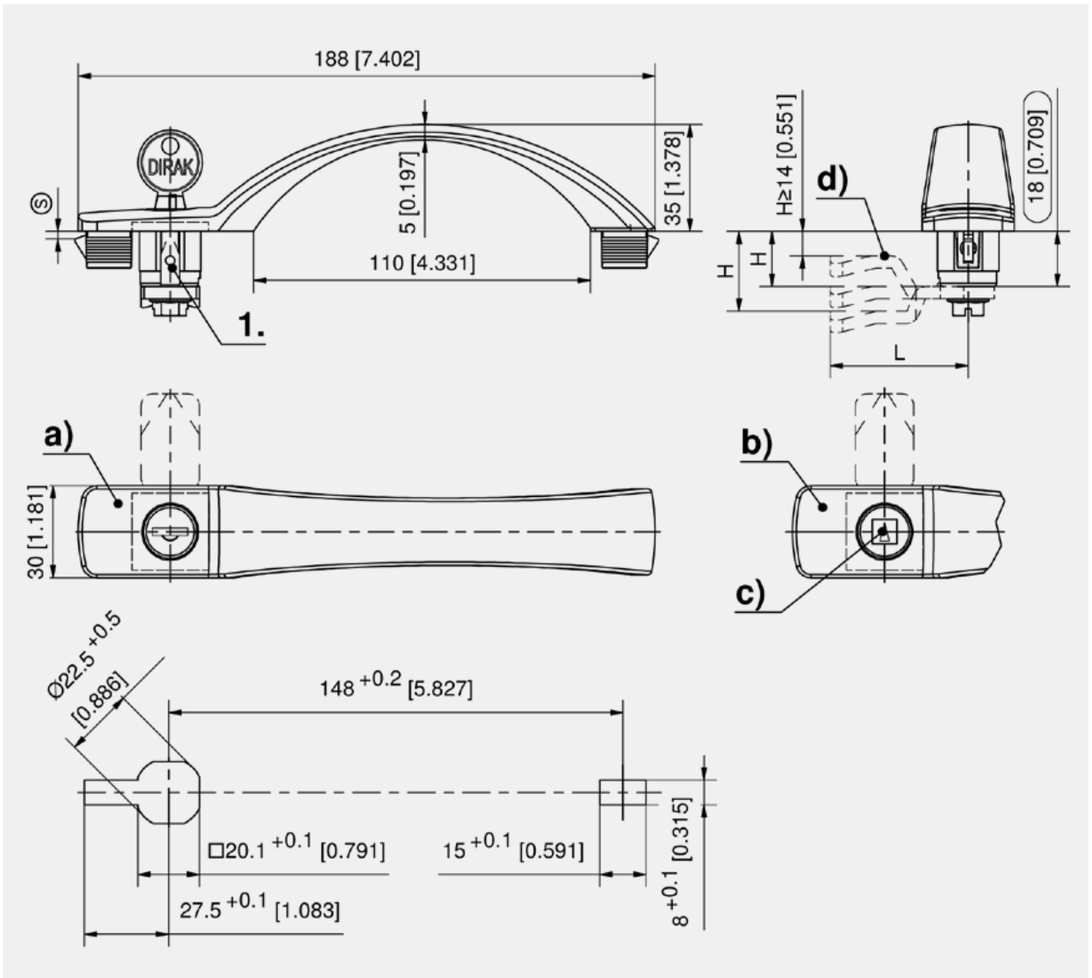
- **Handle:** zinc die, matt chrome plated
- **Other surfaces on request.**
- **Housing:** zinc die
- **Snap wedges:** sintered steel
- **Grounding clip:** stainless steel
- **Cams:** see c) and c1)

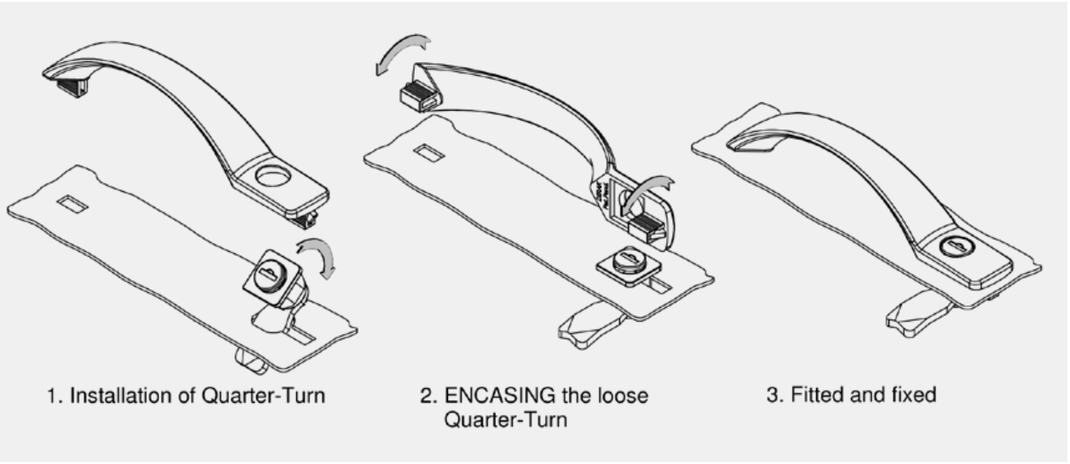
Remarks

Attention: H-dimension of the cam **≥14mm** (0.551)!

In case of applying a cylinder the 3-point cam should **not** be used.

1. Grounding clip





Bowed handle with cylinder

	Part Number	Clamping range	Latching type	Grounding type	Installation type
a)	413-9301.00-00012	0.8 - 1.5 mm	keyed alike DIRAK 1333		tool-less
a)	413-9301.00-00016	1.3 - 2.0 mm	keyed alike DIRAK 1333		tool-less
a)	413-9301.00-00020	1.8 - 2.5 mm	keyed alike DIRAK 1333		tool-less
a)	413-9302.00-00012	0.8 - 1.5 mm	keyed different		tool-less
a)	413-9302.00-00016	1.3 - 2.0 mm	keyed different		tool-less
a)	413-9302.00-00020	1.8 - 2.5 mm	keyed different		tool-less
a)	413-9305.00-00012	0.8 - 1.5 mm	keyed alike DIRAK 1333	Grounding clip	tool-less
a)	413-9305.00-00016	1.3 - 2.0 mm	keyed alike DIRAK 1333	Grounding clip	tool-less
a)	413-9305.00-00020	1.8 - 2.5 mm	keyed alike DIRAK 1333	Grounding clip	tool-less
a)	413-9306.00-00012	0.8 - 1.5 mm	keyed different	Grounding clip	tool-less
a)	413-9306.00-00016	1.3 - 2.0 mm	keyed different	Grounding clip	tool-less
a)	413-9306.00-00020	1.8 - 2.5 mm	keyed different	Grounding clip	tool-less

Bowed handle for Insert

	Part Number	Clamping range	Grounding type	Installation type
b)	413-9303.00-00012	0.8 - 1.5 mm		tool-less
b)	413-9303.00-00016	1.3 - 2.0 mm		tool-less
b)	413-9303.00-00020	1.8 - 2.5 mm		tool-less
b)	413-9307.00-00012	0.8 - 1.5 mm	Grounding clip	tool-less
b)	413-9307.00-00016	1.3 - 2.0 mm	Grounding clip	tool-less
b)	413-9307.00-00020	1.8 - 2.5 mm	Grounding clip	tool-less

	Accessories
c)	156 1-101 **Inserts Pr20.1**
d)	160 1-102 **Cams L35/45 steel**
d)	167 1-262 **Cam variable**
	182 2-151 **2-, 3- and 4-Point Cam Adapter**

Compression Latch with Spring Loaded Flap [7-071]



stainless steel AISI 316Ti

Advantages

- The open flap indicates locking position and protects against dust and water.
- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position and closes first, when compression latch is closed securely.
- Version b): secured against unintended opening at low pressure or high-speed.
- Flat seal (1.) damps the flap as well.

Materials

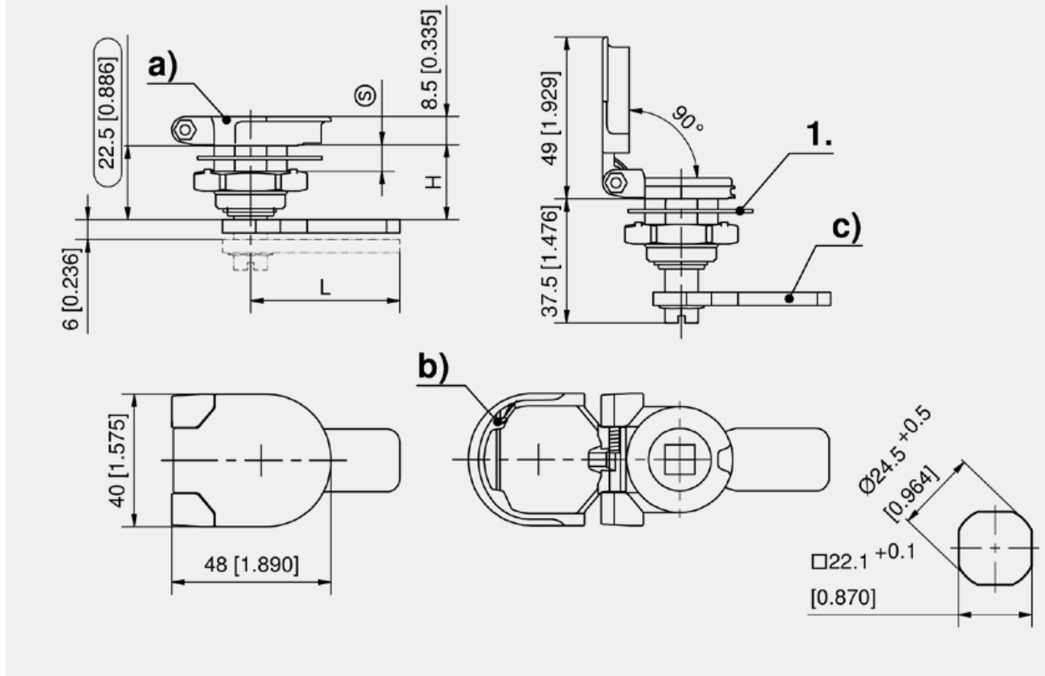
- **Housing, flap, insert, grounding nut:** stainless steel AISI 316Ti
- **Screw, nut:** stainless steel
- **Spring:** stainless steel
- **O-Ring:** NBR

Remarks

On request available with reflecting sticker on the inside.

Circumferential handle bar allows easy handling also with work- or safety gloves.

1. = Flat external seal



Compression Latch, version RH

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Compression	Construction depth	Installation type
a)	248-9603.00-00001	Double bit 3mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9603.00-00002	Double bit 5mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9603.00-00003	Square 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9603.00-00004	Triangular 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9603.00-00005	Conical square 9mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on

Compression Latch, version LH

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Compression	Construction depth	Installation type
a)	248-9652.00-00001	Double bit 3mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9652.00-00002	Double bit 5mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9652.00-00003	Square 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9652.00-00004	Triangular 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
a)	248-9652.00-00005	Conical square 9mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on

Compression Latch, version RH, spring secured

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Compression	Construction depth	Installation type
b)	248-9604.00-00001	Double bit 3mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9604.00-00002	Double bit 5mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9604.00-00003	Square 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9604.00-00004	Triangular 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9604.00-00005	Conical square 9mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on

Compression Latch, version LH, spring secured

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Compression	Construction depth	Installation type
b)	248-9653.00-00001	Double bit 3mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9653.00-00002	Double bit 5mm pin	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9653.00-00003	Square 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9653.00-00004	Triangular 8mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on
b)	248-9653.00-00005	Conical square 9mm	22.5 mm	max. 8 mm	Grounding nut	6	37.5 mm	screw-on

	Accessories
	758 6-100 **Key**
	757 6-101 **Multi Key**
c)	165 7-105.01 **Cams L35/45 without Ramp and Stop**

	Specific accessories
1.)	200-0916.00-00000 **Flat external seal for prod.system 7-071**

Compression Latch Pr22.1 with Flap

[1-075]

DIN 61373 · R L · IP 65/67 · 15 Nm · RoHS WEEE



Advantages

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position.
- The open flap indicates locking position and protects against dust and water.
- IP65/IP67 according to DIN EN
- The spring loaded flap first closes, when compression latch is closed securely.

Materials

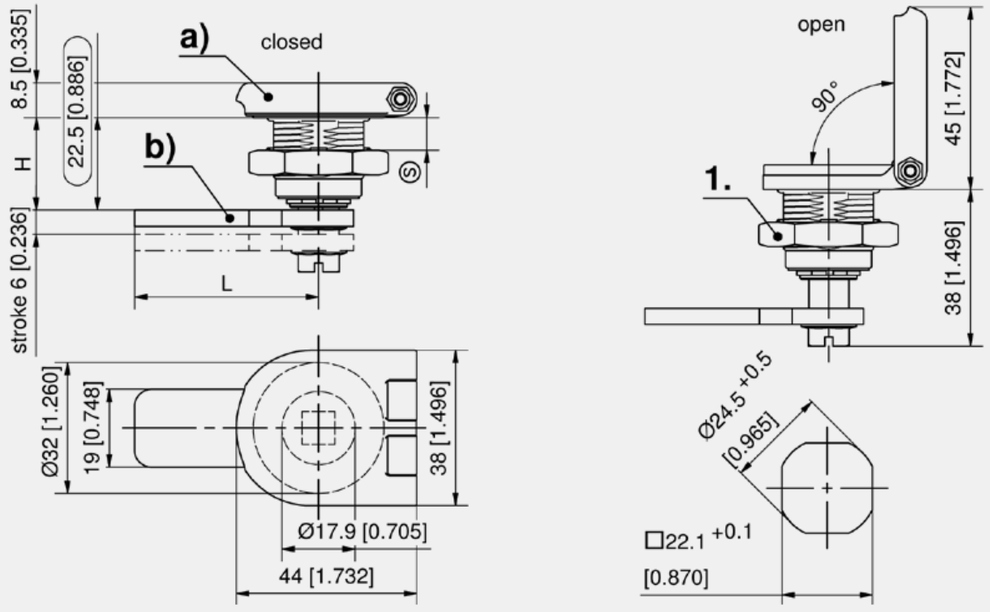
- **Housing, flap and insert:** zinc die, black
- **Grounding nut:** zinc die, untreated
- **Screw, nut and spring:** stainless steel
- **O-Rings:** NBR

Remarks

The H-dimension can be varied by the cranking of the cams.

1. Single sided grounding nut

(S) = max. 8 mm.



Compression Latch

	Part Number	Insert	Version	Grounding type	Compression
a)	248-9601.00-00001	Double bit 3mm pin	RH	Grounding nut	6
a)	248-9601.00-00002	Double bit 5mm pin	RH	Grounding nut	6
a)	248-9601.00-00003	Square 8mm	RH	Grounding nut	6
a)	248-9601.00-00004	Triangular 8mm	RH	Grounding nut	6
a)	248-9601.00-00005	Conical square 9mm	RH	Grounding nut	6
a)	248-9651.00-00001	Double bit 3mm pin	LH	Grounding nut	6
a)	248-9651.00-00002	Double bit 5mm pin	LH	Grounding nut	6
a)	248-9651.00-00003	Square 8mm	LH	Grounding nut	6
a)	248-9651.00-00004	Triangular 8mm	LH	Grounding nut	6
a)	248-9651.00-00005	Conical square 9mm	LH	Grounding nut	6

Accessories

b) **164** 1-102.01 **Cams L35/45 without Ramp and Stop**

DST Quarter-Turn Pr30 L18

[1-082DST]

DST · R L · IP 65 · RoHS WEEE



TRENTA, for cutout 30x30, length 18, for inserts, tool-less installation

Advantages

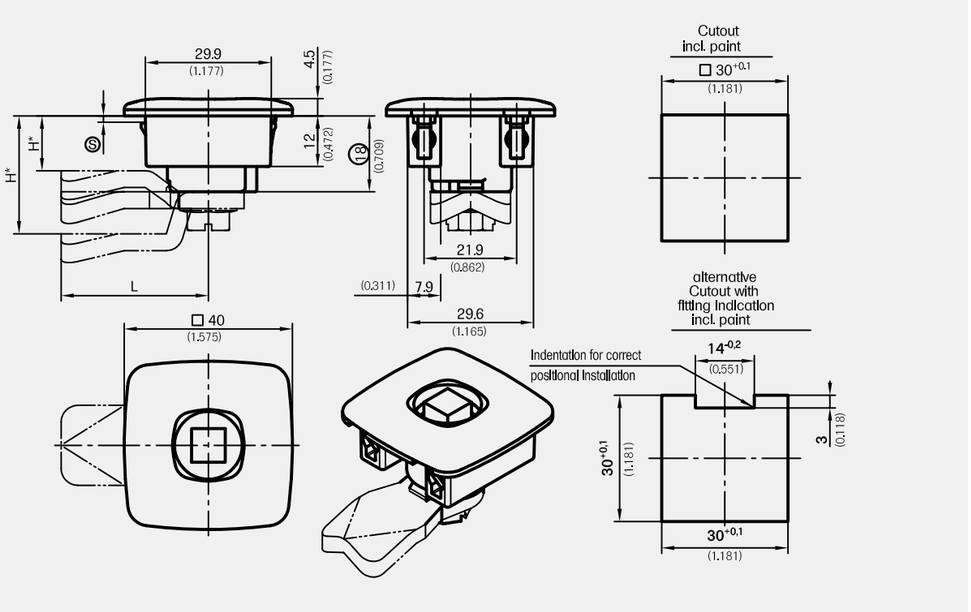
- Elegant, flush Quarter-Turn for Snap-in installation into cutout 30x30mm.
- RH and LH application.
- The Quarter-Turn can be snapped-in as a completely pre-assembled unit.
- To guarantee a correct positional installation, the cutouts can have indentations.
- IP65 according to DIN EN 60529 by sealing kit.
- Grounding by grounding clip.

Materials

- **Housing:** zinc die, black
- **Snap wedges:** sintered steel
- **Clip:** spring steel

Remarks

Attention: H-dimension not less than ≥ 14mm (0.551)!



Quarter-Turn TRENTA

Part Number	Clamping range	quantity SNAP wedges	Installation type
406-9001.00-00015	0.8 - 1.5 mm	4, for H.D. applications	tool-less
406-9001.00-00020	1.3 - 2.0 mm	4, for H.D. applications	tool-less
406-9001.00-00022	1.5 - 2.2 mm	4, for H.D. applications	tool-less
406-9002.00-00015	0.8 - 1.5 mm	2, for light applications	tool-less
406-9002.00-00020	1.3 - 2.0 mm	2, for light applications	tool-less
406-9002.00-00022	1.5 - 2.2 mm	2, for light applications	tool-less

Accessories

156 1-101 **Inserts Pr20.1**
160 1-102 **Cams L35/45 steel**
167 1-262 **Cam variable**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

200-1105.93-00000 **Grounding clip**
209-9004.00-00000 **Sealing kit IP65 for Qurater-Turn Pr30**

Quarter-Turn Polyamide PrA

[1-099]



Advantages

- Polyamide Quarter-Turn for clip-in installation into cutout A.
- Tool-less installation.
- RH / LH application by rotatable bottom part.
- The Quarter-Turn can be clip-in as a completely pre-assembled unit.
- Also a 3-point cam can be pre-assembled.
- IP65 according to DIN EN 60529 by sealing kit.
- Grounding by grounding clip.
- By using additional extensions PS 3-136 this Quarter-Turn can also be applied for cut-outs B and C.

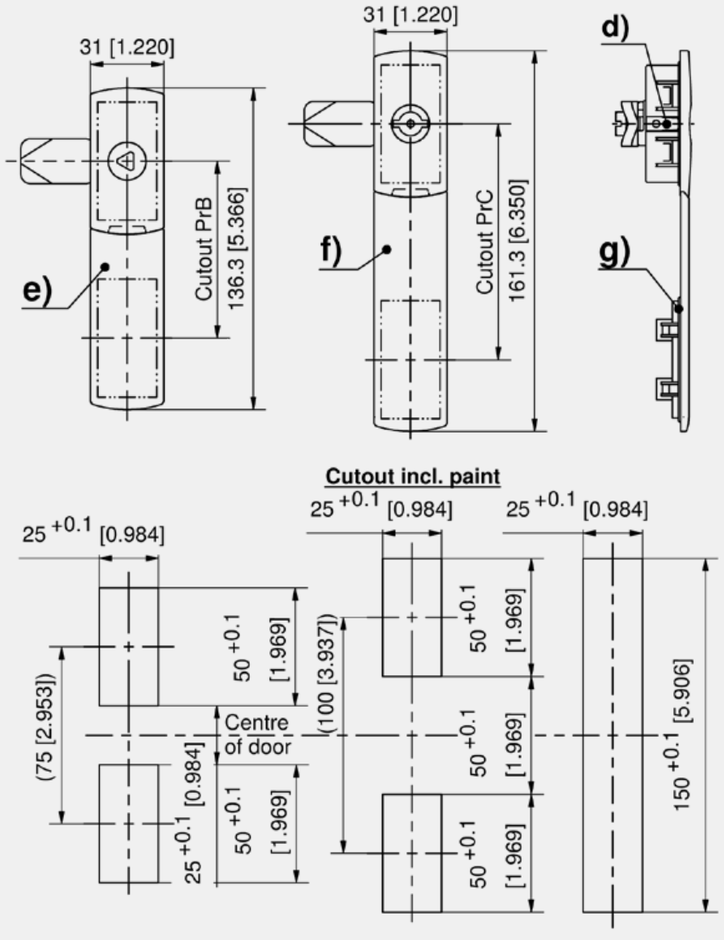
Materials

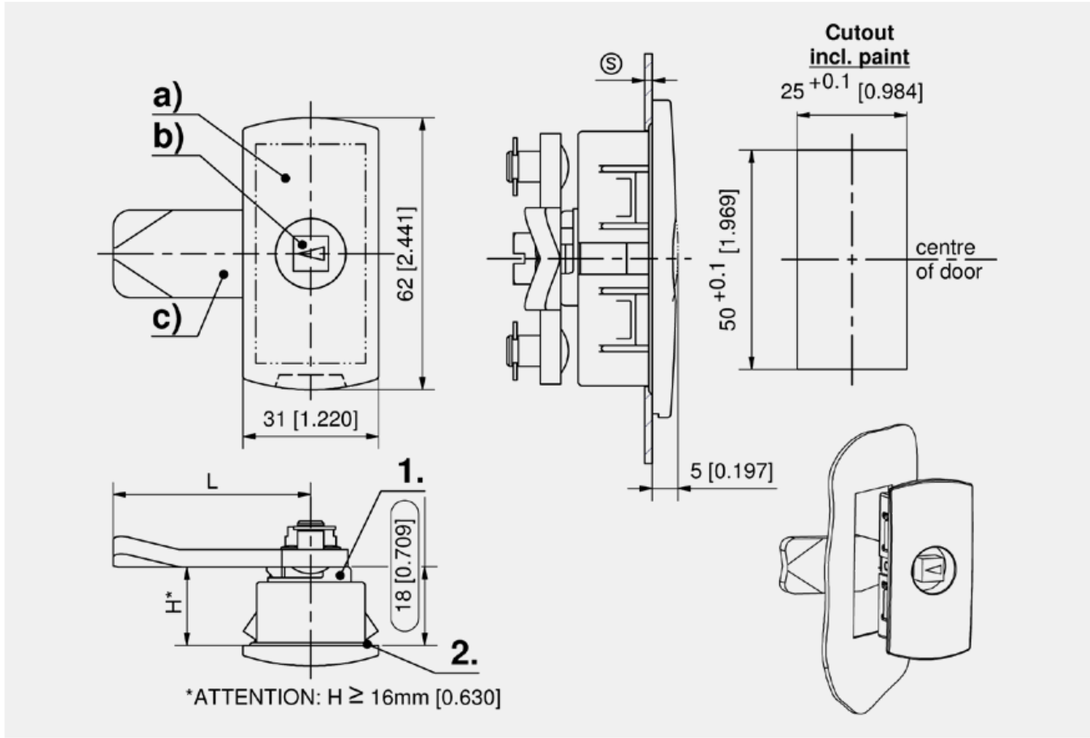
- **Housing:** PA, black
- **Bottom:** zinc die, zinc plated
- **Grounding clip:** stainless steel
- **O-ring:** NBR, black

Remarks

Attention: H-dimension of the cam not less than ≥16mm (0.630)

1. = Rotatable bottom





Housing with rotatable bottom and O-ring

	Part Number	Housing length	Clamping range	Installation type	Packaging unit
a)	408-9305.00-00010	18 mm	0.8 - 1.3 mm	tool-less	50 pcs.
a)	408-9305.00-00015	18 mm	1.3 - 1.8 mm	tool-less	50 pcs.
a)	408-9305.00-00020	18 mm	1.8 - 2.3 mm	tool-less	50 pcs.

Accessories

b)	156	1-101 **Inserts Pr20.1**
e)-g)	317	3-136 **Cutout-Cover PrA / PrB / PrC**
c)	160	1-102 **Cams L35/45 steel**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**
200-0020.00-00000 **Assembling cam, LH door**
200-0021.00-00000 **Assembling cam, RH door**

Function extension

d) 200-1104.93-00000 **Grounding clip**
209-9005.00-00000 **Sealing kit IP65 for Quarter-Turns PrA 1-099**

DIRAK

DST Quarter-Turn PrA L18

[1-100DST]

DST

A

IP 54

IP 65

RoHS WEEE



Advantages

- Quarter-Turn for snap-in installation into cutout PrA.
- Tool-less installation.
- Vibration-proof installation.
- Blind installation.
- Rectangular cutout guarantees a perfect alignment.
- Also a 3-point cam can be pre-assembled.
- RH / LH application (bottom with 90° stop can be rotated).
- IP65 according to DIN EN 60529 (o-ring for housing is included). O-ring 200-1001.00-00000, for insert, please order separately .
- Grounding by grounding clip.

Materials

- **Housing:** PA, black
- **Bottom:** zinc die, zinc plated
- **Snap wedges:** sintered steel, zinc plated
- **Grounding clip:** stainless steel
- **O-Rings:** NBR, black

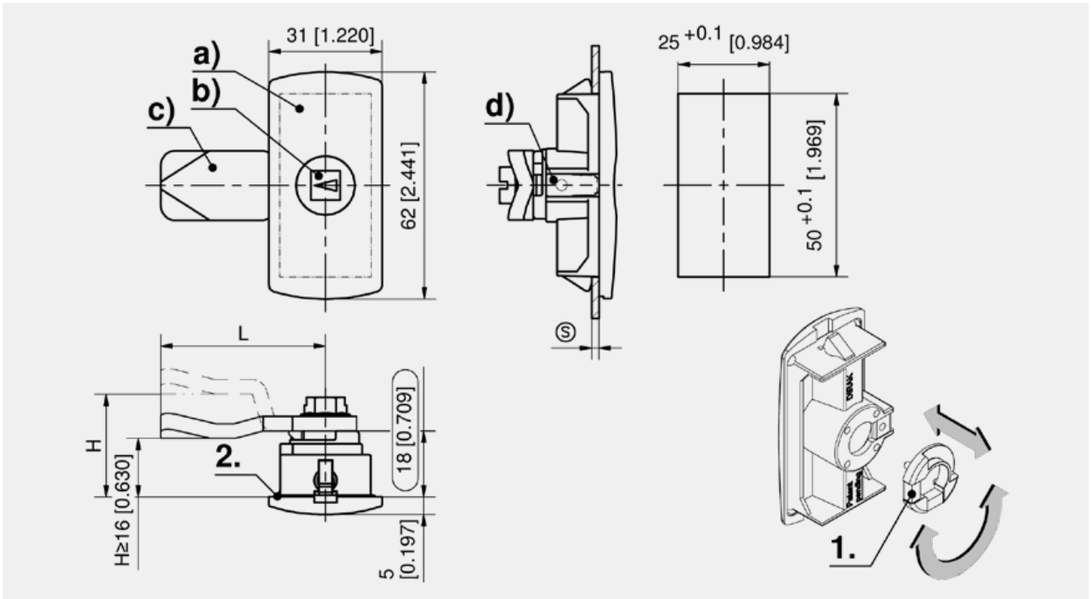
Remarks

Attention: H-dimension of the cam not less than ≥ 16mm (5/8).

Through escutcheons, this Quarter-Turn can also be used for cutouts PrB and PrC (see product system 3-136SL).

1. = rotatable bottom for RH/LH

2. = o-ring



Housing PrA

	Part Number	Housing length	Clamping range	Grounding type	Material	Surface	Installation type
a)	408-9301.00-00015	18 mm	0.8 - 1.5 mm	Grounding clip	PA	black	tool-less
a)	408-9301.00-00020	18 mm	1.3 - 2.0 mm	Grounding clip	PA	black	tool-less
a)	408-9301.00-00025	18 mm	1.8 - 2.5 mm	Grounding clip	PA	black	tool-less
a)	408-9301.00-00030	18 mm	2.3 - 3.0 mm	Grounding clip	PA	black	tool-less
a)	408-9301.00-00035	18 mm	2.8 - 3.5 mm	Grounding clip	PA	black	tool-less
a)	408-9302.00-00015	18 mm	0.8 - 1.5 mm		PA	black	tool-less
a)	408-9302.00-00020	18 mm	1.3 - 2.0 mm		PA	black	tool-less
a)	408-9302.00-00025	18 mm	1.8 - 2.5 mm		PA	black	tool-less
a)	408-9302.00-00030	18 mm	2.3 - 3.0 mm		PA	black	tool-less
a)	408-9302.00-00035	18 mm	2.8 - 3.5 mm		PA	black	tool-less

Accessories

b)	156	1-101 **Inserts Pr20.1**
c)	160	1-102 **Cams L35/45 steel**
c)	167	1-262 **Cam variable**
c1)	182	2-151 **2-, 3- and 4-Point Cam Adapter**

Function extension

	317	3-136 **Cutout-Cover PrA / PrB / PrC**
d)		200-1001.00-00000 **O-ring 12 x 2.0mm**
f)		200-1104.93-00000 **Grounding clip**

DIRAK

Quarter-Turn PrA L16

[2-040]



Advantages

- Quarter-Turn for cutout type A 50 x 25.
- RH/ LH application.
- The Quarter-Turn consists of three component groups a), b) and c), their versions can be combined in any way.
- Pre-assembled deliverable on request.
- The Quarter-Turn can be installed pre-assembled.
- Pre-assembly of 3-point cam also possible.
- Height 16mm.
- Min. A dimension = 8mm.
- IP65 according to DIN EN 60529 by sealing kit 209-9007.

Materials

a)

- **Bearing plate:** zinc die, untreated

b), b1) and b2)

- **Escutcheons:** PA, black
- **Self tapping screw:** steel, zinc plated

e) and f)

- **O-rings:** Perbunan

Remarks

Escutcheon b2) only in use with insert double bit.

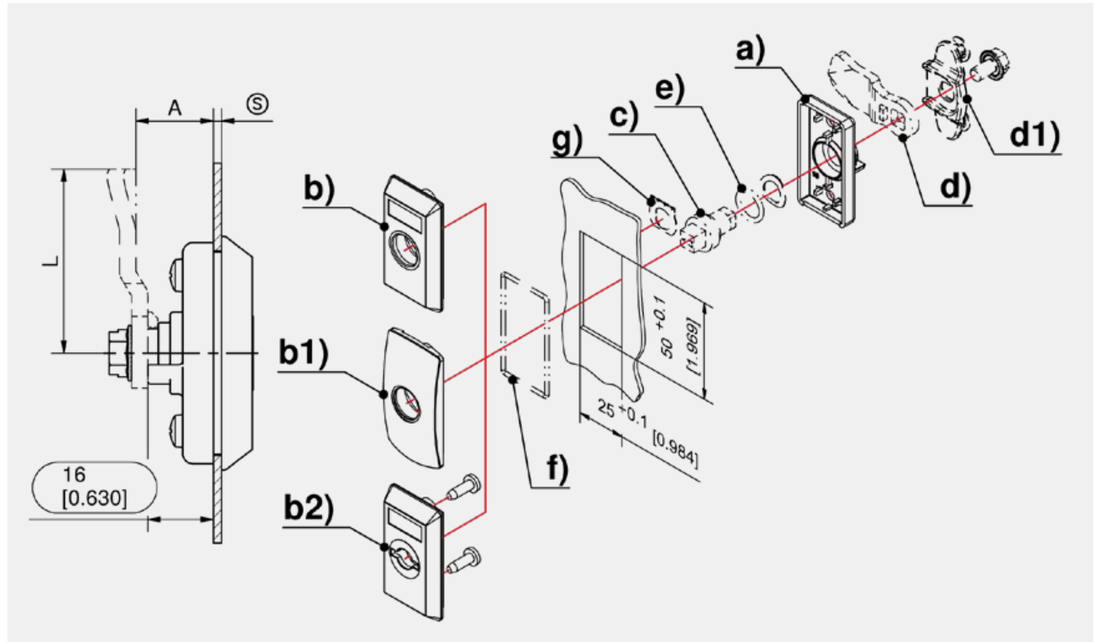
For door-thicknesses greater than 3.5mm longer screws for the installation are required.

A

R L

IP 65

RoHS WEEE



Bearing plate and Escutcheons

	Part Number	Name	Material	Surface	Door-thickness	Installation type
a)	207-2707.00-00016	Bearing plate 16mm	zinc die	untreated		screw-on
b)	208-9306.00-00000	Escutcheon PrA	PA	black	1.3 - 3.5 mm	screw-on
b1)	208-9307.00-00000	Escutcheon PrA SOFTLINE	PA	black	1.3 - 3.5 mm	screw-on
b2)	208-9308.00-00000	Escutcheon for double bit PrA	PA	black	1.3 - 3.5 mm	screw-on

Accessories

c)	156	1-101 **Inserts Pr20.1**
d)	160	1-102 **Cams L35/45 steel**
d1)	184	2-151.04 **3-Point Cam Adapter**

Function extension

g)	298	3-011 **Grounding clip**
		209-9007.00-00000 **Sealing kit IP65 for Quarter-Turn PrA**

Dish Handle PrA

[7-072]



stainless steel AISI 316Ti, for cutout A

Advantages

- Dish handle for 2- or 3-point cam.
- IP65 according to DIN EN 60529.
- Properties of material AISI 316 Ti: The titanium increases even further the corrosion resistance particularly the intercristalline corrosion at the grain boundaries.
- Adapter bracket and flat external seal for flush area mounting of the dish handle.

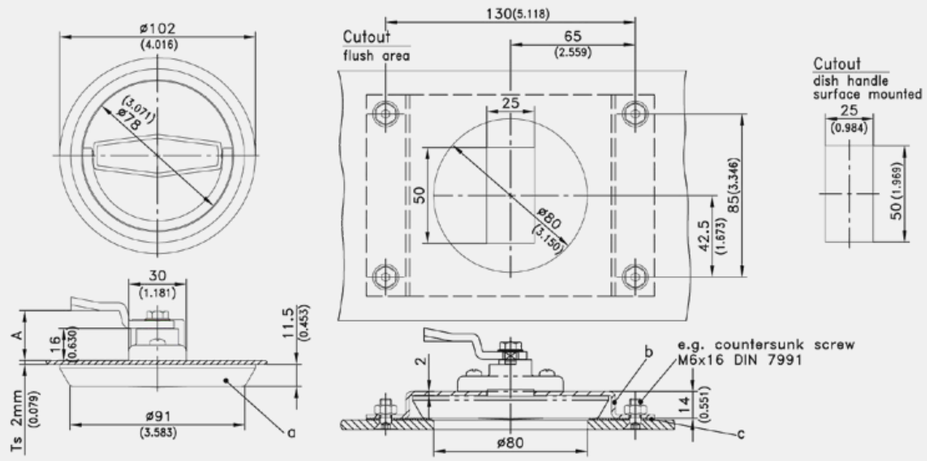
Materials

- **Dish handle and adapter bracket:** stainless steel AISI 316Ti, cast
- **Flat external seal:** Inducon

Remarks

For flush area mounting please order additionally:

Adapter bracket and flat external seal



Dish handle

	Part Number	Material	Installation type
a)	208-9638.00-00000	stainless steel AISI 316Ti	screw-on

Accessories for dish handle

	Part Number	Name	Material	Fastening type
b)	207-3605.90-00000	Adapter plate	Stainless Steel	screw-on
b)	200-0905.00-00000	Flat external seal	inducon	

Accessories
162 7-105 **Cams L35/45 stainless steel**

Quarter-Turn - Firefighting

[7-331]



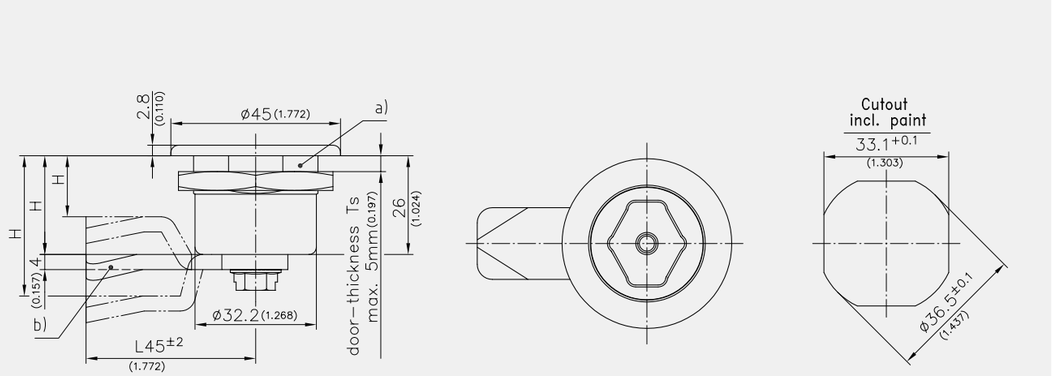
stainless steel AISI 316Ti

Advantages

- Quarter-Turn for firefighting.
- Both the triangular adapter on the fireman's axe to DIN 14924 and the hydrant spanner A or B to DIN 3223 can be used as a key.
- **Properties of material AISI 316 Ti:** the titanium increases even further the corrosion resistance particularly the intercristalline corrosion at the grain boundaries.
- **Price and delivery time on request.**

Materials

- **Housing, insert, serrated screw and nut:** stainless steel AISI 316Ti
- **Spring washer:** stainless steel AISI 316L
- **Cam:** stainless steel AISI 304



Quarter-Turns

	Part Number	Housing length	Door-thickness	Material	Installation type
a)	290-9401.00-00000	26 mm	max. 5 mm	Stainless Steel	screw-on

Accessories
b) 162 200-0506.00-00000 **Cam**
b) 162 200-0508.00-00000 **Cam**
b) 162 200-0510.00-00000 **Cam**
b) 162 200-0514.00-00000 **Cam**
b) 162 200-0516.00-00000 **Cam**
b) 162 200-0518.00-00000 **Cam**
b) 162 200-0520.00-00000 **Cam**

Accessories
b) 162 200-0522.00-00000 **Cam**
b) 162 200-0526.00-00000 **Cam**
b) 162 200-0524.00-00000 **Cam**
b) 162 200-0528.00-00000 **Cam**
b) 162 200-0532.00-00000 **Cam**
b) 162 200-0550.00-00000 **Cam**

Assembly options
c) 200-0002.00-00000 **Assembling cam with o-ring**

Hygiene Quarter-Turn with Insert Square SW13 [7-081.01HD]



Specially developed Hygiene stainless steel Quarter-Turn (HD, Hygienic Design) with insert square SW13, for applications in the food sector and hygienic areas

Advantages

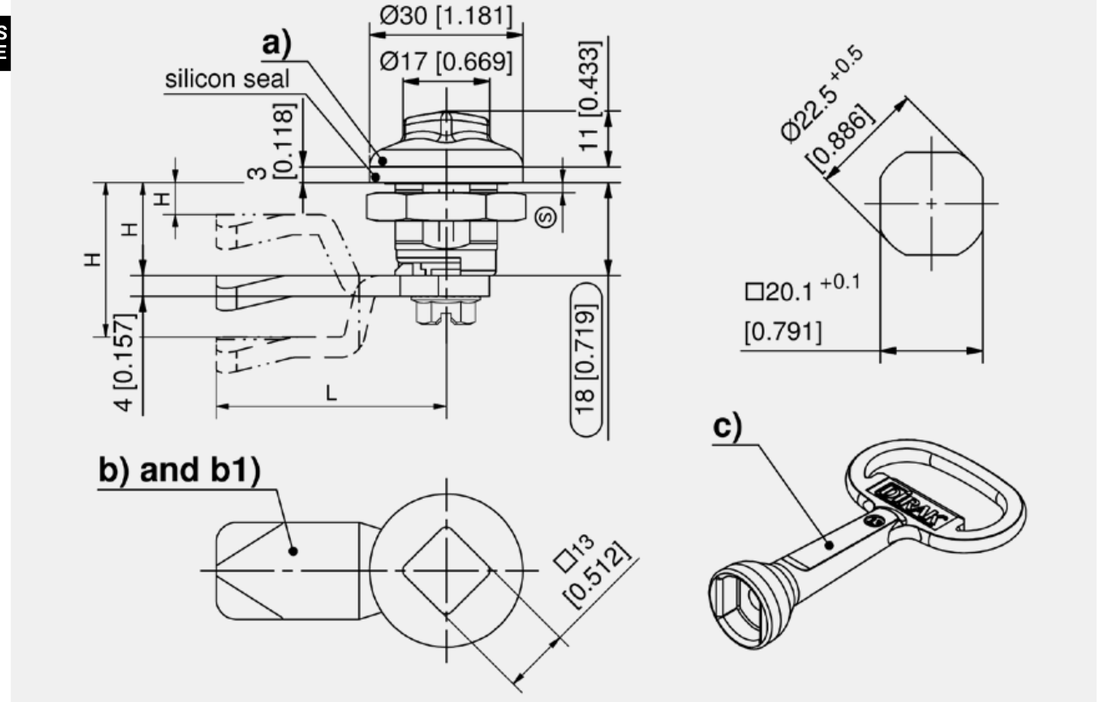
- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements Machine Ordinance: DIN EN 1672-2:2009
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.
- Cam can be delivered pre-assembled upon request.
- A pre-assembled Quarter-Turn can be installed in the cutout.

Materials

- **Housing and insert:** stainless steel AISI 316 L
- **Grounding nut and serrated screws:** stainless steel
- **Seal:** silicone, blue, FDA conform (Food and Drug Administration)

Remarks

(S) = max. 8 mm.



Hygiene Quarter-Turn

	Part Number	Housing length	Insert	Grounding type	Material	Installation type
a)	100-9503.00-00000	18 mm	SW13	Grounding nut	Stainless Steel	screw-on

Accessories

b) 162 7-105 **Cams L35/45 stainless steel**
c) 759 204-0140.39-05010 **Key SW13**

Quarter-Turn with Insert SW13 Pr20.1 L18 [7-081.01]



stainless steel AISI 316L, Quarter-Turn with insert SW13 for hygienic applications

Advantages

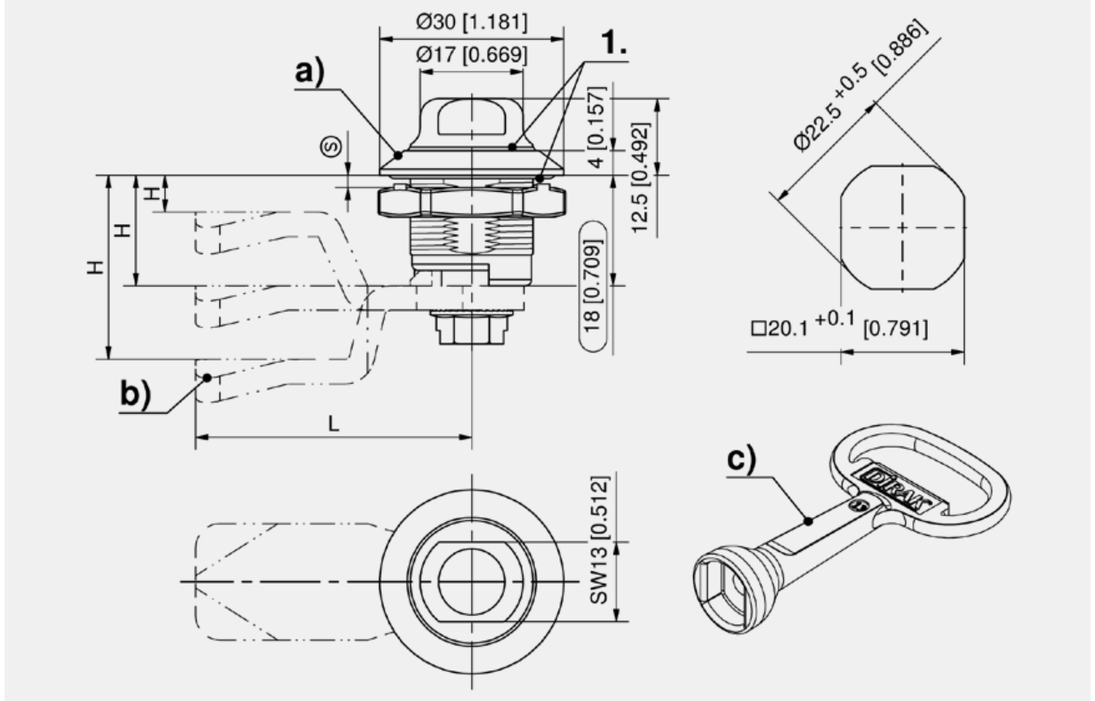
- Meets hygiene requirements acc. to DIN EN ISO 14159 and DIN EN 1672-2.
- Easy to clean.
- IP67 / 69K according to DIN EN 60529 / DIN 40050.
- O-rings (FDA conform) prevent dirt deposits and penetration of liquids.
- RH / LH application.
- (S) = max. 8 mm.

Materials

- **Housing, grounding nut and insert:** stainless steel AISI 316L
- **Cam and serrated screw:** stainless steel AISI 304
- **O-rings**: silicone, FDA conform, red or blue

Remarks

1. = O-rings



Quarter-Turns

	Part Number	Housing length	Door-thickness	Insert	Version	Grounding type	Material	Installation type
a)	100-9508.00-00000	18 mm	8 mm	SW13	red o-ring	Grounding nut	Stainless Steel	screw-on
a)	100-9508.00-00001	18 mm	8 mm	SW13	blue o-ring	Grounding nut	Stainless Steel	screw-on

Accessories

b) 162 7-105 **Cams L35/45 stainless steel**
c) 759 204-0140.39-05010 **Key SW13**

Assembly options

200-0002.00-00000 **Assembling cam with o-ring**

Hygiene Quarter-Turn with T-Handle [7-081.02HD]



Specially developed Hygiene stainless steel Quarter-Turn with T-handle (HD, Hygienic design), for applications in the food sector and hygienic areas

Advantages

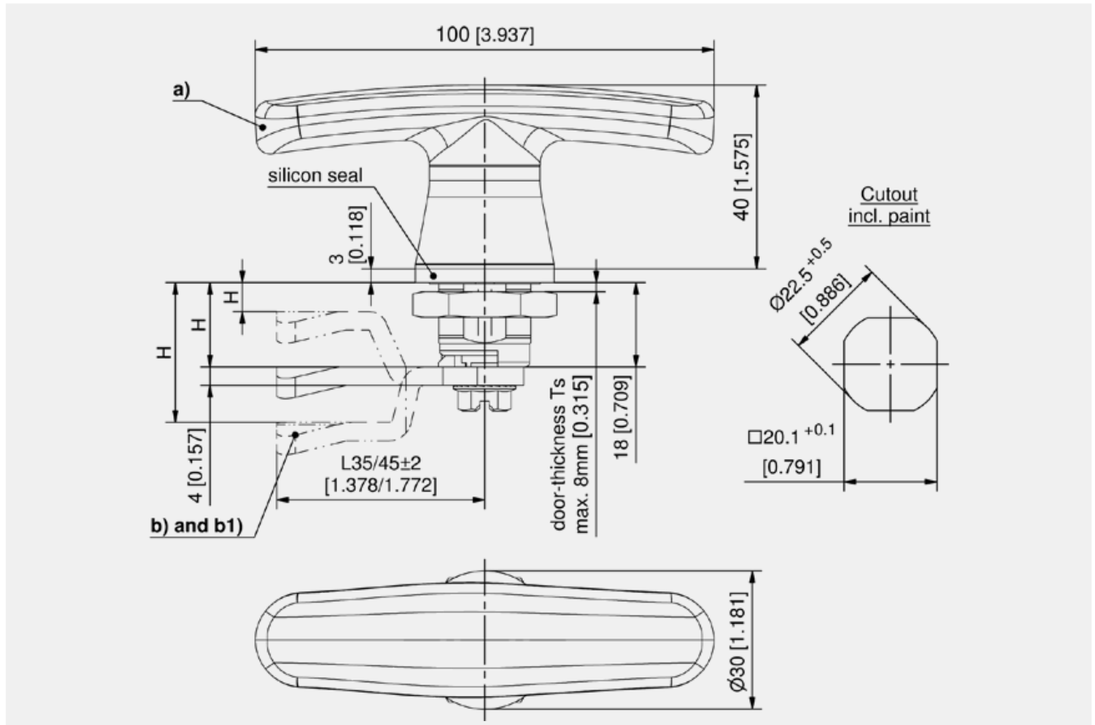
- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.
- Cam can be delivered pre-assembled upon request.
- A preassembled Quarter-Turn can be installed in the cutout.
- (S) = max. 8mm.

Materials

- **Housing and Handle:** stainless steel AISI 316 L
- **Grounding nut and Serrated Screws:** stainless steel
- **Seal:** Silicon, blue, FDA conform (Food and Drug Administration)

Remarks

(S) = max. 8 mm



Hygiene Quarter-Turn with T-Handle

	Part Number	Grounding type	Material
a)	100-9313.00-00000	Grounding nut	Stainless Steel

	Accessories
b1)	165 7-105.01 **Cams L35/45 without Ramp and Stop**
b)	162 7-105 **Cams L35/45 stainless steel**

Quarter-Turn with T-Handle and Cylinder Barrel [7-081.02]



stainless steel AISI 316L, for cutout 20.1, length 18

Advantages

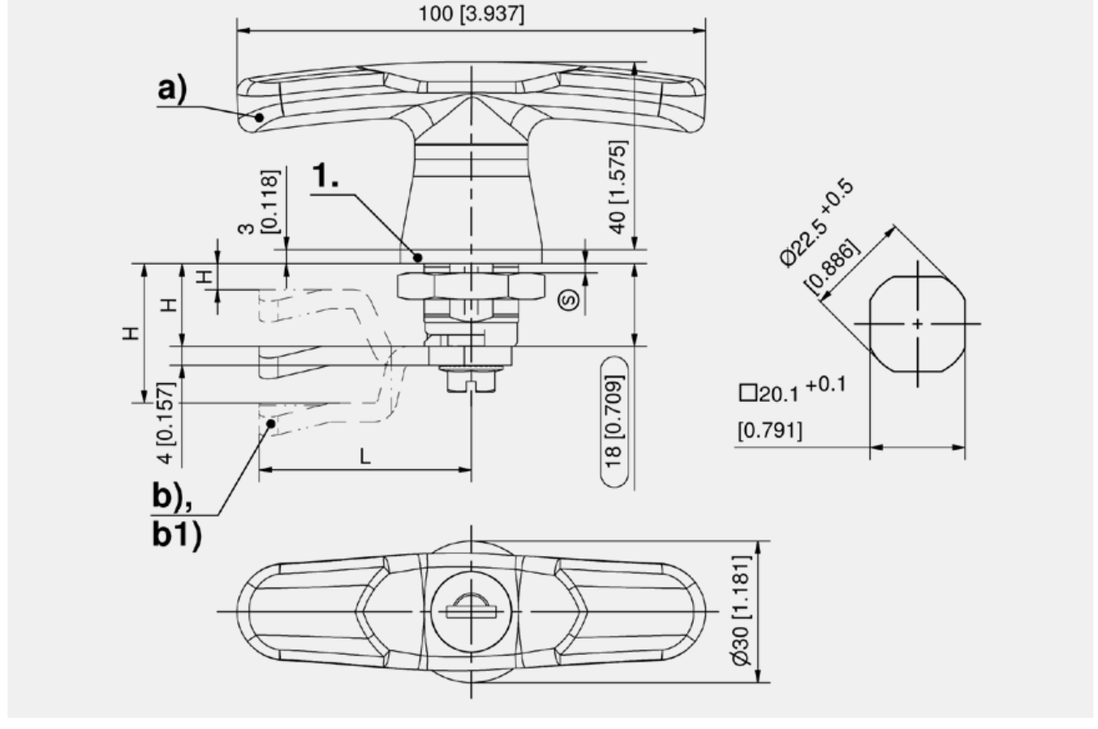
- Suitable for the food sector and hygienic areas.
- Meets hygiene requirements acc. to DIN EN ISO 14159 and DIN EN 1672-2.
- Polished surface.
- RH or LH application.
- Lockable with cylinder barrel.
- Seal FDA conform.
- IP65/67 DIN 60529 .
- Grounding by grounding nut.
- Cam can be delivered pre-assembled upon request.
- The pre-assembled Quarter-Turn can be installed in the cutout.

Materials

- **Housing and Handle:** stainless steel AISI 316 L
- **Grounding nut and Serrated Screw:** stainless steel
- **Seal:** Silicon, blue

Remarks

1. = Seal



Quarter-Turns

	Part Number	Latching type	Grounding type	Material
a)	100-9313.00-01333	keyed alike DIRAK 1333	Grounding nut	Stainless Steel
a)	100-9313.00-99999	keyed different	Grounding nut	Stainless Steel

	Accessories
b1)	165 7-105.01 **Cams L35/45 without Ramp and Stop**
b)	162 7-105 **Cams L35/45 stainless steel**

Hygiene Quarter-Turn with L-Handle [7-081.03HD]



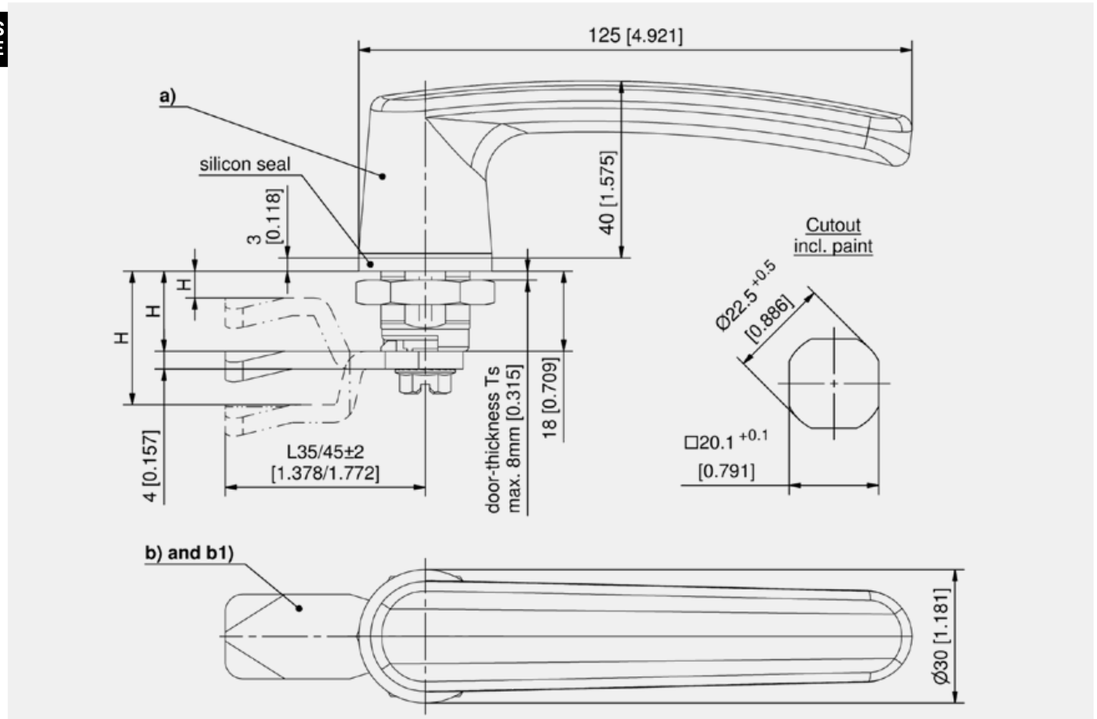
Specially developed Hygiene stainless steel Quarter-Turn with L-Handle (HD, Hygienic design), for applications in the food sector and hygienic areas

Advantages

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.
- Cam can be delivered pre-assembled upon request.
- A pre-assembled Quarter-Turn can be installed in the cutout.
- (S) = max. 8 mm.

Materials

- **Housing and Handle:** stainless steel AISI 316 L
- **Grounding nut and serrated screws:** stainless steel
- **Seal:** Silicon, blue, FDA conform (Food and Drug Administration)



Hygiene Quarter-Turn with L-Handle

	Part Number	Grounding type	Material
a)	100-9416.00-00000	Grounding nut	Stainless Steel

	Accessories
b1)	165 7-105.01 **Cams L35/45 without Ramp and Stop**
b)	162 7-105 **Cams L35/45 stainless steel**

Quarter-Turn with L-Handle and Cylinder Barrel [7-081.03]



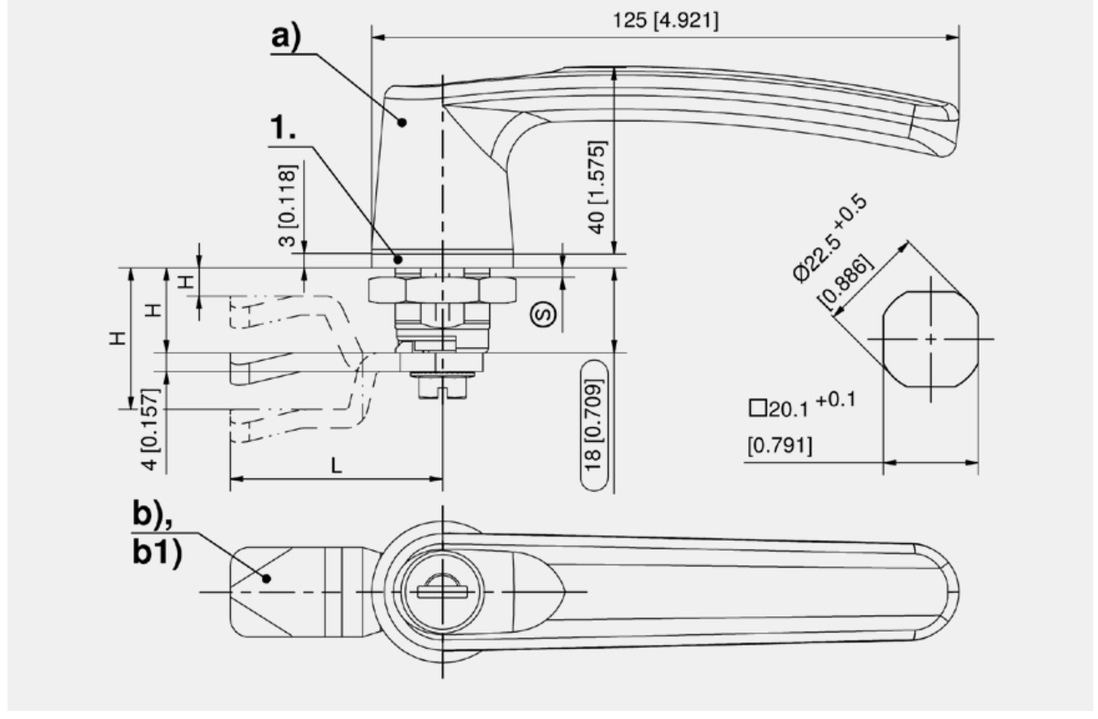
stainless steel 316L, for cutout 20.1, length 18

Advantages

- Suitable for the food sector and hygienic areas.
- Meets Hygiene requirements acc. to DIN EN ISO 14159 and DIN EN 1672-2.
- Polished surface.
- RH or LH application.
- Seal FDA conform.
- IP 65/67 DIN EN 60529.
- Grounding by grounding nut.
- Cam can be delivered pre-assembled upon request.
- The pre-assembled Quarter-Turn can be installed in the cutout.

Materials

- **Housing and Handle:** stainless steel AISI 316 L
- **Grounding nut and serrated screws:** stainless steel
- **Seal:** Silicon, blue, FDA conform (Food and Drug Administration)



Quarter-Turn with L-Handle

	Part Number	Latching type	Grounding type	Material
a)	100-9416.00-01333	keyed alike DIRAK 1333	Grounding nut	Stainless Steel
a)	100-9416.00-99999	keyed different	Grounding nut	Stainless Steel

	Accessories
b1)	165 7-105.01 **Cams L35/45 without Ramp and Stop**
b)	162 7-105 **Cams L35/45 stainless steel**

Hygiene Compression Latch

[7-081.04HD]



Specially developed stainless steel Hygiene Compression Latch (HD, Hygienic Design) with insert square SW13, for applications in the food sector and hygienic areas

Advantages

- Compression 4 mm.
- Vibration-proof according to DIN EN 61373.
- The complete Quarter-Turn is certified and tested according to: GS-NV 2:2013/06
- Principles for the testing of food processing machines
- GS-NV 6:2013/06 Principles for the testing of hygiene requirements.
- Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

Materials

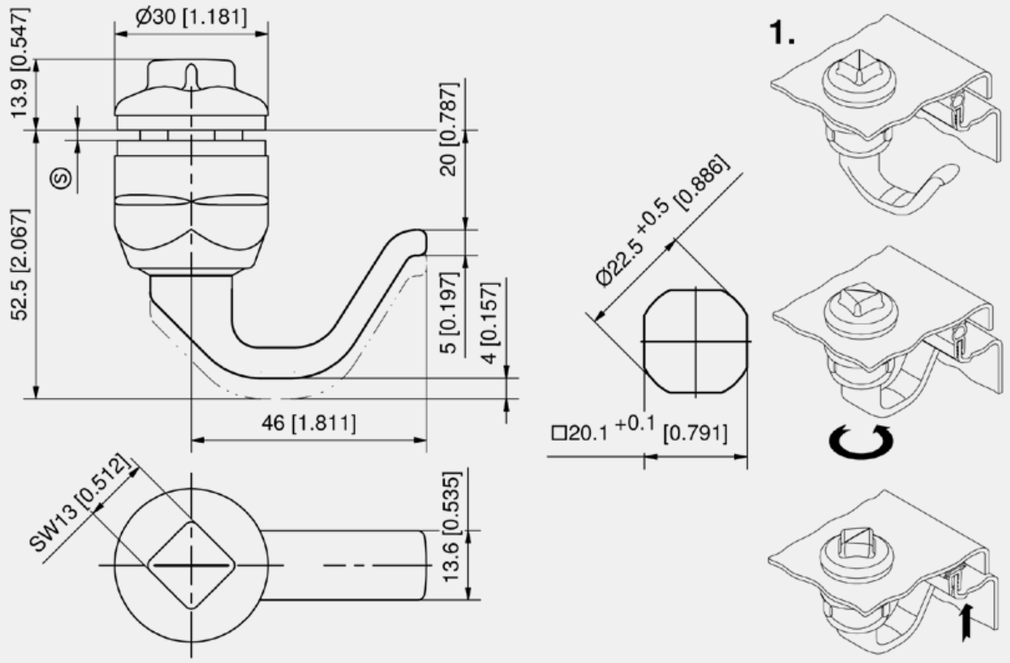
- **Housing, insert, nut, cam:** stainless steel AISI 316L
- **Seal:** silicone, blue, FDA conform (Food and Drug Administration)

Remarks

The compression latch is delivered with assembled cam.

(S) = max. 4 mm.

1.= Operation



Hygiene compression latch

Part Number	Door-thickness	Insert	Version	Compression	Material	Installation type
100-9504.00-00000	max. 4 mm	SW13	RH	4	Stainless Steel	screw-on
100-9505.00-00000	max. 4 mm	SW13	LH	4	Stainless Steel	screw-on

+	Accessories
759	204-0140.39-05010 **Key SW13**

Hygiene Quarter-Turn with L-Handle

See page 148

Inserts and Finger Pull for Quarter-Turn Pr14.1

[1-059]

14

RoHS WEEE



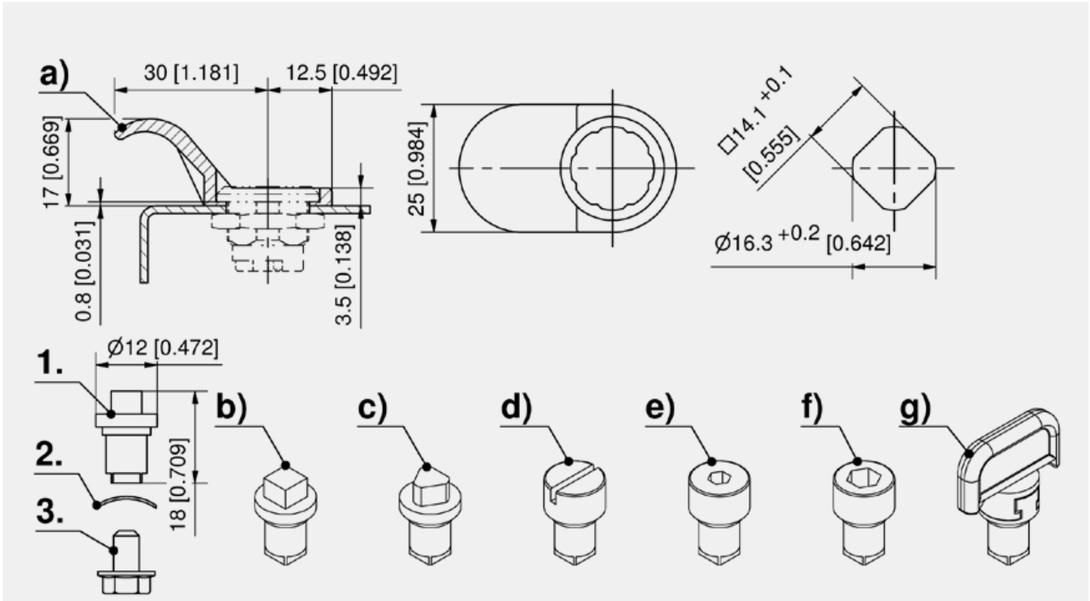
Advantages

- Inserts for Quarter-Turn Pr14.1.
- Finger pull for Quarter-Turn Pr14.1.
- For head Ø20mm.

Remarks

1. insert
2. spring washer
3. self-locking screw

By using a finger pull the H-dimension changes by 0.8mm.



Finger pull and inserts

	Part Number	Name	Material	Surface
a)	220-1301.00-00000	Finger pull	PA	black
b)	220-9102.00-00000	Insert square 6mm	zinc die	chrome plated
b)	220-9105.00-00000	Insert square 6mm	zinc die	black
c)	220-9101.00-00000	Triangular 6.5mm	zinc die	chrome plated
c)	220-9104.00-00000	Triangular 6.5mm	zinc die	black
d)	220-9103.00-00000	Slotted 1.5mm	zinc die	chrome plated
d)	220-9106.00-00000	Slotted 1.5mm	zinc die	black
e)	220-9118.00-00000	Socket hex.SW 4mm (5/32")	zinc die	chrome plated
e)	220-9119.00-00000	Socket hex.SW 4mm (5/32")	zinc die	black
f)	220-9107.00-00000	Socket hex. SW 6mm	zinc die	chrome plated
f)	220-9127.00-00000	Socket hex. SW 6mm	PA	black
g)	220-9117.00-00000	Wing Knob Insert	PA	black

Cams for Quarter-Turn Pr14.1

[1-058]

14

RoHS WEEE



Advantages

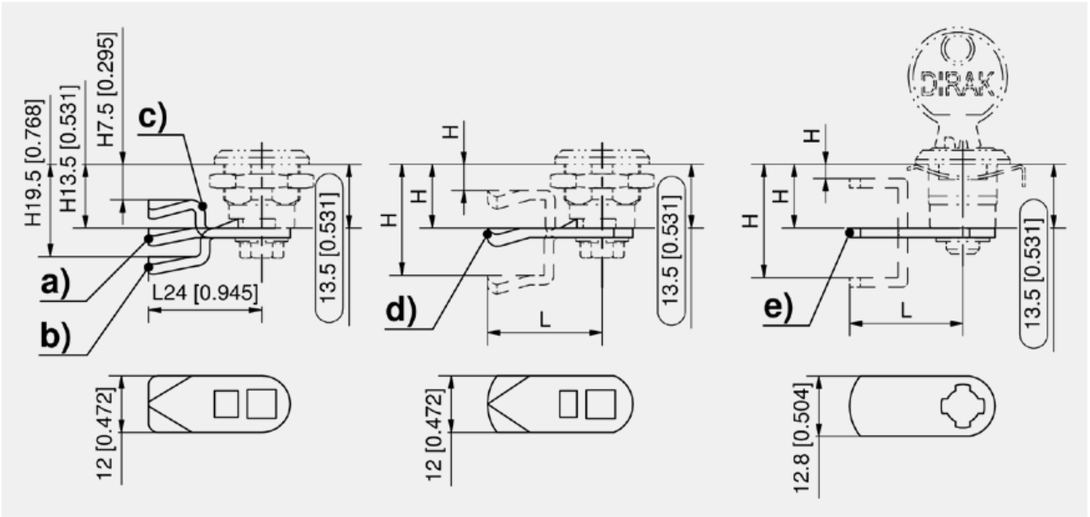
- Cams, L- and H-dimension fixed.
- Special cams, L- and H-dimension variable.
- Special cams with star connection, L- and H-dimension variable.
- **Please note:** cams with star connection only for cylinder Quarter-Turns.

Materials

- **Cams:** steel, zinc plated

Remarks

1. ramp 2mm
2. stop



Cam, L-and H-dimension variable

	Part Number	Stop	H-dimension	Length
a)	220-0501.00-00000	Yes	13.5 mm	24 mm
b)	220-0502.00-00000	Yes	19.5 mm	24 mm
c)	220-0503.00-00000	Yes	7.5 mm	24 mm
d)	220-10LL.00-Hxxmm	Yes	variable	variable
e)	220-20LL.00-Hxxmm	No	variable	variable

Inserts Pr20.1

[1-101]



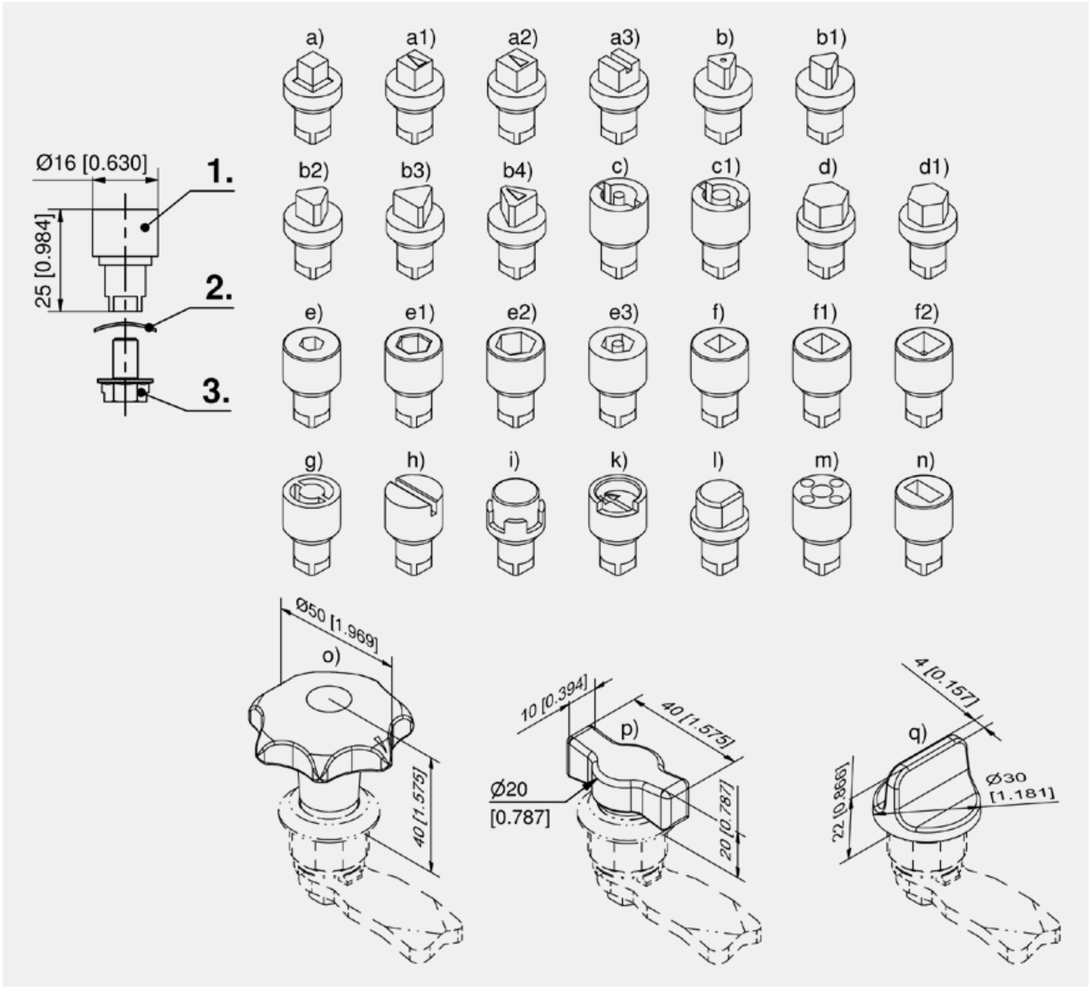
for Quarter-Turn cutout 20.1

Advantages

- Keys for insert see product-system 6-100.
- Including spring washer and self locking screw M6.

Remarks

Please note: q): only for Quarter-Turns with head height **max.** 4mm.



Inserts

	Part Number	Name	Material	Surface
a)	200-9101.00-00000	Insert square 6mm	zinc die	chrome plated
a)	200-9127.00-00000	Insert square 6mm	zinc die	black
a1)	200-9102.00-00000	Insert square 7mm	zinc die	chrome plated
a1)	200-9116.00-00000	Insert square 7mm	zinc die	black
a2)	200-9103.00-00000	Insert square 8mm	zinc die	chrome plated
a2)	200-9128.00-00000	Insert square 8mm	zinc die	black
a3)	200-9111.00-00000	Insert square 8mm slotted	zinc die	chrome plated
b)	200-9106.00-00000	Insert triangular 6,5mm CNOMO Type 1	zinc die	chrome plated
b1)	200-9104.00-00000	Insert triangular 7mm	zinc die	chrome plated
b1)	200-9129.00-00000	Insert triangular 7mm	zinc die	black
b2)	200-9105.00-00000	Insert triangular 8mm	zinc die	chrome plated
b2)	200-9130.00-00000	Insert triangular 8mm	zinc die	black
b3)	200-9147.00-00000	Insert triangular 9mm EDF	zinc die	chrome plated
b3)	200-9148.00-00000	Insert triangular 9mm EDF	zinc die	black
b4)	100-9166.00-00000	Insert triangular 9mm	zinc die	chrome plated
b4)	100-9167.00-00000	Insert triangular 9mm	zinc die	black
c)	200-9107.00-00000	Insert double bit 3mm pin	zinc die	chrome plated
c)	200-9131.00-00000	Insert double bit 3mm pin	zinc die	black
c)	200-9117.00-00000	Insert double bit 3mm pin	PA / zinc die core	black
c1)	200-9108.00-00000	Insert double bit 5mm pin	zinc die	chrome plated
c1)	200-9132.00-00000	Insert double bit 5mm pin	zinc die	black
c1)	200-9118.00-00000	Insert double bit 5mm pin	PA / zinc die core	black
d)	200-9171.00-00000	Insert hex. SW 7/16"	zinc die	chrome plated
d)	100-9127.00-00000	Insert hex. SW 7/16"	zinc die	black
d1)	200-9185.00-00000	Insert hex. SW 10mm	zinc die	chrome plated
e)	200-9142.00-00000	Socket hex. SW 6mm	zinc die	chrome plated
e1)	200-9196.00-00000	Insert socket hex. SW 8mm	zinc die	chrome plated
e1)	200-9197.00-00000	Insert socket hex. SW 8mm	zinc die	black
e2)	200-9112.00-00000	Insert socket hex. SW 10mm	zinc die	chrome plated
e3)	200-9172.00-00000	Insert socket hex. 5/16" pin 3mm	zinc die	chrome plated
e3)	200-9178.00-00000	Insert socket hex. 5/16" pin 3mm	zinc die	black
f)	200-9166.00-00000	Insert socket square 6mm	zinc die	chrome plated
f1)	200-9167.00-00000	Insert socket square 7mm	zinc die	chrome plated
f2)	200-9168.00-00000	Insert socket square 8mm	zinc die	chrome plated
g)	200-9109.00-00000	Insert Daimler Benz pin	zinc die	chrome plated
g)	200-9133.00-00000	Insert Daimler Benz pin	zinc die	black
h)	200-9113.00-00000	Insert slotted 2x4mm	zinc die	chrome plated
h)	200-9143.00-00000	Insert slotted 2x4mm	zinc die	black
h)	200-9126.00-00000	Insert slotted 2x4mm	PA / zinc die core	black
i)	200-9110.00-00000	Insert crown type	zinc die	chrome plated
k)	200-9164.00-00000	Insert slotted recessed coinproof	zinc die	chrome plated
k)	200-9169.00-00000	Insert slotted recessed coinproof	zinc die	black
l)	200-9154.00-00000	Insert crescent Czech	zinc die	chrome plated
m)	200-9170.00-00000	Insert FIAT	zinc die	chrome plated
n)	200-9141.00-00000	Insert GDF 10mmx 5mm France	zinc die	chrome plated
o)	200-9114.00-00000	Star knob	PA / zinc die core	black
p)	200-9115.00-00000	Wing knob	PA / zinc die core	black
q)	100-9115.00-00000	Wing knob (only for housings Ø28)	zinc die	black

Insert Stainless Steel Pr20.1

[7-082]



Advantages

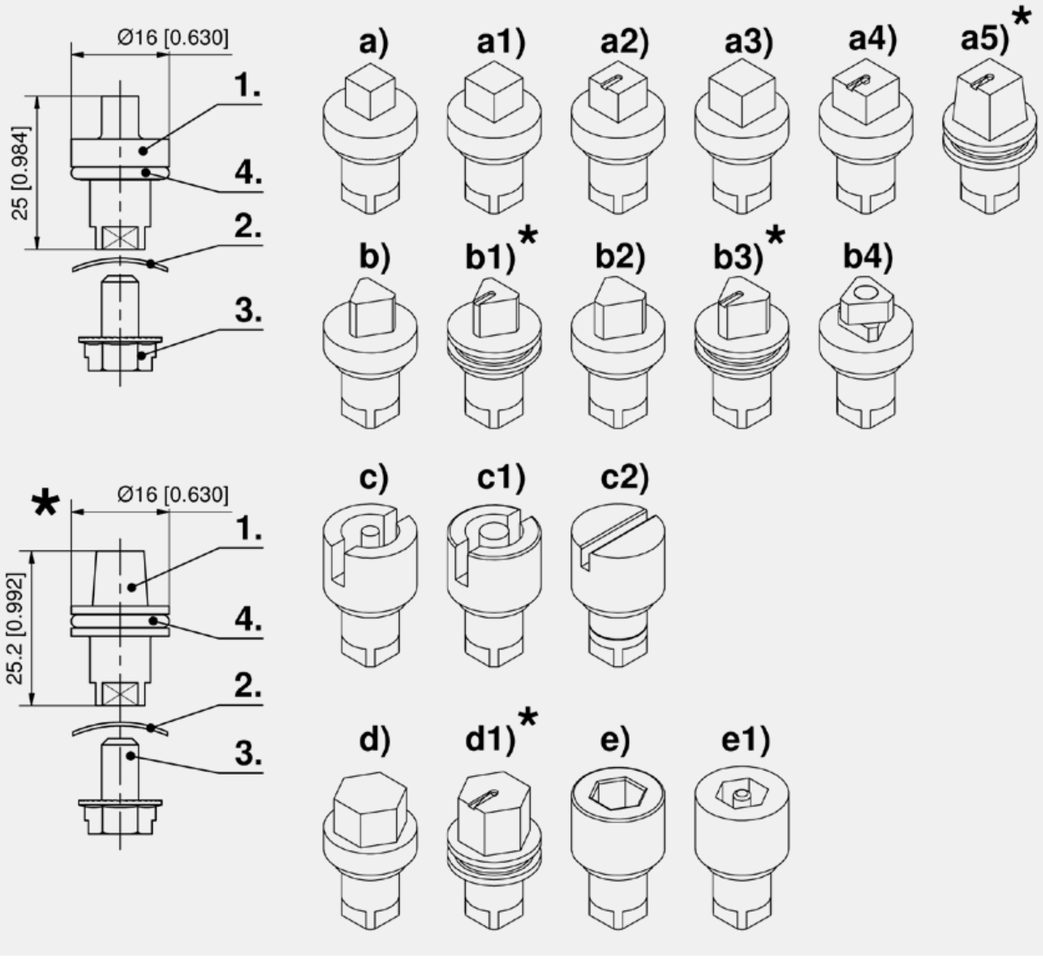
Insert with screw, wave washer and o-ring

Materials

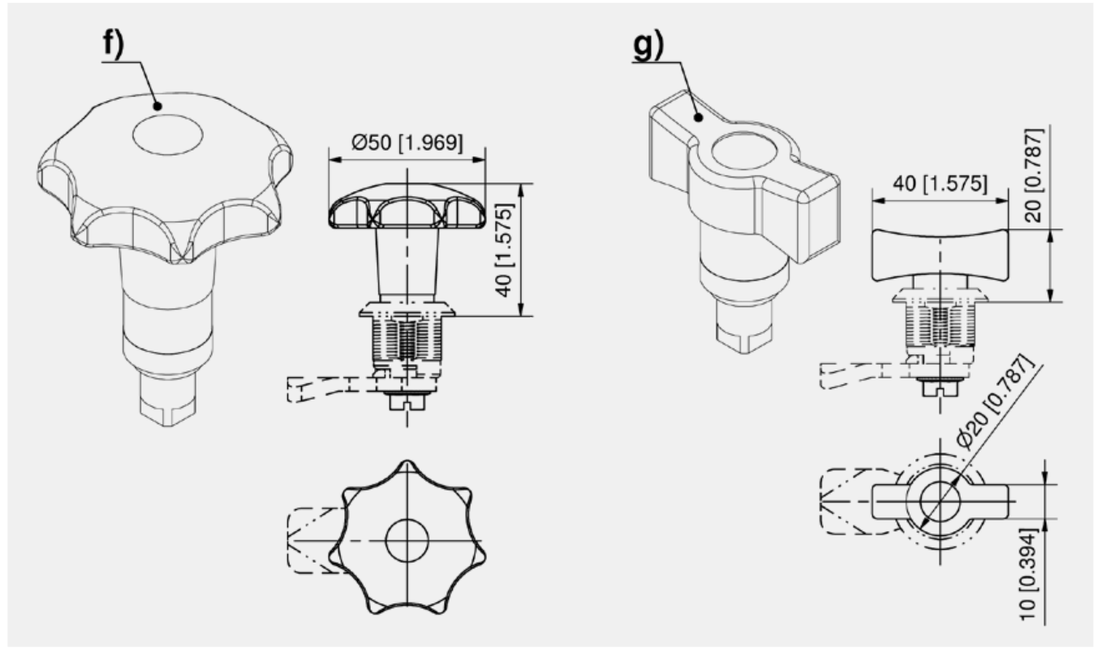
Inserts: stainless steel

Remarks

1. = Insert
2. = Wave washer
3. = Screw
4. = O-ring



Quarter-Turns Accessories



Insert

	Part Number	Insert	Indicator	Material
a)	200-9146.00-00000	Square 6mm		stainless steel AISI 316L
a1)	200-9119.00-00000	Square 7mm		stainless steel AISI 316L
a2)	100-9160.00-00000	Square 7mm	Yes	stainless steel AISI 316
a3)	200-9120.00-00000	Square 8mm		stainless steel AISI 316L
a4)	100-9161.00-00000	Square 8mm	Yes	stainless steel AISI 316
a5)	100-9165.00-00000	Conical square 9mm	Yes	stainless steel AISI 316
b)	200-9121.00-00000	Triangular 7mm		stainless steel AISI 316L
b1)	100-9162.00-00000	Triangular 7mm	Yes	stainless steel AISI 316
b2)	200-9122.00-00000	Triangular 8mm		stainless steel AISI 316L
b3)	100-9163.00-00000	Triangular 8mm	Yes	stainless steel AISI 316
b4)	100-9168.00-00000	Security insert with free rotating 8mm triangular front part		stainless steel AISI 316L
c)	200-9123.00-00000	Double bit 3mm pin		stainless steel AISI 316L
c1)	200-9124.00-00000	Double bit 5mm pin		stainless steel AISI 316L
c2)	200-9151.00-00000	Slotted 2x4mm		stainless steel AISI 316L
d)	200-9192.00-00000	Hex. 7/16"		stainless steel AISI 316L
d1)	100-9164.00-00000	Hex.SW 11	Yes	stainless steel AISI 316
e)	200-9195.00-00000	Socket hex. 8mm (5/16")		stainless steel AISI 316L
e1)	100-9118.00-00000	Socket hex. 8mm (5/16")		stainless steel AISI 316L
f)	200-9125.00-00000	Star knob		PA with stainless steel insert
g)	200-9179.00-00000	Wing knob		PA with stainless steel insert

Cams L35/45 steel

[1-102]

RoHS WEEE



Advantages

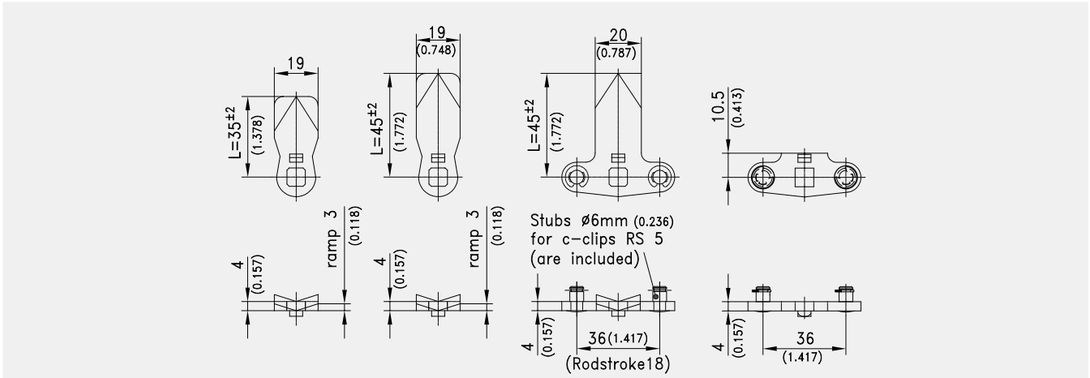
- Cams with 35mm and 45mm length for 1-point locking.
- Cam adapter see product system 2-151, 2-151.01, 2-151.04.
- 3-point cam for 3-point locking.
- 2-point cam as rod control for 2-point locking.

Materials

- **Cams:** steel, zinc plated

Remarks

Stainless steel cams see product system 7-105



Cams, L45, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-0402.00-00000		2 mm	4 mm	6 mm	14 mm	16 mm	20 mm	24 mm	26 mm	30 mm	34 mm	40 mm	44 mm	50 mm
200-0404.00-00000		4 mm	6 mm	8 mm	16 mm	18 mm	22 mm	26 mm	28 mm	32 mm	36 mm	42 mm	46 mm	52 mm
200-0406.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-0408.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-0410.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-0413.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-0414.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-0416.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-0418.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-0420.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-0422.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-0424.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-0425.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-0426.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-0428.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-0430.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-0432.00-00000	26 mm	32 mm	34 mm	36 mm	44 mm	46 mm	50 mm	54 mm	56 mm	60 mm	64 mm	70 mm	74 mm	80 mm
200-0434.00-00000	28 mm	34 mm	36 mm	38 mm	46 mm	48 mm	52 mm	56 mm	58 mm	62 mm	66 mm	72 mm	76 mm	82 mm
200-0435.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-0436.00-00000	30 mm	36 mm	38 mm	40 mm	48 mm	50 mm	54 mm	58 mm	60 mm	64 mm	68 mm	74 mm	78 mm	84 mm
200-0438.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-0440.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-0442.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-0444.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm
200-0445.00-00000	39 mm	45 mm	47 mm	49 mm	57 mm	59 mm	63 mm	67 mm	69 mm	73 mm	77 mm	83 mm	87 mm	93 mm
200-0447.00-00000	41 mm	47 mm	49 mm	51 mm	59 mm	61 mm	65 mm	69 mm	71 mm	75 mm	79 mm	85 mm	89 mm	95 mm
200-0450.00-00000	44 mm	50 mm	52 mm	54 mm	62 mm	64 mm	68 mm	72 mm	74 mm	78 mm	82 mm	88 mm	92 mm	98 mm
200-0453.00-00000	47 mm	53 mm	55 mm	57 mm	65 mm	67 mm	71 mm	75 mm	77 mm	81 mm	85 mm	91 mm	95 mm	101 mm
200-0455.00-00000	49 mm	55 mm	57 mm	59 mm	67 mm	69 mm	73 mm	77 mm	79 mm	83 mm	87 mm	93 mm	97 mm	103 mm

Cams, L35, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-0606.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-0608.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-0610.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-0613.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-0614.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-0616.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-0618.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-0620.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-0622.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-0624.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-0625.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-0626.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-0628.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-0630.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-0635.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-0638.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-0640.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-0642.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-0644.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm

3-Point Cam, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-9504.00-00000		4 mm	6 mm	8 mm	16 mm	18 mm	22 mm	26 mm	28 mm	32 mm	36 mm	42 mm	46 mm	52 mm
200-9506.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-9508.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-9510.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-9513.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-9514.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-9516.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-9518.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-9520.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-9522.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-9524.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-9525.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-9526.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-9528.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-9530.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-9532.00-00000	26 mm	32 mm	34 mm	36 mm	44 mm	46 mm	50 mm	54 mm	56 mm	60 mm	64 mm	70 mm	74 mm	80 mm
200-9534.00-00000	28 mm	34 mm	36 mm	38 mm	46 mm	48 mm	52 mm	56 mm	58 mm	62 mm	66 mm	72 mm	76 mm	82 mm
200-9535.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-9536.00-00000	30 mm	36 mm	38 mm	40 mm	48 mm	50 mm	54 mm	58 mm	60 mm	64 mm	68 mm	74 mm	78 mm	84 mm
200-9538.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-9540.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-9542.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-9544.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm
200-9545.00-00000	39 mm	45 mm	47 mm	49 mm	57 mm	59 mm	63 mm	67 mm	69 mm	73 mm	77 mm	83 mm	87 mm	93 mm
200-9547.00-00000	41 mm	47 mm	49 mm	51 mm	59 mm	61 mm	65 mm	69 mm	71 mm	75 mm	79 mm	85 mm	89 mm	95 mm
200-9550.00-00000	44 mm	50 mm	52 mm	54 mm	62 mm	64 mm	68 mm	72 mm	74 mm	78 mm	82 mm	88 mm	92 mm	98 mm

2-Point Cam

Part Number	Stop	Installation type
200-9599.00-00000	Yes	screw-on

Accessories
1-260 **Hooked Cam**
1-261 **Cams with Ramp**
1-262 **Cam variable**
2-151 **2-, 3- and 4-Point Cam Adapter**
2-150 **3-Point Cam**
2-151.04 **3-Point Cam Adapter**

Cams L35/45 Stainless Steel

[7-105]

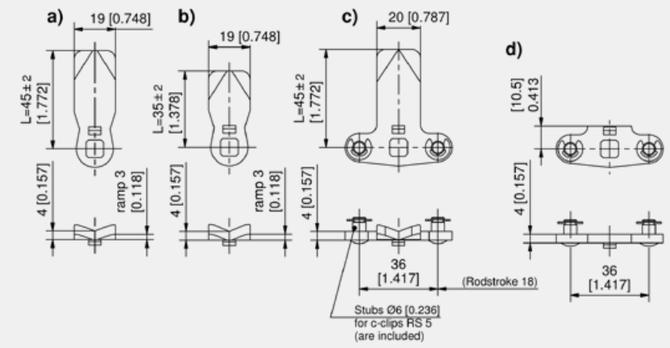


Advantages

- Cams with 35mm and 45mm length for 1-point locking.
- 3-point cam for 3-point locking.
- 2-point cam as rod control for 2-point locking.

Materials

- **Cams:** stainless steel AISI 304



Cams, L45

	Part Number	H-dimension GI18	H-dimension GI30	H-dimension GI36	H-dimension GI40	H-dimension GI50	H-dimension GI60	Stop
a)	200-0506.00-00000	6 mm	18 mm	24 mm	28 mm	38 mm	48 mm	Yes
a)	200-0508.00-00000	8 mm	20 mm	26 mm	30 mm	40 mm	50 mm	Yes
a)	200-0510.00-00000	10 mm	22 mm	28 mm	32 mm	42 mm	52 mm	Yes
a)	200-0514.00-00000	14 mm	26 mm	32 mm	36 mm	46 mm	56 mm	Yes
a)	200-0516.00-00000	16 mm	28 mm	34 mm	38 mm	48 mm	58 mm	Yes
a)	200-0518.00-00000	18 mm	30 mm	36 mm	40 mm	50 mm	60 mm	Yes
a)	200-0520.00-00000	20 mm	32 mm	38 mm	42 mm	52 mm	62 mm	Yes
a)	200-0522.00-00000	22 mm	34 mm	40 mm	44 mm	54 mm	64 mm	Yes
a)	200-0524.00-00000	24 mm	36 mm	42 mm	46 mm	56 mm	66 mm	Yes
a)	200-0526.00-00000	26 mm	38 mm	44 mm	48 mm	58 mm	68 mm	Yes
a)	200-0528.00-00000	28 mm	40 mm	46 mm	50 mm	60 mm	70 mm	Yes
a)	200-0532.00-00000	32 mm	44 mm	50 mm	54 mm	64 mm	74 mm	Yes
a)	200-0542.00-00000	42 mm	54 mm	60 mm	64 mm	74 mm	84 mm	Yes
a)	200-0550.00-00000	50 mm	62 mm	68 mm	72 mm	82 mm	92 mm	Yes

Cams, L35

	Part Number	H-dimension GI18	H-dimension GI30	H-dimension GI36	H-dimension GI40	H-dimension GI50	H-dimension GI60	Stop
b)	200-4535.00-00018	18 mm	30 mm	36 mm	40 mm	50 mm	60 mm	Yes
b)	200-4535.00-00020	20 mm	32 mm	38 mm	42 mm	52 mm	62 mm	Yes
b)	200-4535.00-00022	22 mm	34 mm	40 mm	44 mm	54 mm	64 mm	Yes

3-Point Cam

	Part Number	Version	Stop
c)	200-9845.00-00022	Bending A20	Yes
c)	200-9845.00-00028	Bending A26	Yes

2-Point Cam

	Part Number	Stop
d)	200-9899.00-00000	Yes

Slide Shoe for Cams

[1-103]



Advantages

- Slide shoe for cams, 2 parts.
- Tool-less assembly.
- Matching cams as of 35 mm, product system 1-102 and 7-105.
- No abrasion of the metal and therefore safety concerning electronic built-in components.
- Good gliding properties, therefore low friction coefficient.
- The assembly will be carried out with the already installed Quarter-Turn, it is possible to retrofit at any time.
- Vibration-proof according to DIN EN 61373.
- **Caution:** The H-dimension diminishes by 2mm. E.g. cam 200-0418 (H-dimension 18mm) results into an H-dimension of 16mm.

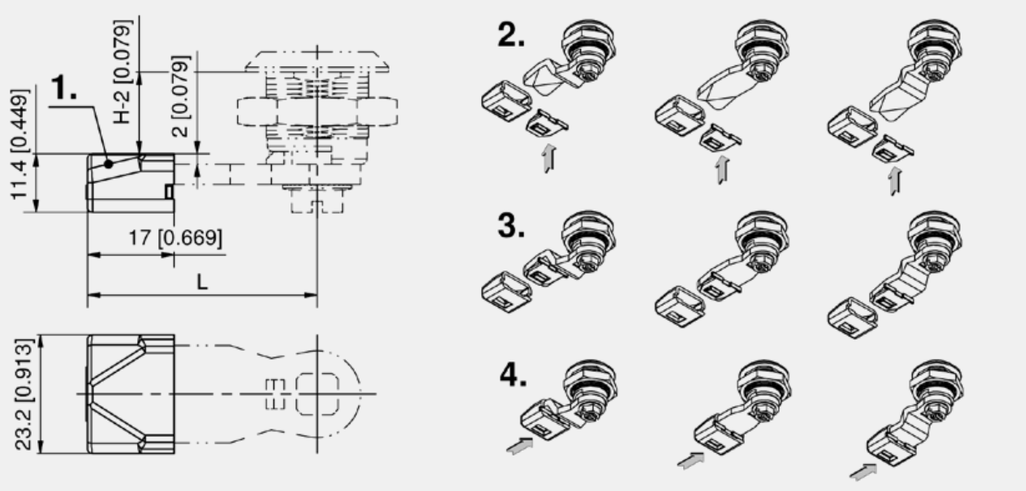
Materials

- **Slide shoe:** POM, natural

Remarks

The Slide shoe **cannot** be used with the following cams: 200-0606, 200-0608, 200-0610, 200-0613, 200-0614, 200-0402, 200-0404, 200-0406, 200-0408, 200-0410, 200-0506, 200-0508 and 200-0510 and **not** for 3-point cams of product system 2-150, 1-102 and 7-105.

1. Ramp 3mm
2. Place latch under the cam.
3. Slide housing onto the cam and the latch.
4. Latch must lock audibly into the window.



Slide shoe

Part Number	Material	Surface
200-9622.00-00000	POM	natural

Cams L45 without Ramp and Stop [1-102.01]

RoHS WEEE



Advantages

- **a) =** straight cam (XX)
- **(XX)** = housing length, measured from the upper edge of the panel to the upper edge of the cam.
- **b) =** negatively bent cam (upwards).
- **c) =** positively bent cam (downwards).
- Formula for H-dimension =

for **negatively** bent cams **K** will be **substracted** from (XX),

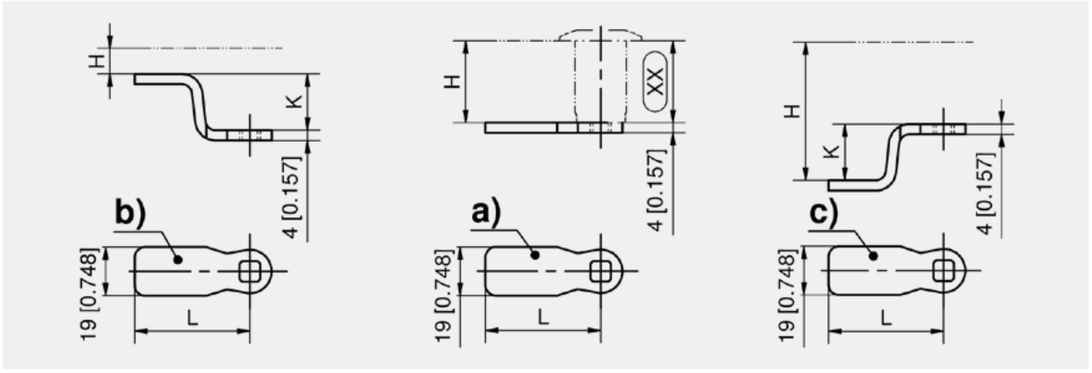
for **positively** bent cams **K** will be **added** to (XX).

Materials

- **Cams:** steel, zinc plated

Remarks

Attention: please note that a collision with the fixing nut of negatively bent cams installed in thick doors might be possible. The functionality has to be checked in the individual case.



Cam, length 45mm, without stop

	Part Number	b) negatively bent K =	c) positively bent K =	Length
	100-0545.15-00022	22 mm	22 mm	45 mm
	100-0545.15-00020	20 mm	20 mm	45 mm
	100-0545.15-00018	18 mm	18 mm	45 mm
	100-0545.15-00016	16 mm	16 mm	45 mm
	100-0545.15-00014	14 mm	14 mm	45 mm
	100-0545.15-00012	12 mm	12 mm	45 mm
	100-0545.15-00010	10 mm	10 mm	45 mm
	100-0545.15-00008	8 mm	8 mm	45 mm
	100-0545.15-00006	6 mm	6 mm	45 mm
	100-0545.15-00004	4 mm	4 mm	45 mm
	100-0545.15-00002	2 mm	2 mm	45 mm
a)	100-0545.15-00000	00 mm	00 mm	45 mm

Cams L35/45 without Ramp and Stop Stainless Steel [7-105.01]

RoHS WEEE



Advantages

- **a), a1) =** straight cam (XX)
- (XX) = housing length, measured from the upper edge of the panel to the upper edge of the cam.
- **b), b1) =** negatively bent cam (upwards)
- **c), c1) =** positively bent cam (downwards)
- Formula for H-dimension =

for **negatively** bent cams **K** will be **substracted** from (XX),

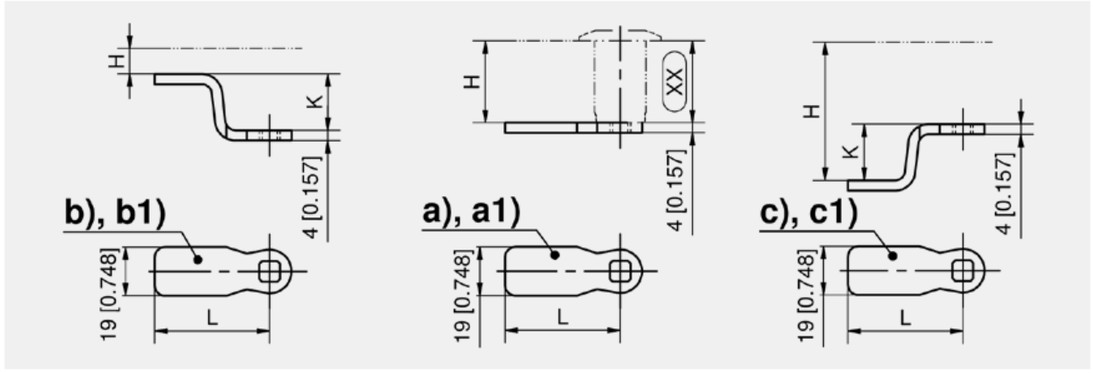
for **positively** bent cams **K** will be **added** to (XX)

Materials

- **Cams:** stainless steel AISI 304

Remarks

Attention: please note that a collision with the fixing nut of negatively bent cams installed in thick doors might be possib-le. The functionality has to be checked in the individual case.



Cam, length 35mm, without stop

	Part Number	b) negatively bent K =	c) positively bent K =	Length
	100-0535.80-00022	22 mm	22 mm	35 mm
	100-0535.80-00020	20 mm	20 mm	35 mm
	100-0535.80-00018	18 mm	18 mm	35 mm
	100-0535.80-00016	16 mm	16 mm	35 mm
	100-0535.80-00014	14 mm	14 mm	35 mm
	100-0535.80-00012	12 mm	12 mm	35 mm
	100-0535.80-00010	10 mm	10 mm	35 mm
	100-0535.80-00008	8 mm	8 mm	35 mm
	100-0535.80-00006	6 mm	6 mm	35 mm
	100-0535.80-00004	4 mm	4 mm	35 mm
	100-0535.80-00002	2 mm	2 mm	35 mm
a)	100-0535.80-00000	00 mm	00 mm	35 mm

Cam, length 45mm, without stop

	Part Number	b) negatively bent K =	c) positively bent K =	Length
	100-0545.80-00022	22 mm	22 mm	45 mm
	100-0545.80-00020	20 mm	20 mm	45 mm
	100-0545.80-00018	18 mm	18 mm	45 mm
	100-0545.80-00016	16 mm	16 mm	45 mm
	100-0545.80-00014	14 mm	14 mm	45 mm
	100-0545.80-00012	12 mm	12 mm	45 mm
	100-0545.80-00010	10 mm	10 mm	45 mm
	100-0545.80-00008	8 mm	8 mm	45 mm
	100-0545.80-00006	6 mm	6 mm	45 mm
	100-0545.80-00004	4 mm	4 mm	45 mm
	100-0545.80-00002	2 mm	2 mm	45 mm
a1)	100-0545.80-00000	00 mm	00 mm	45 mm

Hooked Cam

[1-260]

RoHS WEEE

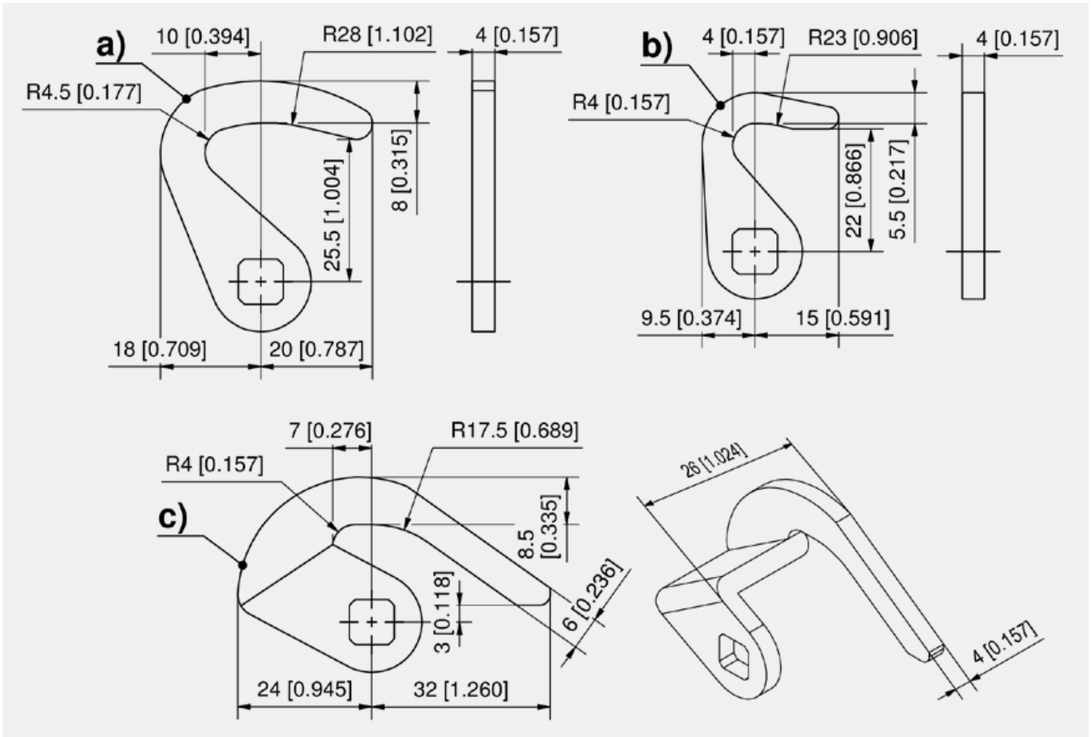


Advantages

- Hooked cam suitable for all 200-series latches and handles.
- **Please note:** When assembling 200-1701 or 200-1703 by DIRAK, please indicate the locking direction of the cam.
- Cam 200-1702 only clockwise operation.

Materials

- **Hooked cam:** steel, zinc plated



Hooked Cams

	Part Number	Version
a)	200-1701.00-00000	RH / LH
b)	200-1703.00-00000	RH / LH
c)	200-1702.00-00000	RH

Cams with Ramp

[1-261]



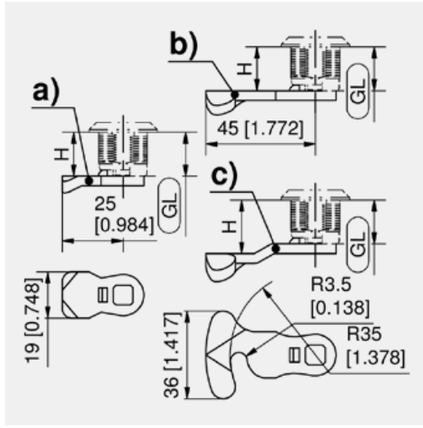
Advantages

- a) Cam for Quarter-Turns series 200 with 25mm lenght.
- b) and c) Cams for Quarter-Turns series 200 with 6mm ramp.

Materials

- **Cams:** steel, zinc plated

RoHS WEEE



Cam with Ramp

	Part Number	H-dimension	Ramp	Length	Stop
a)	200-5118.00-00000	18 mm	3mm	25 mm	Yes
b)	200-4018.00-00000	18 mm	6mm	45 mm	Yes
c)	200-4022.00-00000	22 mm	6mm	45 mm	Yes

Cam variable

[1-262]



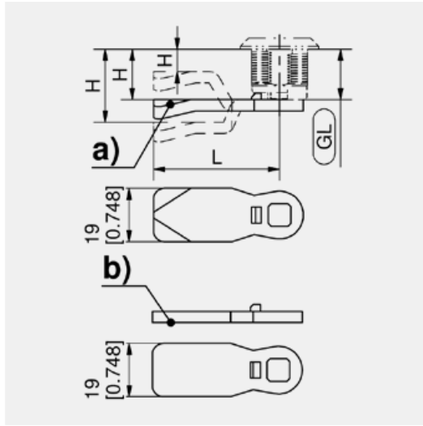
Advantages

- Special cams for Quarter-Turn series 200.
- Example for cam **with** ramp, with L=40 and H=20: 200-4440.00-00020
- Example for cam **without** ramp, with L=40 and H=20: 200-5440.00-00020

Materials

- **Cams:** steel, zinc plated

RoHS WEEE



Cam, L-and H-dimension variable

	Part Number	Version	Stop
a)	200-44LL.00-Hxxmm	with ramp	Yes
b)	200-54LL.00-Hxxmm	without ramp	Yes

Slam-Cam

[1-264]



Advantages

- Slam-cam for slam doors. Locking without key or tool.
- **To a):** The teflon washer replaces the wave washer underneath the insert.
- Used with all Quarter-Turns and inserts according.
- **To b):** Slam-cam with free-stroke for applications with cylinder locks and handles.
- A slam-cam set consists of a cam, a spring and M6x10 hex screw with underhead serrations self securing powder dot.
- This self securing powder dot is to tune / adjust the correct friction for the stroke.
- The screw supplied with the handle is not required.

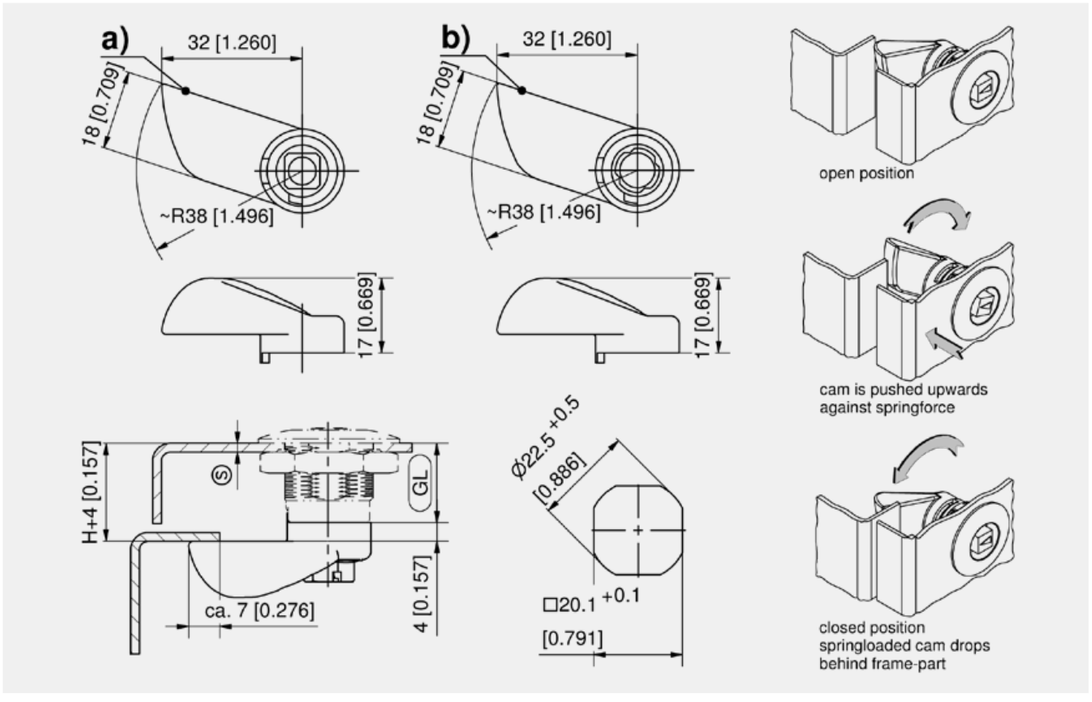
Materials

a) and b)

- **Slam-cam:** zinc die, chrome plated
- **Spring:** steel, zinc plated
- **Spacer:** POM

Remarks

Attention: On request, latch units with this cam should be assembled by DIRAK. A pre-assembled Quarter-Turn can be installed through the cutout.



Slam-Cam

	Part Number	Type	Version	H-dimension	Length
a)	200-9605.00-00000	for insert	RH	22 mm	32 mm
a)	200-9606.00-00000	for insert	LH	22 mm	32 mm
b)	200-9607.00-00000	for Cylinder Quarter-Turns and Handle variants	RH	22 mm	32 mm
b)	200-9608.00-00000	for Cylinder Quarter-Turns and Handle variants	LH	22 mm	32 mm

Accessories
1-101 **Inserts Pr20.1**
1-100 **Quarter-Turn Pr20.1 L18**
1-110 **Quarter-Turn Pr20.1 L30-60**

Accessories
1-120 **Cylinder Quarter-Turn Pr20.1 L18**
1-154 **Quarter-Turn with L-Handle Pr20.1 L18 and 40**
1-210 **Quarter-Turn with Conical Square Insert Pr20.1 L18**

Slam-Cam for Quarter-Turn Pr20.1

[7-076]

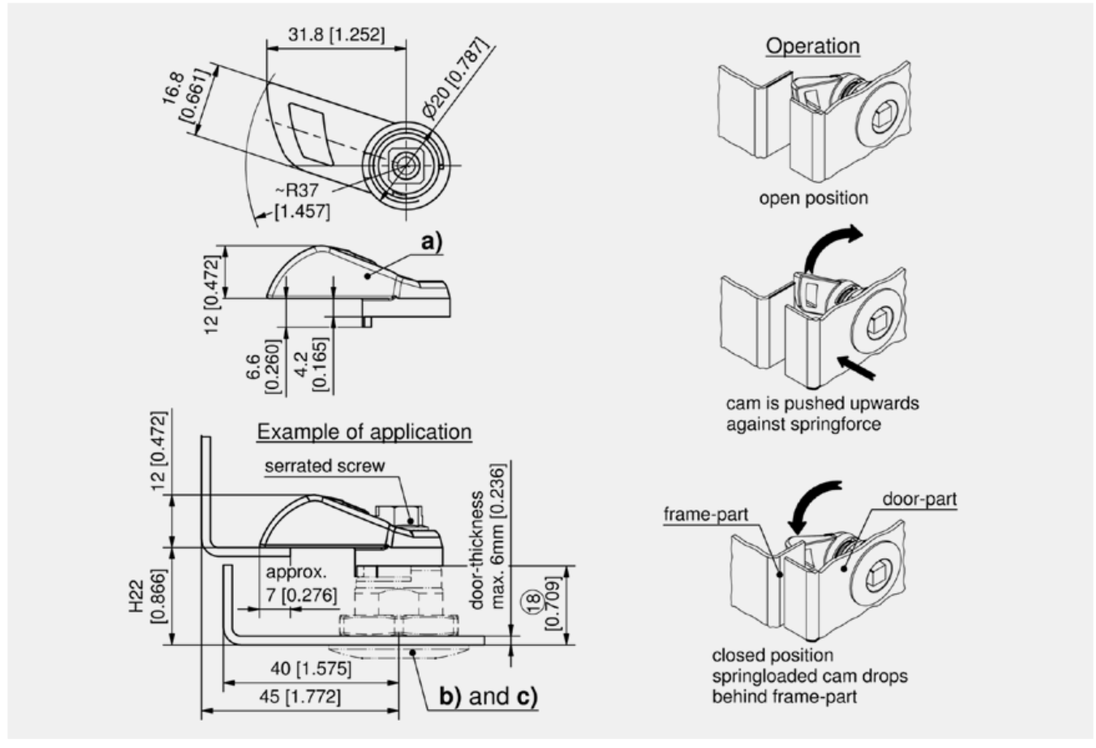


Advantages

- Slam-cam for slam doors or flaps.
- Locking without key or tool.
- A slam-cam set consists of a cam, a spring and a serrated screw with self securing powder dot.
- This self securing powder dot is to tune / adjust the correct friction for the stroke.
- On request, latch units with this cam should be assembled by DIRAK. A pre-assembled Quarter-Turn can be installed through the cutout.

Materials

- **Slam-cam:** stainless steel AISI 316
- **Spring:** stainless steel AISI 301
- **Serrated screw:** stainless steel AISI 303



Slam-Cam

	Part Number	Version	Length	Material
a)	200-9629.00-00000	RH	32 mm	Stainless Steel
a)	200-9630.00-00000	LH	32 mm	Stainless Steel

Accessories
b) 7-082 **Insert Stainless Steel Pr20.1**
b) 7-080 **Quarter-Turn Pr20.1 L18 - L60**
b) 7-080.01 **Quarter-Turn Pr20.1 L18**
c) 7-084 **Cylinder Quarter-Turn Pr20.1 L18**

Roller Cam height adjustable

[1-105]

RoHS WEEE

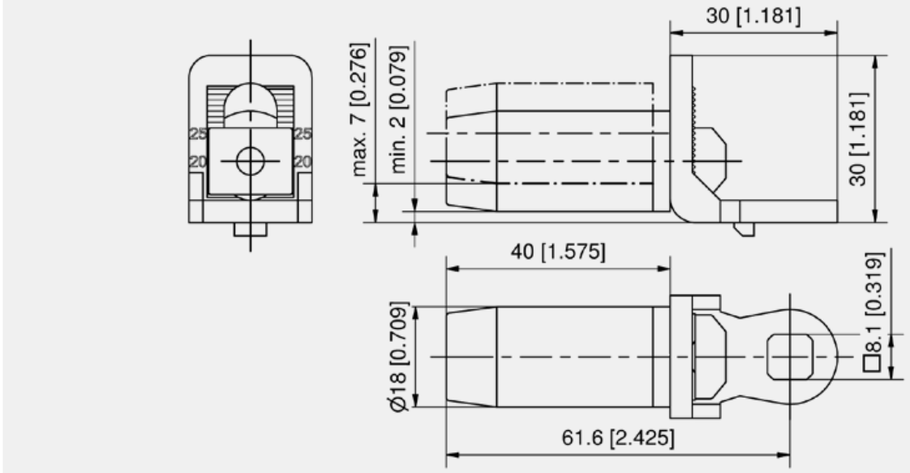


Advantages

- The roller cam reduces the friction and eases the closing.
- No scratching or spalling of the paint at the inner part of the bending.
- Adjustable in height from H20 to H25.
- Suitable for all inserts, swing-handles and multipoint locking systems with square 8mm.
- H- dimension of the cam easy to adjust because of impressed height marks.

Materials

- **Cam:** zinc die, zinc plated
- **Roller:** PA, black
- **Tenon blocks:** zinc die, untreated
- **Distance bushing:** zinc die, untreated
- **Socket head screw:** teel, zinc plated



Roller cam

Part Number	variable H-dimension	Length	Diameter Ø	Packaging unit
100-9755.00-00000	20 - 25 mm	61.6 mm	18 mm	10 pcs.

Handle for Quarter-Turn Pr20.1

[1-115]



Advantages

- For all Quarter-Turn Housings Pr20.1.
- Can be assembled afterwards for easier transport and packaging (flush).
- Inserts and screws are included.

Materials

- **Handle:** PA, black
- **Inserts:** zink die, zinc plated

Remarks

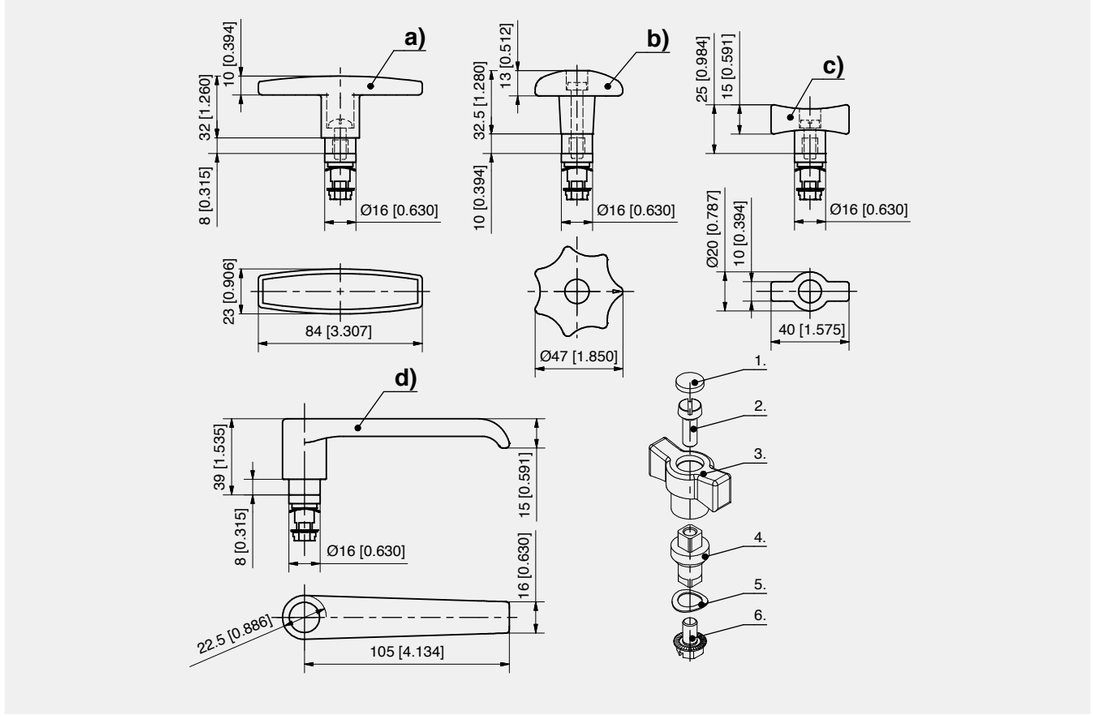
Handles consist of:

1. Cover,
2. Screw M6,
3. Handle element,
4. Insert with thread,
5. Spring washer,
6. Serrated screw

20

M6
4Nm

RoHS WEEE



Handle for Quarter-Turn Pr20.1

	Part Number	Handle element
a)	200-9134.00-09137	T-handle with insert
b)	200-9135.00-09137	Star knob with insert
c)	200-9136.00-09137	Wing knob with insert
d)	200-9144.00-09137	L-handle with insert

Dish Pr20.1

[1-274]

20

RoHS WEEE

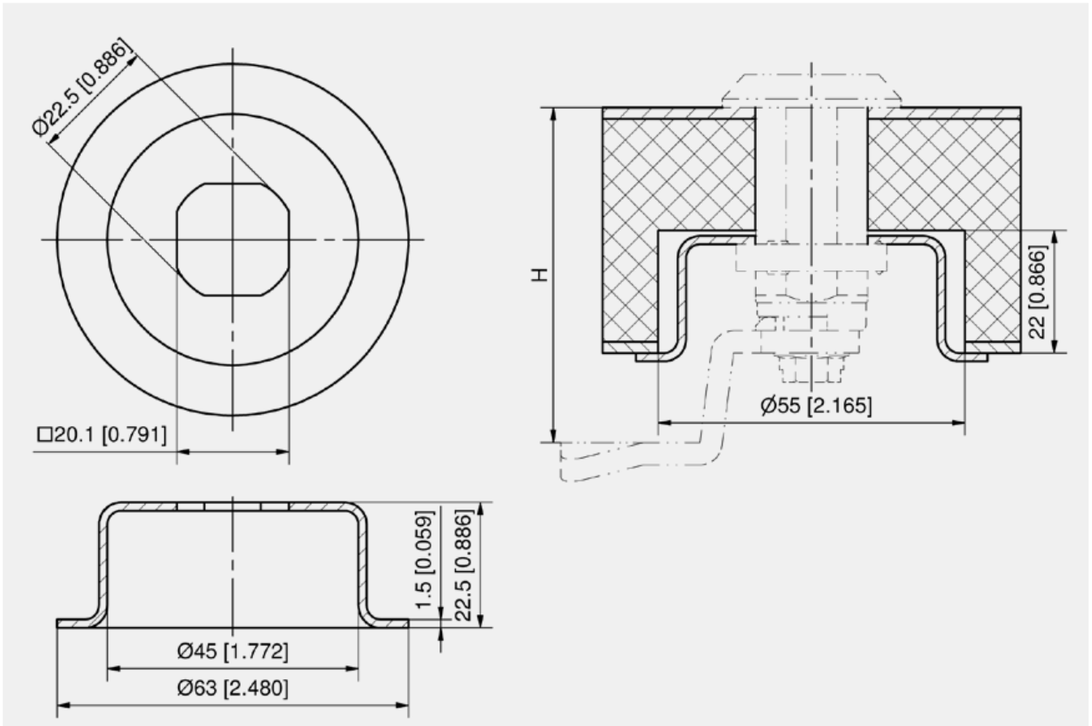


Advantages

- Dish for Quarter-Turn installation in insulation doors.
- Decrease of the door-thickness of 21 mm.
- Expanded bearing face for the fixing of Quarter-Turns in insulation doors.

Materials

- **Dish:** steel, zinc plated



Dish

Part Number	Depth
200-3902.00-00000	21 mm

Emergency Handle + Anti-Rotation Device Pr20.1

[1-275]

20

RoHS WEEE



for cutout 20.1

Advantages

- **Emergency handle** for Quarter-Turn series 200.
- Installation over the cam.
- **Anti-rotation device** for Quarter-Turn series 200 with screw-in feature.

Materials

a)

- **Emergency handle:** zinc die, red

b) and b1)

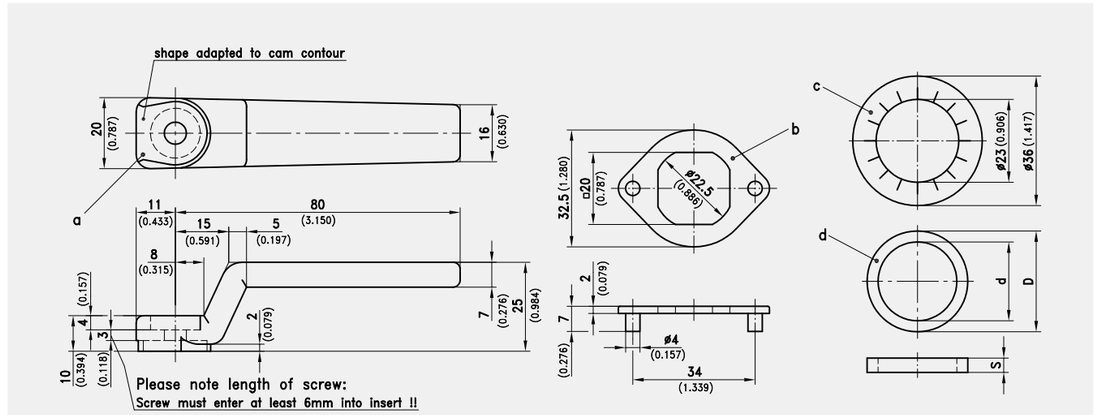
- **Anti-rotation device:** zinc die, zinc plated or black

c) and c1)

- **Serrated lock washer:** steel, zinc plated or stainless steel

d), d1), d2) and d3)

- **Spacer:** steel, black or chrome plated, or zinc die, chrome plated or black



Accessories Quarter-Turn

	Part Number	Type	Material	Surface	d	D	S
a)	200-4701.00-00000	Emergency handle	zinc die	red			
b)	200-4601.00-00000	Anti-rotation device	zinc die	zinc plated			
b)	200-4601.02-00000	Anti-rotation device	zinc die	black			
c)	800-0064.00-00000	Serrated lock washer	steel	zinc plated			
c)	840-6798.00-00023	Serrated lock washer	Stainless Steel	untreated			
d)	200-4608.00-00000	Spacer	steel	black	21.9 mm	28 mm	4 mm
d)	200-4610.00-00000	Spacer	steel	chrome plated	21.9 mm	30 mm	4 mm
d)	200-4611.01-00000	Spacer	zinc die	chrome plated	21.7 mm	32 mm	6.6 mm
d)	200-4611.02-00000	Spacer	zinc die	black	21.7 mm	32 mm	6.6 mm

Dust Caps and Sealing Plug Pr20.1

[1-270]



Advantages

- **Dust caps** for head Ø28mm - Ø32mm.
- **Material TPU:** Excellent resistance to pure mineral oils and greases.
- **Sealing plugs** for inner diameter Ø16.1mm.

Materials

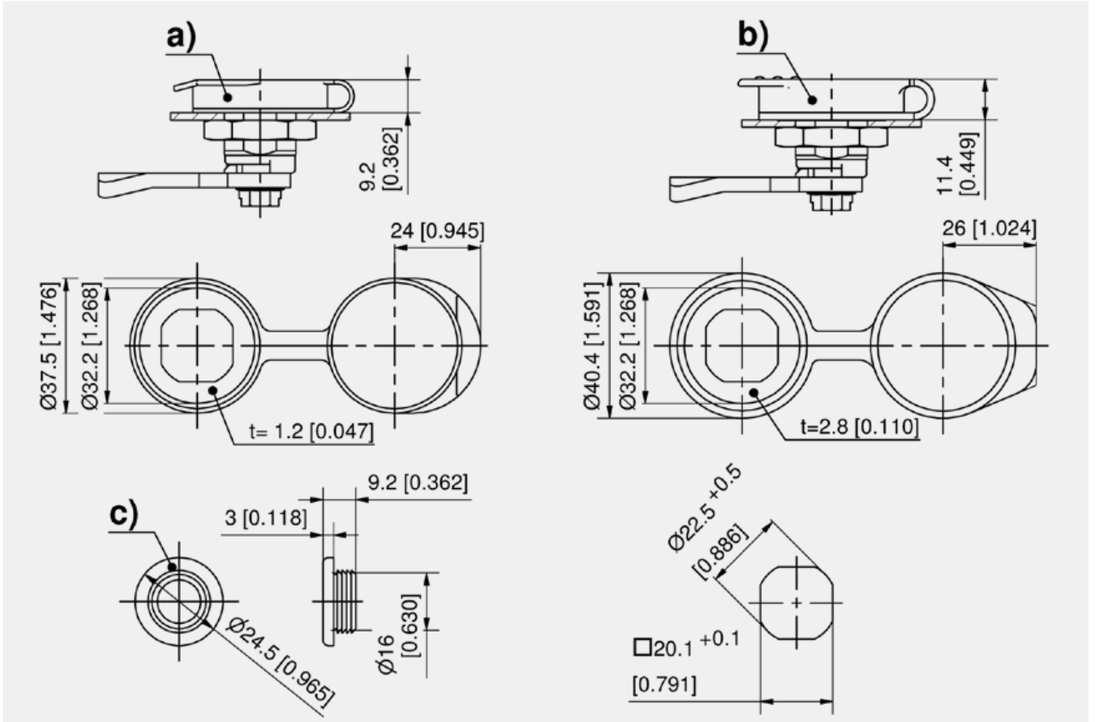
- **Dust cap:** PP or TPU, black
- **Sealing Plug:** NBR+PVC, black

Remarks

When using the dust cap a) the H-dimension changes by 1.2mm.

When using the dust cap b), the H dimension changes by 2.8mm. (The dust cap is equipped with sealing ribs (t=3.2mm) which are compressed to t=2.8mm with a tightening torque of 15Nm.)

The sealing plug c) is only for out-side triangular respectively square insert!



Accessories Quarter-Turn

	Part Number	Name	According to DIN EN 60529	Material	Temperature range
a)	200-4101.00-00000	Dust cap	IP65	PP	0° to +80°C
b)	200-4103.00-00000	Dust cap	IP65/67	TPU	-40° to +100°C
c)	292-0606.00-00000	Sealing plug	IP65	NBR+PVC	

Finger Pull for Quarter-Turn Pr20.1

[1-270.01]



Advantages

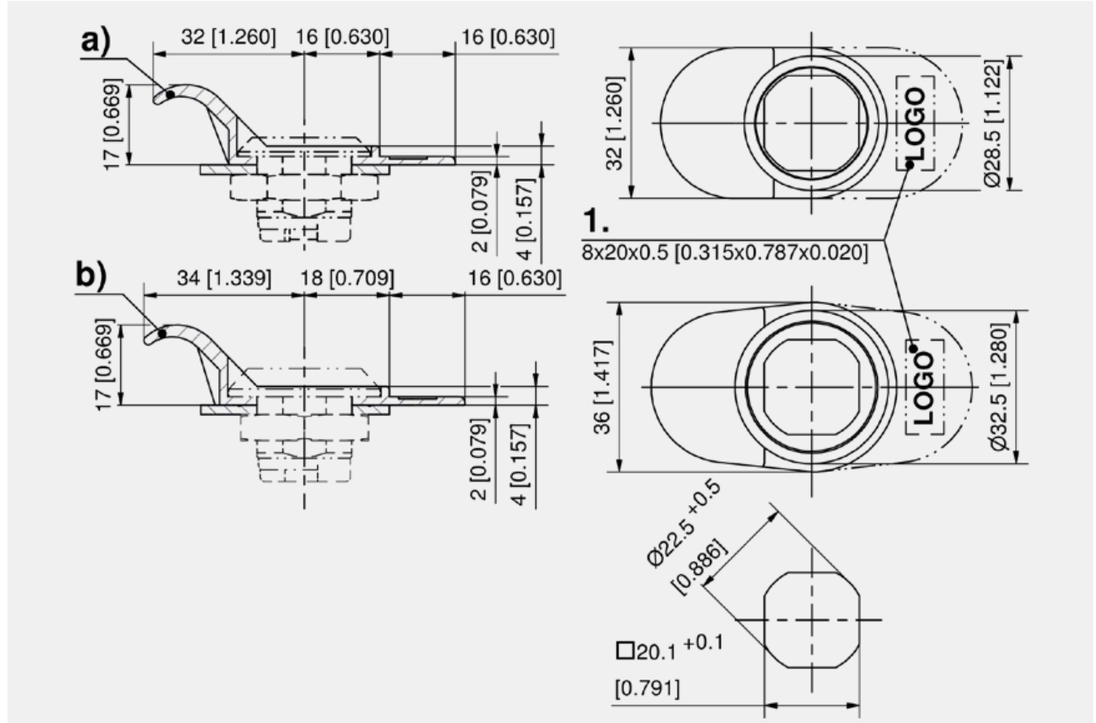
- For head Ø28mm see product system 1-083, 1-095, 1-100, 1-120, 1-121, 1-210, 7-080 and 7-082.
- For head Ø30/32mm see product system 1-077, 1-081, 1-085, 1-086, 1-092, 1-100, 1-110, 1-120, 1-200, 7-080.01 and 7-084.
- With Logo on request.
- By using a finger pull the H-dimension changes by 2mm.

Materials

- **Finger Pull:** PA, black

Remarks

1. = Area for company name or logo



Accessories Quarter-Turn

	Part Number	Name	Recess for label	Material	Surface
a)	200-4703.03-00000	Finger pull Ø28	No	PA	black
a)	200-4704.03-00000	Finger pull Ø28	Yes	PA	black
b)	200-4705.03-00000	Finger pull Ø32	No	PA	black
b)	200-4706.03-00000	Finger pull Ø32	Yes	PA	black

LED Module for Quarter-Turn Pr20.1

[1-271E]



Advantages

- LED module visualises the locking status and regular red flashing indicates open position.
- Stand-alone solution.
- For Quarter-Turns Pr20.1 with flat head Ø32 mm.
- **Magnet holder reversible:**
- 1. for cams L35/45
- 2. 3-point cam-adapter.
- Cap removable for battery change.
- In combination with IP approved Quarter-Turns the LED module requires an additional flat seal.
- Grounding only when using Quarter-Turn with grounding clip.

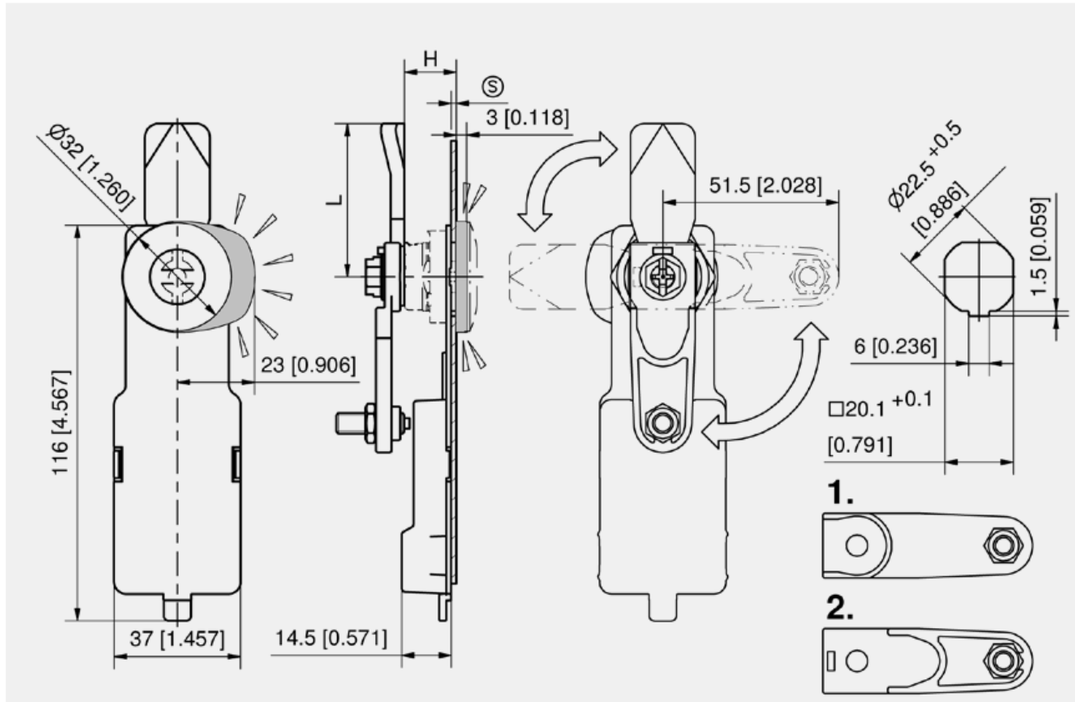
Materials

- **Flash disc:** PMMA
- **Module housing:** PA
- **Magnet holder:** zinc die, untreated

Remarks

Battery CR2032 3V **not** included in the scope of delivery.

Attention: Installation of the LED module leads to a max. door thickness for housing 18mm of 3.5mm. Depending on the position of the flash disc the notch in the cutout needs to be adapted.



LED Module

Part Number	Name	Version
100-9901.00-00000	LED Module	red flashing

DST Cam Catch

[1-050DST]

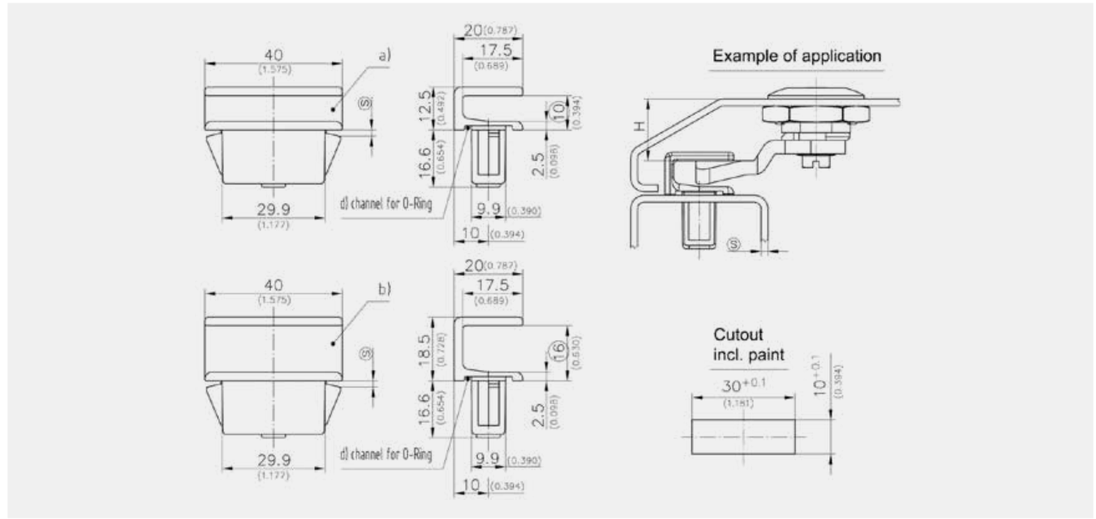


Advantages

- Concealed Cam Catch.
- RH / LH application.
- Tool-less clip-in assembly into a 30 x 10mm cutout in the frame.
- Available in 2 different heights, 10mm and 16mm.
- IP65 according to DIN EN 60529 by using O-ring 839-3770.00-02022.

Materials

- **Cam catch:** zinc die, black
- **Snap wedges:** sintered steel



Cam Catch, 10mm

	Part Number	Clamping range	Material	Surface	Packaging unit
a)	408-9106.33-00010	0.7 - 1.2 mm	zinc die	black	10 pcs.
a)	408-9106.33-00015	1.2 - 1.7 mm	zinc die	black	10 pcs.
a)	408-9106.33-00020	1.7 - 2.2 mm	zinc die	black	10 pcs.
a)	408-9106.33-00025	2.2 - 2.7 mm	zinc die	black	10 pcs.
a)	408-9106.33-00030	2.7 - 3.2 mm	zinc die	black	10 pcs.

Cam Catch, 16mm

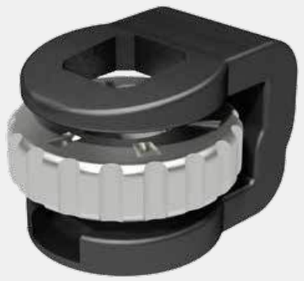
	Part Number	Clamping range	Material	Surface	Packaging unit
b)	408-9107.33-00010	0.7 - 1.2 mm	zinc die	black	10 pcs.
b)	408-9107.33-00015	1.2 - 1.7 mm	zinc die	black	10 pcs.
b)	408-9107.33-00020	1.7 - 2.2 mm	zinc die	black	10 pcs.
b)	408-9107.33-00025	2.2 - 2.7 mm	zinc die	black	10 pcs.
b)	408-9107.33-00030	2.7 - 3.2 mm	zinc die	black	10 pcs.

Accessories
c) 292-0401.00-03010 **Cutout-cover**
d) 839-3770.00-02022 **O-ring 20 x 2.2mm**

Catch for standard Cams

[2-151.02]

RoHS WEEE



Advantages

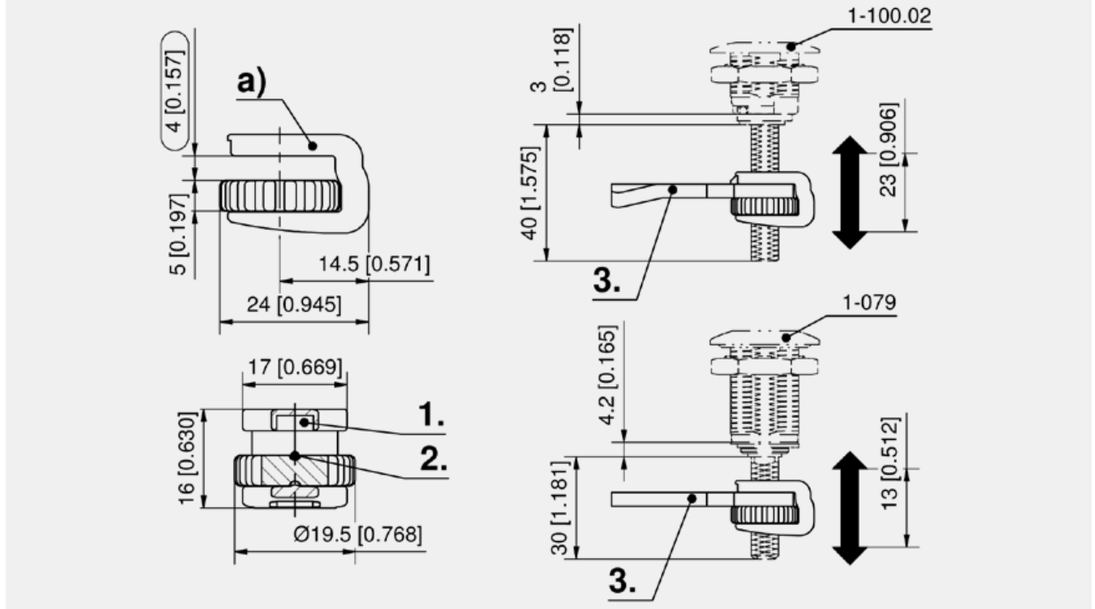
- This catch is suitable for all M10 square threaded rods.
- Tool-less adjustment for standard cams 1-102.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

Materials

- **Catch:** PA, black
- **Stop washer:** zinc die, zinc plated

Remarks

1. = Recess for cams with stop
2. = Detent (6x)
3. = Cam



Accessories Cams

	Part Number	Version	Surface
a)	248-9901.00-00000	stop washer M10	zinc plated

Catch for Standard Cams Pr20.1

[7-077.01]



Advantages

- This Catch is suitable for M10 square threaded rods.
- For tool-less adjustment of standard cams.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25 mm.
- Vibration-proof according to DIN EN 61373.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

Materials

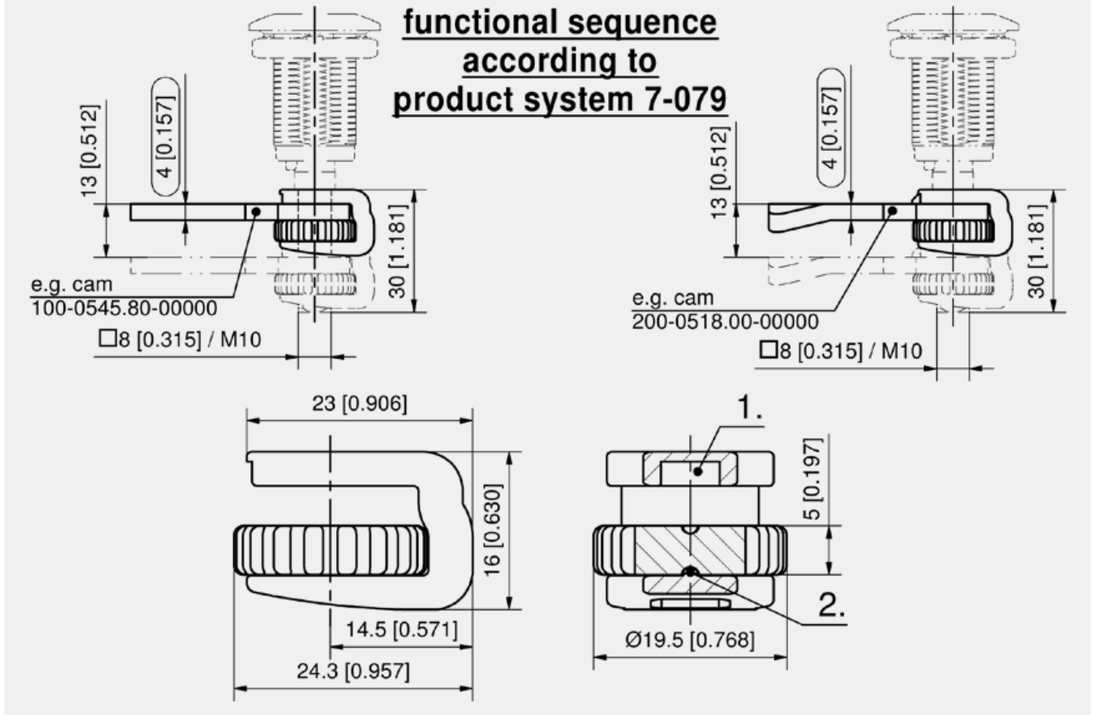
- **Catch:** PA, black
- **Stop Washer:** stainless steel

Remarks

1. = Recess for cams with stop
2. = Detent (6x)

DIN 61373

RoHS WEEE



Accessories Cams

Part Number	Version
248-9902.00-00000	stop washer M10, stainless steel

Height Adjustable Cam L45

[7-077]

DIN 61373

RoHS WEEE

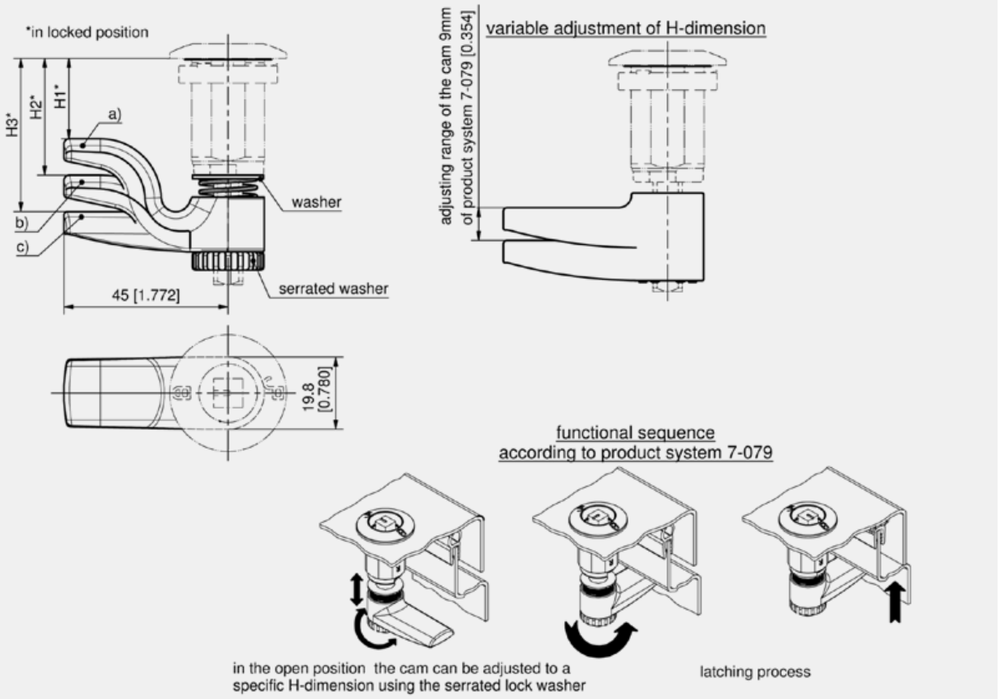


Advantages

- Height adjustable cam for all Quarter-Turns and compression Quarter-Turns with long shaft that allow for adjustable cam.
- Vibration-proof according to DIN EN 61373.
- Tool-less adjustment.
- Variable adjustments can easily be made on different size seals, using serrated washer.
- Adjusting range of 9 mm [0.354].
- Can be readjusted at any time (compressed sealing).
- Clamping range of 30 mm [1.181] can be achieved with only 3 cams.
- Each detent achieves 0.25 mm [0.010] adjustment.

Materials

- **Cam and serrated washer:** stainless steel AISI 316, untreated
- **Washer:** stainless steel AISI 304, untreated
- **Compression spring:** stainless steel AISI 301, untreated



Height adjustable cam

	Part Number	H-dimension straight variable	H-dimension negative variable	Length	Material
a)	100-9079.00-00001		20 - 29 mm	45 mm	Stainless Steel
b)	100-9079.00-00002		30 - 39 mm	45 mm	Stainless Steel
c)	100-9079.00-00000	40 - 49 mm		45 mm	Stainless Steel

Quarter-Turns Accessories



Height Adjustable Cam L45

See page 180



Height-adjustable Rod Guide with Knurled Nut

See page 191



3-Point Cam Adapter adjustable

See page 183



Catch for Standard Cams Pr20.1

See page 179

2-, 3- and 4-Point Cam Adapter

[2-151]



Advantages

- 3-point cam adapter for cams of product system 1-102.
- With and without 90° stop.
- The raised rod stub is necessary for swinghandles, enabling the lower rod passing over the lower cap.
- 4-point cam adapter: with additional linkage.
- For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used. E.g. controlling a switch or defeater-mechanism.

Materials

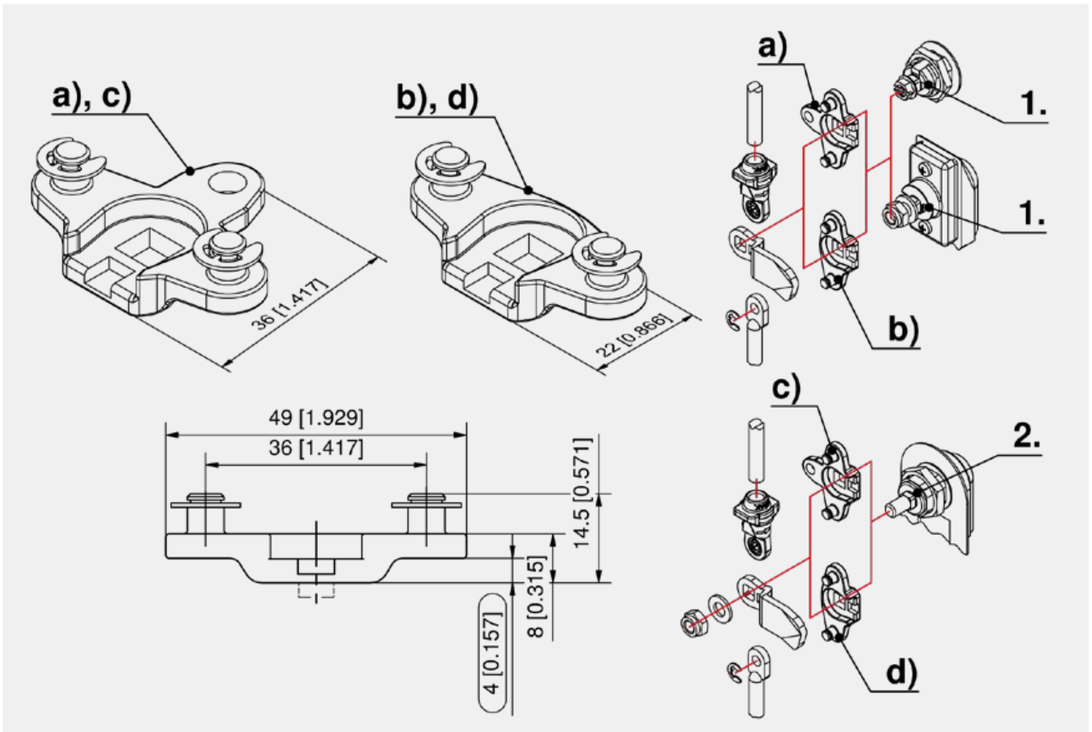
- **3-point cam adapter and 4-point cam adapter:** zinc die, zinc plated

Remarks

incl. 2 c-clips

Note: H-dimension of cam (C) increases by 4mm / 0.157. E.g. cam 200-0418 results in an H-dimension of 22mm / 0.866. Please pay attention to the screw length: screw should enter at least 6mm / 0.236.

1. with stop
2. without stop



Adapter for 3- or 4-point Cam

	Part Number	Stop	2-point cam	3-point cam	4-point cam	Material	Surface
a)	200-9595.00-00000	Yes	Yes	Yes	Yes	zinc die	zinc plated
c)	200-9596.00-00000	Yes	Yes	Yes	No	zinc die	zinc plated
b)	207-9595.00-00000	No	Yes	Yes	Yes	zinc die	zinc plated
d)	207-9596.00-00000	No	Yes	Yes	No	zinc die	zinc plated

3-Point Cam Adapter adjustable

[2-151.01]



Advantages

- 3-point cam adapter adjustable by knurled wheel.
- Tool-less adjustment with knurled wheel.
- RH/ LH application.
- Axial adjustable.
- Usable with standard cams.
- Readjustable at any time.
- 3-point locking system.
- Knurled wheel with thread M10.

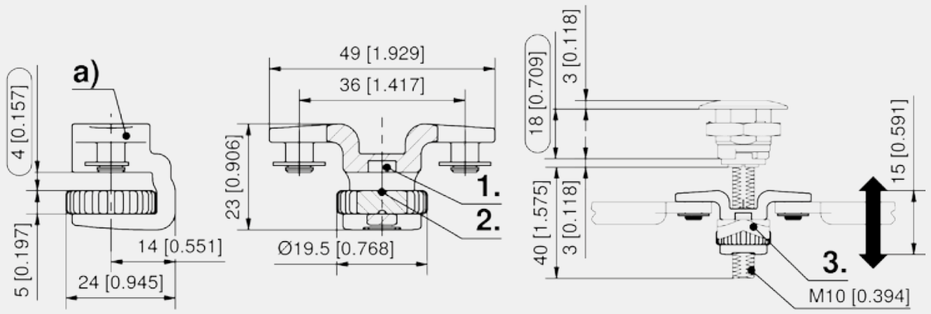
Materials

- **3-point cam adapter:** zinc die, zinc plated

Remarks

Incl. 2 c-clips

1. = Recess for cams with stop
2. = Detent
3. = Cam



Adapter for 3- or 4-point Cam

Part Number	3-point cam	Material	Surface
200-9632.00-00000	Yes	zinc die	zinc plated

3-Point Cam Adapter

[2-151.04]



Advantages

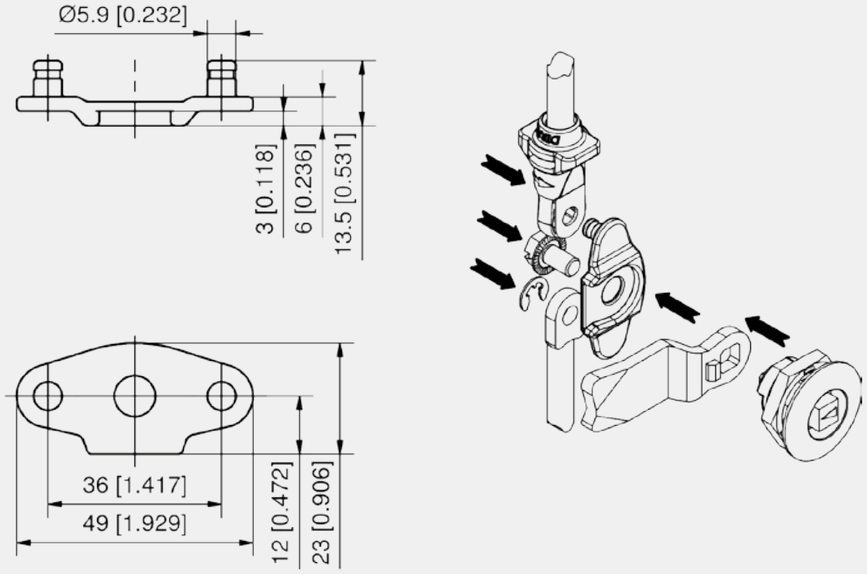
- 3-point cam adapter for cams of product system 1-102.
- The adapter is attached to the back of the cam does not affect the H-dimension.

Materials

- **3-point cam adapter:** zinc die, zinc plated

Remarks

incl. 2 c-clips



3-Point Cam Adapter

Part Number	3-point cam	Material	Surface
207-9589.00-00000	Yes	zinc die	zinc plated

3- and 4-Point Cam Adapter Stainless Steel

[7-106.02]



3- and 4-point cam adapter alternative to 2- or 3-point cam, see product system 7-105

Advantages

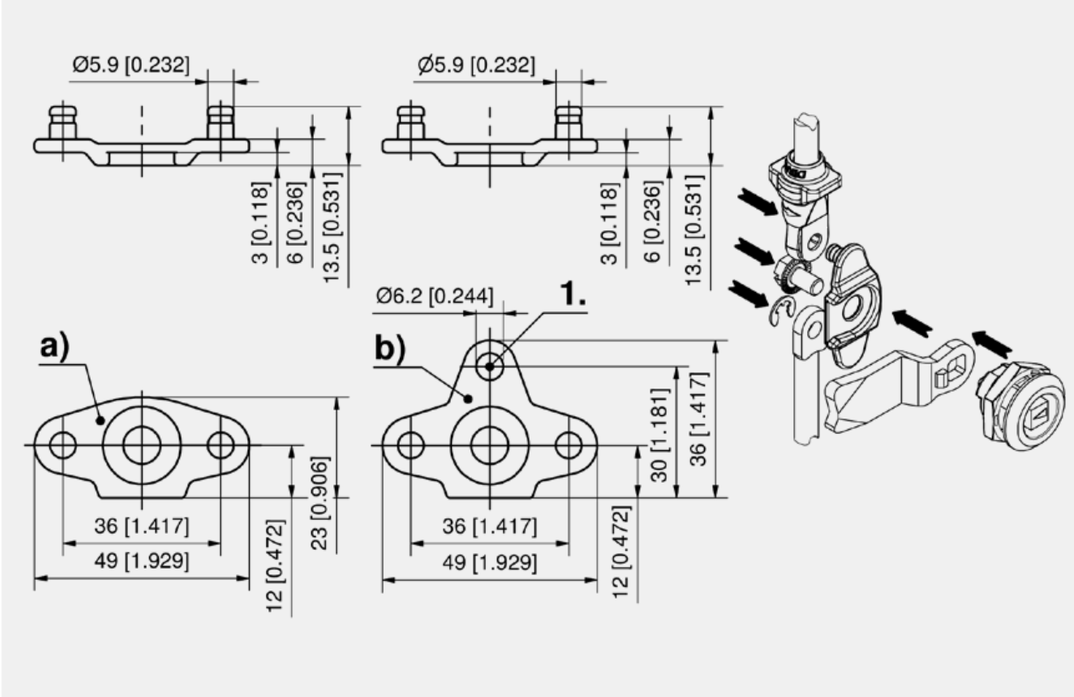
- For use in combination with standard cams see product system 1-102 and 7-080, used for 3- and 4-point latching applications.
- For 4-point application use additional link.
- For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used (e.g. controlling a switch or defeatermechanism).
- The adapter is attached to the back of the cam and does not affect the H-dimension!

Materials

- **Multipoint cam adapter:** stainless steel AISI 304

Remarks

1. = Loop



Adapter for 3- or 4-point Cam

	Part Number	Material	3-point cam	4-point cam
a)	207-9590.00-00000	Stainless Steel	Yes	No
b)	207-9592.00-00000	Stainless Steel	Yes	Yes

Round Rod with Eye

[1-170]

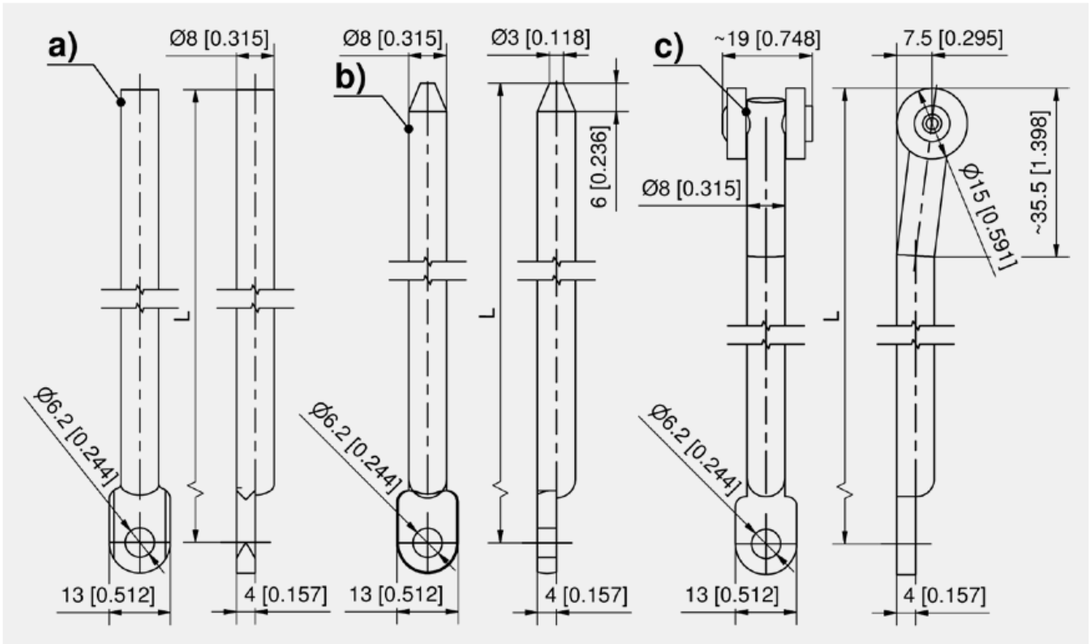


Advantages

- Round rods in standard length and variable lengths with pressed eye.
- With a flat end.
- With chamfered end.
- With rollers, dimension L up to top of roller.
- Round rods in standard length: from stock.
- Round rods in variable lengths: minimum order quantity 200 pieces.

Materials

- **Round rods:** steel, zinc plated



Round Rods

	Part Number	Version	Length	Rod diameter Ø
a)	201-0102.00-00000	with eye	400 mm	8 mm
a)	201-0103.00-00000	with eye	500 mm	8 mm
a)	201-0104.00-00000	with eye	600 mm	8 mm
a)	201-0105.00-00000	with eye	700 mm	8 mm
a)	201-0106.00-00000	with eye	800 mm	8 mm
a)	201-0107.00-00000	with eye	900 mm	8 mm
a)	201-0108.00-00000	with eye	1000 mm	8 mm
a)	201-0109.00-00000	with eye	1100 mm	8 mm
a)	201-0110.00-00000	with eye	1200 mm	8 mm
a)	201-0112.00-Lxxmm	with eye	variable	8 mm
b)	201-0111.00-Lxxmm	with eye and chamfered end	variable	8 mm
c)	201-9006.00-Lxxmm	with eye and rollers	variable	8 mm

Round Rods for Adapter

[1-180]

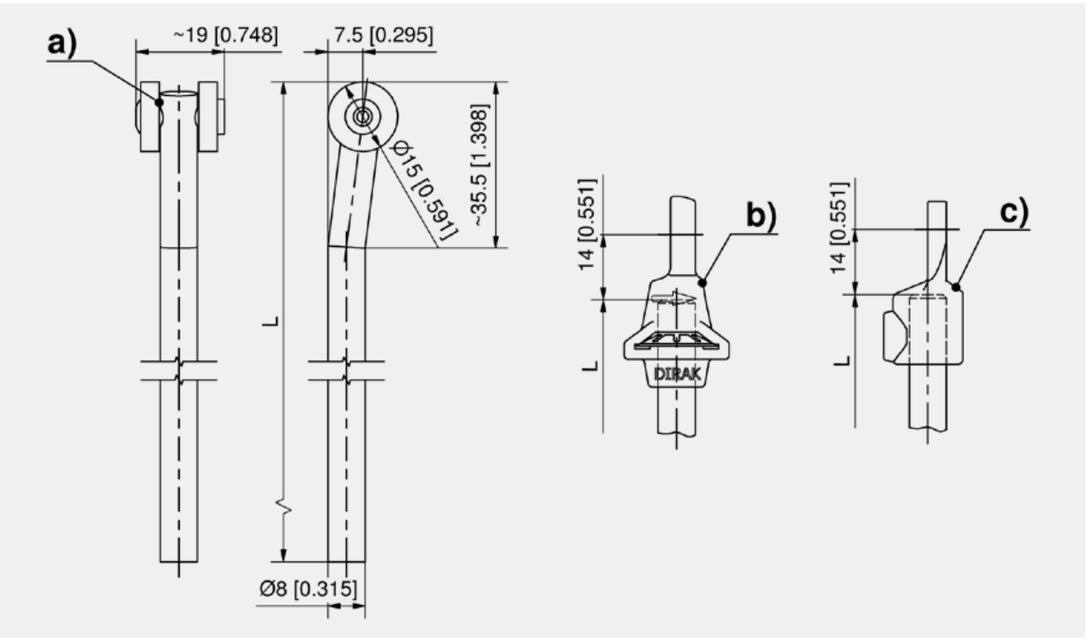


Advantages

- Round rods in standard length and variable lengths for adapter.
- With rollers, dimension L up to top of roller.
- Round rods in standard length: from stock.
- Round rods in variable lengths: minimum order quantity 200 pieces.

Materials

- **Round rods:** steel, zinc plated
- **Rollers:** PA, black
- **Rivet:** steel, zinc plated



Round Rods for adapter

	Part Number	Version	Length	Rod diameter Ø
a)	201-9001.00-00000	with rollers	400 mm	8 mm
a)	201-9020.00-00500	with rollers	500 mm	8 mm
a)	201-9002.00-00000	with rollers	600 mm	8 mm
a)	201-9020.00-00700	with rollers	700 mm	8 mm
a)	201-9003.00-00000	with rollers	800 mm	8 mm
a)	201-9020.00-00900	with rollers	900 mm	8 mm
a)	201-9004.00-00000	with rollers	1000 mm	8 mm
a)	201-9020.00-01100	with rollers	1100 mm	8 mm
a)	201-9005.00-00000	with rollers	1200 mm	8 mm
a)	201-9020.00-Lxxmm	with rollers	variable	8 mm

Accessories
c) 1-181.01 **Adapter zinc die for Round Rods**
b) 1-181 **Adapter PA for Round Rods**

Adapter PA for Round Rods

[1-181]

RoHS WEEE



Advantages

- Quick, tool-less installation, of the adapter on round rods (Ø8mm/0.315) through integrated one-way clamping ring.
- With clip-in installation for 3-point cam, rattle-free fastening.
- The clamping fingers spring into the stud groove.
- The adapter is non-detachable.
- This adapter should be used only with Quarter-Turns or swinghandles that turn a maximum of 90 degrees.

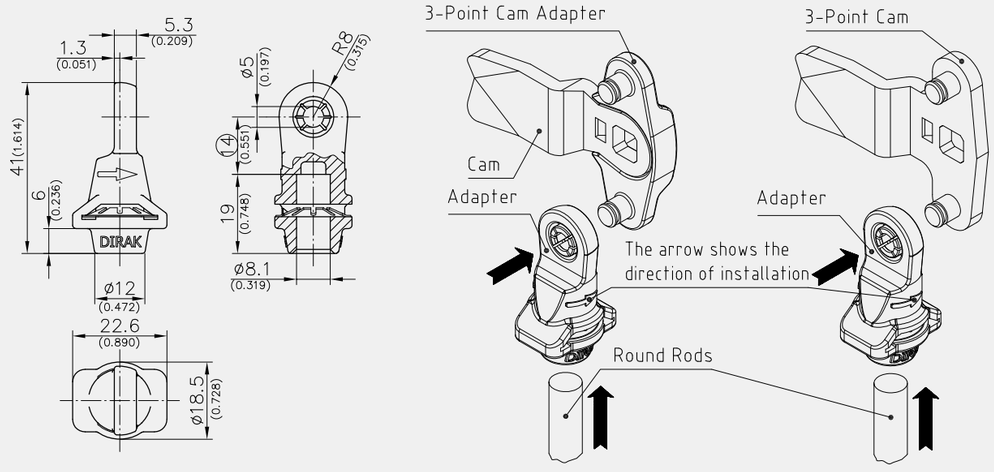
Materials

- **Apter:** PA, black
- **Clamping ring:** spring steel

Remarks

Advantages:

1. Standard length round rods, without eyelets, can be applied.
2. Rods are cut to length (mind the 14mm/0.551).
3. Easy, cost-saving installation without the use of c-clips.
4. No complex or time-consuming installation.



Adapter for Round Rods

Part Number	Fastening type	Quick-fit	Rod diameter Ø
200-9621.00-00000	tool-less	Yes	8 mm

Adapter zinc die for Round Rods

[1-181.01]

RoHS WEEE



Advantages

- Adapter for 2-point and 3-point cams.
- For assembly of round rods (Ø8mm and Ø10mm).
- The round rod is tightened in the adapter.
- The adapter is fixed with a c-clip to the 2-point or 3-point cam.

Materials

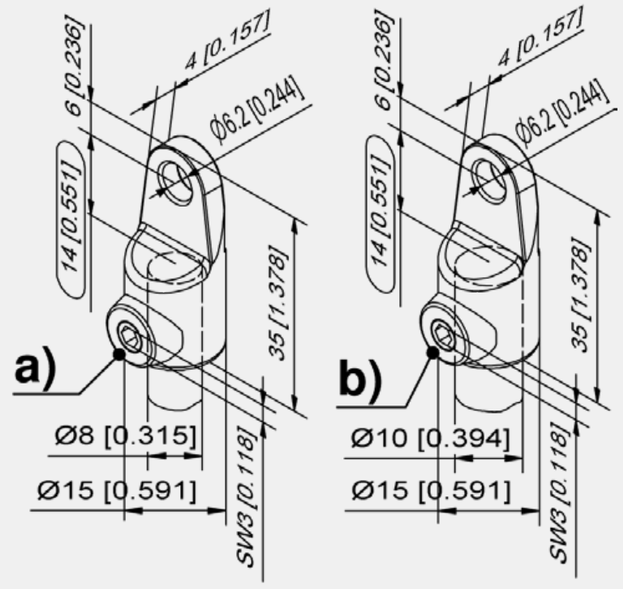
- **Adapter:** zinc die
- **Setscrew:** stainless steel

Remarks

Advantages:

1. Standard length round rods can be ordered without the eye.
2. Round rods can be shortened on request.

(Caution: Please note the 14mm(0.551) difference in length).



Adapter for Round Rods

	Part Number	Rod diameter Ø	Material	Fastening type
a)	200-9601.00-00000	8 mm	zinc die	screw-on
b)	200-9604.00-00000	10 mm	zinc die	screw-on

Round Rods Stainless Steel

[7-106]

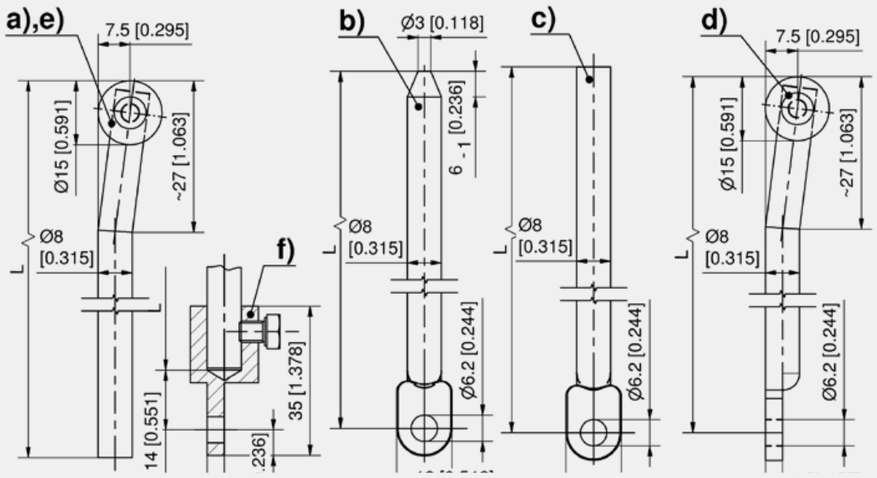


Advantages

- Round rods with standard or customised lengths, different versions.
- Minimum order quantity: 200 pieces.
- Calculation of Rod, see www.dirak.com.
- **Attention:**
- Dimension L measured to top of roller!
- Order example for round rods with eye and rollers, length L=840mm: 201-9026.00-00840

Materials

- **Round rods and rivet:** stainless steel AISI 304
- **Rollers:** PA, black
- **Adapter:** stainless steel AISI 303



Round Rods

	Part Number	Name	Version	Rod diameter Ø
a)	201-9010.00-00000	Round rod 600mm	with rollers	8 mm
a)	201-9011.00-00000	Round rod 700mm	with rollers	8 mm
a)	201-9012.00-00000	Round rod 800mm	with rollers	8 mm
a)	201-9013.00-00000	Round rod 900mm	with rollers	8 mm
a)	201-9014.00-00000	Round rod 1000mm	with rollers	8 mm
a)	201-9015.00-00000	Round rod 1100mm	with rollers	8 mm
a)	201-9016.00-00000	Round rod 1200mm	with rollers	8 mm

Round rods, variable length

	Part Number	Version	Rod diameter Ø
b)	201-0111.04-Lxxmm	with eye and chamfered end	8 mm
c)	201-0112.04-Lxxmm	with eye	8 mm
e)	201-9037.00-Lxxmm	with rollers	8 mm
d)	201-9026.00-Lxxmm	with eye and rollers	8 mm

Adapter for Round Rods

	Part Number	Rod diameter Ø	Material	Fastening type
f)	200-9603.00-00000	8 mm	Stainless Steel	screw-on

Height-adjustable Rod Guide with Knurled Nut

[1-191]



Advantages

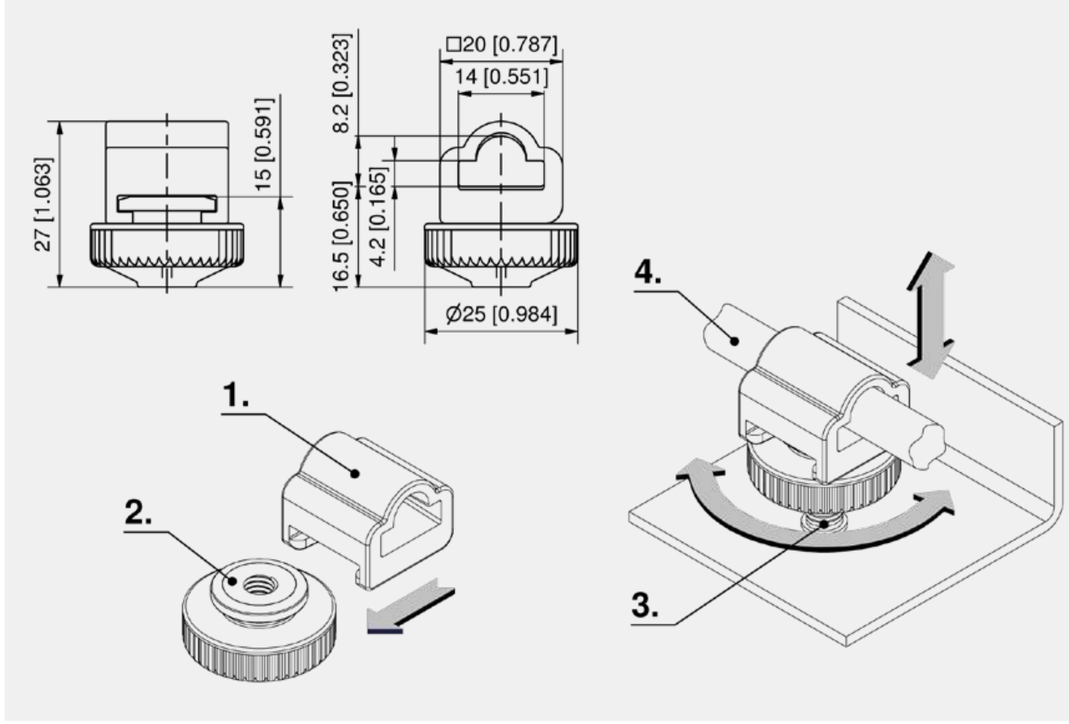
- Rod guide is pushed onto the knurled nut and can be installed therefore pre-assembled.
- Tool-less adjustment with knurled nut.
- Readjustment possible at any time.
- Dismantling of the rod for height adjustment not necessary.
- Usable for studs M6 from 14 to 21mm.
- Adjustment range up to
- max. 8mm.
- RH / LH application.

Materials

- **Rod guide and knurled nut:** PA, black

Remarks

1. = Rod guide
2. = Knurled nut
3. = Stud
4. = Round rod



Rod guide

Part Number	Height adjustable	Adjustment range	Packaging unit
200-9633.00-00000	Yes	max. 8 mm	10 pcs.

Rod Guide, height adjustable Stainless Steel [7-912]



Advantages

- Rod guide with adjustable height for 8 mm round rods, to compensate production tole-rances, or if sealing has set.
- Slotted insert (max.12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6 by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- PA version see product-system 1-192.

Materials

- **Rod guide:** stainless steel AISI 316
- **Adjusting screw:** stainless steel AISI 303
- **C-clip and wave washer:** stainless steel

Remarks

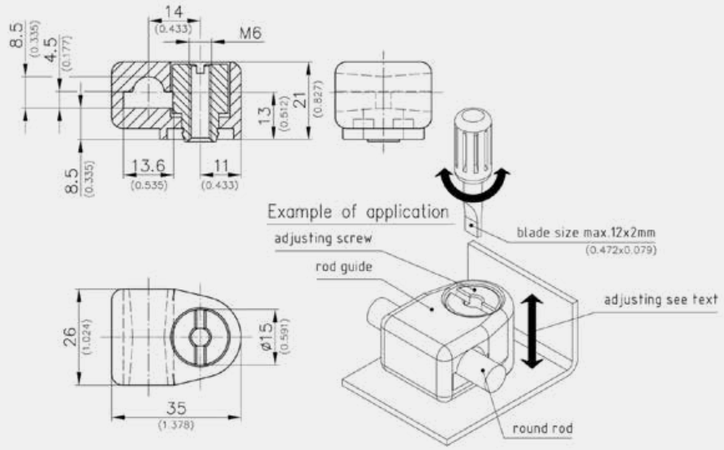
Adjustment depending on the lenght of the weld stud:

M6 x 14 +5/-1 mm,

M6 x 16 +5/-3 mm,

M6 x 18 +5/-5 mm,

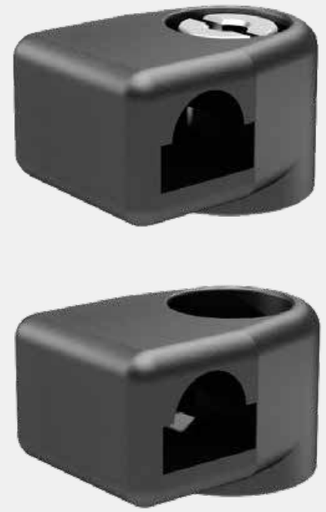
M6 x 20 +5/-7 mm



Rod guide

Part Number	Version	Fastening type	Height adjustable	Material	Adjustment range
200-9623.00-00000	RS	screwed on	Yes	Stainless Steel	max. + 5 mm

Rod Guides [1-192]



Advantages

- Rod guides for 8mm round rods.
- Version a) adjustable in height to compensate production tolerances or if sealing has set.
- The rod guide can be adjusted in height by a slotted insert (max.12 x 2 mm).
- With this rod guide even completely pre-assembled rod-latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6, by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- Stainless steel version see product system 7-912.

Materials

- **Rod guide:** PA, black
- **Adjusting Sleeve:** steel, zinc plated
- **Snap ring:** stainless steel

Remarks

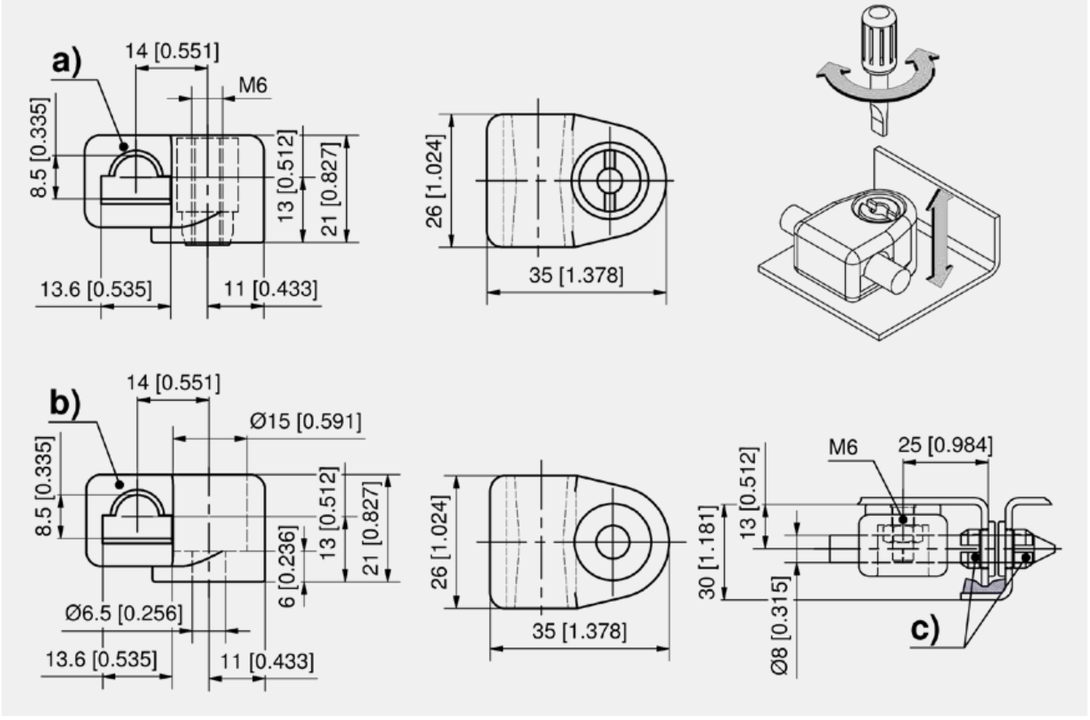
Adjustment depending on the lenght of the weld stud:

M6 x 14 +5/-1mm,

M6 x 16 +5/-3mm,

M6 x 18 +5/-5mm,

M6 x 20 +5/-7mm



Rod guide

	Part Number	Height adjustable	Adjustment range	Version	Fastening type	Material
a)	200-9615.00-00000	Yes	max. + 5 mm	RS	screwed on	PA
b)	200-3606.03-00000			RS	screwed on	PA

Accessories
c) 203-0605.03-00000 **Bushings**

Rod Guides for 8mm Round Rods

[1-190]

RoHS WEEE



Advantages

- With molded thread.
- Screwed onto a weld stud or weld-on screw.
- The round shape of the hole allows free swivelling even with very short rods.

Materials

- **Rod guide:** PA, black

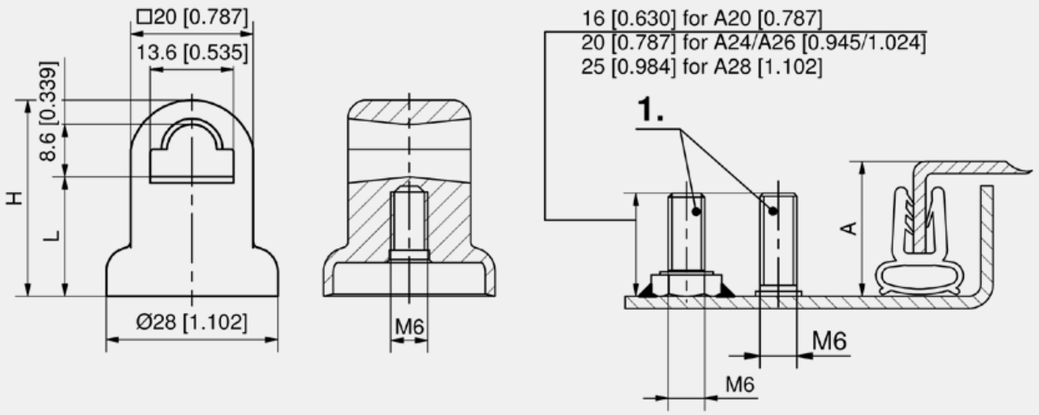
Remarks

1. = Length of the weld studs or screws M6:

16mm for A20,

20mm for A24/A26,

25mm for A28



Rod guide

Part Number	Version	Height H	Length L	A = bending	Fastening type
200-3623.51-00000	Round rod	32 mm	20 mm	A20	screwed on
200-3624.51-00000	Round rod	36 mm	24 mm	A24	screwed on
200-3625.51-00000	Round rod	38 mm	26 mm	A26	screwed on
200-3626.51-00000	Round rod	40 mm	28 mm	A28	screwed on

Rod Guide RS

[1-193]

RoHS WEEE



Advantages

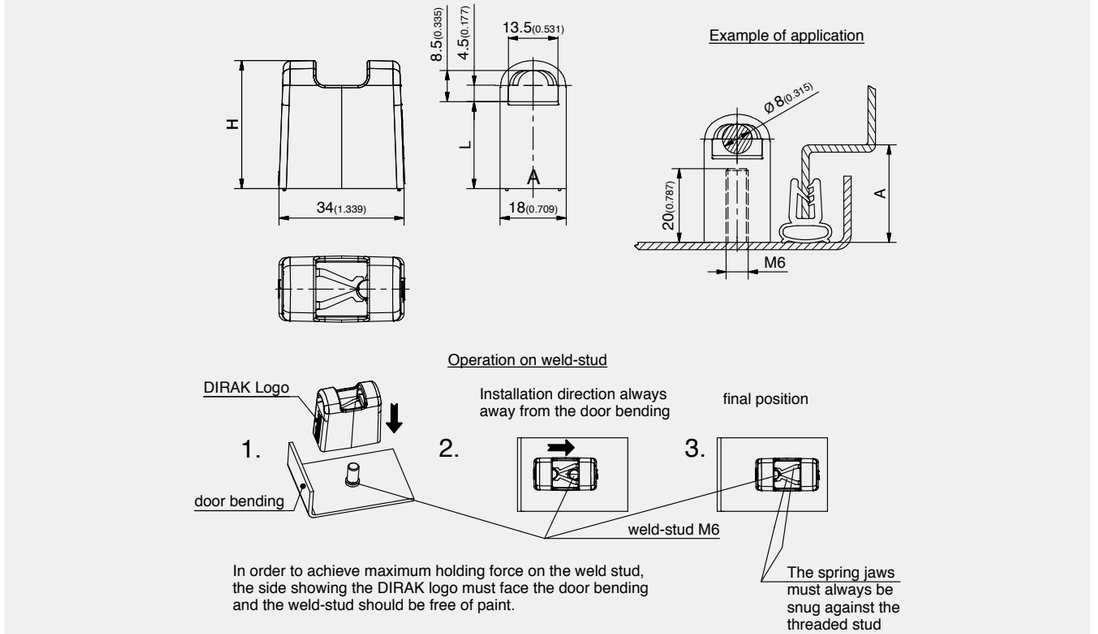
- Rod Guide for 8mm (0.315) round rods for installation without tools on weld-stud M6x20mm.
- The rod guide has to be placed over the weld stud and then pushed onto the thread until a "click" is audible. It is locked now in the final position.
- The rod guide must be installed as shown in the figure.
- Visual inspection possible from above through openings.
- The rod guide can be removed from the threaded stud by inserting a flat head screwdriver, pushing the jaws apart and sliding the rod guide out.

Materials

- **Rod guide:** PA6, black

Remarks

Completely pre-assembled rod latches (including 3-point cam, round rod, rollers and rod guide) can also be mounted with this rod guide, as the rod guide is simply pushed over the weld stud.



Rod guide

	Part Number	A = bending	Height H	Length L	Version	Fastening type	Material
a)	200-3616.54-00000	A24	35 mm	23.5 mm	Round rod	quick assembling	PA
b)	200-3617.54-00000	A26	37 mm	25.5 mm	Round rod	quick assembling	PA
c)	200-3618.54-00000	A28	39 mm	27.5 mm	Round rod	quick assembling	PA

Cam Adapter and Spacer

[1-263]

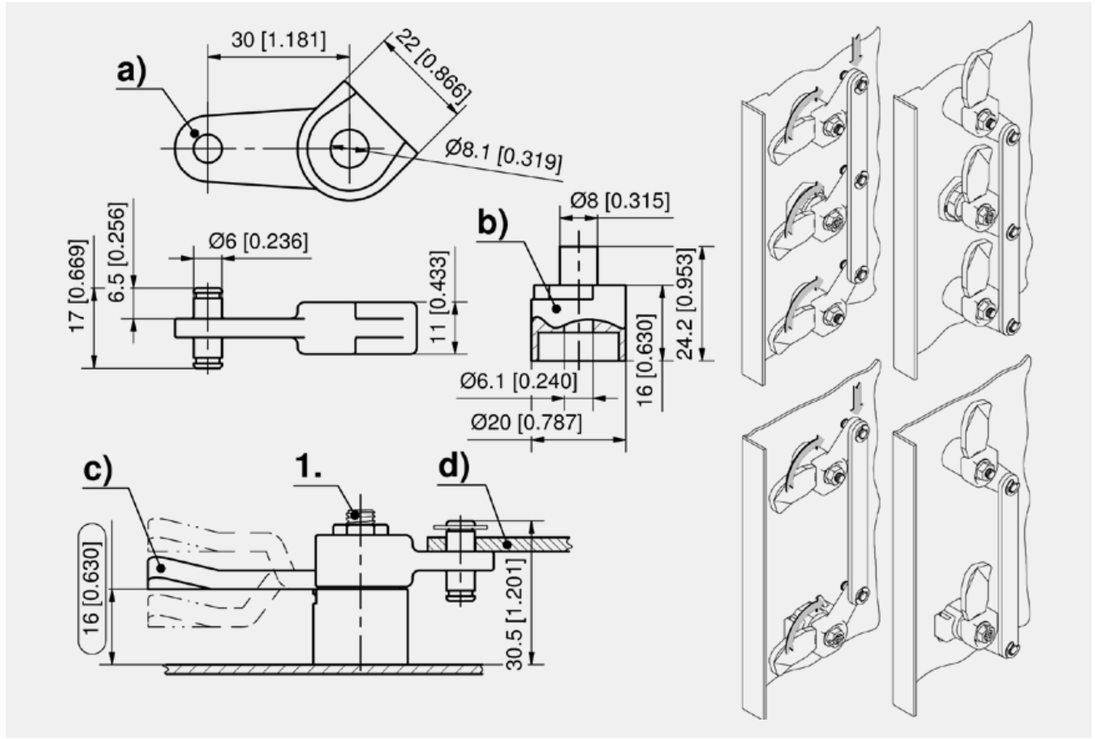


Advantages

- For designing multipoint locking systems.
- RH / LH application.
- Flexible use on Quarter-Turns with 18 mm housings or swinghandles.
- As the examples show, the controlling Quarter-Turn can be installed in different positions.
- The driving rod actuates all cams simultaneously.
- (1.) Assembly spacer on weld-stud M6 x 32.
- d) For driving rods please contact DIRAK.
- H-dimension (18) only for sheet thickness 2 mm.

Materials

- **Cam Adapter and Spacer:** zinc die, zinc plated
- **C-clip:** steel, zinc plated



Cam Adapter

	Part Number	Name	Packaging unit
a)	100-9033.00-00000	Cam adapter (incl. c-clip)	10 pcs.
b)	200-2811.35-00000	Spacer	10 pcs.

Accessories
c) 1-102 **Cams L35/45 steel**
c) 1-261 **Cams with Ramp**
c) 1-262 **Cam variable**

Slam-Latch

[1-300]



Advantages

- Slam-latch for doors and panels.
- Slam-latch for doors and panels, can be opened by key or handle.
- The slam-latch is screwed onto the latch support.
- Which is either screwed or, in case of heavy application, welded to the door additio-naly.
- If assembled without insert it can be opened with tapered square key.
- The slam bolt has a slam feature.

Materials

a)

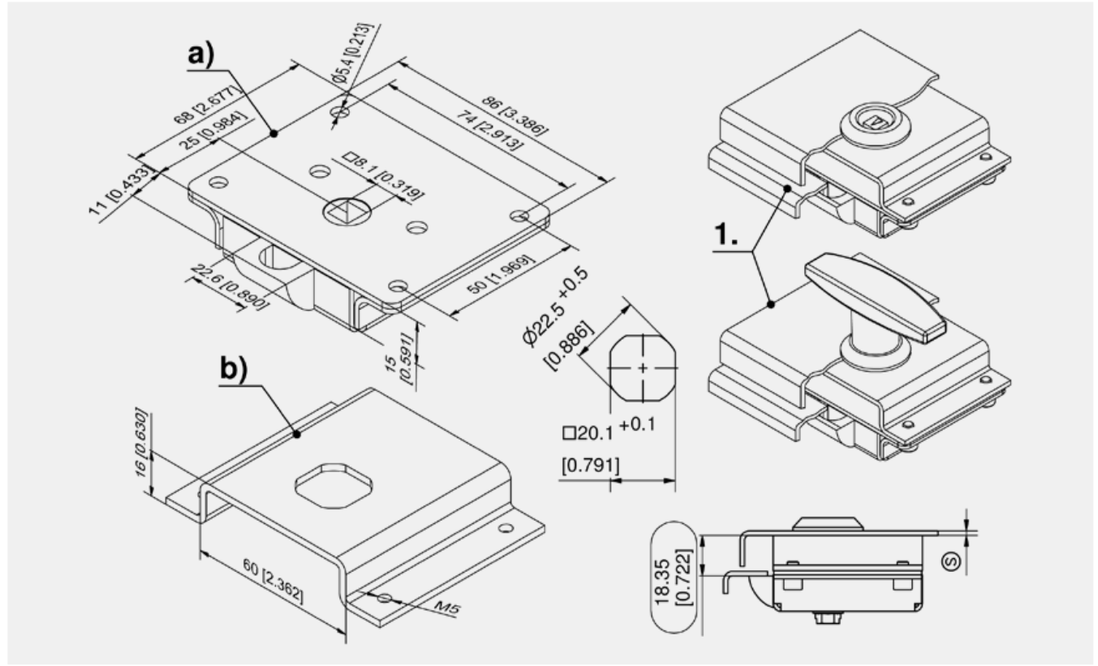
- **Housing:** steel, zinc plated
- **Bolt:** zinc die, zinc plated

b)

- **Lock support:** steel, zinc plated

Remarks

1. Examples of application



Slam-Latch

	Part Number	Installation type
a)	229-9101.00-00000	screw- / weld-on

Lock Support for Slam Latch

	Part Number	Name	Material	Surface
b)	229-0501.00-00000	Lock Support	steel	zinc plated

Accessories
1-101 **Inserts Pr20.1**
1-100 **Quarter-Turn Pr20.1 L18**
1-130 **Quarter-Turn with Wing Knob Pr20.1 L18**

Accessories
1-140 **Quarter-Turn with T-Handle Pr20.1 L18**
1-150 **Quarter-Turn with L-Handle Pr20.1 L18**
6-040 **Serrated Screws**

Rod Latch RS for Bending 20/26

[1-400]



for Quarter-Turn cutout

Advantages

- For cutout Pr 20.1.
- Heavy duty version.
- RH/ LH application.
- In combination with lock support for 20 or 26mm bending.
- Escutcheon with insert PS 1-430.01.
- T- and L-handles PS 1-430.
- Swinghandles PS 2-300.

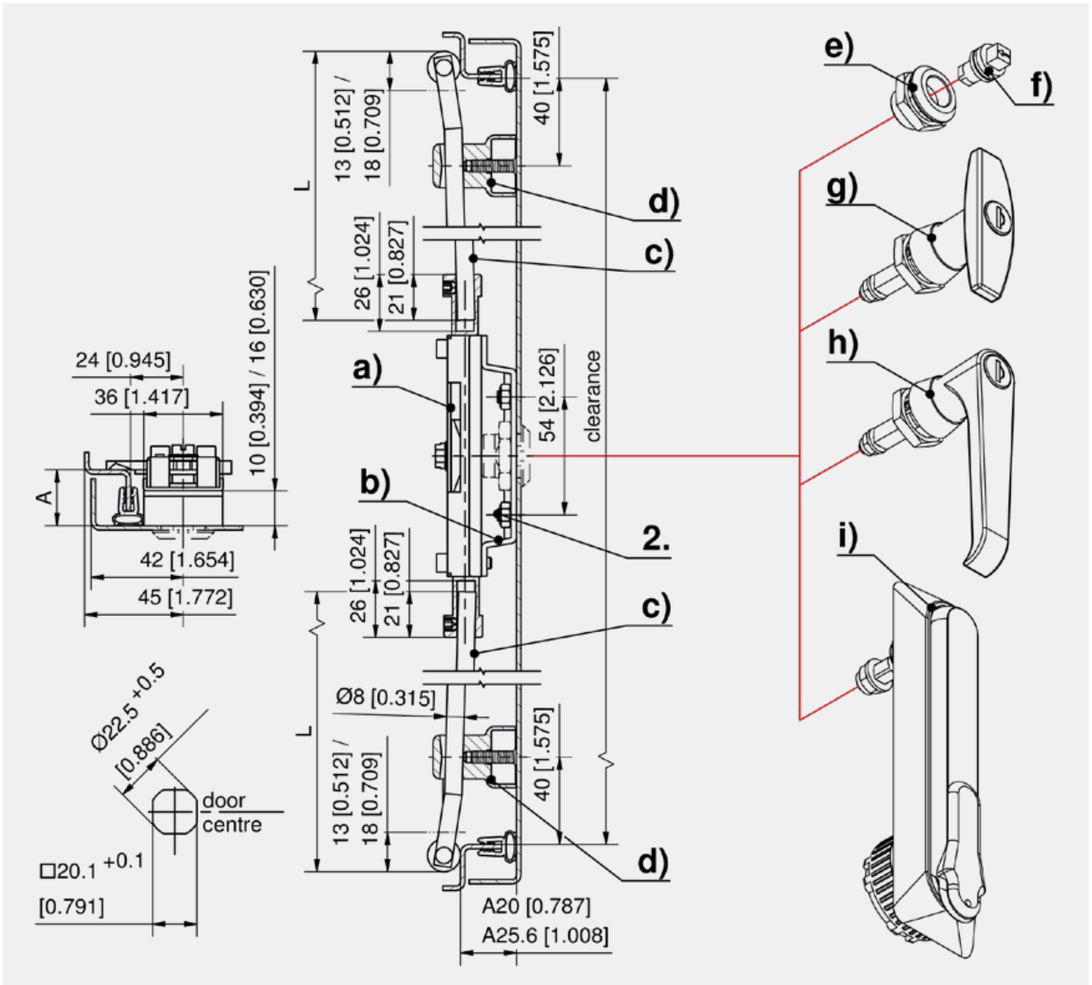
Materials

- a) **Rod Latch:** steel, zinc plated and zinc die
- b) and b1) **Lock support:** steel, zinc plated
- c) **Round rods:** steel, zinc plated
- d) **Rod Guide:** PA, black
- e) and f) **Escutcheon and insert:** zinc die, chrome plated
- g) and h) **T- and L-handles:** zinc die, chrome plated or black
- i) **Swinghandle:** PA, black or zinc die, black

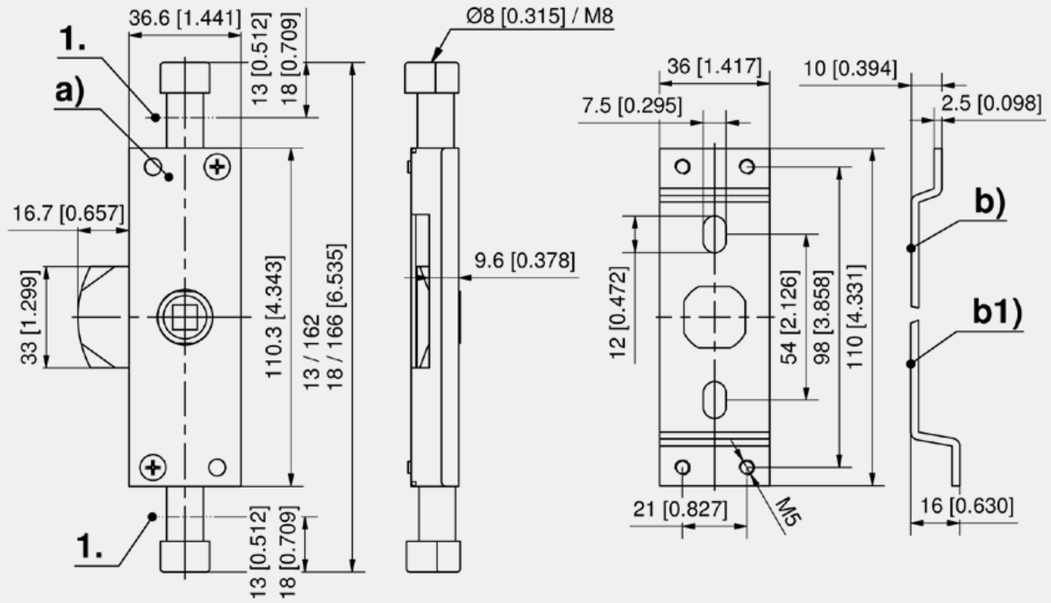
Remarks

1. stroke

2. For painted doors and bolted lock, an M6x8 weld-stud with nut is required for the earthing.



Quarter-Turns Accessories



Rod latch for round rods

	Part Number	Version	Stroke	Threaded size rod latch	Rod diameter Ø	Installation type
a)	235-9001.00-00000	RH	13 mm		8 mm	screw- / weld-on
a)	235-9002.00-00000	LH	13 mm		8 mm	screw- / weld-on
a)	235-9003.00-00000	RH	18 mm		8 mm	screw- / weld-on
a)	235-9004.00-00000	LH	18 mm		8 mm	screw- / weld-on
a)	235-9005.00-00000	RH	13 mm	M8	8 mm	screw- / weld-on
a)	235-9006.00-00000	LH	13 mm	M8	8 mm	screw- / weld-on
a)	235-9007.00-00000	RH	18 mm	M8	8 mm	screw- / weld-on
a)	235-9008.00-00000	LH	18 mm	M8	8 mm	screw- / weld-on

	Accessories
g)-h)	1-430 **T- and L-Handles for Rod Latches**
i)	2-300 **Swinghandle RS 130 for Rod Latch**
d)	1-192 **Rod Guides**
d)	1-193 **Rod Guide RS**
d)	1-190 **Rod Guides for 8mm Round Rods**
d)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
c)	1-170 **Round Rod with Eye**
c)	1-180 **Round Rods for Adapter**
b1)	235-1002.00-00000 **Lock support A26**
c)	201-0801.00-01000 **Round rod, M8 x 1000mm**
b)	235-1001.00-00000 **Lock support A20**
e)-f)	1-430.01 **Escutcheon and Inserts**

Pressure-Tight Door Furniture for 18mm stroke [1-450]

RoHS WEEE



Advantages

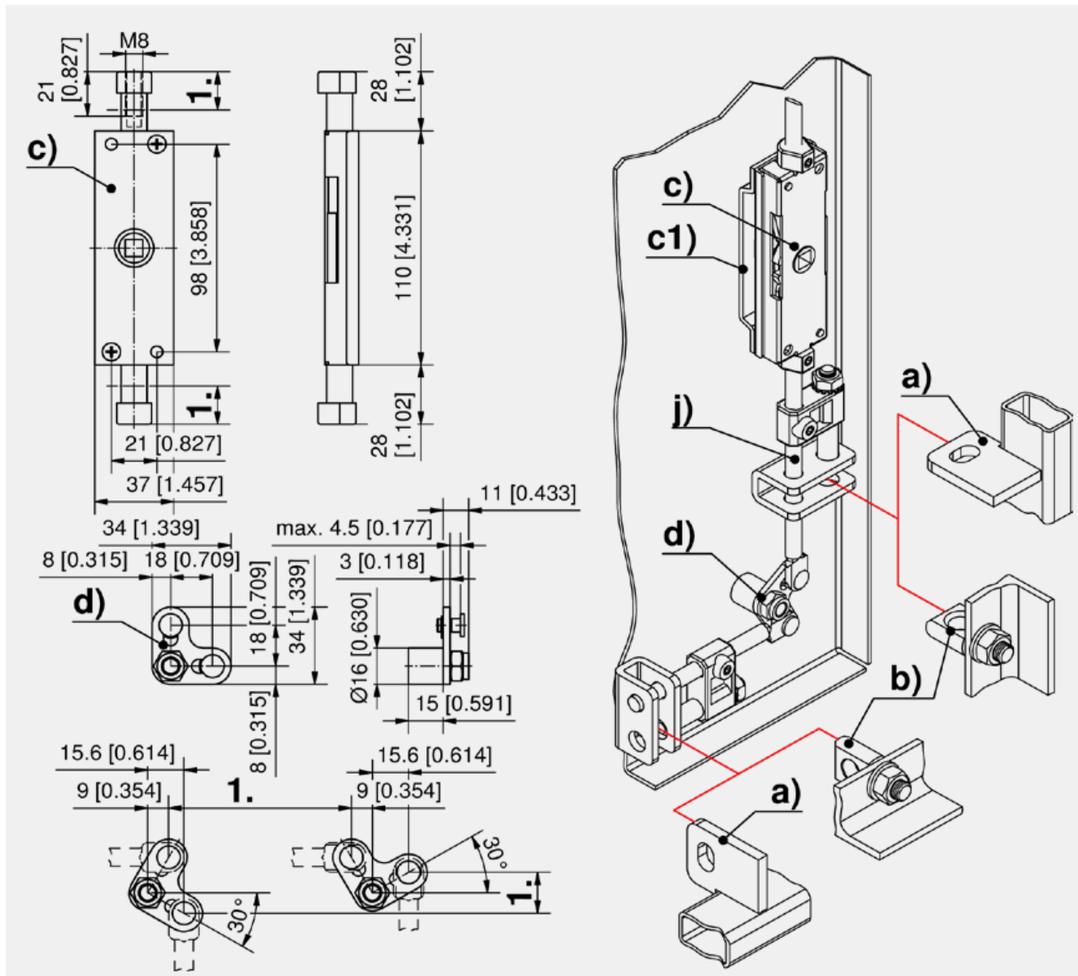
- Unit for pressure-tight doors.
- For high and medium voltage distribution boards.
- Controlled by a rod latch 18mm stroke.
- For insert, T- and L-handles and swinghandles RS 130.
- Suitable for round rod Ø8mm.
- Redirection usable.

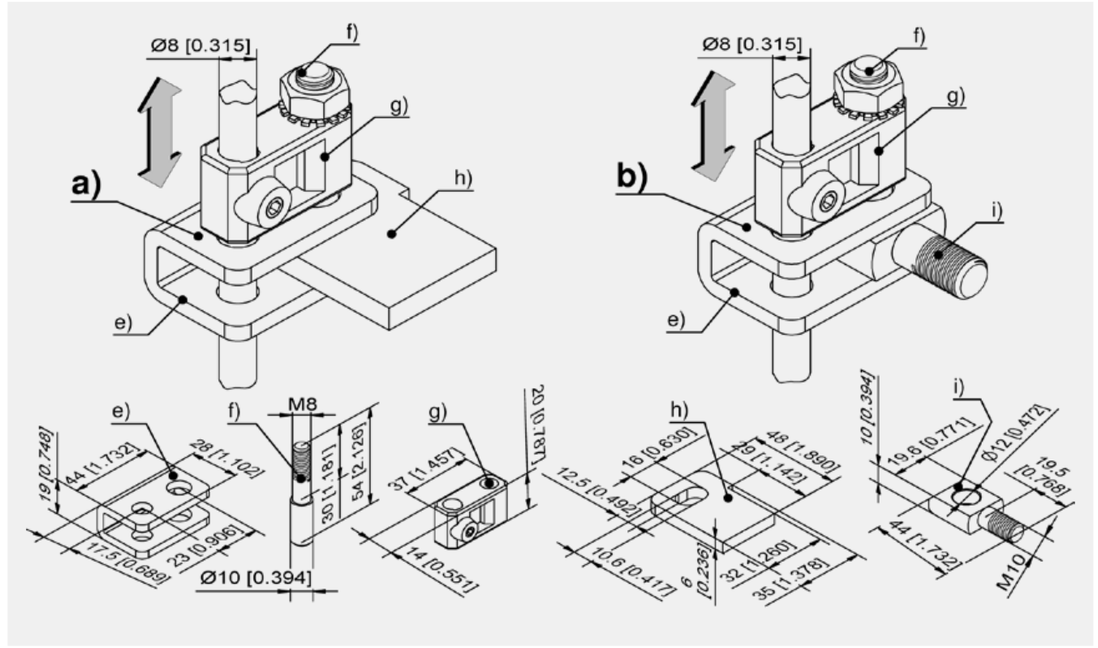
Materials

- **Connecting pin and fixing pieces:** steel, zinc plated
- **Fastener:** zinc die
- **Weld-on U-bracket:** steel, untreated
- **Frame-part eye weld-on:** steel, untreated
- **Frame-part eye screw-on:** steel, zinc plated
- **Redirection, Spacer, Carrier, Securing nut and c-clip:** steel, zinc plated

Remarks

1. = stroke 18mm





Pressure-tight door furniture complete

	Part Number	Version	Fastening type	Stroke
a)	215-9001.00-00000	Frame-part eye weld-on	weld-on	18 mm
b)	215-9002.00-00000	Frame-part eye screw-on	screw-on	18 mm

Specific accessories

d) 215-9005.00-00000 **Redirection for pressure-tight door furniture**
g) 215-9101.00-00000 **Fastener**
f) 215-0501.00-00000 **Locking pin**
i) 215-0401.00-00000 **Frame-part eye**
h) 215-0201.00-00000 **Frame-part eye**
e) 215-0101.00-00000 **U-bracket, series 235**
1-430.01 **Escutcheon and Inserts**

Accessories

c) 235-9014.00-00000 **Rod Latch, LH version**
c) 235-9013.00-00000 **Rod Latch, RH version**
c1) 235-1002.00-00000 **Lock support A26**
j) 201-0801.00-01000 **Round rod, M8 x 1000mm**
c1) 235-1001.00-00000 **Lock support A20**

Pressure-Tight Door Furniture for 24mm Stroke [1-450.01]

RoHS WEEE

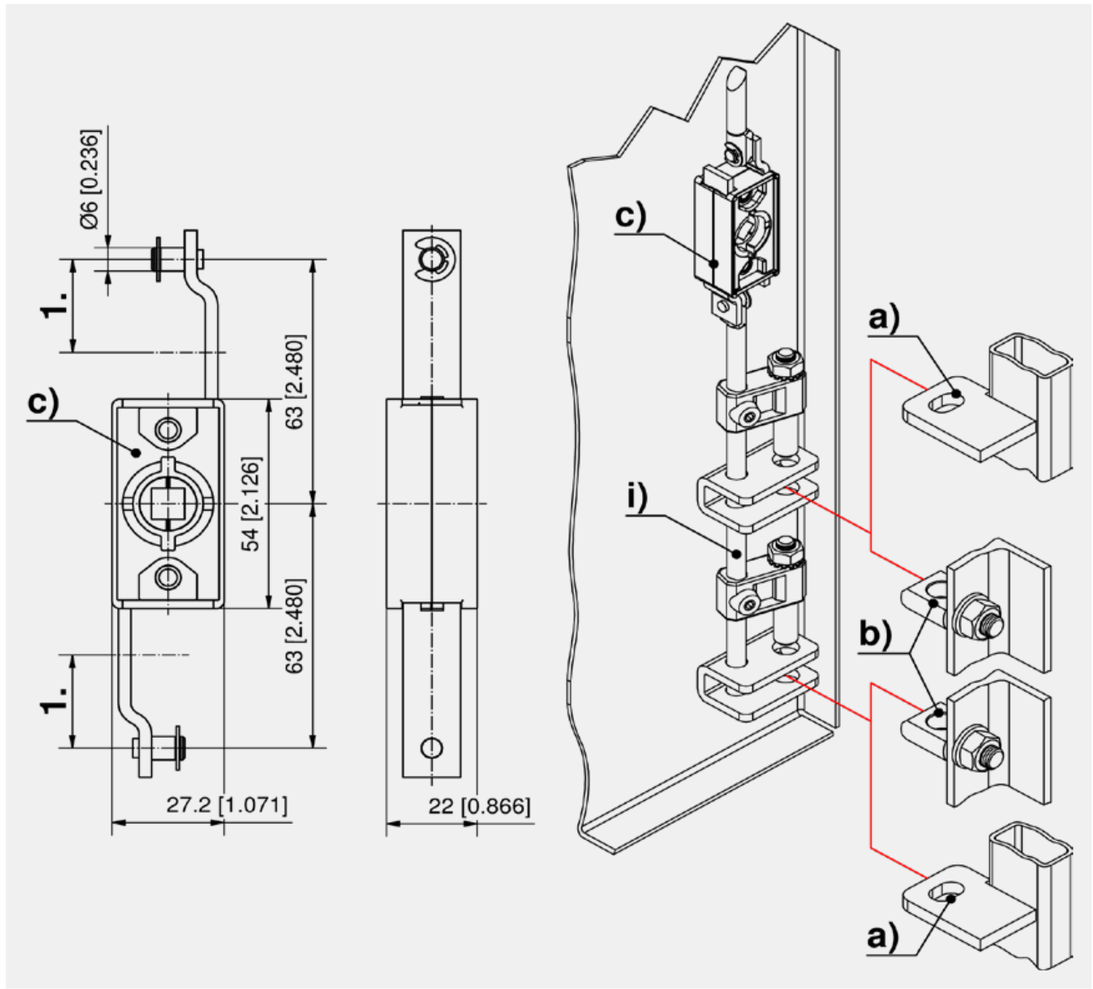


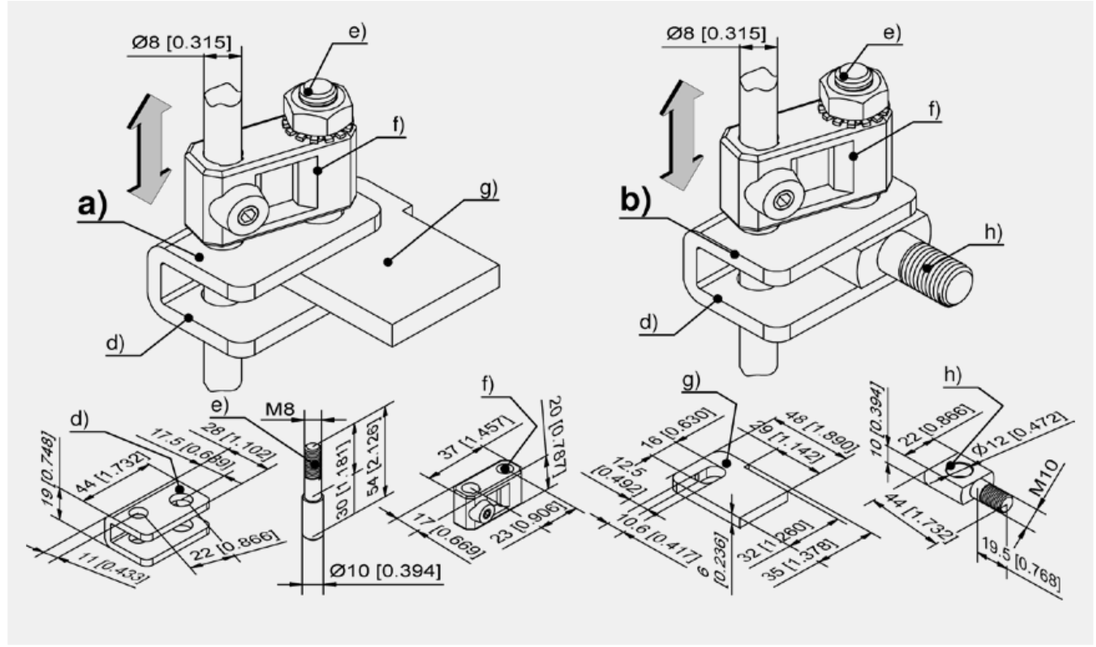
Advantages

- Unit for pressure-tight doors.
- For high and medium voltage distribution boards.
- Controlled with rod latch 24mm stroke.
- For insert, T- and L-handles and swinghandles RS 130.
- Suitable for round rods Ø8mm.

Materials

- **Connecting pin and fixing pieces:** steel, zinc plated
- **Fastener:** zinc die
- **Weld-on U-bracket:** steel, untreated
- **Frame-part eye weld-on:** steel, untreated
- **Frame-part eye screw-on:** steel, zinc plated





Pressure-tight door furniture complete

	Part Number	Version	Stroke	Fastening type
a)	215-9003.00-00000	Frame-part eye weld-on	24 mm	weld-on
b)	215-9004.00-00000	Frame-part eye screw-on	24 mm	screw-on

Accessories
3-101 **Escutcheons and Inserts**
i) 1-170 **Round Rod with Eye**
i) 1-180 **Round Rods for Adapter**
c) 208-9001.00-00000 **Rod Latch**
f) 215-9101.00-00000 **Fastener**
e) 215-0501.00-00000 **Locking pin**
h) 215-0401.00-00000 **Frame-part eye**
g) 215-0201.00-00000 **Frame-part eye**
d) 215-0101.00-00001 **U-bracket, series 208**

Rod Latch

[1-405]



for profile-cylinder

Advantages

- For cutout Pr 20.1 and profile cylinder.
- Heavy duty version.
- RH/ LH application.
- In combination with lock support for 20 or 26mm bending.
- Function: By turning the key in the profile cylinder, the insert or handle is released. After release, the rod latch can be opened or closed by the insert or the handle. The key in the profile cylinder can only be removed in the locked state.
- Escutcheon with insert PS 1-430.01.
- T-handles PS 1-430.

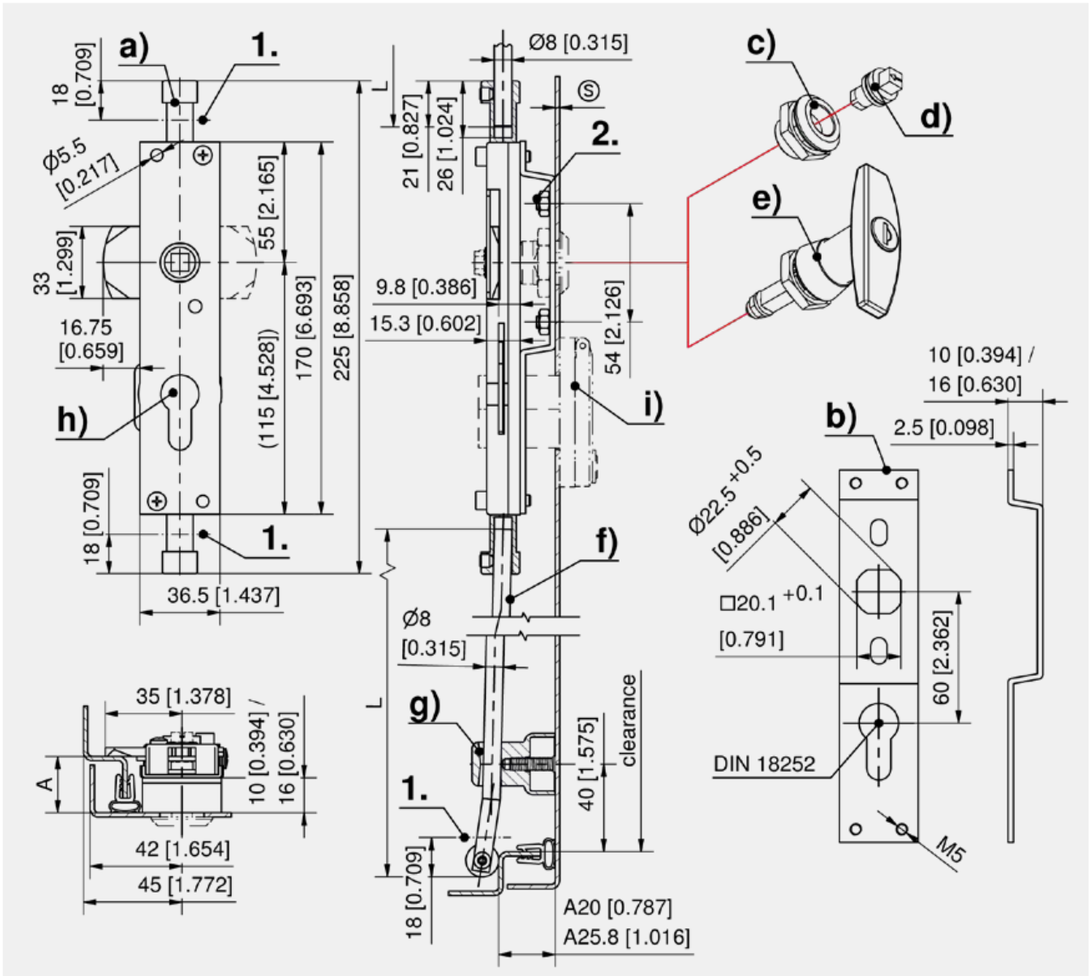
Materials

- a) **Rod Latch:** steel, zinc plated and zinc die
- b) **Lock support:** steel, zinc plated
- c) **Insert:** zinc die, chrome plated
- d) **Escutcheon:** zinc die, chrome plated
- g) **Rod Guide:** PA, black
- f) **Round rods:** steel, zinc plated

Remarks

1. Stroke 18

2. For painted doors and bolted lock, an M6x8 weld stud with nut is required for the earthing.



Rod latch for insert and profile cylinder for bending 20/26

	Part Number	Version	Stroke	Rod diameter Ø	Installation type
a)	235-9401.00-00000	RH	18 mm	8 mm	screw- / weld-on
a)	235-9402.00-00000	LH	18 mm	8 mm	screw- / weld-on

Lock Support

	Part Number	Name
b)	235-1006.00-00000	Lock support A26
b)	235-1005.00-00000	Lock support A20

	Accessories
i)	6-115 **Polyamide Lock Cover**
e)	1-430 **T- and L-Handles for Rod Latches**
g)	1-192 **Rod Guides**
g)	1-193 **Rod Guide RS**
g)	1-190 **Rod Guides for 8mm Round Rods**
g)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
f)	1-170 **Round Rod with Eye**
f)	1-180 **Round Rods for Adapter**
h)	211-9004.00-00000 **DIRAK Profile-cylinder**
h)	211-9003.00-00000 **DIRAK Profile-cylinder**
c)-d)	1-430.01 **Escutcheon and Inserts**

Rod Latch

[1-410]



Without cam

Advantages

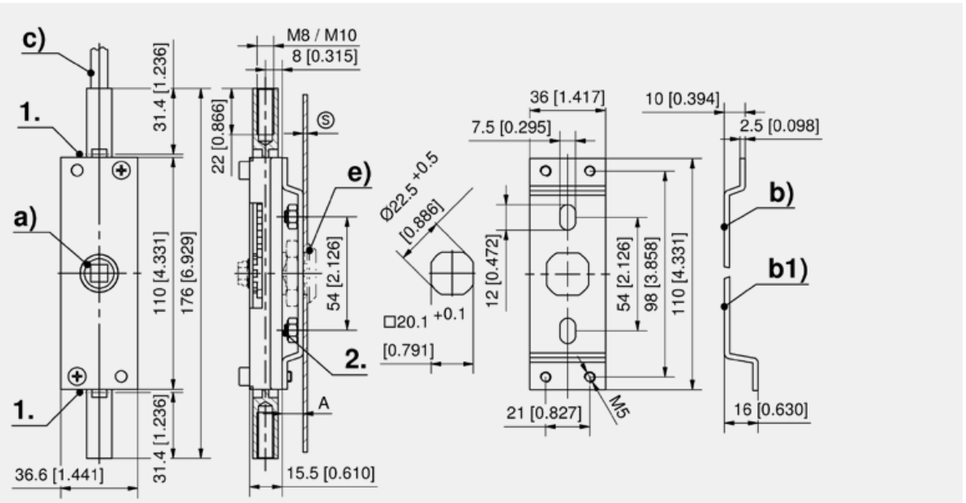
- For cutout Pr 20.1.
- Heavy duty version.
- Closing rotation 180°.
- Stroke 31,4 mm.
- RH and LH version.
- In combination with lock support for 20 or 26mm bending.
- Escutcheon with insert PS 1-430.01.
- T- und L-handles PS 1-430.
- Swinghandles RS 130 see PS 2-300.

Materials

- **Housing:** steel, zinc plated
- **Gear and connectors:** zinc die, chrome plated

Remarks

1. Stroke 31,4 2. For painted doors and bolted lock, an M6 x 8 weld stud with nut is required for the earthing



Rod latch, rod connection M8

	Part Number	Version	Stroke	Rod diameter Ø	Installation type
a)	235-9009.00-00000	RH	31.4 mm	8 mm	screw-on
a)	235-9010.00-00000	LH	31.4 mm	8 mm	screw-on

Rod latch, rod connection M10

	Part Number	Version	Stroke	Rod diameter Ø	Installation type
a)	235-9011.00-00000	RH	31.4 mm	10 mm	screw-on
a)	235-9012.00-00000	LH	31.4 mm	10 mm	screw-on

Accessories

e)	1-430 **T- and L-Handles for Rod Latches**
e)	2-300 **Swinghandle RS 130 for Rod Latch**
d)	1-192 **Rod Guides**
d)	1-193 **Rod Guide RS**
d)	1-190 **Rod Guides for 8mm Round Rods**
d)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
b1)	235-1002.00-00000 **Lock support A26**
b)	235-1001.00-00000 **Lock support A20**
e)	1-430.01 **Escutcheon and Inserts**

Specific accessories

201-0801.00-01000 **Round rod, M8 x 1000mm**
201-1001.00-01000 **Round rod, M10 x 1000mm**

Escutcheon and Inserts

[1-430.01]



Advantages

- Escutcheon a, a1: for all inserts.
- Escutcheon b, b1: according to DIN 43668, double bit key for cell- or cabinet doors of electrical switchgears. The double bit key is removable only in closed position.
- Insert: double bit with 3mm (e) oder 5mm pin (e1).
- RH / LH application.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.
- Please configure the escutcheon with insert and rod latch 1-400, 1-405, 1-410 and 1-415.

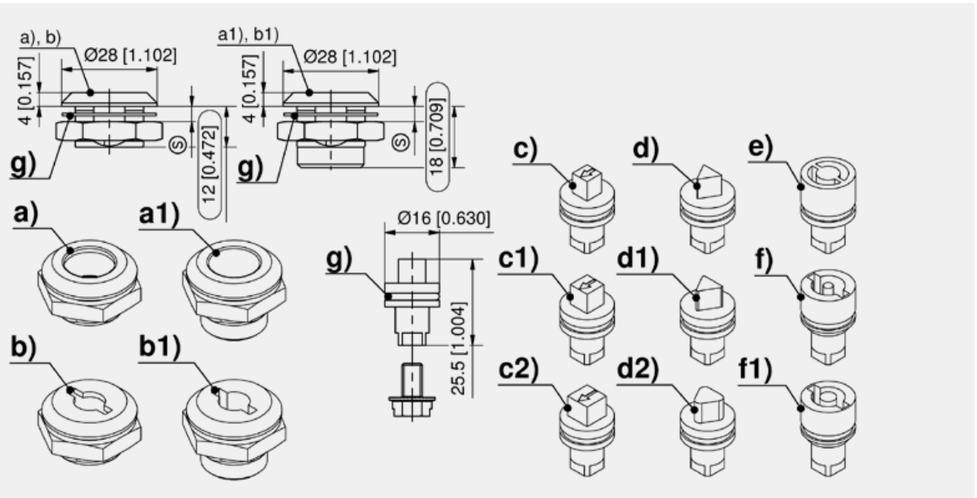
Materials

Escutcheon and inserts: zinc die, chrome plated

Sealing kit: NBR, black

Remarks

S = max. 4mm



Escutcheon

	Part Number	Name	Material	Surface
a)	235-9203.00-00000	Escutcheon A 20, universal	zinc die	chrome plated
a1)	235-9204.00-00000	Escutcheon A 26, universal	zinc die	chrome plated
b)	235-9201.00-00000	Escutcheon A 20 only for double bit	zinc die	chrome plated
b1)	235-9202.00-00000	Escutcheon A 26, only for double bit	zinc die	chrome plated

Inserts with screw M6x10

	Part Number	Insert	Material	Surface
c)	235-9101.00-00000	Square 6mm	zinc die	chrome plated
c1)	235-9102.00-00000	Square 7mm	zinc die	chrome plated
c2)	235-9103.00-00000	Square 8mm	zinc die	chrome plated
d)	235-9104.00-00000	Triangular 6.5mm CNOMO	zinc die	chrome plated
d1)	235-9105.00-00000	Triangular 7mm	zinc die	chrome plated
d2)	235-9106.00-00000	Triangular 8mm	zinc die	chrome plated
e)	235-9109.00-00000	Daimler Benz type	zinc die	chrome plated
f)	235-9107.00-00000	Double bit 3mm pin	zinc die	chrome plated
f1)	235-9108.00-00000	Double bit 5mm pin	zinc die	chrome plated

Function extension

g)	209-9002.00-00000 **Sealing kit IP65 for 200-Quarter-Turns**

T- and L-Handles for Rod Latches

[1-430]



Advantages

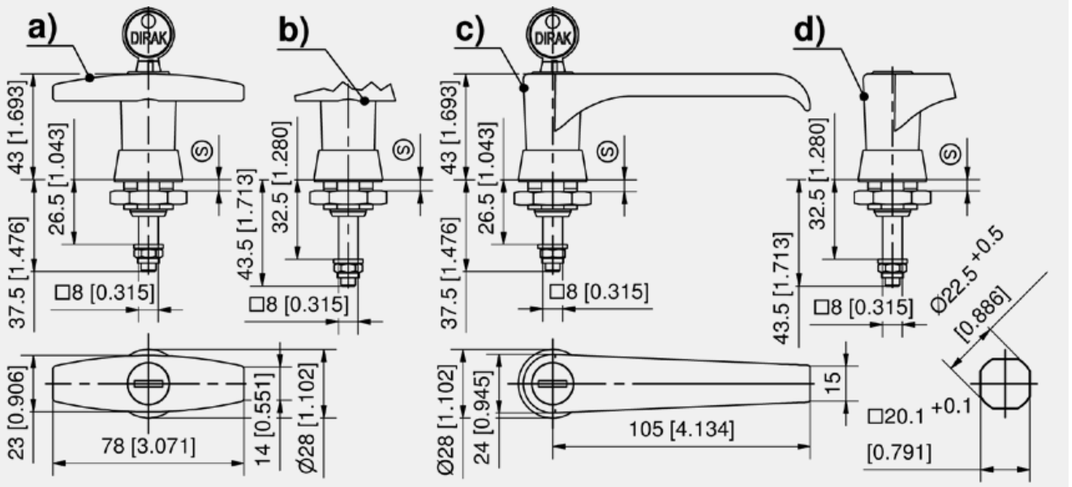
- RH / LH application.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.
- Please configure the handles with the rod latch 1-400, 1-405, 1-410 and 1-415.

Materials

- **Handle:** zinc die, chrome plated or black
- **Square pin:** steel, zinc plated
- **Bezel:** zinc die, chrome plated

Remarks

S= max. 4mm



T-handle, chrome plated

	Part Number	Version	Latching type
a)	235-9501.00-00000	A20/H22	
b)	235-9502.00-00000	A26/H28	
a)	235-9505.00-00000	A20/H22	keyed alike DIRAK 1333
b)	235-9506.00-00000	A26/H28	keyed alike DIRAK 1333
a)	535-9505.00-00000	A20/H22	keyed alike DS200
b)	535-9506.00-00000	A26/H28	keyed alike DS200
a)	235-9510.00-00000	A20/H22	keyed different
b)	235-9511.00-00000	A26/H28	keyed different
a)	501-9505.00-00000	A20/H22	PAGODA keyed alike 1991
b)	501-9506.00-00000	A26/H28	PAGODA keyed alike 1991
a)	501-9510.00-00000	A20/H22	PAGODA keyed different
b)	501-9511.00-00000	A26/H28	PAGODA keyed different

T-handle, black

	Part Number	Version	Latching type
a)	235-9503.00-00000	A20/H22	
b)	235-9504.00-00000	A26/H28	
a)	235-9507.00-00000	A20/H22	keyed alike DIRAK 1333
b)	235-9508.00-00000	A26/H28	keyed alike DIRAK 1333
a)	235-9512.00-00000	A20/H22	keyed different
b)	235-9513.00-00000	A26/H28	keyed different
a)	501-9507.00-00000	A20/H22	PAGODA keyed alike 1991
b)	501-9508.00-00000	A26/H28	PAGODA keyed alike 1991
a)	501-9512.00-00000	A20/H22	PAGODA keyed different
b)	501-9513.00-00000	A26/H28	PAGODA keyed different

L-handle, chrome plated

	Part Number	Version	Latching type
c)	235-9601.00-00000	A20/H22	
d)	235-9602.00-00000	A26/H28	
c)	235-9605.00-00000	A20/H22	keyed alike DIRAK 1333
d)	235-9606.00-00000	A26/H28	keyed alike DIRAK 1333
c)	535-9605.00-00000	A20/H22	keyed alike DS200
d)	535-9606.00-00000	A26/H28	keyed alike DS200
c)	235-9610.00-00000	A20/H22	keyed different
d)	235-9611.00-00000	A26/H28	keyed different
c)	501-9605.00-00000	A20/H22	PAGODA keyed alike 1991
d)	501-9606.00-00000	A26/H28	PAGODA keyed alike 1991

L-handle, black

	Part Number	Version	Latching type
c)	235-9603.00-00000	A20/H22	
d)	235-9604.00-00000	A26/H28	
c)	235-9607.00-00000	A20/H22	keyed alike DIRAK 1333
d)	235-9608.00-00000	A26/H28	keyed alike DIRAK 1333
c)	535-9607.00-00000	A20/H22	keyed alike DS200
d)	535-9608.00-00000	A26/H28	keyed alike DS200
c)	235-9612.00-00000	A20/H22	keyed different
d)	235-9613.00-00000	A26/H28	keyed different

Accessories
1-400 **Inserts for Rod Latches 235 series**
1-410 **Rod Latch**
1-415 **Sliding Door Latch**
1-405 **Rod Latch**
209-9002 **Sealing kit IP65 for 200-Quarter-Turns**



Swinghandles





Resistance is not futile.

This swinghandle is tested in accordance with the Europeans Resistance Class II standard and offers protection against vandalism and unauthorized access.

Page 250–254

Simple.
Modular.
Versatile.

The swinghandle base is exceptionally versatile because of the multitude of features and the specially adapted accessories.

Page 242–245







24 365 secure.

„Thanks to a professional E-LINE by DIRAK solution, our wide belt sanders now have a secured lock integrated into our software‘s safety protocols.“

Ulrich Hartner,
Product Manager and Sales Manager Grinding Technology,
WEEKE drilling systems GmbH

DST DIRAK-SNAP-Technology. Simple. Secure.



Sleek handle made of stainless steel.

Low-profile and modern design made of high quality stainless steel for optimal use in demanding application areas.

Page 238



A faithful companion.

These high quality DIRAK profile cylinders have been tested in continuous operation for quality and reliability.

Page 300



Swinghandle by Cutout

B
50
25
50

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Insert 220–222
Cylinder barrel 220–222
Profile cylinder 222
Padlock 220–222

C
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50
50

Page: **223–245**

Insert 232, 240, 242–244
Cylinder barrel 223–228, 230, 240
Profile cylinder 228–229, 234–243
Padlock 242
Combination lock 231

150

Page: **224–226**

Cylinder barrel 224–226

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Profile cylinder 248–257
Padlock 248
KABA cylinder 248
Dual cylinder 254–257
Vandalism-proof 250–255

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Page: **258–270**

Profile cylinder 258–270
Padlock 258–259
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Dual cylinder 262–265, 270
Vandalism-proof 262–263

Further Cutouts

Page: **218–219, 246–247**

Insert 246–247
Cylinder barrel 218–219
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Swinghandles

Overview



218 DST Swinghandle RS 110 [2-078DST]



219 DST Swinghandle RS 110 [2-079DST]



220 Swinghandle RS PrB [2-070]



222 Swinghandle SOFT-LINE RS PrB [2-080.01]



223 DST Swinghandle RS PrC [2-075DST]



224 Swinghandle RS PrC with Cylinder Barrel [2-077]



225 DST Swinghandle RS PrC [2-077DST]



226 DST Swinghandle RS PrC [2-085DST]



228 Swinghandle SOFT-LINE RS PrC [2-080.02]



229 Swinghandle RS PrC for Profile-Cylinder [2-090]



230 Swinghandle RS PrC with Cylinder Barrel [2-090.01]



231 Swinghandle RS PrC with Combination Lock [2-090.02]



232 Swinghandle RS PrC for Insert [2-090.03]



233 Swinghandle RS PrC self-locking [2-090.04]



234 DST Swinghandle RS PrC for Profile-Cylinder [2-090DST]



236 Swinghandle RS PrC Stainless Steel [7-065]



238 NT Swinghandle RS PrC Stainless Steel [7-066]



240 Swinghandle RS PrC with Square Threaded Rod [2-092]



242 Swinghandle base [3-400]



243 Swinghandle base with LED Module [3-400E]



244 Carrier base [3-410]



245 Bearing Plate RS base [3-440]



246 Swinghandle RS 90 [2-120]



248 Swinghandle RS 105 for PHZ and KABA-Cylinder [2-100.01]



250 Swinghandle RS 105 for PHZ, RC II [2-102]



252 Swinghandle zinc die RS 105 for PHZ, RC II [2-103]



254 Dual Cylinder Swinghandle RS 105, RC II [2-126.01]



256 Dual Cylinder Swinghandle RS 105 PA [2-126.03]



258 Swinghandle RS 130 for PHZ [2-100.02]



260 Swinghandle RS 130 for Rod Latch PrA [2-110]



262 Dual Cylinder Swinghandle RS 130, RC II [2-126.02]



264 Dual Cylinder Swinghandle RS 130 PA [2-126.04]



266 Swinghandle RS 130 for Rod Latch [2-300]



268 Swinghandle RS 130 for Rod Latch RS [2-340]



270 Swinghandle for Rod Latch 2-400.01 [2-400]





278 Round Rod with Eye [1-170]



279 Round Rods for Adapter [1-180]



280 Adapter PA for Round Rods [1-181]



281 Adapter zinc die for Round Rods [1-181.01]



282 Round Rods Stainless Steel [7-106]



283 Height-adjustable Rod Guide with Knurled Nut [1-191]



284 Rod Guides for 8mm Round Rods [1-190]



285 Rod Guide RS [1-193]



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287 Rod Guide, height adjustable Stainless Steel [7-912]



288 Cams L35/45 steel [1-102]



290 3-Point Cam [2-150]



291 2-, 3- and 4-Point Cam Adapter[2-151]



292 3-Point Cam Adapter [2-151.04]



293 3- and 4-Point Cam Adapter stainless steel [7-106.02]



294 3-Point Cam Adapter adjustable [2-151.01]



295 Catch for standard Cams [2-151.02]



296 Cam Adapter 45° stainless steel [7-106.01]



297 Sliding Cap [2-091]



298 Grounding clip Stainless Steel [3-011]



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300 Profile-Cylinder DIN 18252 [2-140]



302 Profile-Cylinder Stainless Steel [7-069]



303 Rod Latch RS [2-340.01]



304 Rod Latch for internal release [2-400.01]

DST Swinghandle RS 110

[2-078DST]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods

Advantages

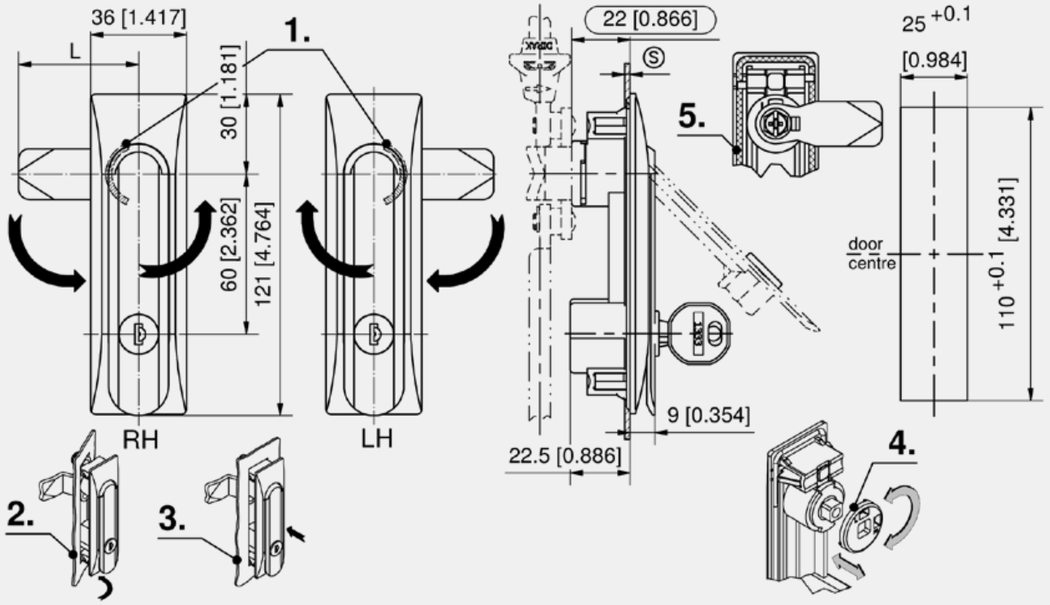
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swing-handle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achie-ved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.
- H-dimension of cam ≥10 mm.

Materials

- **Swinghandle:** zinc die, black
- **Dish:** PA6, black
- **Seal:** TPE

Remarks

1. = Limiting stop
2. = Guide Swinghandle with pre-assembled cam through upper cutout
3. = Final position fully snapped
4. = Rotating bottom
5. = Captive seal



Swinghandle handle zinc die, dish PA, black with cylinder barrel

Part Number	Clamping range	Surface handle	Surface dish	Installation type
407-9602.00-00015	1.2 - 1.7 mm	black	black	clip-in
407-9602.00-00020	1.7 - 2.2 mm	black	black	clip-in
407-9602.00-00025	2.2 - 2.7 mm	black	black	clip-in

Accessories

i)	286	1-192	**Rod Guides**
i)	285	1-193	**Rod Guide RS**
i)	284	1-190	**Rod Guides for 8mm Round Rods**
g)	281	1-181.01	**Adapter zinc die for Round Rods**
g)	280	1-181	**Adapter PA for Round Rods**
h)	278	1-170	**Round Rod with Eye**

Accessories

h)	279	1-180	**Round Rods for Adapter**
f)	288	1-102	**Cams L35/45 Steel**
f)	167	1-262	**Cam variable**
f)	291	2-151	**2-, 3- and 4-Point Cam Adapter**
	756	292-0306.80-02530	**Tool for uninstallation**
f)	170	1-105	**Roller Cam height adjustable**

DST Swinghandle RS 110

[2-079DST]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods

Advantages

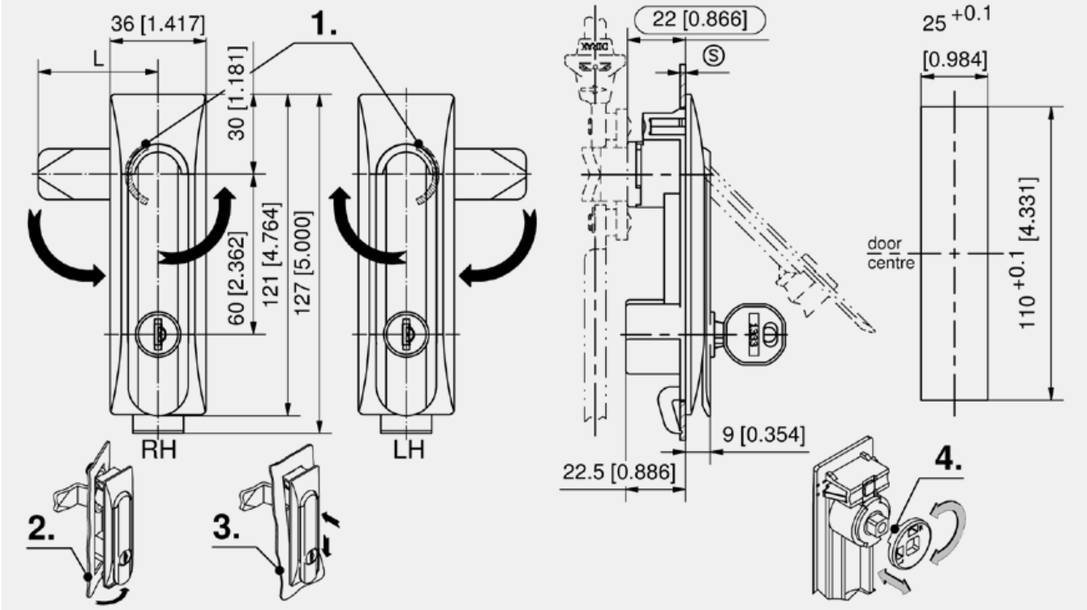
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swing-handle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achie-ved by the rotating bottom with limiting stop at 90°.
- Key with synthetic coated grip.
- H-dimension of cam ≥10 mm.

Materials

- **Swinghandle:** zinc die, black
- **Dish:** PA6, black

Remarks

1. = Limiting stop
2. = Guide Swinghandle with pre-assembled cam through cutout
3. = Put lower hook into position and snap upper part into final position
4. = Rotating bottom



Swinghandle handle zinc die, dish PA, black with cylinder barrel

Part Number	Clamping range	Surface handle	Surface dish	Installation type
407-9603.00-00015	1.2 - 1.7 mm	black	black	clip-in
407-9603.00-00020	1.7 - 2.2 mm	black	black	clip-in
407-9603.00-00025	2.2 - 2.7 mm	black	black	clip-in

Accessories

i)	286	1-192	**Rod Guides**
i)	285	1-193	**Rod Guide RS**
i)	284	1-190	**Rod Guides for 8mm Round Rods**
g)	281	1-181.01	**Adapter zinc die for Round Rods**
g)	280	1-181	**Adapter PA for Round Rods**
h)	278	1-170	**Round Rod with Eye**

Accessories

h)	279	1-180	**Round Rods for Adapter**
f)	288	1-102	**Cams L35/45 Steel**
f)	167	1-262	**Cam variable**
f)	291	2-151	**2-, 3- and 4-Point Cam Adapter**
	756	292-0306.80-02530	**Tool for uninstallation**
f)	170	1-105	**Roller Cam height adjustable**

Swinghandle RS PrB

[2-070]



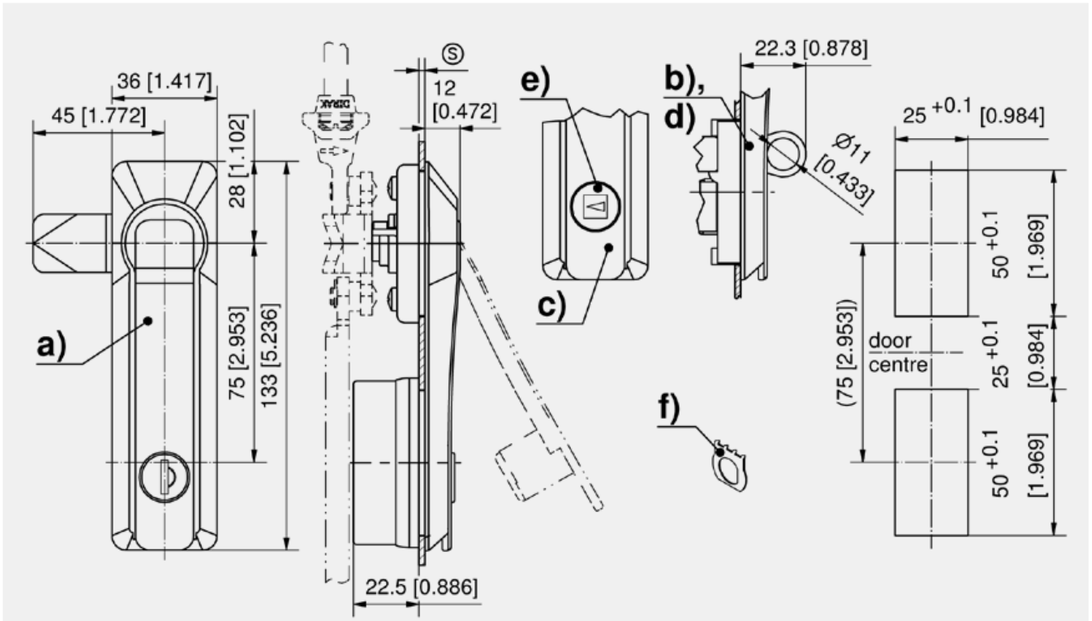
TRIMLINE, for cutout B, for round rods, for cylinder, insert or padlock

Advantages

- Swinghandle TRIMLINE for 3-point cam and round rods.
- RH / LH application.
- IP65 according to DIN EN 60529.
- Inserts must be ordered separately, see c). Locking stub included in handle assembly.
- Grounding by grounding clip 208-1206.93.

Materials

- **Swinghandle and dish:** see table
- **Padlock eye:** stainless steel AISI 316



Swinghandle zinc die, with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Installation type
a)	407-9003.00-00000	keyed alike DIRAK 1333	black	black	screw-on
a)	407-9007.00-00000	keyed alike DIRAK 1333	chrome plated	chrome plated	screw-on
a)	407-9011.00-00000	keyed alike DIRAK 1333	chrome plated	black	screw-on
a)	407-9017.00-00000	keyed alike DIRAK 1333	black	chrome plated	screw-on
a)	507-9003.00-00000	keyed alike DS200	black	black	screw-on
a)	507-9007.00-00000	keyed alike DS200	chrome plated	chrome plated	screw-on
a)	507-9011.00-00000	keyed alike DS200	chrome plated	black	screw-on
a)	507-9017.00-00000	keyed alike DS200	black	chrome plated	screw-on
a)	407-9008.00-00000	keyed different	chrome plated	chrome plated	screw-on
a)	407-9004.00-00000	keyed different	black	black	screw-on
a)	407-9012.00-00000	keyed different	chrome plated	black	screw-on
a)	407-9018.00-00000	keyed different	black	chrome plated	screw-on

Swinghandle zinc die, dish PA with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Installation type
a)	407-9023.00-00000	keyed alike DIRAK 1333	black	black	screw-on
a)	407-9027.00-00000	keyed alike DIRAK 1333	chrome plated	black	screw-on
a)	507-9023.00-00000	keyed alike DS200	black	black	screw-on
a)	507-9027.00-00000	keyed alike DS200	chrome plated	black	screw-on
a)	407-9024.00-00000	keyed different	black	black	screw-on
a)	407-9028.00-00000	keyed different	chrome plated	black	screw-on

Swinghandle zinc die, with cylinder barrel and padlock eye

	Part Number	Latching type	Surface handle	Surface dish	Padlock	Installation type
b)	407-9029.00-00000	keyed alike DIRAK 1333	chrome plated	chrome plated	Yes	screw-on
b)	407-9031.00-00000	keyed alike DIRAK 1333	black	black	Yes	screw-on
b)	407-9030.00-00000	keyed different	chrome plated	chrome plated	Yes	screw-on
b)	407-9032.00-00000	keyed different	black	black	Yes	screw-on

Swinghandle zinc die for insert

	Part Number	Surface handle	Surface dish	Installation type
c)	407-9102.00-00000	black	black	screw-on
c)	407-9104.00-00000	chrome plated	chrome plated	screw-on
c)	407-9106.00-00000	chrome plated	black	screw-on
c)	407-9108.00-00000	black	chrome plated	screw-on

Swinghandle zinc die, dish PA for insert

	Part Number	Surface handle	Surface dish	Installation type
c)	407-9118.00-00000	black	black	screw-on
c)	407-9120.00-00000	chrome plated	black	screw-on

Swinghandle zinc die for insert and padlock eye

	Part Number	Surface handle	Material dish	Surface dish	Padlock	Installation type
d)	407-9109.00-00000	chrome plated	zinc die	chrome plated	Yes	screw-on
d)	407-9110.00-00000	black	zinc die	black	Yes	screw-on
d)	407-9111.00-00000	black	zinc die	chrome plated	Yes	screw-on
d)	407-9112.00-00000	chrome plated	zinc die	black	Yes	screw-on
d)	407-9121.00-00000	black	PA	black	Yes	screw-on
d)	407-9122.00-00000	chrome plated	PA	black	Yes	screw-on

		Accessories
e)	299	2-141 **Inserts**
o)	284	1-190 **Rod Guides for 8mm Round Rods**
m)	281	1-181.01 **Adapter zinc die for Round Rods**
m)	280	1-181 **Adapter PA for Round Rods**
n)	278	1-170 **Round Rod with Eye**
n)	279	1-180 **Round Rods for Adapter**
l)	288	1-102 **Cams L35/45 Steel**
l)	290	2-150 **3-Point Cam**
l)	170	1-105 **Roller Cam height adjustable**
f)	298	3-011 **Grounding clip**

Swinghandle SOFTLINE RS PrB

[2-080.01]



Advantages

- Swinghandle SOFTLINE for 1-, 2- or 3-point locking systems.
- The Swinghandle can be locked with 40mm long Profile-Cylinders (DIN 18252), cylinder or insert. Cylinder cam on 45° or 90°.
- Available with two different sliding dustcovers.
- Version b), c) and d) for 40mm PHZ, barrel cylinder or insert.
- Version a1) and b1) for 40mm PHZ with protruding key-barrel part.
- RH / LH application.

Materials

- **Swinghandle, Dish, Sliding cover:** PA, black
- **Grounding clip:** stainless steel AISI 301

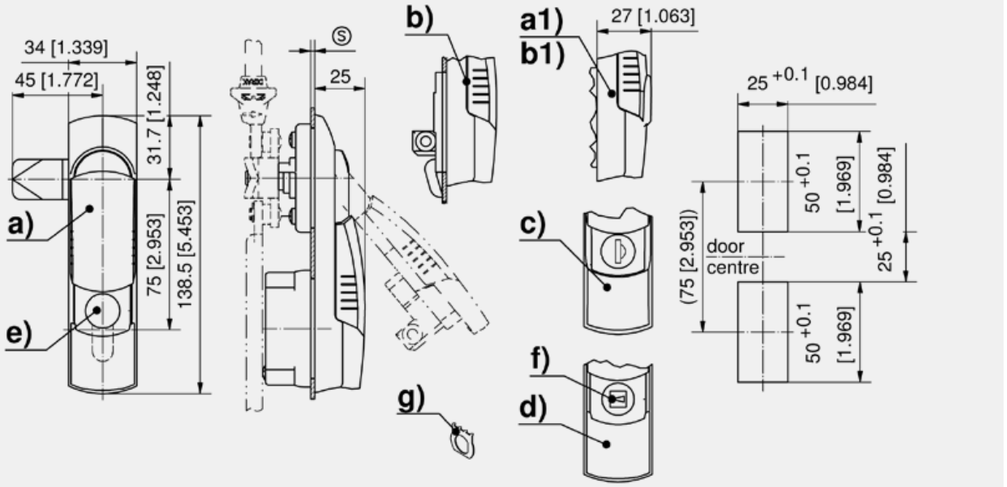
Remarks

IP65 according to DIN 60529 - version dish with cap.

For non IP65 applications - version dish with hook.

Grounding by grounding clip g)

Inserts must be ordered separately. Locking stub is included in handle-assembly.



Swinghandles

	Part Number	Latching type	Version	Dish	Installation type
a)	407-9055.00-00000	for PHZ	for up to 2.5mm protruding key-barrel part	with cap (IP65)	screw-on
a1)	407-9056.00-00000	for PHZ	for up to 5mm protruding key-barrel part	with cap (IP65)	screw-on
b)	407-9045.00-00000	for PHZ	for up to 2.5mm protruding key-barrel part	with hook (not IP65)	screw-on
b1)	407-9046.00-00000	for PHZ	for up to 5mm protruding key-barrel part	with hook (not IP65)	screw-on
c)	407-9053.00-00000	keyed alike DIRAK 1333		with cap (IP65)	screw-on
c)	507-9268.00-00000	keyed alike DS200		with cap (IP65)	screw-on
c)	407-9054.00-00000	keyed different		with cap (IP65)	screw-on
c)	407-9043.00-00000	keyed alike DIRAK 1333		with hook (not IP65)	screw-on
c)	507-9265.00-00000	keyed alike DS200		with hook (not IP65)	screw-on
c)	407-9044.00-00000	keyed different		with hook (not IP65)	screw-on
d)	407-9057.00-00000	for insert		with cap (IP65)	screw-on
d)	407-9047.00-00000	for insert		with hook (not IP65)	screw-on

Accessories

e)	300	2-140	**Profile-Cylinder DIN 18252**
f)	299	2-141	**Inserts**
o)	284	1-190	**Rod Guides for 8mm Round Rods**
m)	281	1-181.01	**Adapter zinc die for Round Rods**
m)	280	1-181	**Adapter PA for Round Rods**
n)	278	1-170	**Round Rod with Eye**

Accessories

n)	279	1-180	**Round Rods for Adapter**
l)	288	1-102	**Cams L35/45 Steel**
l)	290	2-150	**3-Point Cam**
l)	170	1-105	**Roller Cam height adjustable**
g)	298	3-011	**Grounding clip**

DST Swinghandle RS PrC

[2-075DST]



Advantages

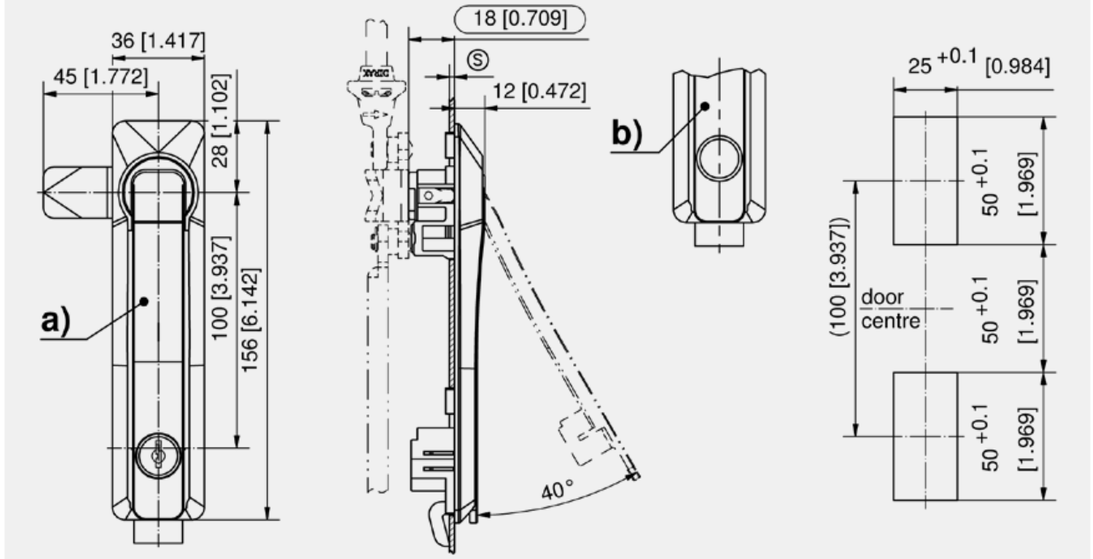
- Swinghandle TRIMLINE with pull-and-swing handle for cylinder barrel.
- 90° Closing rotation.
- RH / LH application.
- For cam and 3-Point cam.
- Tool-less installation.
- The dish is hooked into the lower cutout and snaped into the upper cutout.
- On request available with pre-assembled cam / 3-point cam.
- Grounding by assembled grounding clip.
- A non-locked handle has a detent in the door-dish.

Materials

- **Handle and turning-disk:** zinc die, black
- **Dish:** PA, black
- **Bottom (90° base) LH/RH:** zinc die, zinc plated
- **Grounding clip:** stainless steel
- **Locking cylinder:** PA
- **Snap wedges:** PA

Remarks

(s) = clamping range



Swinghandle zinc die, dish PA, black, with cylinder barrel

	Part Number	Clamping range	Latching type	Installation type
a)	407-9302.00-00015	1.2 - 1.7 mm	keyed alike DIRAK 1333	clip-in
a)	407-9302.00-00020	1.7 - 2.2 mm	keyed alike DIRAK 1333	clip-in
a)	407-9301.00-00015	1.2 - 1.7 mm	keyed different	clip-in
a)	407-9301.00-00020	1.7 - 2.2 mm	keyed different	clip-in

Swinghandle zinc die, dish PA, black, handle part without cylinder

	Part Number	Clamping range	Installation type
b)	407-9303.00-00015	1.2 - 1.7 mm	clip-in
b)	407-9303.00-00020	1.7 - 2.2 mm	clip-in

Accessories

288	1-102	**Cams L35/45 Steel**
291	2-151	**2-, 3- and 4-Point Cam Adapter**
292	2-151.04	**3-Point Cam Adapter**

Accessories

756	292-0301.15-00000	**Tool for uninstallation**
756	292-0306.80-02530	**Tool for uninstallation**

Swinghandle RS PrC with Cylinder Barrel [2-077]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods

Advantages

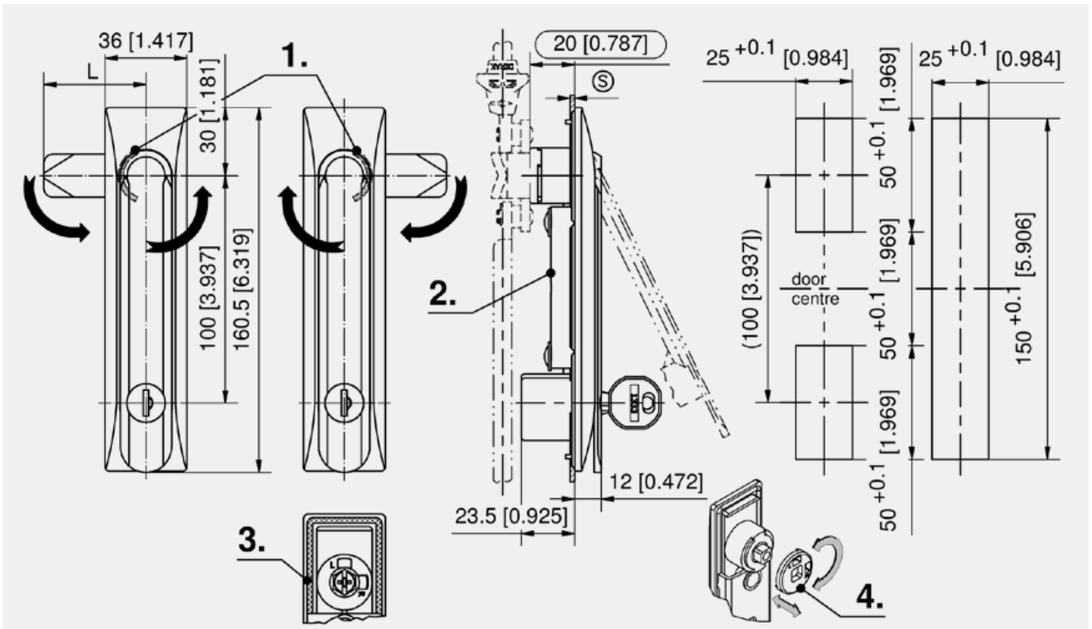
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled swing-handle (single or 3-point cam) can be inserted from the back into the cutout and secured with screws.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.
- H-dimension of cam ≥16 mm.
- (S) = max. 3 mm.

Materials

- **Swinghandle, shaft and bottom:** zinc die, black
- **Door dish:** PA6, black
- **Cam:** zinc die, untreated
- **O-Ring:** NBR
- **Seal:** TPE
- **Screws and clamp:** steel, zinc plated

Remarks

1. = Limiting stop
2. = Clamp
3. = Captive seal
4. = Rotating bottom



Swinghandles

Part Number	Surface handle	Surface dish	Installation type
407-9604.00-00000	black	black	screw-on

Accessories

i)	286	1-192 **Rod Guides**
i)	285	1-193 **Rod Guide RS**
i)	284	1-190 **Rod Guides for 8mm Round Rods**
g)	281	1-181.01 **Adapter zinc die for Round Rods**
g)	280	1-181 **Adapter PA for Round Rods**
h)	278	1-170 **Round Rod with Eye**

Accessories

h)	279	1-180 **Round Rods for Adapter**
f)	288	1-102 **Cams L35/45 Steel**
f)	167	1-262 **Cam variable**
f)	291	2-151 **2-, 3- and 4-Point Cam Adapter**
f)	170	1-105 **Roller Cam height adjustable**

DST Swinghandle RS PrC [2-077DST]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods

Advantages

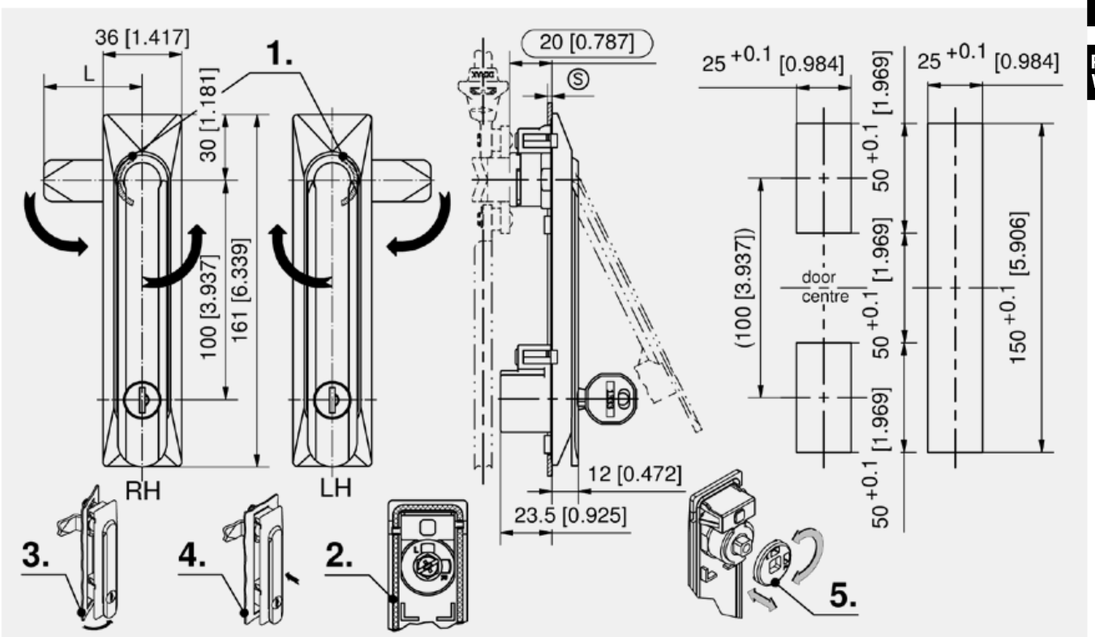
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swing-handle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- Vibration-proof according to DIN EN 61373.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.
- H-dimension of cam ≥16 mm.

Materials

- **Swinghandle and dish:** zinc die, black
- **Seal:** TPE

Remarks

1. = Limiting stop
2. = Captive seal
3. = Guide Swinghandle with pre-assembled cam through upper cutout
4. = Swinghandle completely snapped in
5. = Rotating bottom



Swinghandle zinc die, black with cylinder barrel

Part Number	Clamping range	Installation type
407-9601.00-00015	1.2 - 1.7 mm	clip-in
407-9601.00-00020	1.7 - 2.2 mm	clip-in
407-9601.00-00025	2.2 - 2.7 mm	clip-in

Accessories

i)	286	1-192 **Rod Guides**
i)	285	1-193 **Rod Guide RS**
i)	284	1-190 **Rod Guides for 8mm Round Rods**
g)	281	1-181.01 **Adapter zinc die for Round Rods**
g)	280	1-181 **Adapter PA for Round Rods**
h)	278	1-170 **Round Rod with Eye**

Accessories

h)	279	1-180 **Round Rods for Adapter**
f)	288	1-102 **Cams L35/45 Steel**
f)	167	1-262 **Cam variable**
f)	291	2-151 **2-, 3- and 4-Point Cam Adapter**
	756	292-0306.80-02530 **Tool for uninstallation**
f)	170	1-105 **Roller Cam height adjustable**

DST Swinghandle RS PrC

[2-085DST]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods

Advantages

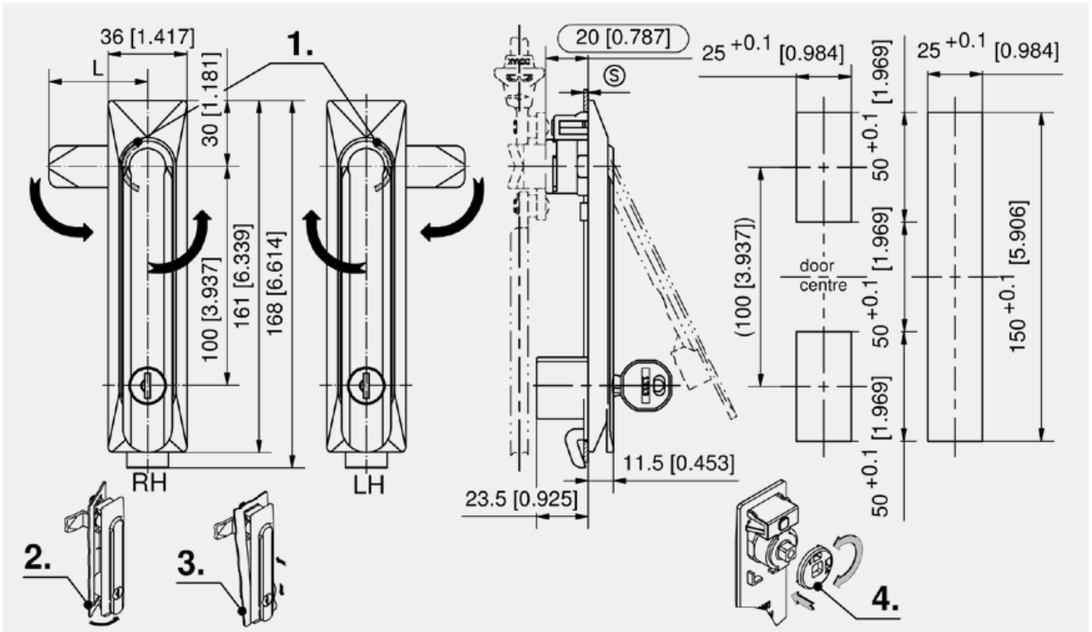
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swing-handle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achie-ved by the rotating bottom with limiting stop at 90°.
- H-dimension of cam ≥16 mm (0.630inch).

Materials

- **Swinghandle:** zinc die, black
- **Dish:** PA6, black

Remarks

1. = Limiting stop
2. = Guide Swinghandle with pre-assembled cam through cutout
3. = Put lower hook into position and snap upper part into final position
4. = Rotating bottom



Swinghandle handle zinc die, dish PA, black with cylinder barrel

Part Number	Clamping range	Surface handle	Surface dish	Installation type
407-9606.00-00015	1.2 - 1.7 mm	black	black	clip-in
407-9606.00-00020	1.7 - 2.2 mm	black	black	clip-in

	Accessories
i)	286 1-192 **Rod Guides**
i)	285 1-193 **Rod Guide RS**
i)	284 1-190 **Rod Guides for 8mm Round Rods**
g)	281 1-181.01 **Adapter zinc die for Round Rods**
g)	280 1-181 **Adapter PA for Round Rods**
h)	278 1-170 **Round Rod with Eye**

	Accessories
h)	279 1-180 **Round Rods for Adapter**
f)	288 1-102 **Cams L35/45 Steel**
f)	167 1-262 **Cam variable**
f)	291 2-151 **2-, 3- and 4-Point Cam Adapter**
	756 292-0306.80-02530 **Tool for uninstallation**
f)	170 1-105 **Roller Cam height adjustable**



Swinghandle base with LED Module

See page 242

Swinghandle SOFTLINE RS PrC

[2-080.02]

C

R L

IP 65

RoHS WEEE



Advantages

- Swinghandle SOFTLINE for 1-, 2- or 3-point locking systems.
- The Swinghandle can be locked with 40mm long Profile-Cylinders (DIN 18252), cylinder or insert. Cylinder cam on 45° or 90°.
- Available with two different sliding dustcovers.
- Version b), c) and d) for 40mm PHZ, barrel cylinder or insert.
- Version a1) and b1) for 40mm PHZ with protruding key-barrel part.
- RH / LH application.

Materials

- **Swinghandle:** PA, black
- **Dish:** PA, black
- **Sliding cover:** PA, black
- **Grounding clip:** stainless steel AISI 301

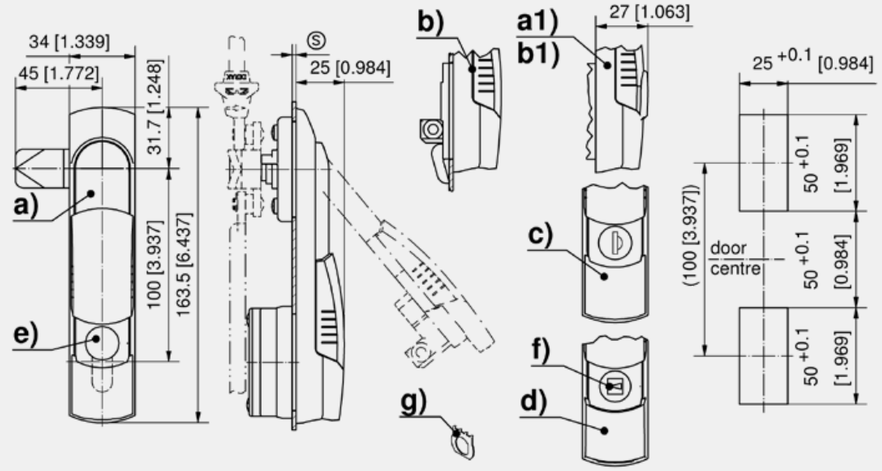
Remarks

IP65 according to DIN 60529 - version dish with cap.

For non IP65 applications - version dish with hook.

Grounding by grounding clip g)

Inserts must be ordered separately. Locking stub is included in handle-assembly.



Swinghandles

	Part Number	Latching type	Version	Dish	Installation type
a)	107-9005.00-00000	for PHZ	for up to 2.5mm protruding key-barrel part	with cap (IP65)	screw-on
a1)	107-9006.00-00000	for PHZ	for up to 5mm protruding key-barrel part	with cap (IP65)	screw-on
b)	107-9007.00-00000	for PHZ	for up to 2.5mm protruding key-barrel part	with hook (not IP65)	screw-on
b1)	107-9008.00-00000	for PHZ	for up to 5mm protruding key-barrel part	with hook (not IP65)	screw-on
c)	107-9018.00-00000	keyed alike DIRAK 1333		with cap (IP65)	screw-on
c)	507-9210.00-00000	keyed alike DS200		with cap (IP65)	screw-on
c)	107-9020.00-00000	keyed different		with cap (IP65)	screw-on
c)	107-9021.00-00000	keyed alike DIRAK 1333		with hook (not IP65)	screw-on
c)	507-9211.00-00000	keyed alike DS200		with hook (not IP65)	screw-on
c)	107-9023.00-00000	keyed different		with hook (not IP65)	screw-on
d)	107-9024.00-00000	for insert		with cap (IP65)	screw-on
d)	107-9025.00-00000	for insert		with hook (not IP65)	screw-on

Accessories

e)	300	2-140	**Profile-Cylinder DIN 18252**
f)	299	2-141	**Inserts**
	284	1-190	**Rod Guides for 8mm Round Rods**
	281	1-181.01	**Adapter zinc die for Round Rods**
	280	1-181	**Adapter PA for Round Rods**
	278	1-170	**Round Rod with Eye**

Accessories

	279	1-180	**Round Rods for Adapter**
	288	1-102	**Cams L35/45 Steel**
	290	2-150	**3-Point Cam**
	170	1-105	**Roller Cam height adjustable**
g)	298	3-011	**Grounding clip**

Swinghandle RS PrC for Profile-Cylinder

[2-090]

C

R L

IP 65

RoHS WEEE



for cutout C, for round rods

Advantages

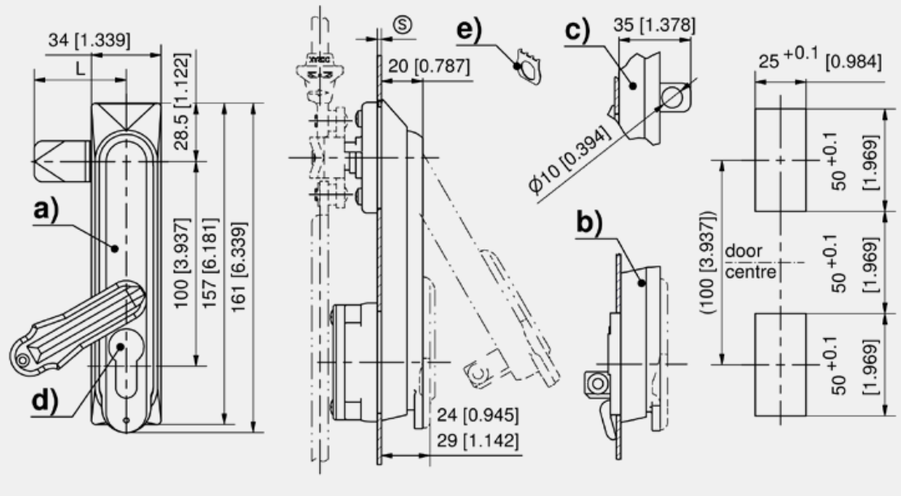
- The Swinghandle can be locked with profile-cylinders with 45° or 90° locking cam.
- Swinghandle with 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- The listed swinghandles, can be retrofitted with a sliding cap (product system 2-091).
- The sliding cap can be used for profile-cylinders from product system 2-140 and also for raised profile cylinders.
- Alternative products see also 2-090.01, 2-090.02, 2-090.03, 2-090.04.

Materials

- **Handle, dish and cylinder dustcover:** see table
- **Shaft:** brass
- **Bearing plate:** zinc die, untreated
- **Cap:** PA6
- **Sealings:** NBR

Remarks

Screws M5x16 for fastening cylinder included!



Swinghandle for profile cylinder

	Part Number	Material handle	Surface handle	Material dish	Surface dish	Dish	Material cylinder cover	Sealable	Padlock bolt
a)	207-9282.00-00000	PA	black	PA	black	with cap (IP65)			
a)	207-9283.00-00000	PA	black	PA	black	with cap (IP65)	PA	Yes	
a)	207-9284.00-00000	PA	black	PA	black	with cap (IP65)	PA	Yes	
b)	107-9254.00-00000	PA	black	PA	black	with hook (not IP65)			
b)	107-9255.00-00000	PA	black	PA	black	with hook (not IP65)	PA	Yes	
a)	107-9226.00-00000	zinc die	black	PA	black	with cap (IP65)			
a)	107-9227.00-00000	zinc die	black	PA	black	with cap (IP65)	PA	Yes	
a)	107-9228.00-00000	zinc die	black	PA	black	with cap (IP65)	PA	Yes	
c)	107-9282.00-00000	zinc die	black	PA	black	with cap (IP65)			Yes
a)	107-9225.00-00000	zinc die	chrome plated	PA	black	with cap (IP65)			
a)	107-9208.00-00000	zinc die	black	zinc die	black	with cap (IP65)	zinc die	Yes	

Accessories

d)	300	2-140	**Profile-Cylinder DIN 18252**
	297	2-091	**Sliding Cap**
	285	1-193	**Rod Guide RS**
	284	1-190	**Rod Guides for 8mm Round Rods**
	281	1-181.01	**Adapter zinc die for Round Rods**
	280	1-181	**Adapter PA for Round Rods**

Accessories

	278	1-170	**Round Rod with Eye**
	279	1-180	**Round Rods for Adapter**
	291	2-151	**2-, 3- and 4-Point Cam Adapter**
	290	2-150	**3-Point Cam**
	292	2-151.04	**3-Point Cam Adapter**
e)	298	3-011	**Grounding clip**

Swinghandle RS PrC with Cylinder Barrel [2-090.01]



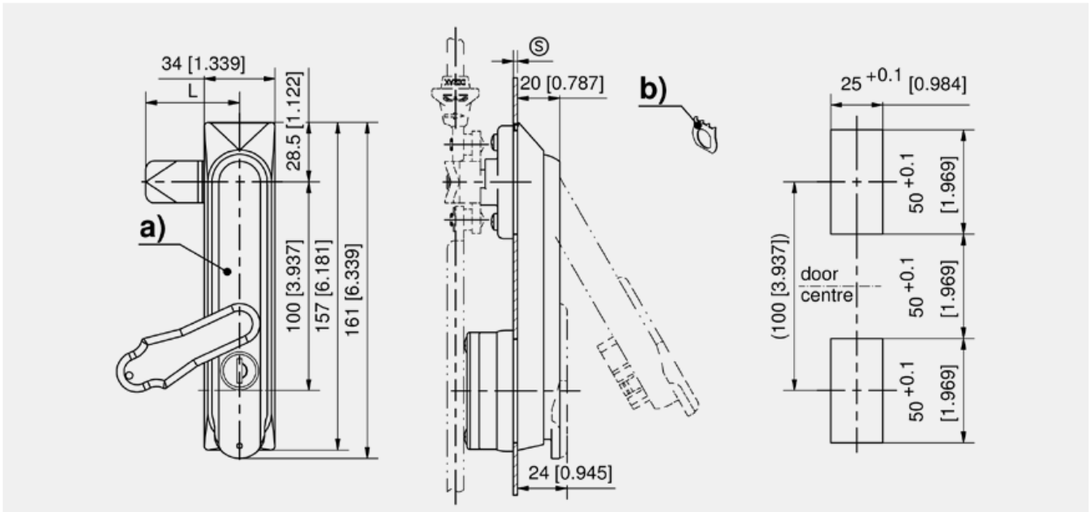
for cutout C, for round rods

Advantages

- The swinghandle can be locked by assembled cylinder barrel.
- Swinghandle with 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529.
- The listed swinghandles, can be retrofitted with a sliding cap (product system 2-091).
- Alternative products see also 2-090, 2-090.02, 2-090.03, 2-090.04.

Materials

- **Handle, dish and cylinder dustcover:** see table
- **Shaft:** brass
- **Bearing plate:** zinc die, untreated
- **Cap:** PA6
- **Sealings:** NBR



Swinghandle with cylinder barrel

	Part Number	Latching type	Material handle	Material dish	Material cylinder cover	Sealable	Installation type
a)	207-9238.00-00000	keyed alike DIRAK 1333	PA, black	PA, black			screw-on
a)	207-9240.00-00000	keyed alike DIRAK 1333	PA, black	PA, black	PA	Yes	screw-on
a)	507-9238.00-00000	keyed alike DS200	PA, black	PA, black			screw-on
a)	507-9240.00-00000	keyed alike DS200	PA, black	PA, black	PA	Yes	screw-on
a)	207-9239.00-00000	keyed different	PA, black	PA, black			screw-on
a)	207-9241.00-00000	keyed different	PA, black	PA, black	PA	Yes	screw-on
a)	107-9201.00-00000	keyed alike DIRAK 1333	zinc die, chrome plated	PA, black			screw-on
a)	107-9202.00-00000	keyed alike DIRAK 1333	zinc die, black	PA, black			screw-on
a)	507-9201.00-00000	keyed alike DS200	zinc die, chrome plated	PA, black			screw-on
a)	507-9202.00-00000	keyed alike DS200	zinc die, black	PA, black			screw-on
a)	107-9203.00-00000	keyed different	zinc die, chrome plated	PA, black			screw-on
a)	107-9204.00-00000	keyed different	zinc die, black	PA, black			screw-on

	Accessories
	297 2-091 **Sliding Cap**
	285 1-193 **Rod Guide RS**
	284 1-190 **Rod Guides for 8mm Round Rods**
	281 1-181.01 **Adapter zinc die for Round Rods**
	280 1-181 **Adapter PA for Round Rods**
	278 1-170 **Round Rod with Eye**

	Accessories
	279 1-180 **Round Rods for Adapter**
	291 2-151 **2-, 3- and 4-Point Cam Adapter**
	290 2-150 **3-Point Cam**
	292 2-151.04 **3-Point Cam Adapter**
b)	298 3-011 **Grounding clip**

Swinghandle RS PrC with Combination Lock [2-090.02]



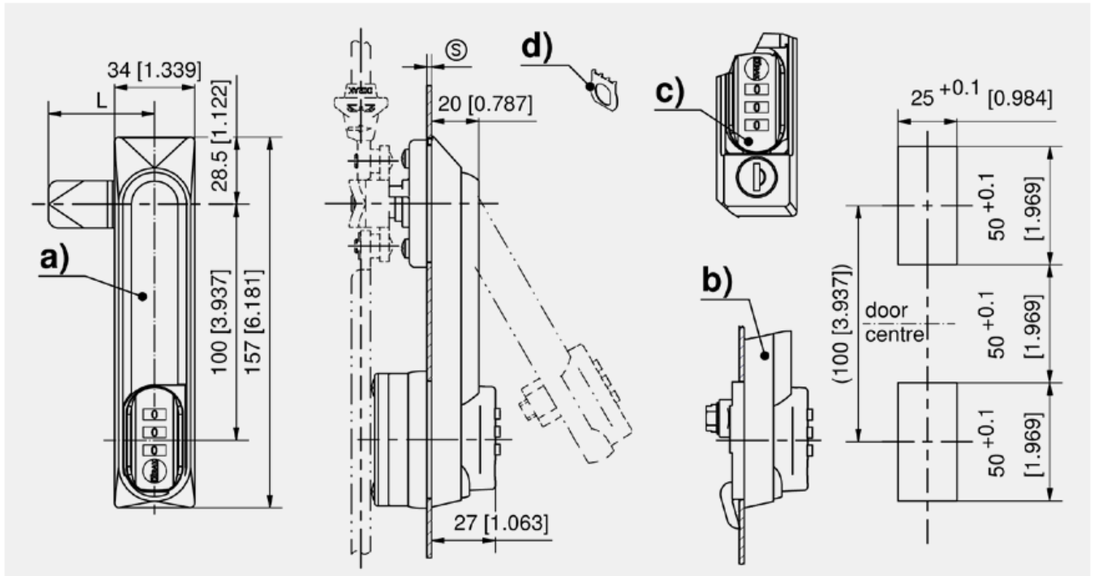
for cutout C, for round rods

Advantages

- The swinghandle can be locked by combination lock and assembled cylinder barrel.
- Swinghandle with 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Alternative products see also 2-090, 2-090.01, 2-090.03, 2-090.04.

Materials

- **Handle and dish:** see table
- **Shaft:** brass
- **Bearing plate:** zinc die, untreated
- **Cap:** PA6
- **Sealings:** NBR



Swinghandles

	Part Number	Latching type	Material handle	Material dish	Dish	Installation type
a)	107-9268.00-00000	combination lock	zinc die, chrome plated	PA, black	with cap (IP65)	screw-on
a)	107-9270.00-00000	combination lock	zinc die, black	PA, black	with cap (IP65)	screw-on
b)	107-9269.00-00000	combination lock	zinc die, chrome plated	PA, black	with hook (not IP65)	screw-on
b)	107-9271.00-00000	combination lock	zinc die, black	PA, black	with hook (not IP65)	screw-on
c)	107-9277.00-00000	Combination lock and keyed alike DIRAK 1333	PA, black	PA, black	with cap (IP65)	screw-on
c)	107-9278.00-00000	combination lock and keyed different	PA, black	PA, black	with cap (IP65)	screw-on

	Accessories
	285 1-193 **Rod Guide RS**
	284 1-190 **Rod Guides for 8mm Round Rods**
	281 1-181.01 **Adapter zinc die for Round Rods**
	280 1-181 **Adapter PA for Round Rods**
	278 1-170 **Round Rod with Eye**

	Accessories
	279 1-180 **Round Rods for Adapter**
	291 2-151 **2-, 3- and 4-Point Cam Adapter**
	290 2-150 **3-Point Cam**
	292 2-151.04 **3-Point Cam Adapter**
d)	298 3-011 **Grounding clip**

Swinghandle RS PrC for Insert

[2-090.03]



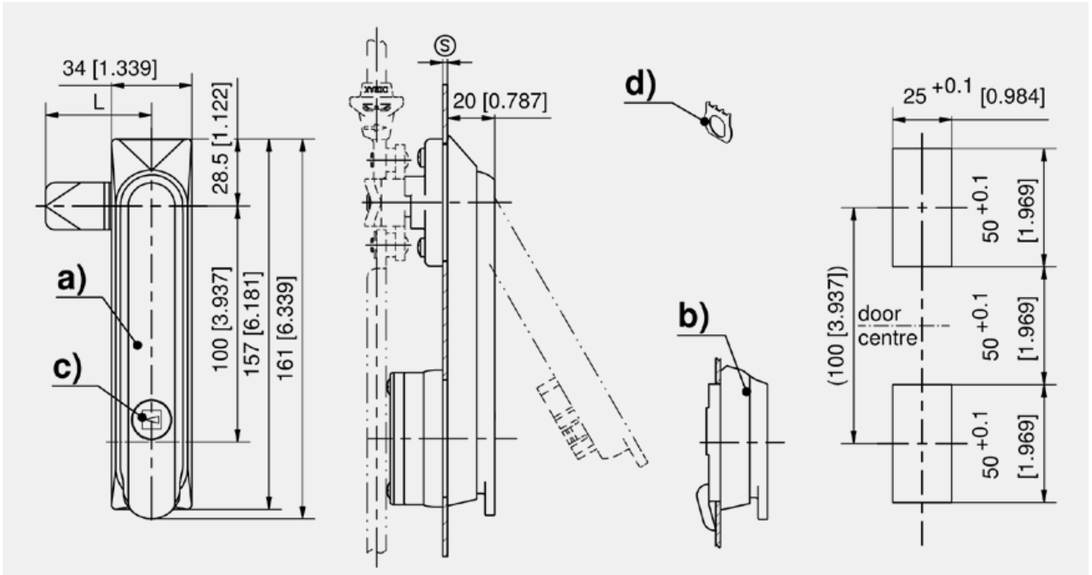
for cutout C, for round rods

Advantages

- The swinghandle can be locked with inserts (inserts must be ordered separately).
- Swinghandle with 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Alternative products see also 2-090, 2-090.01, 2-090.02, 2-090.04.

Materials

- **Handle and dish:** see table
- **Shaft:** brass
- **Bearing plate:** zinc die, untreated
- **Cap:** PA6
- **Sealings:** NBR



Swinghandle for inserts

	Part Number	Material handle	Surface handle	Material dish	Surface dish	Dish	Installation type
a)	207-9244.00-00000	PA	black	PA	black	with cap (IP65)	screw-on
b)	107-9279.00-00000	PA	black	PA	black	with hook (not IP65)	screw-on
a)	107-9205.00-00000	zinc die	chrome plated	PA	black	with cap (IP65)	screw-on
a)	107-9206.00-00000	zinc die	black	PA	black	with cap (IP65)	screw-on

	Accessories
c)	299 2-141 **Inserts**
	285 1-193 **Rod Guide RS**
	284 1-190 **Rod Guides for 8mm Round Rods**
	281 1-181.01 **Adapter zinc die for Round Rods**
	280 1-181 **Adapter PA for Round Rods**
	278 1-170 **Round Rod with Eye**

	Accessories
	279 1-180 **Round Rods for Adapter**
	291 2-151 **2-, 3- and 4-Point Cam Adapter**
	290 2-150 **3-Point Cam**
	292 2-151.04 **3-Point Cam Adapter**
d)	298 3-011 **Grounding clip**

Swinghandle RS PrC self-locking

[2-090.04]



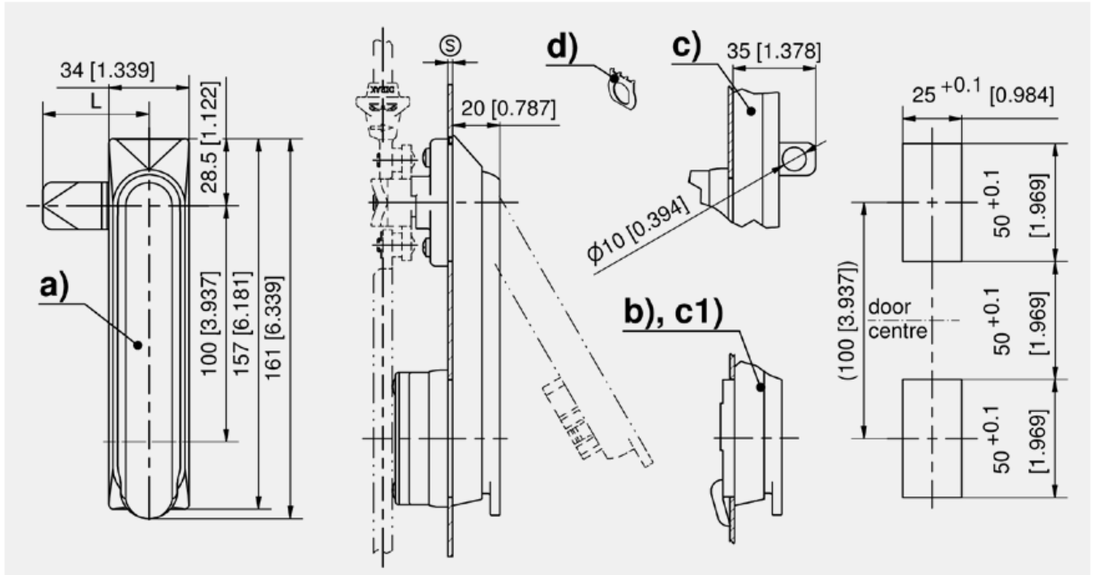
for cutout C, for round rods

Advantages

- The swinghandle can be locked by detents.
- Swinghandle with 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Alternative products see also 2-090, 2-090.01, 2-090.02, 2-090.03.

Materials

- **Handle and dish:** see table
- **Shaft:** brass
- **Bearing plate:** zinc die, untreated
- **Cap:** PA6
- **Sealings:** NBR



Swinghandle PA, self-locking, handle closed

	Part Number	Surface handle	Surface dish	Dish	Padlock bolt	Installation type
a)	107-9260.00-00000	black	black	with cap (IP65)		screw-on
b)	107-9261.00-00000	black	black	with hook (not IP65)		screw-on
c)	107-9262.00-00000	black	black	with cap (IP65)	Yes	screw-on
c1)	107-9263.00-00000	black	black	with hook (not IP65)	Yes	screw-on

	Accessories
	285 1-193 **Rod Guide RS**
	284 1-190 **Rod Guides for 8mm Round Rods**
	281 1-181.01 **Adapter zinc die for Round Rods**
	280 1-181 **Adapter PA for Round Rods**
	278 1-170 **Round Rod with Eye**

	Accessories
	279 1-180 **Round Rods for Adapter**
	291 2-151 **2-, 3- and 4-Point Cam Adapter**
	290 2-150 **3-Point Cam**
	292 2-151.04 **3-Point Cam Adapter**
d)	298 3-011 **Grounding clip**

DST Swinghandle RS PrC for Profile-Cylinder [2-090DST]



Advantages

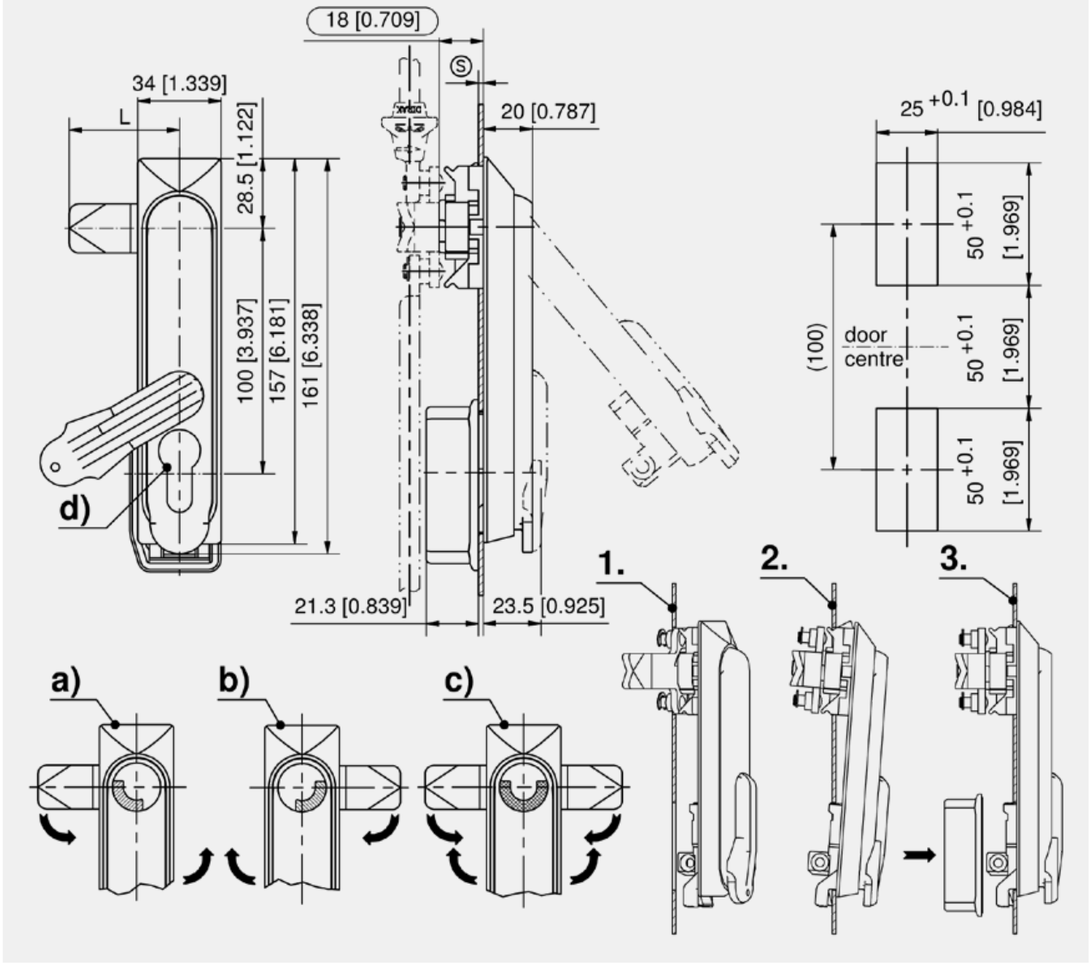
- Swinghandle with pull-and-swing handle for profile-cylinders to DIN 18252.
- Tool-less installation.
- a) 90° for RH doors with counter-clockwise opening.
- b) 90° for LH doors with clockwise opening.
- c) 180° opening.
- The rotation stop prevents a damaging over-rotation of cam / 3-point cam.
- IP65 according to DIN EN 60529 will be achieved by cap and o-ring.

Materials

- **Swinghandle, dish, cover and cap:** PA, black
- **O-Rings:** NBR Perbunan
- **Hexagon nut and washer:** steel, zinc plated
- **Shaft:** brass, untreated
- **Snap wedges:** sintered steel
- **Stop:** zinc die, untreated

Remarks

1. Guide swinghandle with pre-assembled cam through upper cutout.
2. Hook-in the lower part of the swinghandle and clip it in at the top.
3. Press cap on.



Swinghandle PA, black for profile-cylinder with dust cover, PA

	Part Number	Clamping range	Dish	Stop	Sealable	Installation type
a)	407-9505.00-00015	1.3 - 2.0 mm	with hook and cap	RH, 90°	Yes	tool-less
a)	407-9505.00-00018	1.5 - 2.2 mm	with hook and cap	RH, 90°	Yes	tool-less
a)	407-9505.00-00020	1.8 - 2.5 mm	with hook and cap	RH, 90°	Yes	tool-less
b)	407-9507.00-00015	1.3 - 2.0 mm	with hook and cap	LH, 90°	Yes	tool-less
b)	407-9507.00-00018	1.5 - 2.2 mm	with hook and cap	LH, 90°	Yes	tool-less
b)	407-9507.00-00020	1.8 - 2.5 mm	with hook and cap	LH, 90°	Yes	tool-less
c)	407-9509.00-00018	1.5 - 2.2 mm	with hook and cap	RH/LH, 90°	Yes	tool-less
c)	407-9509.00-00020	1.8 - 2.5 mm	with hook and cap	RH/LH, 90°	Yes	tool-less
c)	407-9509.00-00015	1.3 - 2.0 mm	with hook and cap	RH/LH, 90°	Yes	tool-less

Swinghandle PA, black for profile-cylinder without dust cover

	Part Number	Clamping range	Dish	Stop	Sealable	Installation type
a)	407-9506.00-00015	1.3 - 2.0 mm	with hook and cap	RH, 90°	Yes	tool-less
a)	407-9506.00-00018	1.5 - 2.2 mm	with hook and cap	RH, 90°	Yes	tool-less
a)	407-9506.00-00020	1.8 - 2.5 mm	with hook and cap	RH, 90°	Yes	tool-less
b)	407-9508.00-00015	1.3 - 2.0 mm	with hook and cap	LH, 90°	Yes	tool-less
b)	407-9508.00-00018	1.5 - 2.2 mm	with hook and cap	LH, 90°	Yes	tool-less
b)	407-9508.00-00020	1.8 - 2.5 mm	with hook and cap	LH, 90°	Yes	tool-less
c)	407-9510.00-00015	1.3 - 2.0 mm	with hook and cap	RH/LH, 90°	Yes	tool-less
c)	407-9510.00-00018	1.5 - 2.2 mm	with hook and cap	RH/LH, 90°	Yes	tool-less
c)	407-9510.00-00020	1.8 - 2.5 mm	with hook and cap	RH/LH, 90°	Yes	tool-less

		Accessories
d)	300	2-140 **Profile-Cylinder DIN 18252**
	297	2-091 **Sliding Cap**
i)	285	1-193 **Rod Guide RS**
i)	284	1-190 **Rod Guides for 8mm Round Rods**
g)	281	1-181.01 **Adapter zinc die for Round Rods**
g)	280	1-181 **Adapter PA for Round Rods**
h)	278	1-170 **Round Rod with Eye**
h)	279	1-180 **Round Rods for Adapter**
f)	291	2-151 **2-, 3- and 4-Point Cam Adapter**
f)	290	2-150 **3-Point Cam**
f)	292	2-151.04 **3-Point Cam Adapter**

Swinghandle RS PrC Stainless Steel

[7-065]

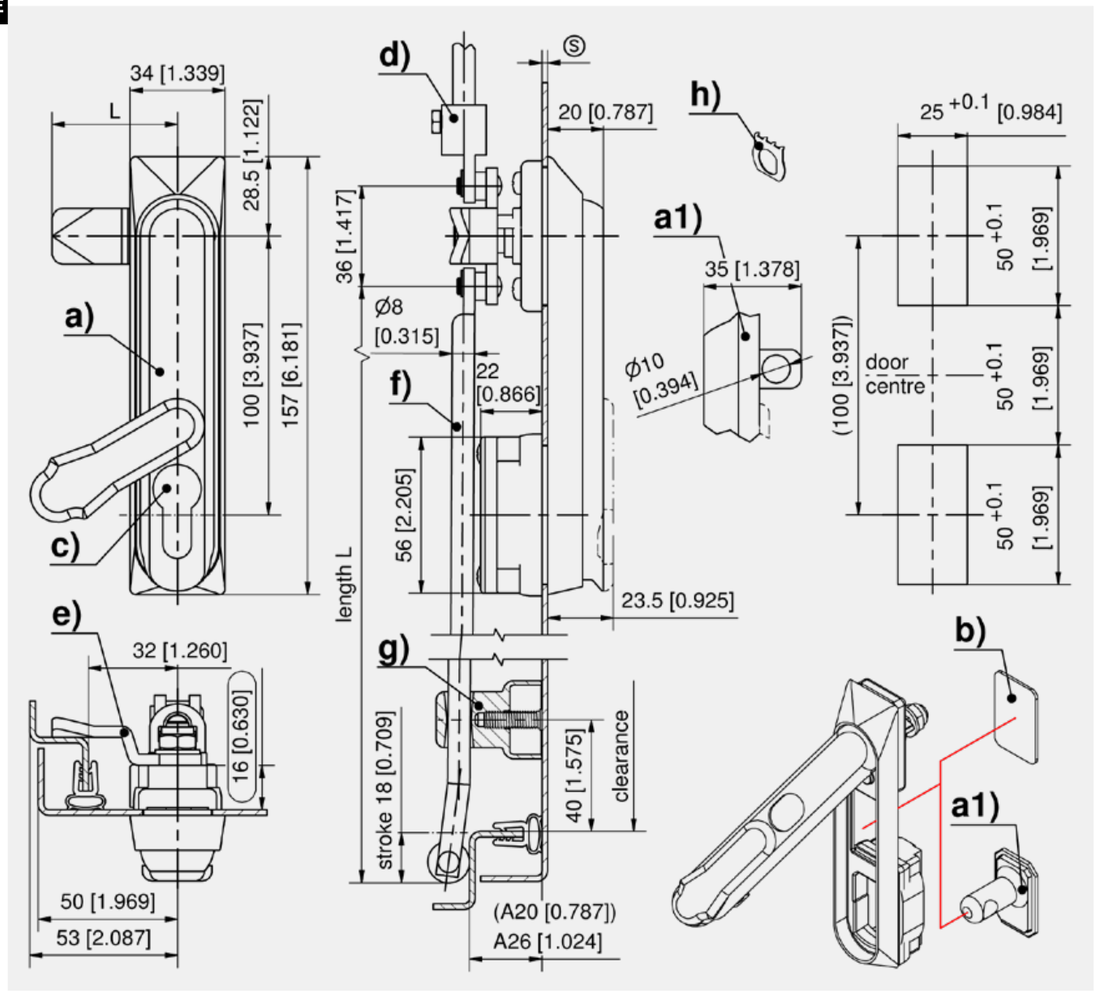


Advantages

- For cutout C and round rods.
- Swinghandle with 90° closing rotation.
- Can be locked with 40mm long profile-cylinders (DIN 18252) with 45° or 90° closing rotation.
- RH / LH application.
- IP65 according to DIN EN 60529.
- The opening in the dish can be filled with a rectangular blanking plate.

Materials

- **Swinghandle, dish, dust cover and blanking plate:** stainless steel AISI 316
- **Cap:** PA, black
- **Swinghandle shaft and padlock bolt:** stainless steel AISI 303
- **Blanking plate:** stainless steel AISI 304



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L=\frac{\text{upper rod clearance-12mm[0.472]}}{2\ [0.079]}-50\ \text{mm}\ [1.969] \qquad L=\frac{\text{lower rod clearance-12mm[0.472]}}{2\ [0.079]}+50\ \text{mm}\ [1.969]$$

cutout outside the door center (rod length equal)

$$L=\frac{\text{clearance-12mm[0.472]}}{2[0.079]}$$

Swinghandle for profile-cylinder

	Part Number	Version	Padlock	Stroke	Installation type
a)	207-9294.00-00000	without cylinder dustcover		18 mm	screw-on
a)	207-9295.00-00000	with cylinder dustcover		18 mm	screw-on
a1)	107-9284.00-00000	without cylinder dustcover	Yes	18 mm	screw-on
a1)	107-9285.00-00000	with cylinder dustcover	Yes	18 mm	screw-on

Accessories Swinghandles

	Part Number	Name	Material
b)	207-2506.80-00000	Blanking plate for opening	Stainless Steel

2-point cam

	Part Number	Stop	Material
e)	207-9598.00-00000	Yes	Stainless Steel

3- or 4-point Cam, L45

	Part Number	A-dimension	Stop	Material
e)	207-9845.00-00022	25 mm	Yes	Stainless Steel
e)	207-9845.00-00028	26 mm	Yes	Stainless Steel

	Accessories
c)	300 2-140 **Profile-Cylinder DIN 18252**
c)	302 7-069 **Profile-Cylinder Stainless Steel**
d)	281 1-181.01 **Adapter zinc die for Round Rods**
f)	282 7-106 **Round Rods Stainless Steel**
g)	284 200-3623.51-00000 **Rod guide**
g)	284 200-3625.51-00000 **Rod guide**
h)	298 3-011 **Grounding clip**

NT Swinghandle RS PrC Stainless Steel [7-066]

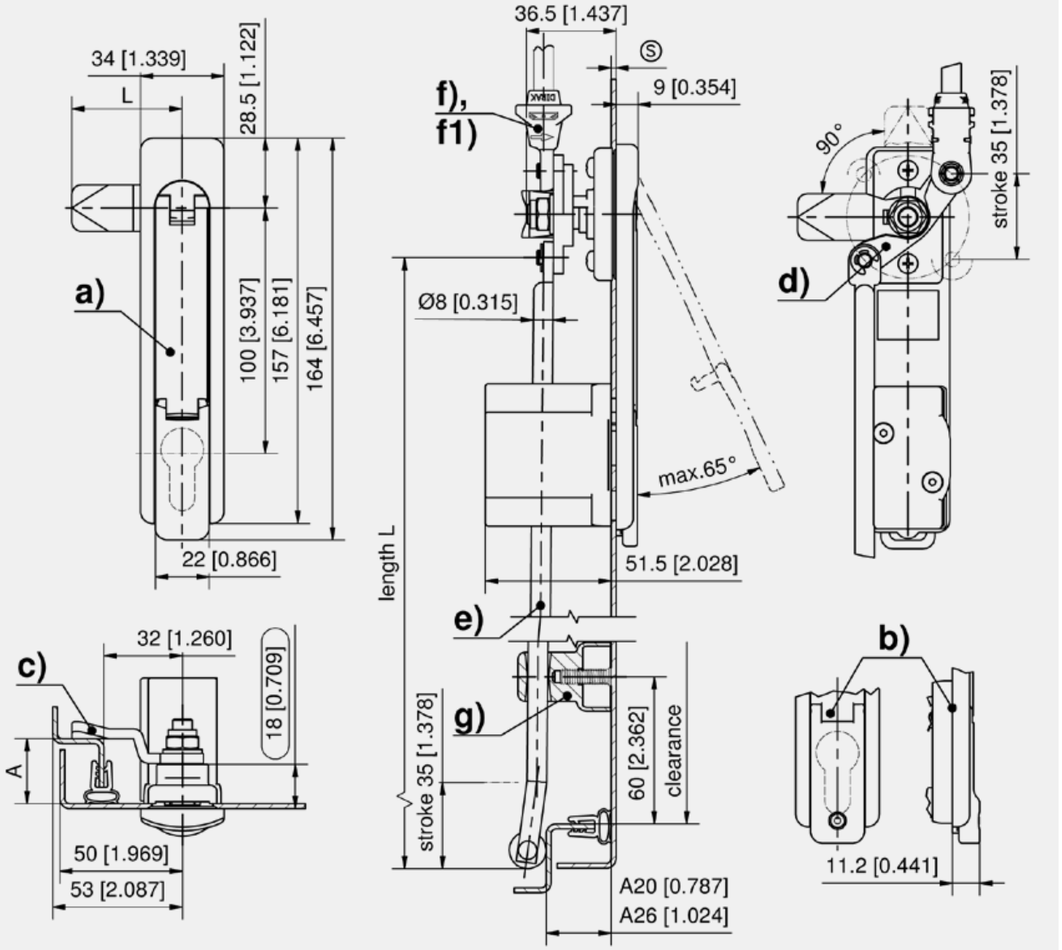


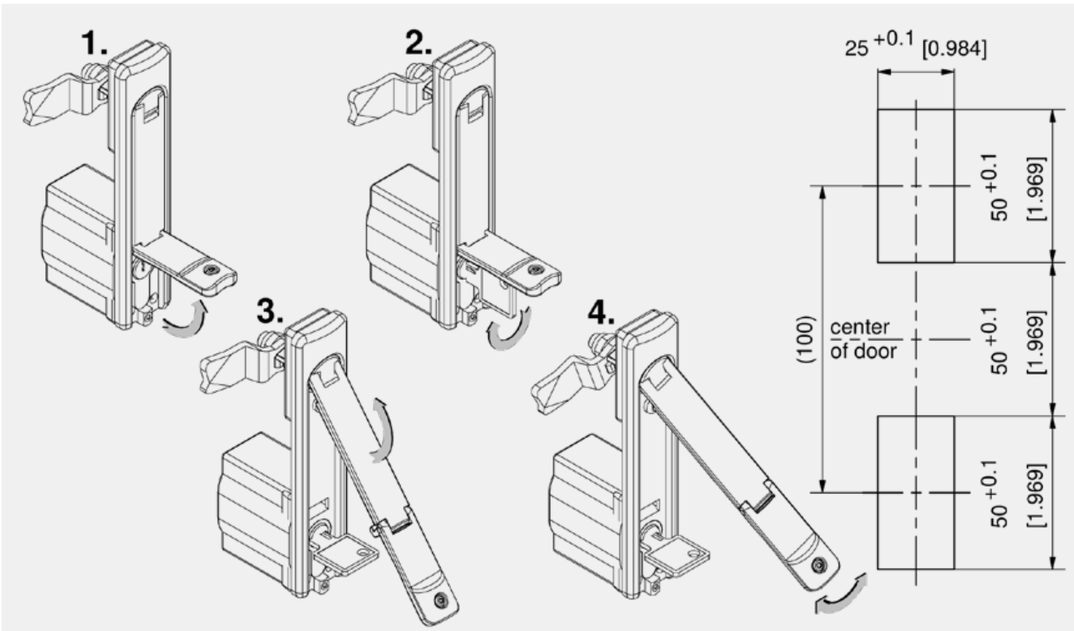
Advantages

- Flush design.
- Extremly narrow gap.
- The flush design prevents this swinghandle being used as climbing support.
- Locking cylinder fitted in the dish and protected against being forced through.
- Bolted internal cap is made of stainless steel.
- IP65 according to DIN EN 60529.
- 135° Swing.
- Stroke 35mm(1.378) by 3-point cam adapter 45°.
- RH / LH application.
- Cylinder cover optional screw down.

Materials

- **Swing handle, dish, cap, rotating disk:** stainless steel AISI 316L
- **Cap sealing and o-ring:** NBR
- **Washer:** PTFE- Teflon
- **Spring:** stainless steel AISI 301
- **Locking bolt:** stainless steel AISI 316
- **Screws, grooved pin, pin with axial knurl and nut:** stainless steel





Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

upper rod: $L=\frac{\text{clearance-12mm[0.472]}}{2\ [0.079]}-50\text{ mm }[1.969]$

lower rod: $L=\frac{\text{clearance-12mm[0.472]}}{2\ [0.079]}+50\text{ mm}[1.969]$

cutout outside the door center (rod length equal)

$L=\frac{\text{clearance-12mm[0.472]}}{2[0.079]}$

Swinghandle for profile cylinder

	Part Number	Version	Stroke	Installation type
a)	307-9302.00-00000		35 mm	screw-on
b)	307-9305.00-00000	cover screw down	35 mm	screw-on

		Accessories
f1)	281	1-181.01 **Adapter zinc die for Round Rods**
f)	280	1-181 **Adapter PA for Round Rods**
e)	282	7-106 **Round Rods Stainless Steel**
c)	162	7-105 **Cams L35/45 Stainless Steel**
d)	296	7-106.01 **Cam Adapter 45° Stainless Steel**
g)	284	200-3623.51-00000 **Rod guide**
g)	284	200-3625.51-00000 **Rod guide**
	301	211-9004.00-00000 **DIRAK Profile-cylinder**
	301	211-9003.00-00000 **DIRAK Profile-cylinder**

Swinghandle RS PrC with Square Threaded Rod [2-092]



Swinghandle with 90° closing rotation.
For 3-point cams / round rods.

Advantages

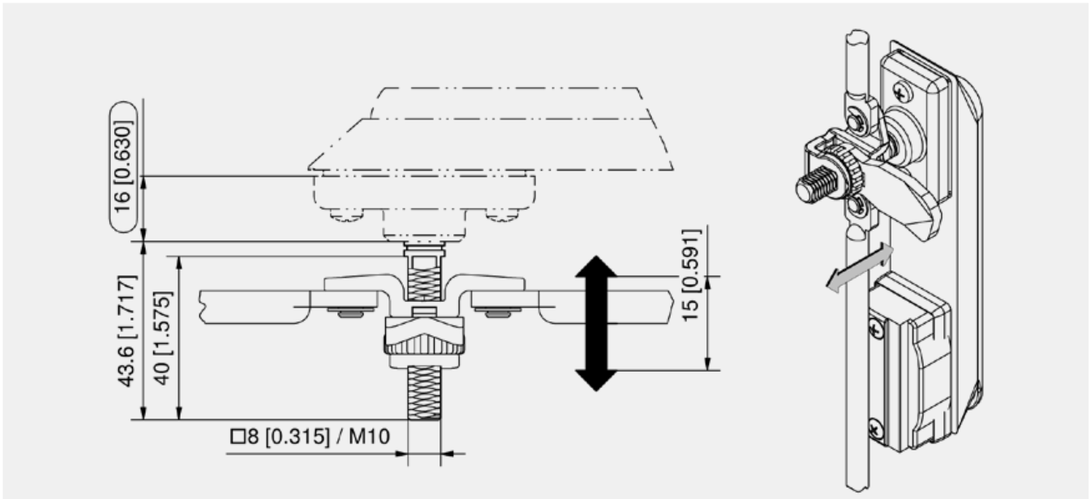
- Square threaded rod 40mm for adjustable single or 3-point cams
- Adjustability of the cam by catch for standard cams 2-151.02 and 3-point cam adapter with knurled wheel 2-151.01.
- Readjustment possible at any time (e.g. compressed sealing).
- IP65 according to DIN EN 60529.
- RH / LH application.
- Pre-assembled without cam.

Materials

- **Handle, dish and cylinder dustcover:** see table
- **Square threaded rod**: zinc die, nickel plated
- **Bearing plate:** zinc die, untreated
- **Cap:** PA 6
- **Sealings:** NBR

Remarks

Further information on the swing handles can be found on pages 2-090, 2-090.01 and 2-090.03. If you need variants which are not listed here, please contact us.



Swinghandle with square threaded rod

Part Number	Latching type	Material handle	Material dish	Dish	Material cylinder cover	Sealable	Padlock bolt
207-9282.00-00040	for PHZ	PA, black	PA, black	with cap (IP65)			
107-9208.00-00040	for PHZ	zinc die, black	zinc die, black	with cap (IP65)	zinc die	Yes	
107-9282.00-00040	for PHZ	zinc die, black	PA, black	with cap (IP65)			Yes
207-9238.00-00040	keyed alike DIRAK 1333	PA, black	PA, black	with cap (IP65)			
207-9244.00-00040	for insert	PA, black	PA, black	with cap (IP65)			
107-9206.00-00040	for insert	zinc die, chrome plated	PA, black	with cap (IP65)			

Accessories

300	2-140 **Profile-Cylinder DIN 18252**
281	1-181.01 **Adapter zinc die for Round Rods**
280	1-181 **Adapter PA for Round Rods**
283	1-191 **Height-adjustable Rod Guide with Knurled Nut**
278	1-170 **Round Rod with Eye**

Function extension

298	3-011 **Grounding clip**

Accessories

279	1-180 **Round Rods for Adapter**
288	1-102 **Cams L35/45 Steel**
294	2-151.01 **3-Point Cam Adapter adjustable**
295	2-151.02 **Catch for standard Cams**



Swinghandle base

See page 242

Swinghandle base

[3-400]



Advantages

- Tool-less assembly.
- Tool-less pre-installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0mm.
- Independent of panel thickness up to 3mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH / LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.
- For profile-cylinder with closing position 6 o'clock.

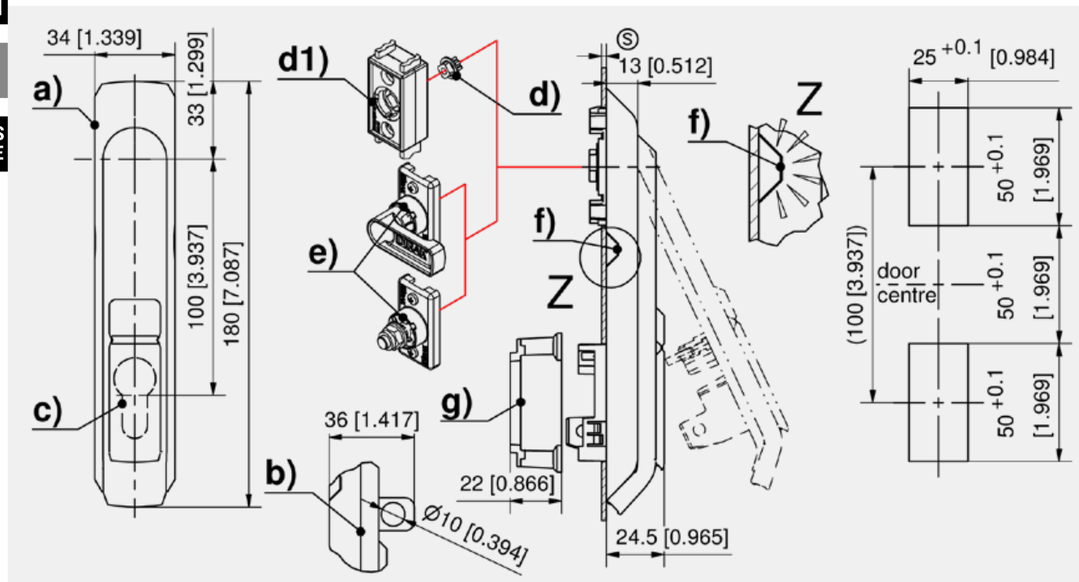
Materials

- **Handle, Dish, cap:** PA, black
- **Cylinder dustcover:** PA, black
- **Padlock bolt:** zinc die, zinc plated
- **Shaft:** Grivory
- **Slam lock:** POM
- **Spring:** steel
- **O-Ring:** NBR

Remarks

f) LED module retrofittable

Padlock version **not** in combination with LED-Module useable



Swinghandle PA, black for profile-cylinder

	Part Number	Version	Latching type	Padlock bolt	Installation type
a)	307-9101.00-00000		profile-cylinder 40mm		screw-on
b)	307-9102.00-00000		profile-cylinder 40mm	Yes	screw-on
a)	307-9103.00-00000	self-locking			screw-on
b)	307-9104.00-00000	self-locking		Yes	screw-on

Specific accessories

e) 3-440 **Bearing Plate RS base**
d) 307-9154.00-00000 **Rod latch adapter**
f) 307-9151.00-00000 **LED Module**
f) 307-9152.00-00000 **LED Module**
c) 3-410 **Carrier base**

Function extension

g) 307-9153.00-00000 **Sealing kit + Cap**

Accessories

d1) 362 3-130 **Rod Latch FS PrC**
c) 301 211-9004.00-00000 **DIRAK Profile-cylinder**
c) 301 211-9003.00-00000 **DIRAK Profile-cylinder**

Swinghandle base with LED Module

[3-400E]



LED module visualises the locking position and regular red flashing indicates open position

Advantages

- Tool-less assembly.
- Tool-less pre-installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0mm.
- Independent of panel thickness up to 3mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH / LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.
- For profile-cylinder with closing position 6 o'clock.

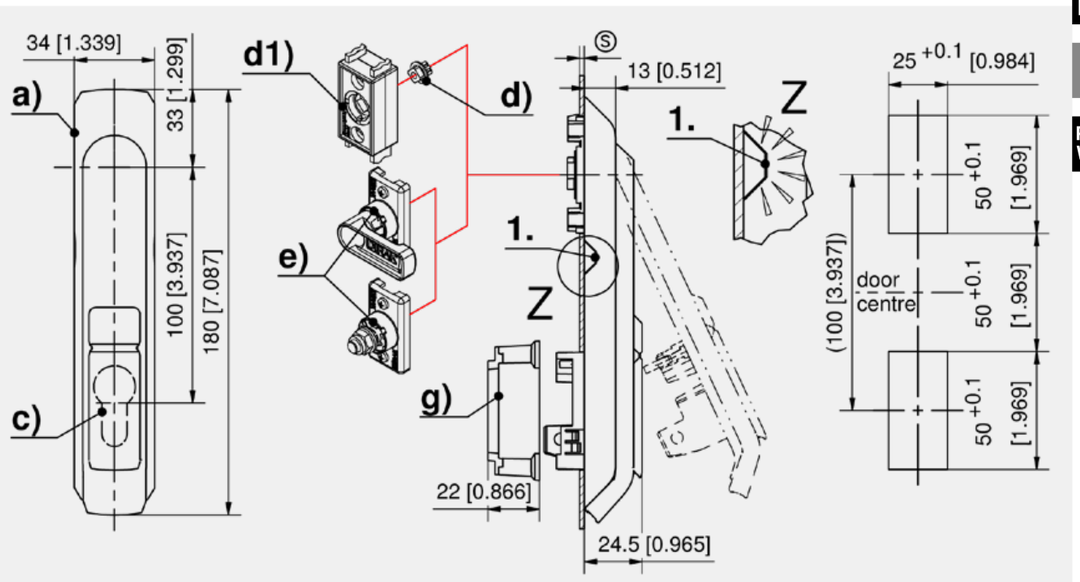
Materials

- **Handle, dish, cap:** PA, black
- **Cylinder dustcover:** PA, black
- **Shaft:** Grivory
- **Slam lock:** POM
- **LED carrier plate:** PMMA
- **Spring:** steel
- **O-ring:** NBR

Remarks

1. = Flashing LED module.

Battery CR2032 3V **not** included



Swinghandle PA, black, for profile-cylinder with LED module

	Part Number	Version	Latching type	Installation type
a)	307-9105.00-00000		profile-cylinder 40mm	screw-on
a)	307-9106.00-00000	self-locking		screw-on

Specific accessories

e) 3-440 **Bearing Plate RS base**
d) 307-9154.00-00000 **Rod latch adapter**
c) 3-410 **Carrier base**

Function extension

g) 307-9153.00-00000 **Sealing kit + Cap**

Accessories

d1) 362 3-130 **Rod Latch FS PrC**
c) 301 211-9004.00-00000 **DIRAK Profile-cylinder**
c) 301 211-9003.00-00000 **DIRAK Profile-cylinder**

Carrier base

[3-410]



Advantages

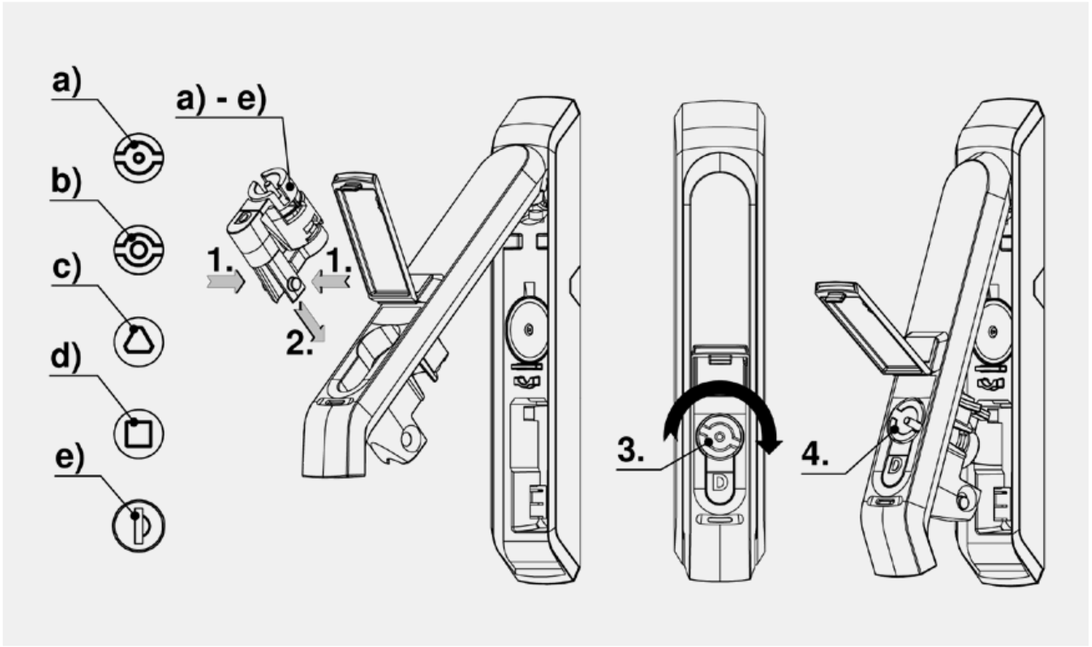
- Carrier for swinghandle base.
- With insert or cylinder barrel.
- Cam moves clockwise from 11 to 12 o'clock.
- Tool-less installation - simply snap into the swinghandle base cutout.

Materials

- **Carrier, insert, cam:** PA, black
- **Cylinder barrel:** zinc die, untreated

Remarks

1. Press the clamp together
2. Push the carrier into the cutout until it audible clicks into place.
3. Turn the insert clockwise up to the stop. Then the final position of the cam is reached.
4. To open the swinghandle the insert has to be turned clockwise by 15° only. The slam lock of the swinghandle always aligns the insert straight.



Carrier with insert

	Part Number	Name	Insert	Installation type
a)	307-9501.00-00000	Profile cylinder with insert	Double bit 3mm pin	tool-less
b)	307-9502.00-00000	Profile cylinder with insert	Double bit 5mm pin	tool-less
c)	307-9503.00-00000	Profile cylinder with insert	Triangular 8mm	tool-less
d)	307-9504.00-00000	Profile cylinder with insert	Square 8mm	tool-less

Carrier with cylinder barrel

	Part Number	Name	Latching type	Installation type
e)	307-9505.00-01333	Profile cylinder with cylinder barrel	keyed alike DIRAK 1333	tool-less
e)	307-9506.00-09999	Profile cylinder with cylinder barrel	keyed different	tool-less

Bearing Plate RS base

[3-440]



Advantages

- RH / LH application.
- Pre-installation onto swinghandle base by clip-on.
- Final fastening by screws.
- **a)** Bearing plate for single-point latching system with PA cam (H20 / H26) for swinghandle base.
- Assembly of the cam by bayonet system clicks in audible.
- **b)** Bearing plate with adapter for single- or multi-point locking system for standard cams and 3-point cam adapter.
- Cams will be secured by self-securing nut M8 onto the square (max. bolting torque 4Nm).

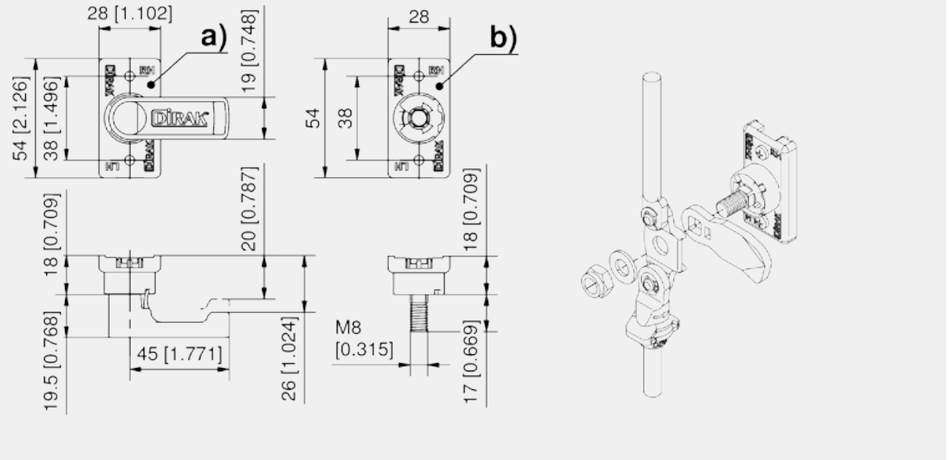
Materials

- **Bearing plate and cam:** PA, black
- **Adapter:** zinc die, untreated

Remarks

Independent of panel thickness from 0.5 to 3mm.

Fastening screws included.



Bearing plate

	Part Number	Version
a)	308-9007.00-00000	with cam H20
a)	308-9008.00-00000	with cam H26
b)	308-9006.00-00000	with adapter

	Accessories
284	1-190 **Rod Guides for 8mm Round Rods**
281	1-181.01 **Adapter zinc die for Round Rods**
280	1-181 **Adapter PA for Round Rods**
278	1-170 **Round Rod with Eye**
279	1-180 **Round Rods for Adapter**
288	1-102 **Cams L35/45 Steel**
291	2-151 **2-, 3- and 4-Point Cam Adapter**
292	2-151.04 **3-Point Cam Adapter**

Swinghandle RS 90

[2-120]



for cutout 90, for round rods, for profile-cylinder

Advantages

- Low profile swinghandle for sheet metal and plastic enclosures.
- RH / LH application.
- The polyamide handle is fully insulated.
- The Swinghandle has a 90° rotation and is locked by a profile-cylinder according to DIN 18252, a cylinder or an insert.
- IP65 according to DIN EN 60529.
- **Please note:** When using the adapter ring, the swinghandle is no longer water- and dust-tight according to IP65 standards.

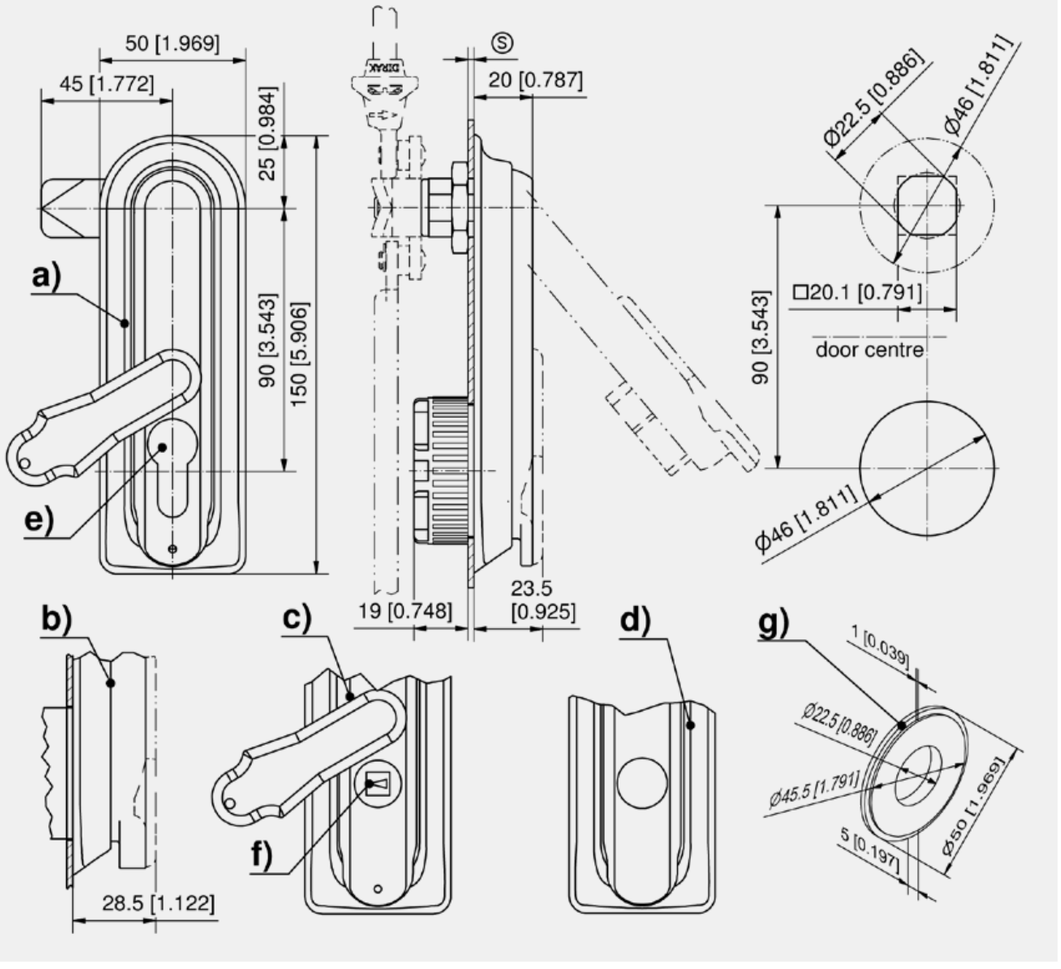
Materials

a) - d)

- **Swinghandle:** PA, black
- **Dish:** PA, black
- **Cover:** PA, black or zinc die, black
- **Cap:** PA, black

g)

- **Adapter:** zinc die, untreated



Swinghandle for profile-cylinder 40mm

	Part Number	Version	Material cylinder cover	Rainforced dustcover	Stroke	Installation type
a)	107-9401.00-00000	without cylinder dustcover			18 mm	screw-on
a)	107-9402.00-00000	with cylinder dustcover	PA		18 mm	screw-on
a)	107-9403.00-00000	with cylinder dustcover	PA	Yes	18 mm	screw-on
a)	107-9404.00-00000	with cylinder dustcover	zinc die		18 mm	screw-on

Swinghandle for profile-cylinder 45mm

	Part Number	Version	Material cylinder cover	Rainforced dustcover	Stroke	Installation type
b)	107-9405.00-00000	without cylinder dustcover			18 mm	screw-on
b)	107-9406.00-00000	with cylinder dustcover	PA		18 mm	screw-on
b)	107-9407.00-00000	with cylinder dustcover	PA	Yes	18 mm	screw-on
b)	107-9408.00-00000	with cylinder dustcover	zinc die		18 mm	screw-on

Swinghandle for inserts

	Part Number	Version	Material cylinder cover	Rainforced dustcover	Stroke	Installation type
c)	107-9422.00-00000	without cylinder dustcover			18 mm	screw-on
c)	107-9423.00-00000	with cylinder dustcover	PA		18 mm	screw-on
c)	107-9424.00-00000	with cylinder dustcover	PA	Yes	18 mm	screw-on
c)	107-9425.00-00000	with cylinder dustcover	zinc die		18 mm	screw-on

Swinghandle clip-in, handle closed

	Part Number	Version	Stroke	Installation type
d)	107-9421.00-00000	without lock	18 mm	screw-on

		Accessories
e)	300	2-140 **Profile-Cylinder DIN 18252**
f)	299	2-141 **Inserts**
o)	286	1-192 **Rod Guides**
o)	285	1-193 **Rod Guide RS**
o)	284	1-190 **Rod Guides for 8mm Round Rods**
m)	281	1-181.01 **Adapter zinc die for Round Rods**
m)	280	1-181 **Adapter PA for Round Rods**
o)	283	1-191 **Height-adjustable Rod Guide with Knurled Nut**
n)	278	1-170 **Round Rod with Eye**
n)	279	1-180 **Round Rods for Adapter**
i)	291	2-151 **2-, 3- and 4-Point Cam Adapter**
i)	290	2-150 **3-Point Cam**
i)	292	2-151.04 **3-Point Cam Adapter**
g)	207-2701.03-00000	**Adapter for cutout Ø46mm**
g)	207-2804.00-00000	**Gasket for adapter Ø46**

Swinghandle RS 105 for PHZ and KABA-Cylinder [2-100.01]



for cutout 105, for round rods, for profile-cylinder

Advantages

- Swinghandle with closing rotation 90°.
- RH / LH application.
- Fully insulated.
- IP65 according to DIN EN 60529.
- Profile-cylinder according to DIN 18252.
- Use of KABA-cylinder.
- Use of Padlocks.

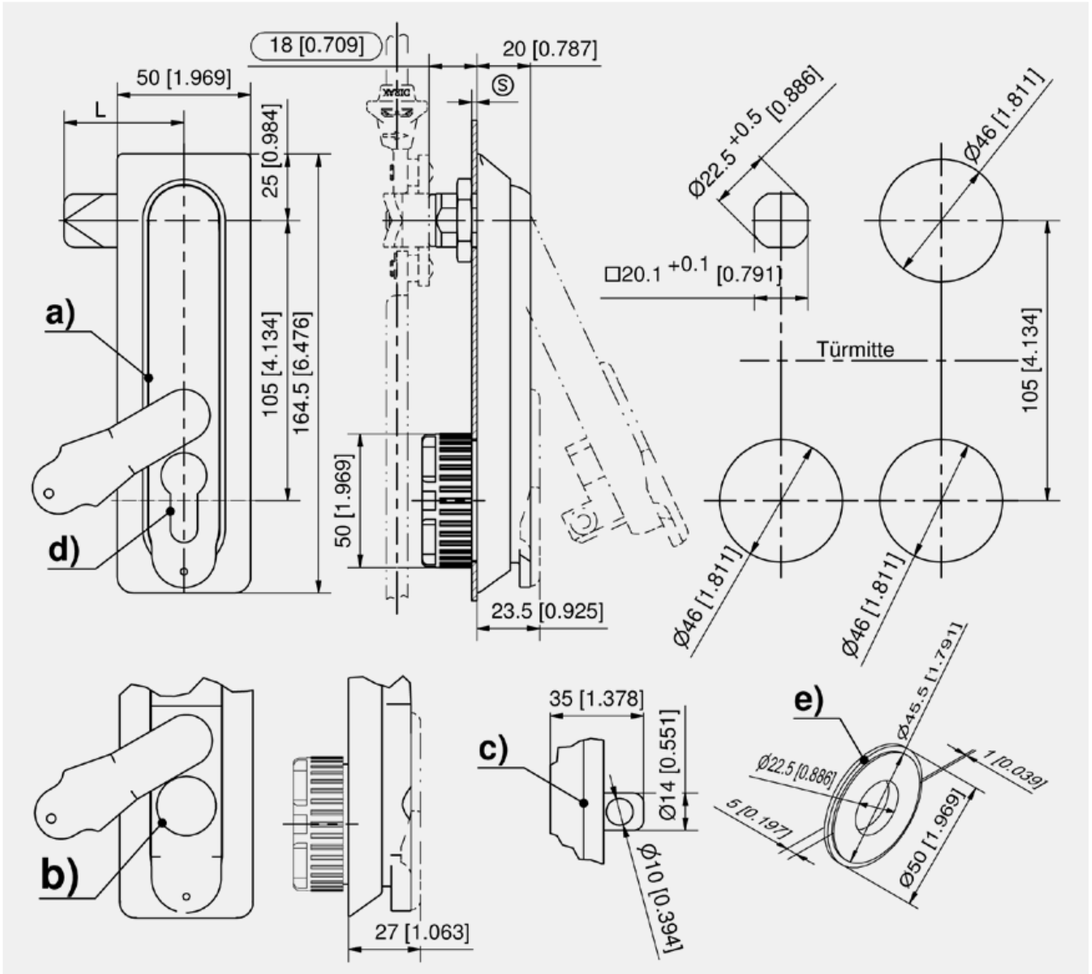
Materials

a), b) and c)

- **Swinghandle:** PA, black or grey RAL 7032
- **Padlock:** stainless steel

Remarks

Please note: When using the adapter 207-2701.03-00000 the swinghandle is **no** longer water- and dust-tight according to IP65 standards



Swinghandle PA, black for profile-cylinder

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
a)	207-9101.00-00000	Ø46			screw-on
a)	207-9102.00-00000	Ø46	PA	Yes	screw-on
a)	207-9103.00-00000	Ø46	PA	Yes	screw-on

Swinghandle PA, black, for KABA-cylinder

	Part Number	Internal cover	Material cylinder cover	Rainforced dustcover	Sealable	Installation type
b)	207-9109.00-00000	Ø46				screw-on
b)	207-9110.00-00000	Ø46	PA		Yes	screw-on
b)	207-9111.00-00000	Ø46	PA	Yes	Yes	screw-on

Swinghandle PA, grey RAL 7032, for KABA-cylinder

	Part Number	Internal cover	Material cylinder cover	Rainforced dustcover	Sealable	Installation type
b)	207-7080.00-00000	Ø46				screw-on
b)	207-7043.00-00000	Ø46	PA		Yes	screw-on
b)	207-7081.00-00000	Ø46	PA	Yes	Yes	screw-on

Swinghandle PA, black, for profile-cylinder and padlock

	Part Number	Internal cover	Padlock bolt	Installation type
c)	207-9112.00-00000	Ø46	Yes	screw-on

	Accessories
d)	300 2-140 **Profile-Cylinder DIN 18252**
i)	286 1-192 **Rod Guides**
i)	285 1-193 **Rod Guide RS**
i)	284 1-190 **Rod Guides for 8mm Round Rods**
g)	281 1-181.01 **Adapter zinc die for Round Rods**
g)	280 1-181 **Adapter PA for Round Rods**
i)	283 1-191 **Height-adjustable Rod Guide with Knurled Nut**
h)	278 1-170 **Round Rod with Eye**
h)	279 1-180 **Round Rods for Adapter**
f)	288 1-102 **Cams L35/45 Steel**
f)	291 2-151 **2-, 3- and 4-Point Cam Adapter**
f)	290 2-150 **3-Point Cam**
e)	207-2701.03-00000 **Adapter for cutout Ø46mm**
e1)	207-2804.00-00000 **Gasket for adapter Ø46**

Swinghandle RS 105 for PHZ, RC II

[2-102]

RC2

IP 65

RoHS WEEE



Advantages

- Swinghandle with liftable operating lever, 90° rotation.
- For profile-cylinders 40 and 45mm.
- 1. If a profile-cylinder 40mm is used, the cylinder is located 5mm lower in the operating lever.
- Lockable with profile-cylinder 45° or 90° cam position.
- RH / LH application.
- Complies with security test DIN EN 1630 RCII.
- Secured with a bolt against vandalism.
- Saw up difficult because of steel insert (HRC 45).
- IP65 according to DIN EN 60529.

Materials

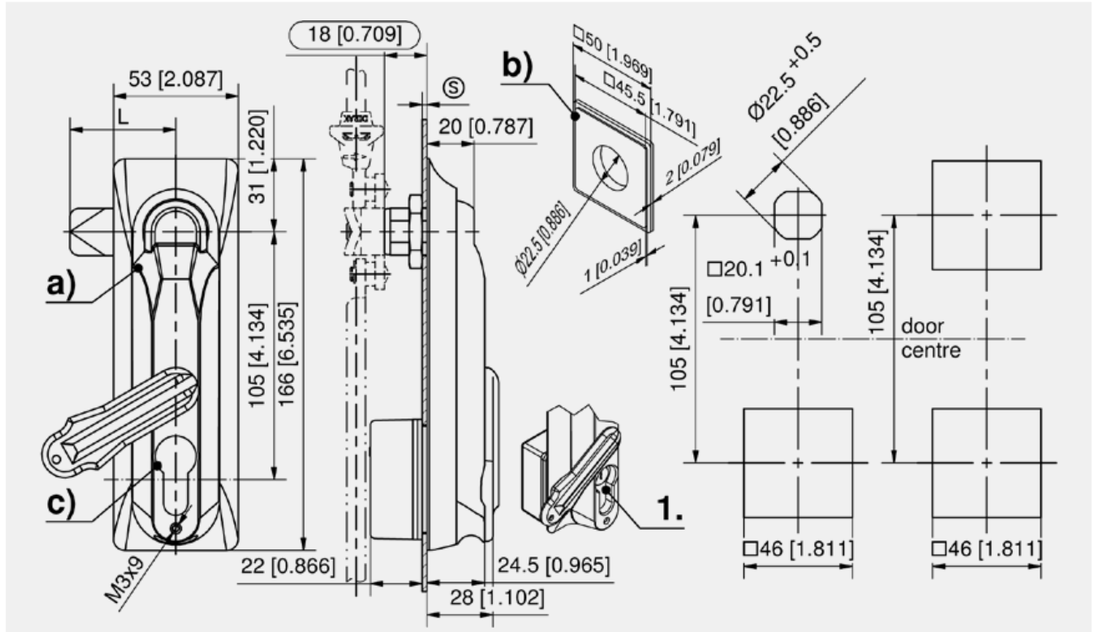
- **Swinghandle, fastener, dish, dust cover and cap:** zinc die, black
- **Bolt:** stainless steel AISI 316
- **Shaft:** brass
- **Washer, nut and screw:** steel, zinc plated
- **Flat external seal:** NBR/ Fiber

Remarks

To get the same design for RH and LH doors it is possible to make two cutouts with □46 symmetrically to the middle of the door.

s = max. 3mm

For Swinghandles with mechatronic locking control see www.elinebydirak.de.



Swinghandle zinc die, black for PHZ, RC II tested

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
a)	207-9129.00-00000	□46	zinc die	Yes	screw-on

	Accessories
i)	286 1-192 **Rod Guides**
i)	285 1-193 **Rod Guide RS**
i)	284 1-190 **Rod Guides for 8mm Round Rods**
g)	281 1-181.01 **Adapter zinc die for Round Rods**
g)	280 1-181 **Adapter PA for Round Rods**
i)	283 1-191 **Height-adjustable Rod Guide with Knurled Nut**
h)	278 1-170 **Round Rod with Eye**
h)	279 1-180 **Round Rods for Adapter**

	Accessories
f)	288 1-102 **Cams L35/45 Steel**
f)	291 2-151 **2-, 3- and 4-Point Cam Adapter**
f)	290 2-150 **3-Point Cam**
c)	301 211-9004.00-00000 **DIRAK Profile-cylinder**
c)	301 211-9003.00-00000 **DIRAK Profile-cylinder**
b1)	207-2803.00-00000 **Gasket for adapter □46mm**
b)	602-0016.35-00000 **Square adapter**



Swinghandle zinc die RS 105 for PHZ, RC II

See page 252

Swinghandle zinc die RS 105 for PHZ, RC II [2-103]

RC2 | DIN 61373 | R L | IP 65 | RoHS WEEE



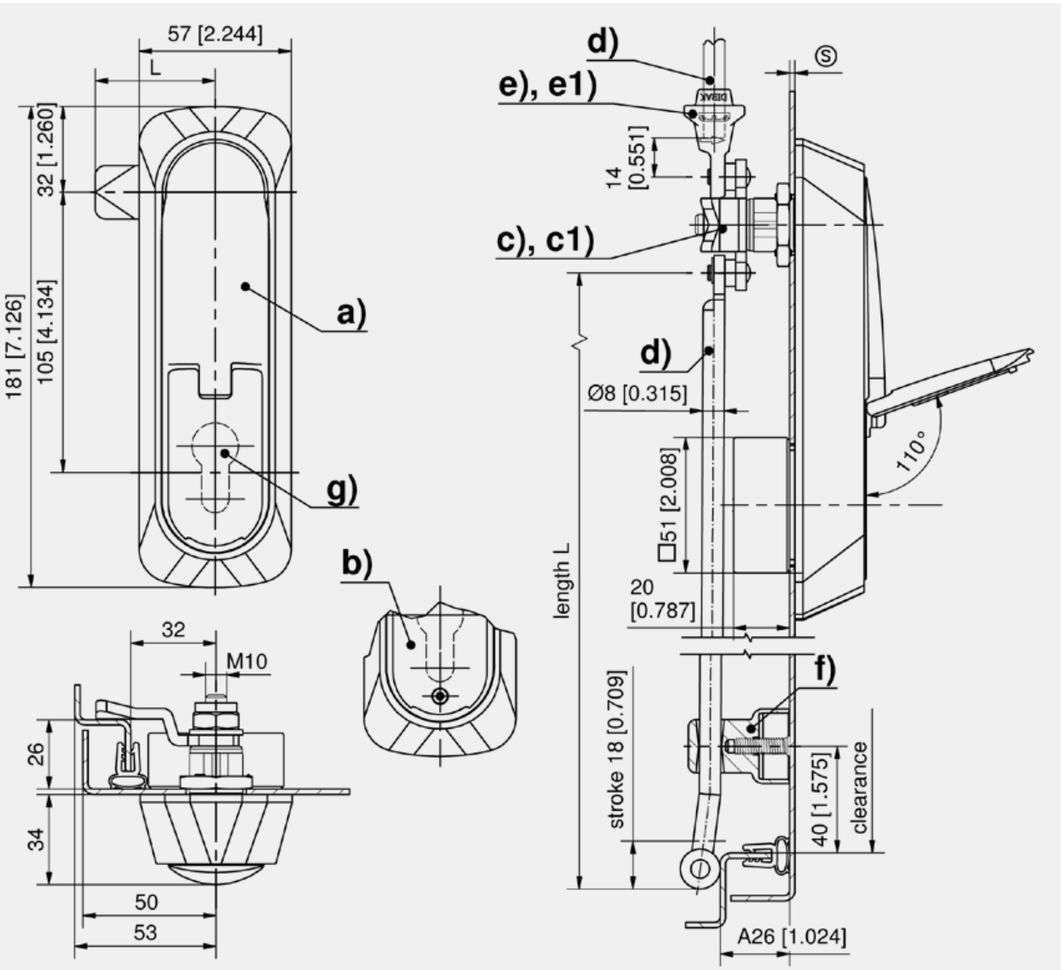
Swinghandle zinc die, black for profile cylinder, RCII testet, 90° closing rotation. For metal and plastic enclosures

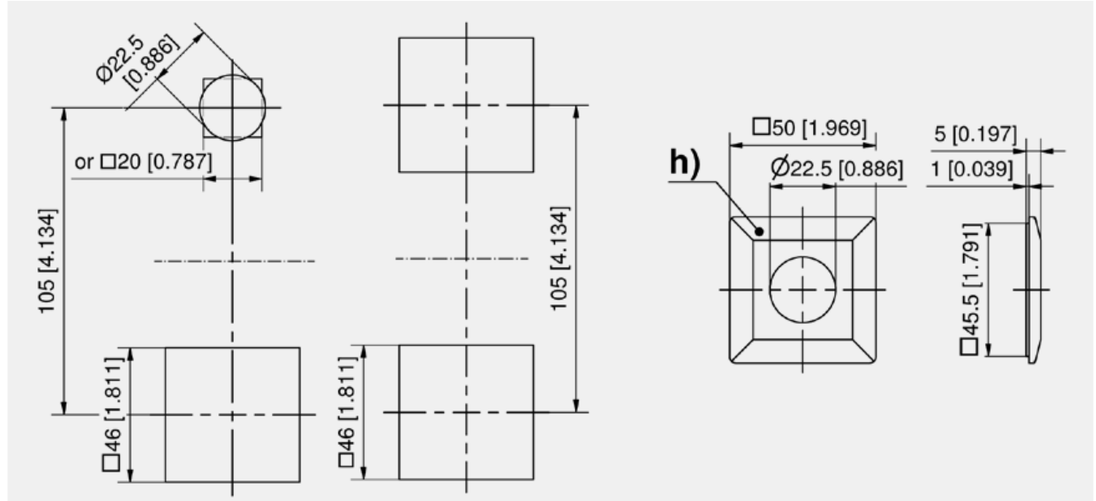
Advantages

- RH / LH application.
- Protected against unauthorized access by a bolt.
- Spring loaded, leap up handle.
- For profile-cylinders with length of 40 and 45 mm.
- Cylinder cover magnetically secured.
- IP65 according to DIN EN 60529.
- Tested according to security class RCII (DIN EN 1630).
- Vibration-proof according to DIN EN 61373.
- To use the same door both RH and LH, 2 holes ☐46, symmetrical to door center are possible.
- (S) max. 3 mm.

Materials

- **Swinghandle, dish, dust cover and cap:** zinc die, black





Swinghandle zinc die, black for PHZ, RC II tested

	Part Number	Internal cover	Material cylinder cover	Installation type
a)	207-9130.00-00000	☐46	zinc die	screw-on
b)	207-9131.00-00000	☐46	zinc die screwable	screw-on

		Accessories
g)	300	2-140 **Profile-Cylinder DIN 18252**
e); g)	281	1-181.01 **Adapter zinc die for Round Rods**
e); g)	280	1-181 **Adapter PA for Round Rods**
d); h)	278	1-170 **Round Rod with Eye**
d); h)	279	1-180 **Round Rods for Adapter**
f)	284	200-3625.51-00000 **Rod guide**
c)	290	207-9528.00-00000 **3-point cam**
c1)	290	207-9599.00-00000 **2-point cam**
h1)		207-2803.00-00000 **Gasket for adapter ☐46mm**
h)		602-0016.35-00000 **Square adapter**

Dual Cylinder Swinghandle RS 105, RC II [2-126.01]

RC2

DIN 61373

R L

IP 65

RoHS WEEE



Advantages

- Dual Cylinder Swinghandle with pivotable operating lever.
- Complies with security test to DIN EN 1630 RCII.
- Two profile-cylinders with length of 40 and / or 45mm, allow opening by each cylinder without unlocking the other one.
- The handle can be locked without using a key.
- Vibration-proof according to DIN EN 61373.
- IP65 according to DIN EN 60529.
- Including steel insert (saw protection).
- To use the same door both RH and LH, 2 holes ☐46, symmetrical to door center are possible.
- Logo (1.) on handle on request.

Materials

- **Swinghandle and dish:** zinc die, ZL 0430, black
- Other surfaces on request!

a), b) and d)

- **3- and 2-point cam and round rods:** steel, zinc plated

e)

- **Adapter:** zinc die, zinc plated

f)

- **Rod guide:** PA, black

g)

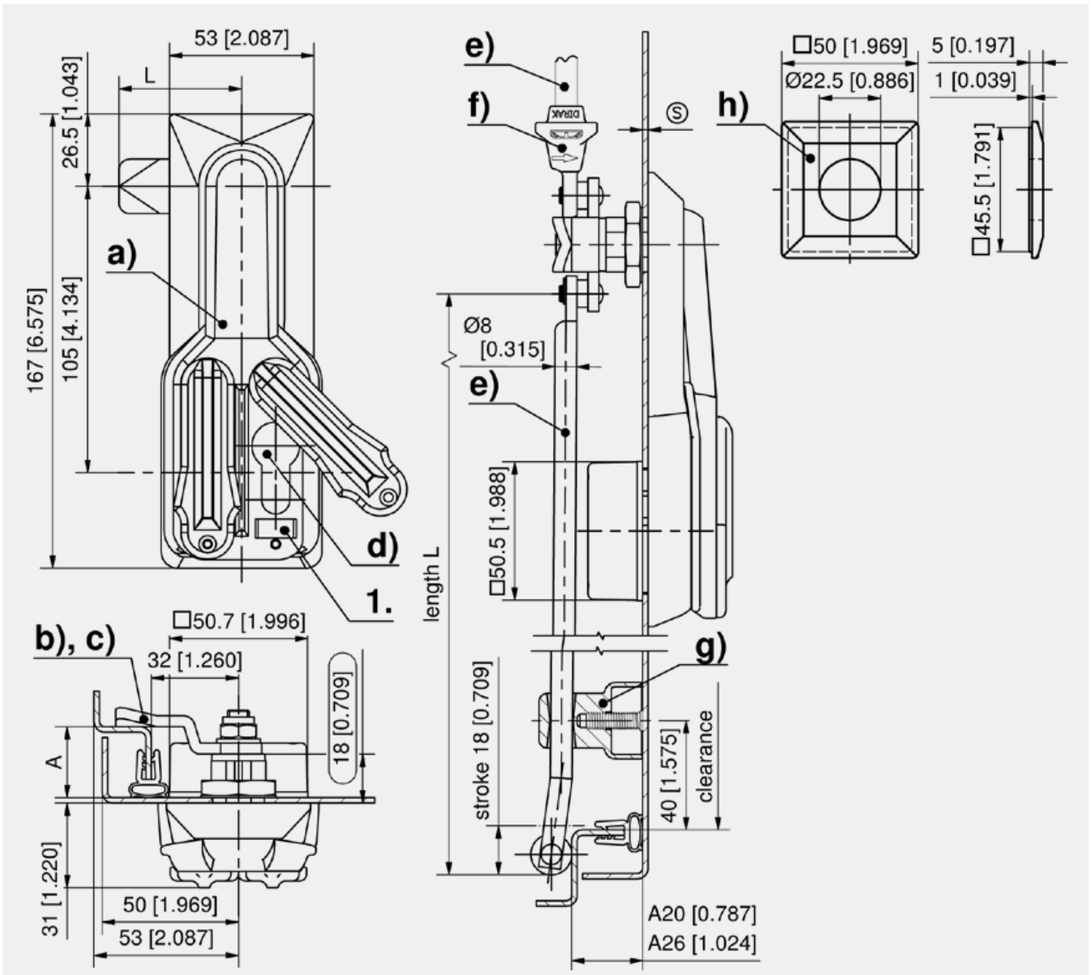
- **Square adapter:** PA, black

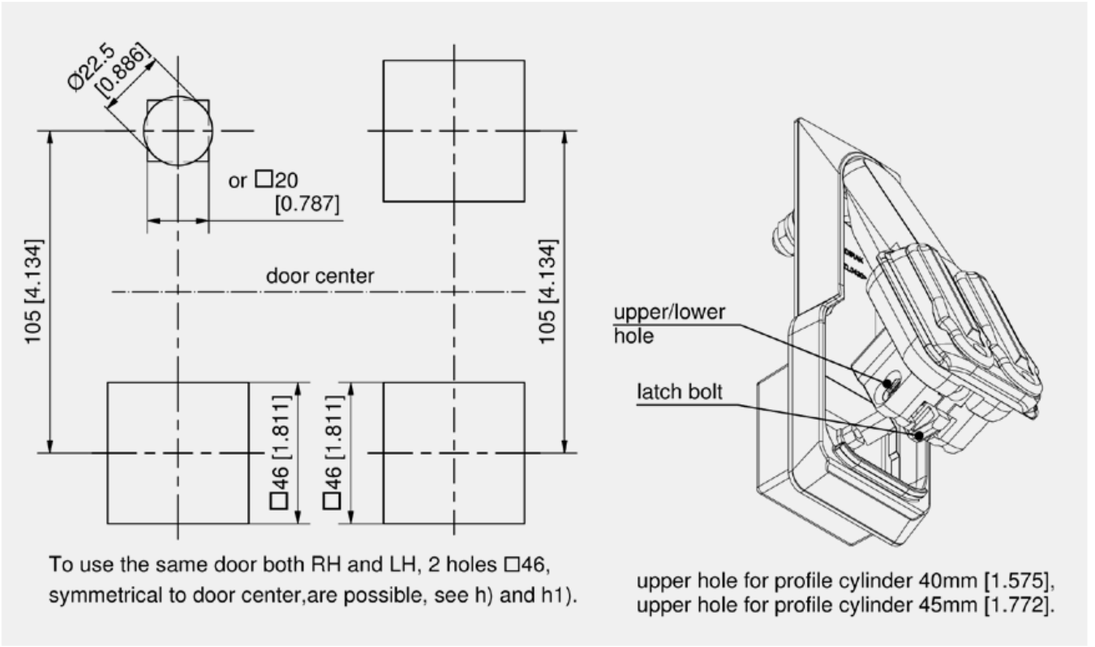
g1)

- **Flat external seal:** sponge rubber, pure

h)

- **Building key:** PS, black





To use the same door both RH and LH, 2 holes ☐46, symmetrical to door center,are possible, see h) and h1).

upper hole for profile cylinder 40mm [1.575], upper hole for profile cylinder 45mm [1.772].

Dual Cylinder Swinghandle RS 105, RC II

	Part Number	Internal cover	Material cylinder cover	Sealable	Stroke	Installation type
a)	207-9614.00-00000	☐46	zinc die	Yes	18 mm	screw-on

		Accessories
d)	300	2-140 **Profile-Cylinder DIN 18252**
f); g)	281	1-181.01 **Adapter zinc die for Round Rods**
f); g)	280	1-181 **Adapter PA for Round Rods**
e); h)	278	1-170 **Round Rod with Eye**
e); h)	279	1-180 **Round Rods for Adapter**
g)	284	200-3623.51-00000 **Rod guide**
g)	284	200-3625.51-00000 **Rod guide**
	759	204-0301.00-00000 **PZ building key**
b)	290	207-9522.00-00000 **3-point cam**
b)	290	207-9528.00-00000 **3-point cam**
c)	290	207-9599.00-00000 **2-point cam**
h)		207-2702.03-00000 **Adapter for cutout ☐46mm**
h1)		207-2803.00-00000 **Gasket for adapter ☐46mm**

Dual Cylinder Swinghandle RS 105 PA [2-126.03]



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets

Advantages

- Two profile-cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without un locking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

Materials

a) and b)

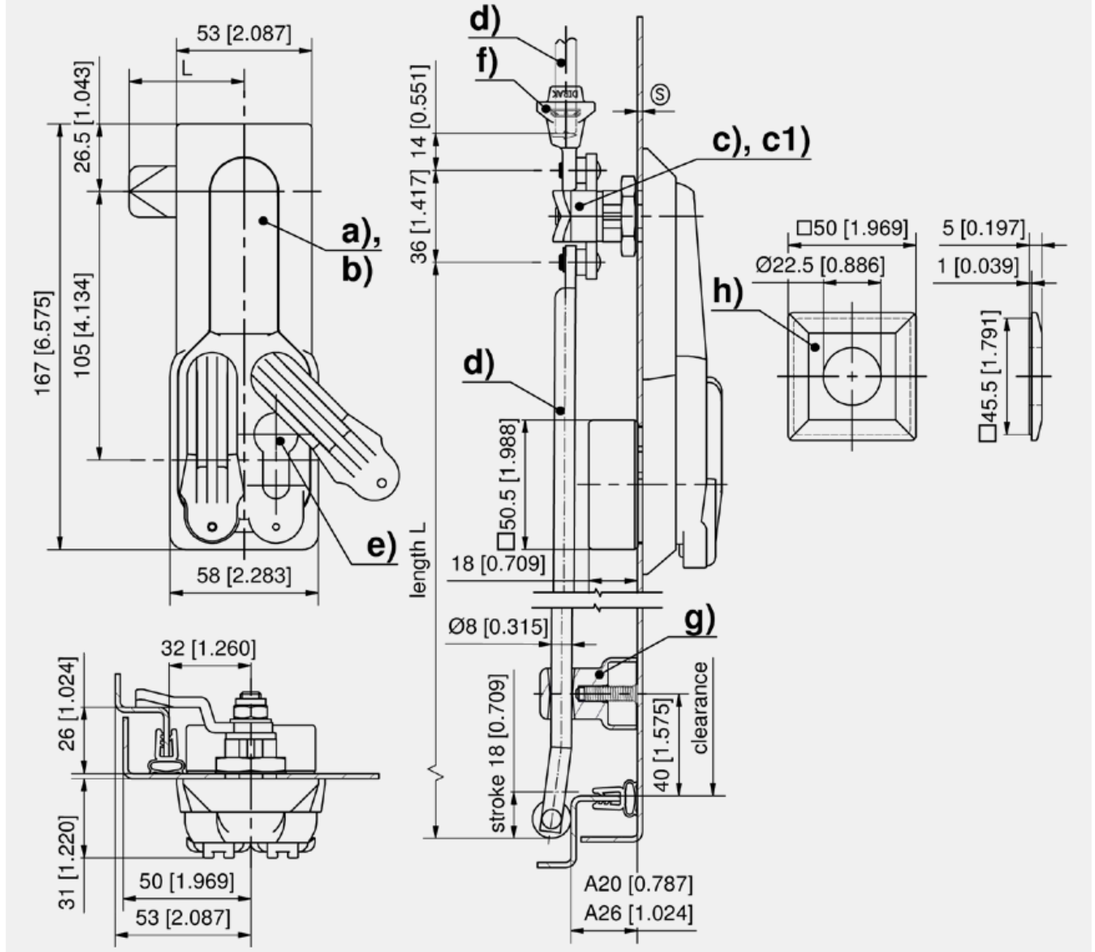
- **Swinghandle and dish:** PA, black

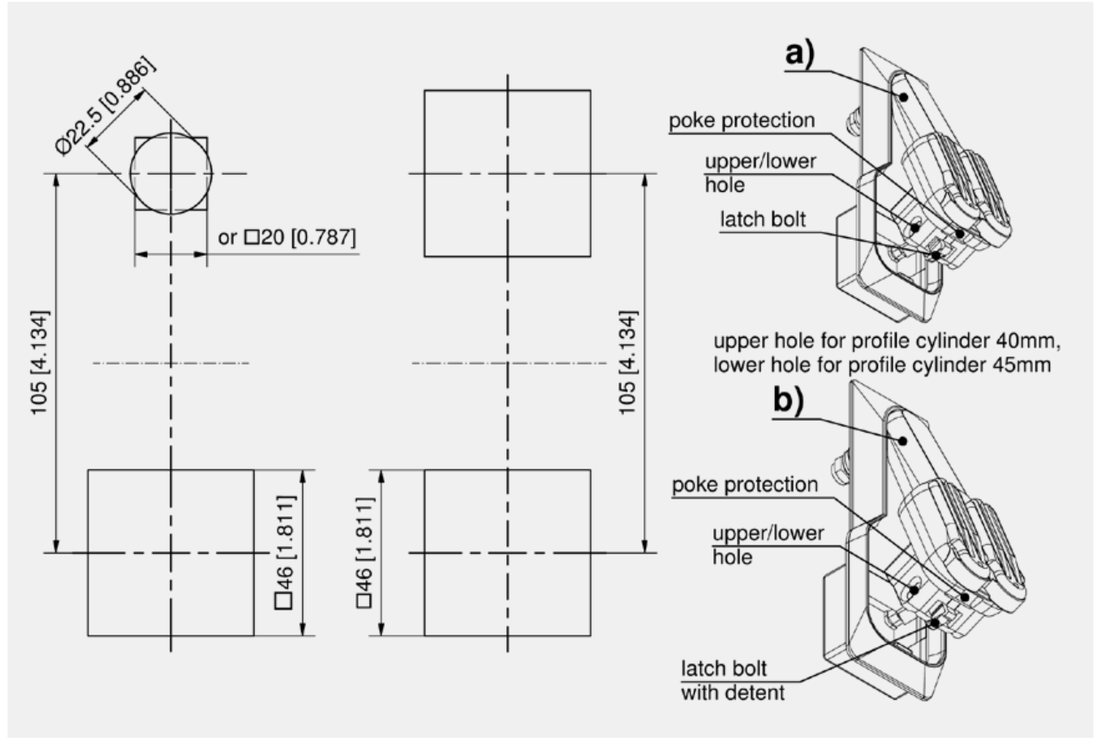
Remarks

(S) = max. 3 mm.

To use the same door both RH and LH, 2 holes □46, symmetrical to door center are possible.

Upgrading with steel insert (saw protection) possible.





Dual cylinder swinghandle

	Part Number	Internal cover	Material cylinder cover	Sealable	Version
a)	207-9617.00-00000	□46	PA, reinforced	Yes	Latch bolt without detent
b)	207-9618.00-00000	□46	PA, reinforced	Yes	Latch bolt with detent

		Accessories
e)	300	2-140 **Profile-Cylinder DIN 18252**
f); g)	281	1-181.01 **Adapter zinc die for Round Rods**
f); g)	280	1-181 **Adapter PA for Round Rods**
d); h)	278	1-170 **Round Rod with Eye**
d); h)	279	1-180 **Round Rods for Adapter**
c); f)	290	2-150 **3-Point Cam**
g)	284	200-3623.51-00000 **Rod guide**
	759	204-0301.00-00000 **PZ building key**
c1)	290	207-9599.00-00000 **2-point cam**
h)		207-2702.03-00000 **Adapter for cutout □46mm**
h1)		207-2803.00-00000 **Gasket for adapter □46mm**

Swinghandle RS 130 for PHZ

[2-100.02]



for cutout 130, for round rods, for profile-cylinder

Advantages

- Swinghandle with closing rotation 90°.
- RH / LH application.
- The polyamide handle is fully insulated.
- IP65 according to DIN EN 60529.
- Cutout Ø46mm or □46mm.
- Profile-cylinder according to DIN 18252.
- Use of KABA-cylinder on request.
- Use of padlocks.

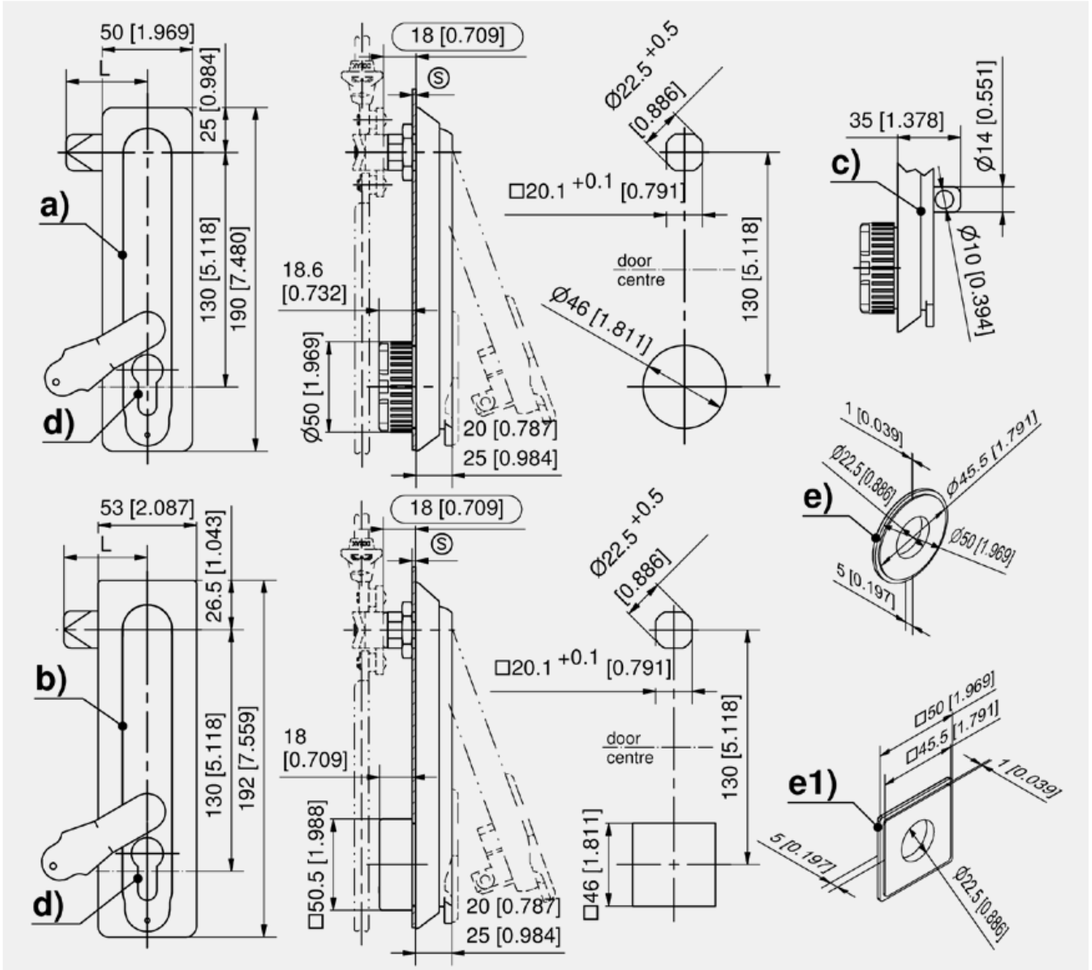
Materials

a), b) and c)

- **Swinghandle:** zinc die, black or PA, black
- **Padlock eye:** stainless steel

Remarks

Please note:
When using the adapter Ø46mm 207-2701.03-00000 or □46mm 207-2702.03-00000 the swinghandle is **no longer** water- and dust-tight according to IP65 standards



Swinghandle PA, black, for profile-cylinder, Ø46

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
a)	207-9001.00-00000	Ø46			screw-on
a)	207-9002.00-00000	Ø46	PA	Yes	screw-on
a)	207-9003.00-00000	Ø46	PA	Yes	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, Ø46

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
a)	207-9004.00-00000	Ø46	PA	Yes	screw-on
a)	207-9008.00-00000	Ø46			screw-on
a)	207-9009.00-00000	Ø46	PA	Yes	screw-on

Swinghandle PA, black, for profile-cylinder, □46

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
b)	207-9311.00-00000	□46			screw-on
b)	207-9312.00-00000	□46	PA	Yes	screw-on
b)	207-9313.00-00000	□46	PA	Yes	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, □46

	Part Number	Internal cover	Material cylinder cover	Sealable	Installation type
b)	207-9314.00-00000	□46	PA	Yes	screw-on

Swinghandle PA, black, for profile-cylinder and padlock

	Part Number	Internal cover	Padlock bolt	Installation type
c)	207-9006.00-00000	Ø46	Yes	screw-on

	Accessories
d)	300 2-140 **Profile-Cylinder DIN 18252**
g)	281 1-181.01 **Adapter zinc die for Round Rods**
g)	280 1-181 **Adapter PA for Round Rods**
h)	278 1-170 **Round Rod with Eye**
h)	279 1-180 **Round Rods for Adapter**
i)	286 1-192 **Rod Guides**
i)	285 1-193 **Rod Guide RS**
i)	284 1-190 **Rod Guides for 8mm Round Rods**
i)	283 1-191 **Height-adjustable Rod Guide with Knurled Nut**
f)	288 1-102 **Cams L35/45 Steel**
f)	167 1-262 **Cam variable**
f)	291 2-151 **2-, 3- and 4-Point Cam Adapter**
f)	290 2-150 **3-Point Cam**
e)	207-2701.03-00000 **Adapter for cutout Ø46mm**
e1)	207-2702.03-00000 **Adapter for cutout □46mm**
e)	207-2804.00-00000 **Gasket for adapter Ø46**

Swinghandle RS 130 for Rod Latch PrA

[2-110]



Advantages

- Swinghandle for cutout 130.
- For sheet metal and plastic enclosures.
- 135° rotation.
- RH / LH application.
- The polyamide handle is fully insulated.
- The Swinghandle can be locked with profile-cylinders with 45° or 90° cylinder cam feature.
- By using the lock support d), the assembly of the rod latch PrA is possible.
- IP65 according to DIN EN 60529.

Materials

a) - c)

- **Swinghandle:** see table

d) and e)

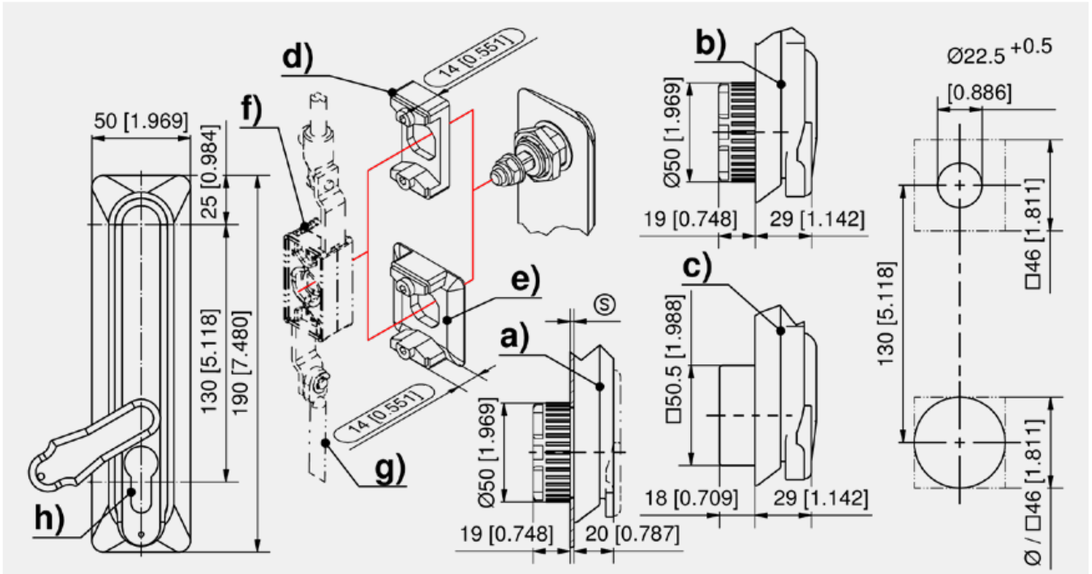
- **Lock support:** zinc die

f)

- **Rod latch:** zinc die as well as steel, zinc plated

Remarks

For doors to be symmetrical for RH and LH operations, two cut-outs □46mm with lock support e) are required.



Swinghandle for profile cylinder

	Part Number	Latching type	Material handle	Material dish	Material cylinder cover	Rainforced dustcover	Sealable	Internal cover	Installation type
a)	207-9023.00-00000	profile-cylinder 40mm	PA, black	PA, black				Ø46	screw-on
a)	207-9024.00-00000	profile-cylinder 40mm	PA, black	PA, black	PA		Yes	Ø46	screw-on
b)	207-9030.00-00000	PHZ 45mm	PA, black	PA, black	PA		Yes	Ø46	screw-on
b)	207-9034.00-00000	PHZ 45mm	zinc die, black	PA, black	PA		Yes	Ø46	screw-on
c)	207-9346.00-00000	PHZ 45mm	zinc die, black	PA, black	PA	Yes	Yes	□46	screw-on

Accessories

h)	300	2-140	**Profile-Cylinder DIN 18252**
f)	354	3-100	**Rod Latch RS/FS PrA**
	285	1-193	**Rod Guide RS**
	284	1-190	**Rod Guides for 8mm Round Rods**
g)	278	1-170	**Round Rod with Eye**
g)	279	1-180	**Round Rods for Adapter**

Specific accessories

d)	207-3501.00-00000	**Lock support Ø46**
e)	207-2706.00-00000	**Lock support □46**



Dual Cylinder Swinghandle RS 105 PA

See page 256

Dual Cylinder Swinghandle RS 130, RC II [2-126.02]

RC2

IP 65

RoHS WEEE



Advantages

- Dual Cylinder Swinghandle with pivotable operating lever.
- Complies with security test to DIN EN 1630 RCII.
- Two profile-cylinders with length of 40 and / or 45mm, allow opening by each cylinder without unlocking the other one.
- The handle can be locked without using a key.
- IP65 according to DIN EN 60529.
- Including steel insert (saw protection).
- To use the same door both RH and LH, 2 holes □46, symmetrical to door center are possible.
- Logo (1.) on handle on request.

Materials

- **Swinghandle and dish:** zinc die, ZL 0430, black
- **Other surfaces on request!**

a), b) and d)

- **3- and 2-point cam and round rods:** steel, zinc plated

e)

- **Adapter:** zinc die, zinc plated

f)

- **Rod guide:** PA, black

g)

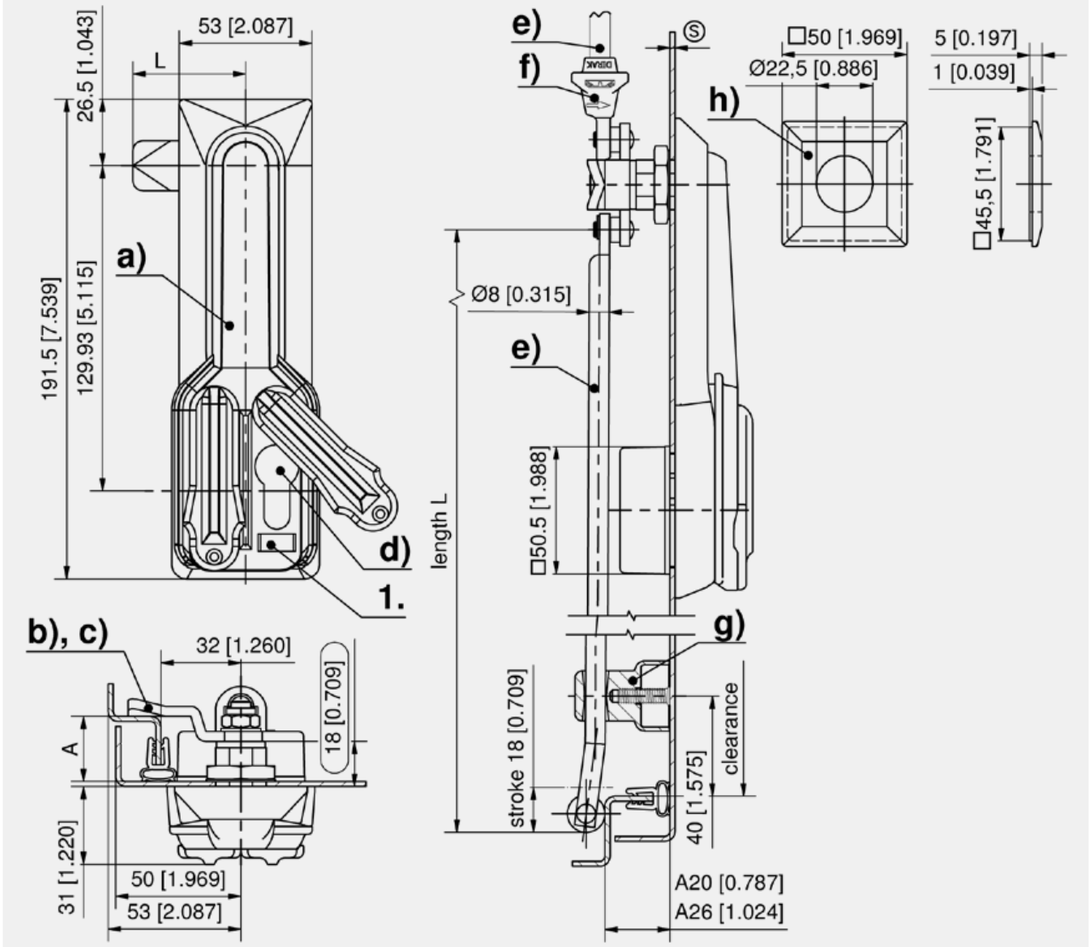
- **Square adapter:** PA, black

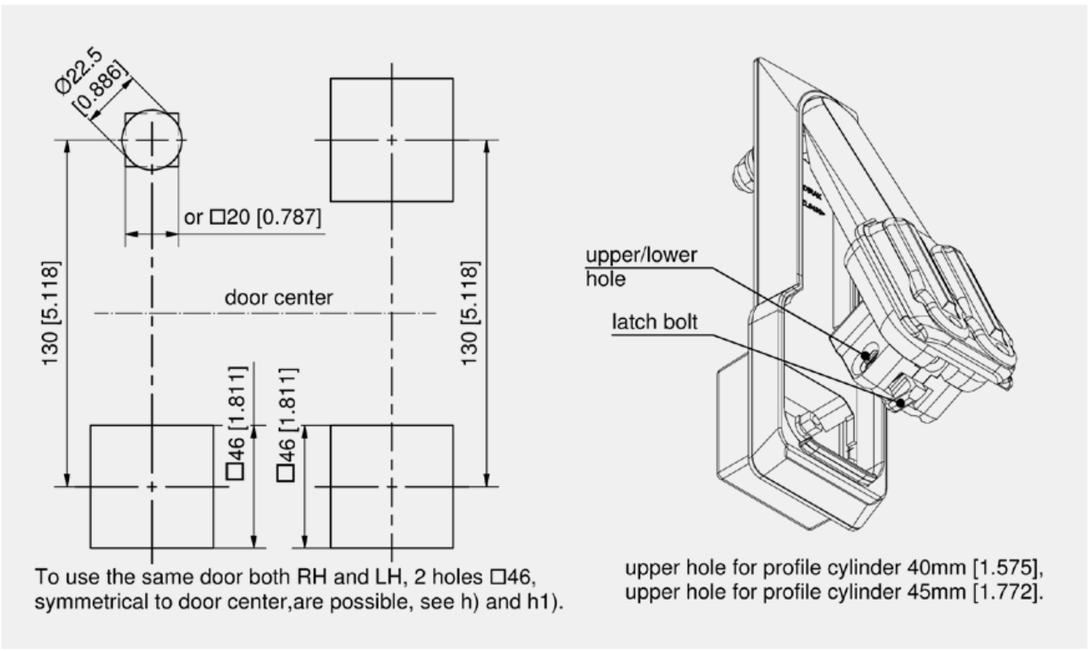
g1)

- **Flat external seal:** sponge rubber, pure

h)

- **Building key:** PS, black





To use the same door both RH and LH, 2 holes □46, symmetrical to door center,are possible, see h) and h1).

upper hole for profile cylinder 40mm [1.575], upper hole for profile cylinder 45mm [1.772].

Dual Cylinder Swinghandle RS 130, RC II

	Part Number	Internal cover	Material cylinder cover	Sealable	Stroke	Installation type
a)	207-9414.00-00000	□46	zinc die	Yes	18 mm	screw-on

Accessories

d)	300	2-140 **Profile-Cylinder DIN 18252**
f)	281	1-181.01 **Adapter zinc die for Round Rods**
f)	280	1-181 **Adapter PA for Round Rods**
e)	278	1-170 **Round Rod with Eye**
e)	279	1-180 **Round Rods for Adapter**
g)	284	200-3623.51-00000 **Rod guide**
g)	284	200-3625.51-00000 **Rod guide**
	759	204-0301.00-00000 **PZ building key**
b)	290	207-9522.00-00000 **3-point cam**
b)	290	207-9528.00-00000 **3-point cam**
c)	290	207-9599.00-00000 **2-point cam**
h)	207-2702.03-00000 **Adapter for cutout □46mm**	

Dual Cylinder Swinghandle RS 130 PA [2-126.04]



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets

Advantages

- Two profile-cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without un locking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

Materials

a) and b)

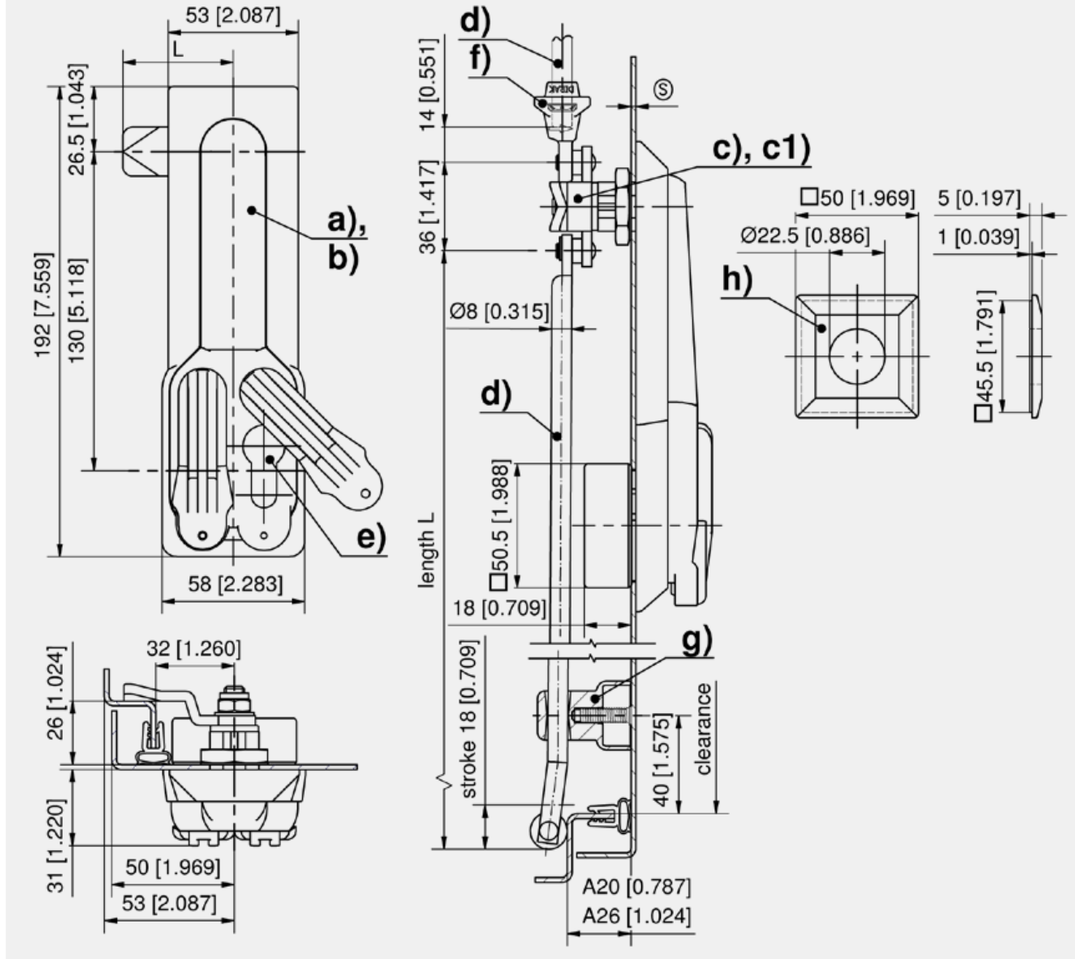
- **Swinghandle and dish:** PA, black

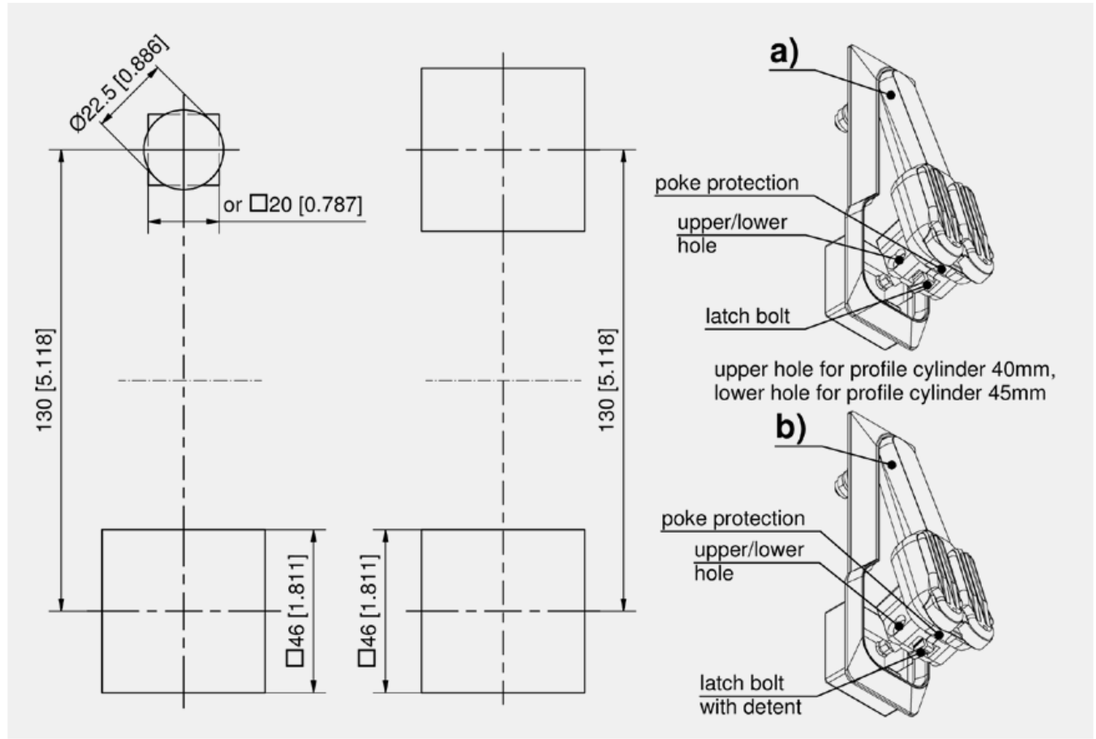
Remarks

(S) = max. 3 mm.

To use the same door both RH and LH, 2 holes □46, symmetrical to door center are possible.

Upgrading with steel insert (saw protection) possible.





Dual cylinder swinghandle

	Part Number	Internal cover	Material cylinder cover	Sealable	Version
a)	207-9417.00-00000	□46	PA, reinforced	Yes	Latch bolt without detent
b)	207-9418.00-00000	□46	PA, reinforced	Yes	Latch bolt with detent

Accessories

e)	300	2-140 **Profile-Cylinder DIN 18252**
f)	281	1-181.01 **Adapter zinc die for Round Rods**
f)	280	1-181 **Adapter PA for Round Rods**
d)	278	1-170 **Round Rod with Eye**
d)	279	1-180 **Round Rods for Adapter**
c)	290	2-150 **3-Point Cam**
g)	284	200-3623.51-00000 **Rod guide**
	759	204-0301.00-00000 **PZ building key**
c1)	290	207-9599.00-00000 **2-point cam**

Function extension

h)	207-2702.03-00000 **Adapter for cutout □46mm**
h1)	207-2803.00-00000 **Gasket for adapter □46mm**

Swinghandle RS 130 for Rod Latch [2-300]



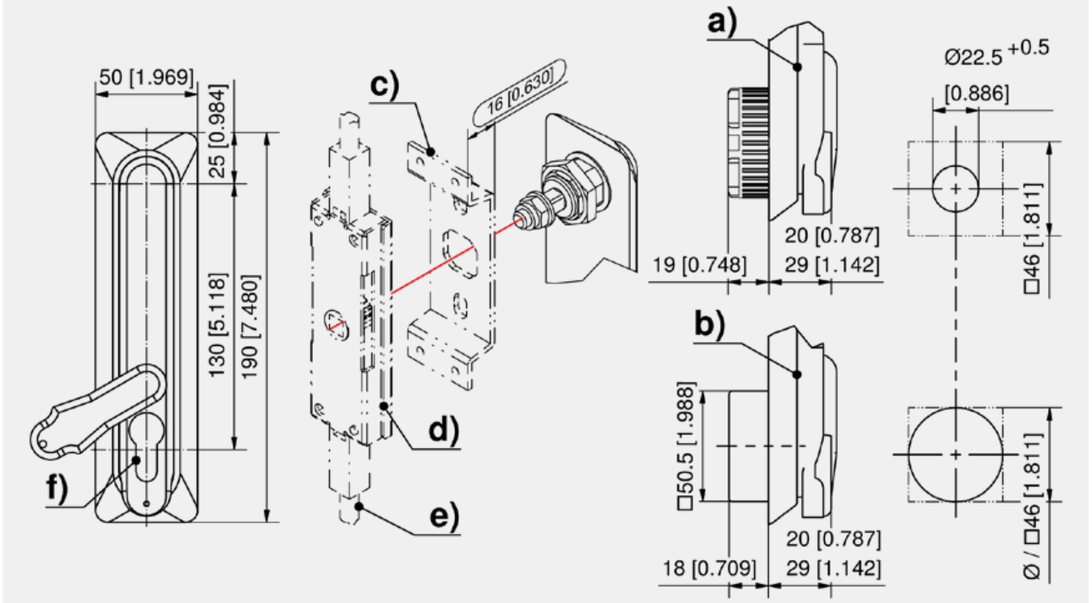
for cutout 130, for round rods, for profile-cylinder

Advantages

- Swinghandle for series 235 (130mm / 5.118), Swinghandles in "short" version (105mm / 4.134) can only be used with rod latches see product system 1-400, stroke 13mm / 0.512!
- Part No. for these "short" versions: On request
- Part No. for grey RAL 7032 versions: On request
- IP65 according to DIN EN 60529.

Materials

- **Swinghandle and cover:** PA, black or zinc die, black
- **Dish, round and square cap:** PA, black
- **Lock support:** steel, zinc plated



Swinghandle PA, black, for profile-cylinder, Ø46

	Part Number	Latching type	Material cylinder cover	Rainforced dustcover	Sealable	Internal cover	Installation type
a)	207-9035.00-00000	profile-cylinder 40mm				Ø46	screw-on
a)	207-9036.00-00000	profile-cylinder 40mm	PA		Yes	Ø46	screw-on
a)	207-9037.00-00000	profile-cylinder 40mm	PA	Yes	Yes	Ø46	screw-on
a)	207-9061.00-00000	profile-cylinder 40mm	zinc die		Yes	Ø46	screw-on
a)	207-9041.00-00000	PHZ 45mm				Ø46	screw-on
a)	207-9042.00-00000	PHZ 45mm	PA		Yes	Ø46	screw-on
a)	207-9043.00-00000	PHZ 45mm	PA	Yes	Yes	Ø46	screw-on
a)	207-9063.00-00000	PHZ 45mm	zinc die		Yes	Ø46	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, Ø46

	Part Number	Latching type	Material cylinder cover	Rainforced dustcover	Sealable	Internal cover	Installation type
a)	207-9038.00-00000	profile-cylinder 40mm				Ø46	screw-on
a)	207-9039.00-00000	profile-cylinder 40mm	PA		Yes	Ø46	screw-on
a)	207-9040.00-00000	profile-cylinder 40mm	PA	Yes	Yes	Ø46	screw-on
a)	207-9062.00-00000	profile-cylinder 40mm	zinc die		Yes	Ø46	screw-on
a)	207-9044.00-00000	PHZ 45mm				Ø46	screw-on
a)	207-9045.00-00000	PHZ 45mm	PA		Yes	Ø46	screw-on
a)	207-9046.00-00000	PHZ 45mm	PA	Yes	Yes	Ø46	screw-on
a)	207-9064.00-00000	PHZ 45mm	zinc die		Yes	Ø46	screw-on

Swinghandle PA, black, for profile-cylinder, □46

	Part Number	Latching type	Material cylinder cover	Rainforced dustcover	Sealable	Internal cover	Installation type
b)	207-9323.00-00000	profile-cylinder 40mm				□46	screw-on
b)	207-9327.00-00000	profile-cylinder 40mm	PA		Yes	□46	screw-on
b)	207-9331.00-00000	profile-cylinder 40mm	PA	Yes	Yes	□46	screw-on
b)	207-9335.00-00000	profile-cylinder 40mm	zinc die		Yes	□46	screw-on
b)	207-9325.00-00000	PHZ 45mm				□46	screw-on
b)	207-9329.00-00000	PHZ 45mm	PA		Yes	□46	screw-on
b)	207-9333.00-00000	PHZ 45mm	PA	Yes	Yes	□46	screw-on
b)	207-9337.00-00000	PHZ 45mm	zinc die		Yes	□46	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, □46

	Part Number	Latching type	Material cylinder cover	Rainforced dustcover	Sealable	Internal cover	Installation type
b)	207-9324.00-00000	profile-cylinder 40mm				□46	screw-on
b)	207-9328.00-00000	profile-cylinder 40mm	PA		Yes	□46	screw-on
b)	207-9332.00-00000	profile-cylinder 40mm	PA	Yes	Yes	□46	screw-on
b)	207-9336.00-00000	profile-cylinder 40mm	zinc die		Yes	□46	screw-on
b)	207-9326.00-00000	PHZ 45mm				□46	screw-on
b)	207-9330.00-00000	PHZ 45mm	PA		Yes	□46	screw-on
b)	207-9334.00-00000	PHZ 45mm	PA	Yes	Yes	□46	screw-on
b)	207-9338.00-00000	PHZ 45mm	zinc die		Yes	□46	screw-on

	Accessories
f)	300 2-140 **Profile-Cylinder DIN 18252**
d)	206 1-410 **Rod Latch**
	285 1-193 **Rod Guide RS**
	284 1-190 **Rod Guides for 8mm Round Rods**
e)	278 1-170 **Round Rod with Eye**
c)	235-1002.00-00000 **Lock support A26**

Swinghandle RS 130 for Rod Latch RS [2-340]



for cutout 130, for round rods with thread, for profile-cylinder

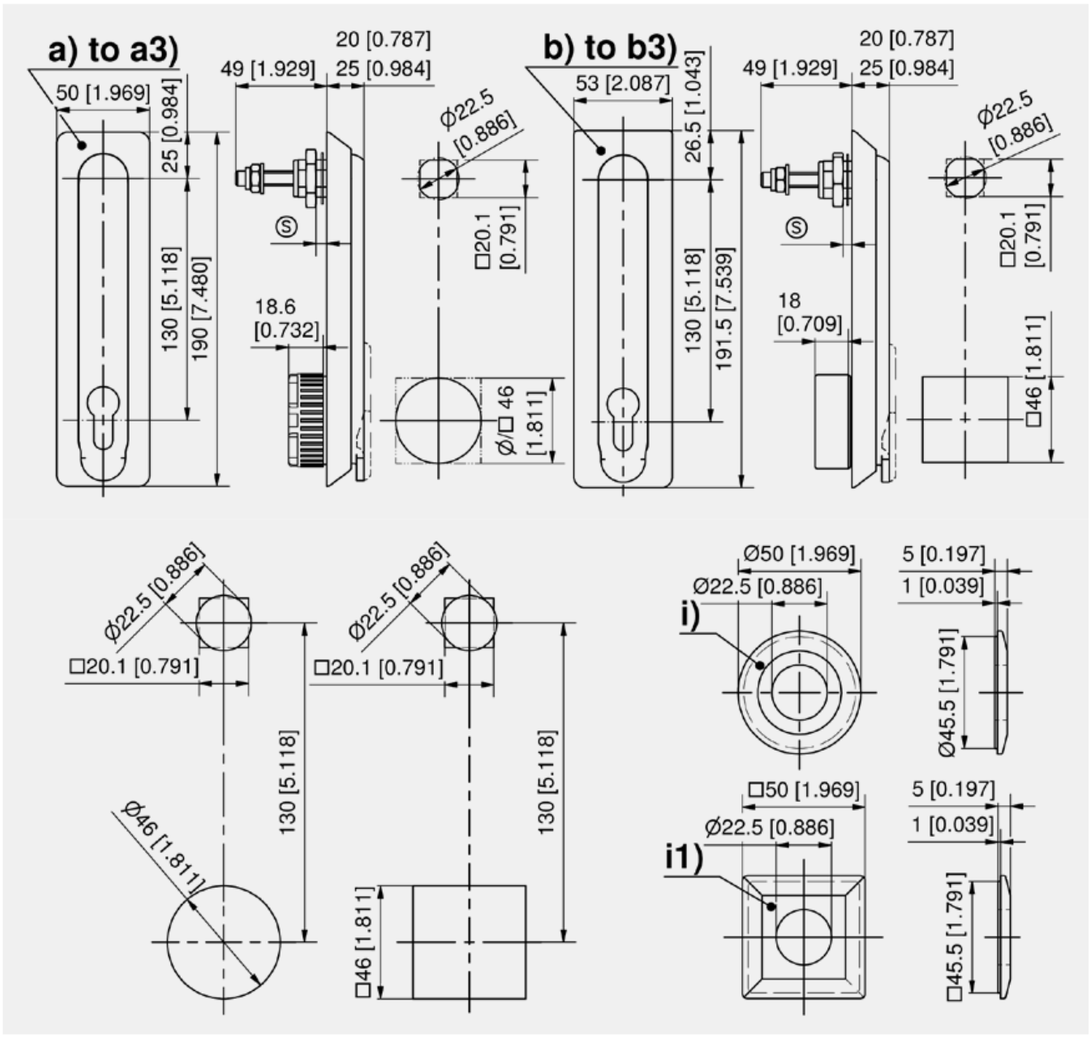
Advantages

- Swinghandle can only be used with rod latches see product system 2-340.01
- Dual cylinder RS130 see product system 2-126.02 (zinc die) and 2-126.04 (PA) on request.
- RH / LH application.
- PA version fully insulated.
- IP65 according to DIN EN 60529.

Materials

a) to a3)

- **Swinghandle:** PA, black or zinc die, black
- **Dish:** PA, black



Swinghandle PA, black, for profile-cylinder, Ø46

	Part Number	Internal cover	Surface handle	Material cylinder cover	Sealable	Installation type
a)	207-9056.00-00000	Ø46	black			screw-on
a1)	207-9057.00-00000	Ø46	black	PA	Yes	screw-on
a2)	207-9058.00-00000	Ø46	black	PA	Yes	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, Ø46

	Part Number	Internal cover	Surface handle	Material cylinder cover	Sealable	Installation type
a3)	207-9059.00-00000	Ø46	black	zinc die	Yes	screw-on

Swinghandle PA, black, for profile-cylinder, □46

	Part Number	Internal cover	Surface handle	Material cylinder cover	Sealable	Installation type
b)	207-9319.00-00000	□46	black			screw-on
b1)	207-9320.00-00000	□46	black	PA	Yes	screw-on
b2)	207-9321.00-00000	□46	black	PA	Yes	screw-on

Swinghandle, handle zinc die, dish PA black, for profile-cylinder, □46

	Part Number	Internal cover	Surface handle	Material cylinder cover	Sealable	Installation type
b3)	207-9322.00-00000	□46	black	zinc die	Yes	screw-on

Accessories
300 2-140 **Profile-Cylinder DIN 18252**
303 2-340.01 **Rod Latch RS**
207-2701.03-00000 **Adapter for cutout Ø46mm**
207-2702.03-00000 **Adapter for cutout □46mm**

Swinghandle for Rod Latch 2-400.01



Advantages

- Swinghandles and dual cylinder swinghandles for rod latches with internal release.
- Door-thicknesses from 20 to 106mm.
- With 90° closing rotation.
- IP65 according to DIN EN 60529.
- Rod latch see 2-400.01.

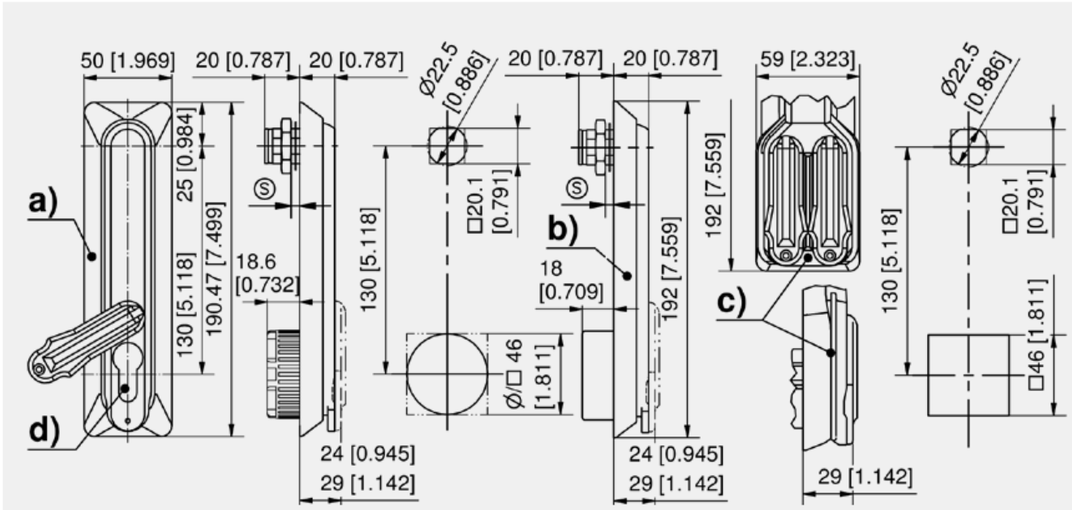
Materials

a) and b)

- **Swinghandle:** PA, black or zinc die, black
- **Dish:** PA, black

c)

- **Swinghandle and dish:** zinc die, black



Swinghandle for rod latch

	Part Number	Cylinder cover	Cutout	Material handle	Material dish	Installation type
a)	207-9052.00-00000		130/Ø46	PA	PA	screw-on
a)	207-9053.00-00000	Yes	130/Ø46	PA	PA	screw-on
a)	207-9054.00-00000	Yes	130/Ø46	PA	PA	screw-on
a)	207-9055.00-00000	Yes	130/Ø46	zinc die	PA	screw-on
b)	207-9315.00-00000		130/□46	PA	PA	screw-on
b)	207-9316.00-00000	Yes	130/□46	PA	PA	screw-on
b)	207-9317.00-00000	Yes	130/□46	PA	PA	screw-on
b)	207-9318.00-00000	Yes	130/□46	zinc die	PA	screw-on

Dual cylinder swinghandle for rod latch

	Part Number	Cylinder cover	Cutout	Material handle	Material dish	Installation type
c)	207-9416.00-00000	Yes	130/□46	zinc die	zinc die	screw-on

Specific accessories

304 2-400.01 **Rod Latch for Internal Release**

Accessories

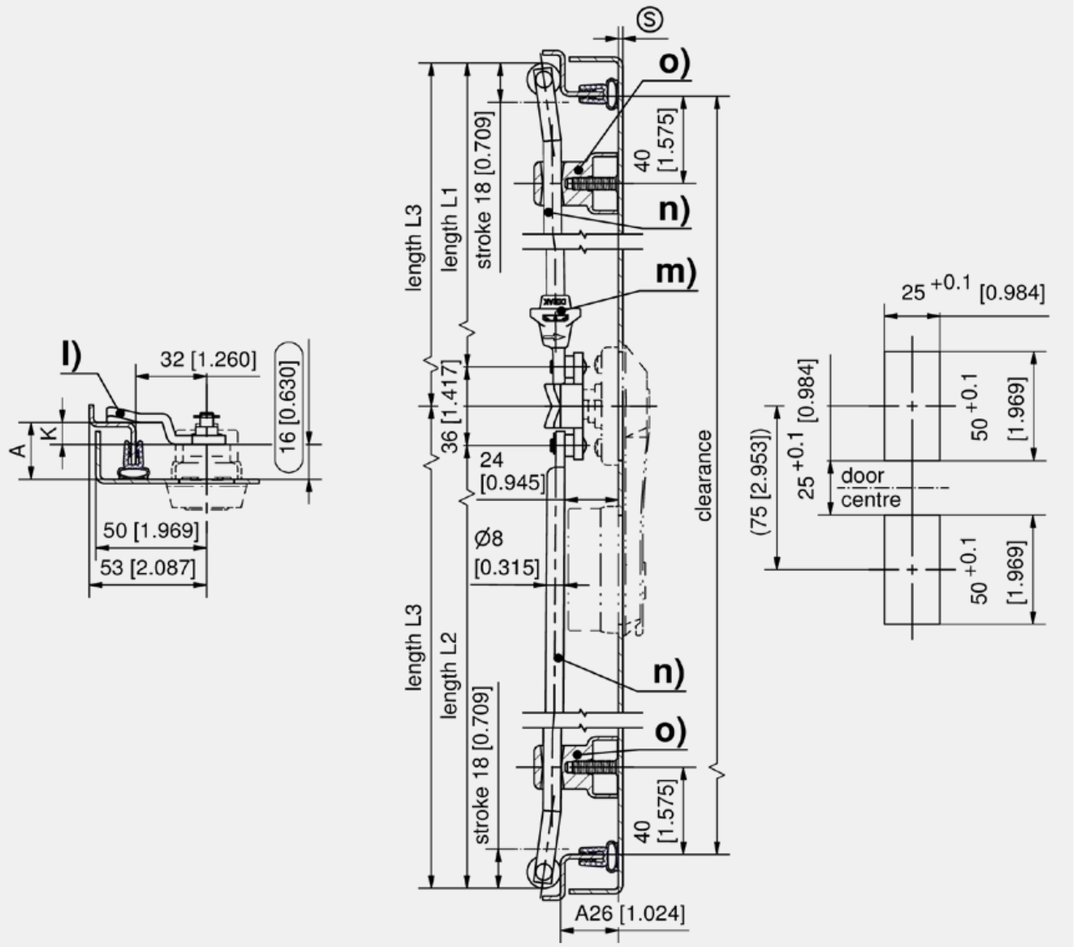
300 2-140 **Profile-Cylinder DIN 18252**



Swinghandle RS PrC for Profile-Cylinder

See page 230

Cutout B with accessories and formula



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L1 = \frac{\text{clearance-12mm[0.472]}}{\text{2 [0.079]}} \text{ - 38 mm [1.496]} \qquad L2 = \frac{\text{clearance-12mm[0.472]}}{\text{2 [0.079]}} \text{ +38 mm [1.496]}$$

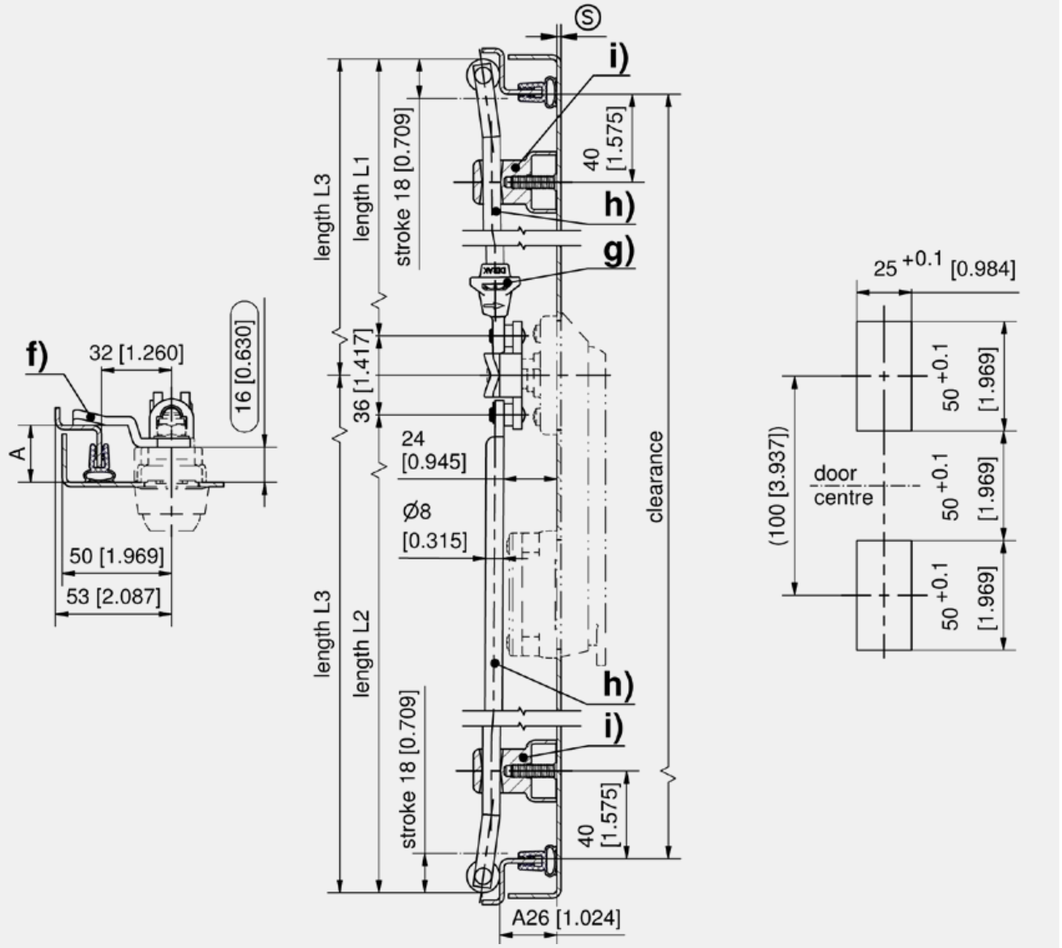
cutout outside the door center (rod length equal)

$$L3 = \frac{\text{clearance-12mm[0.472]}}{\text{2[0.079]}}$$

Accessories
i) 1-102 **Cams L35/45 steel**
i) 1-105 **Roller Cam height adjustable**
i) 2-150 **3-Point Cam**
i) 2-151 **2-, 3- and 4-Point Cam Adapter**
i) 2-151.04 **3-Point Cam Adapter**
m) 1-181 **Adapter PA for Round Rods**
m) 1-181.01 **Adapter for Round Rods**

Accessories
n) 1-170 **Round Rod with Eye**
n) 1-180 **Round Rods for Adapter**
o) 1-190 **Rod Guides for 8mm Round Rods**
o) 1-191 **Height-adjustable Rod Guide with Knurled Nut**
o) 1-192 **Rod Guides**
o) 1-193 **Rod Guide RS**

Cutout C with accessories and formula



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L1 = \frac{\text{clearance-12mm[0.472]}}{\text{2 [0.079]}} \text{ - 50 mm [1.969]} \qquad L2 = \frac{\text{clearance-12mm[0.472]}}{\text{2 [0.079]}} \text{ +50 mm [1.969]}$$

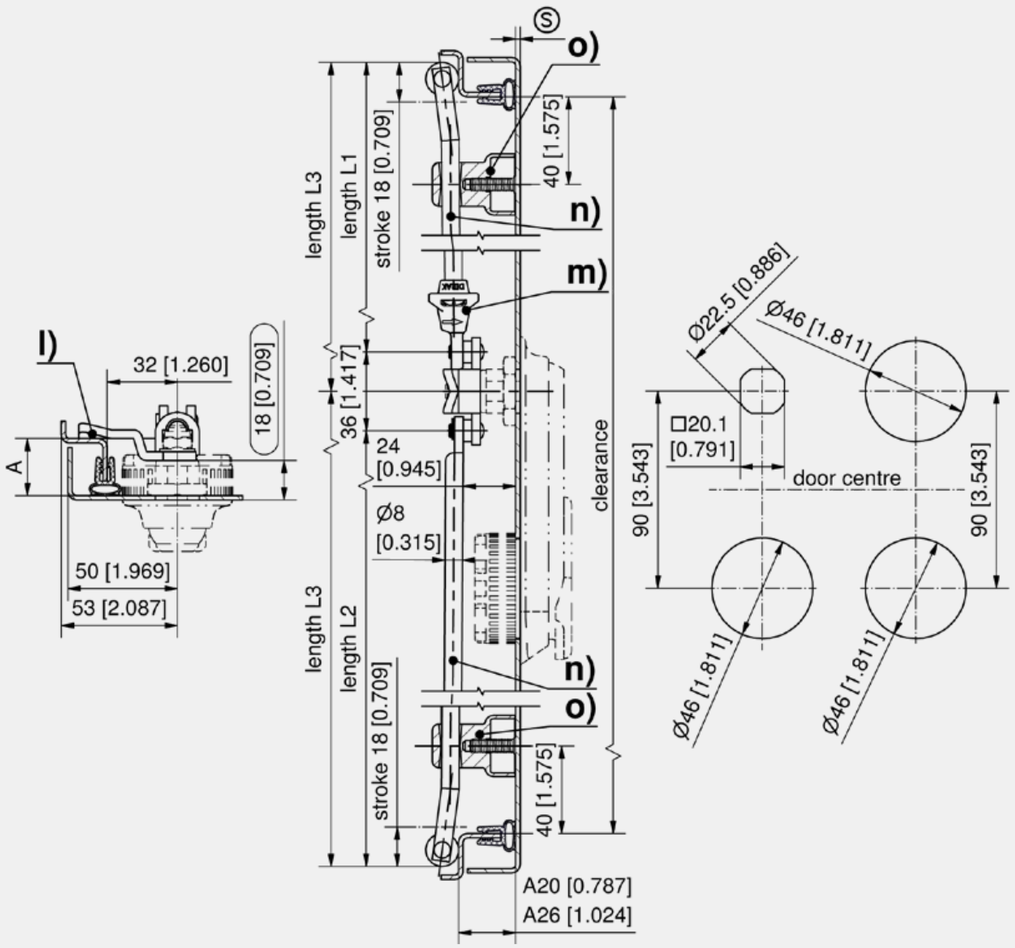
cutout outside the door center (rod length equal)

$$L3 = \frac{\text{clearance-12mm[0.472]}}{\text{2[0.079]}}$$

Accessories
f) 1-102 **Cams L35/45 steel**
f) 1-105 **Roller Cam height adjustable**
f) 2-150 **3-Point Cam**
f) 2-151 **2-, 3- and 4-Point Cam Adapter**
f) 2-151.04 **3-Point Cam Adapter**
g) 1-181 **Adapter PA for Round Rods**
g) 1-181.01 **Adapter for Round Rods**

Accessories
h) 1-170 **Round Rod with Eye**
h) 1-180 **Round Rods for Adapter**
i) 1-190 **Rod Guides for 8mm Round Rods**
i) 1-191 **Height-adjustable Rod Guide with Knurled Nut**
i) 1-192 **Rod Guides**
i) 1-193 **Rod Guide RS**

Cutout 90 with accessories and formula



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L1 = \frac{\text{upper rod clearance-12mm[0.472]}}{2\ [0.079]} - 45\ \text{mm}\ [1.772] \qquad L2 = \frac{\text{lower rod clearance-12mm[0.472]}}{2\ [0.079]} + 45\ \text{mm}\ [1.772]$$

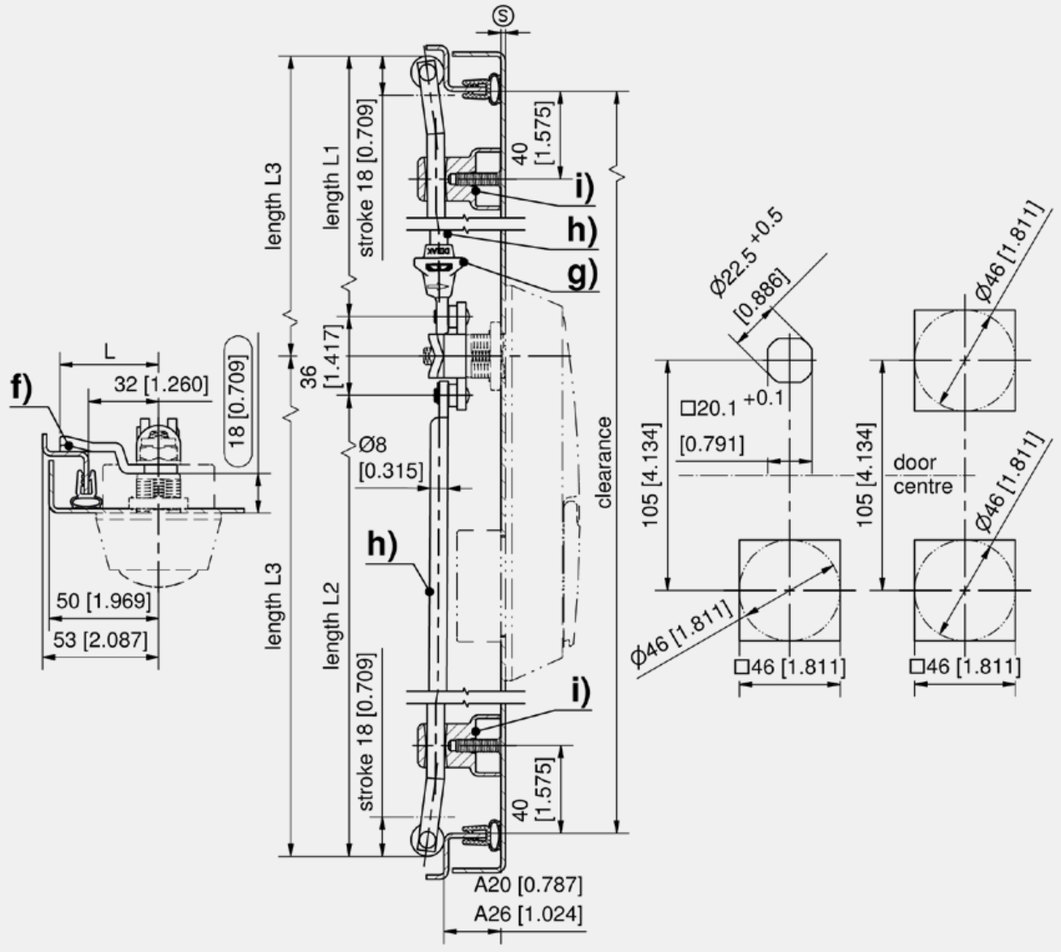
cutout outside the door center (rod length equal)

$$L3 = \frac{\text{clearance-12mm[0.472]}}{2[0.079]}$$

	Accessories
l)	1-102 **Cams L35/45 steel**
l)	1-105 **Roller Cam height adjustable**
l)	2-150 **3-Point Cam**
l)	2-151 **2-, 3- and 4-Point Cam Adapter**
l)	2-151.04 **3-Point Cam Adapter**
m)	1-181 **Adapter PA for Round Rods**
m)	1-181.01 **Adapter for Round Rods**

	Accessories
n)	1-170 **Round Rod with Eye**
n)	1-180 **Round Rods for Adapter**
o)	1-190 **Rod Guides for 8mm Round Rods**
o)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
o)	1-192 **Rod Guides**
o)	1-193 **Rod Guide RS**

Cutout 105 with accessories and formula



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L1 = \frac{\text{upper rod clearance-12mm[0.472]}}{2\ [0.079]} - 53\ \text{mm}\ [2.087] \qquad L2 = \frac{\text{lower rod clearance-12mm[0.472]}}{2\ [0.079]} + 53\ \text{mm}\ [2.087]$$

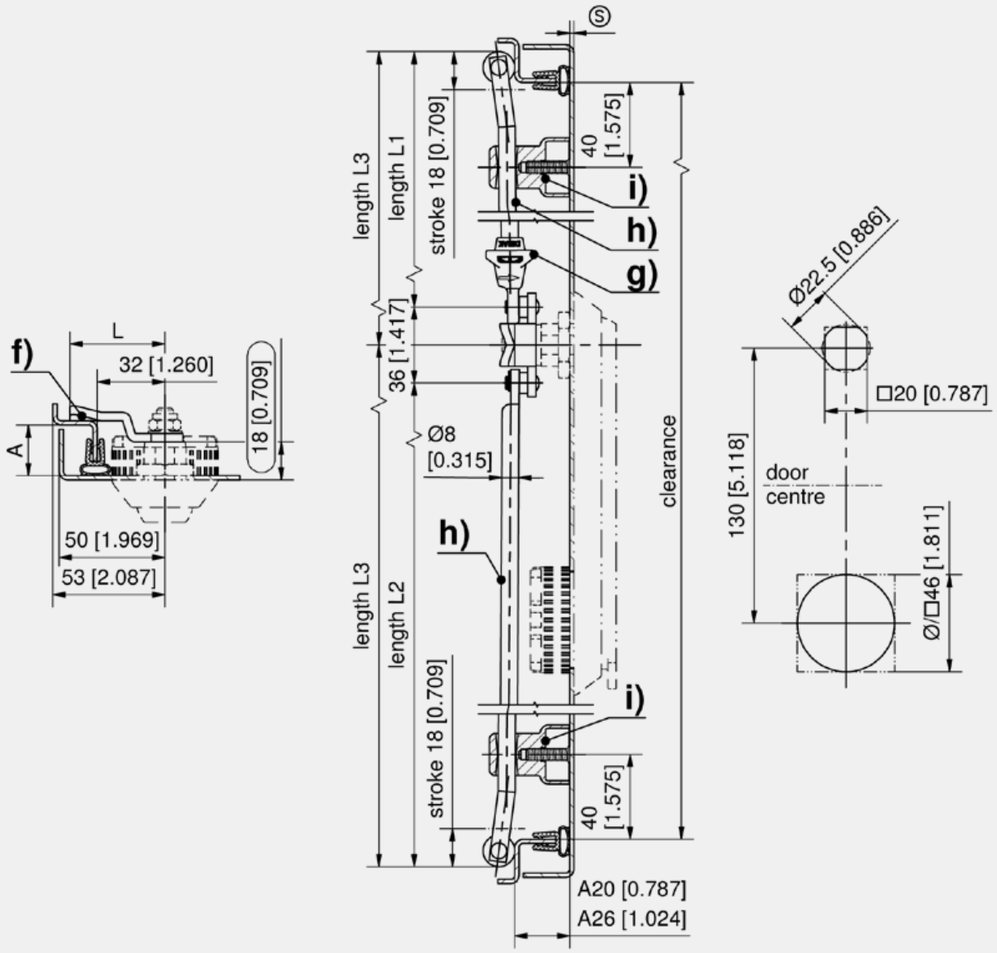
cutout outside the door center (rod length equal)

$$L3 = \frac{\text{clearance-12mm[0.472]}}{2[0.079]}$$

	Accessories
f)	1-102 **Cams L35/45 steel**
f)	1-105 **Roller Cam height adjustable**
f)	2-150 **3-Point Cam**
f)	2-151 **2-, 3- and 4-Point Cam Adapter**
f)	2-151.04 **3-Point Cam Adapter**
g)	1-181 **Adapter PA for Round Rods**
g)	1-181.01 **Adapter for Round Rods**

	Accessories
h)	1-170 **Round Rod with Eye**
h)	1-180 **Round Rods for Adapter**
i)	1-190 **Rod Guides for 8mm Round Rods**
i)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
i)	1-192 **Rod Guides**
i)	1-193 **Rod Guide RS**

Cutout 130 with accessories and formula



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L1 = \frac{\text{upper rod}}{\frac{\text{clearance-12mm[0.472]}}{2\ [0.079]}} - 65\ \text{mm}\ [2.559] \qquad L2 = \frac{\text{lower rod}}{\frac{\text{clearance-12mm[0.472]}}{2\ [0.079]}} + 65\ \text{mm}\ [2.559]$$

cutout outside the door center (rod length equal)

$$L3 = \frac{\text{clearance-12mm[0.472]}}{2[0.079]}$$

	Accessories
f)	1-102 **Cams L35/45 steel**
f)	1-105 **Roller Cam height adjustable**
f)	2-150 **3-Point Cam**
f)	2-151 **2-, 3- and 4-Point Cam Adapter**
f)	2-151.04 **3-Point Cam Adapter**
g)	1-181 **Adapter PA for Round Rods**
g)	1-181.01 **Adapter for Round Rods**

	Accessories
h)	1-170 **Round Rod with Eye**
h)	1-180 **Round Rods for Adapter**
i)	1-190 **Rod Guides for 8mm Round Rods**
i)	1-191 **Height-adjustable Rod Guide with Knurled Nut**
i)	1-192 **Rod Guides**
i)	1-193 **Rod Guide RS**

Swinghandles
Accessories



Height-adjustable Rod Guide with Knurled Nut

See page 283

Round Rod with Eye

[1-170]

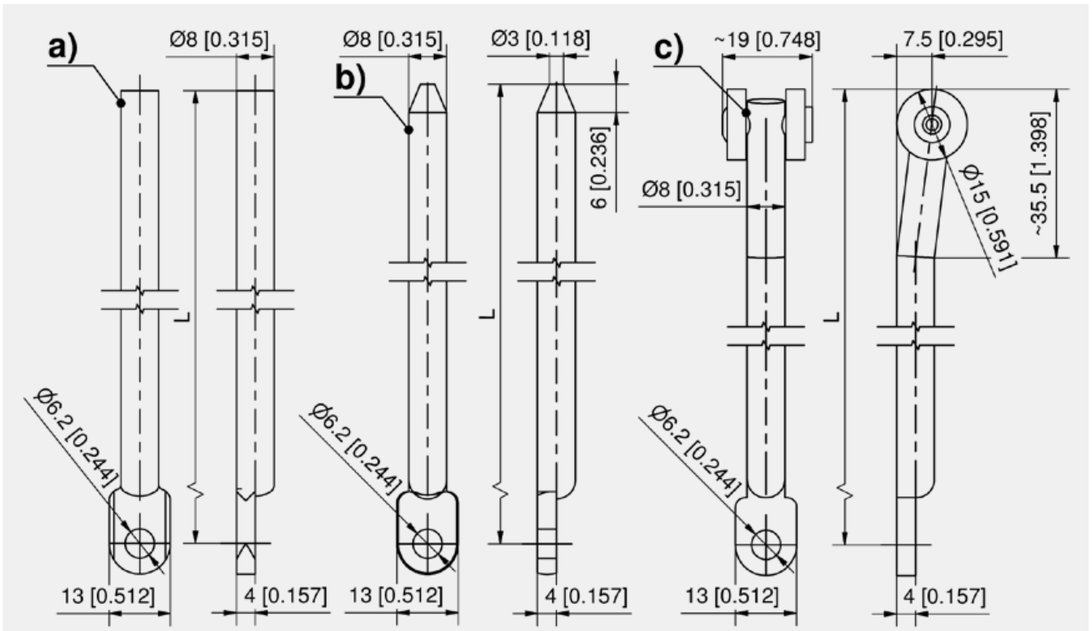


Advantages

- Round rods in standard length and variable lengths with pressed eye.
- With a flat end.
- With chamfered end.
- With rollers, dimension L up to top of roller.
- Round rods in standard length: from stock.
- Round rods in variable lengths: minimum order quantity 200 pieces.

Materials

- **Round rods:** steel, zinc plated



Round Rods

	Part Number	Version	Length	Rod diameter Ø
a)	201-0102.00-00000	with eye	400 mm	8 mm
a)	201-0103.00-00000	with eye	500 mm	8 mm
a)	201-0104.00-00000	with eye	600 mm	8 mm
a)	201-0105.00-00000	with eye	700 mm	8 mm
a)	201-0106.00-00000	with eye	800 mm	8 mm
a)	201-0107.00-00000	with eye	900 mm	8 mm
a)	201-0108.00-00000	with eye	1000 mm	8 mm
a)	201-0109.00-00000	with eye	1100 mm	8 mm
a)	201-0110.00-00000	with eye	1200 mm	8 mm
a)	201-0112.00-Lxxmm	with eye	variable	8 mm
b)	201-0111.00-Lxxmm	with eye and chamfered end	variable	8 mm
c)	201-9006.00-Lxxmm	with eye and rollers	variable	8 mm

Round Rods for Adapter

[1-180]

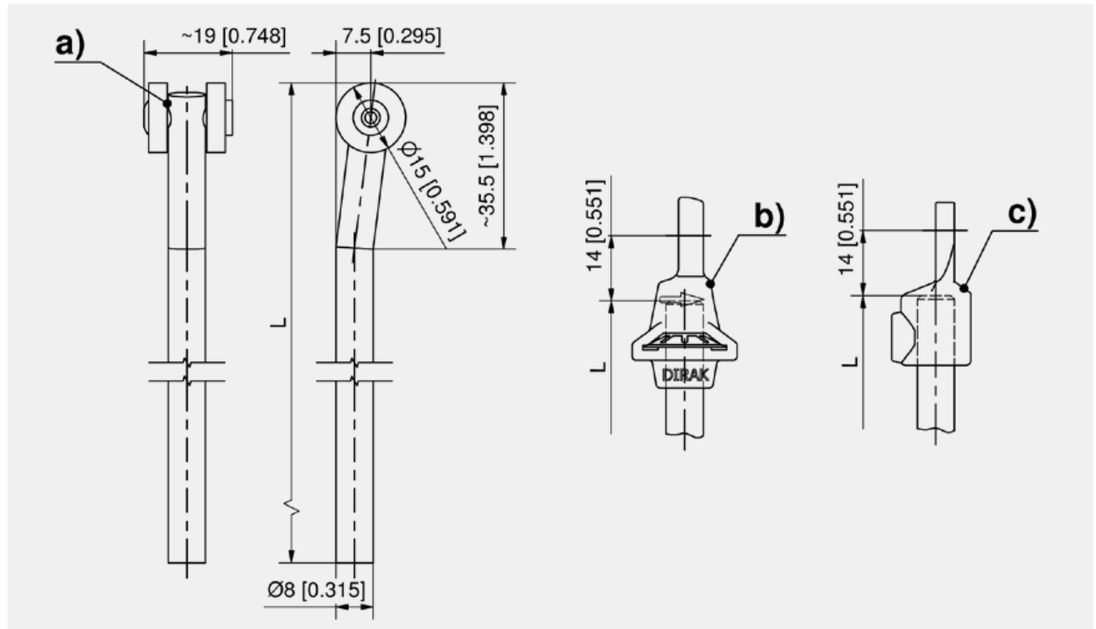


Advantages

- Round rods in standard length and variable lengths for adapter.
- With rollers, dimension L up to top of roller.
- Round rods in standard length: from stock.
- Round rods in variable lengths: minimum order quantity 200 pieces.

Materials

- **Round rods:** steel, zinc plated
- **Rollers:** PA, black
- **Rivet:** steel, zinc plated



Round Rods for adapter

	Part Number	Version	Length	Rod diameter Ø
a)	201-9001.00-00000	with rollers	400 mm	8 mm
a)	201-9020.00-00500	with rollers	500 mm	8 mm
a)	201-9002.00-00000	with rollers	600 mm	8 mm
a)	201-9020.00-00700	with rollers	700 mm	8 mm
a)	201-9003.00-00000	with rollers	800 mm	8 mm
a)	201-9020.00-00900	with rollers	900 mm	8 mm
a)	201-9004.00-00000	with rollers	1000 mm	8 mm
a)	201-9020.00-01100	with rollers	1100 mm	8 mm
a)	201-9005.00-00000	with rollers	1200 mm	8 mm
a)	201-9020.00-Lxxmm	with rollers	variable	8 mm

Accessories
c) 1-181.01 **Adapter for Round Rods**
b) 1-181 **Adapter PA for Round Rods**

Adapter PA for Round Rods

[1-181]



Advantages

- Quick, tool-less installation, of the adapter on round rods (Ø8mm/0.315) through integrated one-way clamping ring.
- With clip-in installation for 3-point cam, rattle-free fastening.
- The clamping fingers spring into the stud groove.
- The adapter is non-detachable.
- This adapter should be used only with quarter-turns or swinghandles that turn a maximum of 90 degrees.

Materials

- **Apter:** PA, black
- **Clamping ring:** spring steel

Remarks

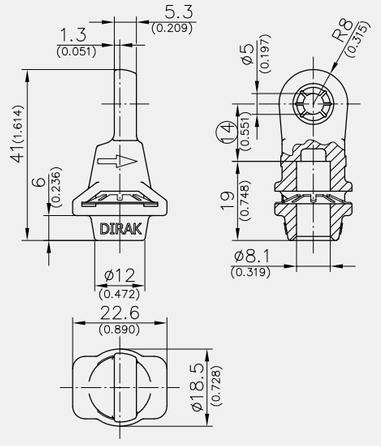
Advantages:

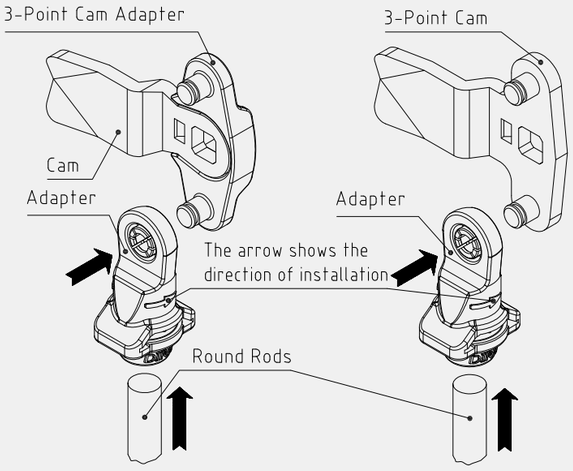
1. Standard length round rods, without eyelets, can be applied.

2. Rods are cut to length (mind the 14mm/0.551).

3. Easy, cost-saving installation without the use of c-clips.

4. No complex or time-consuming installation.





Adapter for Round Rods

Part Number	Fastening type	Quick-fit	Rod diameter Ø
200-9621.00-00000	tool-less	Yes	8 mm

Adapter zinc die for Round Rods

[1-181.01]



Advantages

- Adapter for 2-point and 3-point cams.
- For assembly of round rods (Ø8mm and Ø10mm).
- The round rod is tightened in the adapter.
- The adapter is fixed with a c-clip to the 2-point or 3-point cam.

Materials

- **Adapter:** zinc die
- **Setscrew:** stainless steel

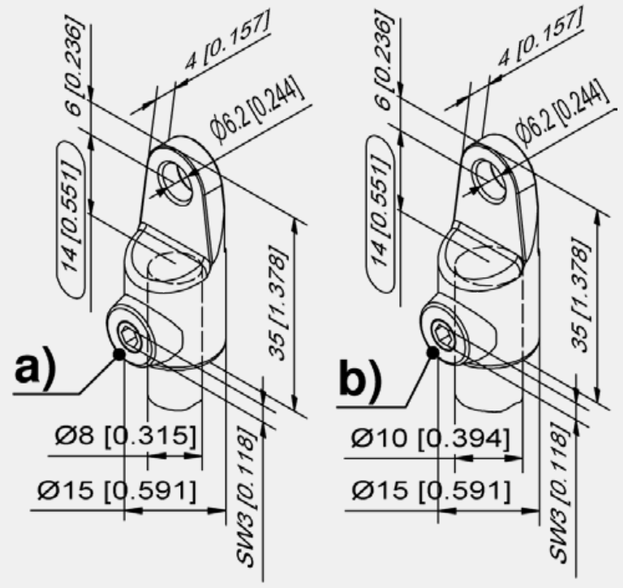
Remarks

Advantages:

1. Standard length round rods can be ordered without the eye.

2. Round rods can be shortened on request.

(Caution: Please note the 14mm(0.551) difference in length).



Adapter for Round Rods

	Part Number	Rod diameter Ø	Material	Fastening type
a)	200-9601.00-00000	8 mm	zinc die	screw-on
b)	200-9604.00-00000	10 mm	zinc die	screw-on

Round Rods Stainless Steel

[7-106]

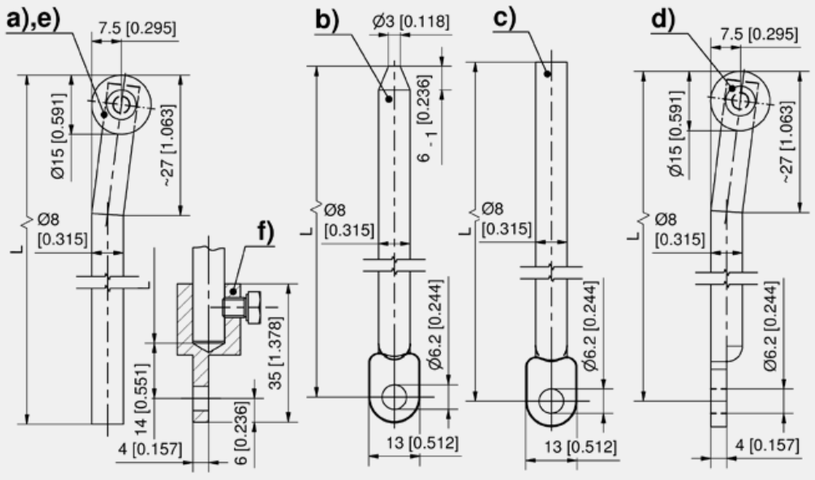


Advantages

- Round rods with standard or customised lengths, different versions.
- Minimum order quantity: 200 pieces.
- Calculation of Rod, see www.dirak.com.
- **Attention:**
- Dimension L measured to top of roller!
- Order example for round rods with eye and rollers, length L=840mm: 201-9026.00-00840

Materials

- **Round rods and rivet:** stainless steel AISI 304
- **Rollers:** PA, black
- **Adapter:** stainless steel AISI 303



Round Rods

	Part Number	Name	Version	Rod diameter Ø
a)	201-9010.00-00000	Round rod 600mm	with rollers	8 mm
a)	201-9011.00-00000	Round rod 700mm	with rollers	8 mm
a)	201-9012.00-00000	Round rod 800mm	with rollers	8 mm
a)	201-9013.00-00000	Round rod 900mm	with rollers	8 mm
a)	201-9014.00-00000	Round rod 1000mm	with rollers	8 mm
a)	201-9015.00-00000	Round rod 1100mm	with rollers	8 mm
a)	201-9016.00-00000	Round rod 1200mm	with rollers	8 mm

Round rods, variable length

	Part Number	Version	Rod diameter Ø
b)	201-0111.04-Lxxmm	with eye and chamfered end	8 mm
c)	201-0112.04-Lxxmm	with eye	8 mm
e)	201-9037.00-Lxxmm	with rollers	8 mm
d)	201-9026.00-Lxxmm	with eye and rollers	8 mm

Adapter for Round Rods

	Part Number	Rod diameter Ø	Material	Fastening type
f)	200-9603.00-00000	8 mm	stainless steel	screw-on

Height-adjustable Rod Guide with Knurled Nut

[1-191]



Advantages

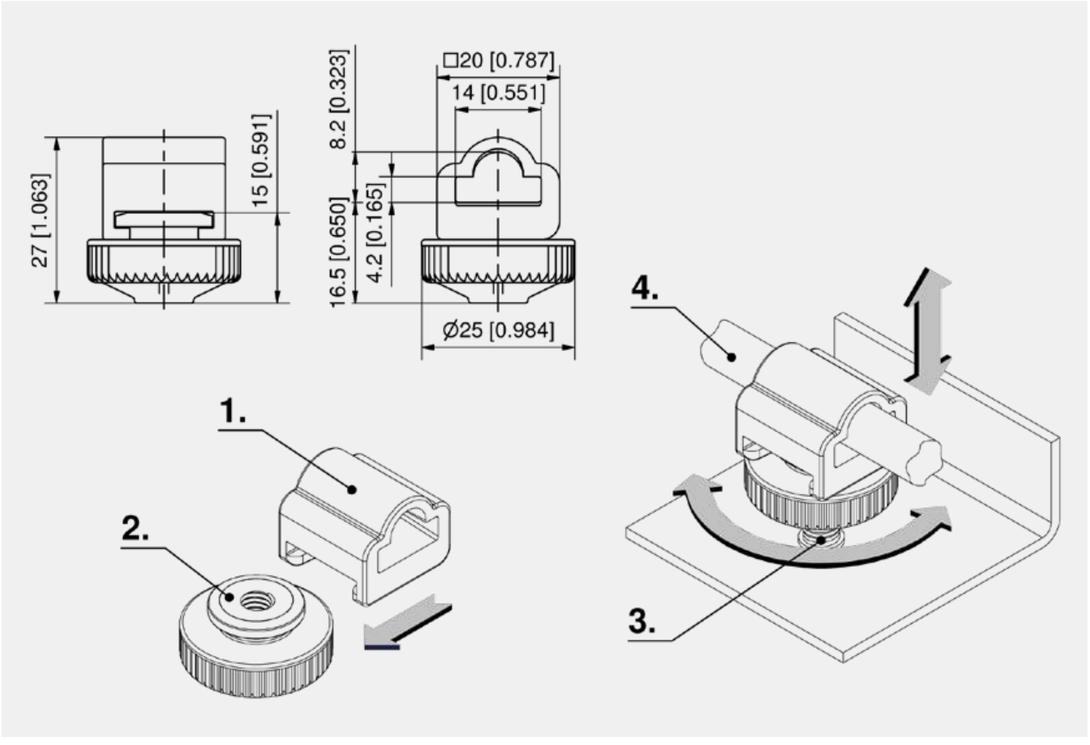
- Rod guide is pushed onto the knurled nut and can be installed therefore pre-assembled.
- Tool-less adjustment with knurled nut.
- Readjustment possible at any time.
- Dismantling of the rod for height adjustment not necessary.
- Usable for studs M6 from 14 to 21mm.
- Adjustment range up to max. 8mm.
- RH / LH application.

Materials

- **Rod guide and knurled nut:** PA, black

Remarks

1. = Rod guide
2. = Knurled nut
3. = Stud
4. = Round rod



Rod guide

Part Number	Height adjustable	Adjustment range	Packaging unit
200-9633.00-00000	Yes	max. 8 mm	10 pcs.

Rod Guides for 8mm Round Rods

[1-190]

RoHS WEEE



Advantages

- With molded thread.
- Screwed onto a weld stud or weld-on screw.
- The round shape of the hole allows free swivelling even with very short rods.

Materials

- **Rod guide:** PA, black

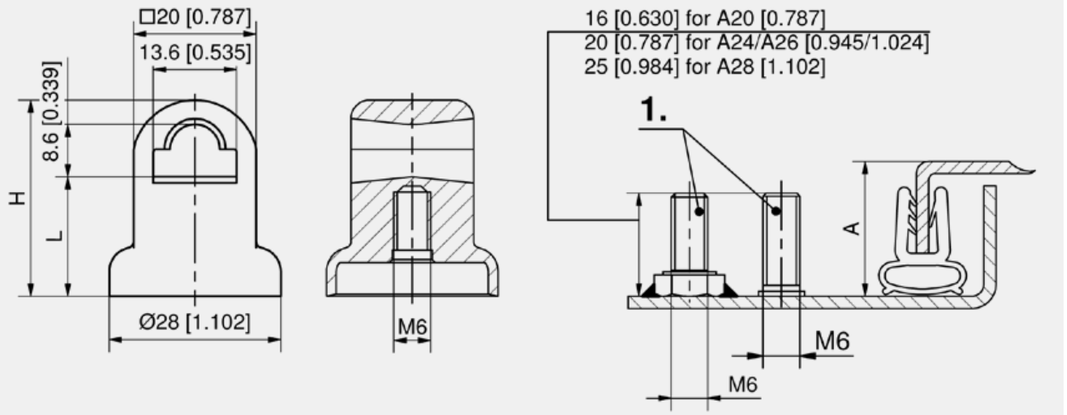
Remarks

1. = Length of the weld studs or screws M6:

16mm for A20,

20mm for A24/A26,

25mm for A28



Rod guide

Part Number	Version	Height H	Length L	A = bending	Fastening type
200-3623.51-00000	Round rod	32 mm	20 mm	A20	screwed on
200-3624.51-00000	Round rod	36 mm	24 mm	A24	screwed on
200-3625.51-00000	Round rod	38 mm	26 mm	A26	screwed on
200-3626.51-00000	Round rod	40 mm	28 mm	A28	screwed on

Rod Guide RS

[1-193]

RoHS WEEE



Advantages

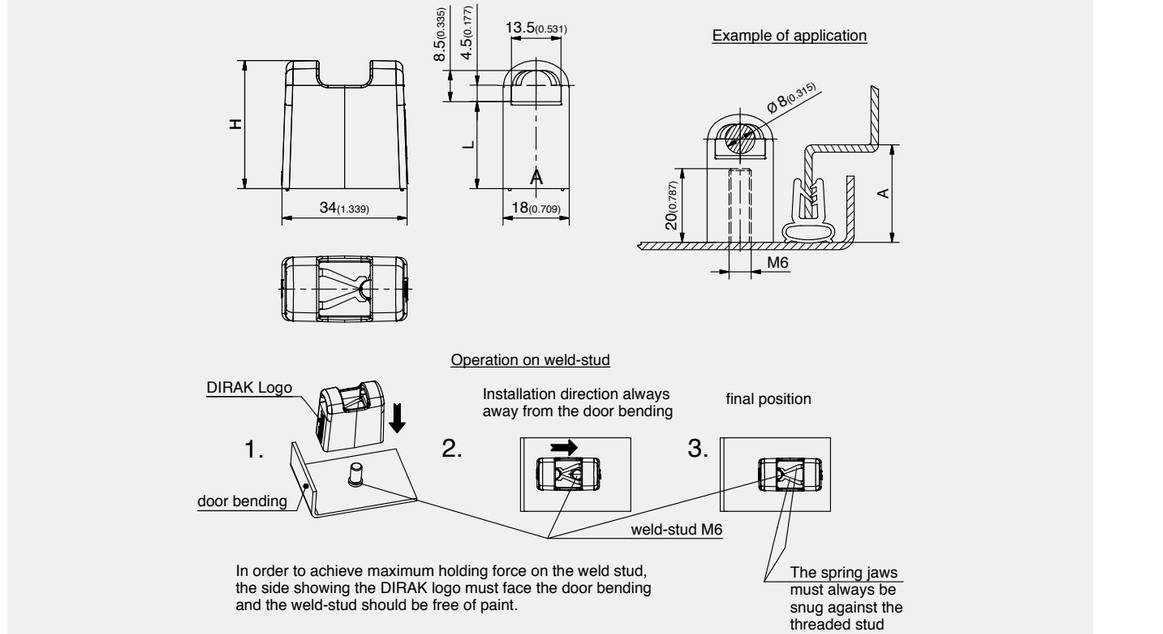
- Rod Guide for 8mm (0.315) round rods for installation without tools on weld-stud M6x20mm.
- The rod guide has to be placed over the weld stud and then pushed onto the thread until a "click" is audible. It is locked now in the final position.
- The rod guide must be installed as shown in the figure.
- Visual inspection possible from above through openings.
- The rod guide can be removed from the threaded stud by inserting a flat head screwdriver, pushing the jaws apart and sliding the rod guide out.

Materials

- **Rod guide:** PA6, black

Remarks

Completely pre-assembled rod latches (including 3-point cam, round rod, rollers and rod guide) can also be mounted with this rod guide, as the rod guide is simply pushed over the weld stud.



Rod guide

	Part Number	A = bending	Height H	Length L	Version	Fastening type	Material
a)	200-3616.54-00000	A24	35 mm	23.5 mm	Round rod	quick assembling	PA
b)	200-3617.54-00000	A26	37 mm	25.5 mm	Round rod	quick assembling	PA
c)	200-3618.54-00000	A28	39 mm	27.5 mm	Round rod	quick assembling	PA

Rod Guides

[1-192]

RoHS WEEE



Advantages

- Rod guides for 8mm round rods.
- Version a) adjustable in height to compensate production tolerances or if sealing has set
- The rod guide can be adjusted in height by a slotted insert (max.12 x 2 mm).
- With this rod guide even completely pre-assembled rod-latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6, by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- Stainless steel version see product system 7-912.

Materials

- **Rod guide:** PA, black
- **Adjusting Sleeve:** steel, zinc plated
- **Snap ring:** stainless steel

Remarks

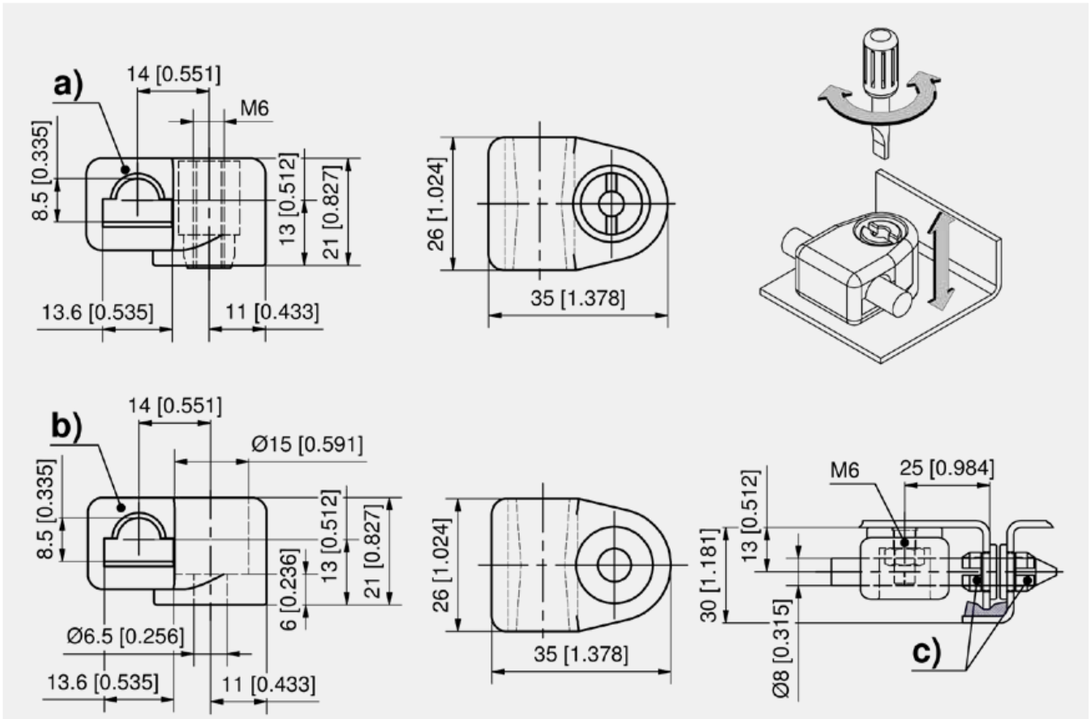
Adjustment depending on the lenght of the weld stud:

M6 x 14 +5/-1mm,

M6 x 16 +5/-3mm,

M6 x 18 +5/-5mm,

M6 x 20 +5/-7mm



Rod guide

	Part Number	Height adjustable	Adjustment range	Version	Fastening type	Material
a)	200-9615.00-00000	Yes	max. + 5 mm	RS	screwed on	PA
b)	200-3606.03-00000			RS	screwed on	PA

	Accessories
c)	203-0605.03-00000 **Bushings**

Rod Guide, height adjustable Stainless Steel

[7-912]

RoHS WEEE



Advantages

- Rod guide with adjustable height for 8 mm round rods, to compensate production tole-rances, or if sealing has set.
- Slotted insert (max.12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6 by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- PA version see product-system 1-192.

Materials

- **Rod guide:** stainless steel AISI 316
- **Adjusting screw:** stainless steel AISI 303
- **C-clip and wave washer:** stainless steel

Remarks

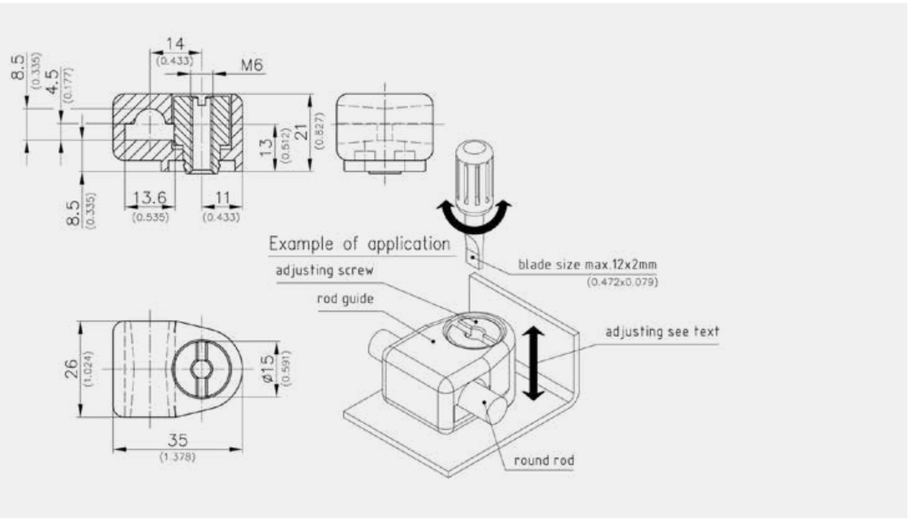
Adjustment depending on the lenght of the weld stud:

M6 x 14 +5/-1 mm,

M6 x 16 +5/-3 mm,

M6 x 18 +5/-5 mm,

M6 x 20 +5/-7 mm



Rod guide

Part Number	Version	Fastening type	Height adjustable	Material	Adjustment range
200-9623.00-00000	RS	screwed on	Yes	stainless steel	max. + 5 mm

Cams L35/45 steel

[1-102]

RoHS WEEE



Advantages

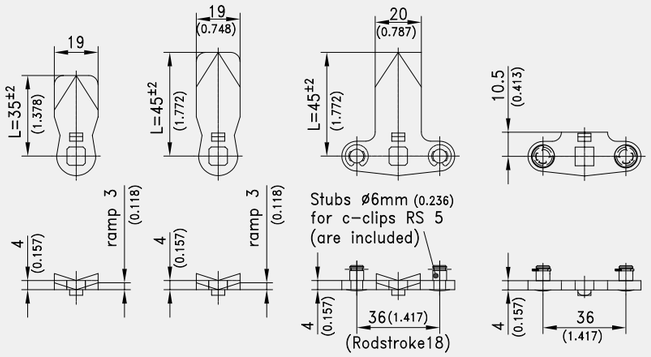
- Cams with 35mm and 45mm length for 1-point locking.
- Cam adapter see product system 2-151, 2-151.01, 2-151.04.
- 3-point cam for 3-point locking.
- 2-point cam as rod control for 2-point locking.

Materials

- **Cams:** steel, zinc plated

Remarks

Stainless steel cams see product system 7-105



Cams, L45, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-0402.00-00000		2 mm	4 mm	6 mm	14 mm	16 mm	20 mm	24 mm	26 mm	30 mm	34 mm	40 mm	44 mm	50 mm
200-0404.00-00000		4 mm	6 mm	8 mm	16 mm	18 mm	22 mm	26 mm	28 mm	32 mm	36 mm	42 mm	46 mm	52 mm
200-0406.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-0408.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-0410.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-0413.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-0414.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-0416.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-0418.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-0420.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-0422.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-0424.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-0425.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-0426.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-0428.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-0430.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-0432.00-00000	26 mm	32 mm	34 mm	36 mm	44 mm	46 mm	50 mm	54 mm	56 mm	60 mm	64 mm	70 mm	74 mm	80 mm
200-0434.00-00000	28 mm	34 mm	36 mm	38 mm	46 mm	48 mm	52 mm	56 mm	58 mm	62 mm	66 mm	72 mm	76 mm	82 mm
200-0435.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-0436.00-00000	30 mm	36 mm	38 mm	40 mm	48 mm	50 mm	54 mm	58 mm	60 mm	64 mm	68 mm	74 mm	78 mm	84 mm
200-0438.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-0440.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-0442.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-0444.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm
200-0445.00-00000	39 mm	45 mm	47 mm	49 mm	57 mm	59 mm	63 mm	67 mm	69 mm	73 mm	77 mm	83 mm	87 mm	93 mm
200-0447.00-00000	41 mm	47 mm	49 mm	51 mm	59 mm	61 mm	65 mm	69 mm	71 mm	75 mm	79 mm	85 mm	89 mm	95 mm
200-0450.00-00000	44 mm	50 mm	52 mm	54 mm	62 mm	64 mm	68 mm	72 mm	74 mm	78 mm	82 mm	88 mm	92 mm	98 mm
200-0453.00-00000	47 mm	53 mm	55 mm	57 mm	65 mm	67 mm	71 mm	75 mm	77 mm	81 mm	85 mm	91 mm	95 mm	101 mm
200-0455.00-00000	49 mm	55 mm	57 mm	59 mm	67 mm	69 mm	73 mm	77 mm	79 mm	83 mm	87 mm	93 mm	97 mm	103 mm

Cams, L35, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-0606.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-0608.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-0610.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-0613.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-0614.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-0616.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-0618.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-0620.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-0622.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-0624.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-0625.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-0626.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-0628.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-0630.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-0635.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-0638.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-0640.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-0642.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-0644.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm

3-Point Cam, H-dimensions

Part Number	GI12	GI18	GI20	GI22	GI30	GI32	GI36	GI40	GI42	GI46	GI50	GI56	GI60	GI66
200-9504.00-00000		4 mm	6 mm	8 mm	16 mm	18 mm	22 mm	26 mm	28 mm	32 mm	36 mm	42 mm	46 mm	52 mm
200-9506.00-00000		6 mm	8 mm	10 mm	18 mm	20 mm	24 mm	28 mm	30 mm	34 mm	38 mm	44 mm	48 mm	54 mm
200-9508.00-00000		8 mm	10 mm	12 mm	20 mm	22 mm	26 mm	30 mm	32 mm	36 mm	40 mm	46 mm	50 mm	56 mm
200-9510.00-00000		10 mm	12 mm	14 mm	22 mm	24 mm	28 mm	32 mm	34 mm	38 mm	42 mm	48 mm	52 mm	58 mm
200-9513.00-00000	6 mm	13 mm	15 mm	17 mm	25 mm	27 mm	31 mm	35 mm	37 mm	41 mm	45 mm	51 mm	55 mm	61 mm
200-9514.00-00000	8 mm	14 mm	16 mm	18 mm	26 mm	28 mm	32 mm	36 mm	38 mm	42 mm	46 mm	52 mm	56 mm	62 mm
200-9516.00-00000	10 mm	16 mm	18 mm	20 mm	28 mm	30 mm	34 mm	38 mm	40 mm	44 mm	48 mm	54 mm	58 mm	64 mm
200-9518.00-00000	12 mm	18 mm	20 mm	22 mm	30 mm	32 mm	36 mm	40 mm	42 mm	46 mm	50 mm	56 mm	60 mm	66 mm
200-9520.00-00000	14 mm	20 mm	22 mm	24 mm	32 mm	34 mm	38 mm	42 mm	44 mm	48 mm	52 mm	58 mm	62 mm	68 mm
200-9522.00-00000	16 mm	22 mm	24 mm	26 mm	34 mm	36 mm	40 mm	44 mm	46 mm	50 mm	54 mm	60 mm	64 mm	70 mm
200-9524.00-00000	18 mm	24 mm	26 mm	28 mm	36 mm	38 mm	42 mm	46 mm	48 mm	52 mm	56 mm	62 mm	66 mm	72 mm
200-9525.00-00000	19 mm	25 mm	27 mm	29 mm	37 mm	39 mm	43 mm	47 mm	49 mm	53 mm	57 mm	63 mm	67 mm	73 mm
200-9526.00-00000	20 mm	26 mm	28 mm	30 mm	38 mm	40 mm	44 mm	48 mm	50 mm	54 mm	58 mm	64 mm	68 mm	74 mm
200-9528.00-00000	22 mm	28 mm	30 mm	32 mm	40 mm	42 mm	46 mm	50 mm	52 mm	56 mm	60 mm	66 mm	70 mm	76 mm
200-9530.00-00000	24 mm	30 mm	32 mm	34 mm	42 mm	44 mm	48 mm	52 mm	54 mm	58 mm	62 mm	68 mm	72 mm	78 mm
200-9532.00-00000	26 mm	32 mm	34 mm	36 mm	44 mm	46 mm	50 mm	54 mm	56 mm	60 mm	64 mm	70 mm	74 mm	80 mm
200-9534.00-00000	28 mm	34 mm	36 mm	38 mm	46 mm	48 mm	52 mm	56 mm	58 mm	62 mm	66 mm	72 mm	76 mm	82 mm
200-9535.00-00000	29 mm	35 mm	37 mm	39 mm	47 mm	49 mm	53 mm	57 mm	59 mm	63 mm	67 mm	73 mm	77 mm	83 mm
200-9536.00-00000	30 mm	36 mm	38 mm	40 mm	48 mm	50 mm	54 mm	58 mm	60 mm	64 mm	68 mm	74 mm	78 mm	84 mm
200-9538.00-00000	32 mm	38 mm	40 mm	42 mm	50 mm	52 mm	56 mm	60 mm	62 mm	66 mm	70 mm	76 mm	80 mm	86 mm
200-9540.00-00000	34 mm	40 mm	42 mm	44 mm	52 mm	54 mm	58 mm	62 mm	64 mm	68 mm	72 mm	78 mm	82 mm	88 mm
200-9542.00-00000	36 mm	42 mm	44 mm	46 mm	54 mm	56 mm	60 mm	64 mm	66 mm	70 mm	74 mm	80 mm	84 mm	90 mm
200-9544.00-00000	38 mm	44 mm	46 mm	48 mm	56 mm	58 mm	62 mm	66 mm	68 mm	72 mm	76 mm	82 mm	86 mm	92 mm
200-9545.00-00000	39 mm	45 mm	47 mm	49 mm	57 mm	59 mm	63 mm	67 mm	69 mm	73 mm	77 mm	83 mm	87 mm	93 mm
200-9547.00-00000	41 mm	47 mm	49 mm	51 mm	59 mm	61 mm	65 mm	69 mm	71 mm	75 mm	79 mm	85 mm	89 mm	95 mm
200-9550.00-00000	44 mm	50 mm	52 mm	54 mm	62 mm	64 mm	68 mm	72 mm	74 mm	78 mm	82 mm	88 mm	92 mm	98 mm

2-Point Cam

Part Number	Stop	Installation type
200-9599.00-00000	Yes	screw-on

Accessories
1-260 **Hooked Cam**
1-261 **Cams with Ramp**
1-262 **Cam variable**
2-151 **2-, 3- and 4-Point Cam Adapter**
2-150 **3-Point Cam**
2-151.04 **3-Point Cam Adapter**

3-Point Cam

[2-150]

RoHS WEEE



for swinghandles

Advantages

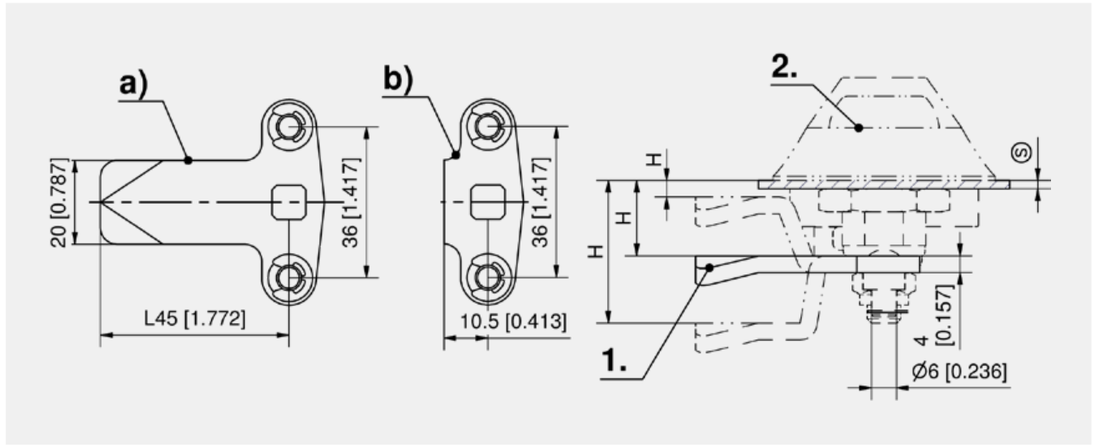
- 3-point cam, without 90° stop.
- For applications with swinghandles.
- The 4mm high shoulder (Ø10) makes a straight rod (without bending) run over the internal dustcap of the swinghandle.

Materials

- **Cam:** steel, zinc plated

Remarks

1. Ramp 3mm
2. Swinghandle without cam stop



3- or 4-point Cam, L45

	Part Number	H-dimension	Stop
a)	207-9504.00-00000	4 mm	No
a)	207-9506.00-00000	6 mm	No
a)	207-9508.00-00000	8 mm	No
a)	207-9510.00-00000	10 mm	No
a)	207-9513.00-00000	13 mm	No
a)	207-9514.00-00000	14 mm	No
a)	207-9516.00-00000	16 mm	No
a)	207-9518.00-00000	18 mm	No
a)	207-9520.00-00000	20 mm	No
a)	207-9522.00-00000	22 mm	No
a)	207-9524.00-00000	24 mm	No
a)	207-9525.00-00000	25 mm	No
a)	207-9526.00-00000	26 mm	No

	Part Number	H-dimension	Stop
a)	207-9528.00-00000	28 mm	No
a)	207-9530.00-00000	30 mm	No
a)	207-9532.00-00000	32 mm	No
a)	207-9534.00-00000	34 mm	No
a)	207-9535.00-00000	35 mm	No
a)	207-9536.00-00000	36 mm	No
a)	207-9538.00-00000	38 mm	No
a)	207-9540.00-00000	40 mm	No
a)	207-9542.00-00000	42 mm	No
a)	207-9544.00-00000	44 mm	No
a)	207-9545.00-00000	45 mm	No
a)	207-9547.00-00000	47 mm	No
a)	207-9550.00-00000	50 mm	No

2-point cam

	Part Number	Stop
b)	207-9599.00-00000	No

	Accessories
	1-170 **Round Rod with Eye**
	1-180 **Round Rods for Adapter**

2-, 3- and 4-Point Cam Adapter

[2-151]

RoHS WEEE



Advantages

- 3-point cam adapter for cams of product system 1-102.
- With and without 90° stop.
- The raised rod stub is necessary for swinghandles, enabling the lower rod passing over the lower cap.
- 4-point cam adapter: with additional linkage.
- For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used. E.g. controlling a switch or defeater-mechanism.

Materials

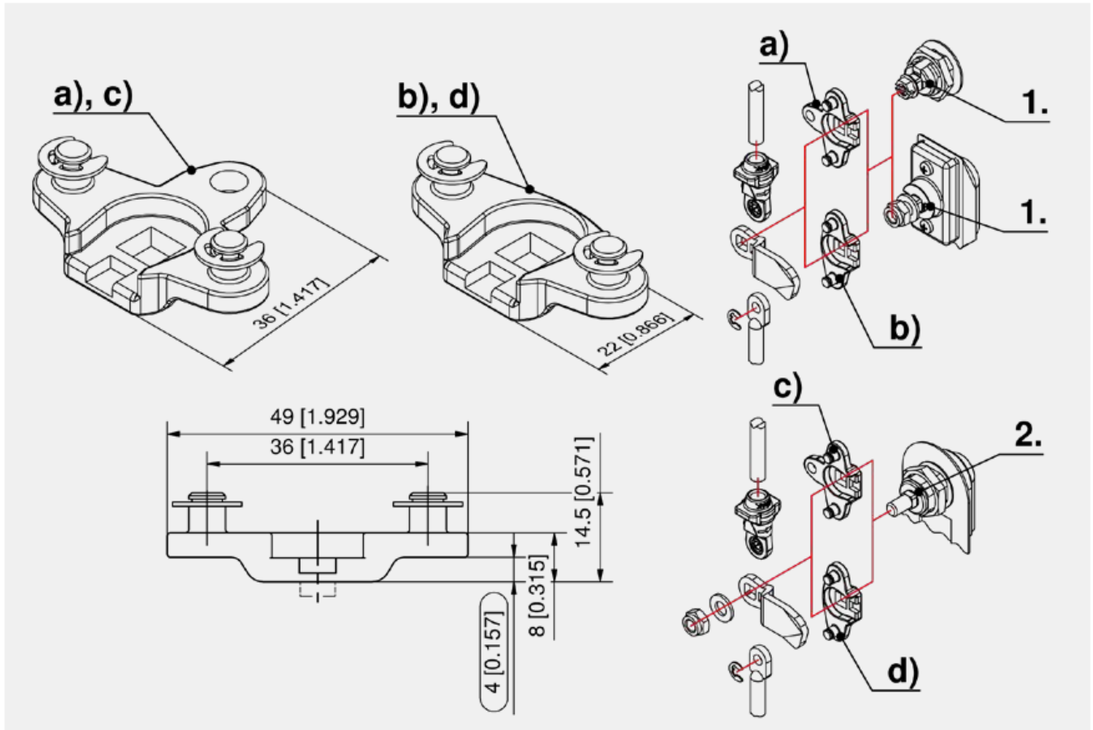
- **3-point cam adapter and 4-point cam adapter:** zinc die, zinc plated

Remarks

incl. 2 c-clips

Note: H-dimension of cam (C) increases by 4mm / 0.157. E.g. cam 200-0418 results in an H-dimension of 22mm / 0.866. Please pay attention to the screw length: screw should enter at least 6mm / 0.236.

1. with stop
2. without stop



Adapter for 3- or 4-point Cam

	Part Number	Stop	2-point cam	3-point cam	4-point cam	Material	Surface
a)	200-9595.00-00000	Yes	Yes	Yes	Yes	zinc die	zinc plated
c)	200-9596.00-00000	Yes	Yes	Yes	No	zinc die	zinc plated
b)	207-9595.00-00000	No	Yes	Yes	Yes	zinc die	zinc plated
d)	207-9596.00-00000	No	Yes	Yes	No	zinc die	zinc plated

3-Point Cam Adapter

[2-151.04]



Advantages

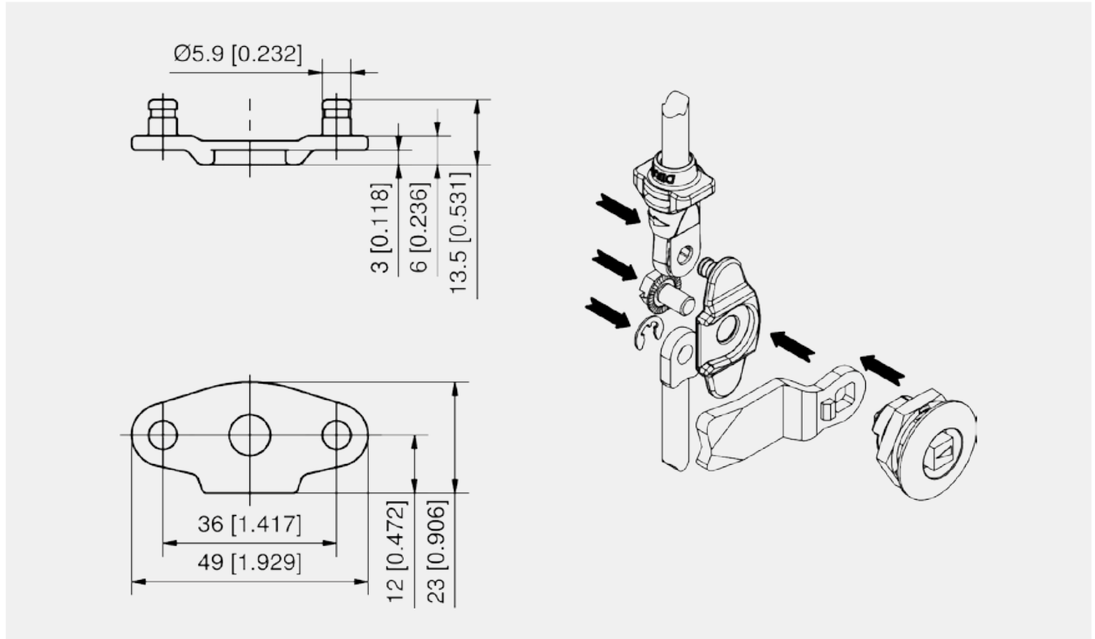
- 3-point cam adapter for cams of product system 1-102.
- The adapter is attached to the back of the cam does not affect the H-dimension.

Materials

- **3-point cam adapter:** zinc die, zinc plated

Remarks

incl. 2 c-clips



3-Point Cam Adapter

Part Number	3-point cam	Material	Surface
207-9589.00-00000	Yes	zinc die	zinc plated

3- and 4-Point Cam Adapter stainless steel

[7-106.02]



3- and 4-point cam adapter alternative to 2- or 3-point cam, see product system 7-105

Advantages

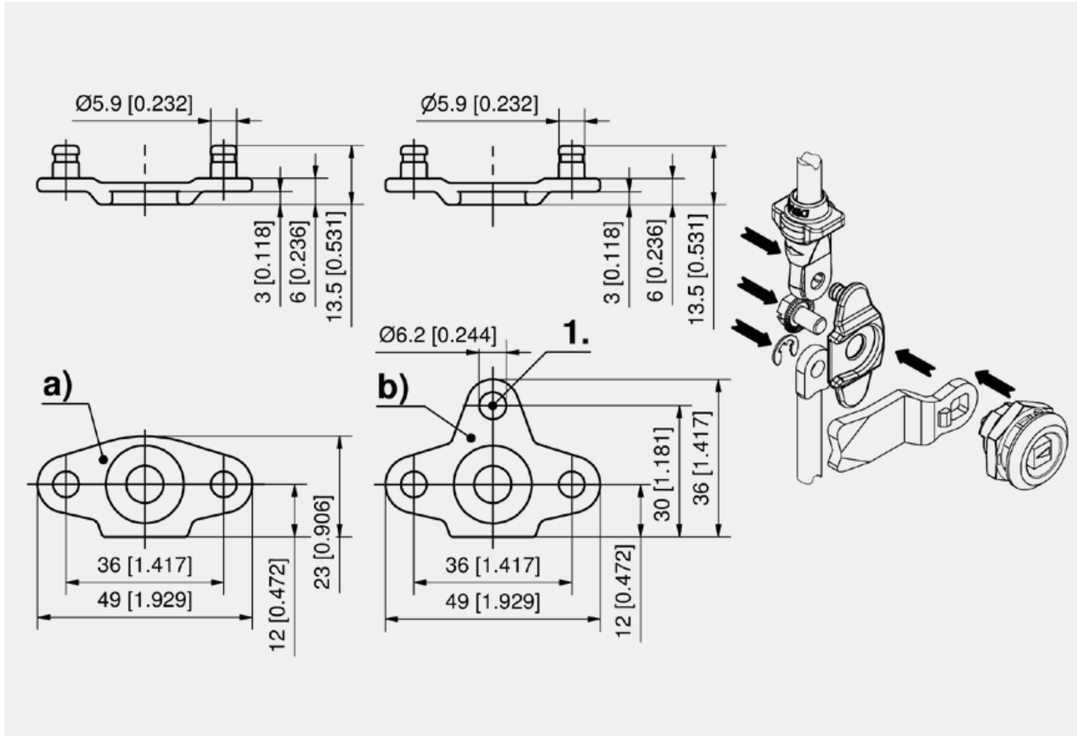
- For use in combination with standard cams see product system 1-102 and 7-080, used for 3- and 4-point latching applications.
- For 4-point application use additional link.
- For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used (e.g. controlling a switch or defeatermechanism).
- The adapter is attached to the back of the cam and does not affect the H-dimension!

Materials

- **Multipoint cam adapter:** stainless steel AISI 304

Remarks

1. = Loop



Adapter for 3- or 4-point Cam

	Part Number	Material	3-point cam	4-point cam
a)	207-9590.00-00000	stainless steel	Yes	No
b)	207-9592.00-00000	stainless steel	Yes	Yes

3-Point Cam Adapter adjustable

[2-151.01]



Advantages

- 3-point cam adapter adjustable by knurled wheel.
- Tool-less adjustment with knurled wheel.
- RH/ LH application.
- Axial adjustable.
- Usable with standard cams.
- Readjustable at any time.
- 3-point locking system.
- Knurled wheel with thread M10.

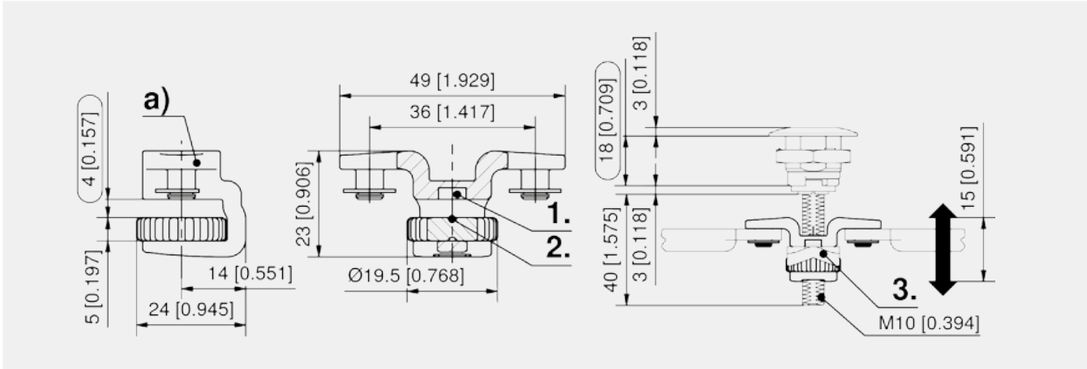
Materials

- **3-point cam adapter:** zinc die, zinc plated

Remarks

Incl. 2 c-clips

1. = Recess for cams with stop
2. = Detent
3. = Cam



Adapter for 3- or 4-point Cam

Part Number	3-point cam	Material	Surface
200-9632.00-00000	Yes	zinc die	zinc plated

Catch for standard Cams

[2-151.02]



Advantages

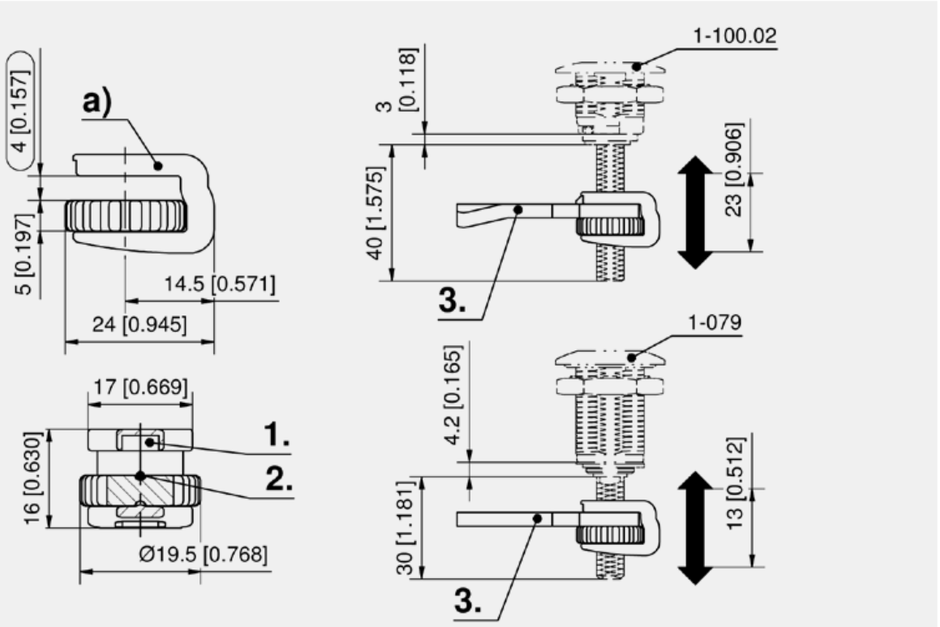
- This catch is suitable for all M10 square threaded rods.
- Tool-less adjustment of standard cams 1-102.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

Materials

- **Catch:** PA, black
- **Stop washer:** zinc die, zinc plated

Remarks

1. = Recess for cams with stop
2. = Detent (6x)
3. = Cam

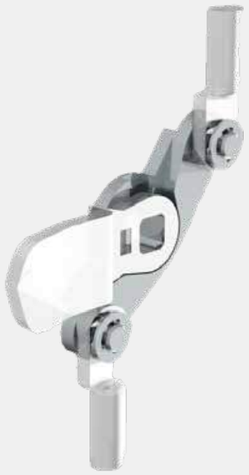


Accessories Cams

	Part Number	Version	Surface
a)	248-9901.00-00000	stop washer M10	zinc plated

Cam Adapter 45° stainless steel

[7-106.01]



Advantages

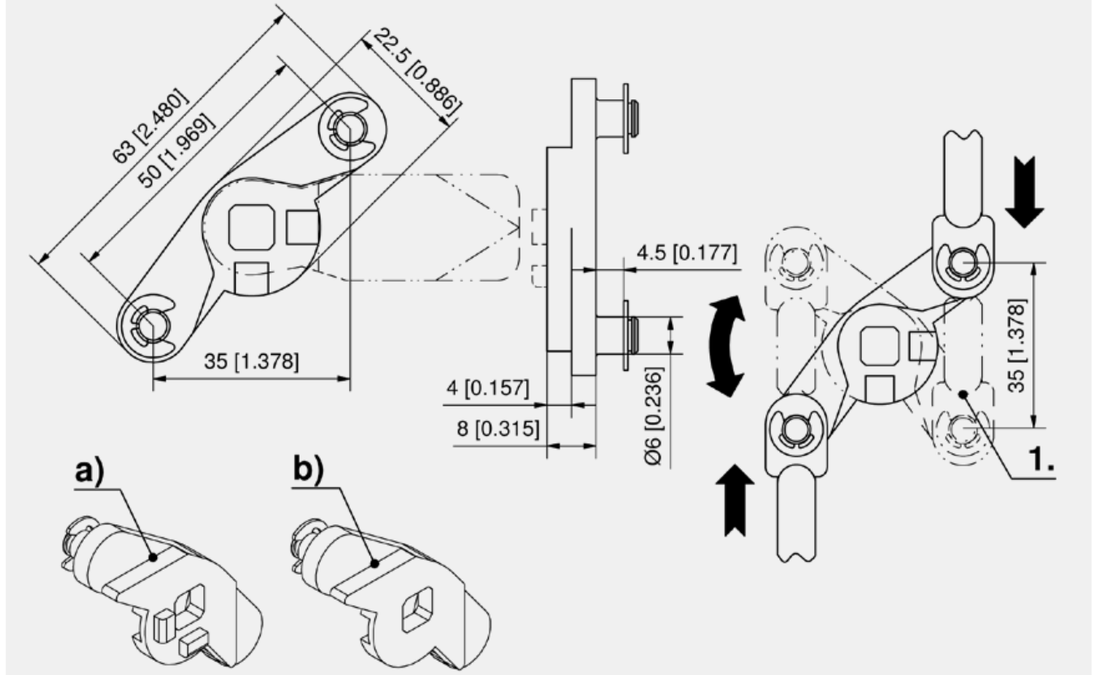
- 3-point cam adapter with stop made of stainless steel.
- For applications with stainless steel swinghandle see product system 7-066.
- All cams of product system 7-080 can be applied.
- Round rods with eye see product system 7-106.
- **Note:** H-dimension of cam increases by 4mm. E.g. cam 200-0518 results in an H-dimension of 22mm. See product system 2-151.

Materials

- **3-point cam adapter:** stainless steel AISI 316L

Remarks

1. stroke 35mm



Adapter for 3- or 4-point Cam

	Part Number	Material	Stop	2-point cam	3-point cam
a)	200-9598.00-00000	stainless steel	Yes	Yes	Yes
b)	207-9594.00-00000	stainless steel	No	Yes	Yes

Accessories
7-106 **Round Rods stainless steel**
200-3623.51-00000 **Rod guide**
200-3625.51-00000 **Rod guide**

Sliding Cap

[2-091]



Advantages

For swinghandles as supplementary product for product system 2-090, 2-090.01, 2-090.02, 2-090.03, 2-090.04 and 3-150.

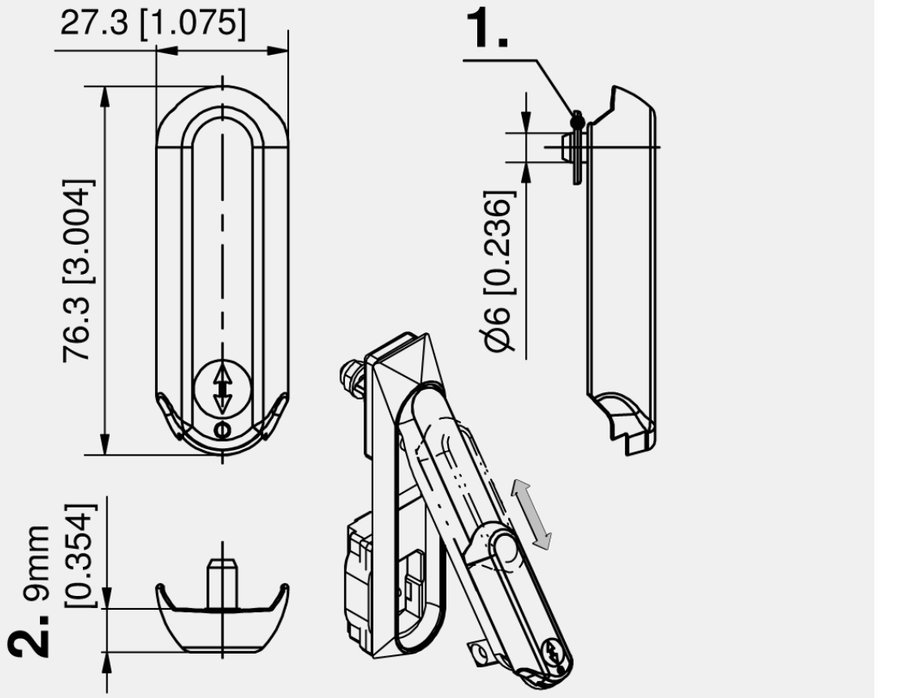
- The sliding cap is an accessory for swinghandles.
- Protects the cylinder cap.
- Can be assembled on all swinghandles, for which a swiveling cylinder cover is provided.
- The existing hole is used.
- For profile cylinder 40 and 45mm.
- Also for raised profile cylinders.
- Sliding cap is sealable.

Materials

- **Sliding cap:** zinc die, black
- **Axis seizing collar:** stainless steel

Remarks

1. = Axis seizing collar
2. = The swinghandle increases by 9mm



Sliding Cap

Part Number	Material	Surface
207-9702.00-00000	zinc die	black

Grounding clip Stainless Steel

[3-011]



Grounding clip for rod latch system and bearing plate

Advantages

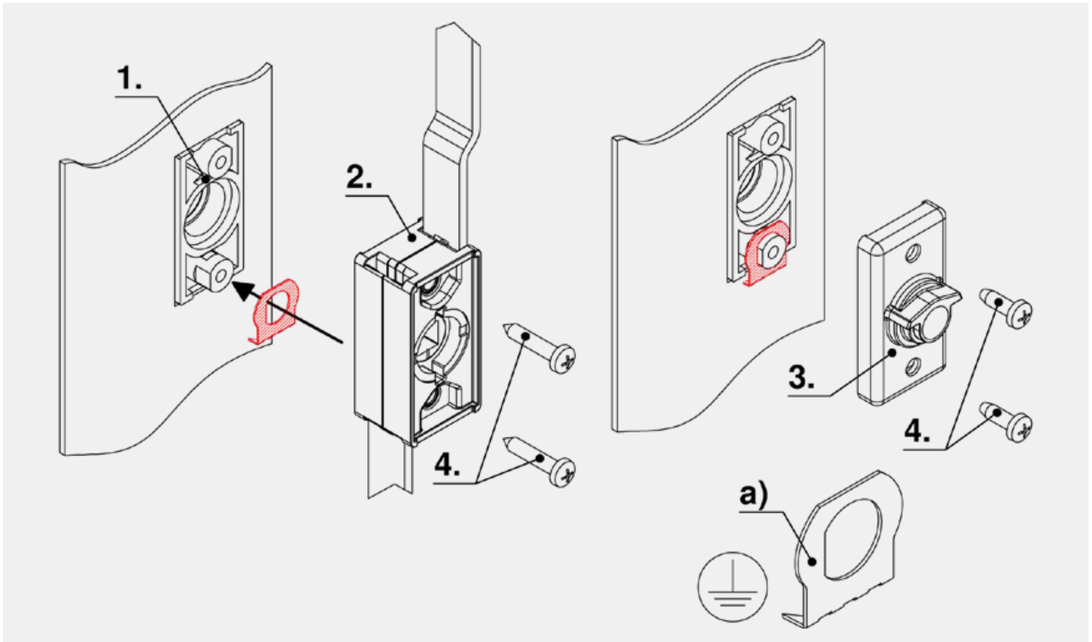
- Tested by the VDE testing and certification Institute in Offenbach.
- Passed all tests according to DIN (VDE 0100 part 540): 2012-06 as well as DIN EN 61439-1 (VDE 0660 part 600): 2012-06 section 8.4.3.2.2 and 10.5.2.
- Anodised and powder coated (epoxy and polyester) panels were tested with a thickness of up to 240µm.

Materials

- **Grounding clip:** stainless steel AISI 301

Remarks

1. = Back of the latching devices
2. = Flat rod latch
3. = Bearing, Cam / 3-point cam
4. = Clamping torque 2 Nm



Grounding

Part Number	Name	Grounding
208-1206.93-00000	Grounding clip	Yes

Inserts

[2-141]



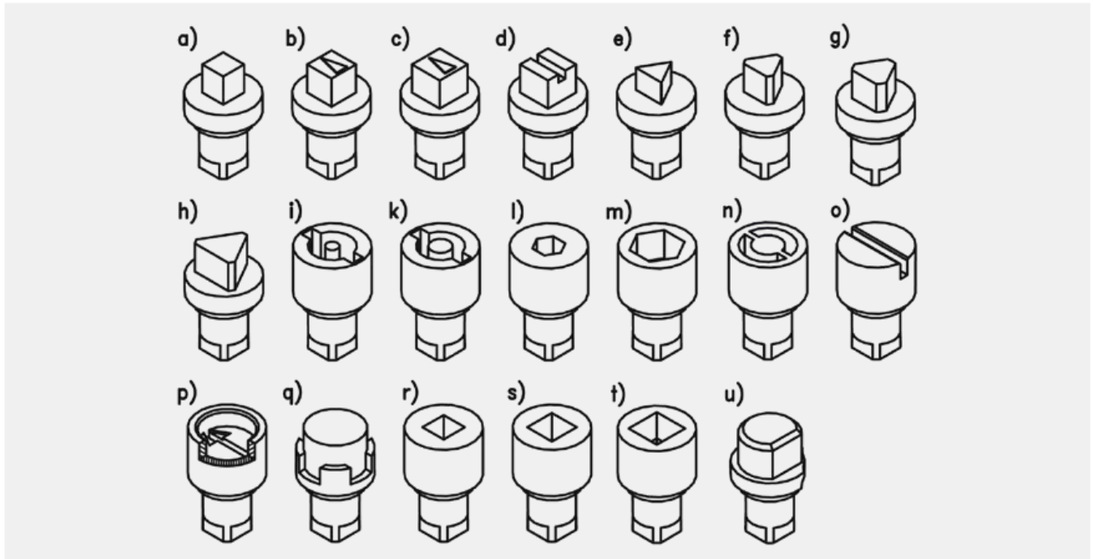
for swinghandles

Advantages

- Inserts with spring washer for swinghandle see product system 2-070, 2-080.01, 2-080.02, 2-090, 3-070 and 3-155.02.
- Suitable keys see product system 6-100.
- Insert sets consist of insert and spring washer.
- For further versions please contact DIRAK.

Materials

- **Insert:** zinc die, chrome plated
- **Wave washer:** spring steel, zinc plated



Inserts

	Part Number	Insert
a)	211-9501.00-00000	Square 6mm
b)	211-9502.00-00000	Square 7mm
c)	211-9503.00-00000	Square 8mm
d)	211-9504.00-00000	Square 8mm, slotted
e)	211-9505.00-00000	Triangular 6.5mm CNOMO
f)	211-9506.00-00000	Triangular 7mm
g)	211-9507.00-00000	Triangular 8mm
h)	211-9508.00-00000	Triangular 9mm EDF
i)	211-9509.00-00000	Double bit 3mm pin
k)	211-9510.00-00000	Double bit 5mm pin
l)	211-9511.00-00000	Socket hex. 6mm
m)	211-9512.00-00000	Socket hex. 10mm
n)	211-9513.00-00000	Daimler Benz type
o)	211-9514.00-00000	Slotted 2x4mm
p)	211-9515.00-00000	Slotted recessed coinproof
q)	211-9516.00-00000	Crown type
r)	211-9517.00-00000	Square socket 6mm
s)	211-9518.00-00000	Square socket 7mm
t)	211-9519.00-00000	Square socket 8mm
u)	211-9520.00-00000	Crescent czech

Profile-Cylinder DIN 18252

[2-140]

RoHS
WEEE



Advantages

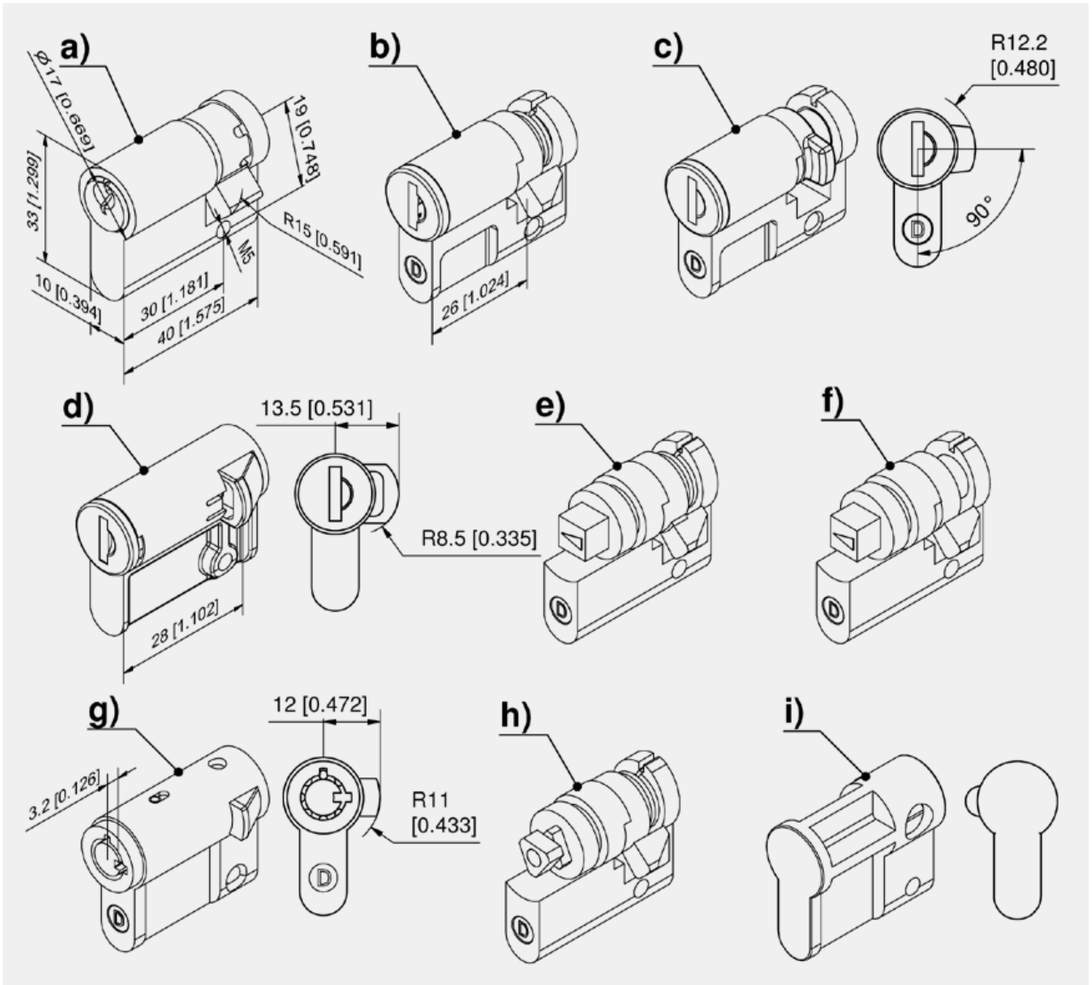
- **a):** Clip-in cam 8x45° adjustable. Key removable in closed status only.
- **b):** Spring-loaded clip-in cam. Dust-shutter.
- **c):** Cam has 90° stroke, **not** clip-in. Cam length is 12.2mm/0.480. Dust-shutter.
- **d)** Clip-in cam. Dust-shutter.
- **e):** Spring-loaded clip-in cam.
- **f):** Cam **not** clip-in, 360° stroke.
- **g):** Radial pin tumbler cylinder, clip-in cam.
- **h):** Insert triangular 8, the first 4 mm of the insert are free rotating. Spring-loaded clip-in cam.
- **i):** Polyamide-plug with and without spring-loaded ball.

Materials

- **a):** brass, nickel plated
- **b), c), e) f) and g):** zinc die, chrome plated
- **i) and d):** PA, black
- **Barrel cylinder:** zinc die
- **Dust-shutter:** stainless steel

Remarks

Versions b), c), d) and g) are supplied with 2, Version a) with 3 keys.



Profile-cylinder with pin tumbler cylinder, DIN 18252, 8 x 45° adjustable

	Part Number	Name	Latching type	Clip-in
a)	211-9003.00-00000	DIRAK Profile-cylinder	keyed alike	No
a)	211-9004.00-00000	DIRAK Profile-cylinder	keyed different	No

Profile-cylinder with cylinder barrel

	Part Number	Name	Latching type	Closing stroke	Clip-in
b)	211-9101.00-00000	Profile-Cylinder	keyed different		Yes
b)	211-9102.00-00000	Profile-Cylinder	keyed alike DIRAK 1333		Yes
b)	511-9102.00-00000	Profile-Cylinder	keyed alike DS200		Yes
c)	211-9301.00-00000	Profile-Cylinder	keyed different	90°	No
c)	211-9302.00-00000	Profile-Cylinder	keyed alike DIRAK 1333	90°	No
c)	511-9302.00-00000	Profile-Cylinder	keyed alike DS200	90°	No

Profile-cylinder with cylinder barrel, PA housing, clip-in

	Part Number	Name	Latching type	Clip-in
d)	211-9113.00-00000	Clip-in Profile-cylinder	keyed alike DIRAK 1333	Yes
d)	211-9115.00-00000	Clip-in Profile-cylinder	keyed different (dual entry)	Yes

Profile-cylinder with insert

	Part Number	Name	Insert	Closing stroke	Clip-in
e)	211-9202.00-00000	Profile-cylinder with insert	Square 6mm		Yes
e)	211-9203.00-00000	Profile-cylinder with insert	Square 7mm		Yes
e)	211-9204.00-00000	Profile-cylinder with insert	Square 8mm		Yes
e)	211-9205.00-00000	Profile-cylinder with insert	Square 8mm, slotted		Yes
e)	211-9206.00-00000	Profile-cylinder with insert	Triangular 7mm		Yes
e)	211-9207.00-00000	Profile-cylinder with insert	Triangular 8mm		Yes
e)	211-9208.00-00000	Profile-cylinder with insert	Double bit 3mm pin		Yes
e)	211-9209.00-00000	Profile-cylinder with insert	Double bit 5mm pin		Yes
e)	211-9210.00-00000	Profile-cylinder with insert	Triangular 6.5mm CNOMO		Yes
e)	211-9211.00-00000	Profile-cylinder with insert	Socket hex. 10mm		Yes
e)	211-9212.00-00000	Profile-cylinder with insert	Slotted 2x4mm		Yes
e)	211-9213.00-00000	Profile-cylinder with insert	Daimler Benz type		Yes
e)	211-9214.00-00000	Profile-cylinder with insert	Crown type		Yes
e)	211-9215.00-00000	Profile-cylinder with insert	Square socket 6mm		Yes
e)	211-9216.00-00000	Profile-cylinder with insert	Square socket 7mm		Yes
e)	211-9217.00-00000	Profile-cylinder with insert	Square socket 8mm		Yes
e)	211-9218.00-00000	Profile-cylinder with insert	Slotted recessed coinproof		Yes
e)	211-9219.00-00000	Profile-cylinder with insert	Crescent czech		Yes
e)	211-9220.00-00000	Profile-cylinder with insert	Hex. Belcore 7/16"		Yes
f)	211-9203.00-00001	Profile-cylinder with insert	Square 7mm	360°	No
f)	211-9204.00-00001	Profile-cylinder with insert	Square 8mm	360°	No
f)	211-9206.00-00001	Profile-cylinder with insert	Triangular 7mm	360°	No
f)	211-9207.00-00001	Profile-cylinder with insert	Triangular 8mm	360°	No
f)	211-9208.00-00001	Profile-cylinder with insert	Double bit 3mm pin	360°	No
f)	211-9209.00-00001	Profile-cylinder with insert	Double bit 5mm pin	360°	No
f)	211-9212.00-00001	Profile-cylinder with insert	Slotted 2x4mm	360°	No

Profile-cylinder with radial pin tumbler cylinder

	Part Number	Name	Locking	Latching type	Clip-in
g)	211-9106.00-00000	Profile-cylinder	Push button	keyed different	Yes
g)	211-9107.00-00000	Profile-cylinder	Push button	keyed alike DIRAK D0205	Yes

Profile-cylinder with security insert triangular 8mm

	Part Number	Name	Insert	Clip-in
h)	211-9244.00-00000	Profile-Cylinder	Security insert with free rotating 8mm triangular front part	Yes

Profile-cylinder with blind plug

	Part Number	Name	Clip-in
i)	211-0401.03-00000	Blind plug without spring-loaded ball	No
i)	211-9201.00-00000	Blind plug with spring-loaded ball	Yes

Accessories
6-100 **Key**

Profile-Cylinder Stainless Steel

[7-069]

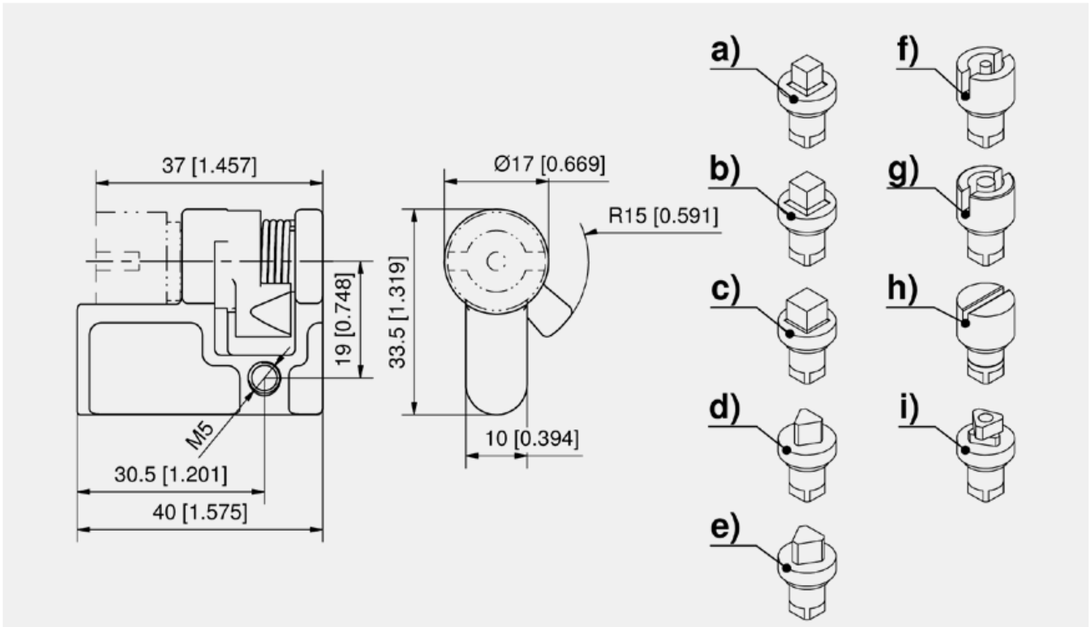


Advantages

- Profile-cylinder with insert for swinghandles see product system 7-060 and 7-066.
- 40mm (1.575) length
- Spring loaded clip-in cam.
- i) Security insert with free rotating 8mm triangular front part. The free rotating front part increases the security because the insert can only be opened with the suitable triangular key.

Materials

- **Housing, cam and insert:** stainless steel AISI 316



Profile-cylinder with insert

	Part Number	Name	Insert
a)	211-9226.00-00000	Profile-Cylinder	Square 6mm
b)	211-9227.00-00000	Profile-Cylinder	Square 7mm
c)	211-9228.00-00000	Profile-Cylinder	Square 8mm
d)	211-9229.00-00000	Profile-Cylinder	Triangular 7mm
e)	211-9230.00-00000	Profile-Cylinder	Triangular 8mm
f)	211-9231.00-00000	Profile-Cylinder	Double bit 3mm pin
g)	211-9232.00-00000	Profile-Cylinder	Double bit 5mm pin
h)	211-9233.00-00000	Profile-Cylinder	Slotted 2x4mm
i)	211-9242.00-00000	Profile-Cylinder	Security insert with free rotating 8mm triangular front part

Accessories
6-100 **Key**

Rod Latch RS

[2-340.01]

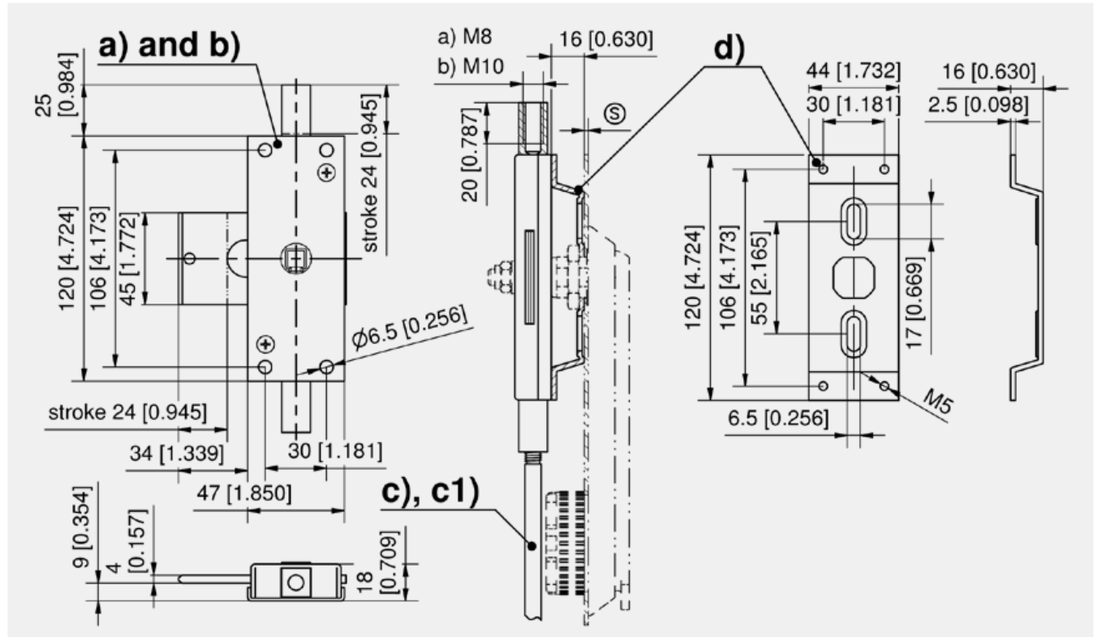


Advantages

- Rod latch with 24mm stroke.
- For bending A=25mm / 0.984.
- For door-thicknesses from 16 to 22 mm / 0.630 to 0.866.
- RH and LH version.
- Rod connection M8 or M10.
- For Swinghandle 130mm see 2-340.

Materials

- **Rod latch:** steel, zinc plated



Rod latch with rod connection threaded M8

	Part Number	Version	Stroke	Opening angle	Installation type
a)	238-9003.00-00000	RH	24 mm	90°	screw-on
a)	238-9004.00-00000	LH	24 mm	90°	screw-on

Rod latch with rod connection threaded M10

	Part Number	Version	Stroke	Opening angle	Installation type
b)	238-9001.00-00000	RH	24 mm	90°	screw-on
b)	238-9002.00-00000	LH	24 mm	90°	screw-on

Accessories
d) 238-1501.00-00000 **Lock support RH/LH, 16mm high**

Rod Latch for internal release

[2-400.01]



Advantages

- For Swinghandle 130mm see 2-400.
- For unlocking when swing-handle is closed.
- Rod latch with 20mm stroke.
- Door-thicknesses from 20 to 106mm.
- RH and LH version.
- Rod connection threaded M8 or M10.

Materials

a) and b)

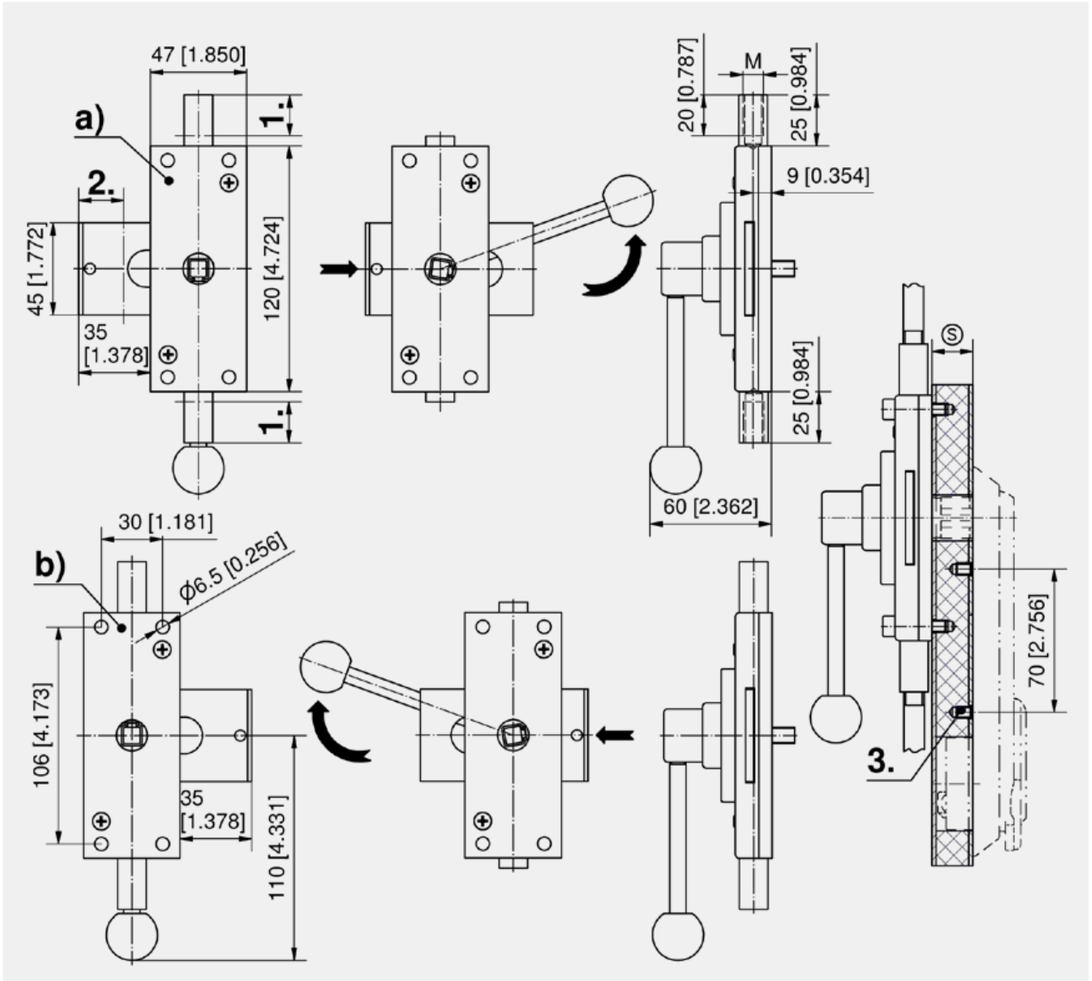
- **Rod latch:** zinc die / steel, zinc plated

Remarks

1.= stroke 20mm

2.= cam-stroke 22mm

3.= Fasting of the dish by countersunk screws (custom made)



Rod latch with rod connection threaded M10, version RH

	Part Number	Version	Door-thickness	Stroke	Opening angle	Installation type
a)	238-9101.00-00000	for swinghandles	20 - 26 mm	20 mm	90°	screw-on
a)	238-9103.00-00000	for swinghandles	27 - 33 mm	20 mm	90°	screw-on
a)	238-9105.00-00000	for swinghandles	34 - 40 mm	20 mm	90°	screw-on
a)	238-9107.00-00000	for swinghandles	70 - 76 mm	20 mm	90°	screw-on
a)	238-9109.00-00000	for swinghandles	100 - 106 mm	20 mm	90°	screw-on

Rod latch with rod connection threaded M10, Version LH

	Part Number	Version	Door-thickness	Stroke	Opening angle	Installation type
b)	238-9102.00-00000	for swinghandles	20 - 26 mm	20 mm	90°	screw-on
b)	238-9104.00-00000	for swinghandles	27 - 33 mm	20 mm	90°	screw-on
b)	238-9106.00-00000	for swinghandles	34 - 40 mm	20 mm	90°	screw-on
b)	238-9108.00-00000	for swinghandles	70 - 76 mm	20 mm	90°	screw-on
b)	238-9110.00-00000	for swinghandles	100 - 106 mm	20 mm	90°	screw-on

Rod latch with rod connection threaded M8, Version RH

	Part Number	Version	Door-thickness	Stroke	Opening angle	Installation type
a)	238-9301.00-00000	for swinghandles	20 - 26 mm	20 mm	90°	screw-on
a)	238-9303.00-00000	for swinghandles	27 - 33 mm	20 mm	90°	screw-on
a)	238-9305.00-00000	for swinghandles	34 - 40 mm	20 mm	90°	screw-on
a)	238-9307.00-00000	for swinghandles	70 - 76 mm	20 mm	90°	screw-on
a)	238-9309.00-00000	for swinghandles	100 - 106 mm	20 mm	90°	screw-on

Rod latch with rod connection threaded M8, Version LH

	Part Number	Version	Door-thickness	Stroke	Opening angle	Installation type
b)	238-9302.00-00000	for swinghandles	20 - 26 mm	20 mm	90°	screw-on
b)	238-9304.00-00000	for swinghandles	27 - 33 mm	20 mm	90°	screw-on
b)	238-9306.00-00000	for swinghandles	34 - 40 mm	20 mm	90°	screw-on
b)	238-9308.00-00000	for swinghandles	70 - 76 mm	20 mm	90°	screw-on
b)	238-9310.00-00000	for swinghandles	100 - 106 mm	20 mm	90°	screw-on

	Specific accessories
	2-400 **Swinghandle for rod latch 2-400.01**



Multi-Point Systems



Uniform pressure …

The Compression Rod Latch conveniently seals the door by applying uniform force for consistent compression.

Page 346

… on all sides of the door.

The Re-Direction compression latch allows for additional locking points on the top and bottom sides of the door-- without any additional actuation points.

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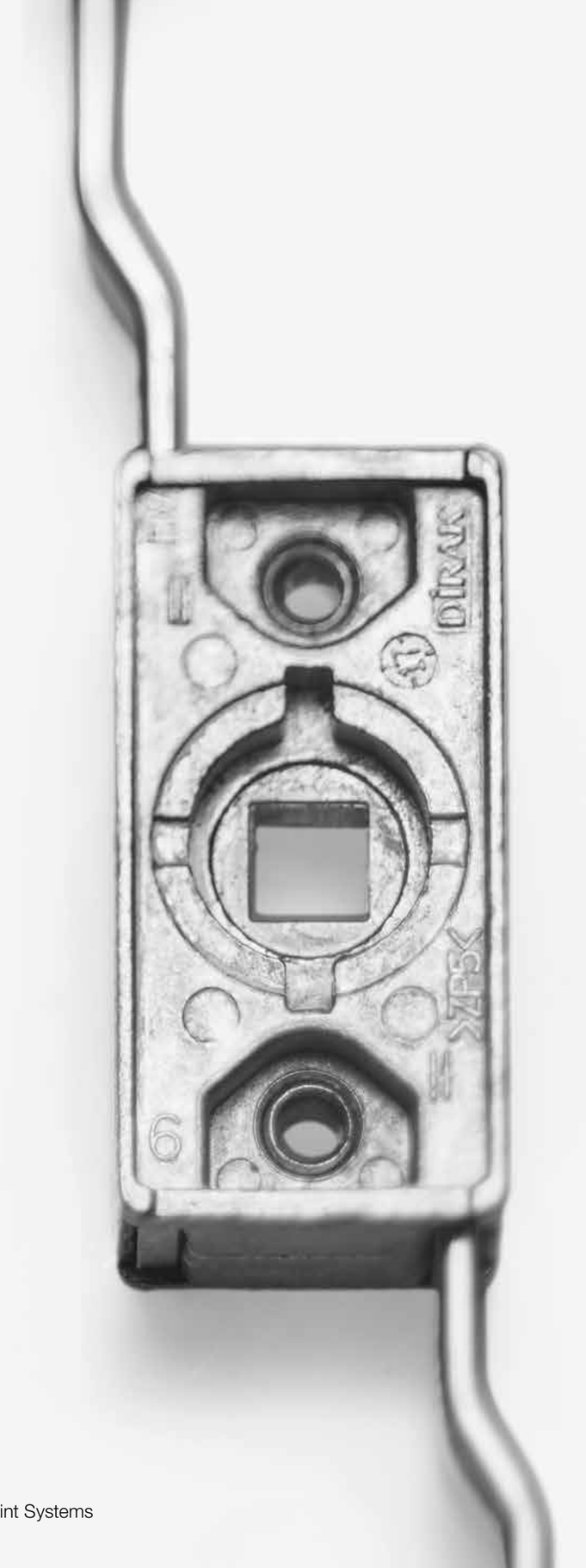


Already finished?

Simply slide the Rod Guide into place for quick and easy tool-less installation.

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Multi-Point Systems



Multi-Point Systems by Cutout

A 50

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Padlock 316
Compression 346–347

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Multi-Point Systems

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384 Profile-Cylinder DIN 18252 [2-140]



386 Profile-Cylinder Stainless Steel [7-069]

Escutcheons and Inserts

A

C

IP 65

RoHS WEEE



Advantages

- Compatible with Rod Latches for cutout A and C.
- IP65 according to DIN EN 60529 with o-rings d) and e).
- Version b), b1) and c) with hook for easy installation.
- Version a1) and b1) only for insert double bit „h)“.
- Version c) only for insert „Fiat“ „k)“.
- Labeling field 8 x 20.
- Lock cover together with rod latch is screwed into the cut-out.
- Fixing screws are part of the delivery.
- Two-part lock cover see 3-135 and 3-136.

Materials

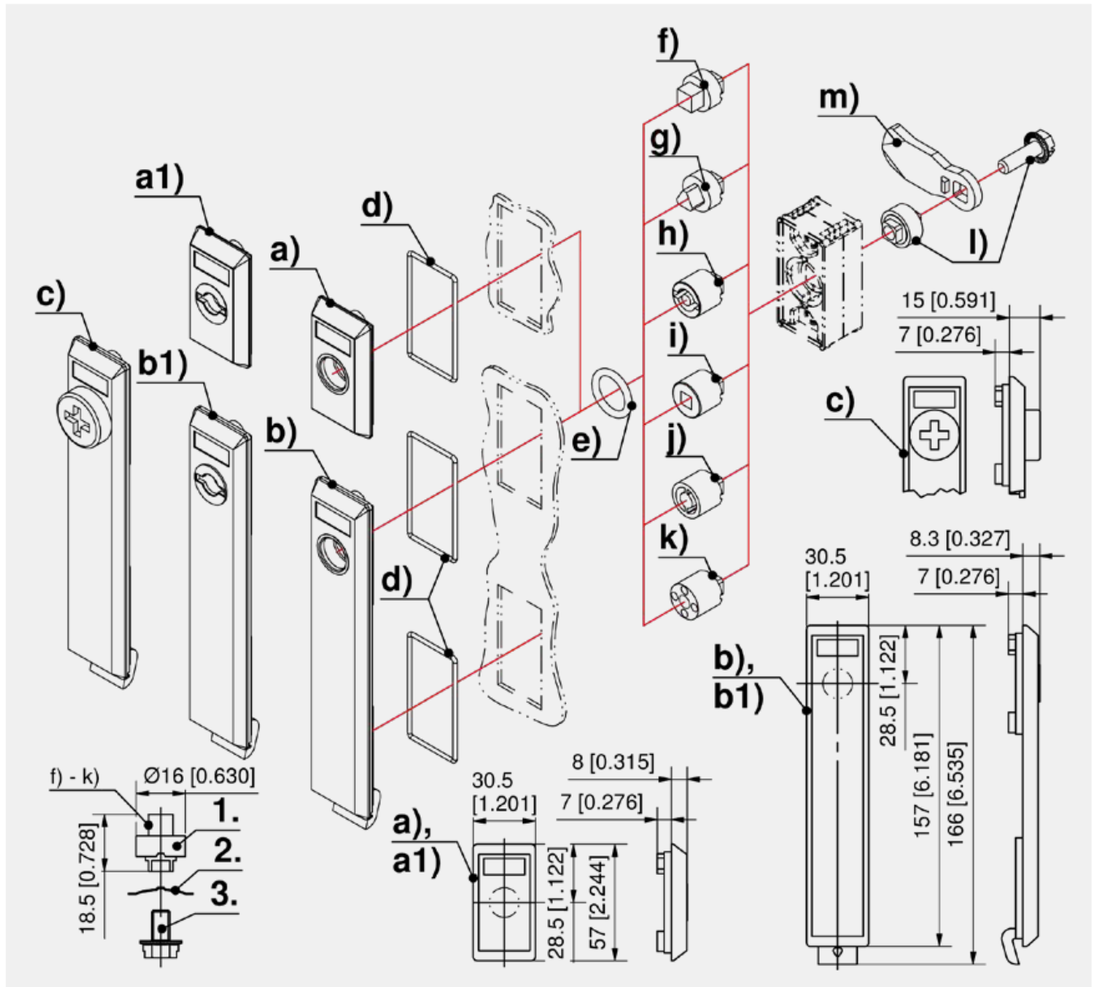
- **Escutcheons:** PA, black
- **Inserts:** zinc die, chrome plated

Remarks

1. Insert
2. Washer
3. Serrated screw

O-ring for escutcheon **PrA** please order **1** pc.

O-ring for escutcheon **PrC** please order **2** pcs.



Escutcheons

	Part Number	Name	Cutout	Installation type
a)	208-9301.00-00000	Escutcheon for triangular, square and Daimler Benz	PrA	screwed
a1)	208-9302.00-00000	Escutcheon for Double bit	PrA	screwed
b)	208-9501.00-00000	Escutcheon for triangular, square and Daimler Benz	PrC	screwed with hook
b1)	208-9502.00-00000	Escutcheon for Double bit	PrC	screwed with hook
c)	208-9503.00-00000	Escutcheon, FIAT Type	PrC	screwed with hook

Inserts

	Part Number	Insert	Material	Surface
f)	208-9201.00-00000	Square 6mm	zinc die	chrome plated
f1)	208-9202.00-00000	Square 7mm	zinc die	chrome plated
f2)	208-9203.00-00000	Square 8mm	zinc die	chrome plated
g)	208-9204.00-00000	Triangular 7mm	zinc die	chrome plated
g1)	208-9205.00-00000	Triangular 8mm	zinc die	chrome plated
g2)	208-9217.00-00000	Triangular 6.5mm CNOMO	zinc die	chrome plated
h)	208-9210.00-00000	Double bit 3mm pin	zinc die	chrome plated
h1)	208-9207.00-00000	Double bit 5mm pin	zinc die	chrome plated
h2)	208-9206.00-00000	Double bit 3mm with stainless steel core	zinc die	chrome plated
i)	208-9212.00-00000	Square socket 6mm	zinc die	chrome plated
j)	208-9208.00-00000	Daimler Benz type	zinc die	chrome plated
k)	208-9209.00-00000	FIAT insert	zinc die	chrome plated

	Accessories
m)	160 1-102 **Cams L35/45 Steel**
	368 3-011 **Grounding clip**
d)	208-1802.00-00000 **O-ring 39.45 x 1.78mm**
e)	208-1801.00-00000 **O-ring 16 x 3.0mm**
l)	374 3-163 **Cam Adapter**

Multi-Point Systems

Escutcheon for Rod Latch PrA

A

IP 54

IP 65

RoHS WEEE



Advantages

- Compatible with the rod latch system with installation cutout A, B and C.
- By using the extension pieces the escutcheon PrA can also be used for instalation cutouts PrB and PrC.
- Polyamide - insert version, zinc die cast - insert and padlock version.
- IP65 according to DIN EN 60529 (in combination with extensions IP54).
- The escutcheon is secured into the cutout with the rod latch.
- b) Maximum diameter of the shackle - Ø10 mm/0.394inch.
- Grounding by grounding clip.

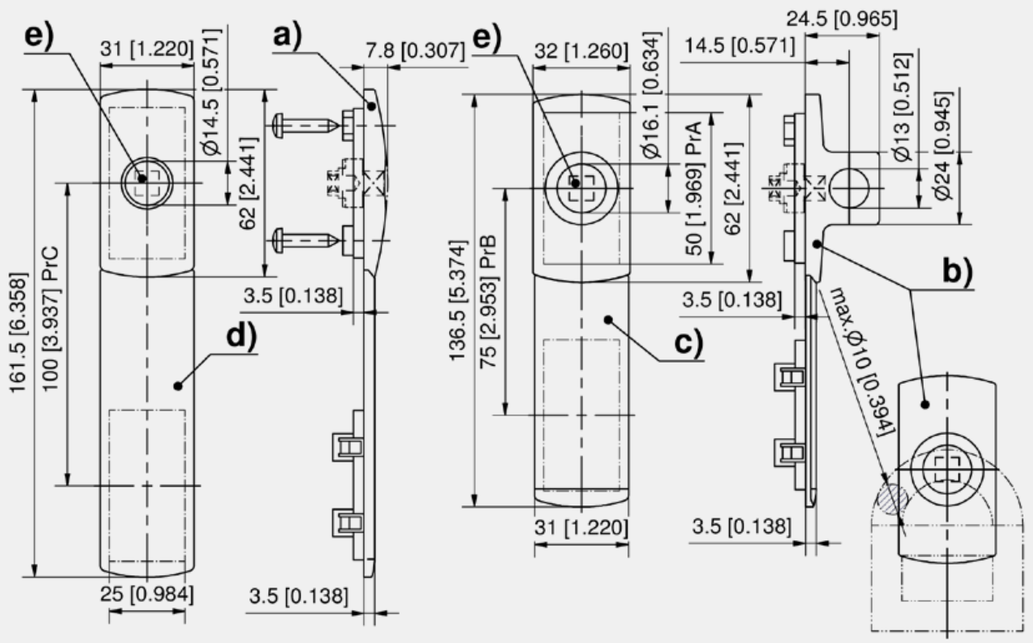
Materials

a)

- **Escutcheon:** PA, black

b)

- **Escutcheon for padlock:** zinc die, black



Escutcheon

	Part Number	Name	Fastening type	Material	Surface
a)	208-9305.00-00000	Escutcheon	screw-on	PA	black
b)	208-9312.00-00000	Escutcheon for padlock	screw-on	zinc die	black

Accessories

e) 314 3-101 **Escutcheons and Inserts**
d) 208-0522.03-00000 **Extension for cutout C**
c) 208-0523.03-00000 **Extension for cutout B**
368 3-011 **Grounding clip**
209-4003.00-00000 **O-Ring**

Cutout-Cover PrA / PrB / PrC

A

B

C

IP 54

RoHS WEEE



Advantages

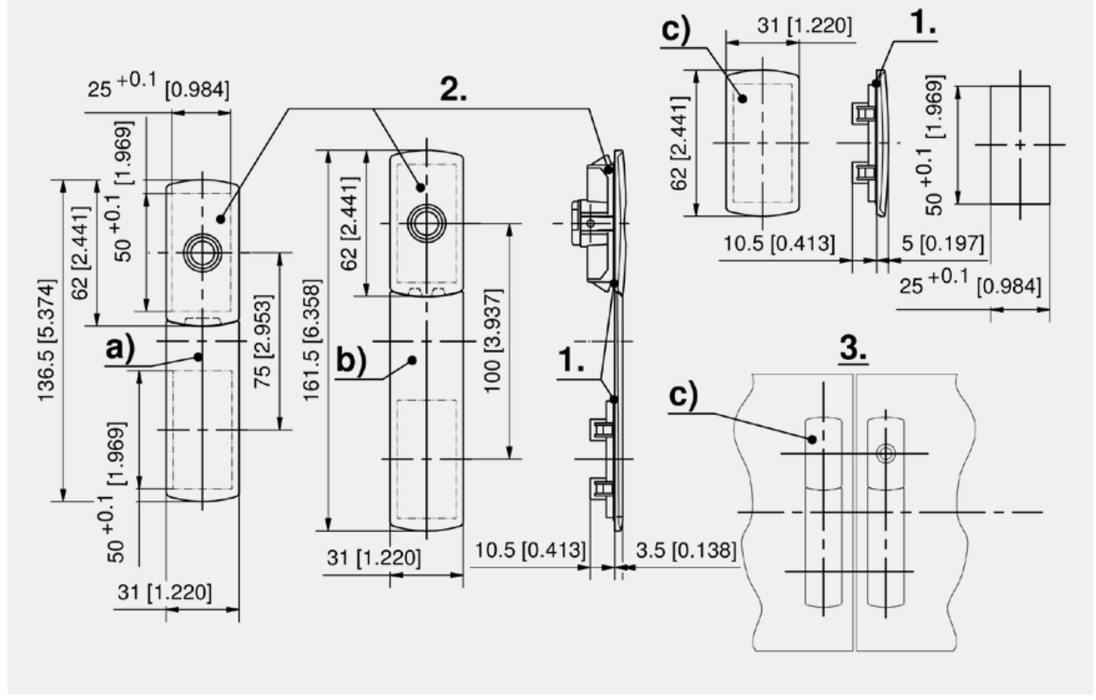
- Tool-less installation.
- Cutout-cover c) PrA for doors / double doors with same cutout.
- Extensions a) and b) for cut-out PrB and PrC.
- For sheet thicknesses from 1.5 to 3mm.
- IP54 according to DIN EN 60529 by o-ring.

Materials

- **Cutout-cover and escutcheon:** PA, black
- **O-Ring:** NBR, black

Remarks

1. o-ring
2. e.g.: 1-100DST
   1-099
   3-135
3. example of application for double doors with equal cutouts



Cutout-cover

	Part Number	Name	Material	Surface	Fastening type
a)	208-0523.03-00000	Extension for cutout B	PA	black	tool-less
b)	208-0522.03-00000	Extension for cutout C	PA	black	tool-less
c)	208-0526.52-00000	Cover for cutout A	PA	black	tool-less

Accessories

208-1804.00-00000 **O-Ring 40 x 2.0**

Lock Cover PrA / PrC Stainless Steel

[7-034]



Advantages

- Lock cover for inserts.
- a) Lock cover compatible with rod latch cutout A.
- a1) Lock cover compatible with rod latch cutout C.
- Lock covers are screwed into the cutout together with the rod latch.
- Version for cutout C will be screwed in addition also in the lower cutout (fixing screws are part of the delivery).
- IP65 according to DIN EN 60529 with sealing kit for cutout A or C.
- Actuation of the rod latch with insert d) – d4).

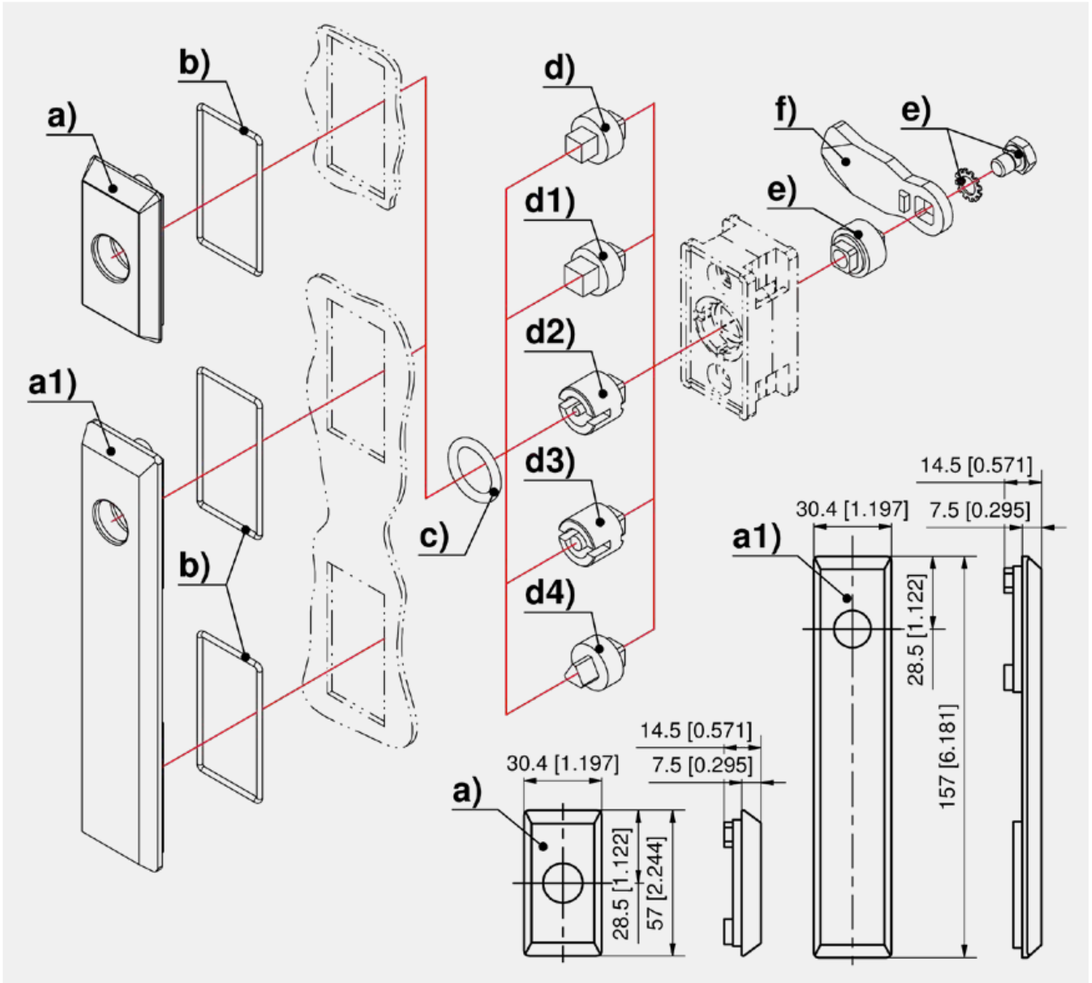
Materials

- **Escutcheons:** stainless steel AISI 316
- **Inserts:** stainless steel AISI 303 or AISI 316

Remarks

O-ring for lock cover **PrA** please order **1 pc.**

O-ring for lock cover **PrC** please order **2 pcs.**



Escutcheons

	Part Number	Name	Cutout	Installation type
a)	208-9304.00-00000	Escutcheon	PrA	screwed
a1)	208-9504.00-00000	Escutcheon	PrC	screwed

Inserts

	Part Number	Insert	Material
d)	208-9218.00-00000	Square 7mm	stainless steel AISI 303
d1)	208-9219.00-00000	Square 8mm	stainless steel AISI 303
d2)	208-9220.00-00000	Double bit 3mm pin	stainless steel AISI 316L
d3)	208-9221.00-00000	Double bit 5mm pin	stainless steel AISI 316L
d4)	208-9222.00-00000	Triangular 7mm	stainless steel AISI 303

Accessories

- f) 162 7-105 **Cams L35/45 Stainless Steel**
- 368 3-011 **Grounding clip**
- b) 208-1802.00-00000 **O-ring 39.45 x 1.78mm**
- c) 208-1801.00-00000 **O-ring 16 x 3.0mm**
- e) 208-9406.00-00000 **Adapter for rod latch system stainless steel**

Handles for Rod Latch FS PrA

[3-110]



for cutout A, for flat rods

Advantages

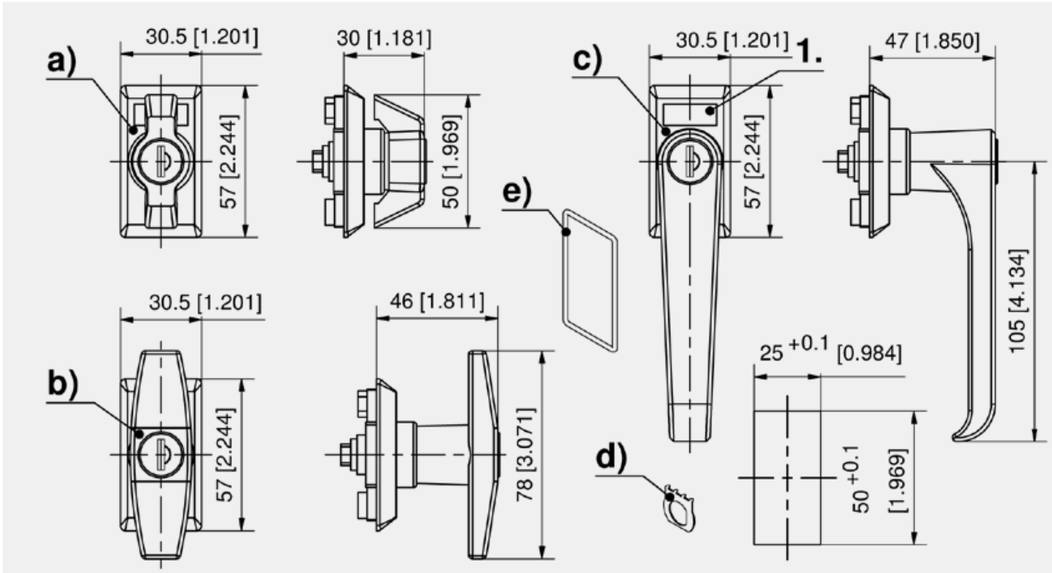
- T- and L-handles and wing knob for application with rod latch product system 3-100.
- All lockable handles are supplied with 2 keys.
- Screws are included.
- Handles without cylinder IP65 according to DIN EN 60529 by o-ring.
- Grounding by grounding clip.

Materials

- **Wing knob, T-handle and L-handle:** PA, black / zinc die, untreated
- **Grounding clip:** stainless steel AISI 301

Remarks

1. = Recess for lable



Handles for rod latch

	Part Number	Name	Latching type	IP protected
a)	208-9601.00-00000	Wing knob		Yes
a)	208-9602.00-00000	Wing knob	keyed alike DIRAK 1333	No
a)	508-9602.00-00000	Wing knob	keyed alike DS200	No
a)	208-9603.00-00000	Wing knob	keyed different	No
b)	208-9604.00-00000	T-handle		Yes
b)	208-9605.00-00000	T-handle	keyed alike DIRAK 1333	No
b)	508-9605.00-00000	T-handle	keyed alike DS200	No
b)	208-9606.00-000000	T-handle	keyed different	No
c)	208-9607.00-00000	L-handle		Yes
c)	208-9608.00-00000	L-handle	keyed alike DIRAK 1333	No
c)	508-9608.00-00000	L-handle	keyed alike DS200	No
c)	208-9609.00-00000	L-handle	keyed different	No

	Accessories
d)	368 3-011 **Grounding clip**
e)	208-1802.00-00000 **O-ring 39.45 x 1.78mm**

T- and L-Handle Stainless Steel

[7-035]

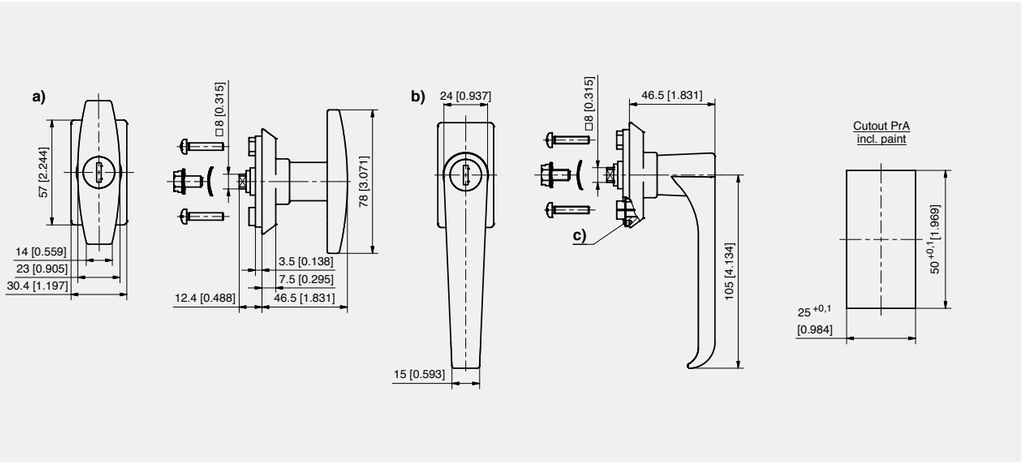


Advantages

- T- and L-handles for application with rod latch product system 7-030.
- For flat rods.
- For coutout A.
- IP65 according to DIN EN 60529 by o-ring.
- All lockable handles supplied with two keys.
- Screws and washers are included.
- Grounding by grounding clip.

Materials

- **Handles, escutcheon, screws and washer:** stainless steel AISI 316
- **Grounding clip:** stainless steel AISI 301
- **Cylinder barrel:** zinc die, chrome plated



T-handle

	Part Number	Latching type	Installation type
a)	208-9634.00-00000		screw-on
a)	208-9650.00-00000	keyed alike DIRAK 1333	screw-on
a)	208-9651.00-00000	keyed different	screw-on

L-handle

	Part Number	Latching type	Installation type
b)	208-9635.00-00000		screw-on
b)	208-9652.00-00000	keyed alike DIRAK 1333	screw-on
b)	208-9653.00-00000	keyed different	screw-on

	Accessories
	356 7-030 **Rod Latch FS PrA Stainless Steel**
	368 3-011 **Grounding clip**
c)	208-1802.00-00000 **O-ring 39.45 x 1.78mm**

T-Handle for Rod Latch FS PrA SOFTLINE

[3-112]

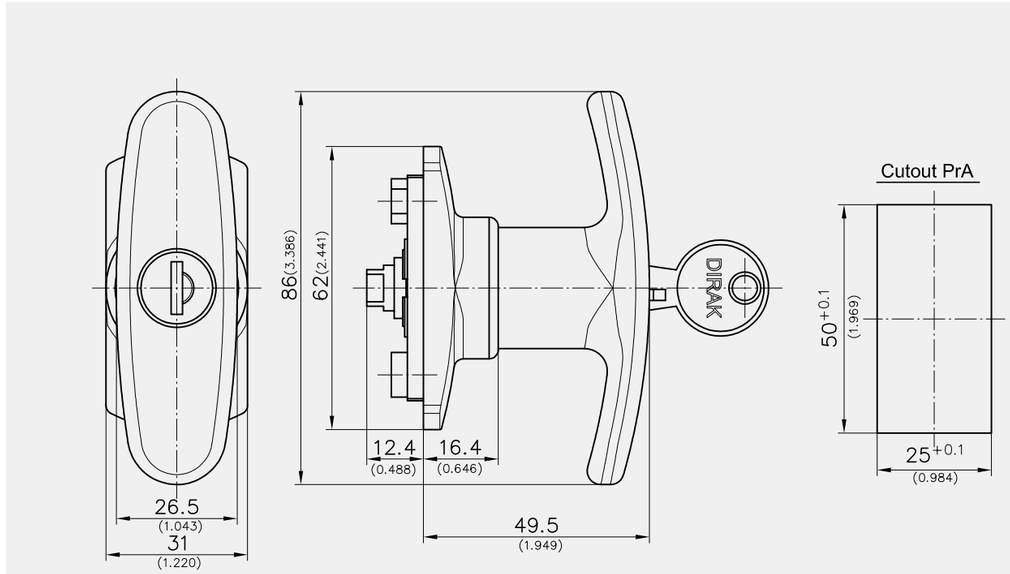


Advantages

- T-handles for application with rod latch system 3-100.
- For flat rods.
- For cutout A.
- IP65 according to DIN EN 60529 by o-ring.

Materials

- **T-handle:** zinc die, matt nickel plated



T-handle for rod latch

Part Number	Latching type
208-9648.00-00000	without lock
208-9654.00-00000	keyed alike DIRAK 1333
208-9655.00-00000	keyed different

Accessories
354 3-100 **Rod Latch RS/FS PrA**
368 3-011 **Grounding clip**
208-1802.00-00000 **O-ring 39.45 x 1.78mm**



Eject and Turn T-Handle FS/RS

See page 352

Multi-Point Systems

Swinghandle FS PrB

[3-070]



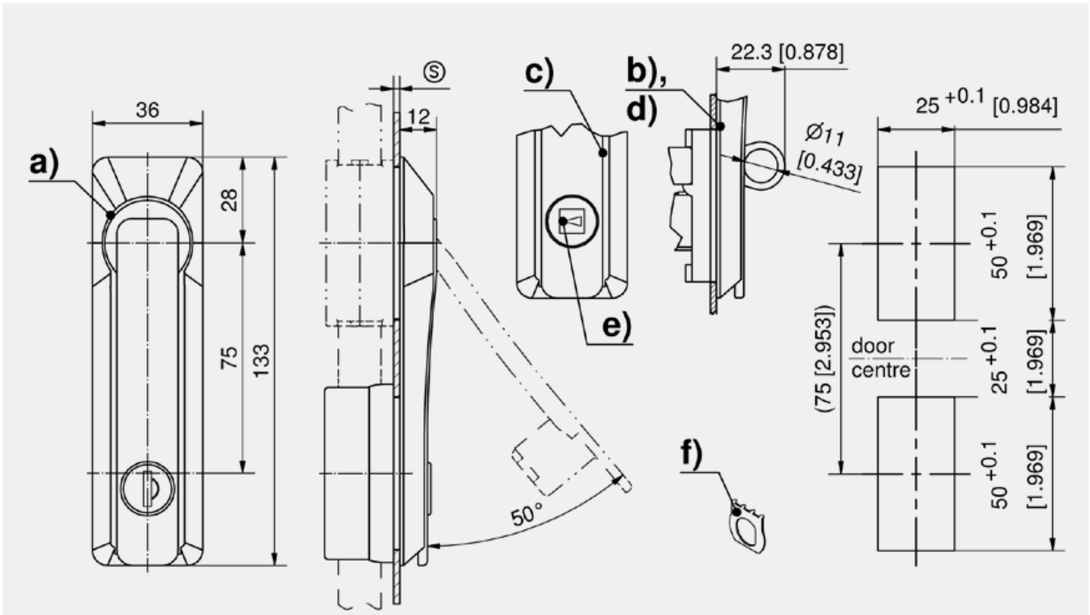
TRIMLINE, for cutout B, for flat rods, for cylinder, insert or padlock

Advantages

- Swinghandle TRIMLINE for Rod Latch and Flat Rods.
- RH or LH application.
- IP65 according to DIN EN 60529.
- Version for 3-point cam see product system 2-070.
- Inserts must be ordered separately, see c). Locking stub included in handle-assembly.
- Grounding by grounding clip.

Materials

- **Swinghandle:** zinc die, chrome plated or black
- **Dish:** zinc die, chrome plated or black or PA, black
- **Padlock eye:** stainless steel
- **Grounding clip:** stainless steel AISI 301



Swinghandle zinc die, with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Installation type
a)	407-9001.00-00000	keyed alike DIRAK 1333	black	black	screw-on
a)	507-9001.00-00000	keyed alike DS200	black	black	screw-on
a)	407-9002.00-00000	keyed different	black	black	screw-on
a)	407-9005.00-00000	keyed alike DIRAK 1333	chrome plated	chrome plated	screw-on
a)	507-9005.00-00000	keyed alike DS200	chrome plated	chrome plated	screw-on
a)	407-9006.00-00000	keyed different	chrome plated	chrome plated	screw-on
a)	407-9009.00-00000	keyed alike DIRAK 1333	chrome plated	black	screw-on
a)	507-9009.00-00000	keyed alike DS200	chrome plated	black	screw-on
a)	407-9010.00-00000	keyed different	chrome plated	black	screw-on
a)	407-9015.00-00000	keyed alike DIRAK 1333	black	chrome plated	screw-on
a)	507-9015.00-00000	keyed alike DS200	black	chrome plated	screw-on
a)	407-9016.00-00000	keyed different	black	chrome plated	screw-on

Swinghandle zinc die, dish PA, black, with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Installation type
a)	407-9021.00-00000	keyed alike DIRAK 1333	black	black	screw-on
a)	507-9021.00-00000	keyed alike DS200	black	black	screw-on
a)	407-9022.00-00000	keyed different	black	black	screw-on
a)	407-9025.00-00000	keyed alike DIRAK 1333	chrome plated	black	screw-on
a)	507-9025.00-00000	keyed alike DS200	chrome plated	black	screw-on
a)	407-9026.00-00000	keyed different	chrome plated	black	screw-on

Swinghandle zinc die, with cylinder barrel and padlock eye

	Part Number	Latching type	Surface handle	Surface dish	Installation type
b)	407-9033.00-00000	keyed alike DIRAK 1333	chrome plated	chrome plated	screw-on
b)	407-9034.00-00000	keyed different	chrome plated	chrome plated	screw-on
b)	407-9035.00-00000	keyed alike DIRAK 1333	black	black	screw-on
b)	407-9036.00-00000	keyed different	black	black	screw-on

Swinghandle zinc die for insert

	Part Number	Latching type	Surface handle	Surface dish	Installation type
c)	407-9101.00-00000	Insert	black	black	screw-on
c)	407-9103.00-00000	Insert	chrome plated	chrome plated	screw-on
c)	407-9105.00-00000	Insert	chrome plated	black	screw-on
c)	407-9107.00-00000	Insert	black	chrome plated	screw-on

Swinghandle zinc die for insert, with padlock eye

	Part Number	Latching type	Surface handle	Surface dish	Installation type
d)	407-9113.00-00000	Insert	chrome plated	chrome plated	screw-on
d)	407-9114.00-00000	Insert	black	black	screw-on
d)	407-9115.00-00000	Insert	black	chrome plated	screw-on
d)	407-9116.00-00000	Insert	chrome plated	black	screw-on

Swinghandle zinc die, dish PA for insert

	Part Number	Latching type	Surface handle	Surface dish	Installation type
c)	407-9117.00-00000	Insert	black	black	screw-on
c)	407-9119.00-00000	Insert	chrome plated	black	screw-on

Swinghandle zinc die, dish PA for insert, with padlock eye

	Part Number	Latching type	Surface handle	Surface dish	Installation type
d)	407-9123.00-00000	Insert	black	black	screw-on
d)	407-9124.00-00000	Insert	chrome plated	black	screw-on

Accessories

e) 299 2-141 **Inserts**
362 3-130 **Rod Latch FS PrC**
376 3-910 **Flat Rod Guide FS**
369 3-160 **Flat Rod FS with Rollers**
359 208-9021.00-00000 **Rod Latch**
359 208-9022.00-00000 **Rod Latch**
f) 368 3-011 **Grounding clip**

Assembly options

207-0016.00-00000 **Assembling of inserts / profile-cylinder**

Handles for Rod Latch FS PrC

[3-140]



Advantages

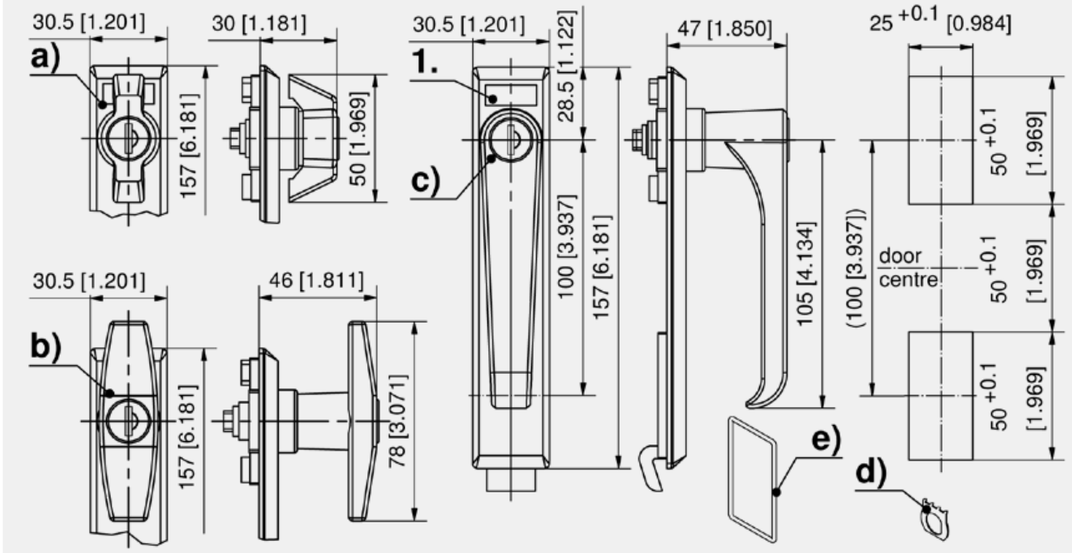
- T- and L-handles and wing knob for application with rod latch product system 3-130, 3-132.02, 3-165 or 3-170.
- All lockable handles are supplied with 2 keys.
- Screws are included.
- IP65 according to DIN EN 60529 by o-ring.
- Grounding by grounding clip.

Materials

- **Wing knob, T-handle and L-handle:** PA, black / zinc die, untreated
- **Grounding clip:** stainless steel AISI 301

Remarks

1. = Recess for lable



Handles for rod latch

	Part Number	Name	Latching type	IP protected
a)	208-9610.00-00000	Wing knob		Yes
a)	208-9611.00-00000	Wing knob	keyed alike DIRAK 1333	No
a)	508-9611.00-00000	Wing knob	keyed alike DS200	No
a)	208-9612.00-00000	Wing knob	keyed different	No
b)	208-9613.00-00000	T-handle		Yes
b)	208-9614.00-00000	T-handle	keyed alike DIRAK 1333	No
b)	508-9614.00-00000	T-handle	keyed alike DS200	No
b)	208-9615.00-00000	T-handle	keyed different	No
c)	208-9616.00-00000	L-handle		Yes
c)	208-9617.00-00000	L-handle	keyed alike DIRAK 1333	No
c)	508-9617.00-00000	L-handle	keyed alike DS200	No
c)	208-9618.00-00000	L-handle	keyed different	No

	Function extension
d)	368 3-011 **Grounding clip**
e)	208-1802.00-00000 **O-ring 39.45 x 1.78mm**

Swinghandle SOFTLINE FS PrC

[3-155.02]



Advantages

- The Swinghandle can be locked with 40mm long profile-cylinders (DIN 18252), cylinder or insert.
- For applications with rod latch see product system 3-130, 3-132.01, 3-165 or 3-170.
- Available with two different sliding dustcovers, enabling the locking with profile-cylinders having a protruding key-barrel part.
- IP65 according to DIN EN 60529 - version dish with cap.
- For non IP65 applications - version dish with hook.
- Grounding by grounding clip.

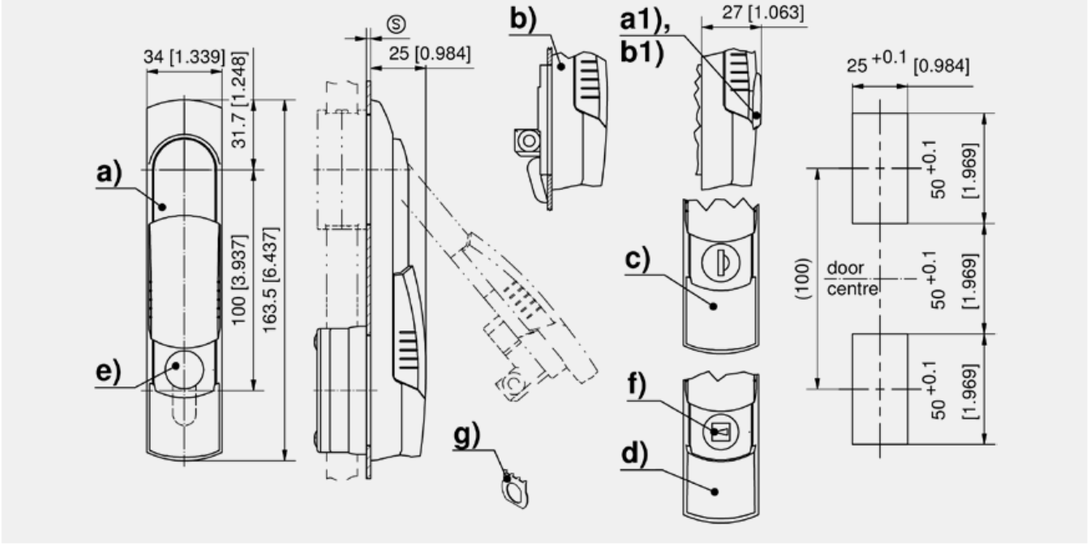
Materials

- **Swinghandle:** PA, black
- **Dish:** PA, black
- **Sliding cover:** PA, black

Remarks

Inserts must be ordered separately.

Locking stub is included in handle-assembly.



Swinghandle PA, black

	Part Number	Latching type	Dish	Sliding dustover	Installation type
a)	107-9001.00-00000	profile-cylinder 40mm	with cap (IP65)	for up to 2.5mm protruding key-barrel part	screw-on
a1)	107-9002.00-00000	profile-cylinder 40mm	with cap (IP65)	for up to 5mm protruding key-barrel part	screw-on
b)	107-9003.00-00000	profile-cylinder 40mm	with hook (not IP65)	for up to 2.5mm protruding key-barrel part	screw-on
b1)	107-9004.00-00000	profile-cylinder 40mm	with hook (not IP65)	for up to 5mm protruding key-barrel part	screw-on
c)	107-9010.00-00000	keyed alike DIRAK 1333	with cap (IP65)	for up to 2.5mm protruding key-barrel part	screw-on
c)	507-9208.00-00000	keyed alike DS200	with cap (IP65)	for up to 2.5mm protruding key-barrel part	screw-on
c)	107-9012.00-00000	keyed different	with cap (IP65)	for up to 2.5mm protruding key-barrel part	screw-on
c)	107-9013.00-00000	keyed alike DIRAK 1333	with hook (not IP65)	for up to 2.5mm protruding key-barrel part	screw-on
c)	507-9209.00-00000	keyed alike DS200	with hook (not IP65)	for up to 2.5mm protruding key-barrel part	screw-on
c)	107-9015.00-00000	keyed different	with hook (not IP65)	for up to 2.5mm protruding key-barrel part	screw-on
d)	107-9016.00-00000	Insert	with cap (IP65)	for up to 2.5mm protruding key-barrel part	screw-on
d)	107-9017.00-00000	Insert	with hook (not IP65)	for up to 2.5mm protruding key-barrel part	screw-on

	Accessories
e)	384 2-140 **Profile-Cylinder DIN 18252**
f)	299 2-141 **Inserts**
	362 3-130 **Rod Latch FS PrC**
	378 3-170 **Rod Latch for Multi-Point Locking FS PrC**

	Accessories
	376 3-910 **Flat Rod Guide FS**
	369 3-160 **Flat Rod FS with Rollers**
g)	368 3-011 **Grounding clip**
	207-0016.00-00000 **Assembling of inserts / profile-cylinder**

Swinghandle FS PrC for PHZ

[3-150]



Advantages

- Swinghandle for profile-cylinder according to DIN 18252.
- Lockable with 40mm / 45mm profile-cylinder with 45° locking cam.
- Variants with additional padlock eye.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Outside the sealed area - Version dish with hook.
- Version with cylinder cover is sealable.

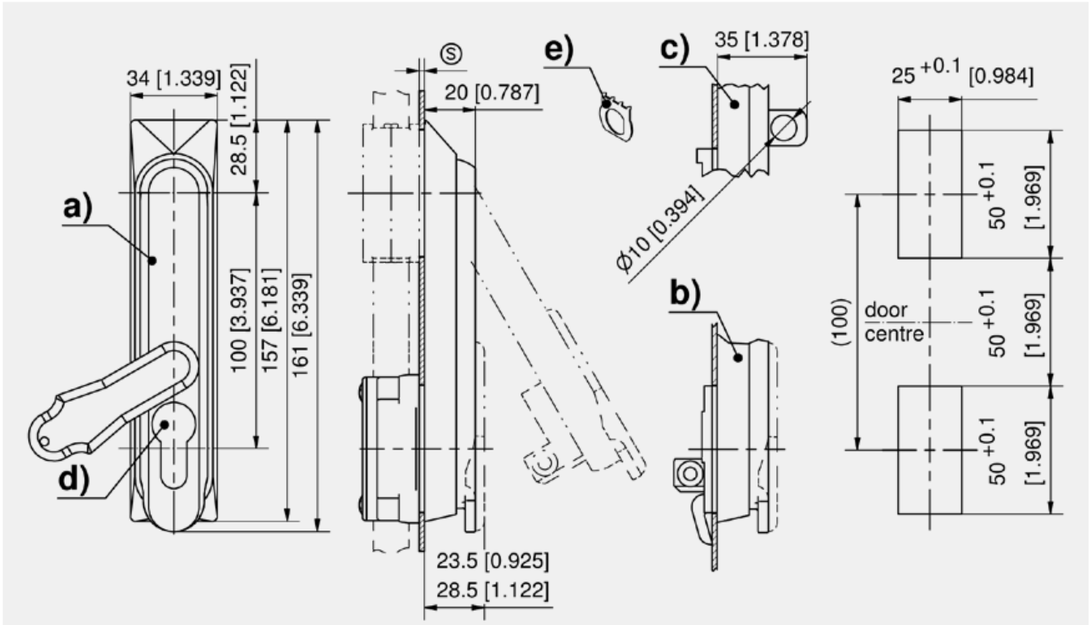
Materials

- **Swinghandle:** zinc die, black or PA, black
- **Dish:** zinc die, black or PA, black

Remarks

The swinghandles can be retro-fitted with sliding cap product system 2-091.

Grounding by grounding clip.



Swinghandle PA for profile-cylinder

	Part Number	Latching type	Surface handle	Surface dish	Dish	Material cylinder cover	Sealable	Installation type
a)	207-9201.00-00000	profile-cylinder 40mm	black	black	with cap (IP65)			screw-on
a)	207-9202.00-00000	profile-cylinder 40mm	black	black	with cap (IP65)	PA	Yes	screw-on
b)	207-9204.00-00000	profile-cylinder 40mm	black	black	with hook			screw-on
b)	207-9206.00-00000	profile-cylinder 40mm	black	black	with hook	PA	Yes	screw-on
a)	207-9203.00-00000	PHZ 45mm	black	black	with cap (IP65)	PA	Yes	screw-on
b)	207-9205.00-00000	PHZ 45mm	black	black	with hook			screw-on
b)	207-9207.00-00000	PHZ 45mm	black	black	with hook	PA	Yes	screw-on

Swinghandle zinc die, dish PA for profile-cylinder

	Part Number	Latching type	Surface handle	Surface dish	Dish	Material cylinder cover	Sealable	Installation type
a)	207-9297.00-00000	profile-cylinder 40mm	black	black	with cap (IP65)			screw-on
a)	207-9296.00-00000	profile-cylinder 40mm	black	black	with cap (IP65)	PA	Yes	screw-on
b)	107-9273.00-00000	profile-cylinder 40mm	black	black	with hook			screw-on
a)	207-9298.00-00000	PHZ 45mm	black	black	with cap (IP65)	PA	Yes	screw-on

Swinghandle PA for PHZ and padlock

	Part Number	Latching type	Padlock bolt	Surface handle	Surface dish	Dish	Installation type
c)	207-9208.00-00000	profile-cylinder 40mm	Yes	black	black	with cap (IP65)	screw-on
c)	207-9209.00-00000	profile-cylinder 40mm	Yes	black	black	with hook	screw-on

Swinghandle zinc die for profile-cylinder

	Part Number	Latching type	Surface handle	Surface dish	Dish	Material cylinder cover	Sealable	Installation type
a)	107-9209.00-00000	profile-cylinder 40mm	black	black	with cap (IP65)	zinc die	Yes	screw-on

Accessories

d)	384	2-140 **Profile-Cylinder DIN 18252**
	362	3-130 **Rod Latch FS PrC**
	378	3-170 **Rod Latch for Multi-Point Locking FS PrC**
	366	3-132.02 **Rod Latch RS PrC**
	373	3-165 **Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

e)	368	3-011 **Grounding clip**

Swinghandle FS PrC with Cylinder Barrel [3-150.01]



Advantages

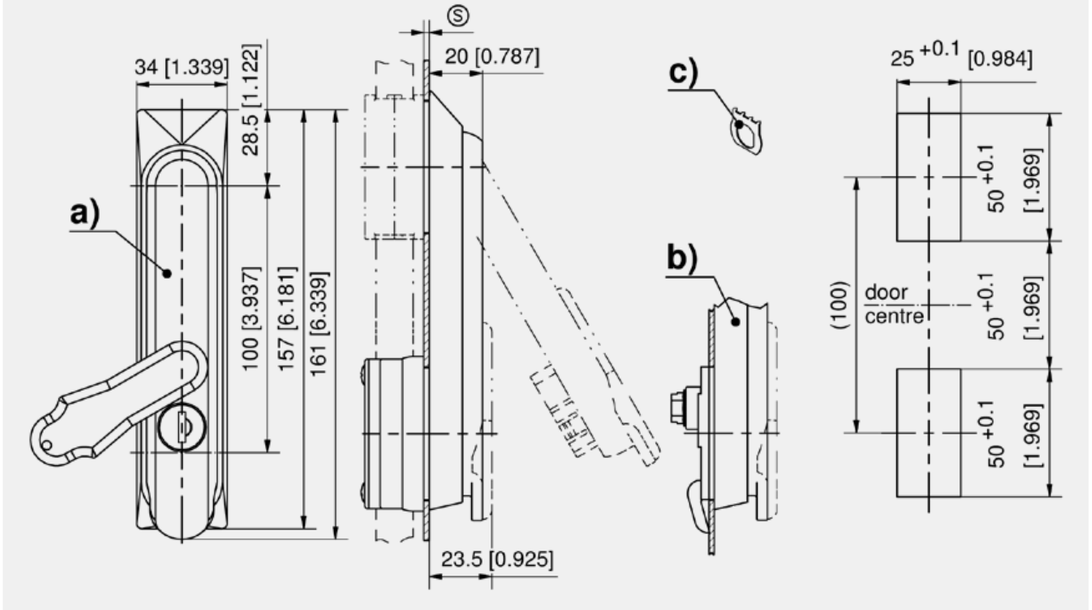
- Swinghandle with assembled cylinder barrel.
- Version keyed alike and keyed different.
- With stainless steel dust-shutter.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Outside the sealed area - version dish with hook.
- Version with cylinder cover is sealable.
- Grounding by grounding clip.

Materials

- **Swinghandle**: zinc die, chrome plated or black, or PA, black
- **Dish:** PA, black

Remarks

The swinghandles can be retrofitted with sliding cap product system 2-091.



Swinghandle PA with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Dish	Material cylinder cover	Sealable	Installation type
a)	207-9262.00-00000	keyed alike DIRAK 1333	black	black	with cap (IP65)			screw-on
a)	207-9263.00-00000	keyed alike DIRAK 1333	black	black	with cap (IP65)	PA	Yes	screw-on
b)	207-9266.00-00000	keyed alike DIRAK 1333	black	black	with hook			screw-on
b)	207-9267.00-00000	keyed alike DIRAK 1333	black	black	with hook	PA	Yes	screw-on
a)	507-9262.00-00000	keyed alike DS200	black	black	with cap (IP65)			screw-on
a)	507-9263.00-00000	keyed alike DS200	black	black	with cap (IP65)	PA	Yes	screw-on
b)	507-9266.00-00000	keyed alike DS200	black	black	with hook			screw-on
b)	507-9267.00-00000	keyed alike DS200	black	black	with hook	PA	Yes	screw-on
a)	207-9264.00-00000	keyed different	black	black	with cap (IP65)			screw-on
a)	207-9265.00-00000	keyed different	black	black	with cap (IP65)	PA	Yes	screw-on
b)	207-9268.00-00000	keyed different	black	black	with hook			screw-on
b)	207-9269.00-00000	keyed different	black	black	with hook	PA	Yes	screw-on

Swinghandle zinc die, dish PA with cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Dish	Installation type
a)	107-9231.00-00000	keyed alike DIRAK 1333	chrome plated	black	with cap (IP65)	screw-on
a)	107-9230.00-00000	keyed alike DIRAK 1333	black	black	with cap (IP65)	screw-on
b)	107-9235.00-00000	keyed alike DIRAK 1333	chrome plated	black	with hook	screw-on
b)	107-9234.00-00000	keyed alike DIRAK 1333	black	black	with hook	screw-on
a)	507-9231.00-00000	keyed alike DS200	chrome plated	black	with cap (IP65)	screw-on
a)	507-9230.00-00000	keyed alike DS200	black	black	with cap (IP65)	screw-on
b)	507-9235.00-00000	keyed alike DS200	chrome plated	black	with hook	screw-on
b)	507-9234.00-00000	keyed alike DS200	black	black	with hook	screw-on
a)	107-9239.00-00000	keyed different	chrome plated	black	with cap (IP65)	screw-on
a)	107-9238.00-00000	keyed different	black	black	with cap (IP65)	screw-on
b)	107-9243.00-00000	keyed different	chrome plated	black	with hook	screw-on
b)	107-9242.00-00000	keyed different	black	black	with hook	screw-on

Accessories

362 3-130 **Rod Latch FS PrC**
378 3-170 **Rod Latch for Multi-Point Locking FS PrC**
366 3-132.02 **Rod Latch RS PrC**
373 3-165 **Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

c) 368 3-011 **Grounding clip**

Swinghandle FS PrC with Combination Lock [3-150.02]



Advantages

- Swinghandle a) and b) with combination lock.
- Swinghandle c) with additional barrel cylinder, keyed alike / keyed different. Can be unlocked by comination lock or cylinder barrel.
- Modifying the comination only in opened state possible.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Outside the sealed area - version dish with hook.
- Grounding by grounding clip.

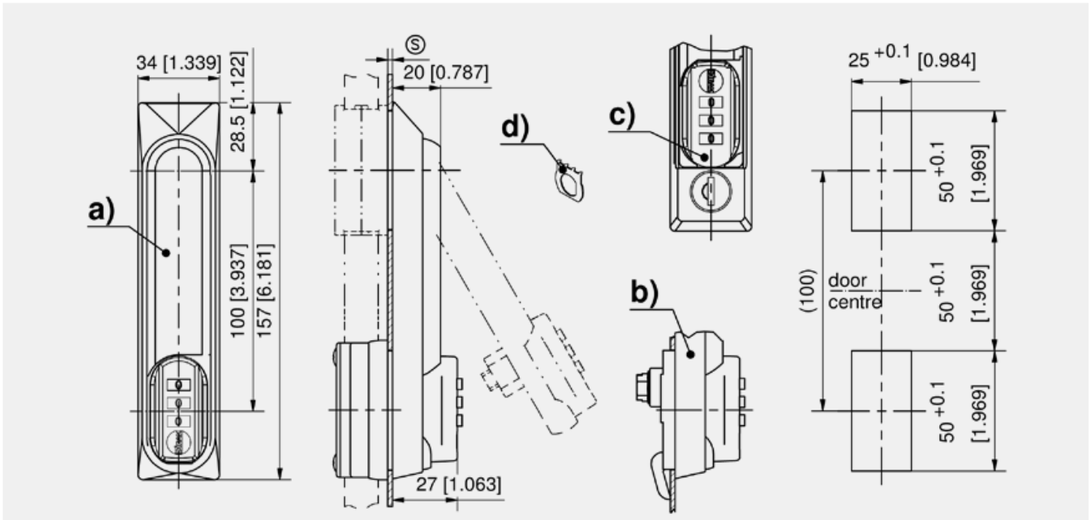
Materials

- **Swinghandle:** zinc die, chrome plated or black or PA, black
- **Dish:** PA, black

Remarks

c) Combination lock and keyed alike DIRAK 1333

c1) Combination lock and keyed alike (specify key number)



Swinghandle zinc die, dish PA with combination lock

	Part Number	Latching type	Surface handle	Surface dish	Dish	Installation type
a)	107-9264.00-00000	combination lock	chrome plated	black	with cap (IP65)	screw-on
a)	107-9266.00-00000	combination lock	black	black	with cap (IP65)	screw-on
b)	107-9265.00-00000	combination lock	chrome plated	black	with hook	screw-on
b)	107-9267.00-00000	combination lock	black	black	with hook	screw-on

Swinghandle PA with combination lock and cylinder barrel

	Part Number	Latching type	Surface handle	Surface dish	Dish	Installation type
c)	107-9274.00-00000	see remarks	black	black	with cap (IP65)	screw-on
c1)	107-9276.00-00000	see remarks	black	black	with cap (IP65)	screw-on

Accessories

362	3-130	**Rod Latch FS PrC**
378	3-170	**Rod Latch for Multi-Point Locking FS PrC**
366	3-132.02	**Rod Latch RS PrC**
373	3-165	**Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

d)	368	3-011	**Grounding clip**

Swinghandle FS PrC for Insert [3-150.03]

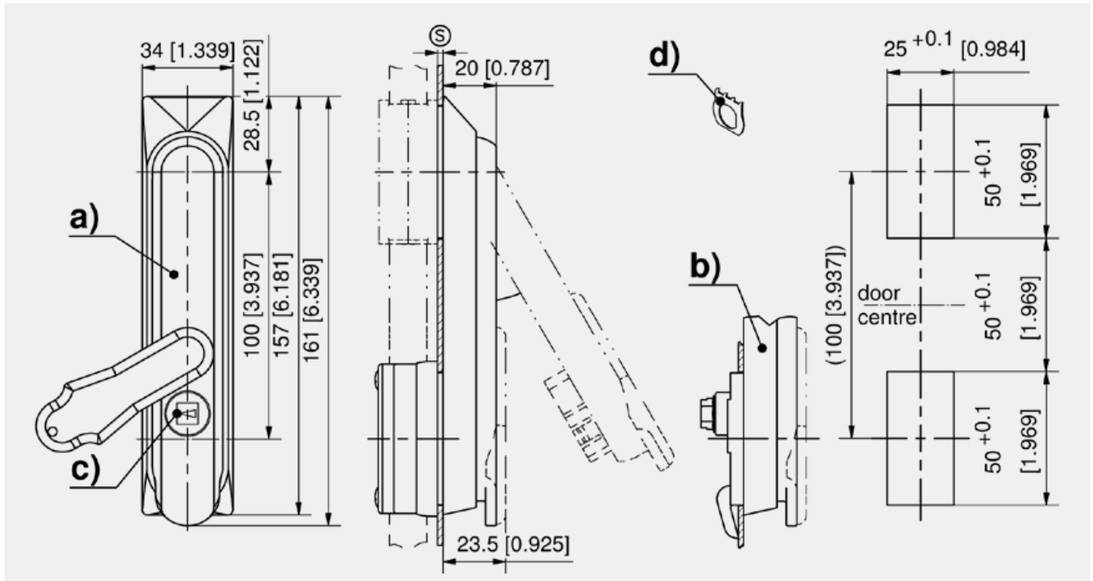


Advantages

- Swinghandle for insert.
- The locking cam is included.
- Inserts must be ordered separately.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Outside the sealed area - version dish with hook.
- Version with cylinder cover is **sealable**.
- The swinghandles can be retrofitted with sliding cap product system 2-091.
- Grounding by grounding clip.

Materials

- **Swinghandle:** zinc die chrome plated or black or PA, black
- **Dish:** PA, black



Swinghandle dish PA, black for insert

	Part Number	Dish	Material handle	Surface handle	Latching type	Material cylinder cover
a)	107-9247.00-00000	with cap (IP65)	zinc die	chrome plated	Insert	
a)	107-9246.00-00000	with cap (IP65)	zinc die	black	Insert	
b)	107-9251.00-00000	with hook	zinc die	chrome plated	Insert	
b)	107-9250.00-00000	with hook	zinc die	black	Insert	
a)	207-9270.00-00000	with cap (IP65)	PA	black	Insert	
a)	207-9271.00-00000	with cap (IP65)	PA	black	Insert	PA
b)	207-9272.00-00000	with hook	PA	black	Insert	
b)	207-9273.00-00000	with hook	PA	black	Insert	PA

Accessories

299	2-141	**Inserts**
362	3-130	**Rod Latch FS PrC**
378	3-170	**Rod Latch for Multi-Point Locking FS PrC**
366	3-132.02	**Rod Latch RS PrC**
373	3-165	**Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

d)	368	3-011	**Grounding clip**

Multi-Point Systems

Swinghandle FS PrC clip-in [3-150.04]

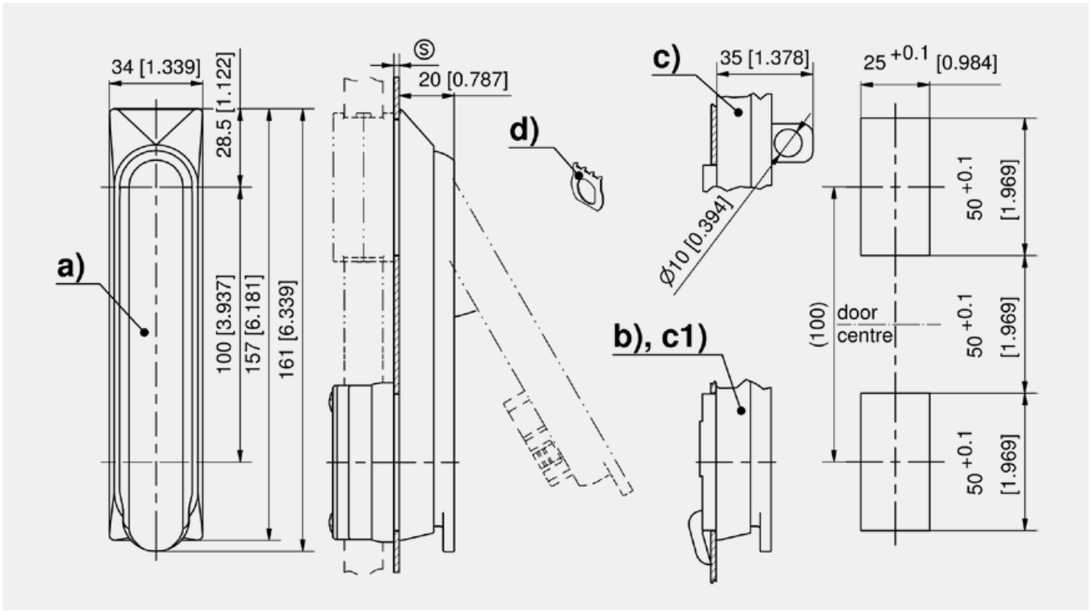


Advantages

- Swinghandel without lock **only** self-locking.
- Variants with additional padlock eye.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529 - version dish with cap.
- Outside the sealed area - version dish with hook.
- Grounding by grounding clip.

Materials

- **Swinghandle:** PA, black
- **Dish:** PA, black



Swinghandle PA, self-locking, handle closed

	Part Number	Latching type	Surface handle	Surface dish	Dish	Installation type
a)	107-9256.00-00000	self-locking	black	black	with cap (IP65)	screw-on
b)	107-9257.00-00000	self-locking	black	black	with hook	screw-on

Swinghandle PA, self-locking, handle closed, for padlock

	Part Number	Latching type	Surface handle	Surface dish	Dish	Padlock bolt	Installation type
c)	107-9258.00-00000	self-locking	black	black	with cap (IP65)	Yes	screw-on
c1)	107-9259.00-00000	self-locking	black	black	with hook	Yes	screw-on

Accessories

362 3-130 **Rod Latch FS PrC**
378 3-170 **Rod Latch for Multi-Point Locking FS PrC**
366 3-132.02 **Rod Latch RS PrC**
373 3-165 **Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

d) 368 3-011 **Grounding clip**

Swinghandle FS PrC for KABA-/ Assa-Cylinder [3-150.05]

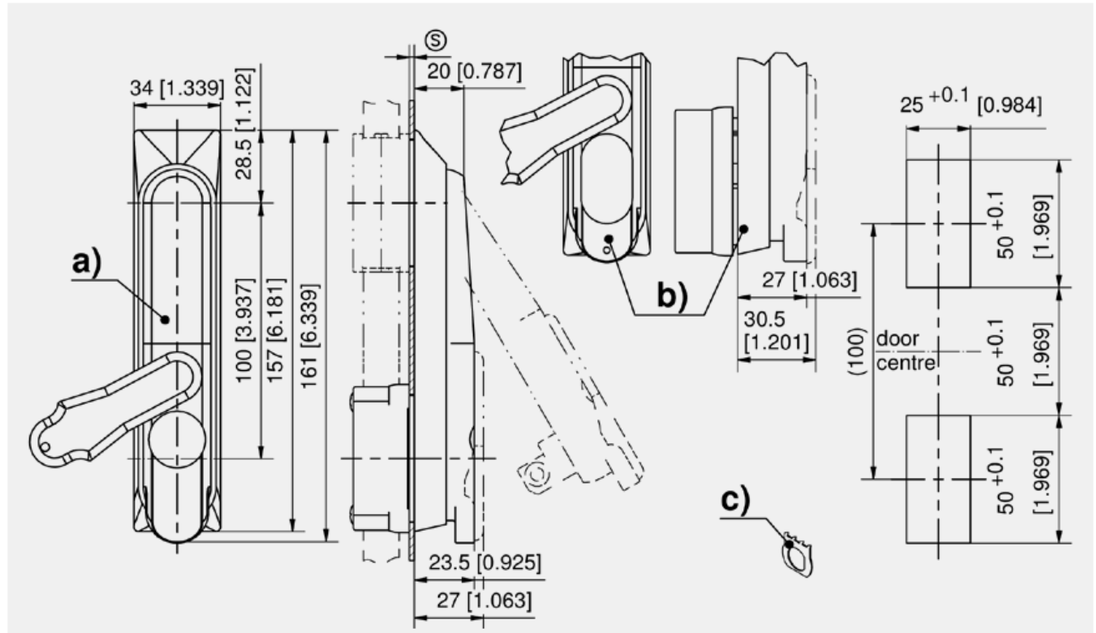


Advantages

- Swinghandle a) with Ø22mm for KABA 8-cylinder.
- Swinghandle b) with oblong hole 35x20mm for Assa-, Abloy-, TrioVing-cylinder. Suitable for 5- or 7-piston cylinder. Locking cam, adapter and fitting material is included for both versions.
- For rod latch see product system 3-130, 3-132.02, 3-165 or 3-170.
- RH / LH application.
- IP65 according to DIN EN 60529.
- Version with cylinder cover is sealable.
- Grounding by grounding clip.

Materials

- **Swinghandle:** PA, black
- **Dish:** PA, black



Swinghandle PA, black

	Part Number	Latching type	Dish	Material cylinder cover	Sealable	Installation type
a)	207-9214.00-00000	KABA-cylinder	with cap (IP65)			screw-on
a)	207-9215.00-00000	KABA-cylinder	with cap (IP65)	PA	Yes	screw-on
b)	207-9218.00-00000	Assa / Abloy / TrioVing	with cap (IP65)			screw-on
b)	207-9219.00-00000	Assa / Abloy / TrioVing	with cap (IP65)	PA	Yes	screw-on
b)	207-9220.00-00000	Assa / Abloy / TrioVing	with cap (IP65)	PA, reinforced	Yes	screw-on

Accessories

362 3-130 **Rod Latch FS PrC**
378 3-170 **Rod Latch for Multi-Point Locking FS PrC**
366 3-132.02 **Rod Latch RS PrC**
373 3-165 **Rod Latch FS PrC and Angle Pieces with Rollers**

Function extension

c) 368 3-011 **Grounding clip**

DST Swinghandle FS PrC

[3-150DST]



Advantages

- Swinghandle for profile-cylinder to DIN 18252.
- Tool-less installation.
- For application within the sealed area installation with internal caps and o-ring for IP65 EN 60529 (sealings are included).
- Hook the pre-assembled swing-handle into the lower cutout and snap into the upper cutout.
- The flat rods are placed into shown position and secured by the clip-on PA cover.
- The swinghandle is symmetric and can be applied both for RH and LH doors.

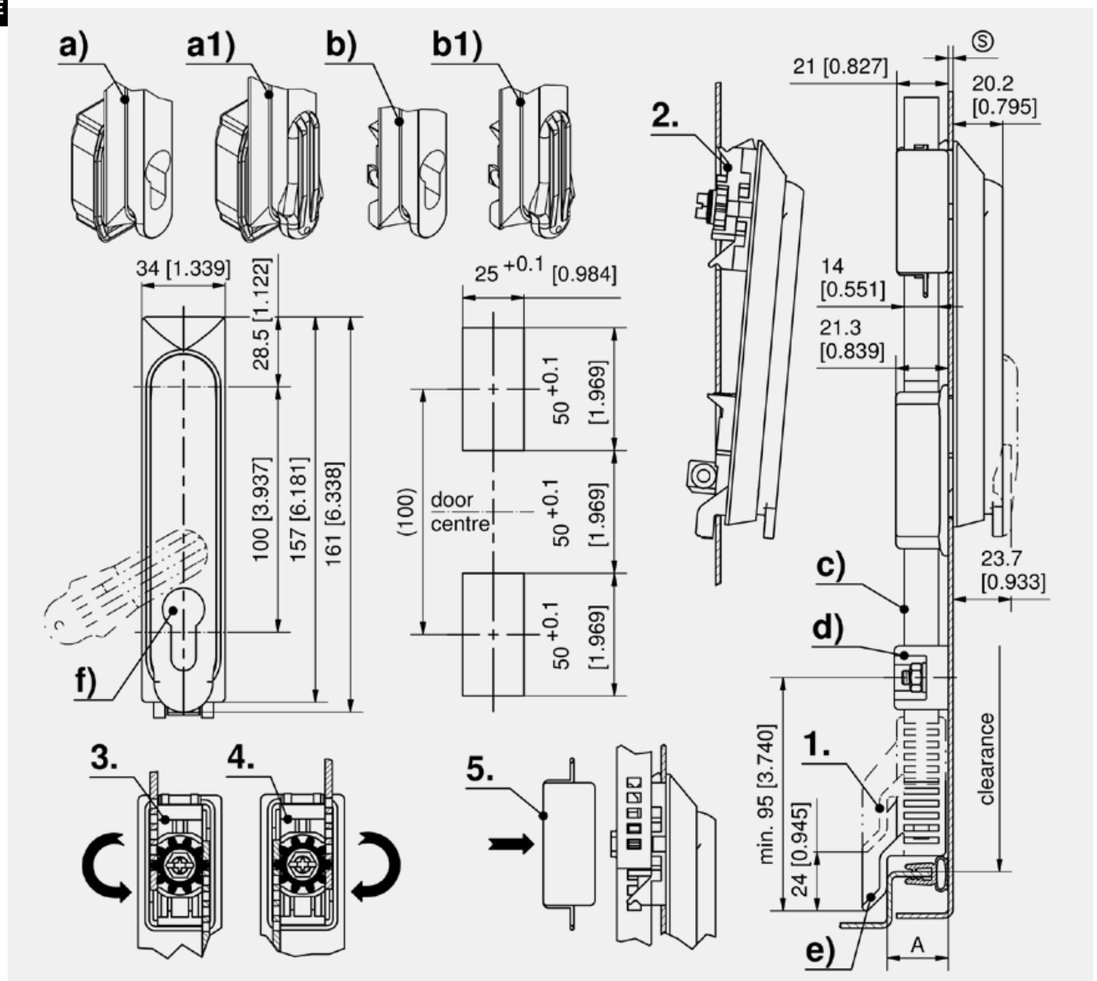
Materials

- **Swinghandle and dish:** PA, black
- **Snap wedges:** sintered steel
- **Pinion:** sintered steel
- **Flat rod:** steel, zinc plated

Remarks

Suitable flat rods for application within or outside of the sealed area see product system 3-171DST.

1. Stroke 24mm [0.945].
2. Hook-in the lower part and snap-in the swinghandle.
3. LH, clockwise opening door.
4. RH, counterclockwise opening door.
5. Clip cover.



Swinghandle / Dish with hook + cap (IP65)

	Part Number	Clamping range	Cylinder cover	Installation type
a)	407-9501.00-00015	1.3 - 2.0 mm		tool-less
a)	407-9501.00-00018	1.5 - 2.2 mm		tool-less
a)	407-9501.00-00020	1.8 - 2.5 mm		tool-less
a1)	407-9502.00-00015	1.3 - 2.0 mm	Yes	tool-less
a1)	407-9502.00-00018	1.5 - 2.2 mm	Yes	tool-less
a1)	407-9502.00-00020	1.8 - 2.5 mm	Yes	tool-less

Swinghandle / Dish with hook (not IP65)

	Part Number	Clamping range	Cylinder cover	Installation type
b1)	407-9503.00-00015	1.3 - 2.0 mm	Yes	tool-less
b1)	407-9503.00-00018	1.5 - 2.2 mm	Yes	tool-less
b1)	407-9503.00-00020	1.8 - 2.5 mm	Yes	tool-less
b)	407-9504.00-00015	1.3 - 2.0 mm		tool-less
b)	407-9504.00-00018	1.5 - 2.2 mm		tool-less
b)	407-9504.00-00020	1.8 - 2.5 mm		tool-less

		Accessories
f)	384	2-140 **Profile-Cylinder DIN 18252**
	328	3-150 **Swinghandle FS PrC for PHZ**
e)	372	3-162 **Ramp-Shoe for Flat Rod**
d)	376	3-910 **Flat Rod Guide FS**
d)	377	3-911 **Rod Guide FS**
c)	383	3-171DST **DST Flat Rods FS variable**

Swinghandle FS PrC Stainless Steel

[7-060]

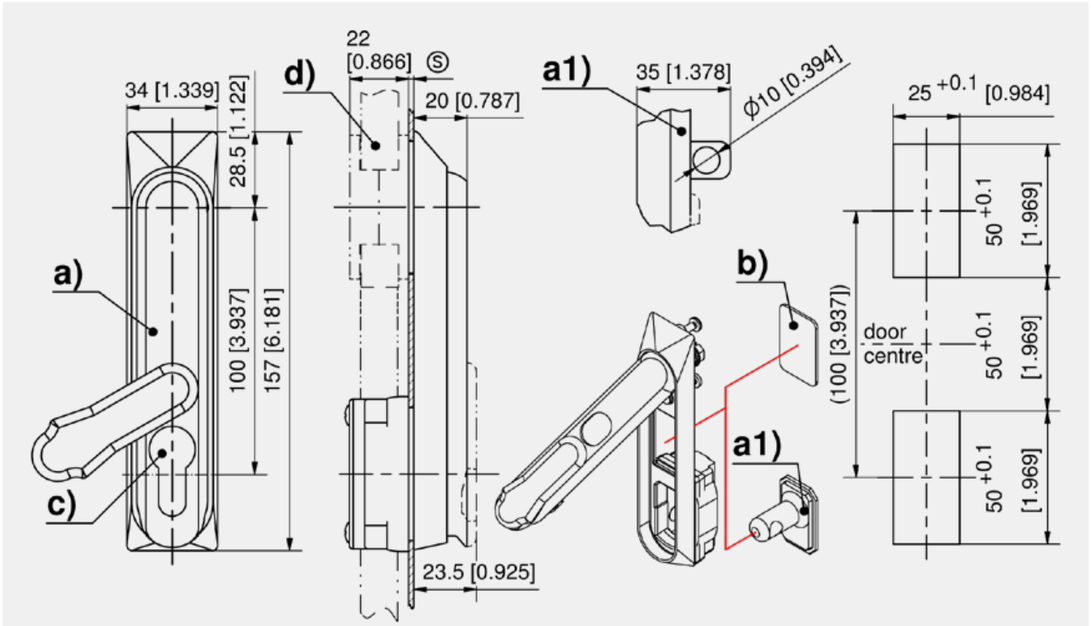


Advantages

- Swinghandle for profile cylinder to DIN 18252.
- Swinghandle for application with rod latch see product system 7-040 and cutout version PrC 50x25mm.
- IP65 DIN EN 60529 within the sealed area.
- The padlock device with rectangular base is fitted from the rear and so held captive between doorskin and swing-handle body.
- This opening can be filled with a rectangular blanking plate.

Materials

- **Swinghandle, dish, bearing part, dust cover, blanking plate:** stainless steel AISI 316
- **Cap:** PA, black
- **Swinghandle shaft and padlock bolt:** stainless steel AISI 303



Swinghandle for profile-cylinder

	Part Number	Version	Padlock	Installation type
a)	207-9292.00-00000	without cylinder dustcover		screw-on
a)	207-9293.00-00000	with cylinder dustcover		screw-on
a1)	107-9286.00-00000	with cylinder dustcover	Yes	screw-on
a1)	107-9287.00-00000	without cylinder dustcover	Yes	screw-on

Accessories

c)	384	2-140 **Profile-Cylinder DIN 18252**
c)	386	7-069 **Profile-Cylinder Stainless Steel**
d)	364	7-040 **Rod Latch FS PrC Stainless Steel**
b)		207-2506.80-00000 **Blanking plate for opening**

NT Swinghandle FS PrC Stainless Steel

[7-061]



Advantages

- Low profile swinghandle for profile-cylinder application with rod latch see product system 7-040.
- Protected against vandalism by extremly narrow gaps.
- The flush design prevents this swinghandle being used as climbing support.
- Locking cylinder fitted in the dish and protected against being forced through.
- Bolted internal cap is made of stainless steel.
- IP65 according to DIN EN 60529.
- RH / LH application.

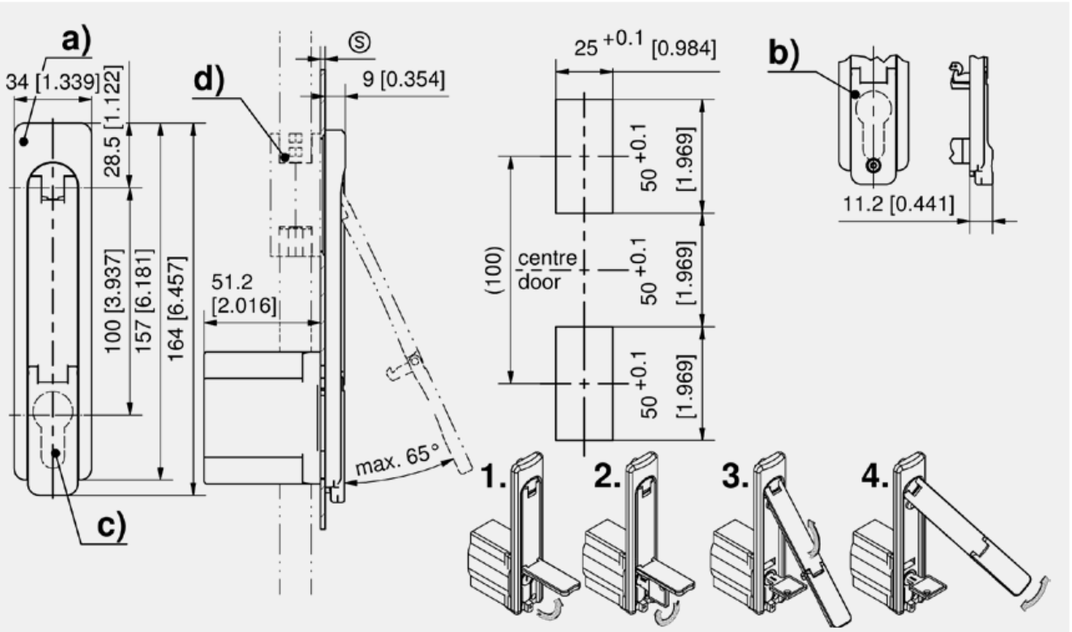
Materials

- **Dish, handle, cover, cap, rotating disk, spring, pins, locking bolt and screws:** stainless steel AISI 316L
- **Cap sealing:** NBR
- **O-ring:** NBR
- **Washer:** PTFE- Teflon

Remarks

Cover optional screw down.

1. Open cover
2. Turn key
3. The swinghandle springs open
4. Turn handle



Swinghandles

	Part Number	Cylinder cover	Version	Dish	Surface	Installation type
a)	307-9301.00-00000	Yes		with cap (IP65)	satin polished	screw-on
b)	307-9306.00-00000	Yes	cover screw down	with cap (IP65)	satin polished	screw-on

Accessories

d)	364	7-040 **Rod Latch FS PrC Stainless Steel**
c)	385	211-9004.00-00000 **DIRAK Profile-cylinder**
c)	385	211-9003.00-00000 **DIRAK Profile-cylinder**



NT Swinghandle FS PrC Stainless Steel

See page 339

Swinghandle FS OFFSET-DUO-3

[3-310]



Advantages

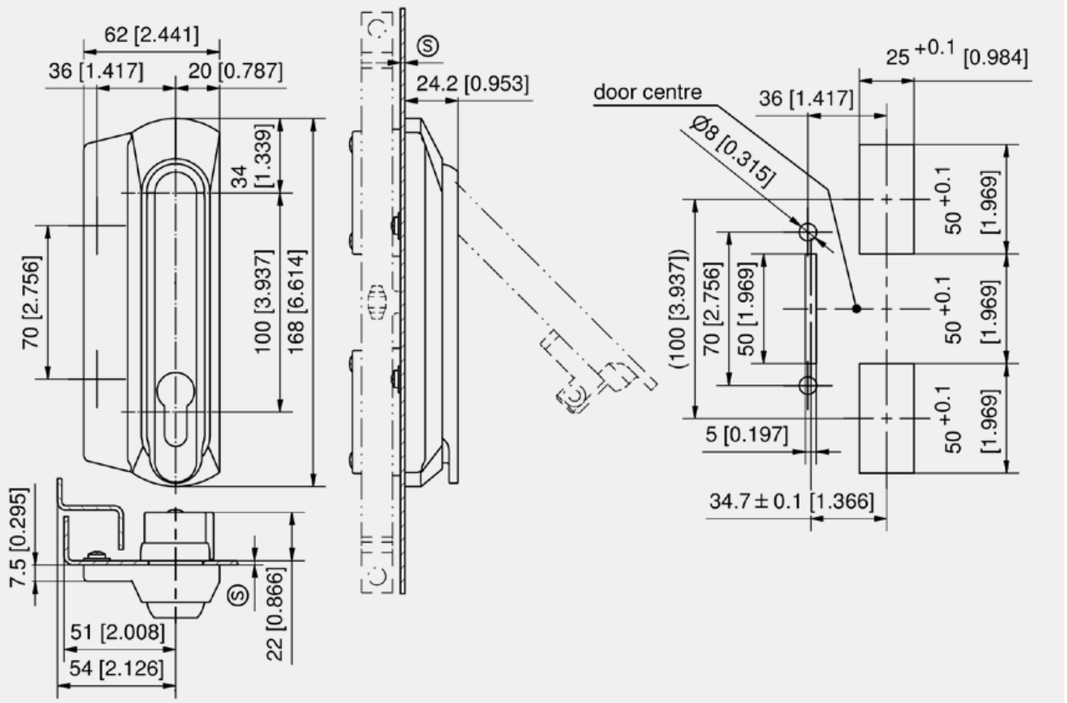
- Swinghandle system OFFSET-DUO-3 for extremely NARROW frame width can be used to control the rod latch product system 3-311.
- The swinghandle controls the rod-slider, which is situated on the outer door-skin.
- At the very door-flange, outside the sealing area, this slider controls the latching rod-system.
- This now allows frame-widths of only 30mm.
- The symmetrical rods allow two-, three- or multi-point latching (product system 3-311).
- IP65 according to DIN EN 60529.

Materials

- **Swinghandle and dish:** PA, black
- **Cap sealing:** NBR
- **Locking slider:** steel, zinc plated
- **Swinghandle pinion:** zinc die

IP 65

RoHS WEEE



Swinghandle locking system

Part Number	Version	Installation outside the seal	Installation type
307-9003.00-00000	RH	Yes	screw-on
307-9004.00-00000	LH	Yes	screw-on

Accessories

342 3-311 **Rods and Accessories FS OFFSET-DUO-3**

Rods and Accessories FS OFFSET-DUO-3 [3-311]



Advantages

- Latching rods and accessoires for application with swing-handles OFFSET-DUO-3, product system 3-310.
- We show a typical 3-point system for a RH door. All rods run exactly in line and the lower rod is starting from the doorcenter, exactly symmetrical to the (not shown) upper rod.
- As the fitting positions of the latching hooks are identical to those of the hinges, the door can be installed RH or LH.
- Dependig on the installed rod guides and hinges, a minimal frame width of 30mm is possible.

Materials

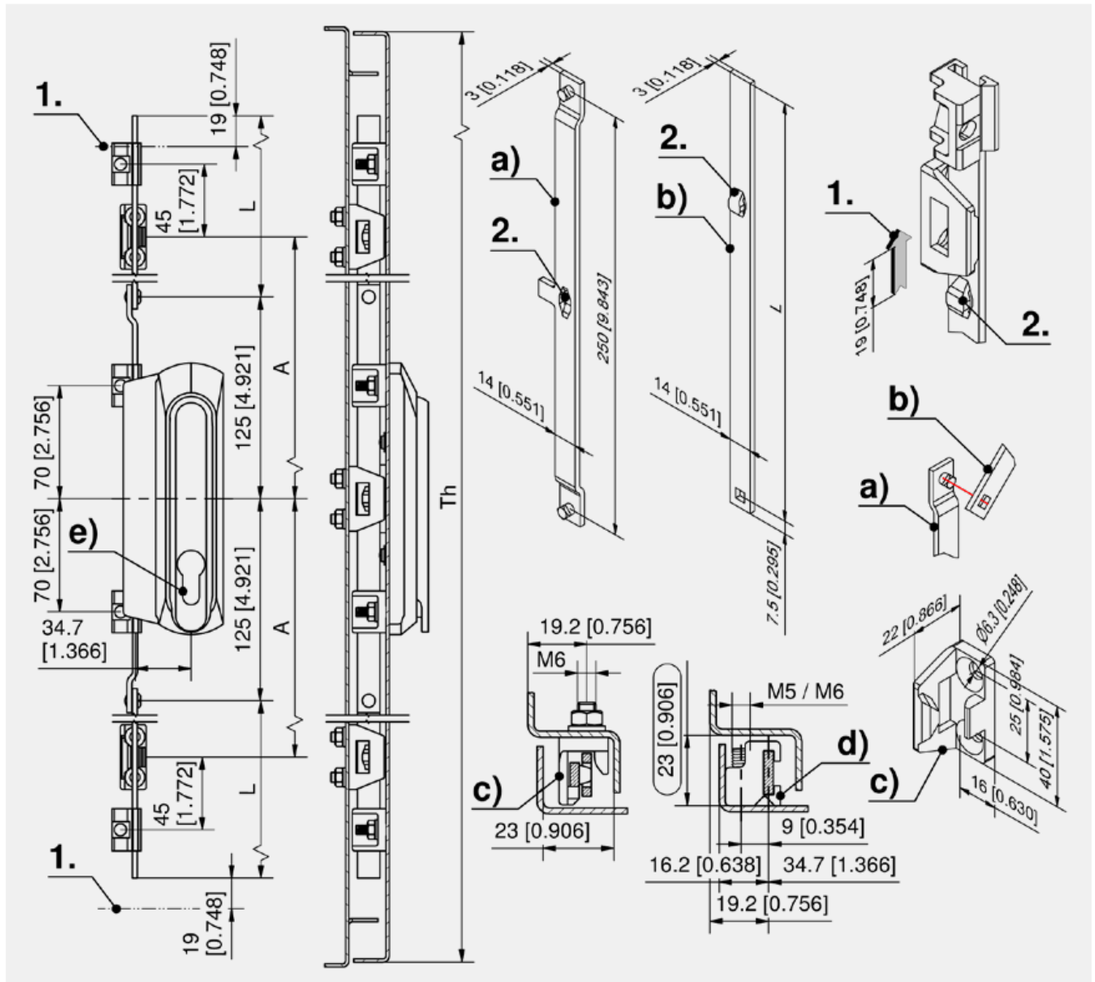
- **Rods:** steel, zinc plated
- **Latching hook:** zinc die

Remarks

Central controlling rod - per latching system order 1 off

Extension rods - per latching system order 2 off

Latching hooks have to be ordereres separately - quantity please see table



Flat Rods

	Part Number	Type	Door height Th	Distance hook A	Quantity latching hooks	L	Quick-fit	Rod dimension WxH	Rod type
a)	307-9001.00-00000	Central controlling rod					Yes	14 x 3 mm	Flat Rod
b)	208-0942.00-00000	Rod	1900 - 2200 mm	850 mm	2	250 mm	Yes	14 x 3 mm	Flat Rod
b)	208-0943.00-00000	Rod	1600 - 1900 mm	700 mm	2/3	450 mm	Yes	14 x 3 mm	Flat Rod
b)	208-0944.00-00000	Rod	1200 - 1600 mm	500 mm	3	650 mm	Yes	14 x 3 mm	Flat Rod
b)	208-0945.00-00000	Rod	800 - 1200 mm	300 mm	3	800 mm	Yes	14 x 3 mm	Flat Rod

Latching hook

	Part Number	Name
c)	208-1424.00-00000	Latching hook

Accessories		
e)	384	2-140 **Profile-Cylinder DIN 18252**
d)	376	208-1509.03-00000 **Rod guide for weld-stud**
d)	376	208-1517.03-00000 **Rod guide for weld-stud**

Swinghandle for Compression Rod Latch

[3-203]

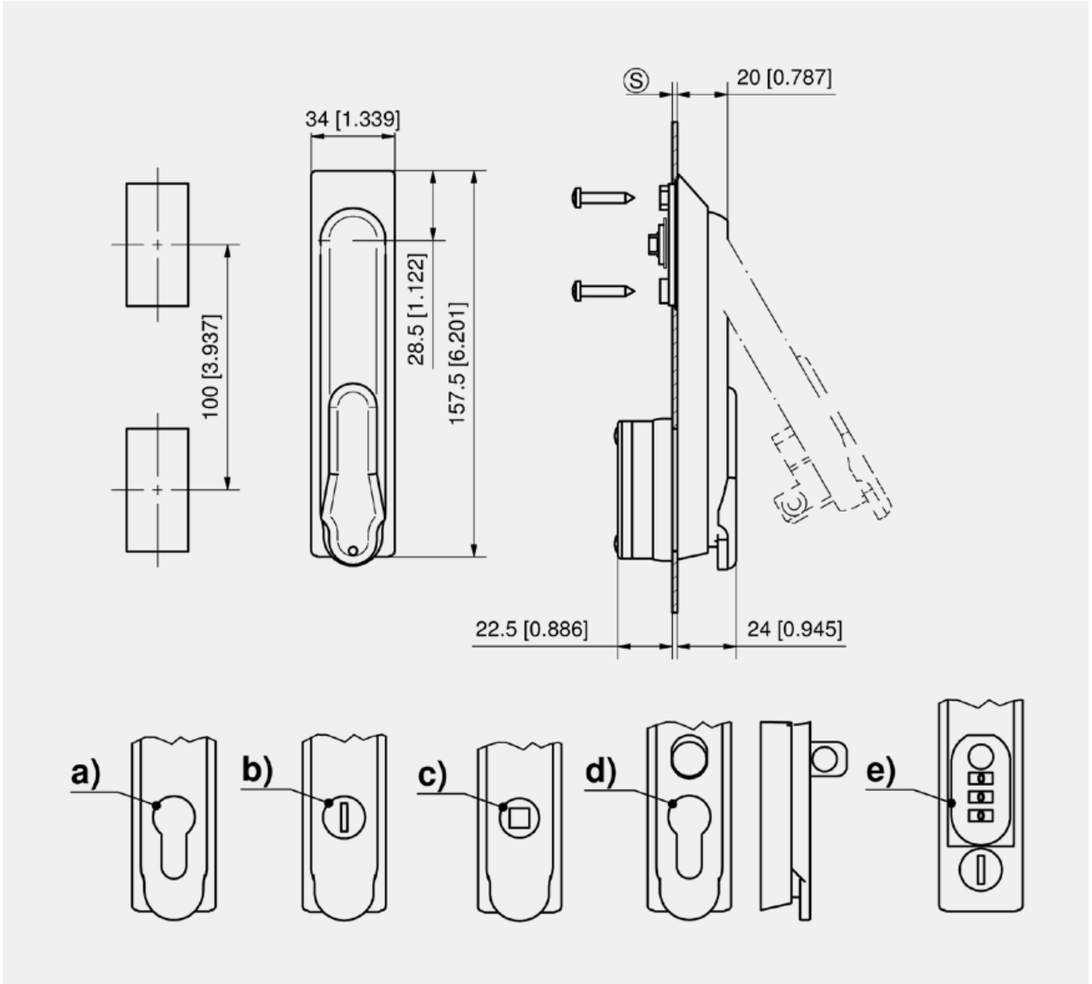


Advantages

- Swinghandle for product system 3-200.
- Swinghandle for profile-cylinder to DIN 18252, with cylinder, for insert, with pad-lock bolt or combination lock.
- Inserts must be ordered separately. Locking stub is included in handle assembly.
- Cutout 50x25mm version PrC.
- IP65 according to DIN EN 60529.
- RH / LH application.
- The swinghandles listed under a), b), and c) can be retrofitted with a sliding cap see product system 2-090.01.

Materials

- **Swinghandle, dish and cylinder dustcover:** zinc die, black or PA, black
- **Shaft:** brass, untreated
- **Cap:** PA, black
- **O-Ring and cap sealing:** NBR



Swinghandle for profile cylinder

	Part Number	Material handle	Surface handle	Material dish	Surface dish	Dish	Cylinder cover	Sealable	Installation type
a)	207-9201.00-10000	PA	black	PA	black	with cap (IP65)			screw-on
a)	207-9202.00-10000	PA	black	PA	black	with cap (IP65)	Yes	Yes	screw-on
a)	107-9209.00-10000	zinc die	black	zinc die	black	with cap (IP65)	Yes	Yes	screw-on

Swinghandle with cylinder barrel

	Part Number	Latching type	Material handle	Surface handle	Material dish	Surface dish	Dish	Installation type
b)	207-9262.00-10000	keyed alike DIRAK 1333	PA	black	PA	black	with cap (IP65)	screw-on

Swinghandle for insert

	Part Number	Material handle	Surface handle	Material dish	Surface dish	Dish	Installation type
c)	207-9271.00-10000	PA	black	PA	black	with cap (IP65)	screw-on

Swinghandle for profile cylinder and padlock

	Part Number	Material handle	Surface handle	Material dish	Surface dish	Dish	Padlock bolt	Installation type
d)	207-9208.00-10000	zinc die	black	PA	black	with cap (IP65)	Yes	screw-on

Swinghandle with combination lock and cylinder barrel

	Part Number	Latching type	Material handle	Surface handle	Material dish	Surface dish	Dish	Installation type
e)	107-9274.00-10000	keyed alike DIRAK 1333	PA	black	PA	black	with cap (IP65)	screw-on

Accessories

384 2-140 **Profile-Cylinder DIN 18252**
299 2-141 **Inserts**

Specific accessories

346 3-211 **Compression Rod Latch RS / FS**
351 3-221 **Rods for Compression Rod Latch**

Assembly options

207-0016.00-00000 **Assembling of inserts / profile-cylinder**

Compression Rod Latch RS / FS

[3-211]



Advantages

- Rod latch for installation within the sealed area, with compression 4mm.
- Single or multi-point latching by using of additional latching devices.
- The connecting rods between the latching devices can be fixed easily in clamps.
- Vibration-proof according to DIN EN 61373.
- For round rods Ø8mm or flat rods 3 x 14 mm.
- Oblong hole allows tolerance compensation.
- RH and LH version.
- Grounding by grounding clip.

Materials

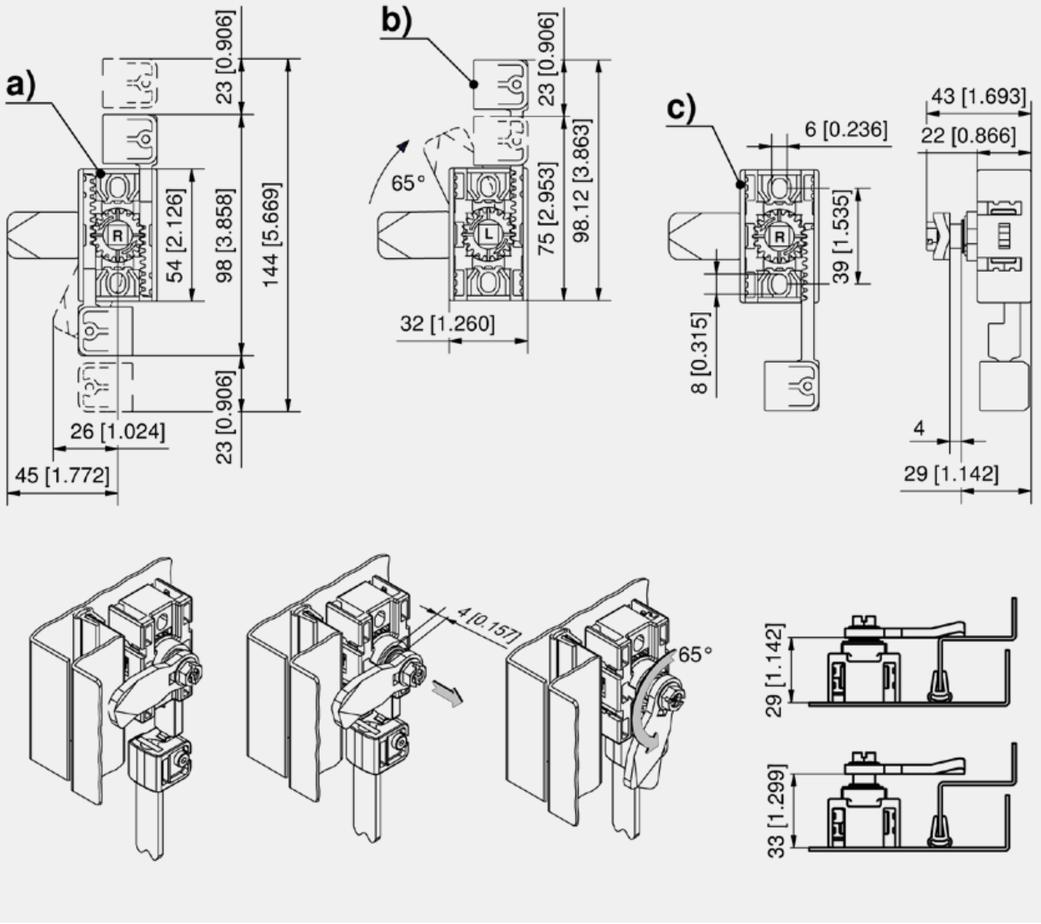
- **Housing, rods, clamps, pinion:** zinc die

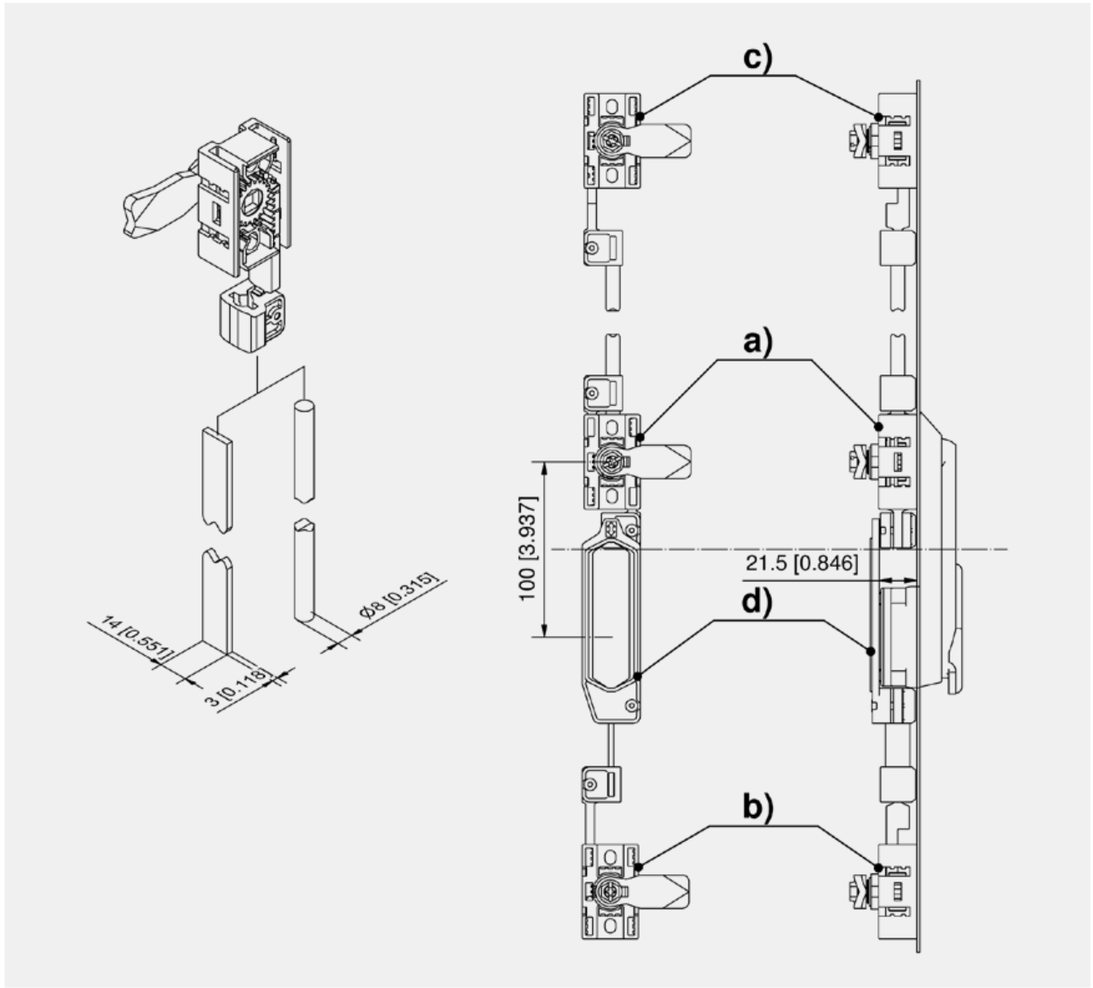
Remarks

Closing process:

1. A 90° turn of the swinghandle brings the cam into the locked position

2. With another 45° turn the cam is pressed by 4 mm against the clamping surface.





Rod latch with compression, 2 rods

	Part Number	Version	Stroke	Installation type
a)	208-9076.00-00000	LH	23 mm	screw-on
a)	208-9077.00-00000	RH	23 mm	screw-on

Rod latch with compression, 1 rod

	Part Number	Version	Stroke	Installation type
b)	208-9078.00-00000	LH	23 mm	screw-on
c)	208-9079.00-00000	RH	23 mm	screw-on

	Accessories
d)	350 3-220 **Rod Latch Adapter for Compression Rod Latch**
	348 3-215 **Re-Direction**
	351 3-221 **Rods for Compression Rod Latch**
	164 1-102.01 **Cams L35/45 without Ramp and Stop**
	368 3-011 **Grounding clip**
	344 3-203 **Swinghandle for Compression Rod Latch**

Re-Direction

[3-215]



Advantages

- 90° re-direction for multi-point locking system.
- Compression 4mm.
- Multi-point latching by using of additional latching devices.
- The connecting rods between the latching devices can be fixed easily in clamps.
- Vibration-proof according to DIN EN 61373.
- For round rods Ø8mm or flat rods 3 x 14mm.
- Oblong hole allows tolerance compensation.
- RH and LH version.
- Grounding by grounding clip.

Materials

- **Housing, rods, clamps, pinion:** zinc die

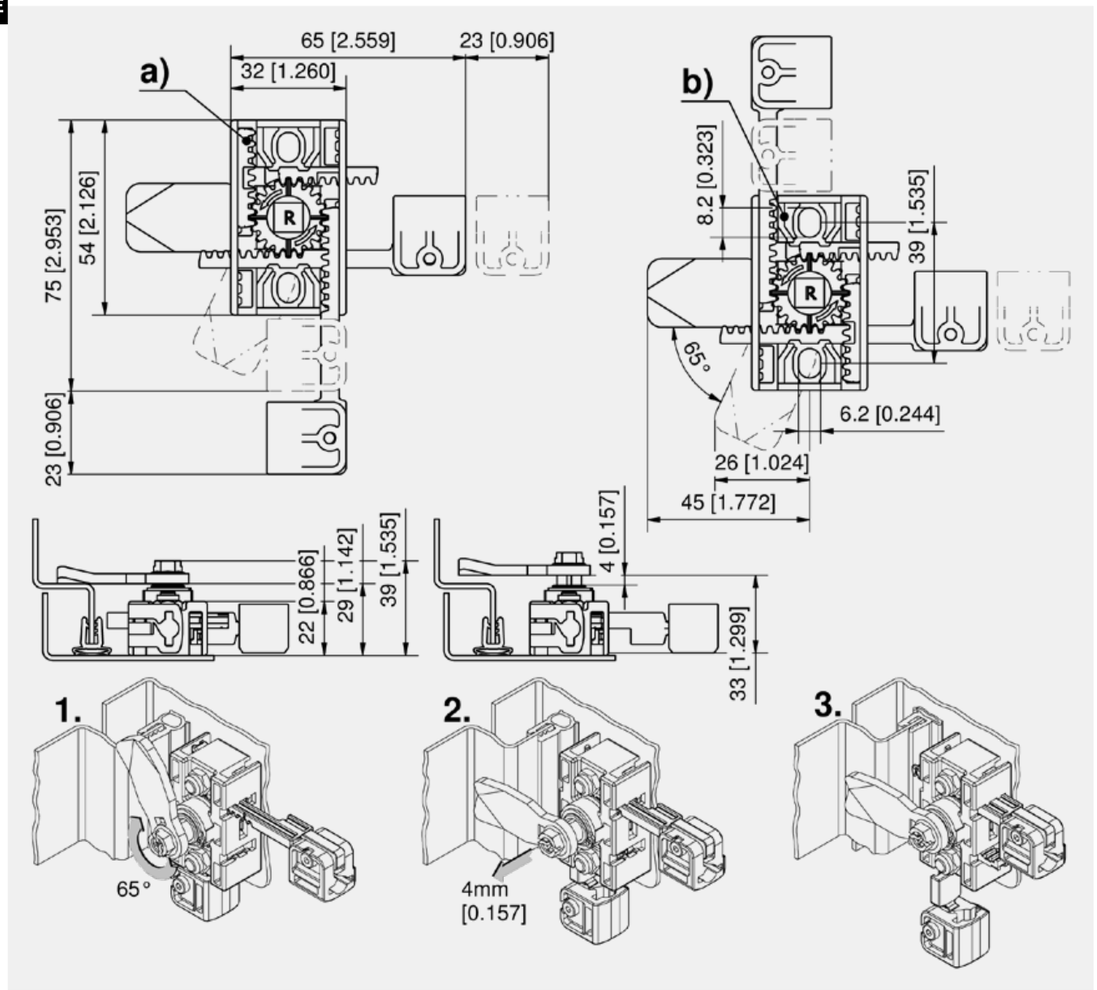
Remarks

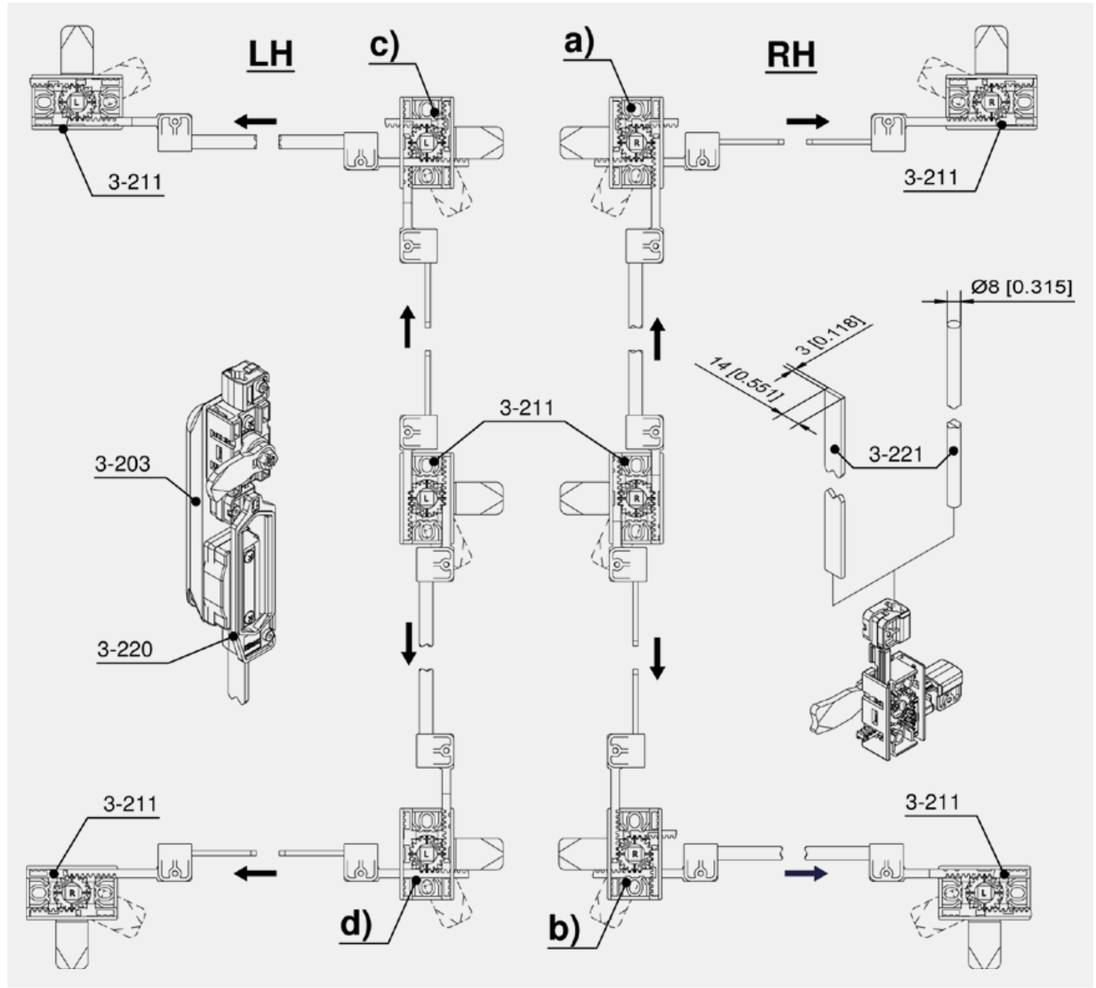
Closing process:

1. A 90° turn of the Swinghandle brings the cam into the locked position.

2. With another 45° turn the cam is pressed by 4mm against the clamping surface.

3. Locked.





Re-Direction

	Part Number	Version	Stroke	Installation type
a)	208-9091.00-00000	for doors RH, top	23 mm	screw-on
b)	208-9083.00-00000	for doors RH, bottom	23 mm	screw-on
c)	208-9090.00-00000	for doors LH, top	23 mm	screw-on
d)	208-9082.00-00000	for doors LH, bottom	23 mm	screw-on

Accessories	
350	3-220 **Rod Latch Adapter for Compression Rod Latch**
346	3-211 **Compression Rod Latch RS / FS**
351	3-221 **Rods for Compression Rod Latch**
164	1-102.01 **Cams L35/45 without Ramp and Stop**
368	3-011 **Grounding clip**
344	3-203 **Swinghandle for Compression Rod Latch**

Rod Latch Adapter for Compression Rod Latch [3-220]

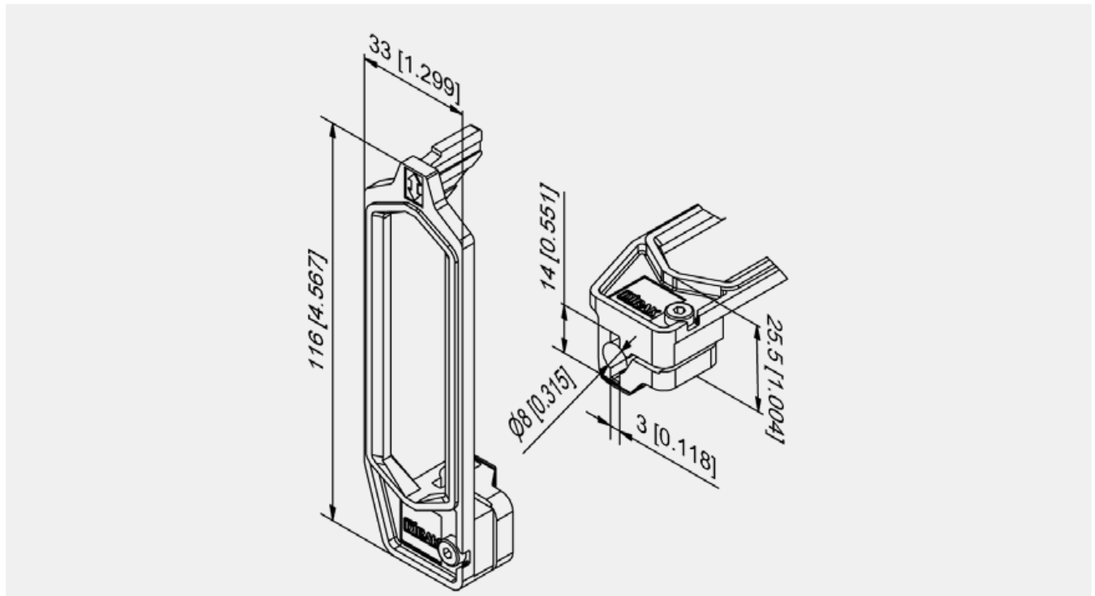


Advantages

- Rod latch adapter suitable for Compression Rod Latch see product system 3-211.

Materials

- **Rod latch adapter:** zinc die, untreated
- **Screw:** steel, zinc plated



Accessories for rod latch with compression

Part Number	Version	Installation type
308-9005.00-00000	RS / FS	screw-on

Rods for Compression Rod Latch [3-221]

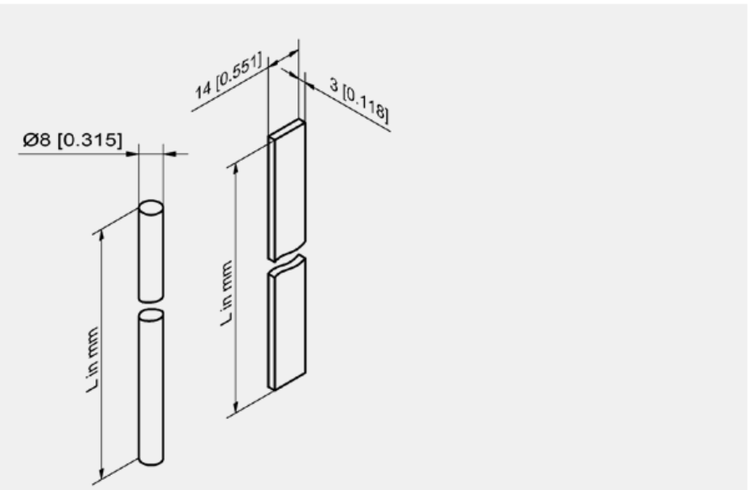


Advantages

- Round and flat rods suitable for rod latch with compression see product system 3-211.

Materials

- **Round and flat rods:** steel, zinc plated



Rods for Compression Rod Latch

Part Number	Name	Length	Rod dimension WxH	Rod diameter Ø
108-0916.15-00300	Flat Rod	300 mm	14 x 3 mm	
108-0916.15-00400	Flat Rod	400 mm	14 x 3 mm	
108-0916.15-00500	Flat Rod	500 mm	14 x 3 mm	
108-0916.15-00600	Flat Rod	600 mm	14 x 3 mm	
108-0916.15-00700	Flat Rod	700 mm	14 x 3 mm	
201-0212.00-00293	Round rod	293 mm		8 mm
201-0212.00-00493	Round rod	493 mm		8 mm
201-0212.00-00593	Round rod	593 mm		8 mm
201-0212.00-00693	Round rod	693 mm		8 mm

Eject and Turn T-Handle FS/RS

[3-145]

RC2

IP 65

RoHS WEEE



Advantages

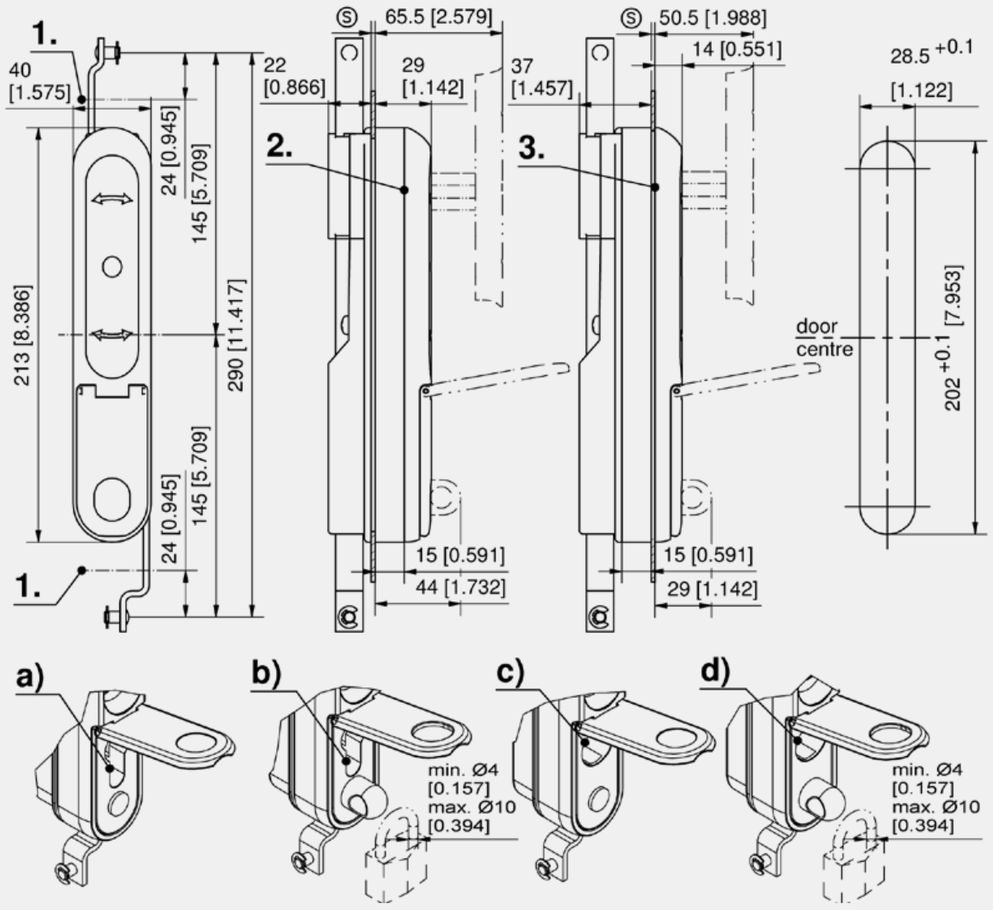
- For flat- or round rods.
- T-handle with 90° swiveling and 135° rotatable T-handle element.
- Complies with security test to RCII DIN 1630.
- IP65 according to DIN EN 60529.
- Very narrow gap dimension.
- The flat design prevents the handle from being used as a climbing aid.
- The locking cylinder can not be forced inwards by axial forces.
- The T-handle can not be folded down if not in line with the housing.
- Separate locking device sub-unit. Suitable for: Euro cylinder, KABA cylinder, insert and/or padlock.
- Application inside or outside the sealed area.
- RH/LH application.
- Consention water drainage.

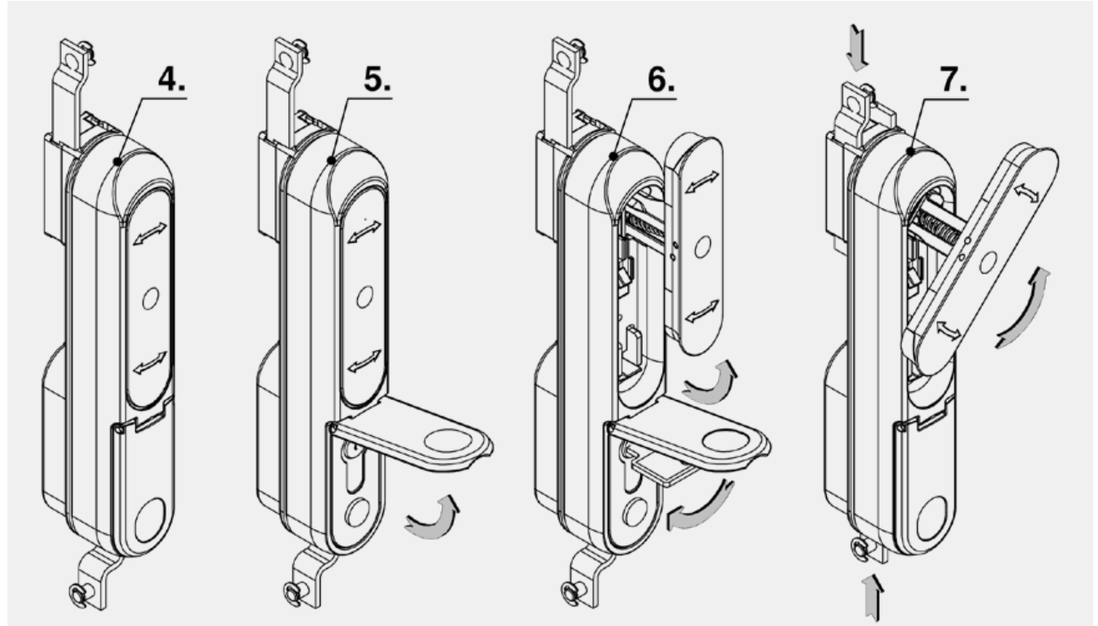
Materials

- **Dish, T-handle:** zinc die, black
- **Flat rod and rod stub:** steel, zinc plated
- **Padlock bolt:** stainless steel AISI 304
- **O-ring:** NBR, black

Remarks

1. Stroke 24mm [0.945]
2. Position of the spacer if used outside the sealed area
3. Position of the spacer if used inside the sealed area
4. Closed and locked
5. Open cover
6. Turn key: T-handle ejects
7. T-handle can be operated





T-handle

	Part Number	Opening angle	Stroke	Cylinder cover	Padlock	Installation outside the seal	Installation type
a)	302-9001.00-60000	90°	24 mm	Yes		Yes	screw-on
b)	302-9001.00-30000	90°	24 mm	Yes	Yes	Yes	screw-on
c)	302-9001.00-50000	90°	24 mm	Yes		Yes	screw-on
d)	302-9001.00-20000	90°	24 mm	Yes	Yes	Yes	screw-on

	Accessories
385	211-9003.00-00000 **Profile-Cylinder**
385	211-9004.00-00000 **Profile-Cylinder**

Rod Latch RS/FS PrA

[3-100]



Advantages

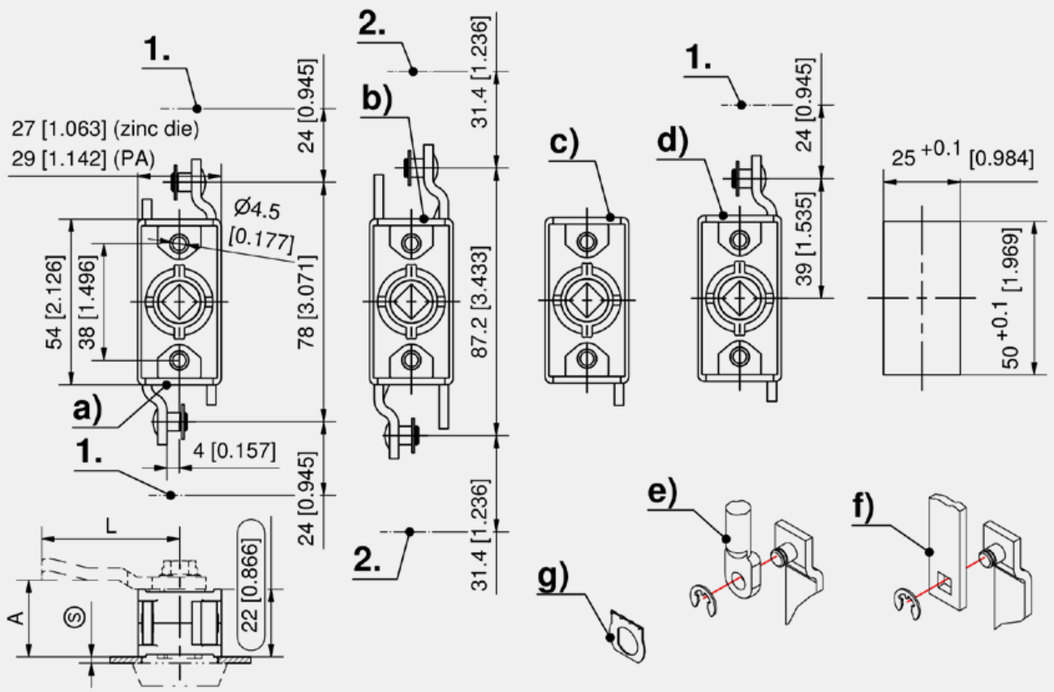
- Rod latch to control round or flat rods.
- The latch can be used with escutcheon, handles or swinghandles.
- Installation with or without cam.
- For application within the seals area.
- In edge area can also be used outside the seal.
- RH or LH application.
- Stroke 24 / 31,4mm.
- Grounding by grounding clip.

Materials

- **Housing:** PA, black / zinc die, untreated
- **Pinion:** zinc die
- **Rods:** steel, zinc plated

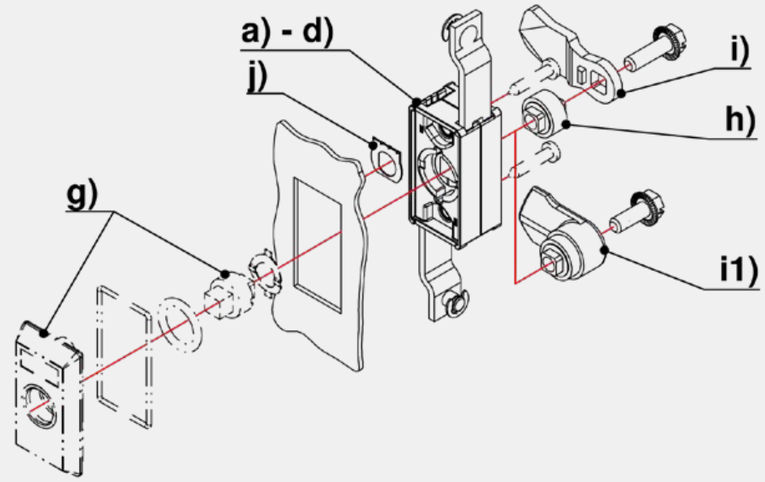
Remarks

1. stroke 24mm
2. stroke 31,4mm



Formula for rods:
cutout in the door cente

$$L = \frac{\text{clearance - 10mm [0.394] (tolerance) - Rod Latch System inretraced condition}}{2}$$



Rod latch, zinc die, untreated

	Part Number	Pivoting range	Version	Stroke	Installation type
a)	208-9001.00-00000	135°	for inserts	24 mm	screw-on
b)	208-9008.00-00000	180°	for inserts	31.4 mm	screw-on
c)	208-9013.00-00000	135°	for inserts, without rod		screw-on
d)	208-9014.00-00000	135°	for inserts, with one rod	24 mm	screw-on

Rod latch, PA, black

	Part Number	Pivoting range	Version	Stroke	Installation type
a)	208-9051.00-00000	135°	for inserts	24 mm	screw-on
b)	208-9058.00-00000	180°	for inserts	31.4 mm	screw-on
c)	208-9063.00-00000	135°	for inserts, without rod		screw-on
d)	208-9064.00-00000	135°	for inserts, with one rod	24 mm	screw-on

	Accessories
g)	3-101 **Escutcheons and Inserts**
g)	3-135 **Escutcheon for Rod Latch PrA**
g)	3-110 **Handles for Rod Latch FS PrA**
e)	1-170 **Round Rod with Eye**
e)	1-180 **Round Rods for Adapter**
f)	3-161 **Flat Rod FS**
i)	1-102 **Cams L35/45 Steel**
j)	3-011 **Grounding clip**
i1)	208-9401.00-00000 **Cam with square, A25, L30 with serrated screw M6x16**
i1)	208-9402.00-00000 **Cam with square, A20, L40 with serrated screw M6x16**
i1)	208-9404.00-00000 **Cam with square, A18, L40 with serrated screw M6x16**
i1)	208-9408.00-00000 **Cam with square, A30, L30 with serrated screw M6x16**
h)	3-163 **Cam Adapter**

Rod Latch FS PrA Stainless Steel [7-030]



Advantages

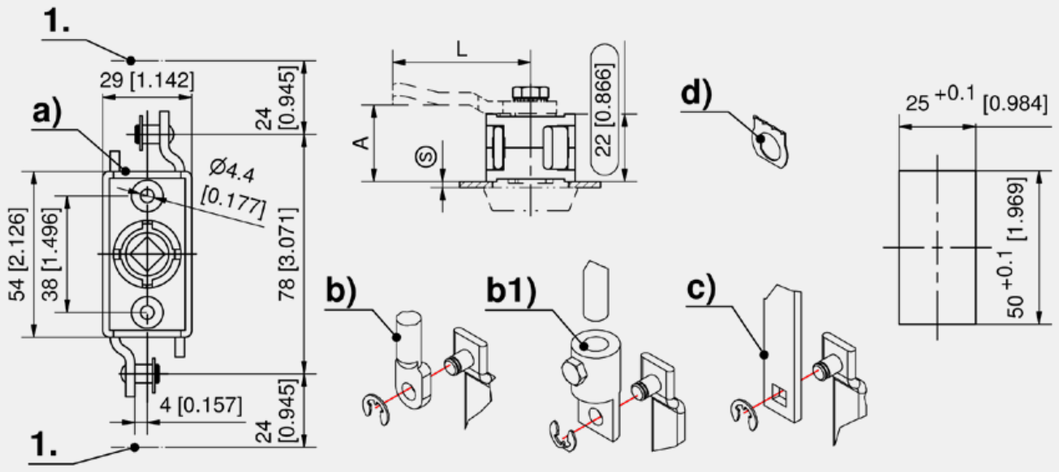
- Rod latch to control round or flat rods.
- The latch can be used with escutcheon, handles or swinghandles.
- Installation with or without cam.
- For application within the seals area.
- In edge area can also be used outside the seal.
- RH or LH application.
- Grounding by grounding clip.

Materials

- **Latch, rods, inserts, escutcheon, cams and adapter:** stainless steel AISI 316
- **Grounding clip:** stainless steel AISI 301
- **Ramp-shoe:** PA, black
- **Inserts:** stainless steel AISI 303

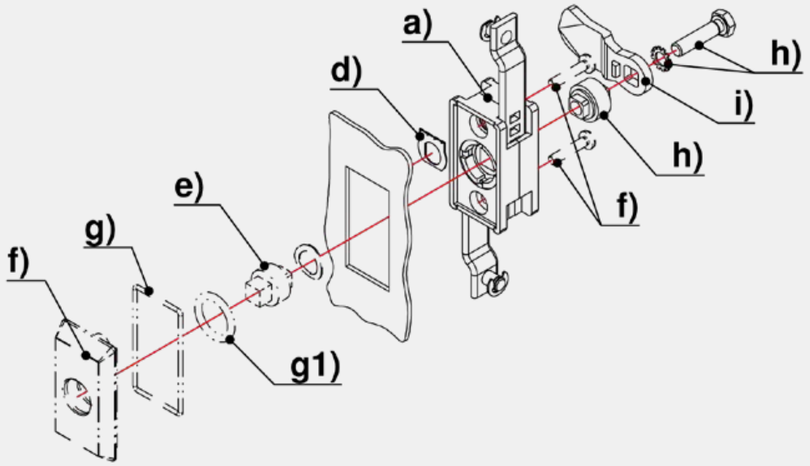
Remarks

1. stroke 24mm (0.945)



Formula for rods:
cutout in the door cente

$$L = \frac{\text{clearance - 10mm [0.394] (tolerance) - Rod Latch System inretraced condition}}{2}$$



Rod Latch

	Part Number	Version	Stroke	Installation type
a)	208-9025.00-00000	for inserts	24 mm	screw-on

Accessories

e)	7-082 **Insert Stainless Steel Pr20.1**
b)	7-106 **Round Rods Stainless Steel**
c)	7-070 **Flat Rods Stainless Steel**
i)	7-105 **Cams L35/45 Stainless Steel**
b1)	200-9603.00-00000 **Adapter for Round Rods**
d)	3-011 **Grounding clip**
g)	208-1802.00-00000 **O-ring 39.45 x 1.78mm**
g1)	208-1801.00-00000 **O-ring 16 x 3.0mm**
h)	208-9406.00-00000 **Adapter for rod latch system stainless steel**
f)	7-035 **T- and L-Handle Stainless Steel**
f)	7-034 **Lock Cover PrA / PrC Stainless Steel**

Rod Latch FS PrB

[3-075]



Advantages

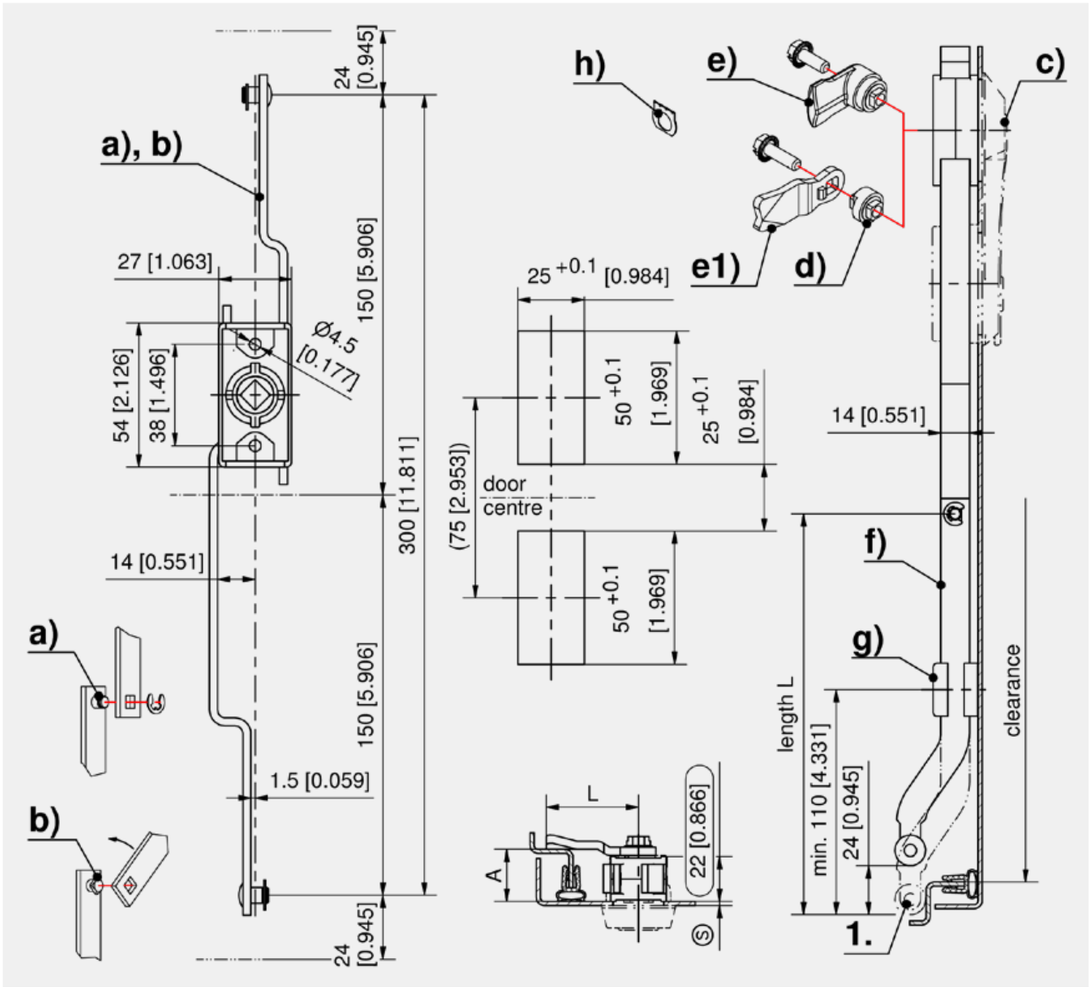
- For cutout B.
- For application within the sealed area.
- The latch can be combined with escutcheons or swinghandles.
- RH or LH application through double symmetry.
- Grounding by grounding clip.

Materials

- **Rods:** steel, zinc plated
- **Pinion:** sintered metal
- **Housing:** zinc die, untreated

Remarks

1. Stroke 24mm



Formula for rods:
cutout in the door cente

$$L = \frac{\text{clearance - 10mm [0.394] (tolerance) - Rod Latch System in retraced condition 300mm [11.811]}}{2}$$

Rod Latch

	Part Number	Version	Stroke	Rod fastening	Installation type
a)	208-9021.00-00000	for inserts + swinghandle	24 mm	C-clip	screw-on
b)	208-9022.00-00000	for inserts + swinghandle	24 mm	Quick-fit	screw-on

	Accessories
c)	3-101 **Escutcheons and Inserts**
c)	3-136 **Cutout-Cover PrA / PrB / PrC**
c)	3-135 **Escutcheon for Rod Latch PrA**
c)	3-070 **Swinghandle FS PrB**
g)	3-910 **Flat Rod Guide FS**
g)	3-911 **Rod Guide FS**
f)	3-160 **Flat Rod FS with Rollers**
e1)	1-102 **Cams L35/45 Steel**
h)	3-011 **Grounding clip**
e)	208-9401.00-00000 **Cam with square, A25, L30 with serrated screw M6x16**
	208-9402.00-00000 **Cam with square, A20, L40 with serrated screw M6x16**
e)	208-9404.00-00000 **Cam with square, A18, L40 with serrated screw M6x16**
e)	208-9408.00-00000 **Cam with square, A30, L30 with serrated screw M6x16**
e)	208-9403.00-00000 **Adapter with screw M6x20**
d)	3-163 **Cam Adapter**

Rod Latch RS PrB

[3-132.01]



Advantages

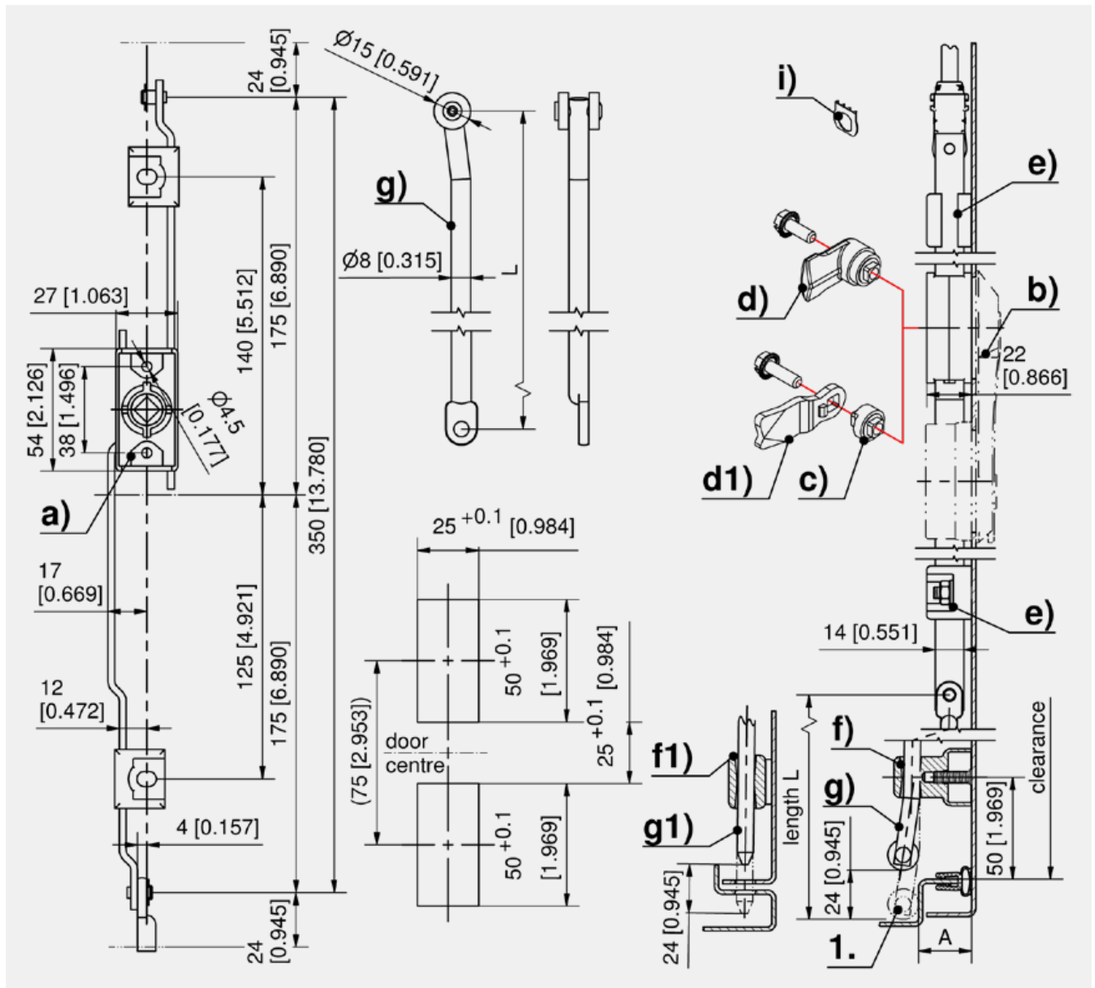
- Rod latch for round rods.
- Both flat rods of the rod latch have to be guided additionally.
- Can be equipped with escutcheons or swinghandels.
- RH / LH apliccation.
- Grounding by grounding clip.
- In this configuration both round rods have the same length.
- The 4 weld-studs for the rod guides are positioned exactly in the line with the center of the latch system.

Materials

- **Rod latch:** zinc die, untreated / steel, zinc plated

Remarks

1. Stroke 24mm



Formula for rods:
cutout in the door cente

$$L = \frac{\text{clearance - 10mm [0.394] (tolerance) - Rod Latch System in retraced condition 350mm [13.780]}}{2}$$

Rod Latch

	Part Number	Version	Stroke	Installation type
a)	208-9016.00-00000	for inserts + swinghandle	24 mm	screw-on

	Accessories
b)	3-136 **Cutout-Cover PrA / PrB / PrC**
b)	3-135 **Escutcheon for Rod Latch PrA**
b)	3-070 **Swinghandle FS PrB**
f1)	1-192 **Rod Guides**
f)	1-193 **Rod Guide RS**
f)	1-190 **Rod Guides for 8mm Round Rods**
e)	3-910 **Flat Rod Guide FS**
d1)	1-102 **Cams L35/45 Steel**
g1)	201-0111.00-Lxxmm **Round rod, variable length**
g)	201-9021.00-Lxxmm **Round rod, variable length**
i)	3-011 **Grounding clip**
d)	208-9401.00-00000 **Cam with square, A25, L30 with serrated screw M6x16**
d)	208-9402.00-00000 **Cam with square, A20, L40 with serrated screw M6x16**
d)	208-9404.00-00000 **Cam with square, A18, L40 with serrated screw M6x16**
d)	208-9408.00-00000 **Cam with square, A30, L30 with serrated screw M6x16**
c)	3-163 **Cam Adapter**

Rod Latch FS PrC

[3-130]



Advantages

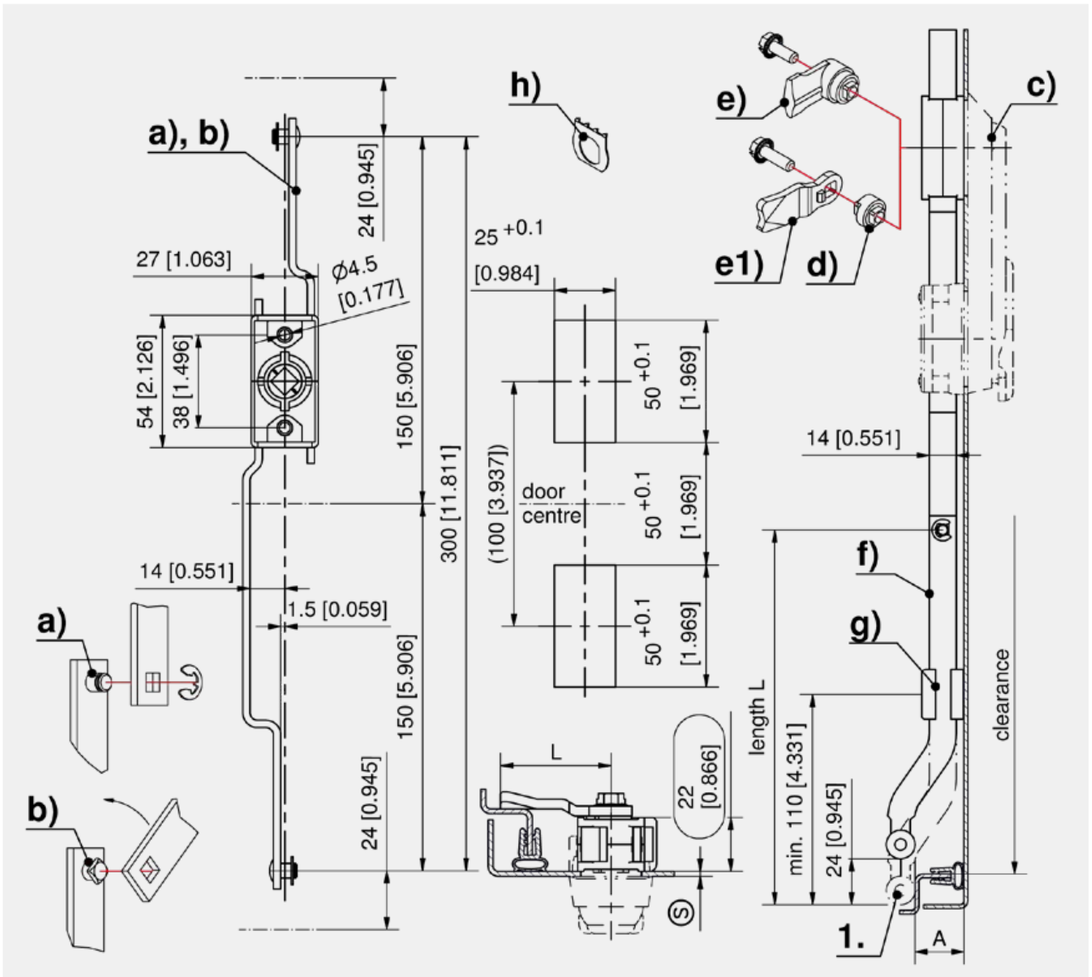
- Rod latch for flat rods.
- Rod latch for application within the sealed area.
- The latch can be combined with escutcheons, handles or swinghandles.
- RH or LH application.
- Grounding by grounding clip.

Materials

- **Housing:** zinc die, untreated / steel, zinc plated or PA, black
- **Pinion:** zinc die
- **Rods:** steel, zinc plated
- **Insert:** zinc die, chrome plated
- **Escutcheon:** PA, black
- **Cam:** zinc die, untreated
- **Rod Guide:** PA, black
- **Grounding clip:** stainless steel AISI 301

Remarks

1. stroke 24mm [0.945]



Formula for rods:
cutout in the door cente

$$L = \frac{\text{Rod Latch System in clearance - 10mm [0.394] (tolerance) - retraced condition 300mm [11.811]}}{2\ [0.079]}$$

Rod Latch

	Part Number	Version	Stroke	Rod fastening	Installation type
a)	208-9002.00-00000	zinc die, for inserts and swinghandles	24 mm	C-clips	screw-on
a)	208-9052.00-00000	PA, for inserts and swinghandles	24 mm	C-clips	screw-on
b)	208-9003.00-00000	zinc die, for inserts and swinghandles	24 mm	Quick-fit	screw-on
b)	208-9053.00-00000	PA, for inserts and swinghandles	24 mm	Quick-fit	screw-on

	Accessories
c)	3-101 **Escutcheons and Inserts**
c)	3-135 **Escutcheon for Rod Latch PrA**
c)	3-140 **Handles for Rod Latch FS PrC**
c)	3-155.02 **Swinghandle SOFTLINE FS PrC**
c)	3-150 **Swinghandle FS PrC for PHZ**
f)	3-162 **Ramp-Shoe for Flat Rod**
g)	3-910 **Flat Rod Guide FS**
g)	3-911 **Rod Guide FS**
f)	3-160 **Flat Rod FS with Rollers**
e1)	1-102 **Cams L35/45 Steel**
h)	3-011 **Grounding clip**
e)	208-9401.00-00000 **Cam with square, A25, L30 with serrated screw M6x16**
e)	208-9402.00-00000 **Cam with square, A20, L40 with serrated screw M6x16**
e)	208-9404.00-00000 **Cam with square, A18, L40 with serrated screw M6x16**
e)	208-9408.00-00000 **Cam with square, A30, L30 with serrated screw M6x16**
d)	3-163 **Cam Adapter**

Rod Latch FS PrC Stainless Steel

[7-040]

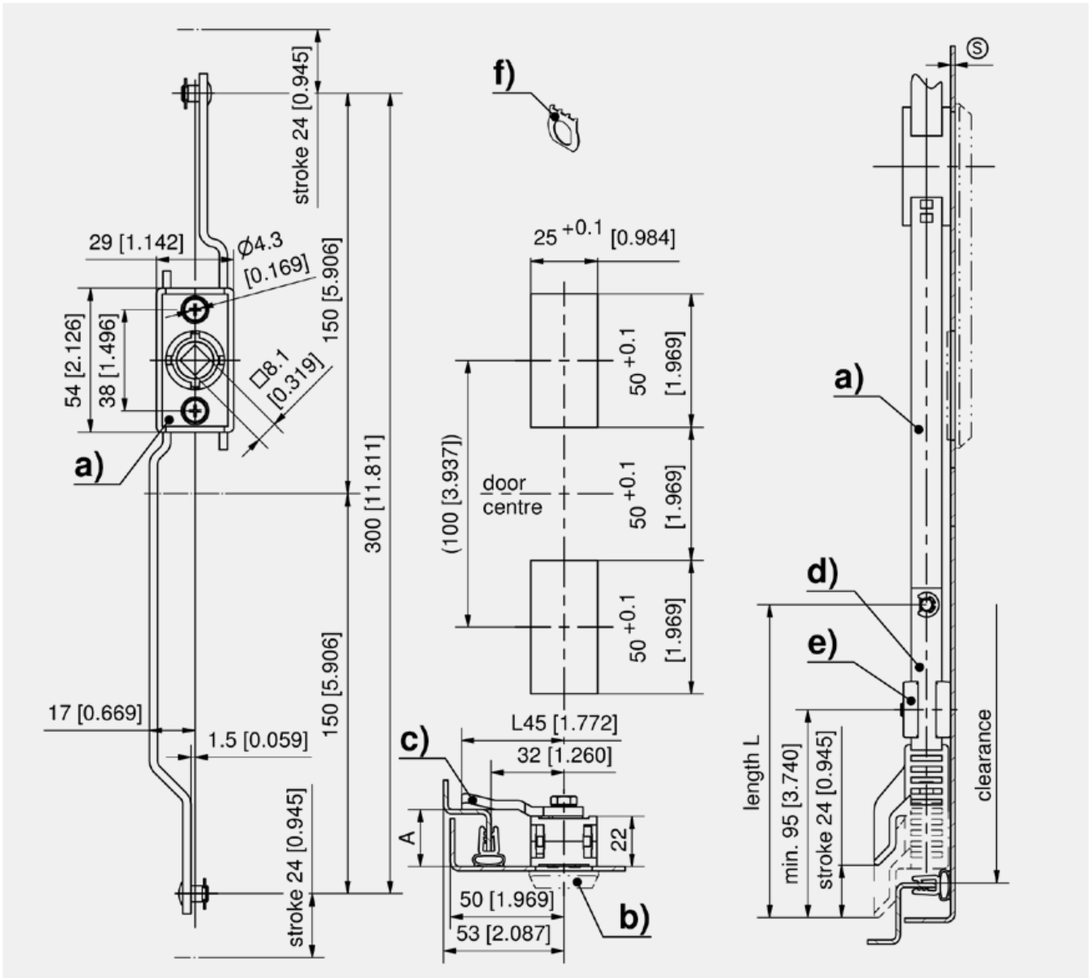


Advantages

- Rod latch for flat rods.
- For application within the sealed area.
- The latch can be used with escutcheon, handles or swinghandles.
- RH or LH application.
- Grounding by grounding clip.

Materials

- **Housing and rods:** stainless steel AISI 316



Formula for flat rods:
cutout in the door center

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm}[0.394]\ (\text{tolerance}) - \text{rod latch system } 300\text{mm}\ [11.811]}{2[0.079]}$$

Rod Latch

	Part Number	Version	Stroke	Installation outside the seal	Installation type
a)	208-9024.00-00000	for inserts + swinghandle	24 mm	No	screw-on

Accessories
b) 7-030 **Insert Stainless Steel**
3-150 **Swinghandle FS PrC for PHZ**
7-060 **Swinghandle FS PrC Stainless Steel**
d) 7-070 **Flat Rods Stainless Steel**
c) 7-105 **Cams L35/45 Stainless Steel**
e) 208-1501.03-00000 **Rod guide, 1-part**
e) 208-9790.00-00000 **Rod guide for weld stud**
f) 3-011 **Grounding clip**
208-9406.00-00000 **Adapter for rod latch system stainless steel**
208-9504.00-00000 **Escutcheon**

Rod Latch RS PrC

[3-132.02]



Advantages

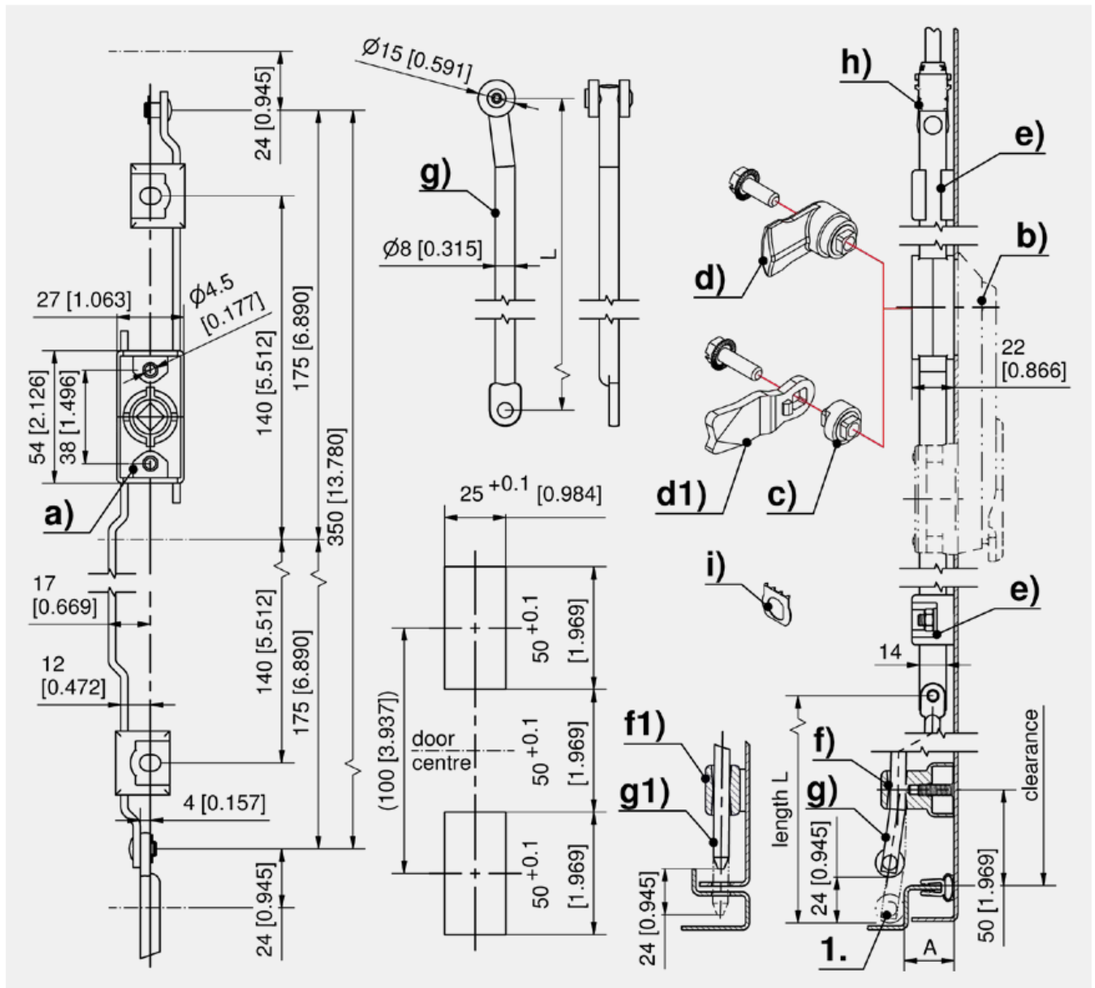
- Rod latch for round rods.
- Both flat rods of the rod latch have to be guided additionally.(e)
- In this configuration both round rods have the same length.
- The 4 weld-studs for the rod guides version e) and f) are positioned exactly in the line with the center of the latch.
- Grounding by grounding clip.

Materials

- **Rod latch:** zinc die, untreated / steel, zinc plated

Remarks

1. stroke 24mm [0.945]



Formula for rods:
cutout in the door cente

$$L = \frac{\text{clearance} - 10\text{mm } [0.394] \text{ (tolerance)} - \text{Rod Latch System in retraced condition } 350\text{mm } [13.780]}{2}$$

Rod Latch

	Part Number	Version	Stroke	Padlock	Installation type
a)	208-9015.00-00000	for inserts + swinghandle	24 mm	Yes	screw-on

	Accessories
b)	3-101 **Escutcheons and Inserts**
b)	3-140 **Handles for Rod Latch FS PrC**
b)	3-150 **Swinghandle FS PrC for PHZ**
f)	1-190 **Rod Guides for 8mm Round Rods**
h)	1-181.01 **Adapter zinc die for Round Rods**
h)	1-181 **Adapter PA for Round Rods**
g1)	1-170 **Round Rod with Eye**
g1)	1-180 **Round Rods for Adapter**
e)	3-910 **Flat Rod Guide FS**
d1)	1-102 **Cams L35/45 Steel**
g)	201-9021.00-Lxxmm **Round rod, variable length**
i)	3-011 **Grounding clip**
d)	208-9401.00-00000 **Cam with square, A25, L30 with serrated screw M6x16**
d)	208-9402.00-00000 **Cam with square, A20, L40 with serrated screw M6x16**
d)	208-9404.00-00000 **Cam with square, A18, L40 with serrated screw M6x16**
d)	208-9408.00-00000 **Cam with square, A30, L30 with serrated screw M6x16**
c)	3-163 **Cam Adapter**

Grounding clip Stainless Steel

[3-011]



Grounding clip for rod latch system and bearing plate

Advantages

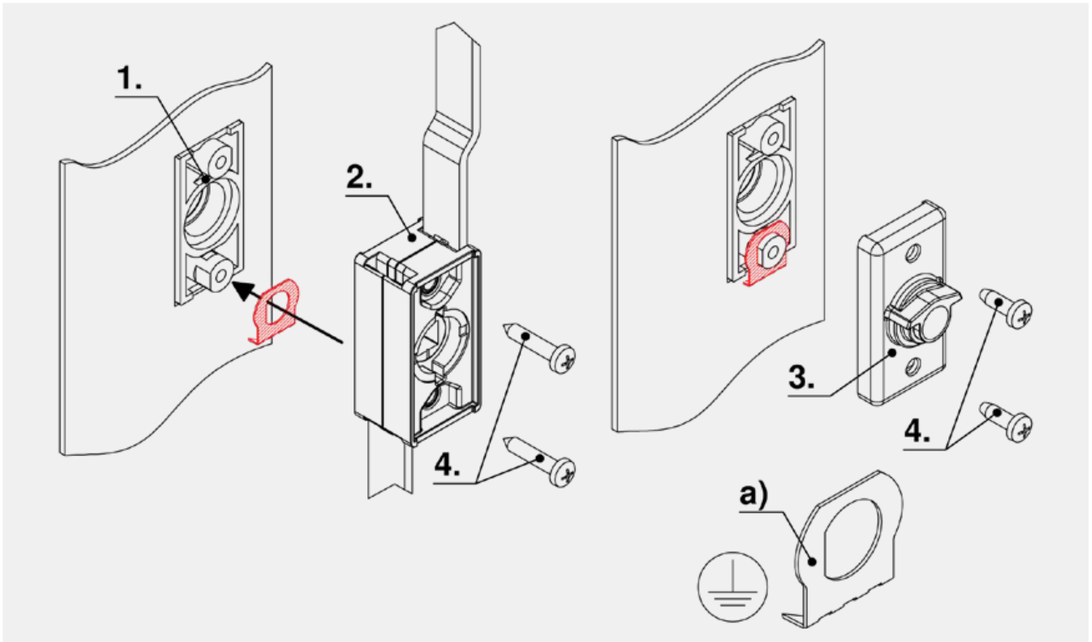
- Tested by the VDE testing and certification Institute in Offenbach.
- Passed all tests according to DIN (VDE 0100 part 540): 2012-06 as well as DIN EN 61439-1 (VDE 0660 part 600): 2012-06 section 8.4.3.2.2 and 10.5.2.
- Anodised and powder coated (epoxy and polyester) panels were tested with a thickness of up to 240µm.

Materials

- **Grounding clip:** stainless steel AISI 301

Remarks

1. = Back of the latching devices
2. = Flat rod latch
3. = Bearing, Cam / 3-point cam
4. = Clamping torque 2 Nm



Grounding

Part Number	Name	Grounding
208-1206.93-00000	Grounding clip	Yes

Flat Rod FS with Rollers

[3-160]



Advantages

- Flat Rods for bending A20 and A25.
- DIRAK recommends for rods with a length of 200mm and above **2** rod guides.
- Version with ramp shoe see product system 3-161.

Materials

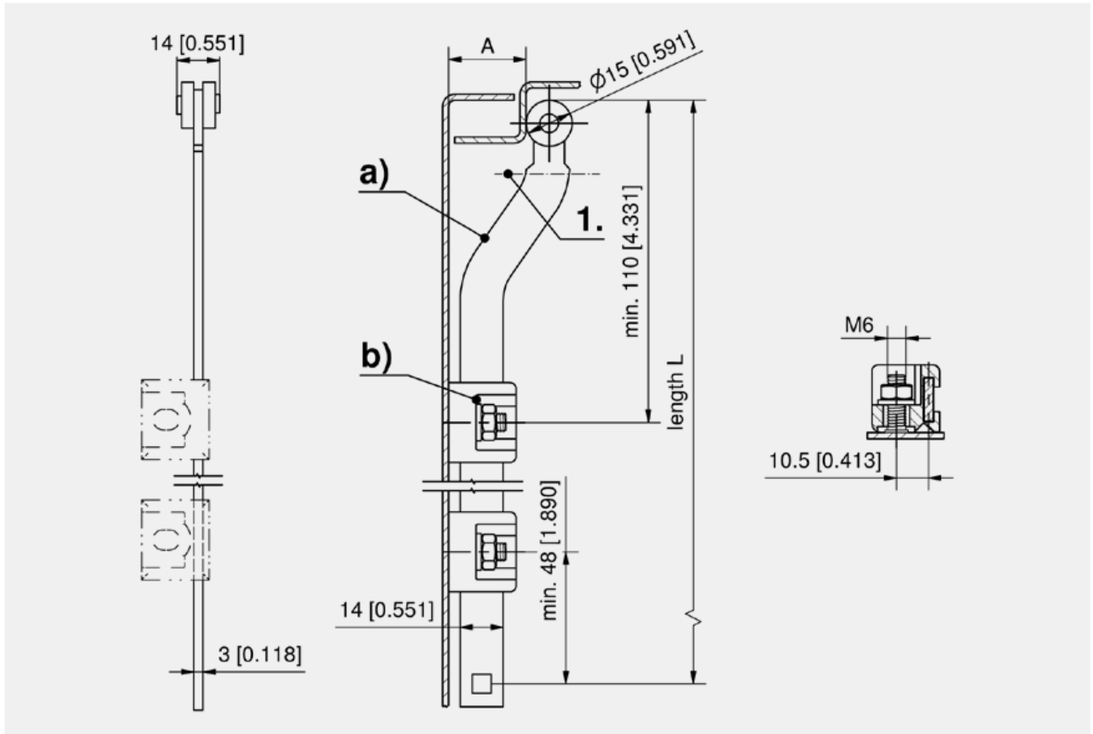
- **Flat rod:** steel, zinc plated
- **Roller:** PA, black

Remarks

1. Stroke

Minimum order quantity 20 pieces.

Price and delivery time on request.



Flat rods, adjustable length

	Part Number	A = bending	Rod dimension WxH	Rod type	variable Length
a)	208-9733.00-Lxxmm	20	14 x 3 mm	Flat Rod	Yes
a)	208-9701.00-Lxxmm	25	14 x 3 mm	Flat Rod	Yes

Accessories
b) 3-910 **Flat Rod Guide FS**
b) 3-911 **Rod Guide FS**

Flat Rod FS

[3-161]



Advantages

- Flat rods for ramp-shoe 3-162.
- **Version a)** With two square holes 6.2mm.
- Calculation of the rod length: L1 = center of square to center of square.
- **Version b)** With one square hole 6.2mm for self cutting. These flat rods are specially designed to allow for custom length rods.
- Calculation of the rod length: L1 = center of square to end of rod.
- The top of the flat rod can be provided with a square 6.2mm or a round Ø7.5mm hole as shown in figure.
- Version with rollers see product system 3-160.

Materials

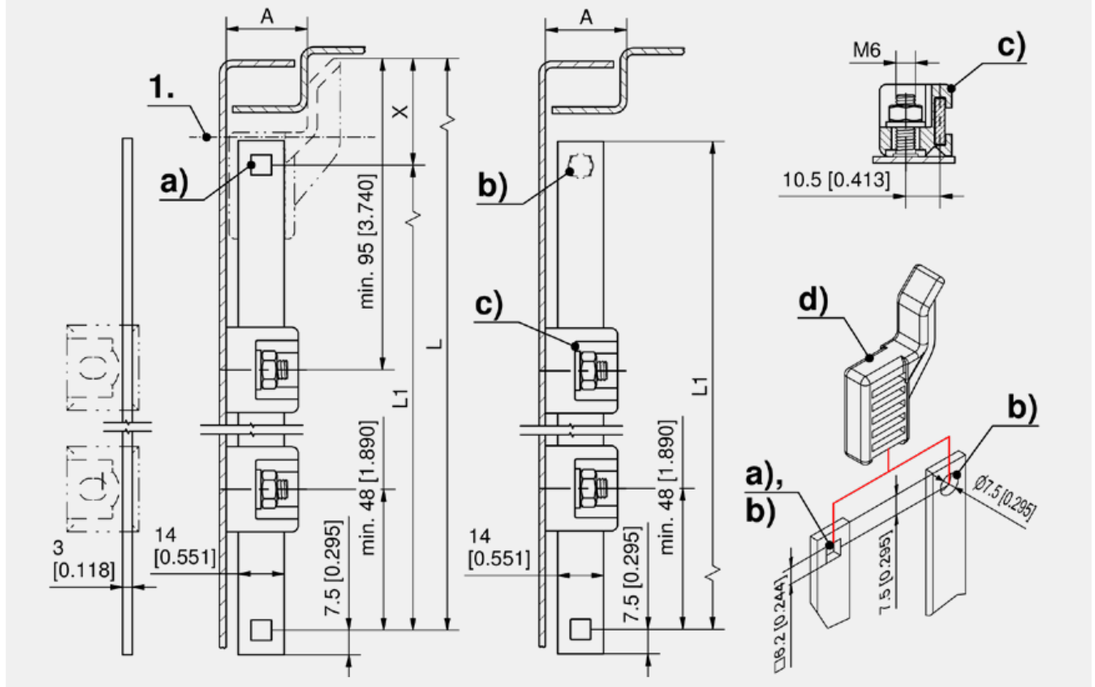
- **Flat rod:** steel, zinc plated

Remarks

1. stroke

Variable lengths: minimum quantity 200 pcs.

From a length of 200mm, DIRAK recommends **2** rod guides.



Flat Rods

	Part Number	Version	Rod dimension WxH	L	variable Length
b)	208-0905.15-00800	Flat rod for self cutting, with 1 square hole 6.2mm	14 x 3 mm	800 mm	
b)	208-0905.15-01000	Flat rod for self cutting, with 1 square hole 6.2mm	14 x 3 mm	1000 mm	
b)	208-0905.15-01200	Flat rod for self cutting, with 1 square hole 6.2mm	14 x 3 mm	1200 mm	
b)	208-0905.15-Lxxmm	Flat rod for self cutting, with 1 square hole 6.2mm	14 x 3 mm		Yes
a)	208-0934.00-Lxxmm	with 2 square holes 6,2mm	14 x 3 mm		Yes

Accessories

d) 3-162 **Ramp-Shoe for Flat Rod**
c) 3-910 **Flat Rod Guide FS**
c) 3-911 **Rod Guide FS**

Assembly options

208-0014.00-00000 **Assembling of ramp-shoe**

Flat Rods Stainless Steel

[7-070]



Advantages

- Flat rods for ramp-shoe 3-162.
- **Version a)** With two square holes 6.2mm.
- Calculation of the rod length: L1 = center of square to center of square.
- **Version b)** With one square hole 6.2mm for self cutting. These flat rods are specially designed to allow for custom length rods.
- Calculation of the rod length: L1 = center of square to end of rod.
- The top of the flat rod can be provided with a square 6.2mm or a round Ø7.5mm hole as shown in figure.

Materials

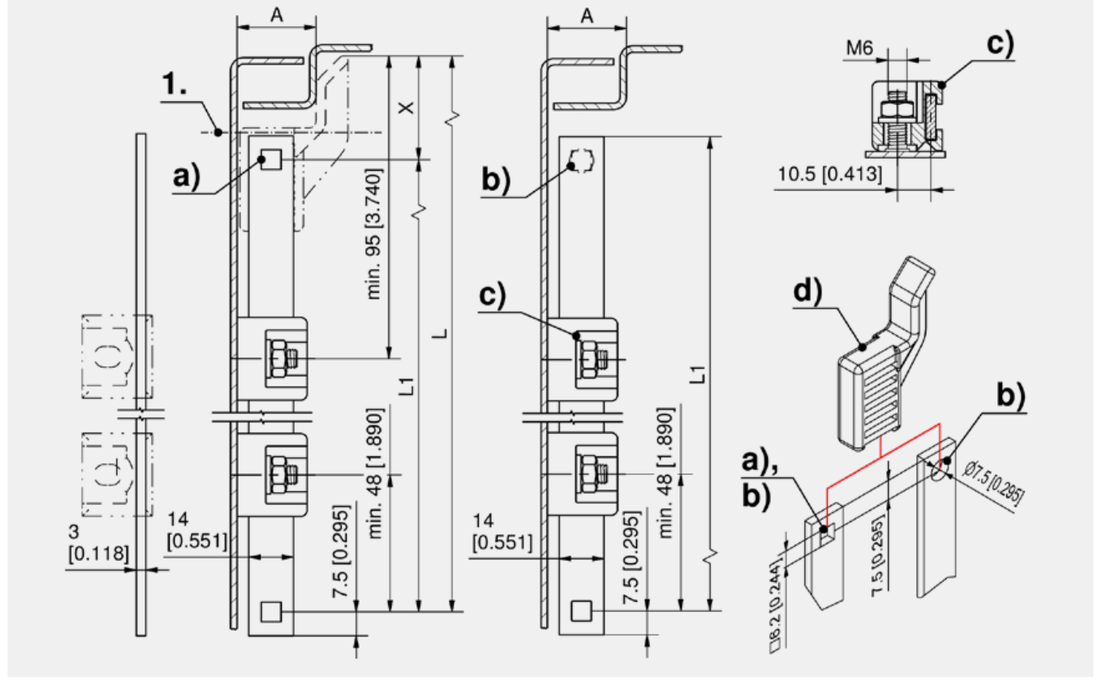
- **Flat rod:** stainless steel AISI 304
- **Rod Guide:** stainless steel or PA, black
- **Ramp-shoe:** PA, black

Remarks

1. stroke

Variable lengths: minimum quantity 200 pcs

From a length of 200mm, DIRAK recommends **2** rod guides.



Flat Rods

	Part Number	Name	Length	Quick-fit	Rod dimension WxH
a)	208-0934.04-Lxxmm	Flat rod, special length		Yes	14 x 3 mm
b)	208-0905.04-Lxxmm	Flat rod, special length		Yes	14 x 3 mm
b)	208-0905.04-01000	Flat Rod	1000 mm	Yes	14 x 3 mm

Accessories

d) 3-162 **Ramp-Shoe for Flat Rod**
c) 3-910 **Flat Rod Guide FS**
c) 3-911 **Rod Guide FS**

Assembly options

208-0014.00-00000 **Assembling of ramp-shoe**

Ramp-Shoe for Flat Rod

[3-162]



Advantages

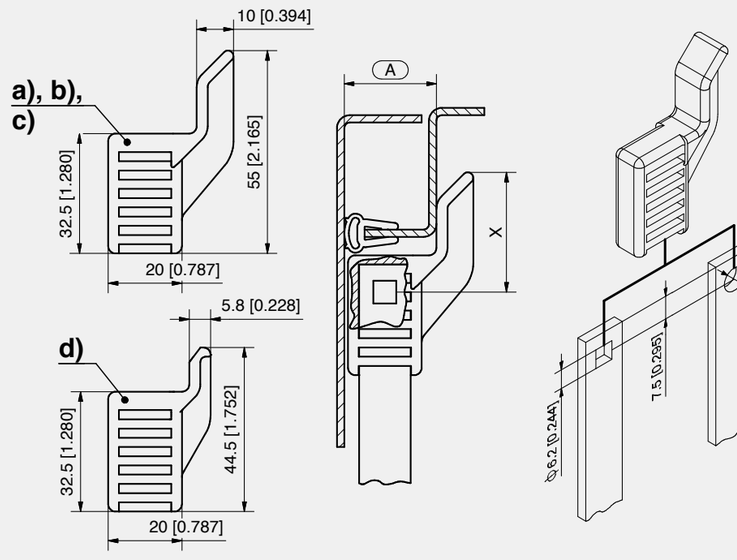
- The ramp-shoe is pushed on and snaps into the hole at the bottom of the rod.
- Tool-less installation.
- Opening square 6.2mm.
- Alternative bore Ø7.5mm.

Materials

- **Ramp-shoe:** PA, black

Remarks

Please note that the dimension X is to be deducted from the total length of the rod when calculating the rod length.



Ramp-Shoe for Flat Rod

	Part Number	A = bending	Dimension X	Installation type	Rod dimension WxH
a)	208-2403.03-00018	A18	32.5 mm	tool-less	14 x 3 mm
b)	208-2403.03-00020	A20	32.5 mm	tool-less	14 x 3 mm
c)	208-2403.03-00025	A25	32.5 mm	tool-less	14 x 3 mm
d)	208-2402.03-00023	A23	22 mm	tool-less	14 x 3 mm

Assembly options

208-0014.00-00000 **Assembling of ramp-shoe**

Rod Latch FS PrC and Angle Pieces with Rollers

[3-165]



Advantages

- The rod latch (a) for cutout PrC (100).
- Rod latch with variable dimensions.
- For installation on the inside of the sealed area of enclosures.
- Applicable for bending (A) 20mm and 26mm.
- Usable left and right.
- Length L (extended) for symmetrical doors is calculated from length X + 30mm and length Y + 30mm.
- The rod Y is 100mm longer than the rod X.
- The minimum clear height of the enclosure for symmetrical doors is 480mm.
- Attention: drawing shows “extended”.

Materials

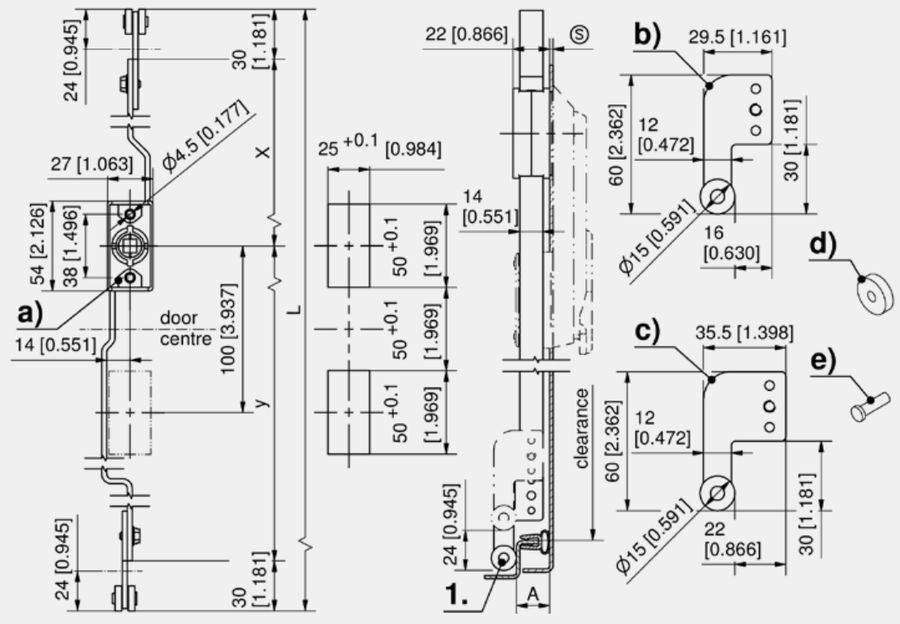
- **Rod latch:** zinc die, untreated
- **Flat rod, angle pieces, rived:** steel, zinc plated
- **Roll:** PA, black or steel, zinc plated

Remarks

1. Stroke 24mm

Minimum order quantity 100 pcs.

Price and delivery time on request.



Rod latch for right-angle terminal

	Part Number	Version	Stroke	Installation type
a)	208-9715.00-Lxxmm	for inserts + swinghandle	24 mm	screw-on

Right-angle terminal

	Part Number	Name
b)	208-9902.00-00020	Right-angle terminal A20
c)	208-9902.00-00026	Right-angle terminal A26

Accessories

d) 203-0301.03-00000 **Roll PA**
d) 203-0301.15-00000 **Roll steel, zinc plated**
e) 203-0402.00-00000 **rivet**

Cam Adapter

[3-163]

RoHS WEEE



Advantages

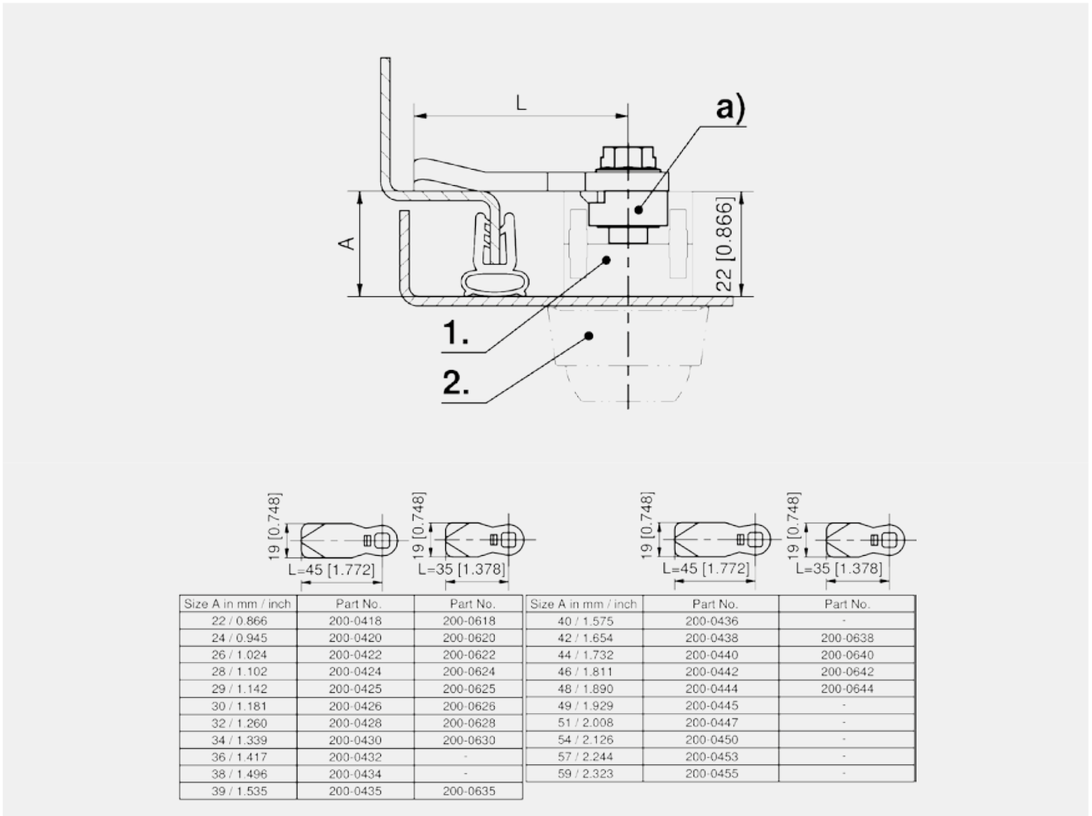
- Cam adapter suitable for rod latch systems see product system 3-070, 3-100, 3-130, 3-132.01 or 3-165.

Materials

- **Cam adapter:** zinc die, untreated

Remarks

1. Rod latch
2. Escutcheon / swinghandle



Size A in mm / inch	Part No.	Part No.
22 / 0.866	200-0418	200-0618
24 / 0.945	200-0420	200-0620
26 / 1.024	200-0422	200-0622
28 / 1.102	200-0424	200-0624
29 / 1.142	200-0425	200-0625
30 / 1.181	200-0426	200-0626
32 / 1.260	200-0428	200-0628
34 / 1.339	200-0430	200-0630
36 / 1.417	200-0432	-
38 / 1.496	200-0434	-
39 / 1.535	200-0435	200-0635

Size A in mm / inch	Part No.	Part No.
40 / 1.575	200-0436	-
42 / 1.654	200-0438	200-0638
44 / 1.732	200-0440	200-0640
46 / 1.811	200-0442	200-0642
48 / 1.890	200-0444	200-0644
49 / 1.929	200-0445	-
51 / 2.008	200-0447	-
54 / 2.126	200-0450	-
57 / 2.244	200-0453	-
59 / 2.323	200-0455	-

Adapter

	Part Number	Name
a)	208-9403.00-00000	Adapter with screw M6x20

Accessories
1-102 **Cams L35/45 Steel**

Adapter Set for Swinghandle

[3-152]



Advantages

- Adapter set for conversion of swinghandles for flat rods to round rods/ cam drive.
- RH / LH application.
- 90° stop.
- Use of cams, 3-point cams and 3-point cam adapter with stop.
- Overtightening of the cam/3-point cam not possible due to the stop.

Materials

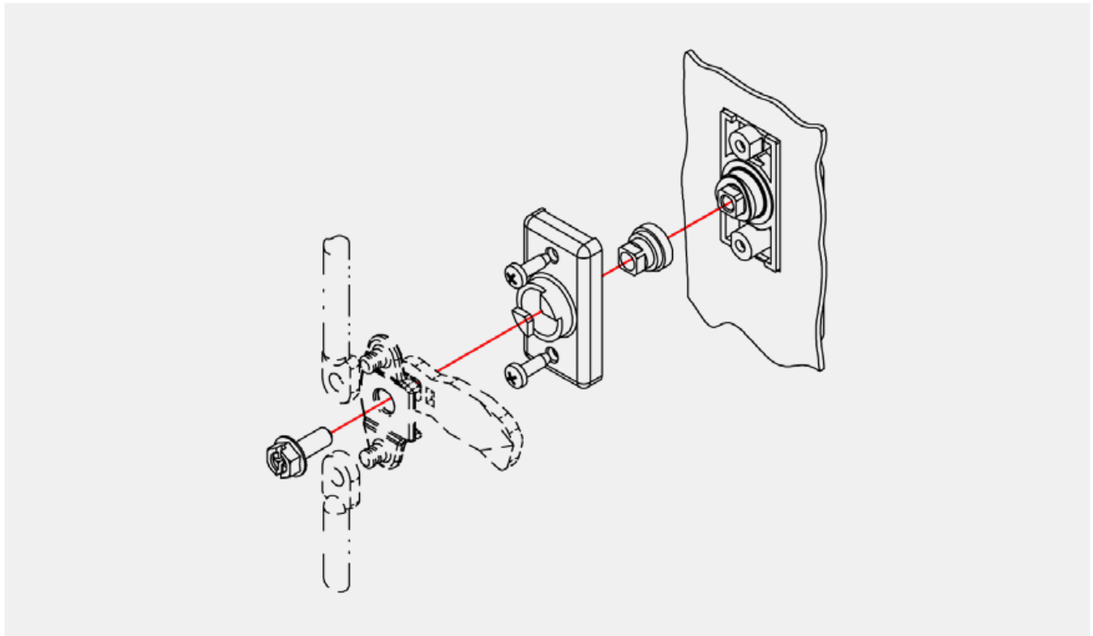
- **Bearing plate:** PA, black
- **Adapter:** zinc die, untreated

B

C

R L

RoHS WEEE



Adapter set

Part Number	2-point cam	3-point cam
207-9703.00-00000	Yes	Yes

Accessories
1-102 **Cams L35/45 Steel**
2-151 **2-, 3- and 4-Point Cam Adapter**
2-151.04 **3-Point Cam Adapter**

Flat Rod Guide FS

[3-910]



Advantages

- For flat rods 14x3mm.
- a), b) and c): Rod guide with living hinge for pre-assembly onto the flat rod.
- b) and c): Rod guide for OFF-SET-DUO SYSTEM see product system 3-310.
- d) and e): Rod guide two halves.

Materials

a), b) and c)

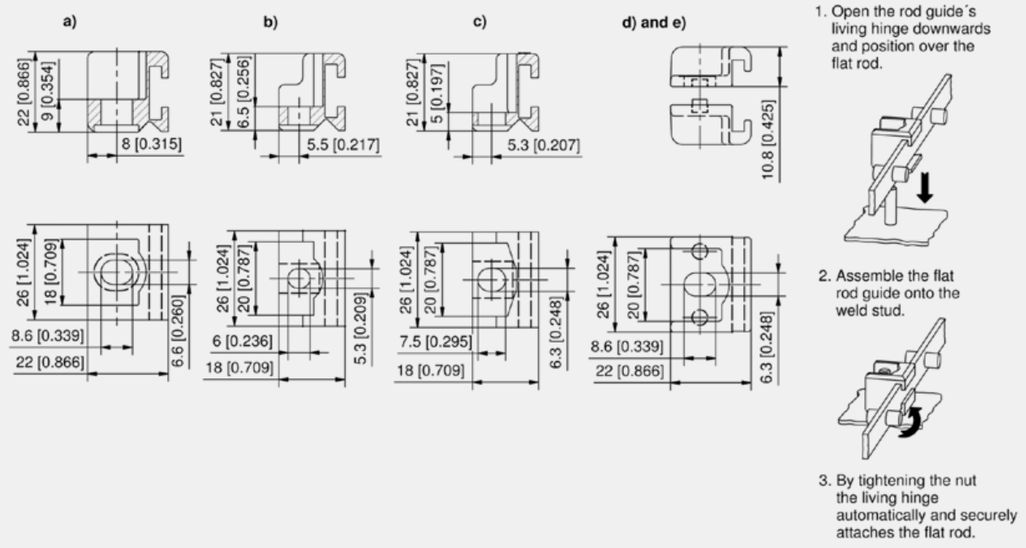
- **Rod guide:** PA, black

d)

- **Rod guide:** stainless steel AISI 316

e)

- **Rod guide:** zinc die, black



Rod guide

	Part Number	Fastening type	Material
a)	208-1501.03-00000	M6	PA
b)	208-1509.03-00000	M5	PA
c)	208-1517.03-00000	M6	PA
d)	208-9790.00-00000	M6	Stainless Steel
e)	208-9791.00-00000	M6	zinc die

Rod Guide FS

[3-911]



Advantages

- Rod Guide for flat rods 14x3mm.
- Quick, tool-less installation.
- Weld-stud M6 x 16-20mm (0.630-0.787).
- The rod guide has to be placed over the weld stud (1) and then pushed onto the thread until a click is audible. It is locked now in the final position (2).
- A visual check through openings is possible from the top.
- The installation and removal of the flat rod is even possible with the rod guides fitted already.
- Vibration-proof.

Materials

- **Rod guide:** PA
- **Pull-off forces upon request.**

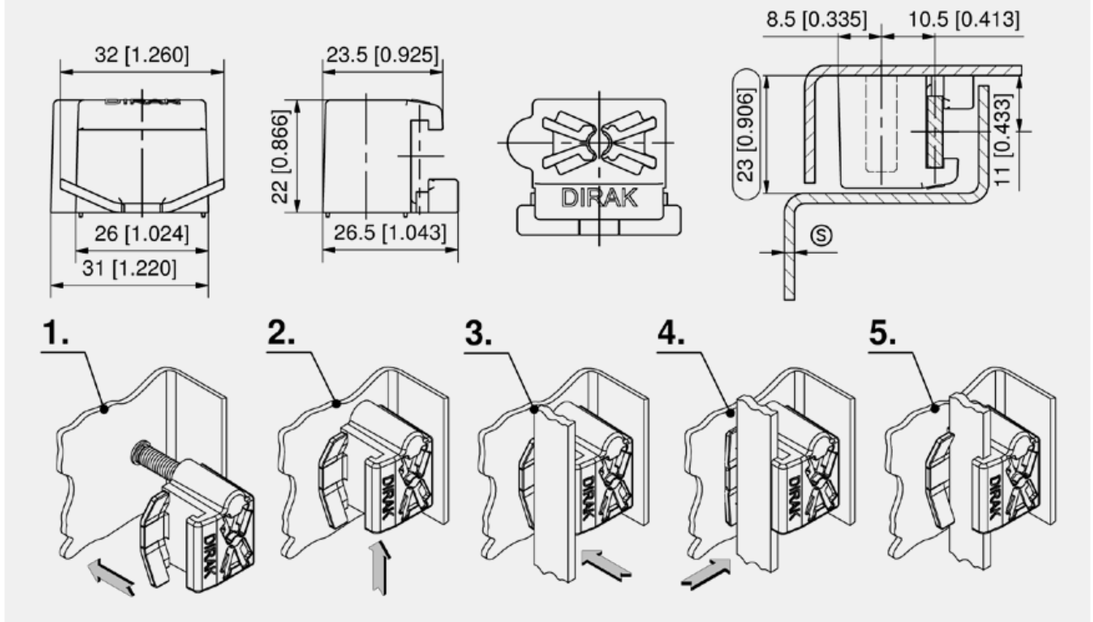
Remarks

When using this rod guide for rod latch system 3-170 the weld-stud must be moved inwards by 2mm.

3. installation of the flat rod with assembled rod guide.

4. wings are flexible.

5. after locking of the flat rod the flexible wings return to their initial position.



Rod guide

Part Number	Version	Fastening type	Material
208-1523.54-00000	for flat rod	quick assembling	PA

Rod Latch for Multi-Point Locking FS PrC [3-170]



Advantages

- Rod latch for mounting outside the sealed area.
- Cutout C.
- Flat rods 14x3mm (0.551x0.118) with mounted dual rollers.
- Locking in dual hooks.
- By rotating around the longitudinal axis applicable RH and LH.
- Version a) one-piece - 2 latching points.
- Version b) three-part (lock with quick fastening and two rods) - 4 latching points.
- Suitable for inserts and escutcheons, wing knob, L-handle or swinghandle.
- Grounding with grounding clip.

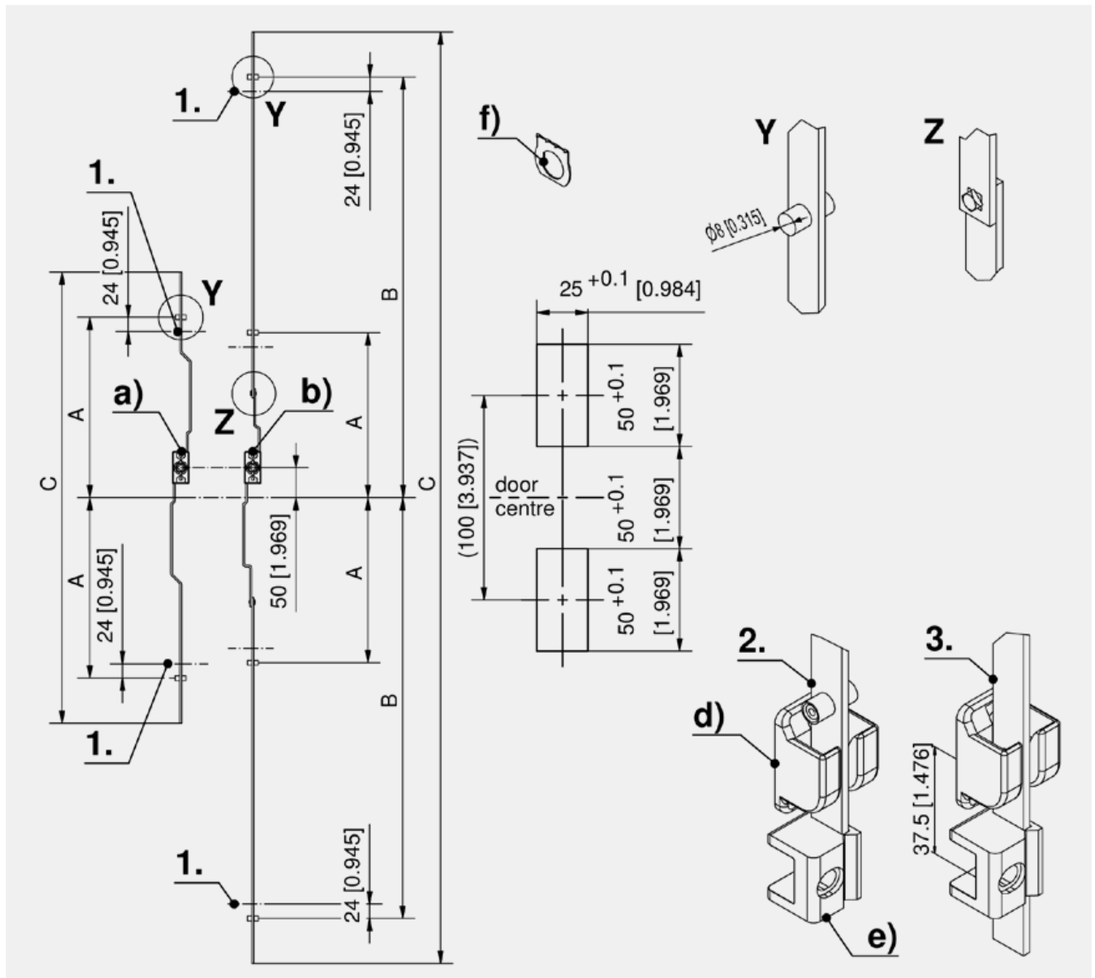
Materials

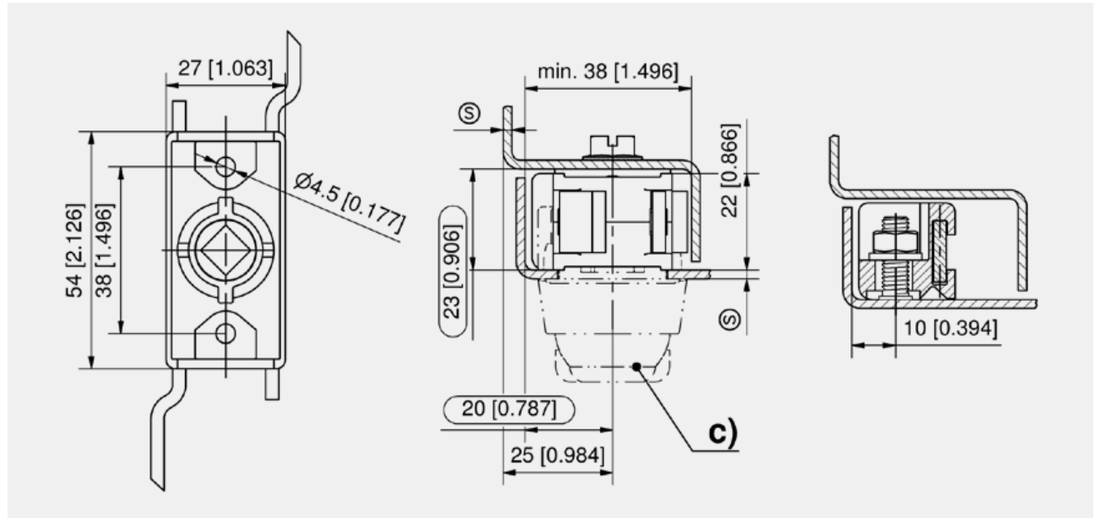
- **Rod latch:** zinc die
- **Rods:** steel, zinc plated
- **Dual rollers:** brass

Remarks

1. Stroke 24mm
2. Open position
3. Closed position

Attention: If the rod guide 208-1523.54 is used the weld stud has to be moved 2mm inwards!





Rod latch + flat rods and dual rollers

	Part Number	Door height Th	Name	Locking points	Dual rollers A	Dual rollers B	Extenden total dimension	Installation outside the seal	Installation type
a)	208-9101.00-00000	800 - 1200 mm	Rod latch, 1-part	2 pcs.	300		750	Yes	screw-on
a)	208-9102.00-00000	1200 - 1600 mm	Rod latch, 1-part	2 pcs.	450		1050	Yes	screw-on
b)	208-9107.00-00000	1600 - 1900 mm	Rod latch, 3-parts	4 pcs.	275	700	1550	Yes	screw-on
b)	208-9108.00-00000	1900 - 2200 mm	Rod latch, 3-parts	4 pcs.	275	850	1850	Yes	screw-on

Accessories
c) 3-101 **Escutcheons and Inserts**
c) 3-140 **Handles for Rod Latch FS PrC**
c) 3-155.02 **Swinghandle SOFTLINE FS PrC**
c) 3-150 **Swinghandle FS PrC for PHZ**
d) 3-912 **Dual Hook FS**
e) 3-910 **Flat Rod Guide FS**
d) 3-911 **Rod Guide FS**
f) 3-011 **Grounding clip**

Dual Hook FS

[3-912]

IP 65

RoHS WEEE



Advantages

- Dual hook for flat rods with dual rollers.
- a) and b) IP65 according by DIN EN 60529 with flat external seal.

Materials

a)

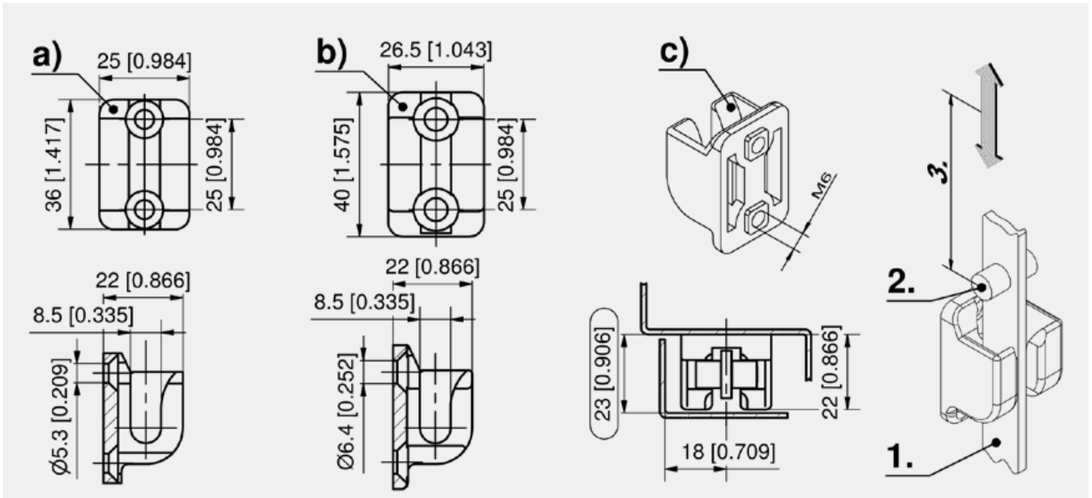
- **Dual hook:** PA, black

b, c)

- **Dual hook:** zinc die, zinc plated

Remarks

1. Flat rod
2. Dual rollers
3. Stroke 24mm



Dual hook

	Part Number	Version	Material	Surface	Installation type
a)	208-1446.50-00000	with countersunk holes for M5	PA	black	screw-on
b)	208-1402.00-00000	with countersunk holes for M6	zinc die	zinc plated	screw-on
c)	208-1401.00-00000	with thread and threaded stubs for M6	zinc die	zinc plated	screw-on

Accessories

6-040 **Serrated Screws**

Function extension

208-1803.00-00000 **Flat external seal**

Dual Hook FS Stainless Steel

[7-910]

IP 65

RoHS WEEE



Advantages

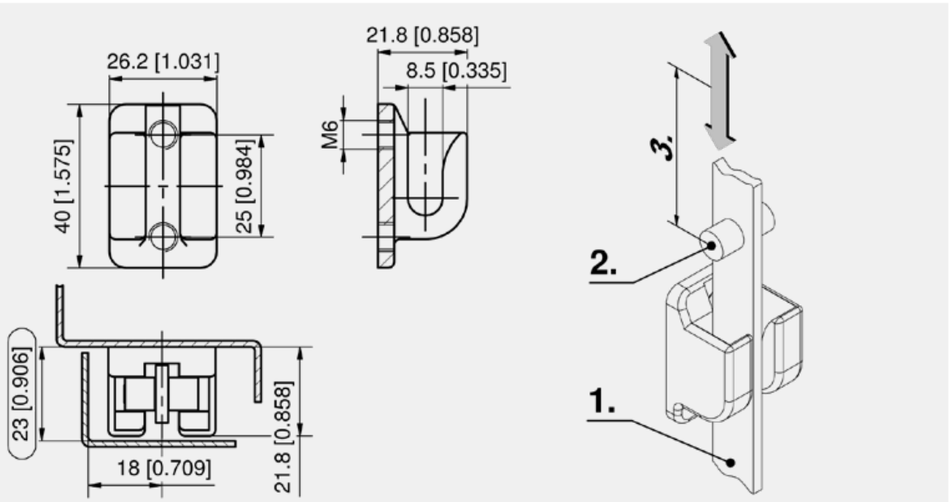
- Installation by countersunk screws M6
- IP65 according to DIN EN 60529 with flat external seal.

Materials

- **Dual Hook:** stainless steel AISI 316, surface bead blasted finish

Remarks

1. Flat rod
2. Dual rollers
3. Stroke 24mm



Dual hook

Part Number	Version	Material	Installation type
208-1439.95-00000	with thread M6	Stainless Steel	screw-on

Accessories

6-040 **Serrated Screws**

Function extension

208-1803.00-00000 **Flat external seal**

DST Dual Hook

[3-910DST]

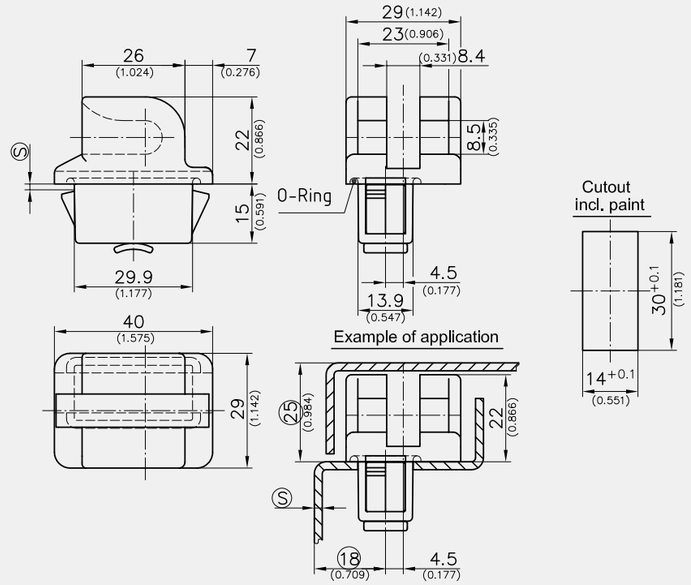


Advantages

- Dual hook with DIRAK-SNAP-Technology for system dimension (18) and bending (25).
- Tool-less installation.
- Closed version.
- For changing the door from the right to the left side or vice versa, a RH or LH version is needed.
- Installation by a simple push into the cutout.
- IP65 according by DIN EN 60529.

Materials

- **Dual hook:** zinc die, black
- **Snap wedges:** sintered metal, plated
- **O-Ring:** NBR/ Perbunan



Dual hook

Part Number	Version	Clamping range	Cutout	Installation type
408-9104.00-00015	RH	1.2 - 1.7 mm	30x14	tool-less
408-9104.00-00020	RH	1.7 - 2.2 mm	30x14	tool-less
408-9104.00-00025	RH	2.2 - 2.7 mm	30x14	tool-less
408-9104.00-00030	RH	2.7 - 3.2 mm	30x14	tool-less
408-9105.00-00015	LH	1.2 - 1.7 mm	30x14	tool-less
408-9105.00-00020	LH	1.7 - 2.2 mm	30x14	tool-less
408-9105.00-00025	LH	2.2 - 2.7 mm	30x14	tool-less
408-9105.00-00030	LH	2.7 - 3.2 mm	30x14	tool-less

Accessories
292-0701.15-01530 **Reinforcement plate for cutout**
292-0402.00-03014 **Cutout-cover**
292-0301.15-00000 **Tool for uninstallation**
292-0306.80-02530 **Tool for uninstallation**
200-1005.00-02420 **O-ring 24 x 2.0mm**

DST Flat Rods FS variable

[3-171DST]



Advantages

- For product system 3-150DST.
- The rod end with five holes has to mounted on the swing-handles of product system 3-150DST.
- Flat rod a) with brass rollers for use outside of the sealed area.
- The rollers snap into the dual hooks of product system 3-912, 3-910DST.
- Flat rod b) for use inside of the sealed area.
- For ramp-shoe product system 3-162.
- Rod guides see product systems 3-910 and 3-911.

Materials

- **Flat rods:** steel, zinc plated
- **Rollers:** brass

Remarks

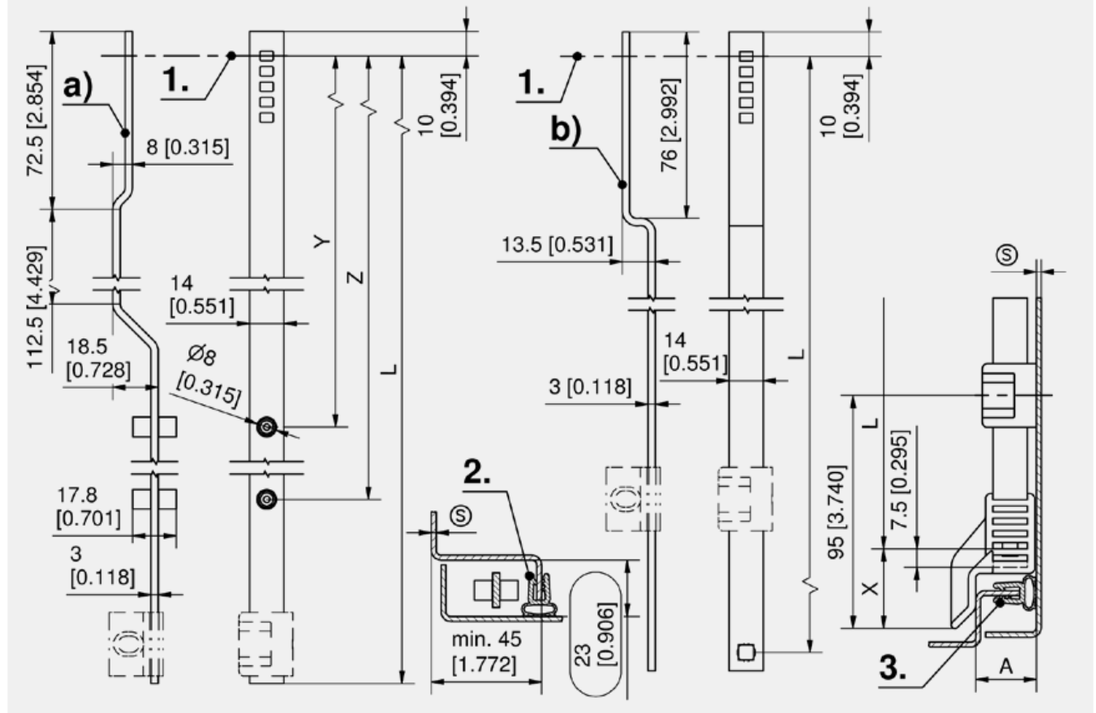
1. Middle of the lock
2. View outside of the sealed area
3. View inside of the sealed area

For part numbers please contact DIRAK

Please provide the following data

For outside of the sealed area: dimensions L, Y and Z

For inside of the sealed area: dimension L (X=3-161)



Flat Rods

	Part Number	Version	Rod dimension WxH
a)	208-9837.00-Lxxmm	with rollers	14 x 3 mm
b)	208-1063.15-Lxxmm	for ramp-shoe	14 x 3 mm

Profile-Cylinder DIN 18252

[2-140]

RoHS WEEE



Advantages

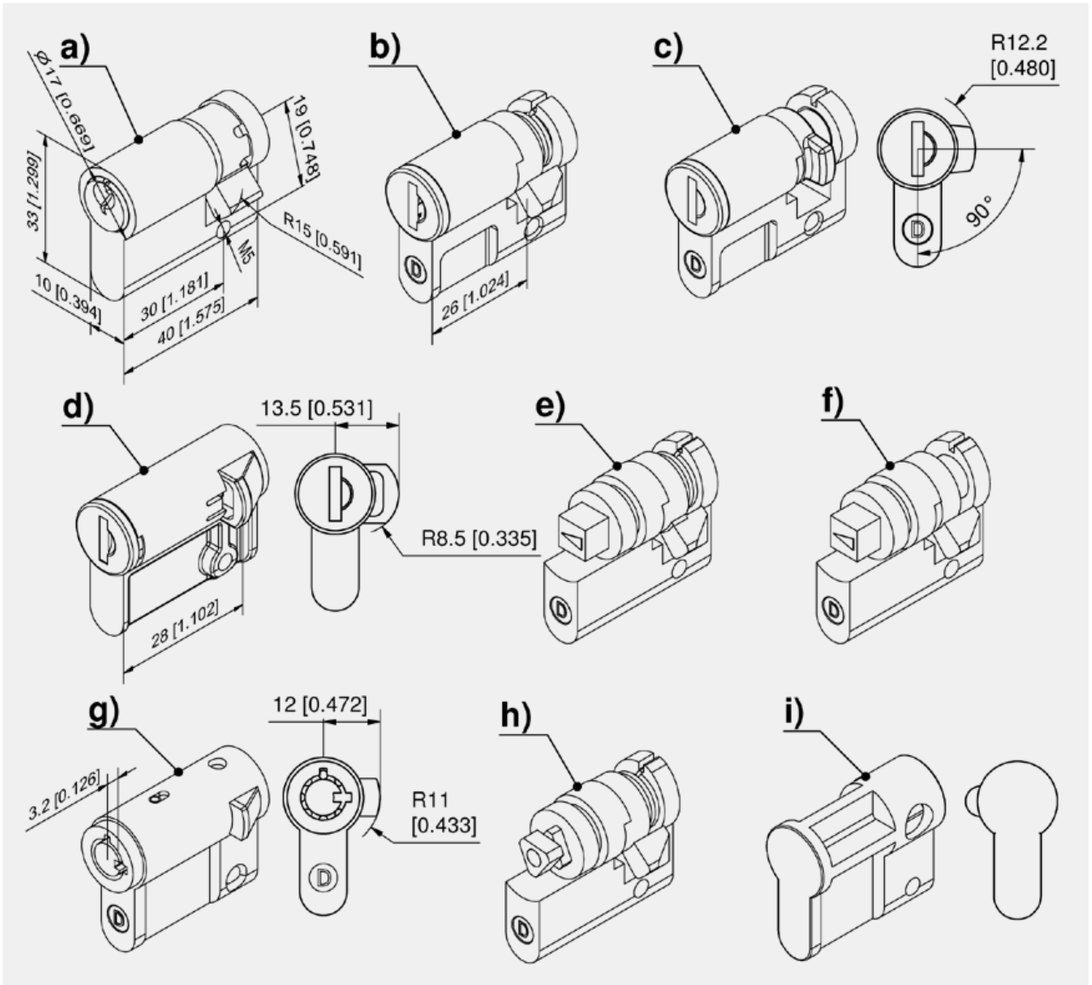
- **a):** Clip-in cam 8x45° adjustable. Key removable in closed status only.
- **b):** Spring-loaded clip-in cam. Dust-shutter.
- **c):** Cam has 90° stroke, **not** clip-in. Cam length is 12.2mm/0.480. Dust-shutter.
- **d)** Clip-in cam. Dust-shutter.
- **e):** Spring-loaded clip-in cam.
- **f):** Cam **not** clip-in, 360° stroke.
- **g):** Radial pin tumbler cylinder, clip-in cam.
- **h):** Insert triangular 8, the first 4 mm of the insert are free rotating. Spring-loaded clip-in cam.
- **i):** Polyamide-plug with and without spring-loaded ball.

Materials

- **a):** brass, nickel plated
- **b), c), e) f) and g):** zinc die, chrome plated
- **i) and d):** PA, black
- **Barrel cylinder:** zinc die
- **Dust-shutter:** stainless steel

Remarks

Versions b), c), d) and g) are supplied with 2, Version a) with 3 keys.



Profile-cylinder with pin tumbler cylinder, DIN 18252, 8 x 45° adjustable

	Part Number	Name	Latching type	Clip-in
a)	211-9003.00-00000	DIRAK Profile-cylinder	keyed alike	No
a)	211-9004.00-00000	DIRAK Profile-cylinder	keyed different	No

Profile-cylinder with cylinder barrel

	Part Number	Name	Latching type	Closing stroke	Clip-in
b)	211-9101.00-00000	Profile-Cylinder	keyed different		Yes
b)	211-9102.00-00000	Profile-Cylinder	keyed alike DIRAK 1333		Yes
b)	511-9102.00-00000	Profile-Cylinder	keyed alike DS200		Yes
c)	211-9301.00-00000	Profile-Cylinder	keyed different	90°	No
c)	211-9302.00-00000	Profile-Cylinder	keyed alike DIRAK 1333	90°	No
c)	511-9302.00-00000	Profile-Cylinder	keyed alike DS200	90°	No

Profile-cylinder with cylinder barrel, PA housing, clip-in

	Part Number	Name	Latching type	Clip-in
d)	211-9113.00-00000	Snap Profile-cylinder	keyed alike DIRAK 1333	Yes
d)	211-9115.00-00000	Snap Profile-cylinder	keyed different (dual entry)	Yes

Profile-cylinder with insert

	Part Number	Name	Insert	Closing stroke	Clip-in
e)	211-9202.00-00000	Profile-cylinder with insert	Square 6mm		Yes
e)	211-9203.00-00000	Profile-cylinder with insert	Square 7mm		Yes
e)	211-9204.00-00000	Profile-cylinder with insert	Square 8mm		Yes
e)	211-9205.00-00000	Profile-cylinder with insert	Square 8mm, slotted		Yes
e)	211-9206.00-00000	Profile-cylinder with insert	Triangular 7mm		Yes
e)	211-9207.00-00000	Profile-cylinder with insert	Triangular 8mm		Yes
e)	211-9208.00-00000	Profile-cylinder with insert	Double bit 3mm pin		Yes
e)	211-9209.00-00000	Profile-cylinder with insert	Double bit 5mm pin		Yes
e)	211-9210.00-00000	Profile-cylinder with insert	Triangular 6.5mm CNOMO		Yes
e)	211-9211.00-00000	Profile-cylinder with insert	Socket hex. 10mm		Yes
e)	211-9212.00-00000	Profile-cylinder with insert	Slotted 2x4mm		Yes
e)	211-9213.00-00000	Profile-cylinder with insert	Daimler Benz type		Yes
e)	211-9214.00-00000	Profile-cylinder with insert	Crown type		Yes
e)	211-9215.00-00000	Profile-cylinder with insert	Square socket 6mm		Yes
e)	211-9216.00-00000	Profile-cylinder with insert	Square socket 7mm		Yes
e)	211-9217.00-00000	Profile-cylinder with insert	Square socket 8mm		Yes
e)	211-9218.00-00000	Profile-cylinder with insert	Slotted recessed coinproof		Yes
e)	211-9219.00-00000	Profile-cylinder with insert	Crescent czech		Yes
e)	211-9220.00-00000	Profile-cylinder with insert	Hex. Belcore 7/16"		Yes
f)	211-9203.00-00001	Profile-cylinder with insert	Square 7mm	360°	No
f)	211-9204.00-00001	Profile-cylinder with insert	Square 8mm	360°	No
f)	211-9206.00-00001	Profile-cylinder with insert	Triangular 7mm	360°	No
f)	211-9207.00-00001	Profile-cylinder with insert	Triangular 8mm	360°	No
f)	211-9208.00-00001	Profile-cylinder with insert	Double bit 3mm pin	360°	No
f)	211-9209.00-00001	Profile-cylinder with insert	Double bit 5mm pin	360°	No
f)	211-9212.00-00001	Profile-cylinder with insert	Slotted 2x4mm	360°	No

Profile-cylinder with radial pin tumbler cylinder

	Part Number	Name	Locking	Latching type	Clip-in
g)	211-9106.00-00000	Profile-cylinder with radial pin tumbler cylinder	Push button	keyed different	Yes
g)	211-9107.00-00000	Profile-cylinder with radial pin tumbler cylinder	Push button	keyed alike DIRAK D0205	Yes

Profile-cylinder with security insert triangular 8mm

	Part Number	Name	Insert	Clip-in
h)	211-9244.00-00000	Profile-Cylinder	Security insert with free rotating 8mm triangular front part	Yes

Profile-cylinder with blind plug

	Part Number	Name	Clip-in
i)	211-0401.03-00000	Blind plug without spring-loaded ball	No
i)	211-9201.00-00000	Blind plug with spring-loaded ball	Yes

Accessories
6-100 **Key**

Profile-Cylinder Stainless Steel

[7-069]

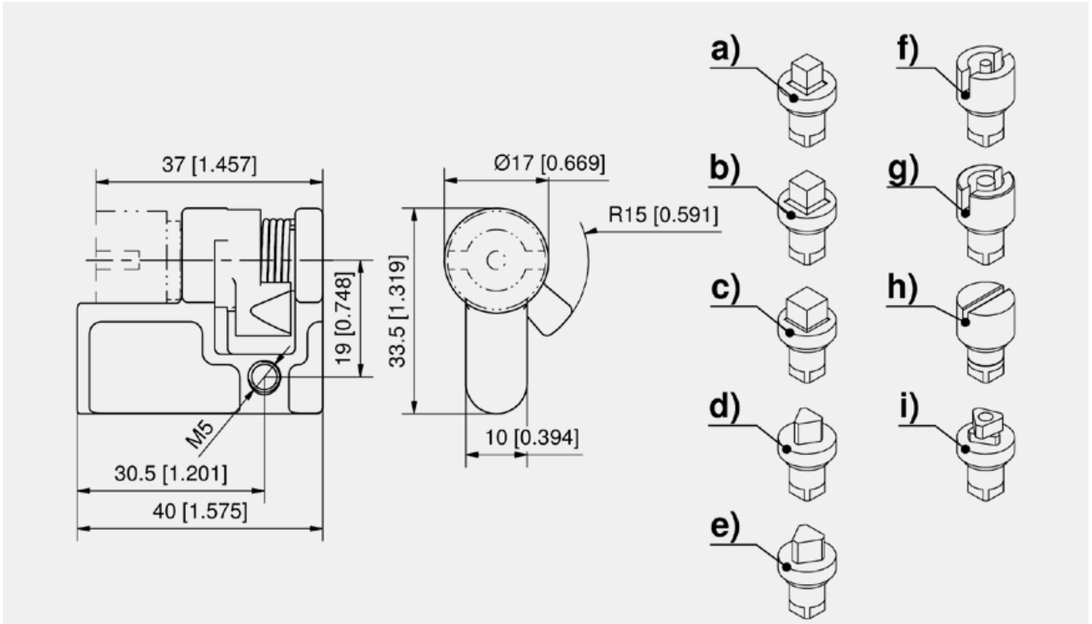


Advantages

- Profile-cylinder with insert for swinghandles see product system 7-060 and 7-066.
- 40mm (1.575) length
- Spring loaded clip-in cam.
- i) Security insert with free rotating 8mm triangular front part. The free rotating front part increases the security because the insert can only be opened with the suitable triangular key.

Materials

- **Housing, cam and insert:** stainless steel AISI 316



Profile-cylinder with insert

	Part Number	Name	Insert
a)	211-9226.00-00000	Profile-Cylinder	Square 6mm
b)	211-9227.00-00000	Profile-Cylinder	Square 7mm
c)	211-9228.00-00000	Profile-Cylinder	Square 8mm
d)	211-9229.00-00000	Profile-Cylinder	Triangular 7mm
e)	211-9230.00-00000	Profile-Cylinder	Triangular 8mm
f)	211-9231.00-00000	Profile-Cylinder	Double bit 3mm pin
g)	211-9232.00-00000	Profile-Cylinder	Double bit 5mm pin
h)	211-9233.00-00000	Profile-Cylinder	Slotted 2x4mm
i)	211-9242.00-00000	Profile-Cylinder	Security insert with free rotating 8mm triangular front part

Accessories
6-100 **Key**

Multi-Point Systems
Accessories



Compression Rod Latch RS / FS

See page 346

Latches





Robust and flexible.

The robust slam latch provides design flexibility with its multiple profile cylinder mounting positions.

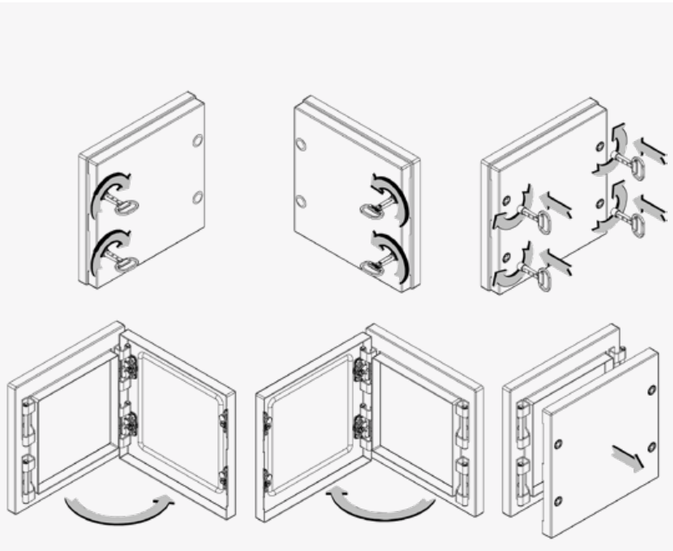
Page 424–425



Install entirely from the front.

This trigger latch design is installed entirely from the front, easing assembly and reducing manufacturing times.

Page 452



Latch or hinge? Both!

The flush-mounted latch with integrated hinge function is a lock and hinge all in one product and enables the door to be easily removed or opened from either side.

Page 104



DIRAK-SNAP-Technology.

Simple. Secure.



Two solutions in one.

The Locking Pins are multifunctional in their use – they can function as a pin, a catch, or a hinge and enable the door to be removed without the use of tools.

Page 400

Vibration-resistant.

This Toggle Latch is secured even in the event of shock or vibration and utilizes a simple sliding button to unlock it.

Page 406

Latches



Latches

Slam latch

Page: **413, 415-420**

Snap lock

Page: **397-399, 498-409, 421, 424-427**

With dead bolt

Page: **422, 428, 468-470**

With compression

Page: **410–411, 430–454, 461**

With cylinder barrel

Page: **398–399, 416–420, 446–452, 456–457**

For profile cylinder

Page: **423–441**

For insert

Page: **396, 414, 426, 442–447, 456-459**

For padlock

Page: **413, 454–455, 466–467**

For sliding doors

Page: **472–474**

Overview



396 Quick Release Fastener [1-030]



397 Snap-Lock [1-060]



398 Snap-Lock L30 [1-500]



399 Snap-Lock Pr20.1 [1-501]



400 Locking Pin [6-211]



401 Locking Pin with Handle [6-210]



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405 Over Center Toggle Latch Stainless Steel [7-320]



406 Over Center Toggle Latch Stainless Steel [7-321.01]



407 Over Center Toggle Latch Stainless Steel [7-321.02]



408 Pull Latch Handle [1-068]



409 DST Pull Latch Handle [1-069DST]



410 DST Compression Latch [1-070DST]



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412 Dual Ball Catch [6-130]



413 Slam Lock [6-120]



414 Flush Mounted Trap-Door Latch [6-1381]



415 Slam Latch Stainless Steel [7-330]



416 DST Pullhandle with Slam-Hook PrC [2-060DST]



417 Slam Latch [6-127]



418 Slam Latch [6-150]



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420 DST Slam Latch PrA [6-125DST]



421 Snap-Lock [6-122]



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423 Polyamide Lock Cover [6-115]



424 Slam Latch for Profile-Cylinder [6-111]



425 Slam Latch for two Profile-Cylinder [6-111.01]



426 Slam Latch for Insert [6-111.02]



427 Lock Support for Slam Latch [6-111.03]



428 Dead Bolt Lock [6-110]



430 Compression Latch PHZ [6-500]



432 2-Point Latch PHZ, vertical [6-501]



434 2-Point Latch PHZ, horizontal [6-501.01]



436 Compression Latch PHZ with Lock Cover [6-502]



438 2-Point Latch PHZ with Lock Cover [6-503]



440 2-Point Latch PHZ with Lock Cover [6-503.01]



442 Compression Latch with Insert [6-504]



444 Latching device [6-510]



446 Compression Lever Latch [6-160]



448 Compression Lever Latch [6-160.01]



450 Compression Lever Latch PA [6-162]



451 Compression Lever Latch [6-167]



452 Compression Latch PA [6-166]



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456 Heavy Duty Latch System for HVAC applications [6-280]



458 Handle inside, for heavy duty latch system [6-280.01]



459 Shafts for Heavy Duty Latches [6-280.02]



460 Cams for Heavy Duty Latches [6-280.03]



461 Compression Cam for Heavy Duty Latches [6-280.04]



462 Bezels for heavy duty latches [6-280.05]



464 Bridge Clamp [6-140]



465 Compression Lever Latch [6-270]



466 L-Handle M10 for Padlock Stainless Steel [7-073.01]



467 L-Handle 3/8“ for Padlock Stainless Steel [7-073.02]



468 Locking Bar System □10 [6-320.01]



469 Locking Bar System □13 [6-320.02]



470 Locking Bar System □16 [6-320.03]



472 Machine Handle for Sliding Doors [6-1680]



474 Sliding Door Latch [1-415]



475 Pull and Lock Hook [1-250]

Quick Release Fastener

[1-030]

IP 65

RoHS WEEE



Advantages

- Quick release Fastener for fastening side panels etc.
- The fastener consists of two basic components.
- IP65 according to DIN EN 60529 by using O-ring 220-0601.

Materials

a)

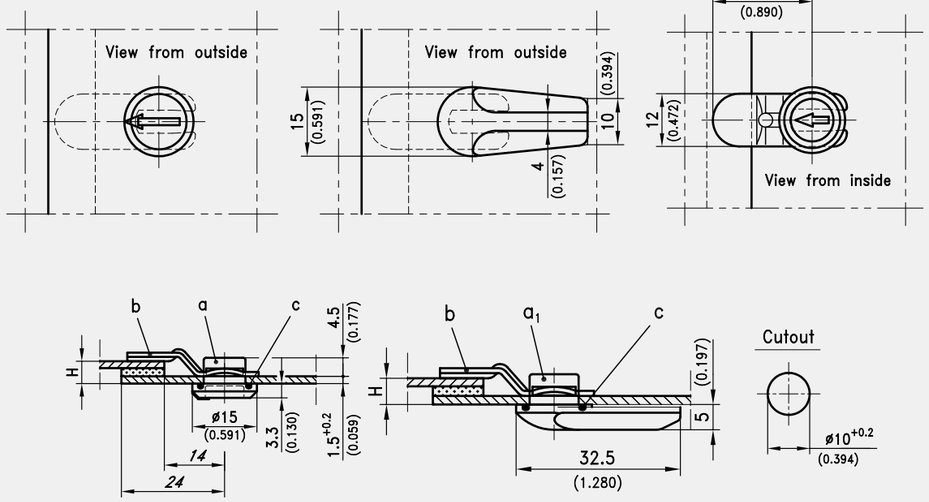
- **Stud:** PA black or grey RAL 7032 or Durethan BKV 30 N1 matt black

a1)

- **Wing:** PA

b)

- **Cam:** spring steel, zinc plated



Quick release fastener, stud

	Part Number	Version	Installation type
a)	246-0103.03-00000	PA, black	tool-less
a)	246-0103.06-07032	PA grey RAL 7032	tool-less
a)	246-0103.50-00000	Durethan BKV 30 N1, black matt	tool-less

Quick release fastener, wing

	Part Number	Version	Installation type
a1)	246-0104.03-00000	PA, black	tool-less
a1)	246-0104.06-07032	PA grey RAL 7032	tool-less

Accessories
c) 220-0601.00-00000 **O-ring 9.1 x 1.6mm**
b) 246-0202.00-00000 **Cam H 3.5mm**
b) 246-0204.00-00000 **Cam H 5mm**

Snap-Lock

[1-060]

RoHS WEEE



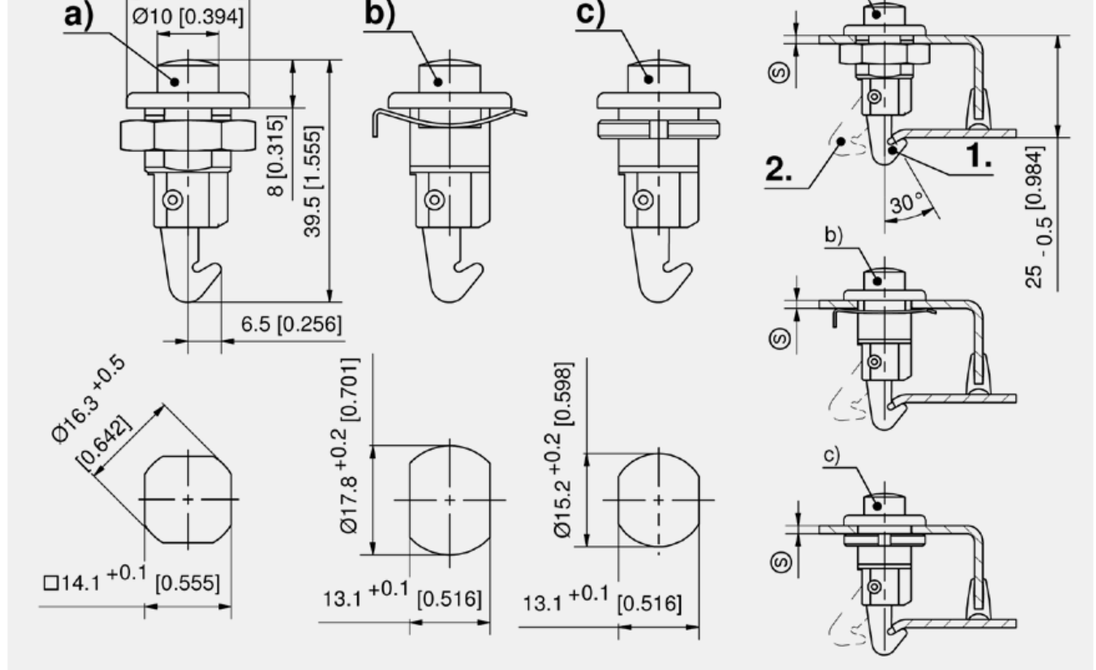
with slam function

Advantages

- Snap/Push lock with slam function,
- Nut or clip fixing.
- Released by pushing.
- Larger lockable version see product system 1-500 or 1-501.

Materials

- **Snap-lock:** zinc die, chrome plated



Snap-Lock

	Part Number	Fastening type	Cutout	Door-thickness
a)	252-9001.00-00000	nut	□ 14,1mm	6.5 mm
b)	252-9003.00-00000	fitting spring	17.8 x 13.1mm	2.2 mm
c)	252-9004.00-00000	nut	15.2 x 13.1mm	2.2 mm

Accessories
a) 154 220-1301.00-00000 **Finger pull**

Snap-Lock L30

[1-500]

RoHS WEEE



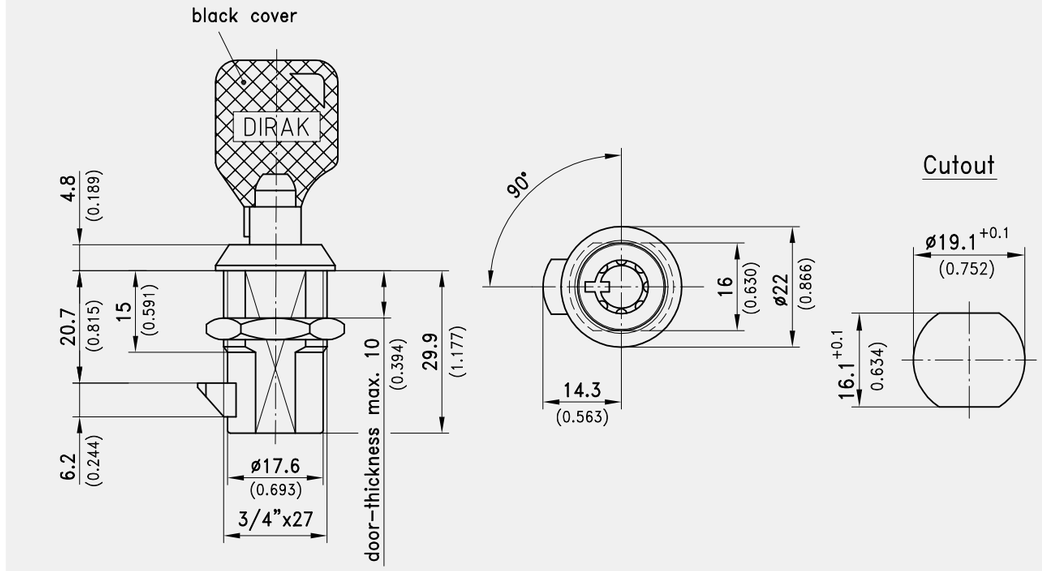
length 30

Advantages

- The spring loaded cam of this snap-lock is operated by the key.
- Lock is supplied with nut and wide stabilizing washer underneath nut.
- All locks supplied with two keys.

Materials

- **Snap-Lock:** zinc die, chrome plated
- **Washer:** steel, zinc plated
- **Nut:** steel, zinc plated



Snap-Lock

Part Number	Latching type	Cutout	Door-thickness
264-9102.00-00000	keyed alike DIRAK D0205	16.1 x 19.1mm	10 mm
264-9101.00-00000	keyed different	16.1 x 19.1mm	10 mm

Snap-Lock Pr20.1

[1-501]



Advantages

- Snap-lock in length 31.5mm and 36.5mm.
- **Version a):** The spring loaded cam is operated by the key.
- **Version b):** The spring loaded cam is operated by a lockable push-button.
- **Version c):** The spring loaded cam is operated by a push-button.
- All locks supplied with two keys.
- Grounding by single-sided grounding nut.

Materials

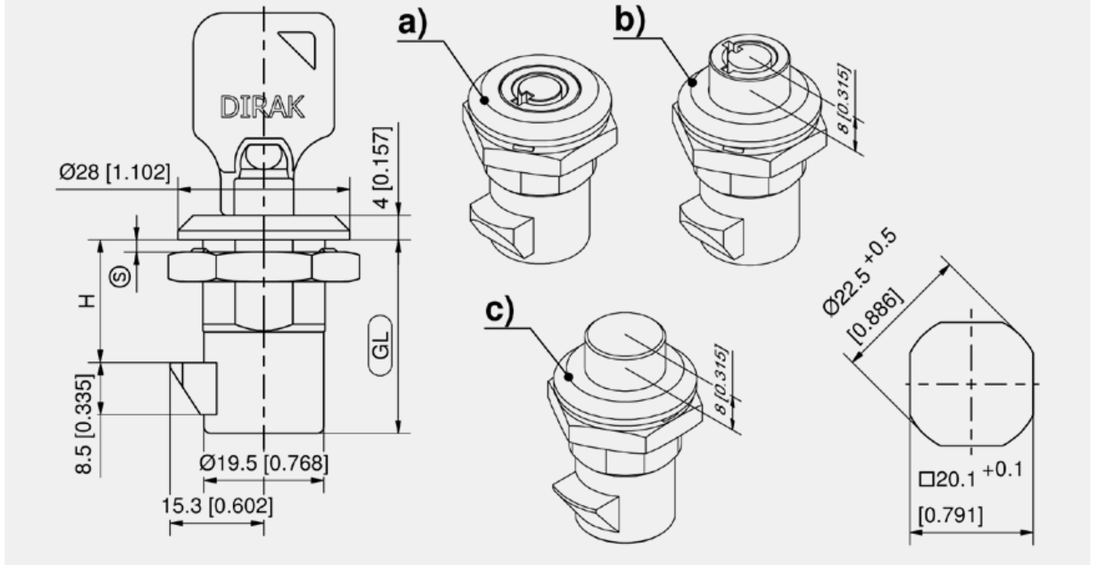
- **Snap-Lock:** zinc die, chrome plated
- **Grounding Nut:** zinc die

Remarks

By using a finger pull the dimensions Ts and H decreases by **2mm!**

20

RoHS WEEE



Snap-Lock

	Part Number	Latching type	Housing length	H-dimension	Door-thickness	Installation type
a)	264-9001.00-00000	keyed different	31.5 mm	20 mm	10 mm	screw-on
a)	264-9002.00-00000	keyed alike DIRAK D0205	31.5 mm	20 mm	10 mm	screw-on
a)	264-9003.00-00000	keyed different	36.5 mm	25 mm	15 mm	screw-on
a)	264-9004.00-00000	keyed alike DIRAK D0205	36.5 mm	25 mm	15 mm	screw-on
b)	264-9005.00-00000	keyed different	31.5 mm	20 mm	10 mm	screw-on
b)	264-9006.00-00000	keyed alike DIRAK D0205	31.5 mm	20 mm	10 mm	screw-on
b)	264-9007.00-00000	keyed different	36.5 mm	25 mm	15 mm	screw-on
b)	264-9008.00-00000	keyed alike DIRAK D0205	36.5 mm	25 mm	15 mm	screw-on
c)	264-9009.00-00000	Push button	31.5 mm	20 mm	10 mm	screw-on

	Accessories
175	200-4703.03-00000 **Finger pull Ø28**

Locking Pin

[6-211]



Advantages

- Locking pin with spring-loaded handle.
- Installed using a simple push into the cutout.
- Allows locking of covers and flaps in defined positions.
- Also usable as hinge.
- H depending on clamping range (s) 9.6 - 5.6 mm.
- Flexible use for material thicknesses from 1-13mm.

Materials

- **Pin:** steel, zinc plated
- **Handle:** PA, green
- **Spacer:** PA, black

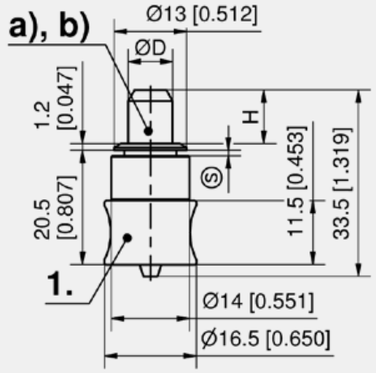
Remarks

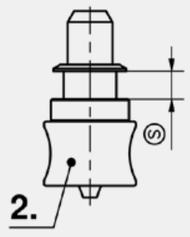
Spacer 8mm and 4mm included in scope of delivery.

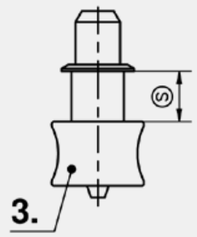
1. Assembled product with spacer 8mm (clamping range (s) 1 - 5mm).

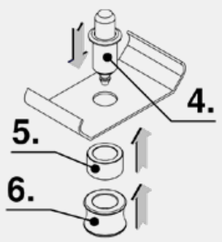
2. Assembled product with spacer 4mm (clamping rage (s) 5 - 9mm).

3. Assembled product **without** spacer (clamping rage (s) 9 - 13mm).



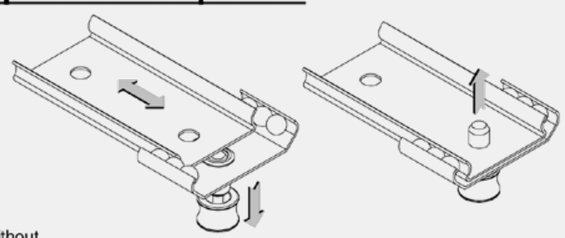






To install, the locking pin 4. is simply pushed into the cutout without the use of tools or hardware. The spacer 5. (if needed) and the handle 6. will be put over the housing and snap into the groove of the pin captively.

Operation sequence



To lock, the spring-loaded handle is released.
To loosen, the spring-loaded handle is pulled out.

Locking Pin with Handle

Part Number	D1	Cutout pin	Cutout housing	1. Clamping range (S) with 8mm spacer	2. Clamping range (S) with 4mm spacer	3. Clamping range (S) without spacer	H depending on clamping range (S)
245-9305.00-00000	6.0 mm	Ø 6.1 - 0.1 mm	Ø 9.5 - 0.1 mm	1 - 5 mm	5 - 9 mm	9 - 13 mm	Ø 9.6 - 5.6 mm
245-9306.00-00000	8.0 mm	Ø 8.0 - 0.1 mm	Ø 9.5 - 0.1 mm	1 - 5 mm	5 - 9 mm	9 - 13 mm	Ø 9.6 - 5.6 mm

Locking Pin with Handle

[6-210]

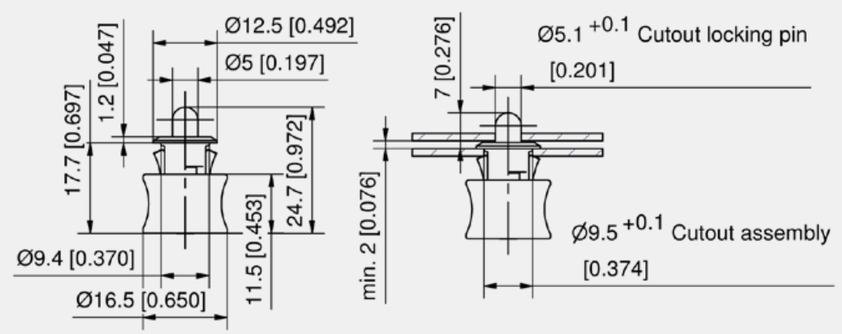


Advantages

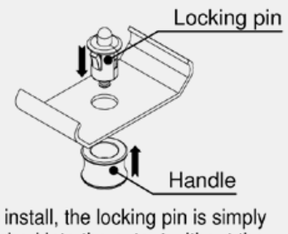
- Locking pin with spring-loaded handle.
- Installed using a simple push into the cutout.
- Can be used as a locking device for drawers.
- Large, ergonomically designed handle for ease of use.
- Also available as concealed hinge, see product-system 4-393.

Materials

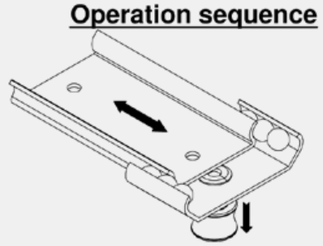
- **Housing:** PA, black
- **Handle:** PA, green
- **Pin:** steel, zinc plated
- **Spring:** steel, zinc plated



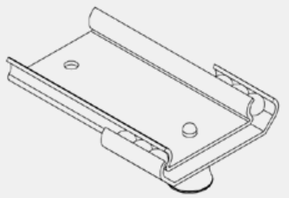
Operation sequence



To install, the locking pin is simply pushed into the cutout without the use of tools or hardware. The handle slides over the housing and secures permanently into the groove of the pin.



To lock, the spring-loaded handle is released. To loosen, the spring-loaded handle is pulled out.



The pin catches in the pre-punched holes to lock in place.

Locking Pin with Handle

Part Number	Clamping range	Installation type
245-9304.00-00000	1.4 - 1.6 mm	tool-less

Pin Hinge Pr02 120°

[4-394]



Advantages

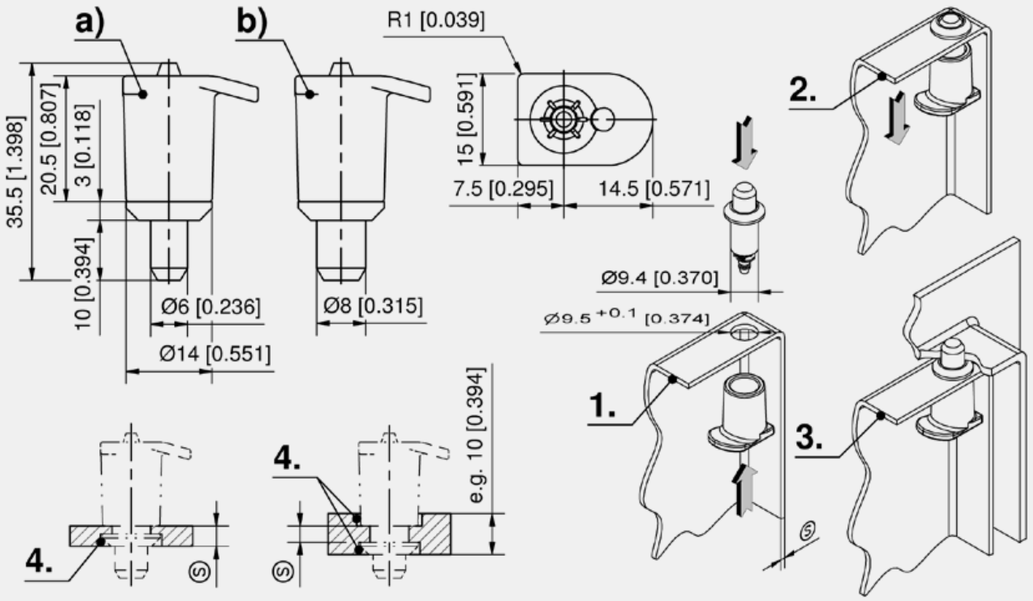
- Concealed hinge with spring-loaded handle.
- Flexible use for material thicknesses up to 4mm.
- The spring loaded pin allows for an easy and quick installation and removal of the door.
- Installed using a simple push into the cutout.
- Usable also as locking pin.
- Available with pin diameter of 6mm or 8mm.
- On request also available with another handle (see 6-211).

Materials

- **Pin:** steel, zinc plated
- **Handle:** PA, green
- **Spacer:** PA, black

Remarks

1. Assembled without tools by pressing the locking pin into the handle.
2. Disassembling the door.
3. Door installed.
4. By reducing the material in the cutout, the distance between the two components can be adjusted.



Pin Hinge

	Part Number	Pin diameter	Cutout pin	Cutout housing	Clamping range	Packaging unit
a)	245-9312.00-00000	6 mm	Ø 6.1 + 0.1mm	Ø 9.5 + 0.1 mm	0 - 4 mm	50 pcs.
b)	245-9313.00-00000	8 mm	Ø 8.1 + 0.1mm	Ø 9.5 + 0.1 mm	0 - 4 mm	50 pcs.

Adjustable Clamping Levers

[6-141]



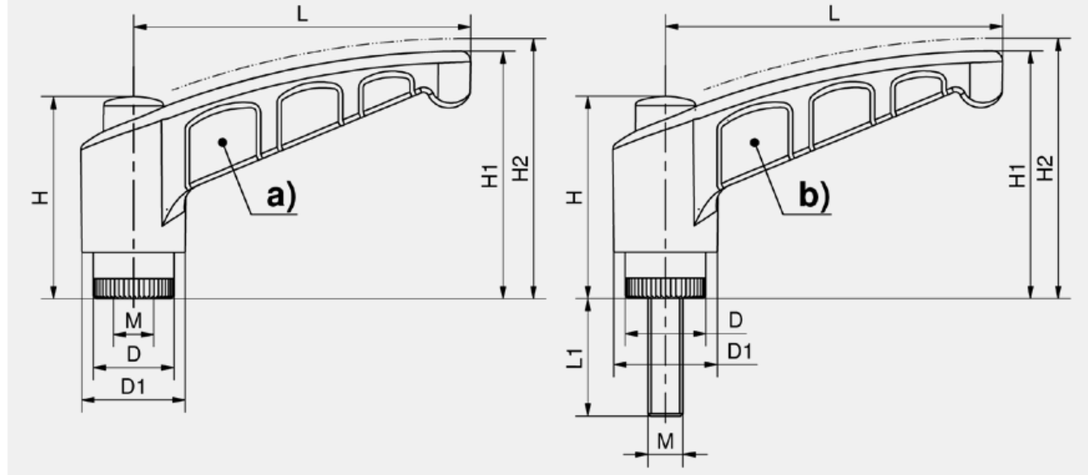
Secure and tool-less clamping of components

Advantages

- Perfect adjustment option to reach the best clamping position by pressing down the push button.
- Automatic reset of the handle after releasing the button.

Materials

- **Handle:** PA, black
- **Bush:** brass
- **Stud:** steel, zinc plated



Adjustable clamping lever with internal thread

	Part Number	D	D1	h	H1	H2	L	M
a)	214-9101.00-00000	12 mm	15 mm	29 mm	34 mm	37 mm	45 mm	M5
a)	214-9102.00-00000	12 mm	15 mm	29 mm	34 mm	37 mm	45 mm	M6
a)	214-9103.00-00000	16 mm	20 mm	36 mm	45 mm	48 mm	45 mm	M8
a)	214-9104.00-00000	19 mm	23 mm	46 mm	56 mm	59 mm	80 mm	M10

Adjustable clamping lever with threaded stud

	Part Number	D	D1	h	H1	H2	L	L1	M
b)	214-9101.00-00510	12 mm	15 mm	29 mm	34 mm	37 mm	45 mm	10 mm	M5
b)	214-9102.00-00620	12 mm	15 mm	29 mm	34 mm	37 mm	45 mm	20 mm	M6
b)	214-9102.00-00625	12 mm	15 mm	29 mm	34 mm	37 mm	45 mm	25 mm	M6
b)	214-9103.00-00820	16 mm	20 mm	36 mm	45 mm	48 mm	65 mm	20 mm	M8
b)	214-9103.00-00825	16 mm	25 mm	36 mm	45 mm	48 mm	65 mm	25 mm	M8
b)	214-9103.00-00830	16 mm	20 mm	36 mm	45 mm	48 mm	65 mm	30 mm	M8
b)	214-9104.00-01020	19 mm	23 mm	46 mm	56 mm	59 mm	80 mm	20 mm	M10
b)	214-9104.00-01025	19 mm	23 mm	46 mm	56 mm	59 mm	80 mm	25 mm	M10
b)	214-9104.00-01030	19 mm	23 mm	46 mm	56 mm	59 mm	80 mm	30 mm	M10



Over Center Toggle Latch Stainless Steel

See page 406

Over Center Toggle Latch Stainless Steel [7-320]



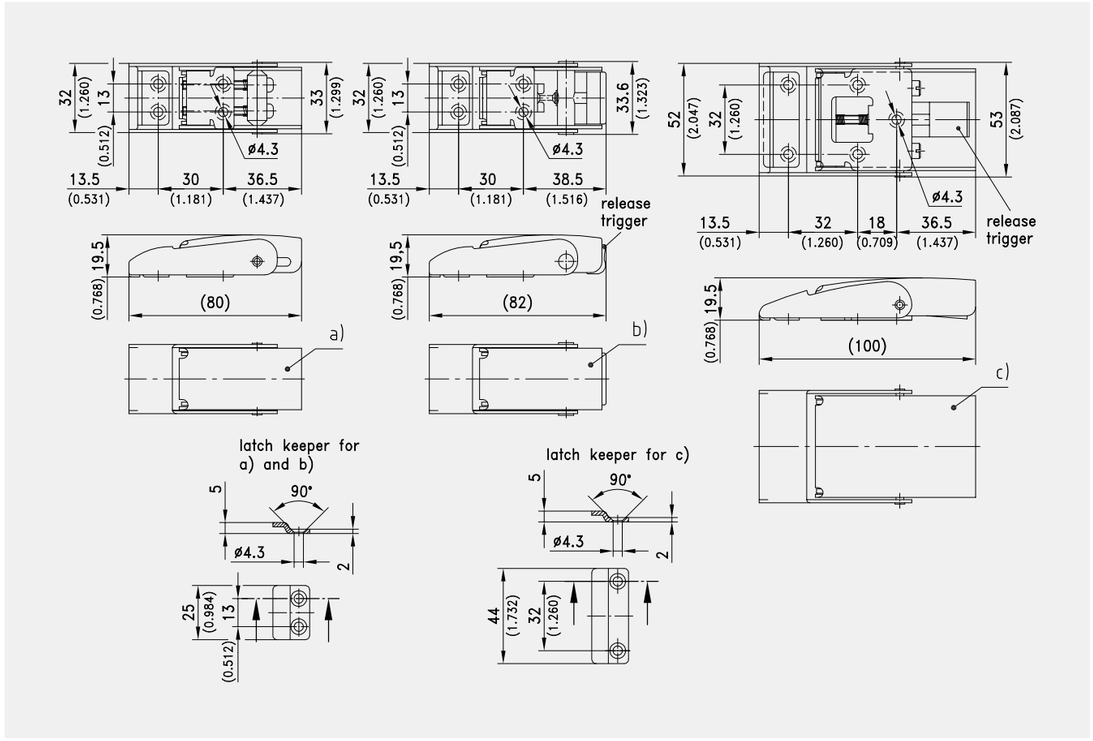
Advantages

- The versions 259-9101 and 259-9102 have an additional lock mechanism/release.
- The keepers are included.
- The surface of the latches is satin polished.

Materials

- **Over center toggle latch:** stainless steel AISI 304

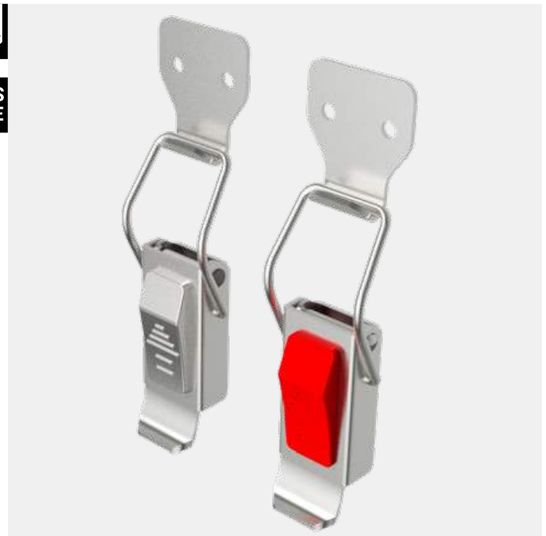
RoHS WEEE



Over center toggle latch with keeper

	Part Number	Dimension	Push button release
a)	259-9001.00-00000	80x32x19,5	No
b)	259-9101.00-00000	82x32x19,5	Yes
c)	259-9102.00-00000	100x52x19,5	Yes

Over Center Toggle Latch Stainless Steel [7-321.01]

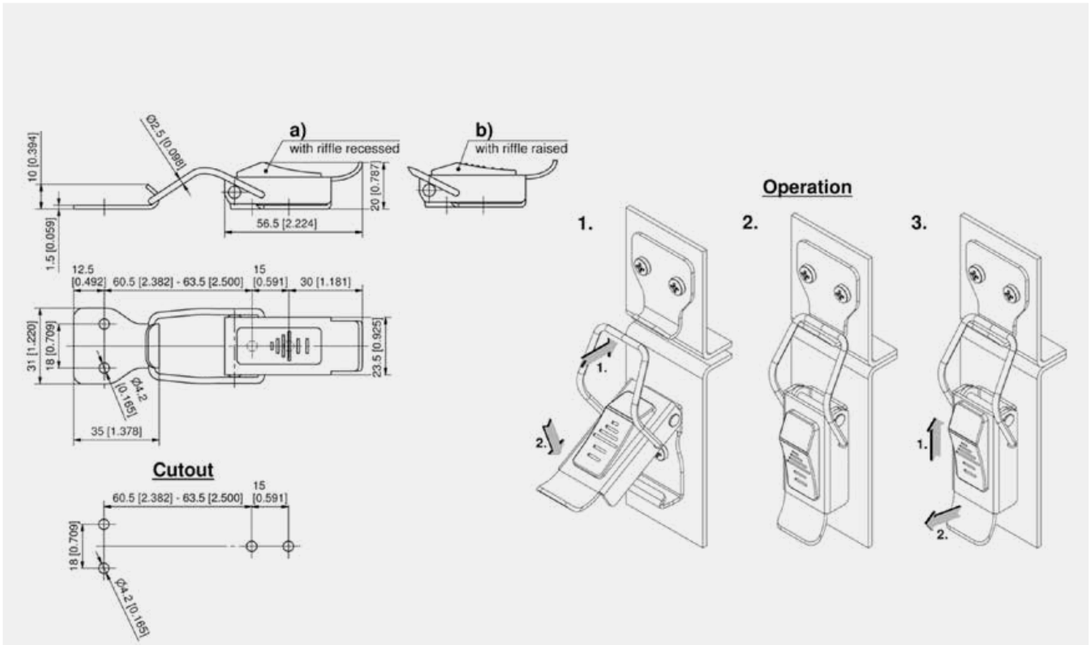


Advantages

- Secure tightening and locking of two components.
- Clicks into place securely.
- Slider for releasing.
- Vibration-proof.
- The catch is included in the scope of delivery.
- Version a) with recessed riffle.
- Version b) with raised riffle.

Materials

- **Toggle-Latch:** stainless steel AISI 304
- **Release slider:** stainless steel AISI 304 or ABS, red



Over Center Toggle Latch

	Part Number	Version
a)	350-2080.00-00000	with stainless steel release slider
b)	350-2080.00-00001	with ABS release slider

Over Center Toggle Latch Stainless Steel [7-321.02]

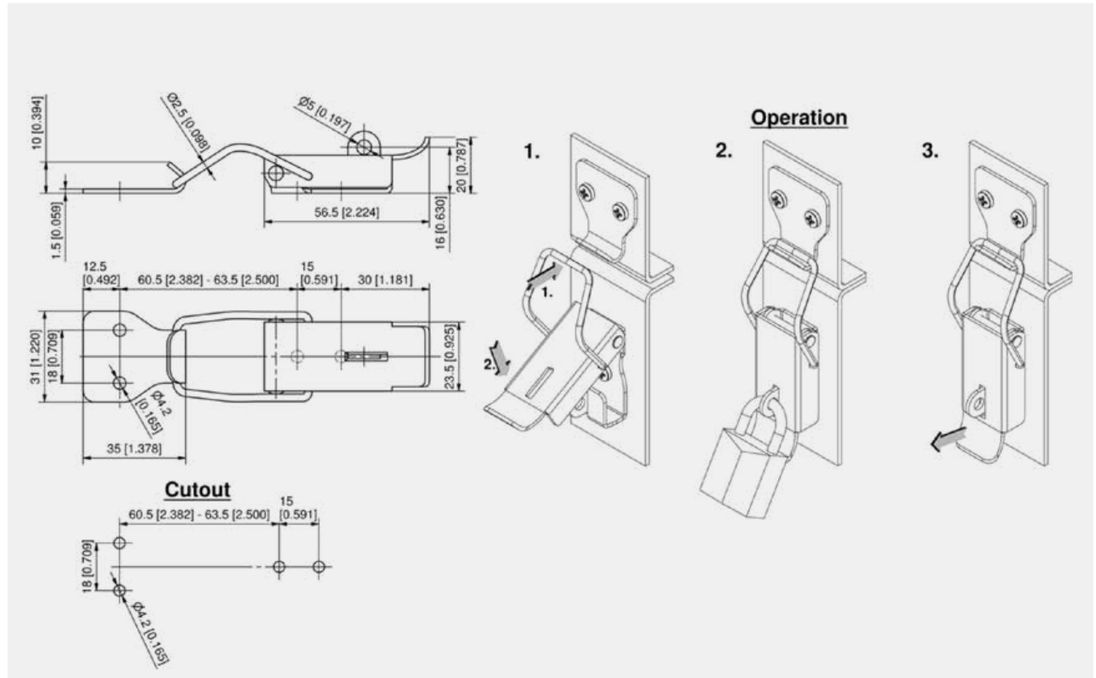


Advantages

- Secure tightening and locking of two components.
- With eyelet for padlock.
- The catch is included in the scope of delivery.

Materials

- **Toggle-Latch:** stainless steel AISI 304



Over Center Toggle Latch

Part Number	Version
350-2080.00-00002	with eyelet for padlock

Pull Latch Handle

[1-068]



Advantages

- The Pull latch handle is used by 19" engineering for locking insertions.
- The completely pre-assembled unit is fastened by a countersunk screw M4.
- LH and RH application.
- When inserting the plug-in unit the free running slam hook latches into the appropriate cutout and locks the plug-in unit with the frame.
- Drawing at the handle unlocks the plug-in unit and it can be pulled out by the handle.
- The countersunk screw is not included.

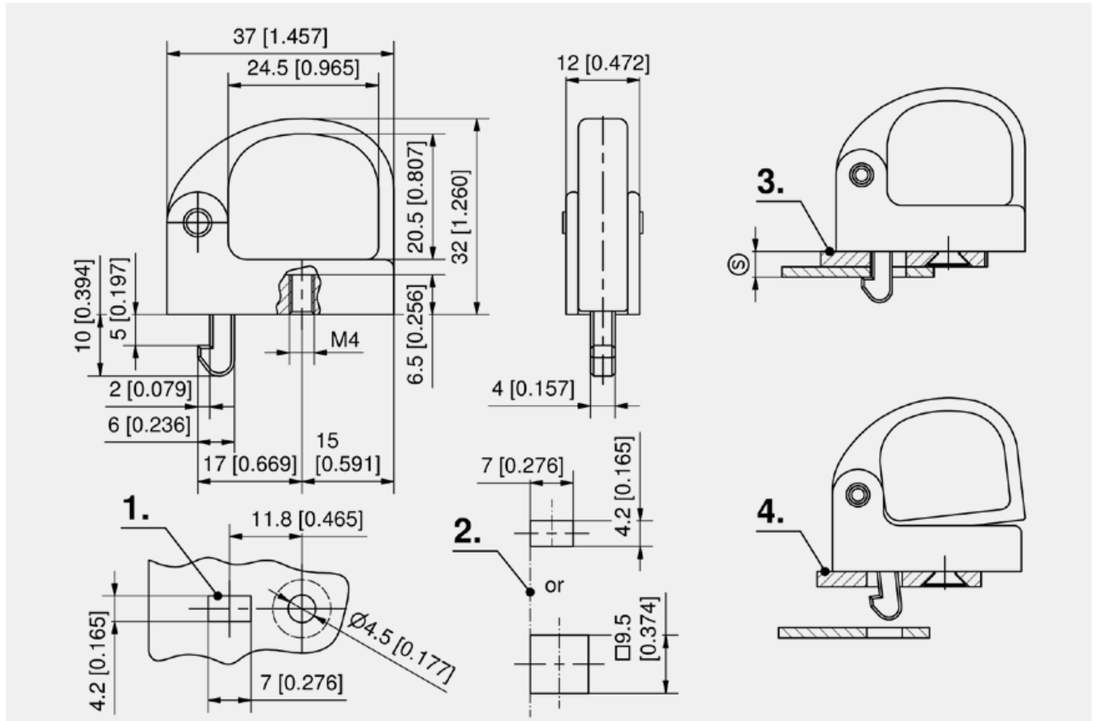
Materials

- **Housing and handle:** zinc die, matt chrome plated
- **Spring for insert:** spring steel
- **Hook:** sintered steel, zinc plated

Remarks

ATTENTION: (S) max. 5mm [0.197]

1. cutout handle
2. cutout for locking hole
3. locked
4. unlocked



Pull Latch Handle

Part Number	Installation type
280-9101.00-00000	screw-on

DST Pull Latch Handle

[1-069DST]



Advantages

- The pull latch handle with DIRAK-SNAP-Technology is used by 19" engineering for locking insertions.
- Tool-less installation.
- RH and LH application.
- When inserting the plug-in unit the free running slam hook latches into the appropriate cutout and locks the plug-in unit with the frame.
- By tilting the handle, the hook is withdrawn from the cutout and the plug-in unit can be pulled out.

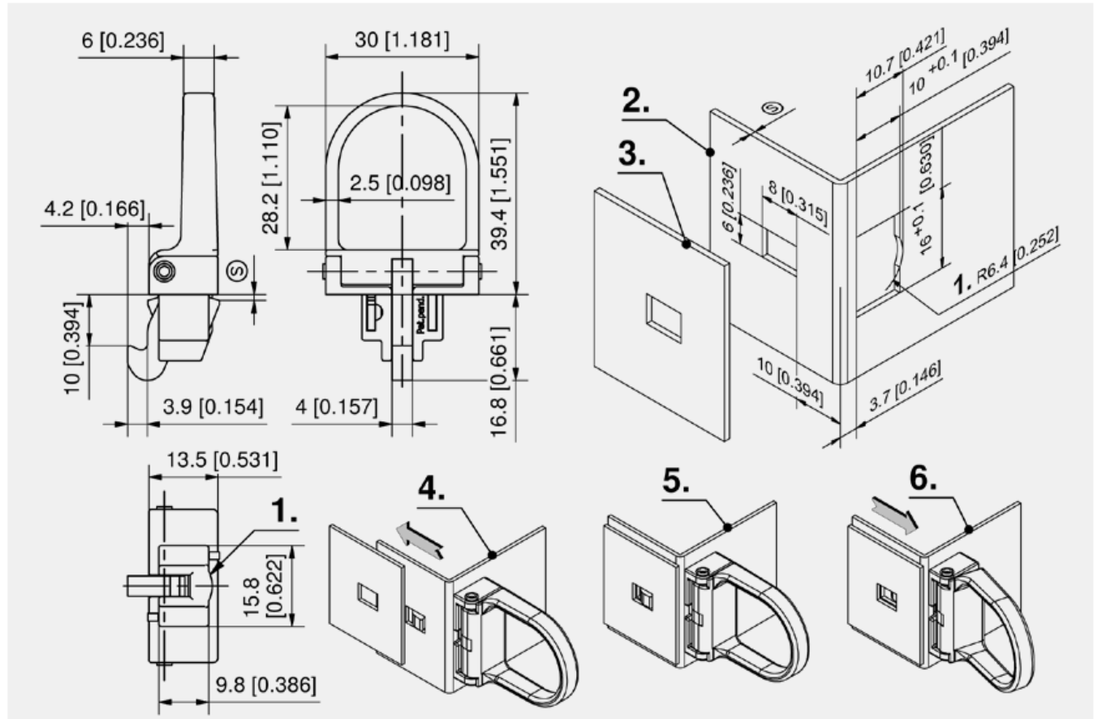
Materials

- **Housing and handle:** zinc die, matt chrome plated
- **Spring for insert:** spring steel
- **Snap wedges:** sintered steel, zinc plated
- **Hook:** sintered steel, zinc plated

Remarks

1. The bulge in the cutout is always opposite of the bolt. This cutout guarantees a unique and constant fitting.

1. bulge for correct positional installation
2. cutout door
3. cutout frame
4. pushing in
5. locked
6. unlocked



Pull Latch Handle

Part Number	Clamping range	Installation type
480-9002.00-00810	0.8 - 1.0 mm	tool-less
480-9002.00-01113	1.1 - 1.3 mm	tool-less
480-9002.00-01416	1.4 - 1.6 mm	tool-less

DST Compression Latch

[1-070DST]



Advantages

- Mini Compression Latch with with DIRAK-SNAP-Technology and indicator.
- ~7.5mm Compression stroke (1.).
- Tool-less installation.
- RH and LH version.
- The latching and compression operation for the RH version is clockwise, for the LH version counterclockwise.
- By turning the knob, the cam is put into the latched position. Once latched, a further turning of the knob makes the cam start its compression feature.
- The knob can also be controlled by a Phillips screwdriver.
- The direction of opening/closing is clearly marked on the housing.

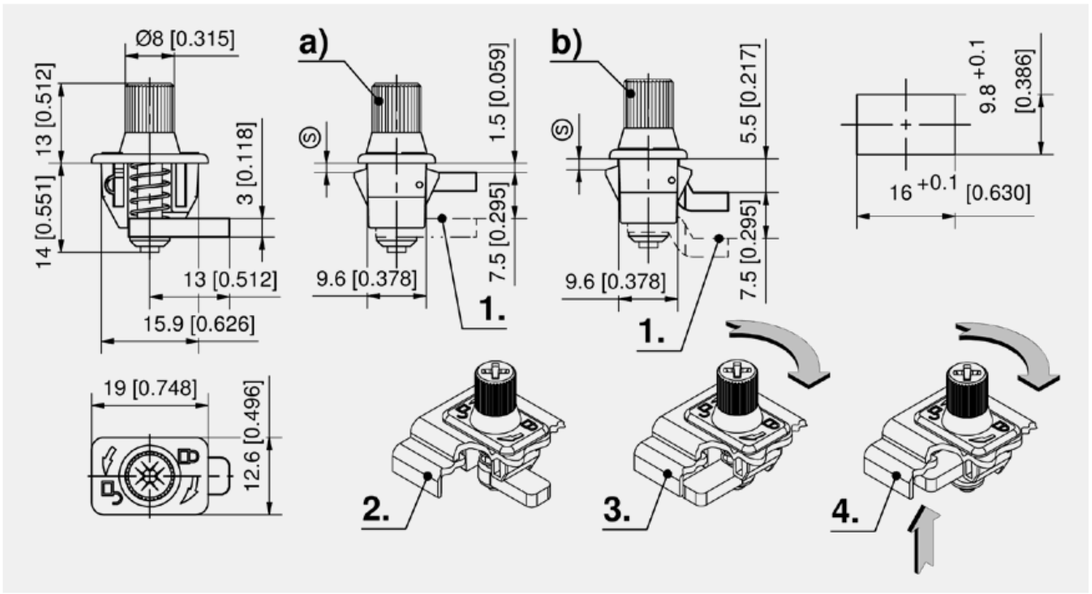
Materials

- **Housing:** zinc die, matt chrome plated
- **Insert and washer:** steel, zinc plated
- **Spring:** stainless steel
- **Straight cam:** steel, zinc plated
- **Cranked cam:** sintered metal
- **Snap wedges:** sintered steel, zinc plated

Remarks

Once latched, the cam for the RH version points to the right and vice versa.

2. open
3. cam pivoted
4. cam compressed



Mini Compression Latch

	Part Number	Version	Clamping range	Closing stroke	Compression stroke	Installation type
a)	448-9001.00-00810	RH	0.8 - 1.0 mm	clockwise	7,5	tool-less
a)	448-9001.00-01113	RH	1.1 - 1.3 mm	clockwise	7,5	tool-less
a)	448-9001.00-01416	RH	1.4 - 1.6 mm	clockwise	7,5	tool-less
a)	448-9002.00-00810	LH	0.8 - 1.0 mm	counter clockwise	7,5	tool-less
a)	448-9002.00-01113	LH	1.1 - 1.3 mm	counter clockwise	7,5	tool-less
a)	448-9002.00-01416	LH	1.4 - 1.6 mm	counter clockwise	7,5	tool-less

Mini Compression Latch with cranked cam

	Part Number	Version	Clamping range	Closing stroke	Compression stroke	Installation type
b)	448-9015.00-00810	RH	0.8 - 1.0 mm	clockwise	7,5	tool-less
b)	448-9015.00-01113	RH	1.1 - 1.3 mm	clockwise	7,5	tool-less
b)	448-9015.00-01416	RH	1.4 - 1.6 mm	clockwise	7,5	tool-less
b)	448-9016.00-00810	LH	0.8 - 1.0 mm	counter clockwise	7,5	tool-less
b)	448-9016.00-01113	LH	1.1 - 1.3 mm	counter clockwise	7,5	tool-less
b)	448-9016.00-01416	LH	1.4 - 1.6 mm	counter clockwise	7,5	tool-less

DST Compression Latch

[1-072DST]

with indicator red/green, tool-less installation



Advantages

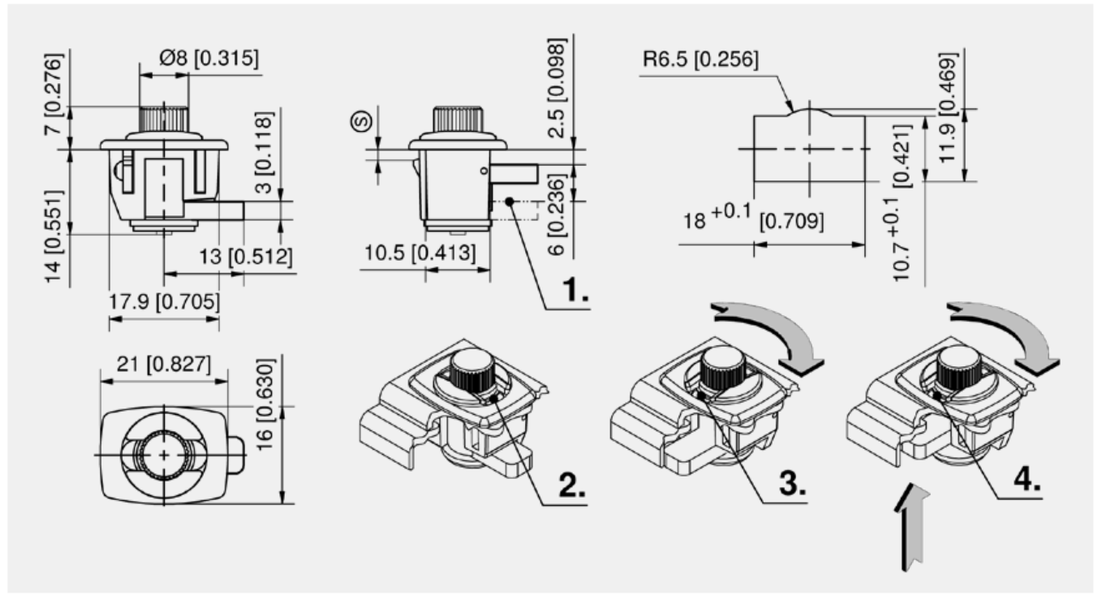
- Mini Compression Latch with indicator red/green.
- The indicator stays visible and is not concealed in any fitted situation.
- ~6mm Compression stroke (1.).
- In open position the indicator shows "red".
- By turning the knob, the cam is put into the latched position and the "green" indicator appears. Once latched, a further turning of the knob makes the cam start its compression feature.
- RH and LH application.
- Installation by a simple push into the cutout.
- Hand turning knob operated.

Materials

- **Housing, sleeve:** zinc die, matt chrome plated or black
- **Knob:** steel, zinc plated
- **Washers:** steel, matt chrome plated
- **Spring:** stainless steel
- **Cam:** sintered steel, zinc plated
- **Snap wedges:** sintered steel, zinc plated

Remarks

2. open, indicator red
3. cam latched, not pulled-down, indicator green
4. cam pulled-down, closed, indicator green



Mini Compression Latch

Part Number	Insert	Housing length	Clamping range	Compression stroke	Material	Surface	Installation type
448-9007.00-00810	Hand turning knob	14 mm	0.8 - 1.0 mm	6	zinc die	matt chrome plated	tool-less
448-9007.00-01113	Hand turning knob	14 mm	1.1 - 1.3 mm	6	zinc die	matt chrome plated	tool-less
448-9007.00-01416	Hand turning knob	14 mm	1.4 - 1.6 mm	6	zinc die	matt chrome plated	tool-less
448-9014.00-00810	Hand turning knob	14 mm	0.8 - 1.0 mm	6	zinc die	black	tool-less
448-9014.00-01113	Hand turning knob	14 mm	1.1 - 1.3 mm	6	zinc die	black	tool-less
448-9014.00-01416	Hand turning knob	14 mm	1.4 - 1.6 mm	6	zinc die	black	tool-less

Dual Ball Catch

[6-130]

RoHS WEEE



Advantages

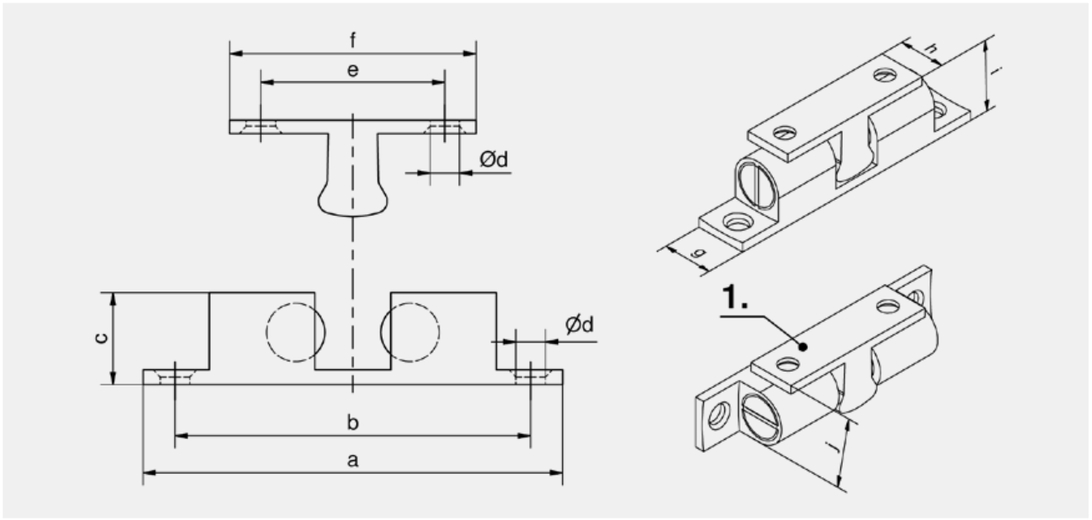
- Dual Ball Catch, screw-on.

Materials

- **Ball catch and counterpart:** brass or brass, chrome plated
- **Springs:** stainless steel
- **Balls:** stainless steel

Remarks

1. alternative turned 90°



Ball catch + counter part, brass

Part Number	a	b	c	d	e	f	g	h	i	j
263-9001.00-00000	44 mm	35 mm	9.4 mm	3.5 mm	15.2 mm	24.7 mm	8 mm	6.6 mm	11.8 mm	10.4 mm
263-9002.00-00000	49 mm	39.8 mm	10.6 mm	3.8 mm	19.8 mm	28.8 mm	8.8 mm	7.6 mm	13.2 mm	11.4 mm
263-9003.00-00000	59.8 mm	49.8 mm	13.2 mm	4.8 mm	24 mm	34.8 mm	11.2 mm	9.2 mm	15.9 mm	13.9 mm
263-9004.00-00000	68.4 mm	58 mm	15 mm	4.8 mm	30 mm	40.2 mm	13 mm	12 mm	18.1 mm	16.1 mm

Ball catch + counterpart, brass, chrome plated

Part Number	a	b	c	d	e	f	g	h	i	j
263-9007.00-00000	44 mm	35 mm	9.4 mm	3.5 mm	15.2 mm	24.7 mm	8 mm	6.6 mm	11.8 mm	10.4 mm
263-9008.00-00000	49 mm	39.8 mm	10.6 mm	3.8 mm	19.8 mm	28.8 mm	8.8 mm	7.6 mm	13.2 mm	11.4 mm
263-9009.00-00000	59.8 mm	49.8 mm	13.2 mm	4.8 mm	24 mm	34.8 mm	11.2 mm	9.2 mm	15.9 mm	13.9 mm
263-9010.00-00000	68.4 mm	58 mm	15 mm	4.8 mm	30 mm	40.2 mm	13 mm	12 mm	18.1 mm	16.1 mm

Slam Lock

[6-120]

RoHS WEEE

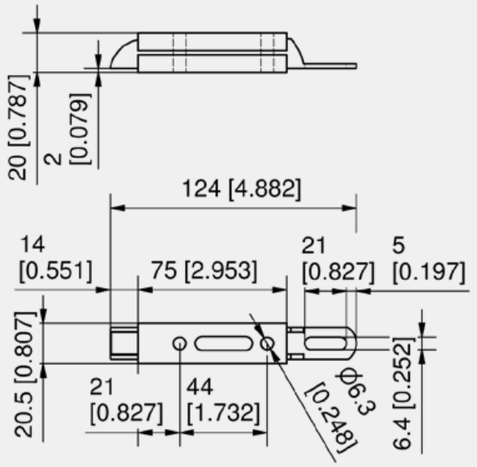


Advantages

- Robust, screw-on slam lock.

Materials

- **Slam lock:** steel, zinc plated



Slam Lock

Part Number	Installation type
229-9001.00-00000	screw-on

Flush Mounted Trap-Door Latch

[6-1381]

RoHS WEEE



Advantages

- Flush mounted trap-door latch with integrated T-handle and safety insert.
- Vibration-proof design.
- T-handle with 95° opening angle.
- Width of T-handle 25mm (0.984).
- T-handle with rubber stop to prevent rattling.
- Encasement surface perfectly smooth to prevent dirt deposits.
- Mounted with fastening bracket with two M6 allen screws DIN EN ISO 4762.
- Cutout with anti-twist safeguard.
- Also available without locking device (only flush-mounted T-handle).

Materials

- **Housing and T-handle:** zinc die, chrome plated

a)

- **Insert:** zinc die, chrome plated

a2)

- **Insert:** stainless steel AISI 303

Remarks

1. Fastening bracket
2. Spring loaded link
3. Locking device for T-handle

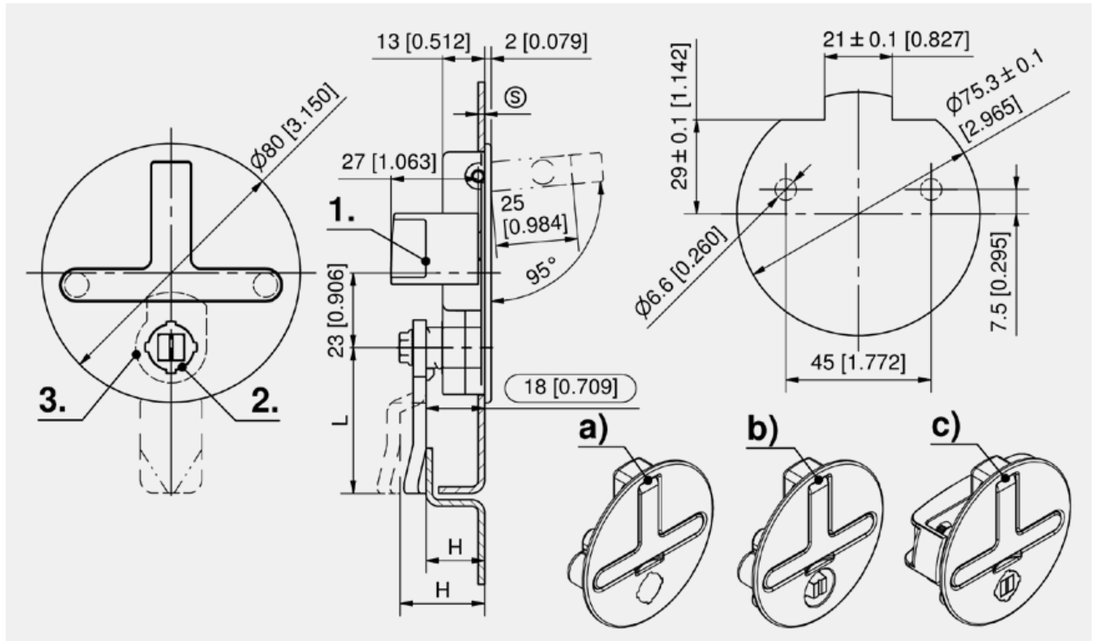
The door strength amounts to max. Ts=6mm (0.236) with the screw provided M6x16.

Attention:

H-dimension of the L=35 cam ≥14mm

H-dimension of the L=45 cam ≥14mm

Only for use with cams part-no. 200-06XX and 200-04XX!



Trap-Door latch

	Part Number	Insert	Version	Installation type
a)	213-9401.00-00000	without	without Fixing bracket	screw-on
b)	213-9403.00-00000	Conical square 9mm	without Fixing bracket	screw-on
c)	213-9402.00-00000	Square 8mm	with fixing bracket and hex. socket head screws M6x16	screw-on

+	Accessories
160	1-102 **Cams L35/45 steel**
759	204-0103.00-00000 **female key**
757	204-0701.07-07500 **Multi Key for Inserts**
757	204-0702.80-00000 **Universal Rail Key Stainless Steel**

Slam Latch Stainless Steel

[7-330]



Advantages

- Flush Slam Latch with free stroke.
- The recessed grip below the lever allows an easy access for operating the lever.
- For unlocking (5.) the lever has to be opened about 45°, the spring loaded lever automatically returns to the flush position.
- By the finger-pull on the latch, unlocking from inside is possible.

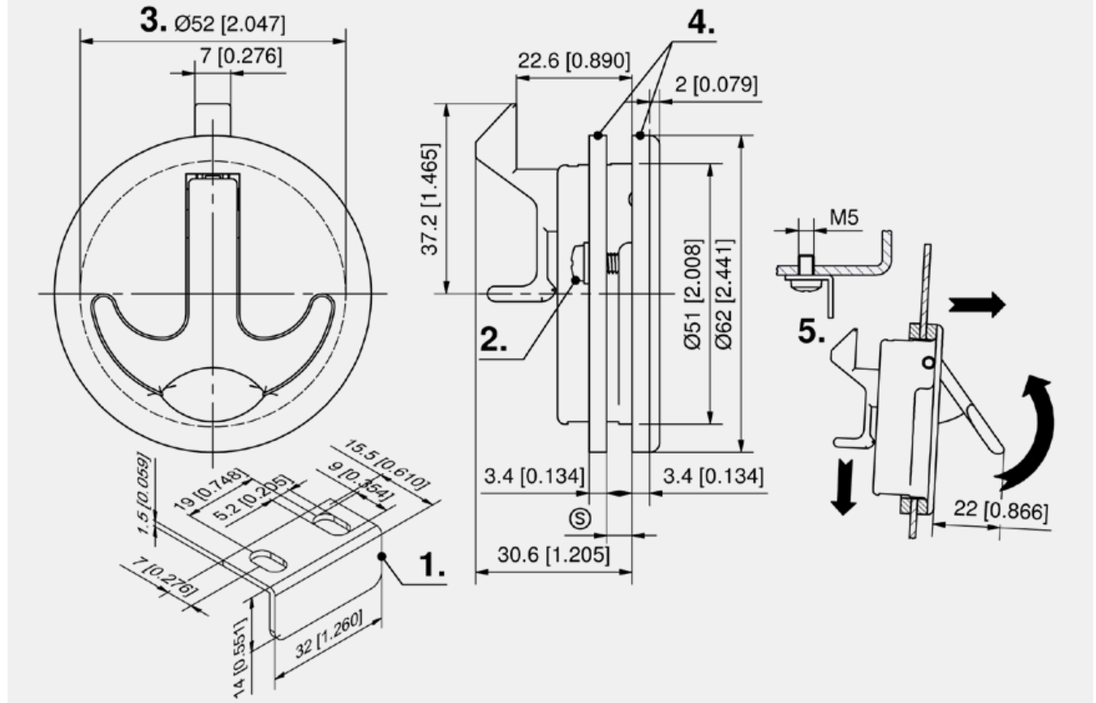
Materials

- **Housing, handle and latch:** AISI 316, surface polished
- **Screw, cam angle, pin and spring:** stainless steel
- **Spacer:** nylon, black

Remarks

1. Cam angle, included
2. Fastening screws M4x10
3. Cutout Ø52mm (2.047)
4. Base plates

RoHS WEEE



Slam Latch

Part Number	Cutout	Door-thickness	Installation type
282-9601.00-00000	Ø52	3 mm	screw-on

DST Pullhandle with Slam-Hook PrC

[2-060DST]

DST

C

R L

RoHS WEEE



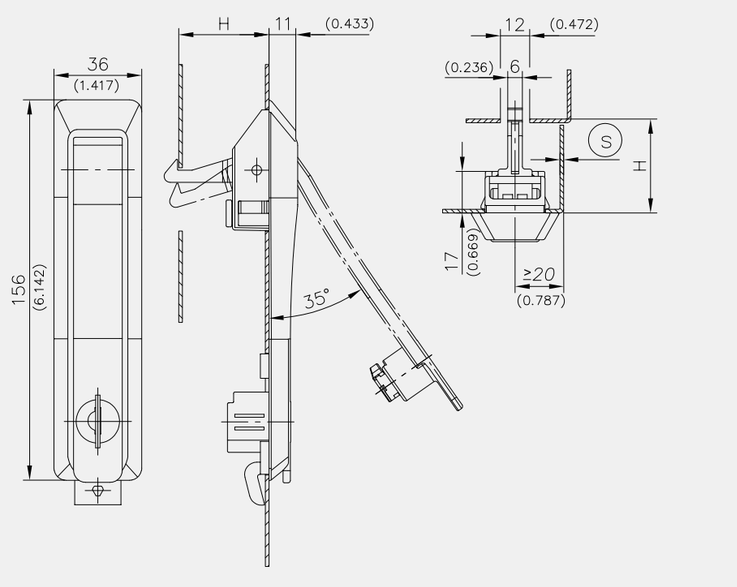
for cutout C, for cylinder, tool-less installation

Advantages

- Pullhandle with slam-hook with DIRAK-SNAP-Technology.
- Opening operation: unlock handle and pull handle by 35°.
- Closing operation: push handle into the dish, lock the barrel and slam the door closed. (the spring- loaded hook is free- running)
- LH and RH application.
- A non-locked handle has a detent in the door-dish.
- **Installation:** Hook lower part into the lower cutout. Snap top part into the upper cutout with a simple push.

Materials

- **Dish:** PA, black
- **Handle:** zinc die, black
- **Bolt/hook:** zinc die, untreated
- **Snap wedges:** PA
- **Pin:** steel, zinc plated
- **Locking cylinder:** PA



Pullhandle with slam-hook

Part Number	Clamping range	Latching type	h	Installation type
407-9402.00-37015	1.2 - 1.7 mm	keyed alike DIRAK 1333	37 mm	tool-less
407-9401.00-37015	1.2 - 1.7 mm	keyed different	37 mm	tool-less
407-9402.00-37020	1.7 - 2.2 mm	keyed alike DIRAK 1333	37 mm	tool-less
407-9401.00-37020	1.7 - 2.2 mm	keyed different	37 mm	tool-less

	Accessories
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

Slam Latch

[6-127]

RoHS WEEE

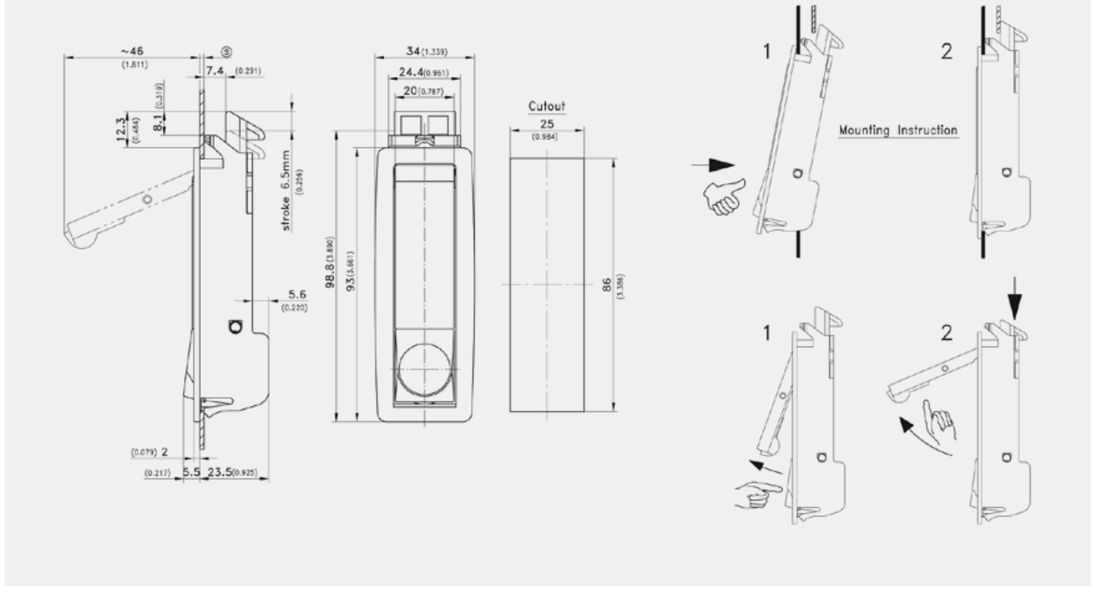


Advantages

- Clip-in low profile slam latch.
- Tool-less installation.
- For doors and panels with a sheet metal thickness of 1.5 to 2mm.
- Weight:
- without cylinder: 33g
- with cylinder: 46g.

Materials

- **Slam latch, cpl.:** PA, black
- **Leg spring:** stainless steel
- **Spring for slam:** spring steel



Slam Latch

Part Number	Clamping range	Latching type	Installation type
282-9501.00-00000	1.5 - 2 mm		tool-less
282-9502.00-00000	1.5 - 2 mm	keyed alike DIRAK 1333	tool-less
282-9503.00-00000	1.5 - 2 mm	keyed different	tool-less

Slam Latch

[6-150]

RoHS WEEE



Advantages

- The slam latch for aluminium profiles.
- 2-parts: door-housing and frame-housing.
- This frame-part catches the slam-bolt and is also the limit stop for the door.
- In this way, different profile widths can be connected with each other.
- Gently pulling the handle will disengage the slam-bolt.
- A gentle push will latch the door.

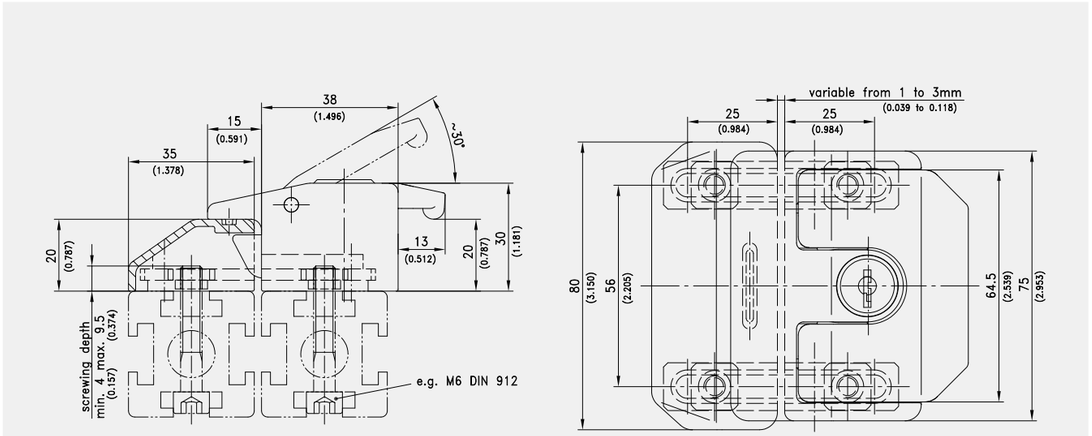
Materials

- **Handle, door- and frame housing:** zinc die, chrome plated or black
- **Bolt:** zinc die, untreated
- **Tenon nut:** steel, zinc plated

Remarks

The complete unit is fastened with 4 screws M6 (e.g. DIN 912, not included) into sliding tenon nuts which are included.

All lockable slam latches are supplied with 2 keys.



Slam-latch, zinc die, chrome plated

Part Number	Latching type	Installation type
265-9606.00-00000		screw-on
265-9601.00-00000	keyed alike DIRAK 1333	screw-on
565-9601.00-00000	keyed alike DS200	screw-on
265-9603.00-00000	keyed different	screw-on

Slam-latch, zinc die, black

Part Number	Latching type	Installation type
265-9605.00-00000		screw-on
265-9602.00-00000	keyed alike DIRAK 1333	screw-on
565-9602.00-00000	keyed alike DS200	screw-on
265-9604.00-00000	keyed different	screw-on

Sliding Slam Latch

[6-151]

RoHS WEEE



Advantages

- Slam latch consists of two parts (bolt and locking element) for aluminium profiles.
- Bolt housing with integrated stop.
- Opening by pushing the grip element.
- Finger-tip grip allows easy opening.
- Self-closing of the door.
- Opening from the inside not possible.
- Noise reduced.

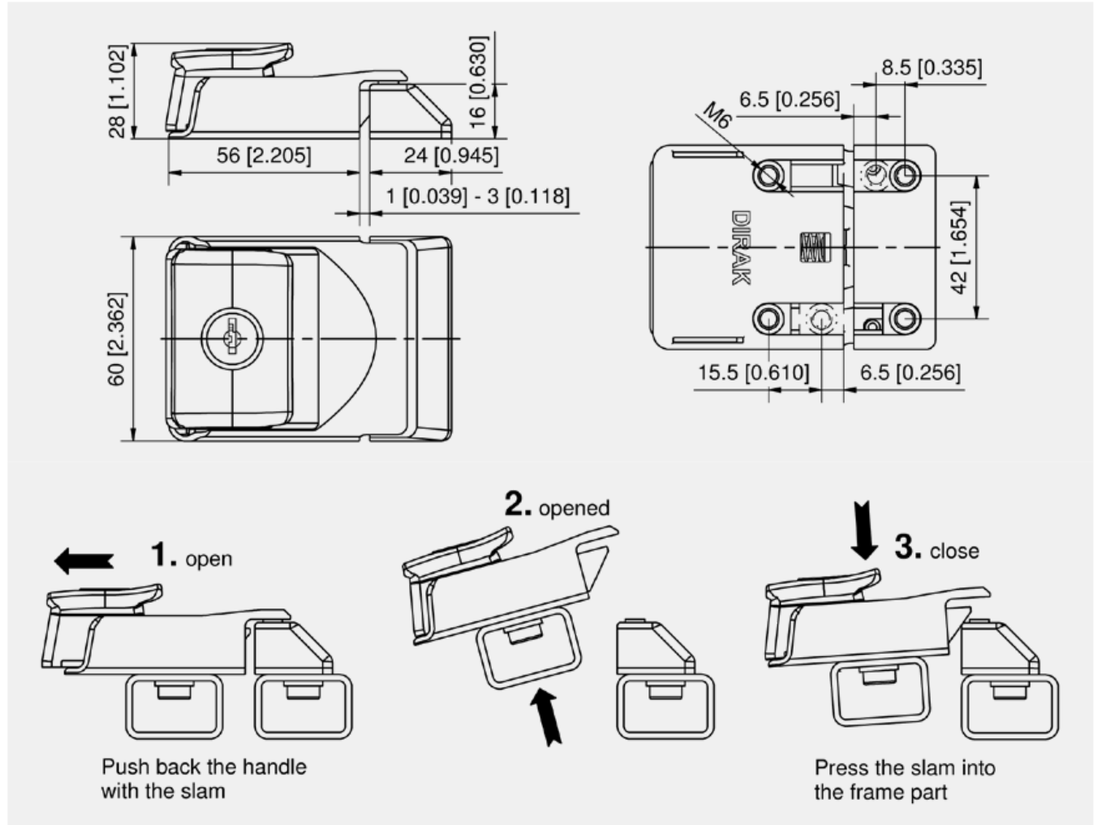
Materials

- **Bold and locking element:** zinc die, black
- **Slot nuts:** steel, zinc plated
- **Cylinder barrel:** PA, black

Remarks

Fastening with 4 screws M6 (e.g. DIN 912 not included) into slot nuts which are included in scope of delivery.

Version with cylinder barrel includes 2 keys.



Slam-latch, zinc die, black

Part Number	Latching type	Installation type
265-9607.00-00001	without lock, with plug	screw-on
265-9607.00-01333	keyed alike DIRAK 1333	screw-on
265-9607.00-99999	keyed different	screw-on

DST Slam Latch PrA

[6-125DST]



PICCOLO, for flush doors, tool-less installation

Advantages

- Just slightly protruding slam latch with DIRAK-SNAP-Technology.
- Field of application: latching small doors or panels.
- To release: after unlocking, just push the upper, clearly marked part of the handle. The lower part then can be pulled-out and this disenga-ges the spring loaded slam-bolt.
- The spring-loaded slam bolt has a free-stroke, allowing slaming of closed and locked handles.
- **Only available with key number 23211.**

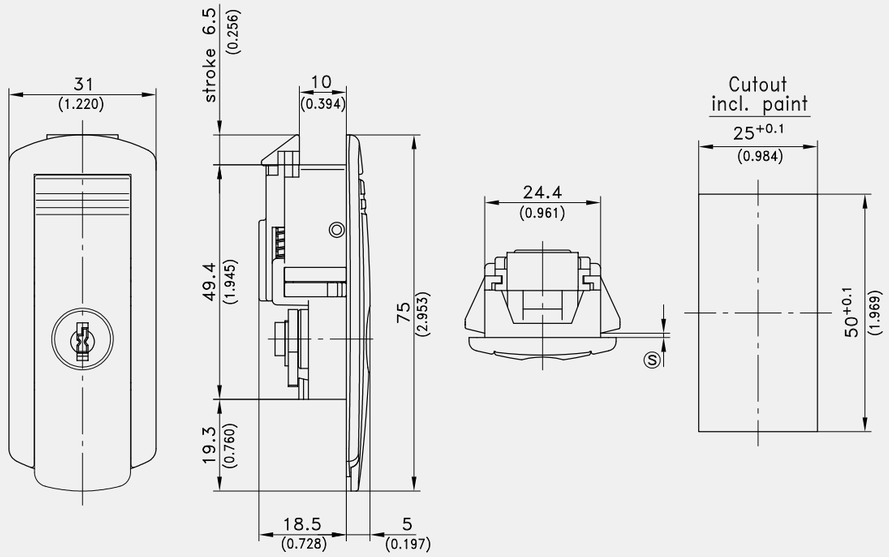
Materials

- **Housing, handle and slam-bolt:** PA, black
- **Cam:** steel, zinc plated
- **Pin:** steel, zinc plated
- **Snap wedges:** sintered steel

Remarks

Installation:

Enter slam-side into the cutout first and then snap-in the unit.



Slam Latch

Part Number	Clamping range	Latching type	Version	Installation type
482-9001.00-00015	1.2 - 1.7 mm	keyed alike No. 23211	without key	tool-less
482-9001.00-00020	1.7 - 2.2 mm	keyed alike No. 23211	without key	tool-less
482-9001.00-00025	2.2 - 2.7 mm	keyed alike No. 23211	without key	tool-less
482-9002.00-00015	1.2 - 1.7 mm	keyed alike No. 23211	with 2 keys	tool-less
482-9002.00-00020	1.7 - 2.2 mm	keyed alike No. 23211	with 2 keys	tool-less
482-9002.00-00025	2.2 - 2.7 mm	keyed alike No. 23211	with 2 keys	tool-less
482-9003.00-00015	1.2 - 1.7 mm		with blind plug	tool-less
482-9003.00-00020	1.7 - 2.2 mm		with blind plug	tool-less
482-9003.00-00025	2.2 - 2.7 mm		with blind plug	tool-less

Specific accessories
205-9530.00-23211 **2 Keys on ring**

Snap-Lock

[6-122]

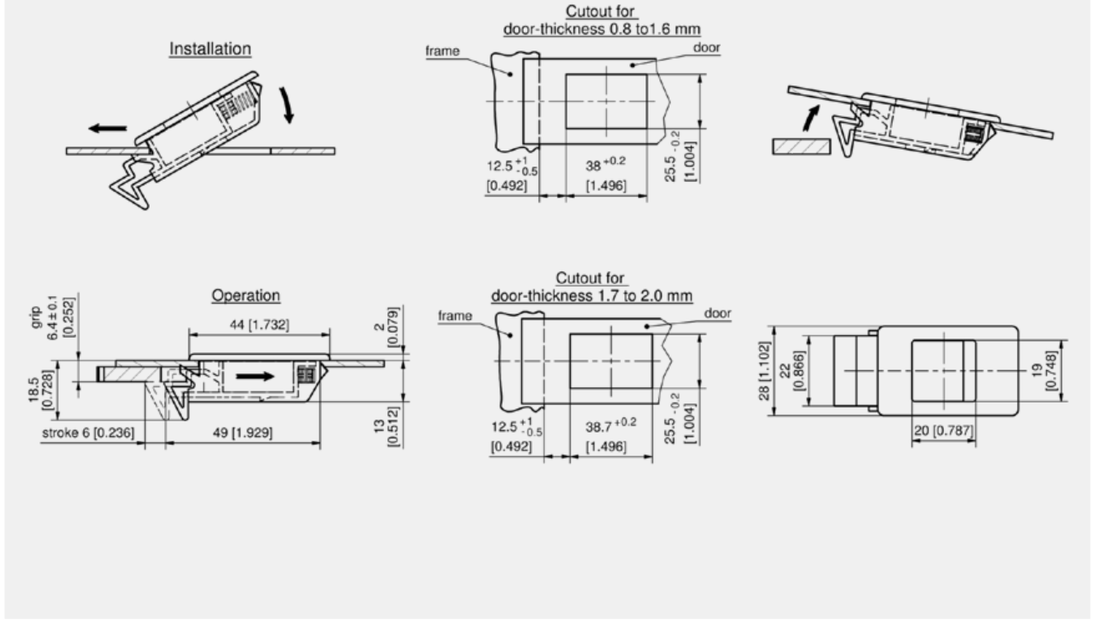


Advantages

- Low Snap-lock.
- Tool-less installation.
- Clip-in for door-tickness 0.8mm to 2.0mm.
- This Snap-lock device is especially suitable for latching of doors and lids.
- The Snap-lock consists of two parts, housing and slam bolt.
- The bolt moves in the housing when you open it. This can't scratch the surface of the sheet metal.
- When the latch is released and in its final position a fin-ger-tip grip becomes acces-sible to facilitate opening the door.
- Vibration-proof according to DIN EN 61373.

Materials

- **Slam bolt and housing:** PA, black
- **Spring:** stainless steel



Snap-Lock

Part Number	Door-thickness	Installation type
282-9001.00-00000	0.8 - 2.0 mm	tool-less

Bolt Lock

[6-114]

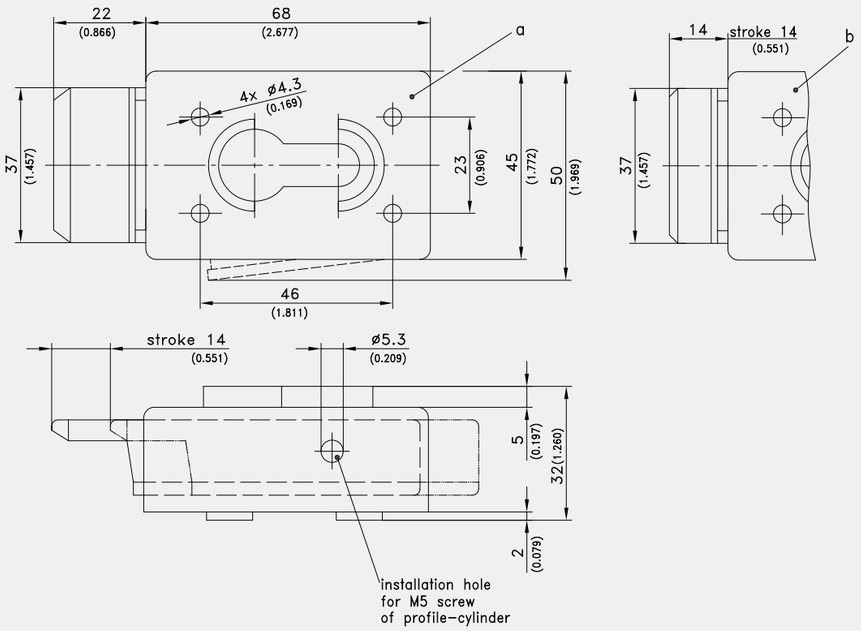


Advantages

- Plastic bolt lock.
- Install with polyamide lock covers see product system 6-115.
- Profile-cylinder see product system 2-140 a) and f).

Materials

- **Bolt lock, complete.:** POM, natural



Bolt Lock

	Part Number	Version	Stroke
a)	228-9201.00-00000	Bolt 22mm	14 mm
b)	228-9202.00-00000	Bolt 14mm	14 mm

Polyamide Lock Cover

[6-115]



Advantages

- Polyamide lock cover for PHZ or KABA-cylinders and Quarter-turns.
- 180° Opening angle.
- Cover is locked by Quarter-turn with bolt.
- Polyamide lock covers g), o) and p): **Opening angle of 170°, springloaded covers.**
- Spacer
- q), q1), q2): for PHZ and KABA-cylinders and Quarter-Turns
- r): only for PHZ.

Materials

- **Lower part, cover and small quarter-turn:** PA, grey or white RAL 7032, RAL 7035 or RAL 9003

a) to d)

- **Shaft:** stainless steel AISI 304

k)

- **Shaft:** steel, zinc plated

g), o) and p)

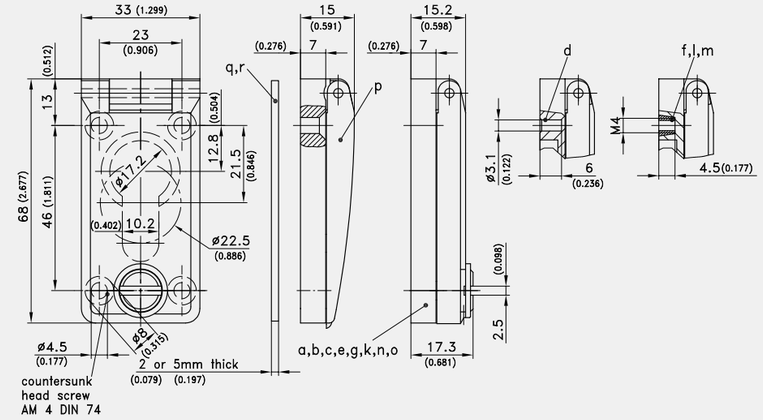
- **Spring:** stainless steel AISI 301
- **Shaft:** stainless steel AISI 303

e), f), l), m) and n)

- **Quarter-turn part and bolt:** brass, nickel plated
- **Shaft:** steel, zinc plated

q), q1), q2) and r)

- **Spacer:** PA, grey or white RAL 7032, RAL 7035 or RAL 9003



Accessories Latches, PA

	Part Number	Name	Surface	Sealable	Screwing type
a)	237-9001.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032		with countersunk holes
b)	237-9051.00-00000	Polyamide lock cover for profile-cylinder	light grey RAL 7035		with countersunk holes
c)	237-9031.00-00000	Polyamide lock cover for profile-cylinder	signal white RAL 9003		with countersunk holes
d)	237-8031.00-00000	Polyamide lock cover for profile-cylinder	signal white RAL 9003		with blind holes Ø3.1
e)	237-9101.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032	Yes	with countersunk holes
f)	237-9103.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032	Yes	with bushings M4
g)	237-8002.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032		with countersunk holes
k)	237-9002.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032		with countersunk holes
l)	237-8004.00-00000	Polyamide lock cover for round cylinder Ø22 or quarter-turn housing Ø28	light grey RAL 7035		with bushings M4
m)	237-9154.00-00000	Polyamide lock cover for round cylinder Ø22 or quarter-turn housing Ø28	light grey RAL 7035	Yes	with bushings M4
n)	237-9102.00-00000	Polyamide lock cover for round cylinder Ø22 or quarter-turn housing Ø28	pebbel grey RAL 7032	Yes	with countersunk holes
o)	237-9303.00-00000	Polyamide lock cover for round cylinder Ø22 or quarter-turn housing Ø28	pebbel grey RAL 7032		with countersunk holes
p)	237-9304.00-00000	Polyamide lock cover for profile-cylinder	pebbel grey RAL 7032		with countersunk holes
q)	237-0401.06-07032	Spacer 5mm thick	pebbel grey RAL 7032		
q1)	237-0401.06-07035	Spacer 5mm thick	light grey RAL 7035		
q2)	237-0401.06-09003	Spacer 5mm thick	signal white RAL 9003		
r)	237-0402.06-07032	Spacer 2mm thick	pebbel grey RAL 7032		

Slam Latch for Profile-Cylinder

[6-111]



Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance

Advantages

- RH / LH or vertical / horizontal application.
- Depending on application, key is always in the correct position.
- Profile-cylinder with lengths of 40 and 45 mm and cam acc. to DIN 18252 can be used.
- Pull back of the latch bolt by rotation of the key.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

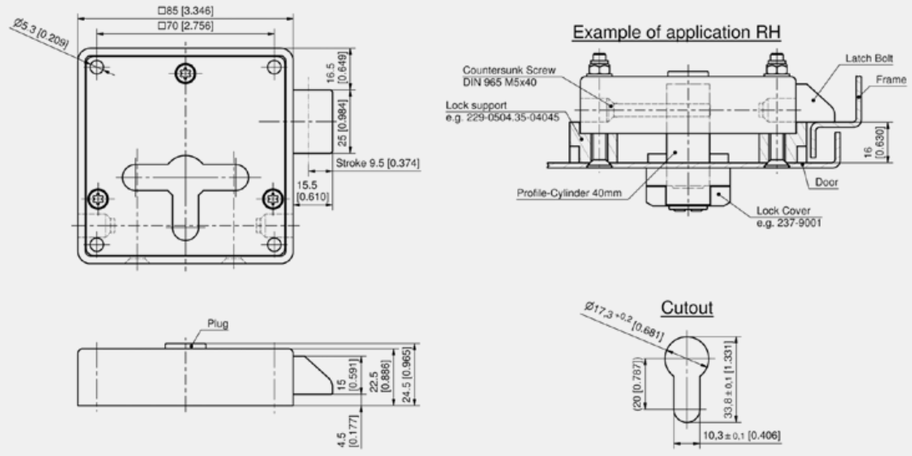
Materials

- **Slam latch:** zinc die, zinc plated
- **Latch bolt:** spheroidal graphite, cast iron

Remarks

Please order separately: Profile-Cylinder, Lock support and Lock cover

Installation with 4 carriage bolts or weld-studs M5.



Slam Latch for Profile-Cylinder

Part Number	Version	Installation type
229-9111.00-00000	RH	screw-on
229-9112.00-00000	LH	screw-on

Accessories

423	6-115 **Polyamide Lock Cover**
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**
747	860-0965.00-00540 **Countersunk screw**

Slam Latch for two Profile-Cylinder

[6-111.01]



Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance

Advantages

- Profile-cylinder with lengths of 40 / 45 mm and cam acc. to DIN 18252 can be used.
- Two profile-cylinder allow opening by each cylinder without unlocking the other one.
- Use of different keys and profile-cylinders possible.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

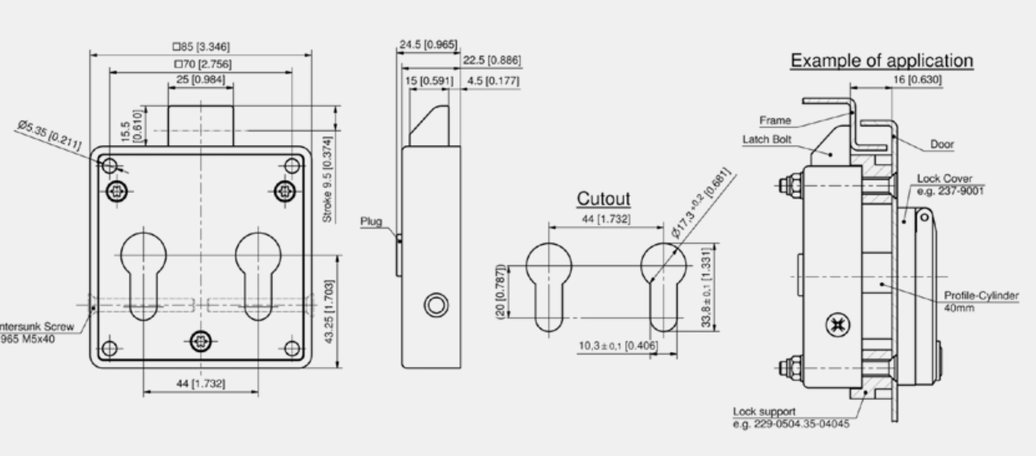
Materials

- **Slam latch:** zinc die, zinc plated
- **Latch bolt:** spheroidal graphite, cast iron

Remarks

Please order separately: Profile-Cylinder, Lock support and Lock cover

Installation with 4 carriage bolts or weld-studs M5.



Slam Latch for Profile-Cylinder

Part Number	Installation type
229-9113.00-00000	screw-on

Accessories

423	6-115 **Polyamide Lock Cover**
427	6-111.03 **Lock Support for Slam Latch**
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**

Slam Latch for Insert

[6-111.02]



Slam Latch for insert with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance

Advantages

- RH / LH or vertical / horizontal application.
- Inserts see product system 1-101, not included in delivery.
- Pull back of the bolt by rotation of the insert.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

Materials

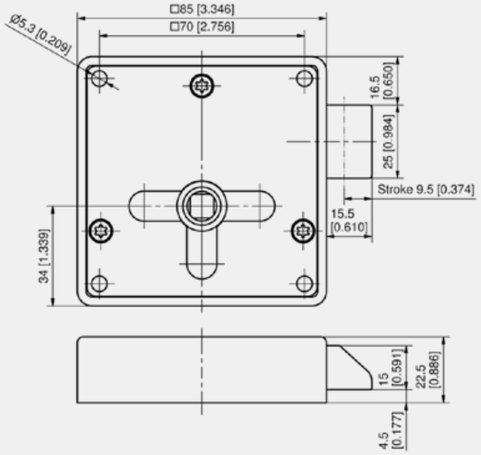
- **Slam latch:** zinc die, zinc plated
- **Latch bolt:** spheroidal graphite, cast iron

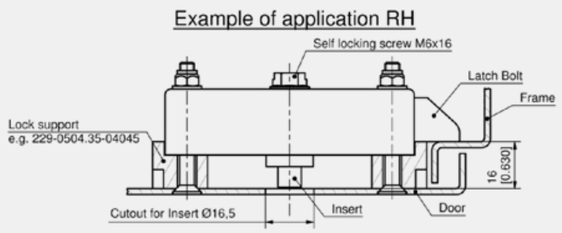
Remarks

Please order separately:

Insert, Lock support and Lock cover

Installation with 4 carriage bolts or weld-studs M5.





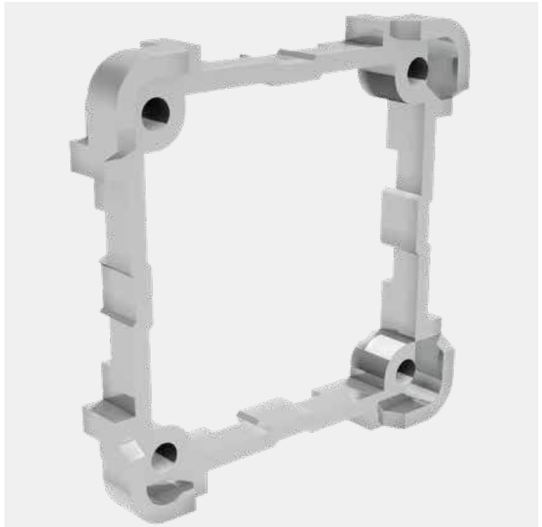
Slam Latch for Insert

Part Number	Version	Installation type
229-9109.00-00000	RH	screw-on
229-9110.00-00000	LH	screw-on

Accessories	
156	1-101 **Inserts Pr20.1**
423	6-115 **Polyamide Lock Cover**
427	6-111.03 **Lock Support for Slam Latch**

Lock Support for Slam Latch

[6-111.03]



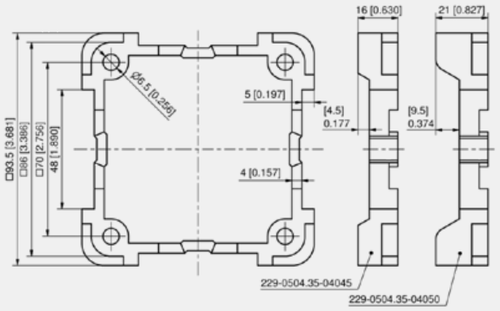
Lock support for different door bendings

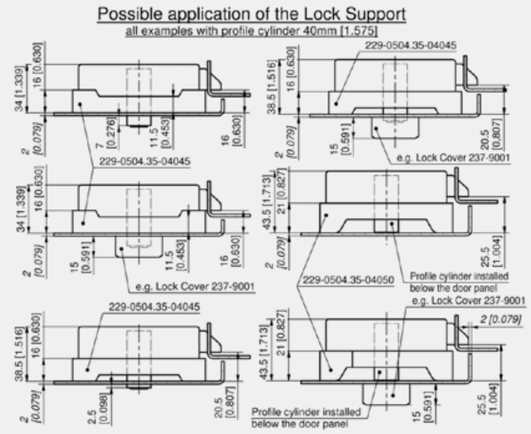
Advantages

- Lock support 229-0504.35-04045 for bending of 11.5 or 16mm.
- Lock support 229-0504.35-04050 for bending of 11.5 or 21mm.

Materials

- **Lock support:** zinc die, untreated





Lock Support for Slam Latch

Part Number	Version	Material	Surface
229-0504.35-04045	for bending 11,5 or 16mm	zinc die	untreated
229-0504.35-04050	for bending 11,5 or 21mm	zinc die	untreated

Dead Bolt Lock

[6-110]

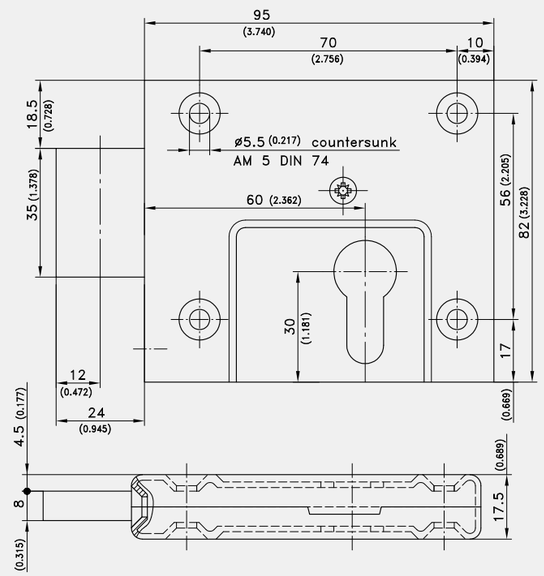


Advantages

- Double-rotating lockable application.
- RH / LH application.
- For Profile-cylinder DIN 18252.
- Countersunk machine screw for PHZ is included.

Materials

- **Dead Bolt Lock:** steel, zinc plated



Dead Bolt Lock

Part Number	Version	Installation type
228-9001.00-00000	RH / LH	screw-on

	Accessories
300	2-140 **Profile-Cylinder DIN 18252**
747	860-0965.00-00570 **Countersunk machine screw for dead bolt lock**



Compression Latch PHZ with Lock Cover

See page 436

Compression Latch PHZ

[6-500]

DIN 61373

IP 65

RoHS WEEE

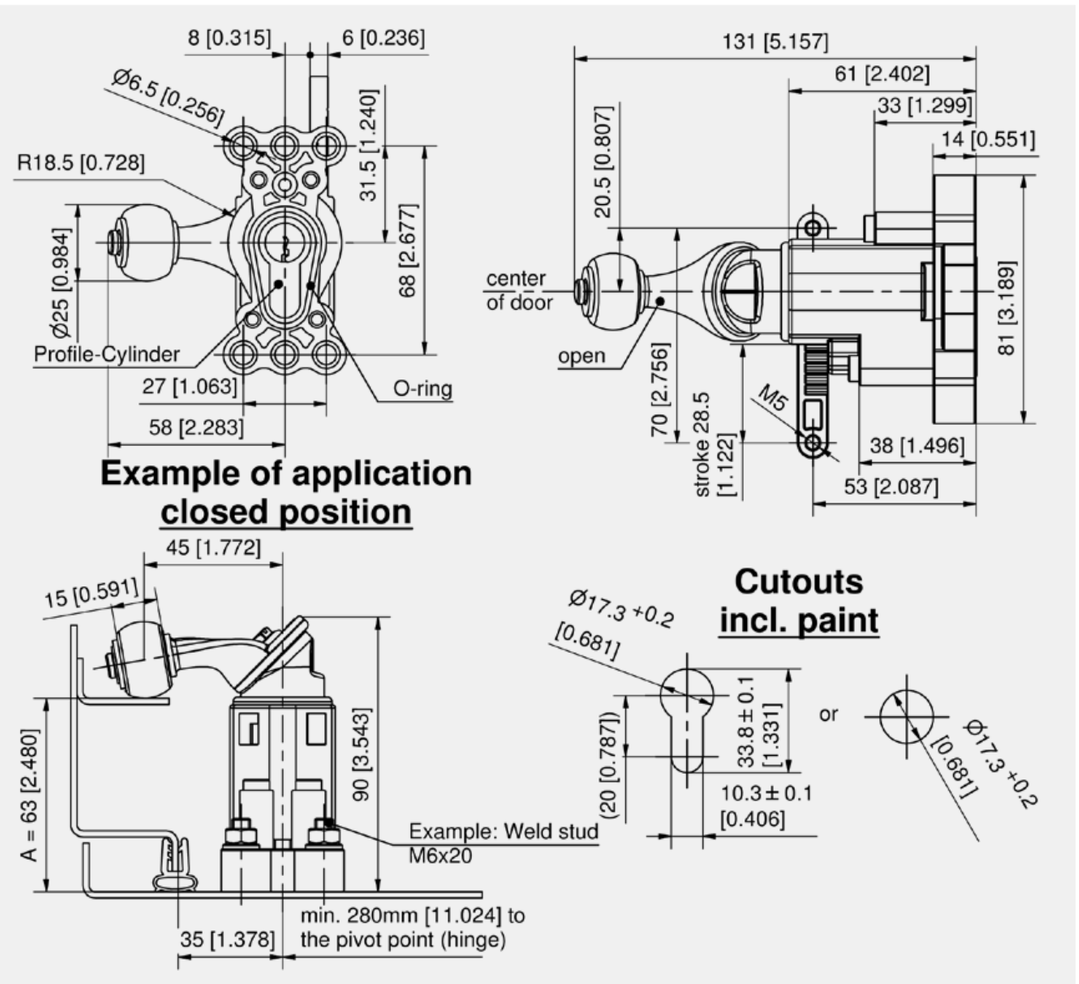


Advantages

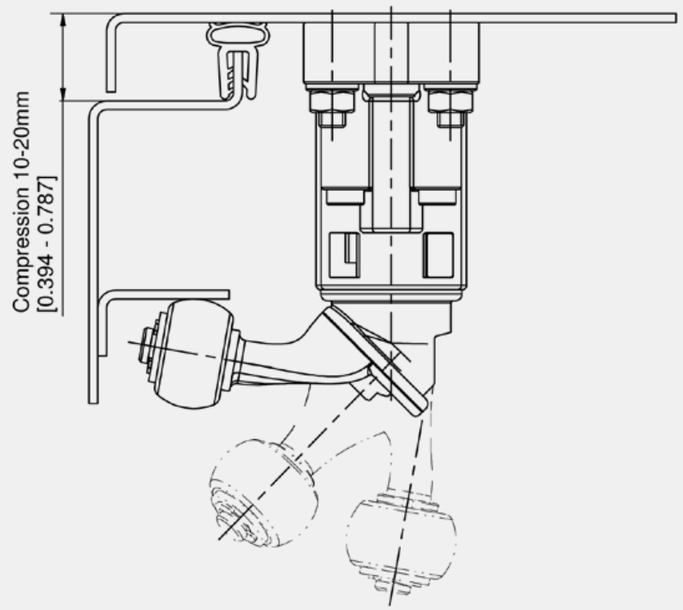
- Compression 10-20mm.
- No protruding handle or knob.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Vibration-proof according to DIN EN 61373.
- Version DIN RH (as shown). Version DIN LH on request.
- 1300N of force at the latching point.

Materials

- **Housing, housing cover, slider and cam:** zinc die, zinc plated
- **Roller:** POM, black
- **Washer, retaining clip and fastening screws:** steel, zinc plated
- **Shoulder bolt:** stainless steel
- **Gear cover:** PA6, black
- **O-rings:** NBR, black
- **Flat external seal:** EPDM, black



Operation



Compression latch PHZ (internal)

Part Number	1-point cam	A-dimension	Compression	Installation type
448-9112.00-00020	Yes	63 mm	10 - 20mm	screw-on

Accessories
301 211-9003.00-00000 **Profile-Cylinder**
301 211-9004.00-00000 **Profile-Cylinder**

2-Point Latch PHZ, vertical

[6-501]

IP 65

RoHS WEEE

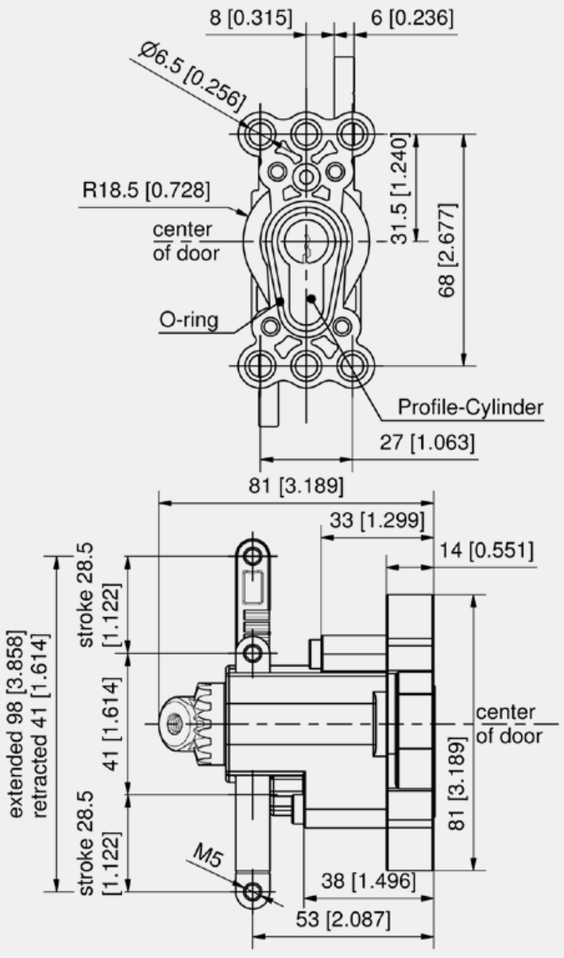


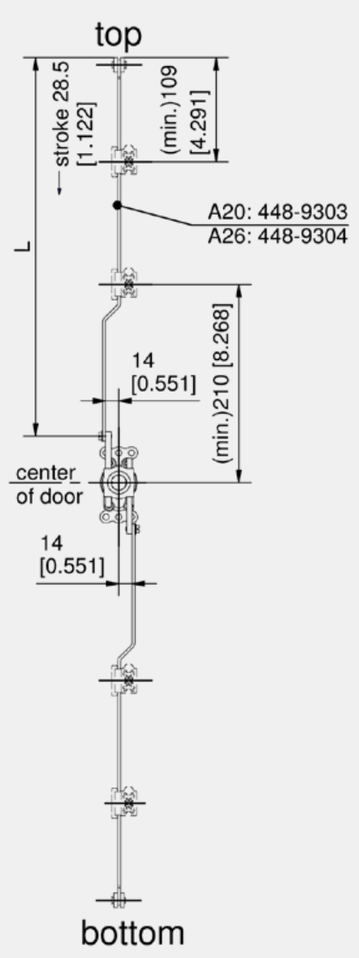
Advantages

- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Water- and dust-tight according to IP65 DIN EN 60529.
- Version DIN RH (as shown). Version DIN LH on request.

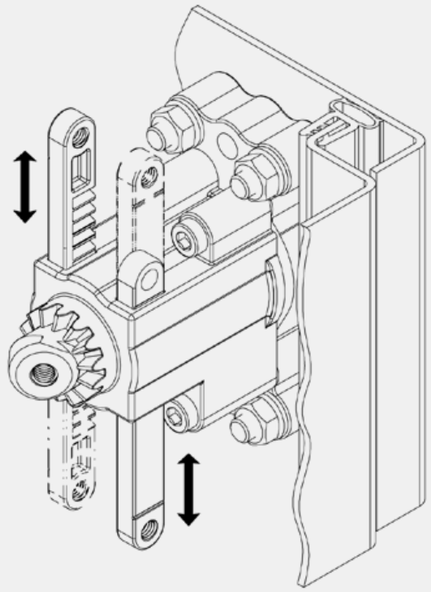
Materials

- **Housing, housing cover and slider:** zinc die, zinc plated
- **Screws:** steel, zinc plated
- **O-rings:** NBR, black
- **Flat external seal:** EPDM, black
- **Flat rod:** steel, zinc plated

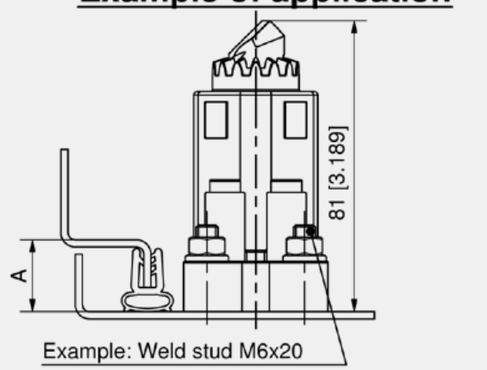




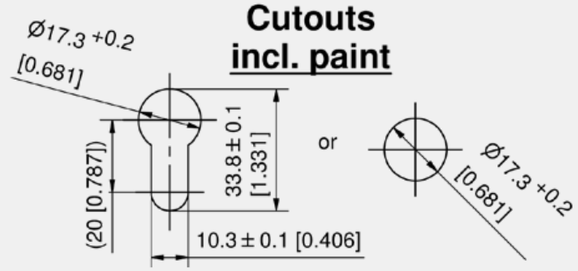
Operation



Example of application



Cutouts incl. paint



Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm } [0.394] \text{ (tolerance)} - 41 \text{ (Rod Latch System in retraced condition)}}{2}$$

2-point latch PHZ (internal)

Part Number	Version	Multi-point latches
448-9119.00-00000	for flat rods	Yes

Accessories	
6-501.900	**Flat rod**
376 3-910	**Flat Rod Guide FS**
377 3-911	**Rod Guide FS**
301 211-9003.00-00000	**Profile-Cylinder**
301 211-9004.00-00000	**Profile-Cylinder**

2-Point Latch PHZ, horizontal

[6-501.01]

IP 65

RoHS WEEE

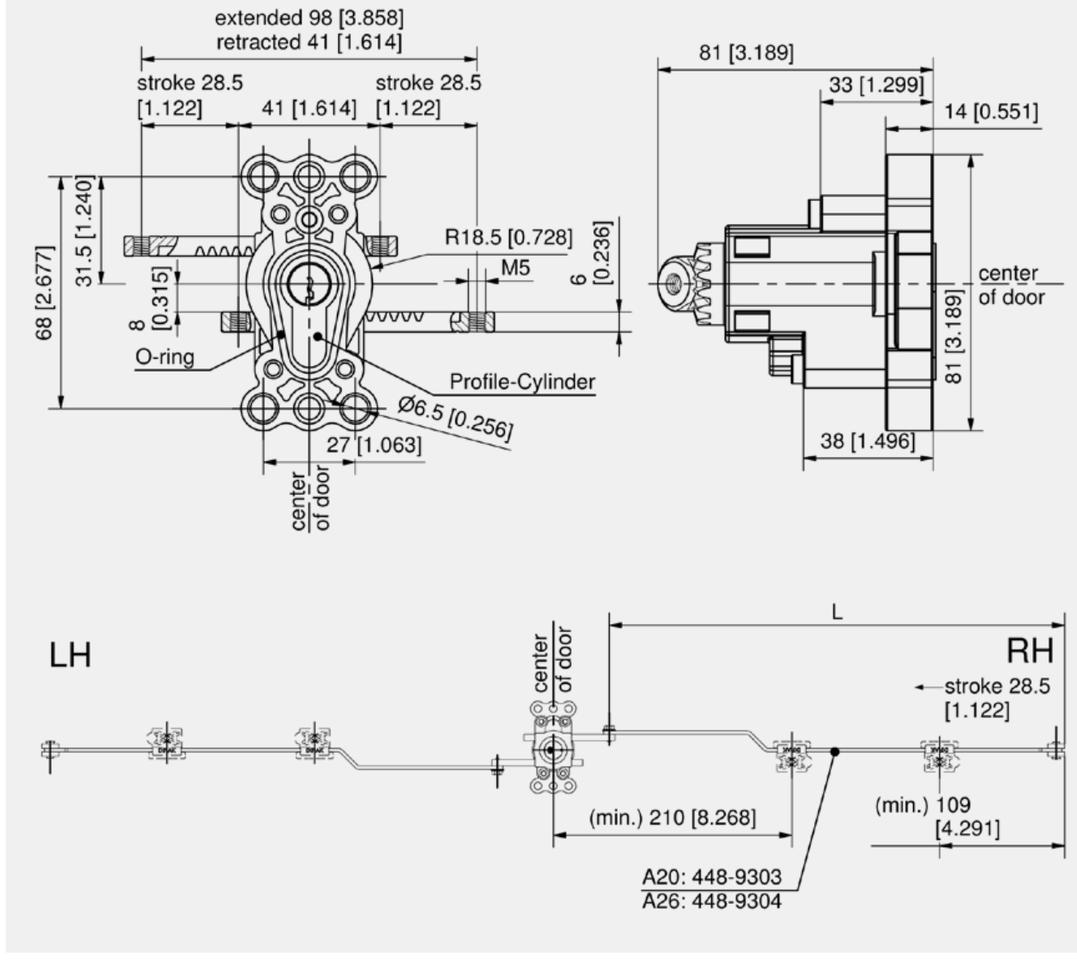


Advantages

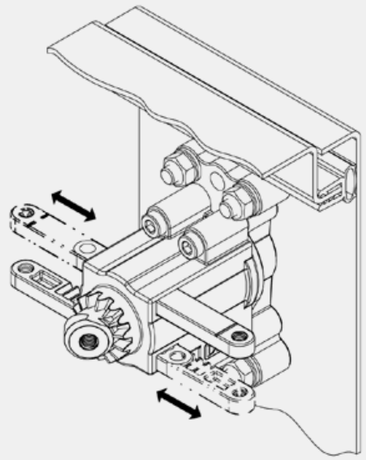
- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Water- and dust-tight according to IP65 DIN EN 60529.
- Version DIN RH (as shown). Version DIN LH on request.

Materials

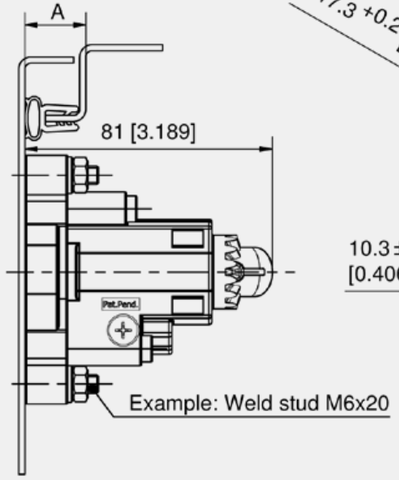
- **Housing, housing cover and slider:** zinc die, zinc plated
- **Screws:** steel, zinc plated
- **O-rings:** NBR, black
- **Flat external seal:** EPDM, black
- **Flat rod:** steel, zinc plated



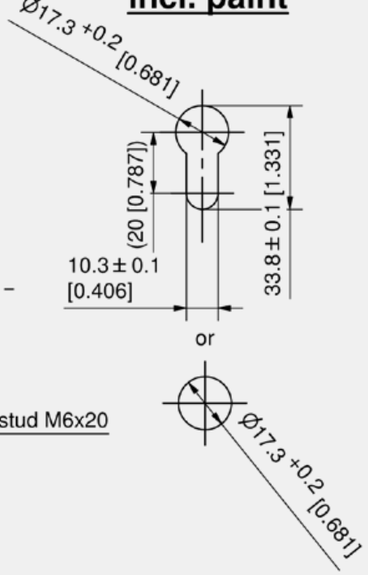
Operation



Example of application



Cutouts incl. paint



Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm } [0.394] \text{ (tolerance)} - 41\ [1.614] \text{ (Rod Latch System in retraced condition)}}{2\ [0.079]}$$

2-point latch PHZ (internal)

Part Number	Version	Multi-point latches
448-9125.00-00000	for flat rods	Yes

	Accessories
6-501.900	**Flat rod**
376	3-910 **Flat Rod Guide FS**
377	3-911 **Rod Guide FS**
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**

Compression Latch PHZ with Lock Cover [6-502]

IP 65

RoHS WEEE

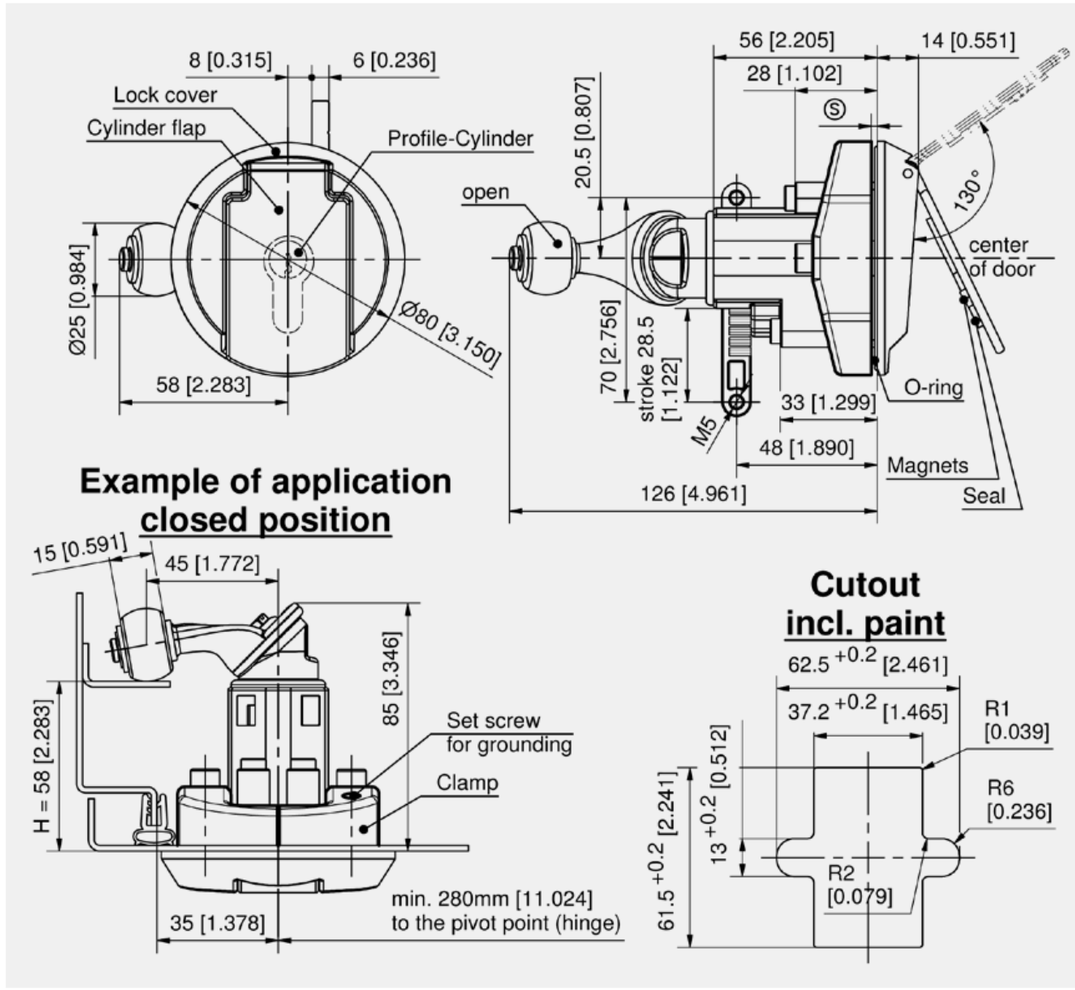


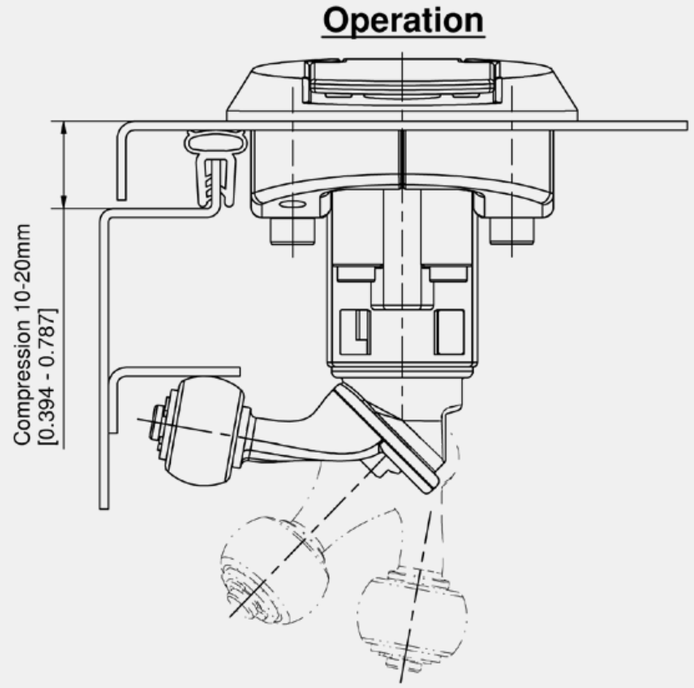
Advantages

- Ergonomically designed lock cover.
- Magnet supported cylinder flap.
- Compression 10 - 20mm.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- 1300N of force at the latching point.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown),
- Version DIN LH on request.
- (S) = max. 3 mm.

Materials

- **Housing, slider and cam:** zinc die, zinc plated
- **Lock cover:** zinc die, matt chrome plated
- **Clamp:** zinc die, untreated
- **Seal:** CR/NBR
- **Roller:** POM, black
- **Washer, fastening screws and set screw:** steel, zinc plated
- **Shoulder bolt:** stainless steel
- **Gear cover:** PA6, black





Compression Latch with cover

Part Number	1-point cam	H-dimension	Compression	Installation type
448-9114.00-00020	Yes	58 mm	10 - 20mm	screw-on

	Accessories
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**

2-Point Latch PHZ with Lock Cover

[6-503]

DIN 61373

IP 65

RoHS WEEE



Vertical 2-point latch

Advantages

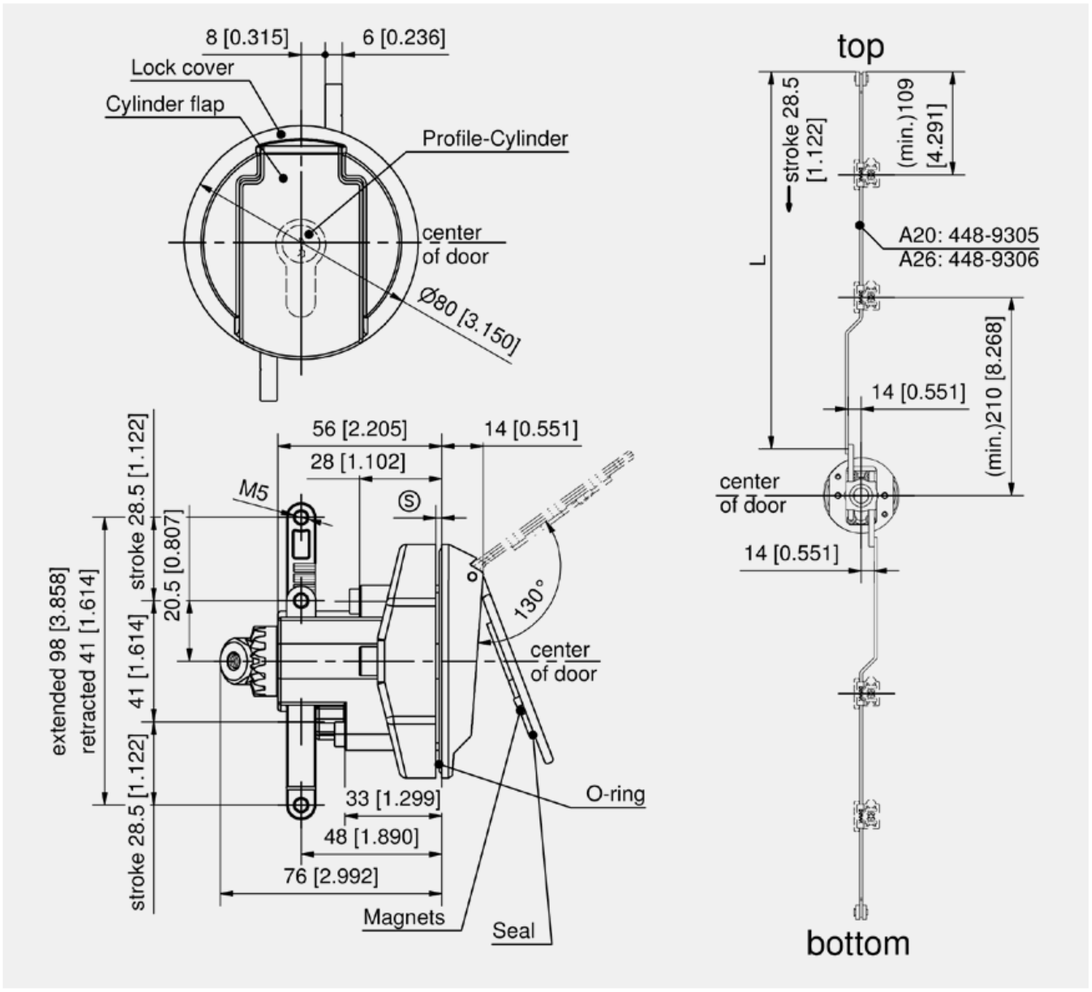
- Ergonomically designed lock cover.
- Magnet supported cylinder flap.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Grounding with set screw DIN 914 (incl.).
- Vibration-proof according to DIN EN 61373.
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown) Version DIN LH on request.

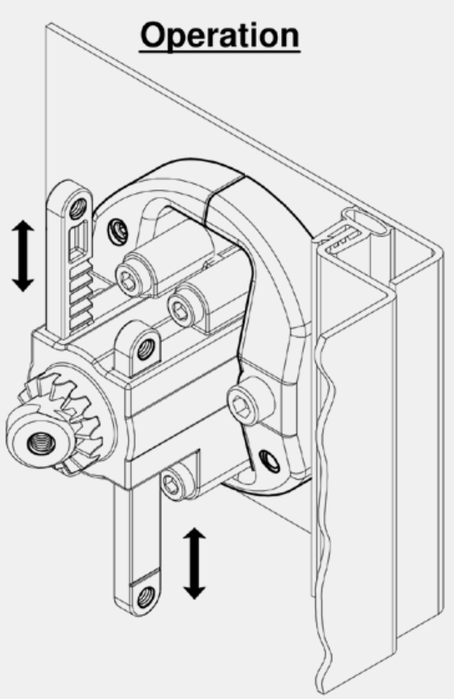
Materials

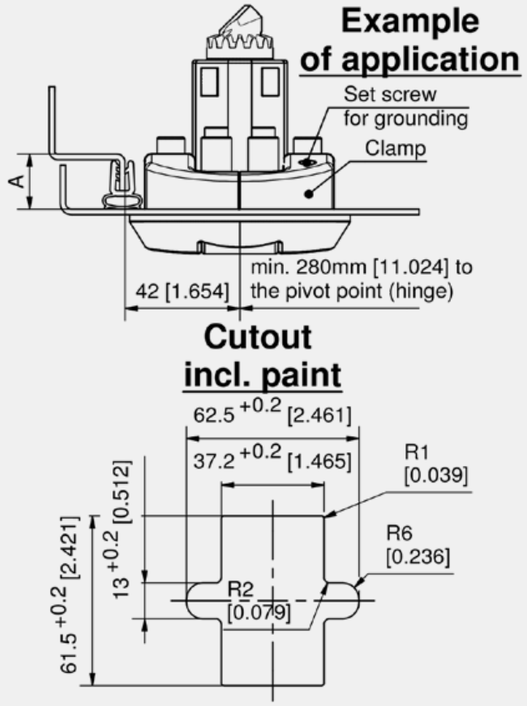
- **Housing and slider:** zinc die, zinc plated
- **Clamp:** zinc die, untreated
- **Lock cover:** zinc die, matt chrome plated
- **Sea:** CR / NBR
- **Fastening screws and set screw:** steel, zinc plated

Remarks

(S) = max. 3 mm.







Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm } [0.394] \text{ (tolerance)} - 41 \text{ (Rod Latch System in retraced condition)}}{2}$$

2-point latch with cover

Part Number	Version	Multi-point latches
448-9120.00-00000	for flat rods	Yes

	Accessories
	6-503.900 **Flat rod**
376	3-910 **Flat Rod Guide FS**
377	3-911 **Rod Guide FS**
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**

2-Point Latch PHZ with Lock Cover

[6-503.01]

IP 65

RoHS WEEE



Horzontal 2-point latch

Advantages

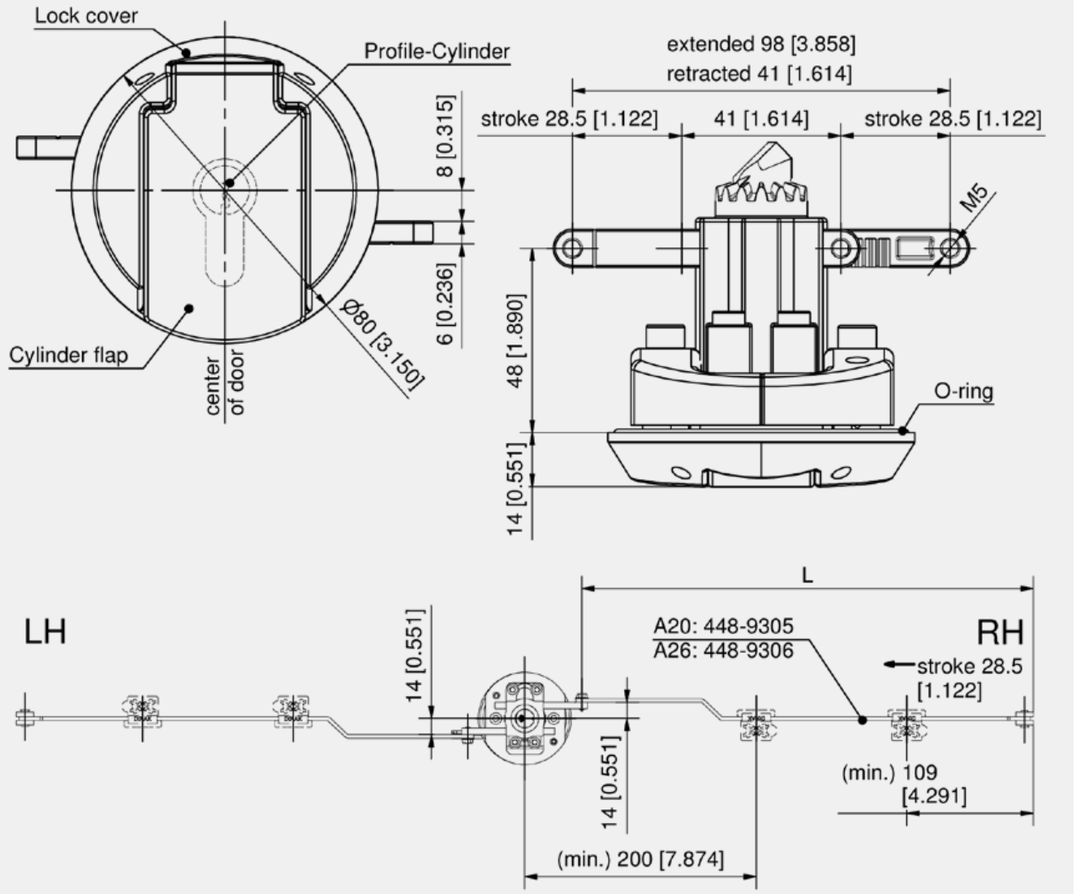
- Ergonomically designed lock cover.
- Magnet supported cylinder flap.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown) Version DIN LH on request.
- (S) = max. 3 mm.

Materials

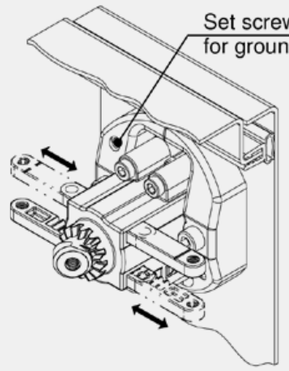
- **Housing and slider:** zinc die, zinc plated
- **Clamp:** zinc die, untreated
- **Lock cover:** zinc die, matt chrome plated

Other surfaces on request!

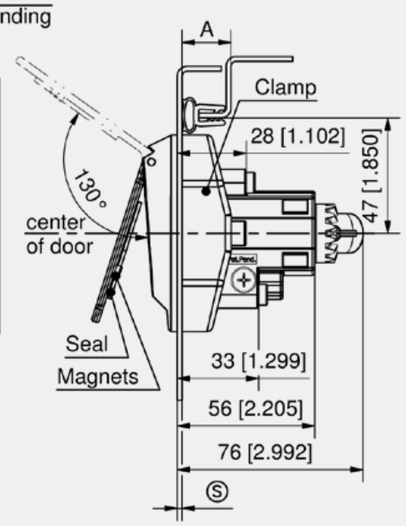
- **O-rings:** NBR, black
- **Seal for cylinder flap:** CR
- **Fastening screws and set screw:** steel, zinc plated



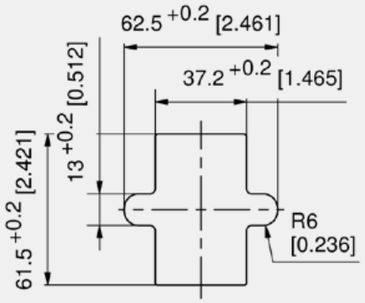
Operation



Example of application



Cutout incl. paint



Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm } [0.394] \text{ (tolerance)} - 41\ [1.614] \text{ (Rod Latch System in retraced condition)}}{2\ [0.079]}$$

2-Point Latch PHZ with Lock Cover

Part Number	Version	Multi-point latches
448-9123.00-00000	for flat rods	Yes

	Accessories
	6-503.900 **Flat rod**
376	3-910 **Flat Rod Guide FS**
377	3-911 **Rod Guide FS**
301	211-9003.00-00000 **Profile-Cylinder**
301	211-9004.00-00000 **Profile-Cylinder**

Compression Latch with Insert

[6-504]

DIN 61373

IP 65

RoHS WEEE

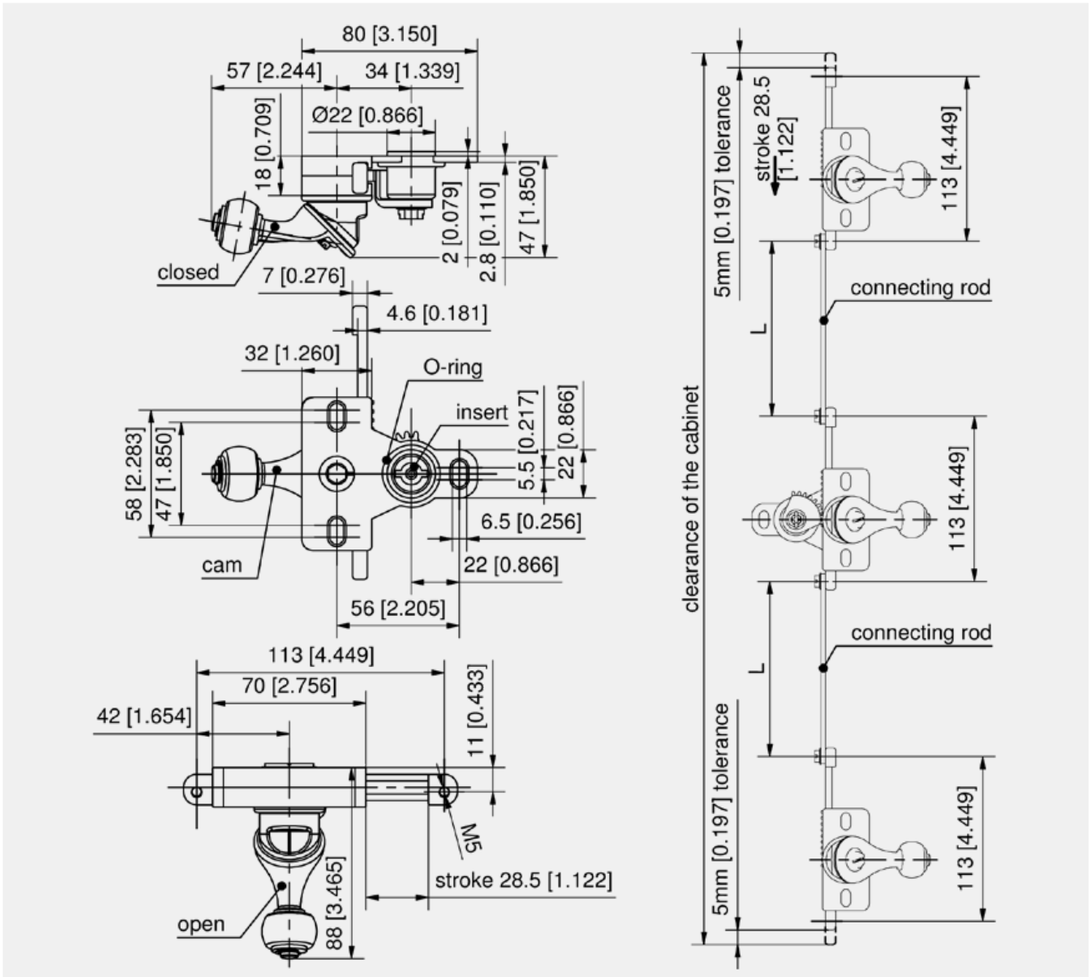


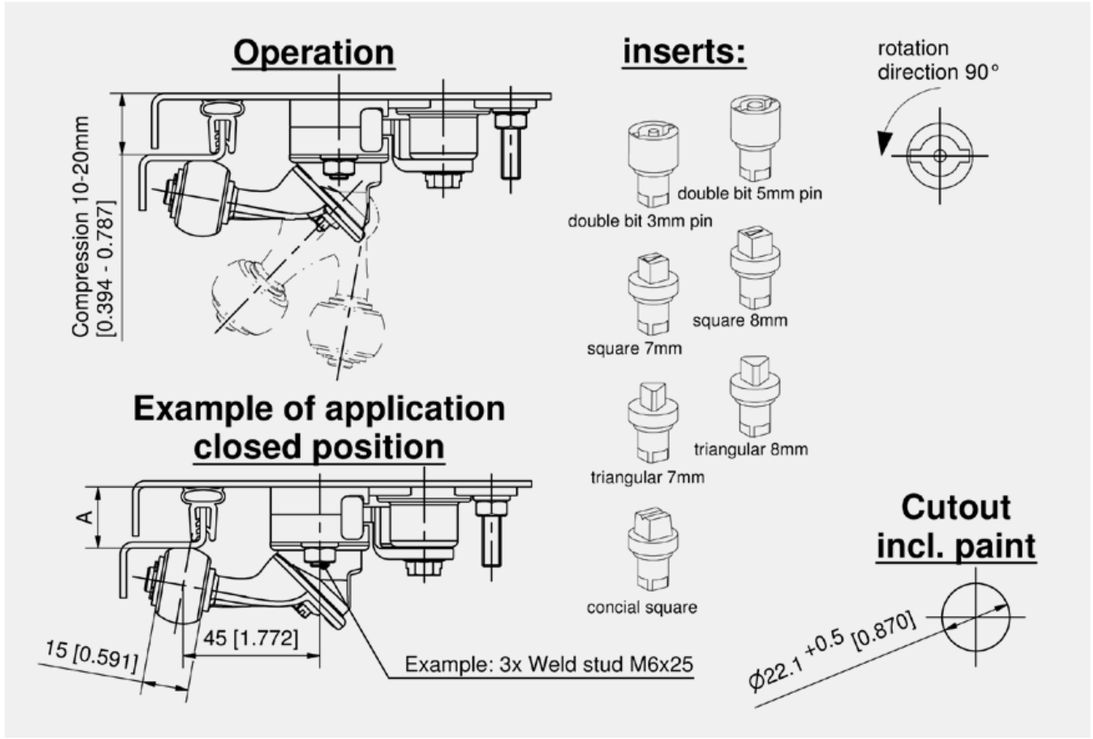
Advantages

- No protruding handle or knob.
- Innovative locking solution on the inside of the door as a single or multi-point latch (see product system 6-510).
- Perfectly suited to control flat rods.
- Closing- and opening operation 90°.
- 1300N of force per latching point.
- IP65 according to DIN EN 60529.
- Vibration-proof according to DIN EN 61373.

Materials

- **Housing, slider and cam:** zinc die, zinc plated
- **O-rings:** NBR, black
- **Washer, retaining clip and fastening screws:** steel, zinc plated
- **Roller:** POM, black
- **Shoulder bolt:** stainless steel
- **Insert:** zinc die, chrome plated
- **Gear cover:** PA6, black
- **Connecting rod:** steel, zinc plated





Compression Latch

Part Number	Insert	A	1-point cam	Multi-point latches	Compression
448-9117.00-01018	Double bit 3mm pin	18 mm	Yes	Yes	10 - 20mm
448-9117.00-02018	Double bit 5mm pin	18 mm	Yes	Yes	10 - 20mm
448-9117.00-03018	Square 7mm	18 mm	Yes	Yes	10 - 20mm
448-9117.00-04018	Square 8mm	18 mm	Yes	Yes	10 - 20mm
448-9117.00-05018	Triangular 7mm	18 mm	Yes	Yes	10 - 20mm
448-9117.00-06018	Triangular 8mm	18 mm	Yes	Yes	10 - 20mm
448-9117.00-07018	Conical square 9mm	18 mm	Yes	Yes	10 - 20mm
448-9117.00-01020	Double bit 3mm pin	20 mm	Yes	Yes	10 - 20mm
448-9117.00-02020	Double bit 5mm pin	20 mm	Yes	Yes	10 - 20mm
448-9117.00-03020	Square 7mm	20 mm	Yes	Yes	10 - 20mm
448-9117.00-04020	Square 8mm	20 mm	Yes	Yes	10 - 20mm
448-9117.00-05020	Triangular 7mm	20 mm	Yes	Yes	10 - 20mm
448-9117.00-06020	Triangular 8mm	20 mm	Yes	Yes	10 - 20mm
448-9117.00-07020	Conical square 9mm	20 mm	Yes	Yes	10 - 20mm
448-9117.00-01023	Double bit 3mm pin	23 mm	Yes	Yes	10 - 20mm
448-9117.00-02023	Double bit 5mm pin	23 mm	Yes	Yes	10 - 20mm
448-9117.00-03023	Square 7mm	23 mm	Yes	Yes	10 - 20mm
448-9117.00-04023	Square 8mm	23 mm	Yes	Yes	10 - 20mm
448-9117.00-05023	Triangular 7mm	23 mm	Yes	Yes	10 - 20mm
448-9117.00-06023	Triangular 8mm	23 mm	Yes	Yes	10 - 20mm
448-9117.00-07023	Conical square 9mm	23 mm	Yes	Yes	10 - 20mm
448-9117.00-01025	Double bit 3mm pin	25 mm	Yes	Yes	10 - 20mm
448-9117.00-02025	Double bit 5mm pin	25 mm	Yes	Yes	10 - 20mm
448-9117.00-03025	Square 7mm	25 mm	Yes	Yes	10 - 20mm
448-9117.00-04025	Square 8mm	25 mm	Yes	Yes	10 - 20mm
448-9117.00-05025	Triangular 7mm	25 mm	Yes	Yes	10 - 20mm
448-9117.00-06025	Triangular 8mm	25 mm	Yes	Yes	10 - 20mm
448-9117.00-07025	Conical square 9mm	25 mm	Yes	Yes	10 - 20mm

Accessories
6-504.900 **Connecting rod**
444 6-510 **Latching device**
758 6-100 **Key**

Latching device

[6-510]

DIN 61373

RoHS WEEE

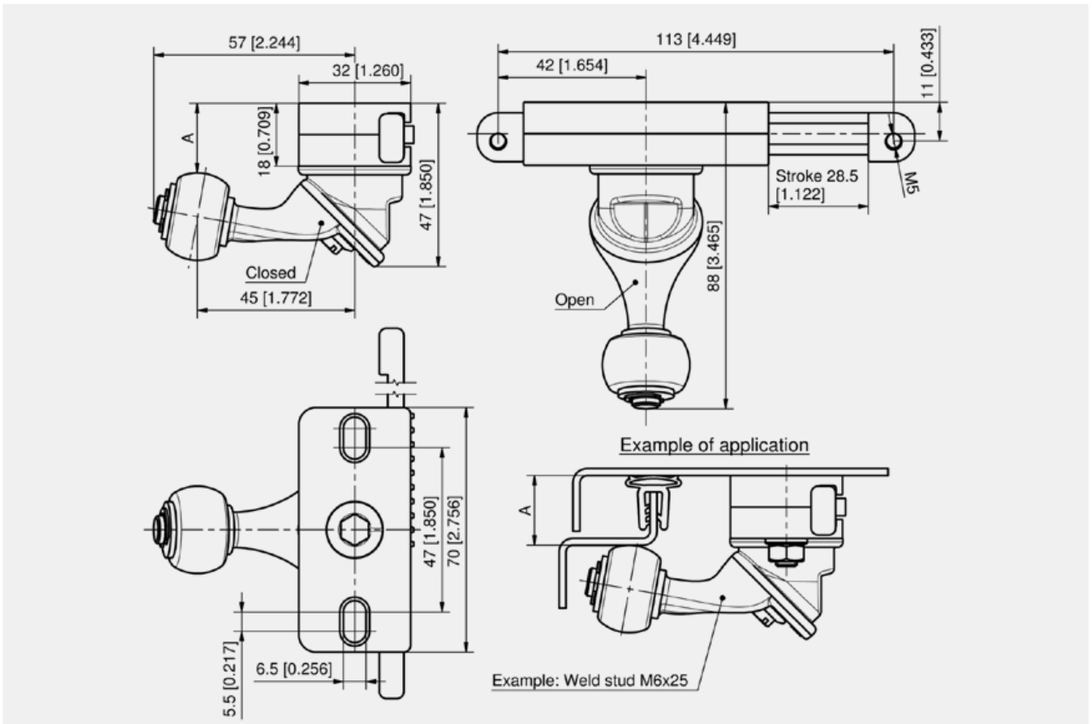


Advantages

- Innovative latching device is on the inside of the door.
- The latching devices can be connected by connecting rods.
- 1300N of force per latching device.
- Vibration-proof according to DIN EN 61373.

Materials

- **Housing, slider and cam:** zinc die, zinc plated
- **Cover:** PA6, black
- **Washer and retaining clip:** steel, zinc plated
- **Roller:** POM, black
- **Shoulder bolt:** stainless steel
- **Serrated screw and fastening screws:** steel, zinc plated



Compression Latch (internal)

Part Number	A	Version	Installation type
448-9106.00-00018	18 mm	with cam 18	screw-on
448-9106.00-00020	20 mm	with cam 20	screw-on
448-9106.00-00023	23 mm	with cam 23	screw-on
448-9106.00-00025	25 mm	with cam 25	screw-on

Accessories
442 6-504 **Compression Latch with Insert**



Compression Lever Latch

See page 446

Compression Lever Latch

[6-160]

DIN 61373

RoHS WEEE



Advantages

- Flat Compression Lever Latch with release button.
- With pre-assembled mounting bracket.
- No need for assembly from the inside.
- In closed position the lever latch cannot be disassembled.
- Vibration-proof according to DIN EN 61373.
- Adjustment of the H-dimension (1.) from 3 to 46mm.
- Lockable latches with stainless dust-sutter.
- Visibility of closing position by indicator at the insert variants (c.).
- Screw with rubber bumper (d.) avoids damages at the frame.

Materials

- **Compression Lever Latch:** zinc die, black, powder coated
- **Clamp:** steel, zinc plated
- **Insert:** zinc die, black, powder coated

Remarks

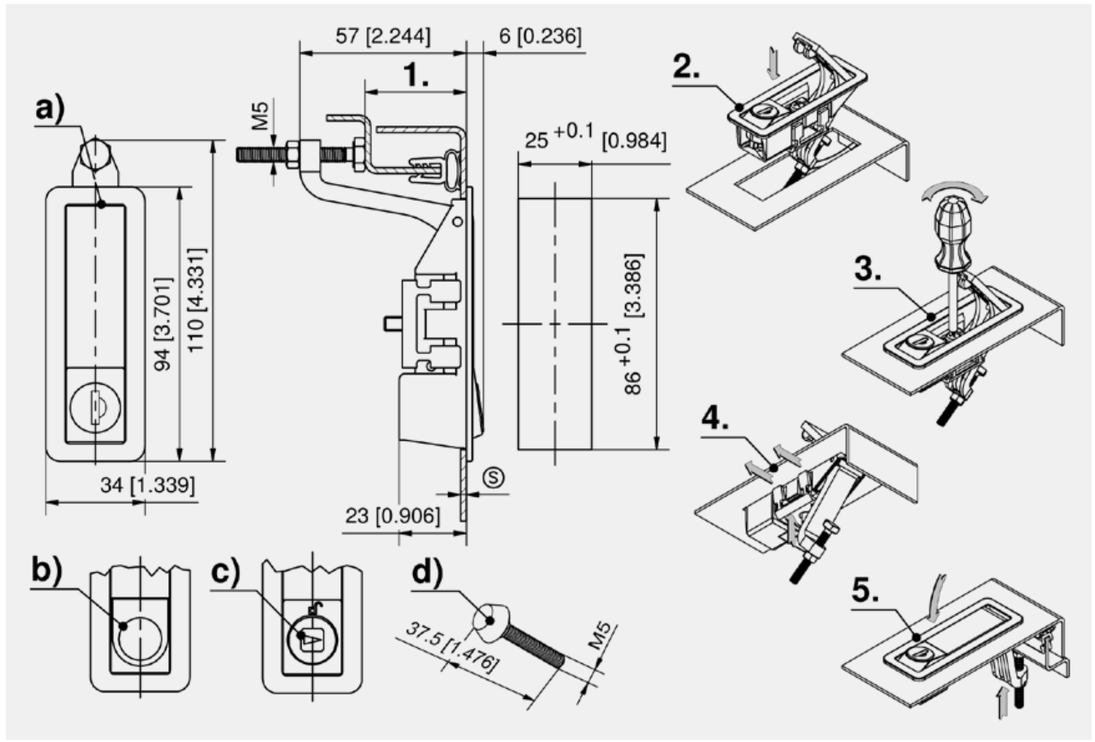
Installation:

2. The complete latch can be installed in the cutout from the front.

3. By turning the screw (PH2) from the outside, the mounting bracket spreads and fixes the latch in the door panel.

4. The latch is securely fastened by the mounting backet in the cutout.

5. By closing the latch the door is pulled against the frame.



Compression Lever Latch, without lock

	Part Number	variable H-dimension	Vibration-proof
b)	282-9416.00-00000	3 - 24 mm	Yes
b)	282-9419.00-00000	22 - 46 mm	Yes

Compression Lever Latch, lockable

	Part Number	variable H-dimension	Latching type	Vibration-proof
a)	282-9417.00-00000	3 - 24 mm	keyed alike DIRAK 1333	Yes
a)	282-9418.00-00000	3 - 24 mm	keyed different	Yes
a)	282-9420.00-00000	22 - 46 mm	keyed alike DIRAK 1333	Yes
a)	282-9421.00-00000	22 - 46 mm	keyed different	Yes

Compression Lever Latch, with insert

	Part Number	variable H-dimension	Insert	Vibration-proof
c)	282-9428.00-00001	3 - 24 mm	Square 6mm	Yes
c)	282-9428.00-00002	3 - 24 mm	Square 7mm	Yes
c)	282-9428.00-00003	3 - 24 mm	Square 8mm	Yes
c)	282-9428.00-00004	3 - 24 mm	Triangular 7mm	Yes
c)	282-9428.00-00005	3 - 24 mm	Triangular 8mm	Yes
c)	282-9428.00-00006	3 - 24 mm	Double bit 3mm pin	Yes
c)	282-9428.00-00007	3 - 24 mm	Double bit 5mm pin	Yes
c)	282-9428.00-00008	3 - 24 mm	Slotted 2x4mm	Yes
c)	282-9429.00-00001	22 - 46 mm	Square 6mm	Yes
c)	282-9429.00-00002	22 - 46 mm	Square 7mm	Yes
c)	282-9429.00-00003	22 - 46 mm	Square 8mm	Yes
c)	282-9429.00-00004	22 - 46 mm	Triangular 7mm	Yes
c)	282-9429.00-00005	22 - 46 mm	Triangular 8mm	Yes
c)	282-9429.00-00006	22 - 46 mm	Double bit 3mm pin	Yes
c)	282-9429.00-00007	22 - 46 mm	Double bit 5mm pin	Yes
c)	282-9429.00-00008	22 - 46 mm	Slotted 2x4mm	Yes

+	Accessories
d)	202-1001.00-00000 **Screw with rubber bumper**

Compression Lever Latch

[6-160.01]

DIN 61373

RoHS WEEE



Advantages

- Flat Compression Lever Latch with release button.
- With pre-assembled mounting bracket.
- No need for assembly from the inside.
- In closed position the lever latch cannot be disassembled.
- Vibration-proof according to DIN EN 61373.
- Adjustment of the H-dimension from 0 to 40mm.
- Lockable lever latches with stainless dust-sutter.
- Adjusting the H-dimension is not necessary anymore because of the spring bolt which is spring-loaded.
- No need for readjusting if the pressure of the sealing decreases.

Materials

- **Compression lever latch:** zinc die, black, powder coated
- **Clamp:** steel, zinc plated
- **Spring bolt and Spring:** stainless steel

Remarks

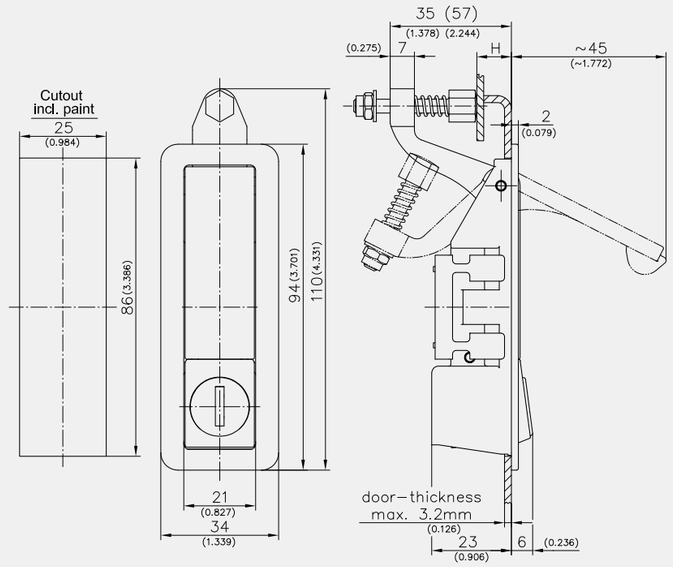
Installation:

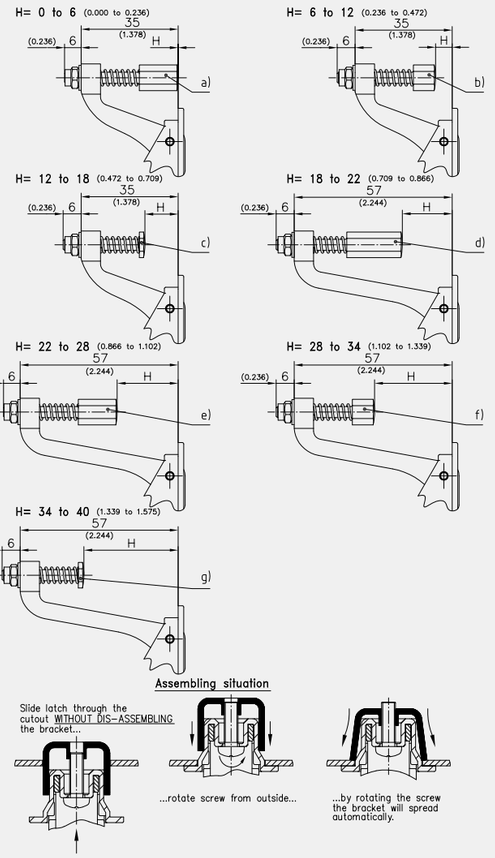
1. The complete latch can be installed in the cutout from the front.

2. By turning the screw (PH2) from the outside, the mounting bracket spreads and fixes the latch in the door panel.

3. The latch is securely fastened by the mounting backet in the cutout.

4. By closing the lever the door is pulled against the frame.





Compression Lever Latch, without lock

	Part Number	Door-thickness	variable H-dimension	Vibration-proof	Installation type
a)	282-9413.00-00003	max. 3.2 mm	0 - 6 mm	Yes	screw-on
b)	282-9413.00-00009	max. 3.2 mm	6 - 12 mm	Yes	screw-on
c)	282-9413.00-00015	max. 3.2 mm	12 - 18 mm	Yes	screw-on
d)	282-9413.00-00020	max. 3.2 mm	18 - 22 mm	Yes	screw-on
e)	282-9413.00-00025	max. 3.2 mm	22 - 28 mm	Yes	screw-on
f)	282-9413.00-00031	max. 3.2 mm	28 - 34 mm	Yes	screw-on
g)	282-9413.00-00037	max. 3.2 mm	34 - 40 mm	Yes	screw-on

Compression Lever Latch, lockable

	Part Number	Door-thickness	variable H-dimension	Latching type	Vibration-proof	Installation type
a)	282-9414.00-00003	max. 3.2 mm	0 - 6 mm	keyed alike DIRAK 1333	Yes	screw-on
a)	282-9415.00-00003	max. 3.2 mm	0 - 6 mm	keyed different	Yes	screw-on
b)	282-9414.00-00009	max. 3.2 mm	6 - 12 mm	keyed alike DIRAK 1333	Yes	screw-on
b)	282-9415.00-00009	max. 3.2 mm	6 - 12 mm	keyed different	Yes	screw-on
c)	282-9414.00-00015	max. 3.2 mm	12 - 18 mm	keyed alike DIRAK 1333	Yes	screw-on
c)	282-9415.00-00015	max. 3.2 mm	12 - 18 mm	keyed different	Yes	screw-on
d)	282-9414.00-00020	max. 3.2 mm	18 - 22 mm	keyed alike DIRAK 1333	Yes	screw-on
d)	282-9415.00-00020	max. 3.2 mm	18 - 22 mm	keyed different	Yes	screw-on
e)	282-9414.00-00025	max. 3.2 mm	22 - 28 mm	keyed alike DIRAK 1333	Yes	screw-on
e)	282-9415.00-00025	max. 3.2 mm	22 - 28 mm	keyed different	Yes	screw-on
f)	282-9414.00-00031	max. 3.2 mm	28 - 34 mm	keyed alike DIRAK 1333	Yes	screw-on
f)	282-9415.00-00031	max. 3.2 mm	28 - 34 mm	keyed different	Yes	screw-on
g)	282-9414.00-00037	max. 3.2 mm	34 - 40 mm	keyed alike DIRAK 1333	Yes	screw-on
g)	282-9415.00-00037	max. 3.2 mm	34 - 40 mm	keyed different	Yes	screw-on

Compression Lever Latch PA

[6-162]



Advantages

- Flat Compression Lever Latch with release button.
- Tool-less installation, clip-in.
- In closed position the lever latch cannot be disassembled.
- Adjustment of the H-dimension from 0 to 20mm.
- Lockable latches with stainless dust-sutter.
- Screw with rubber bumper avoids damages at the frame.

Materials

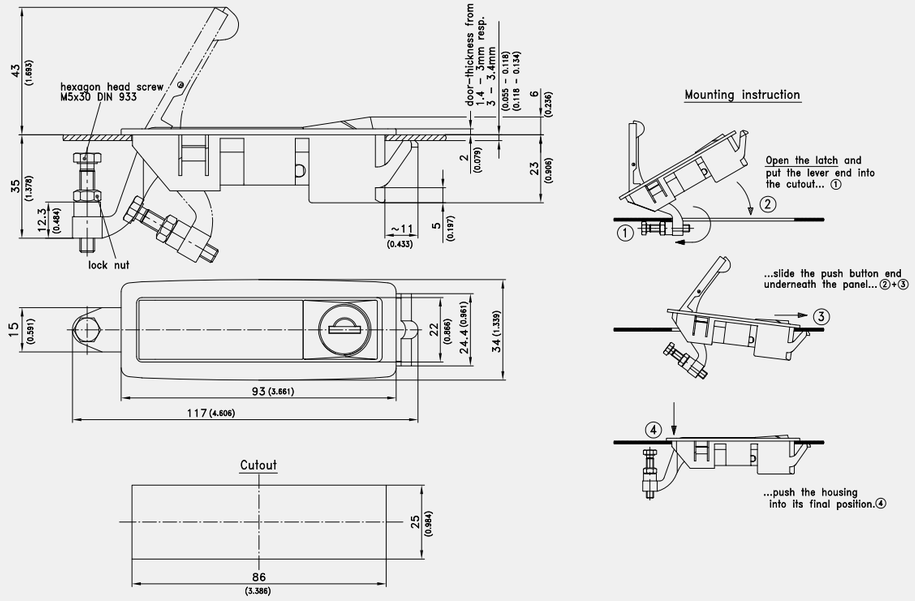
- **Compression lever latch:** PA, black
- **Screw and nut:** steel, zinc plated
- **Spring:** stainless steel

Remarks

Weight:

without lock 40g/1.43 oz,

with lock 55g/2 oz.



Compression Lever Latch, without lock

Part Number	Door-thickness	Installation type
282-9408.00-00000	1.4 - 3.0 mm	tool-less
282-9410.00-00000	3.0 - 3.4 mm	tool-less

Compression Lever Latch, lockable

Part Number	Door-thickness	Latching type	Installation type
282-9407.00-00000	1.4 - 3.0 mm	keyed alike DIRAK 1333	tool-less
282-9409.00-00000	1.4 - 3.0 mm	keyed different	tool-less
282-9411.00-00000	3.0 - 3.4 mm	keyed alike DIRAK 1333	tool-less
282-9412.00-00000	3.0 - 3.4 mm	keyed different	tool-less

Compression Lever Latch

[6-167]



Advantages

- Flat Compression Lever Latch with handle plate.
- Handle plate with release button.
- Including pre-assembled mounting bracket.
- No need for assembly from the inside.
- No loose parts.
- In closed position the latch cannot be disassembled.
- Easy adjustment of the H-dimension from 31 to 43mm (1.)
- IP66 according to DIN EN 60529.
- Foamed sealing (captive).

Materials

- **Compression lever latch:** zinc die, black textured powder coated
- **Mounting bracket and screw:** steel, zinc plated

Remarks

1. = H-dimension

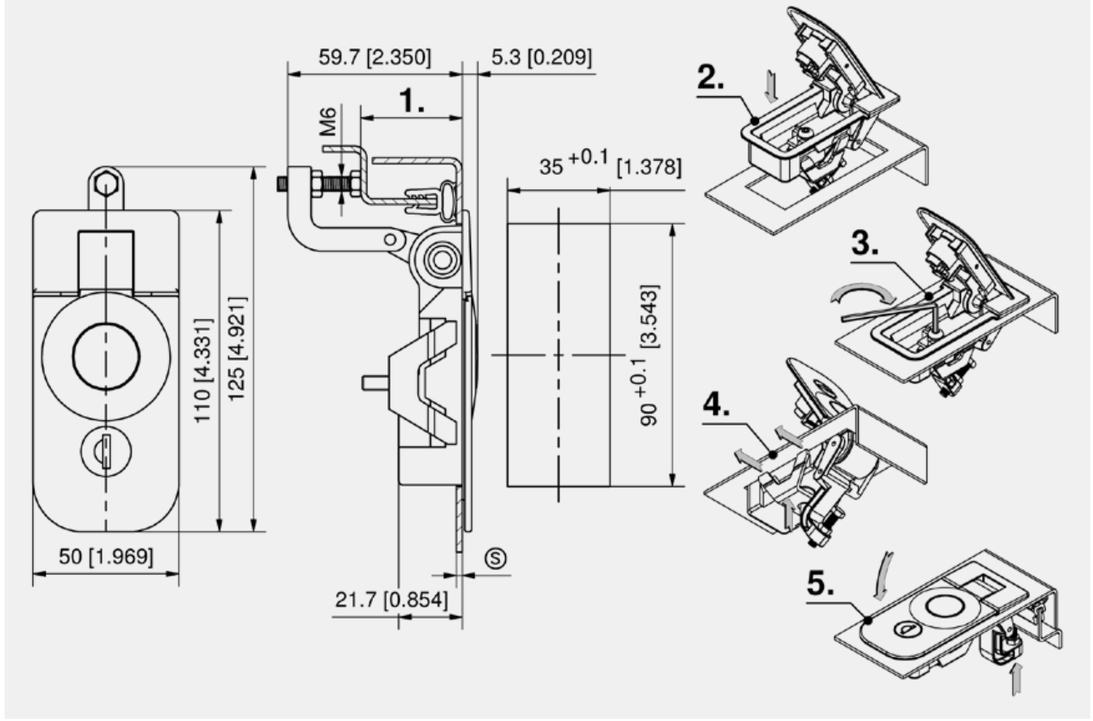
Installation:

2. The complete latch can be installed in the cutout from the front.

3. By turning the screw (socket hex. SW3) from the outside, the mounting bracket spreads and fixes the latch in the door panel.

4. The latch is securely fastened by the mounting backet in the cutout.

5. By closing the lever the door is pulled against the frame.



Compression Lever Latch, lockable

Part Number	variable H-dimension	Latching type
353-2052.00-00001	31 - 43 mm	keyed alike DIRAK 1333

Compression Latch PA

[6-166]

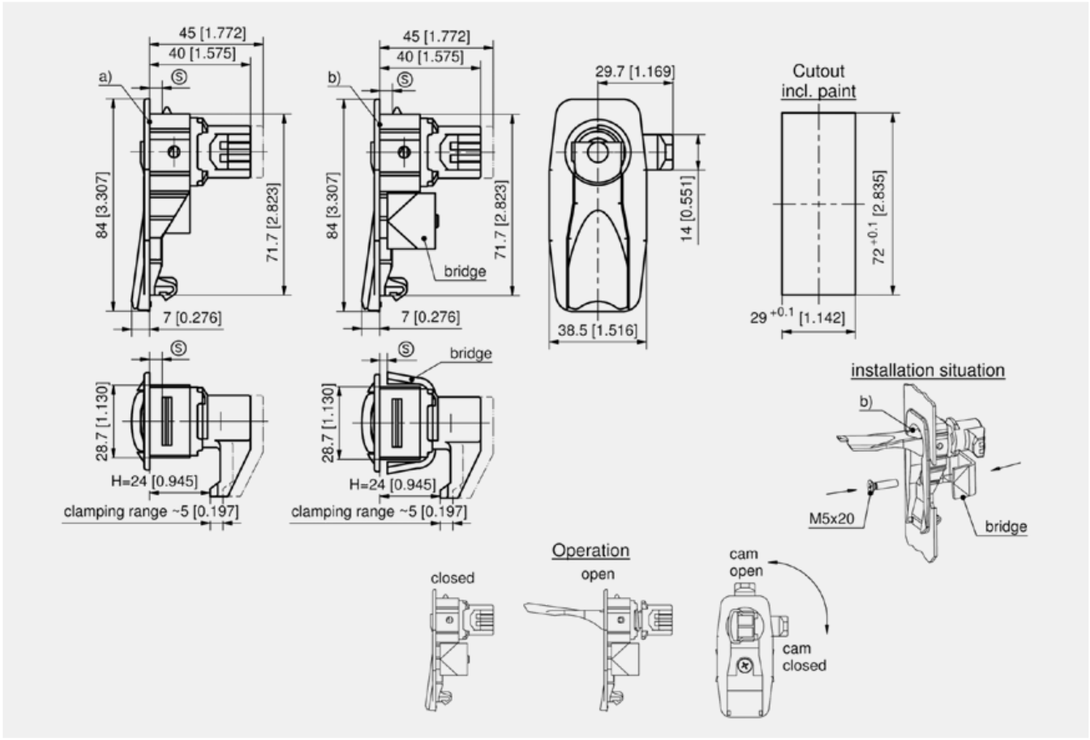


Advantages

- Clip-in, lever actuation compression latch.
- Release = lift lever and turn.
- Close = turn and fold lever down.
- When closed, the cam is held in place using detents.
- **Clip-in version**
- The latch comes pre-assembled and can be installed into the cutout.
- (S) = 5 /0.197 to 5.5 mm/0.217.
- **Screw-on version**
- With the bridge and a M5 x 20 countersunk screw, a (S) -dimension of 0 to 3.5 mm / 0 to 0.138 inch can be achieved.

Materials

- **Compression latch:** PA, black
- **Spring:** spring steel
- **Pin, Bridge and screw:** steel, zinc plated



Compression Latch, clip-in version

	Part Number	Version	H-dimension	Compression	Installation type
a)	282-9008.00-00000	left door	24 mm	5 mm	tool-less
a)	282-9009.00-00000	right door	24 mm	5 mm	tool-less

Compression Latch, screw-on version

	Part Number	Version	H-dimension	Compression	Installation type
b)	282-9010.00-00000	left door	24 mm	5 mm	screw-on
b)	282-9011.00-00000	right door	24 mm	5 mm	screw-on

Latches



L-Handle M10 for Padlock Stainless Steel

See page 466

Compression Latch

[1-205]



Advantages

- Compression Latch in two different versions.
- Compression 7mm.
- **Version A:** the H-dimension can be adjusted on the square threaded rod with the included nuts by +/- 20mm.
- Use of cams c).
- **Version B:** the H-dimension can be varied via the cranking of the cams.
- Use of cams d).
- The cams can be installed in four positions by rotating them 90°.
- Installation with rivets or screws.
- IP65 according to DIN EN 60529 with: flat seal 200-0902.

Materials

a) and b)

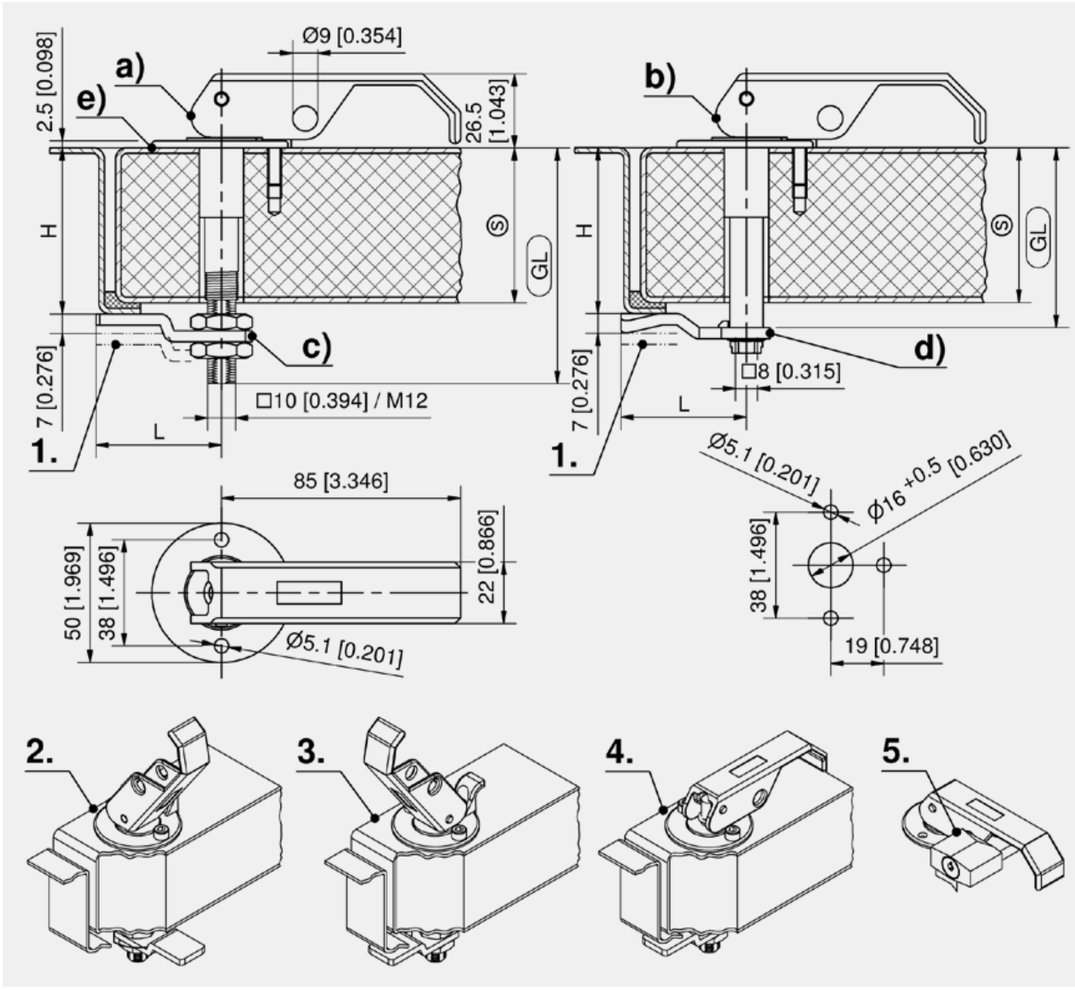
- **Compression latch:** zinc die, black or zinc plated
- **Shaft:** steel, zinc plated

c) and d)

- **Cams:** steel, zinc plated

Remarks

1. Compression 7mm
2. Open position
3. Cam behind the locking surface
4. By folding of the handle the cam is tightened at the locking surface
5. Lockable with padlock



d) Cam (e.g. L=45mm/1.772inch)					
Frame size H at TS max.	42/1.654	62/2.441	82/3.228	102/4.016	Part No.
	32/1.260	52/2.047	72/2.835	92/3.622	200-0404
	34/1.339	54/2.126	74/2.913	94/3.701	200-0406
	36/1.417	56/2.205	76/2.992	96/3.780	200-0408
	38/1.496	58/2.283	78/3.071	98/3.858	200-0410
	41/1.614	61/2.402	81/3.189	101/3.976	200-0413
	42/1.654	62/2.441	82/3.228	102/4.016	200-0414
	44/1.732	64/2.520	84/3.307	104/4.094	200-0416
	46/1.811	66/2.598	86/3.386	106/4.173	200-0418
	48/1.890	68/2.677	88/3.465	108/4.252	200-0420
	50/1.969	70/2.756	90/3.543	110/4.331	200-0422
	52/2.047	72/2.835	92/3.622	112/4.409	200-0424
	54/2.216	74/2.913	94/3.701	114/4.488	200-0426

Compression Latch, zinc die, black, version a)

	Part Number	Door-thickness	variable H-dimension	Compression	Installation type
a)	200-9935.00-00000	max. 50 mm	30 - 60 mm	7	screw-on
a)	200-9936.00-00000	max. 70 mm	50 - 80 mm	7	screw-on
a)	200-9937.00-00000	max. 90 mm	70 - 100 mm	7	screw-on
a)	200-9938.00-00000	max. 110 mm	90 - 120 mm	7	screw-on

Compression Latch, zinc die, zinc plated, version a)

	Part Number	Door-thickness	variable H-dimension	Compression	Installation type
a)	200-9939.00-00000	max. 50 mm	30 - 60 mm	7	screw-on
a)	200-9940.00-00000	max. 70 mm	50 - 80 mm	7	screw-on
a)	200-9941.00-00000	max. 90 mm	70 - 100 mm	7	screw-on
a)	200-9942.00-00000	max. 110 mm	90 - 120 mm	7	screw-on

Compression Latch, zinc die, black, version b)

	Part Number	Door-thickness	variable H-dimension	Compression	Installation type
b)	200-9916.00-00000	max. 42 mm	32 - 54 mm	7	screw-on
b)	200-9918.00-00000	max. 62 mm	52 - 74 mm	7	screw-on
b)	200-9920.00-00000	max. 82 mm	72 - 94 mm	7	screw-on
b)	200-9922.00-00000	max. 102 mm	92 - 114 mm	7	screw-on

Compression Latch, zinc die, zinc plated, version b)

	Part Number	Door-thickness	variable H-dimension	Compression	Installation type
b)	200-9926.00-00000	max. 42 mm	32 - 54 mm	7	screw-on
b)	200-9928.00-00000	max. 62 mm	52 - 74 mm	7	screw-on
b)	200-9930.00-00000	max. 82 mm	72 - 94 mm	7	screw-on
b)	200-9932.00-00000	max. 102 mm	92 - 114 mm	7	screw-on

Cam, straight

	Part Number	Length	Material	Surface
c)	200-5508.00-00045	45 mm	zinc die	zinc plated
c)	200-5508.00-00060	60 mm	zinc die	zinc plated
c)	200-5508.00-00065	65 mm	zinc die	zinc plated

Cam, cranked

	Part Number	Length	Material	Surface
c)	200-5507.00-00045	45 mm	zinc die	zinc plated
c)	200-5507.00-00060	60 mm	zinc die	zinc plated

+	Accessories
d)	160 1-102 **Cams L35/45 steel**
d)	167 1-262 **Cam variable**
e)	200-0902.00-00000 **Flat external seal Ø17mm / 22mm**

Heavy Duty Latch System for HVAC applications [6-280]

R L

IP 65

RoHS WEEE



Advantages

- Handle outside.
- Without lock, with cylinder barrel or insert.
- Suitable for different door thicknesses.
- IP65 according to DIN EN 60529 by sealing kit.
- Outout see product system 6-280.05.
- Handle inside see product system 6-280.01.
- Shafts see product system 6-280.02.
- Cams see product system 6-280.03.
- Compression cam see product system 6-280.04.
- Bezels and sealing kits see product system 6-280.05.

Materials

a), a2) and a3)

- **Handle:** PA, black

a1)

- **Handle:** PA, black / steel, zinc plated

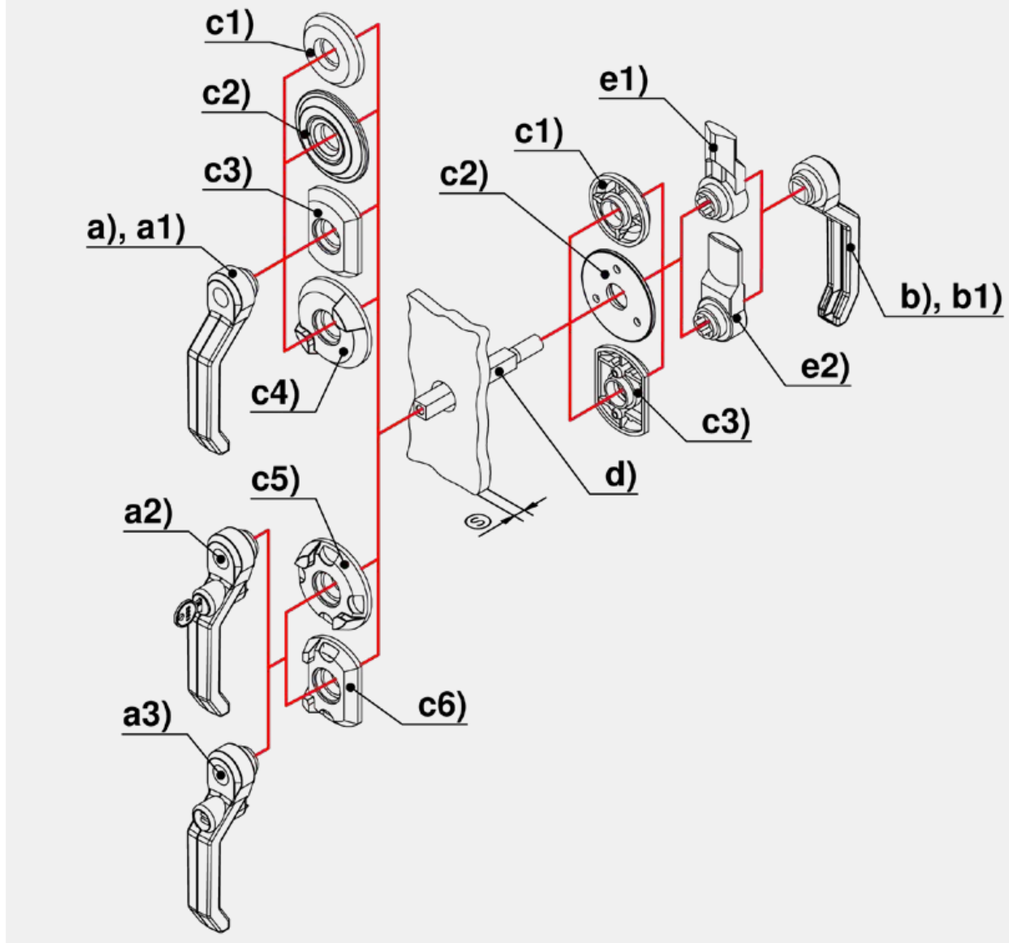
a3)

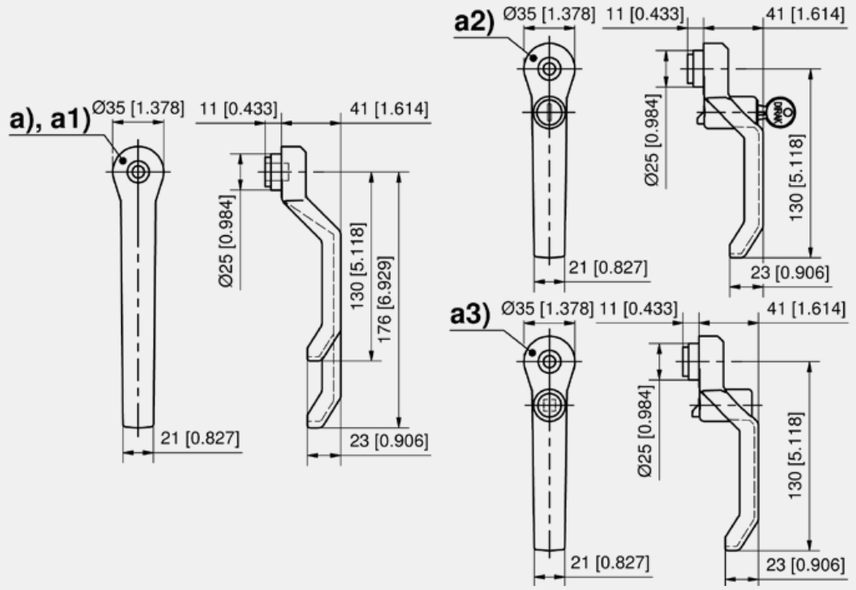
- **Insert:** zinc die, chrome plated

Remarks

Fastening with cylinder head screws M8.

Lockable handles, keyed alike, are equipped with stainless steel dust-shutter.





Handle without lock

	Part Number	Handle length
a)	232-0201.00-00000	130 mm
a)	232-0202.00-00000	176 mm
a1)	232-0207.00-00000	130 mm
a1)	232-0208.00-00000	176 mm

Handle with cylinder

	Part Number	Handle length	Latching type
a2)	232-9303.00-00000	130 mm	keyed alike DIRAK 1333
a2)	532-9303.00-00000	130 mm	keyed alike DS200
a2)	232-9304.00-00000	130 mm	keyed different

Handle with insert

	Part Number	Handle length	Insert
a3)	232-9401.00-00000	130 mm	Square 6mm
a3)	232-9402.00-00000	130 mm	Square 7mm
a3)	232-9403.00-00000	130 mm	Square 8mm
a3)	232-9404.00-00000	130 mm	Square 8mm, slotted
a3)	232-9405.00-00000	130 mm	Triangular 6.5mm CNOMO
a3)	232-9406.00-00000	130 mm	Triangular 7mm
a3)	232-9407.00-00000	130 mm	Triangular 8mm
a3)	232-9408.00-00000	130 mm	Triangular 6.5mm CNOMO
a3)	232-9409.00-00000	130 mm	Double bit 3mm pin
a3)	232-9410.00-00000	130 mm	Double bit 5mm pin
a3)	232-9411.00-00000	130 mm	Socket hex. 6mm
a3)	232-9412.00-00000	130 mm	Socket hex. 10mm
a3)	232-9413.00-00000	130 mm	Square socket 6mm
a3)	232-9414.00-00000	130 mm	Square socket 7mm
a3)	232-9415.00-00000	130 mm	Square socket 8mm
a3)	232-9416.00-00000	130 mm	Daimler Benz type
a3)	232-9417.00-00000	130 mm	Slotted 2x4mm
a3)	232-9418.00-00000	130 mm	Crown type
a3)	232-9419.00-00000	130 mm	Slotted insert
a3)	232-9420.00-00000	130 mm	Crescent czech

		Specific accessories
c1)-c6)	462	6-280.05 **Bezels for heavy duty latches**
b)-b1)	458	6-280.01 **Handle inside, for heavy duty latch system**
d)	459	6-280.02 **Shafts for Heavy Duty Latches**
e1)-e2)	460	6-280.03 **Cams for Heavy Duty Latches**
f1)-f3)	461	6-280.04 **Compression Cam for Heavy Duty Latches**

Handle inside, for heavy duty latch system [6-280.01]

R L

IP 65

RoHS WEEE



Advantages

- Handle for opening from inside.
- Handle outside see product system 6-280.
- Shafts see product system 6-280.02.
- Cams see product system 6-280.03.
- Compression cam see product system 6-280.04.
- Bezels and sealing kits see product system 6-280.05.

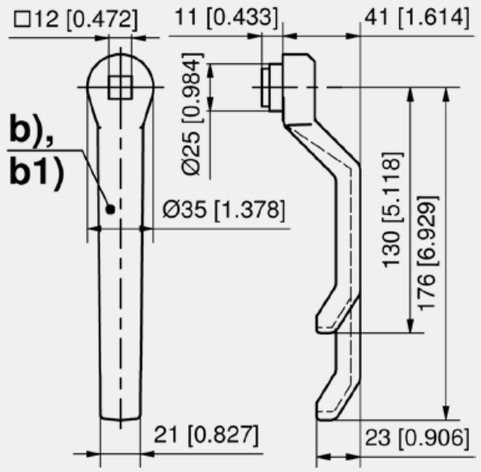
Materials

b)

- **Handle :** PA, black

b1)

- **Handle:** PA, black / steel, zinc plated



Handle inside

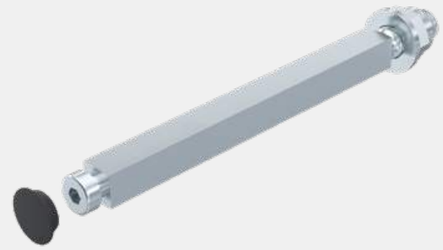
	Part Number	Handle length	Material	Installation type
b)	232-0301.00-00000	130 mm	PA	attachable on shaft 12x12
b)	232-0302.00-00000	176 mm	PA	attachable on shaft 12x12
b1)	232-0303.00-00000	130 mm	PA with steel core	attachable on shaft 12x12
b1)	232-0304.00-00000	176 mm	PA with steel core	attachable on shaft 12x12

	Specific accessories
462	6-280.05 **Bezels for heavy duty latches**
456	6-280 **Heavy Duty Latch System for HVAC applications**
459	6-280.02 **Shafts for Heavy Duty Latches**
460	6-280.03 **Cams for Heavy Duty Latches**
461	6-280.04 **Compression Cam for Heavy Duty Latches**

Shafts for Heavy Duty Latches [6-280.02]

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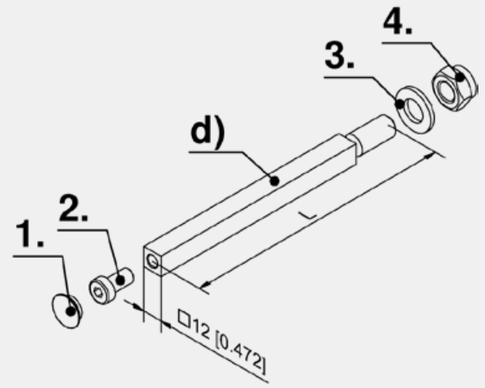


Advantages

- Shaft 12 x 12 consisting off: 1. cover, 2. fastening screw at the front M8, 3. washer and fastening nut inside M12.
- Handle outside see product system 6-280.
- Handle inside see product system 6-280.01.
- Cams see product system 6-280.03.
- Compression cam see product system 6-280.04.
- Bezels and sealing kits see product system 6-280.05.

Materials

- **1.:** PA, black
- **2., 3., 4. and shaft:** steel, zinc plated



Shafts

	Part Number	Length	Heavy duty latch (without inside handle) door thickness	Heavy duty latch with cam and inside handle door thickness	Heavy duty latch with compression cam (without inside handle, with spacer) door thickness	Heavy duty latch with compression cam and inside handle door thickness
d)	232-9101.00-00000	82 mm	20 + / - 10			
d)	232-9102.00-00000	92 mm	30 + / - 10			
d)	232-9103.00-00000	102 mm	40 + / - 10	20 + / - 5	20 + / - 5	20 + / - 5
d)	232-9104.00-00000	112 mm	50 + / - 10	30 + /- 5	30 + /- 5	30 + /- 5
d)	232-9105.00-00000	122 mm	60 + / - 10	40 + / - 5	40 + / - 5	40 + / - 5
d)	232-9106.00-00000	132 mm	70 + / - 10	50 + / - 5	50 + / - 5	50 + / - 5
d)	232-9107.00-00000	142 mm	80 + / - 10	60 + / - 5	60 + / - 5	60 + / - 5
d)	232-9109.00-00000	162 mm	100 + / - 10	80 + / - 5	80 + / - 5	80 + / - 5
d)	232-9111.00-00000	182 mm	120 + / - 10	100 + / - 5	100 + / - 5	100 + / - 5

	Specific accessories
462	6-280.05 **Bezels for heavy duty latches**
458	6-280.01 **Handle inside, for heavy duty latch system**
456	6-280 **Heavy Duty Latch System for HVAC applications**
460	6-280.03 **Cams for Heavy Duty Latches**
461	6-280.04 **Compression Cam for Heavy Duty Latches**

Cams for Heavy Duty Latches [6-280.03]

IP 65

RoHS WEEE

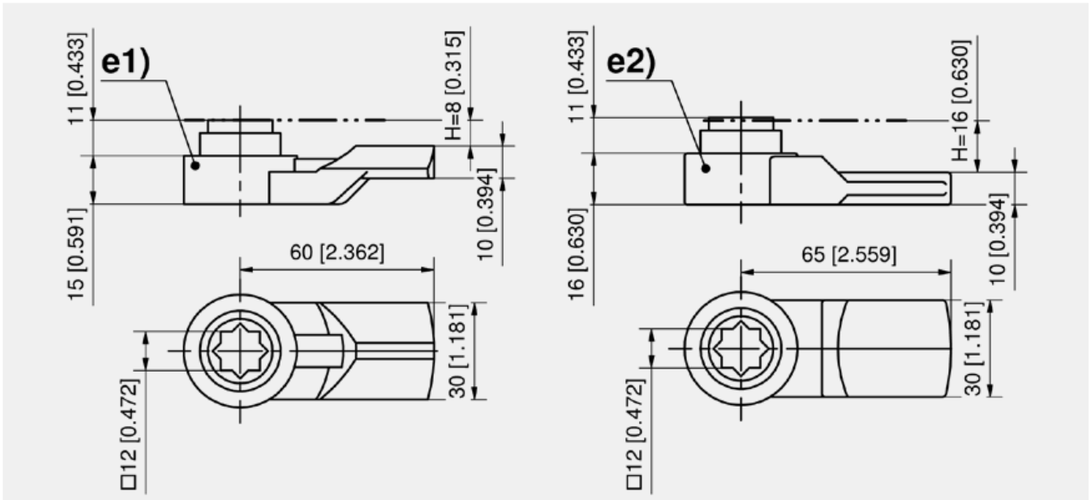


Advantages

- 8 x 45° adjustable.
- Handle outside see product system 6-280.
- Handle inside see product system 6-280.01.
- Shafts see product system 6-280.02.
- Bezels and sealing kits see product system 6-280.05.

Materials

- **Cams:** zinc die, zinc plated



Cams

	Part Number	Height H	Length
e1)	232-0501.00-00000	8 mm	60 mm
e2)	232-0502.00-00000	16 mm	65 mm

Specific accessories

462 6-280.05 **Bezels for heavy duty latches**
458 6-280.01 **Handle inside, for heavy duty latch system**
456 6-280 **Heavy Duty Latch System for HVAC applications**
459 6-280.02 **Shafts for Heavy Duty Latches**

Compression Cam for Heavy Duty Latches [6-280.04]

IP 65

RoHS WEEE

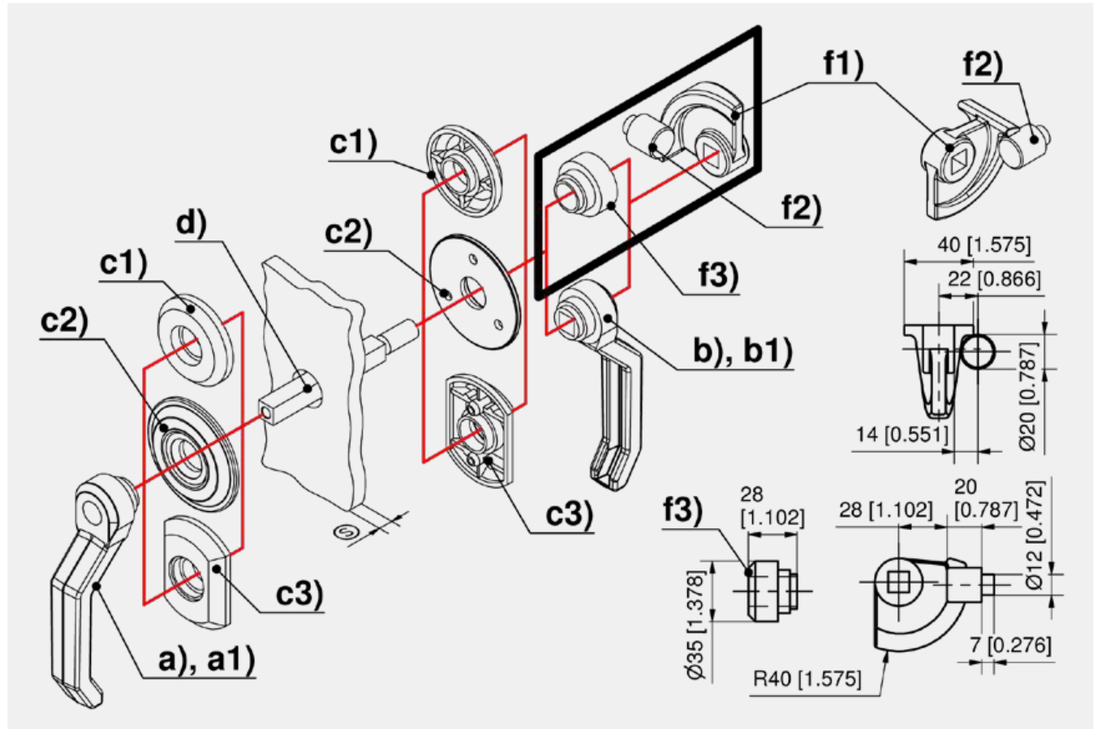


Advantages

- Compression 6mm.
- Handle outside see product system 6-280.
- Handle inside see product system 6-280.01.
- Shafts see product system 6-280.02.
- Bezels and sealing kits see product system 6-280.05.

Materials

- **Compression cam:** aluminum, untreated
- **Locking pin and spacer:** steel, zinc plated



Compression cam and accessories

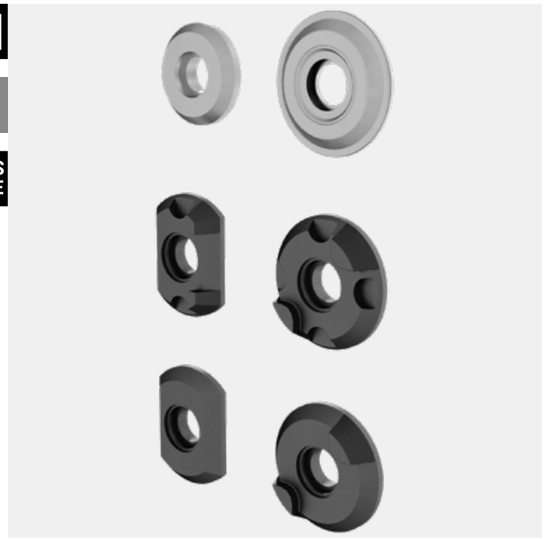
	Part Number	Name	Version
f1)	232-0601.00-00000	Compression cam	
f2)	232-0801.00-00000	Locking pin	suitable for compression cam
f3)	232-0701.00-00000	Spacer	when used without inside handle

Specific accessories

462 6-280.05 **Bezels for heavy duty latches**
458 6-280.01 **Handle inside, for heavy duty latch system**
456 6-280 **Heavy Duty Latch System for HVAC applications**
459 6-280.02 **Shafts for Heavy Duty Latches**

Bezels for heavy duty latches

[6-280.05]



Advantages

- Bezels round and oblong.
- With and without stop.
- With or without latch recesses.
- Handle outside see product system 6-280.
- Handle inside see product system 6-280.01.
- Shafts see product system 6-280.02.

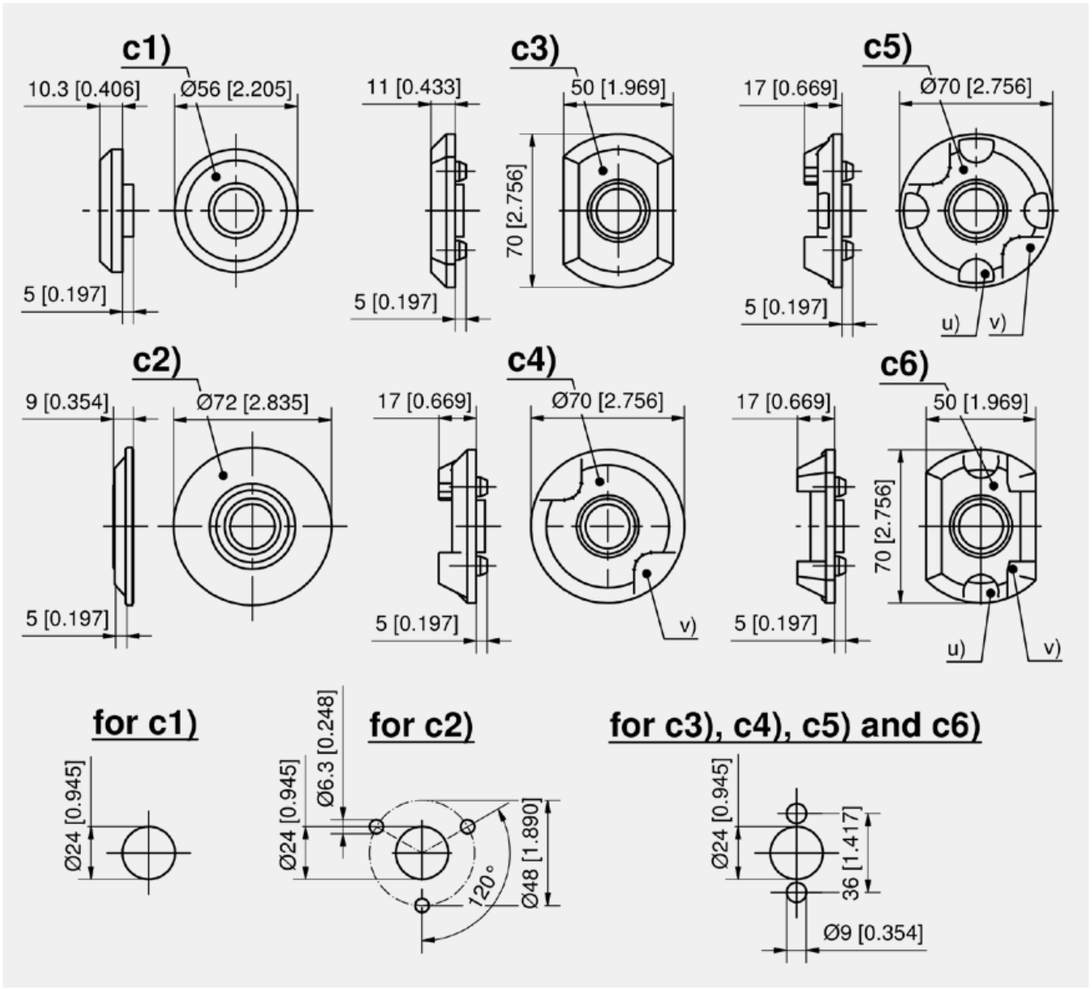
Materials

- **Bezels:** PA, black or steel, zinc plated
- **Flat seal:** EPDM, black

Remarks

u) latch recess

v) stop



Bezels

	Part Number	Name	Version	for Handle	Material	Surface
c1)	232-0401.00-00000	Bezel round	without stop	a), a1), b), b1)	PA	black
c2)	232-9141.00-00000	Bezel round with bearing plate	without stop, 2-part	a), a1), b), b1)	steel	zinc plated
c3)	232-0402.00-00000	Bezel oblong	without stop	a), a1), b), b1)	PA	black
c4)	232-0410.03-00000	Bezel round	stop 90°	a), a1), b), b1)	PA	black
c5)	232-0410.00-00001	Bezel round	stop 90°, 4 latches	a2), a3)	PA	black
c6)	232-0409.00-00000	Bezel oblong	stop 180°, 2 latches	a2), a3)	PA	black

Sealing kit

Part Number	Name	Material	Surface
232-8710-00-01401	Sealing kit for oblong bezels	EPDM	black
232-8710.00-01402	Sealing kit for round bezels	EPDM	black

	Specific accessories
458	6-280.01 **Handle inside, for heavy duty latch system**
456	6-280 **Heavy Duty Latch System for HVAC applications**
459	6-280.02 **Shafts for Heavy Duty Latches**
460	6-280.03 **Cams for Heavy Duty Latches**
461	6-280.04 **Compression Cam for Heavy Duty Latches**

Bridge Clamp

[6-140]

RoHS WEEE

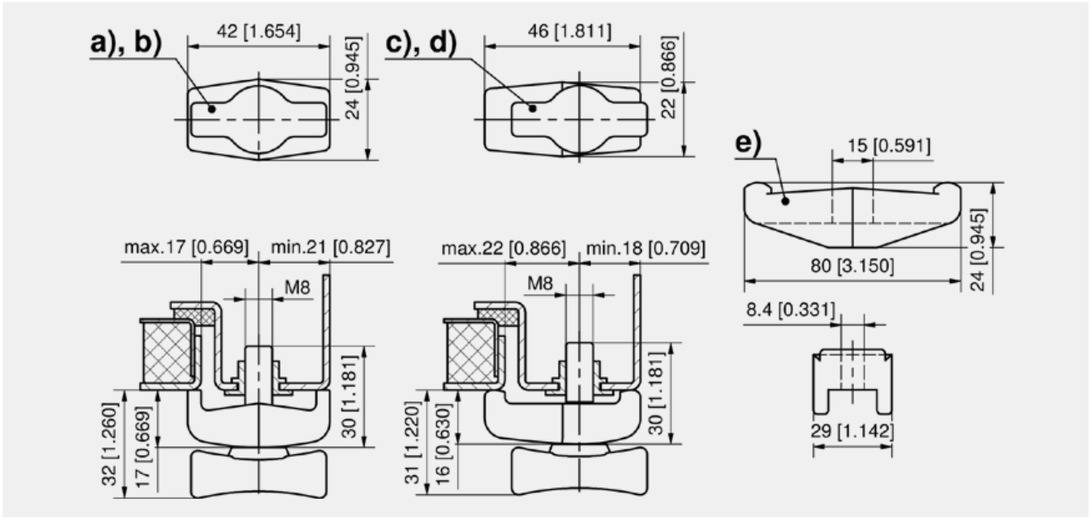


Advantages

- Application in air conditioning technology.
- b) and d) captive by O-ring.

Materials

- **Bridge clamp:** PA, black
- **Tommy screw:** PA, black / steel, zinc plated



Bridge Clamp

	Part Number	Variant	Version	Installation type
a)	214-9002.00-00000	symmetrical with screw M8		screw-on
b)	214-9002.00-00001	symmetrical with screw M8	captive	screw-on
c)	214-9003.00-00000	asymmetrical with screw M8		screw-on
d)	214-9003.00-00001	asymmetrical with screw M8	captive	screw-on
e)	214-0103.03-00000	symmetrical and reinforced for clamping two doors	for socket-head screw M8	screw-on

Compression Lever Latch

[6-270]

RoHS WEEE



with cam

Advantages

- Heavy Duty Handle.
- RH or LH application.
- Cam can be turned over and can be fastened at any 45° angle.

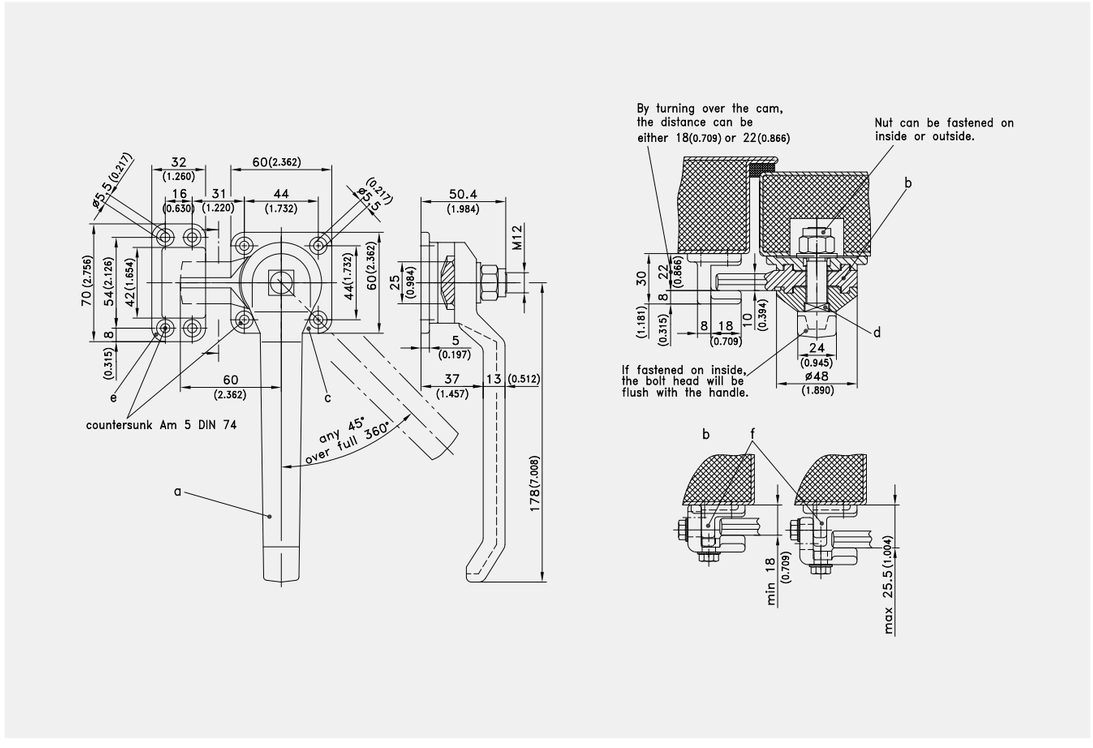
Materials

a), b), c), e) and f)

- **Handle, cam, base plate and hook:** EN-GJMW-400-5 DIN EN 1562, zinc plated

d)

- **Shaft:** steel, zinc plated



Compression Lever Latch

	Part Number	Installation type
a)-d)	232-9001.00-00000	screw-on

	Accessories
e)	232-1201.00-00000 **Look hook**
f)	232-9201.00-00000 **Look hook, adjustable**

L-Handle M10 for Padlock Stainless Steel [7-073.01]



Advantages

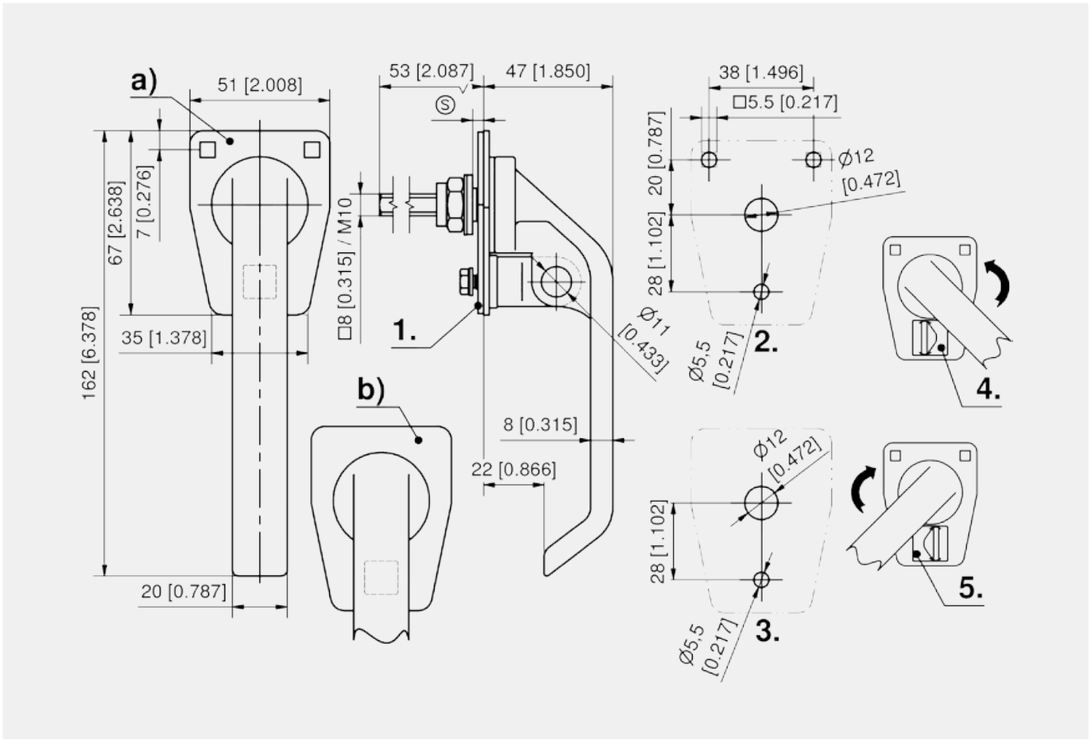
- RH / LH application.
- IP65 according to DIN EN 60529.
- Big padlock eye Ø11mm.
- Version a) with escutcheon and additional fastening holes for screws Ø5mm.
- Version b) with escutcheon without fastening holes.
- Height adjustment of the cams by catch for standard cams 2-151.02 or 3-Point cam adapter adjustable 2-151.01 on square threaded rod M10.

Materials

- **Handle, escutcheon, square threaded rod and padlock eye:** Stainless steel AISI 316
- **Flat external seal:** EPDM
- **Washer:** Teflon

Remarks

1. Flat external seal
2. Cutout version a)
3. Cutout version b)
4. and 5. The padlock eye is asymmetrical. It serves as a stop for RH (4.) / LH (5.) applications.



L-handle with thread M10

	Part Number	Version	Latching type	Installation type
a)	281-9006.00-00000	with fastening holes	padlock	screw-on
b)	281-9007.00-00000	without fastening holes	padlock	screw-on

	Accessories
183	2-151.01 **3-Point Cam Adapter adjustable**
178	2-151.02 **Catch for standard Cams**

L-Handle 3/8" for Padlock Stainless Steel [7-073.02]



Advantages

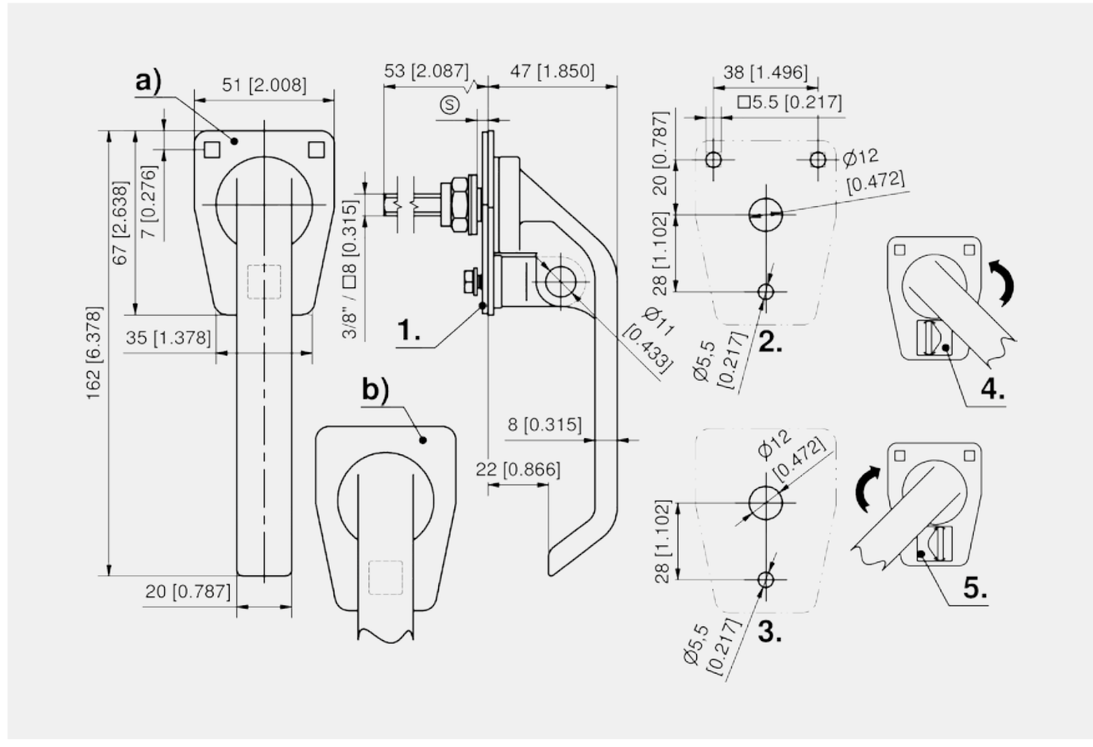
- RH / LH application.
- IP65 according to DIN EN 60529.
- Big padlock eye Ø11mm.
- Version a) with escutcheon and additional fastening holes for screws Ø5mm.
- Version b) with escutcheon without fastening holes.

Materials

- **Handle, escutcheon, square threaded rod and padlock eye:** stainless steel AISI 316
- **Flat external seal:** EPDM
- **Washer:** Teflon

Remarks

1. Flat external seal
2. Cutout version a)
3. Cutout version b)
4. and 5. The padlock eye is asymmetrical. It serves as a stop for RH (4.) / LH (5.) applications.



L-handle with thread 3/8“ – 16 UNC

	Part Number	Version	Latching type	Installation type
a)	281-9006.00-00001	with fastening holes	padlock	screw-on
b)	281-9007.00-00001	without fastening holes	padlock	screw-on

Locking Bar System ☐ 10

[6-320.01]

RoHS WEEE



Locking bar system for heavy doors

Advantages

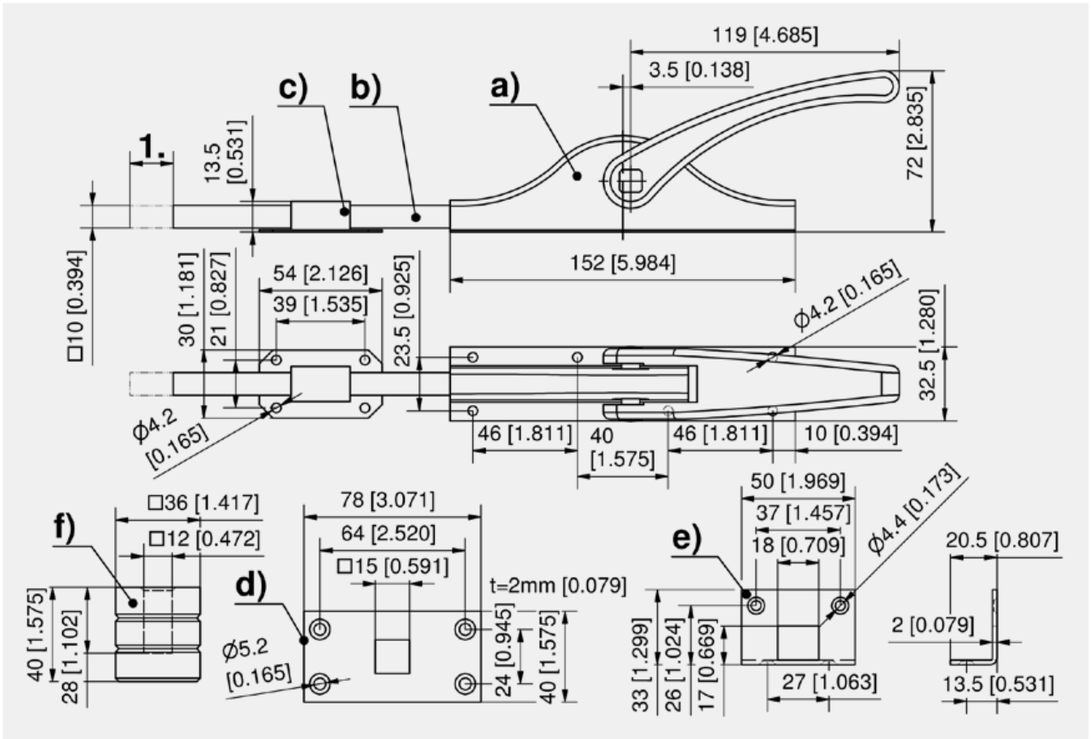
- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.
- Included in the scope of delivery: Locking bar system incl. base plate and 2 rod guides.
- **Please order separately:** Rod one-piece

Materials

- **Handle mechanism with base plate, bar guides and bars:** steel, zinc plated

Remarks

1. Stroke 19mm



Locking bar system incl. base plate and 2 rod guides

	Part Number	Multi-point latches	Installation type
a)	249-9005.00-00000	Yes	screw-on

Accessories

- b) 249-0502.00-00000 **Rod for locking bar system ☐ 10, 2000mm**
- b) 249-0503.00-00000 **Rod for locking bar system ☐ 10, 2500mm**
- b) 249-0504.00-00000 **Rod for locking bar system ☐ 10, 3000mm**
- c) 249-0408.00-00000 **Rod guide for locking bar system ☐ 10**
- e) 249-0301.00-00000 **Bottom plate, angled**

Accessories

- f) 249-0601.00-00000 **Bar latching bushing for concrete, 2 parts**
- d) 249-0204.00-00000 **Bottom plate, straight**

Locking Bar System ☐ 13

[6-320.02]

RoHS WEEE



Locking bar system for heavy doors

Advantages

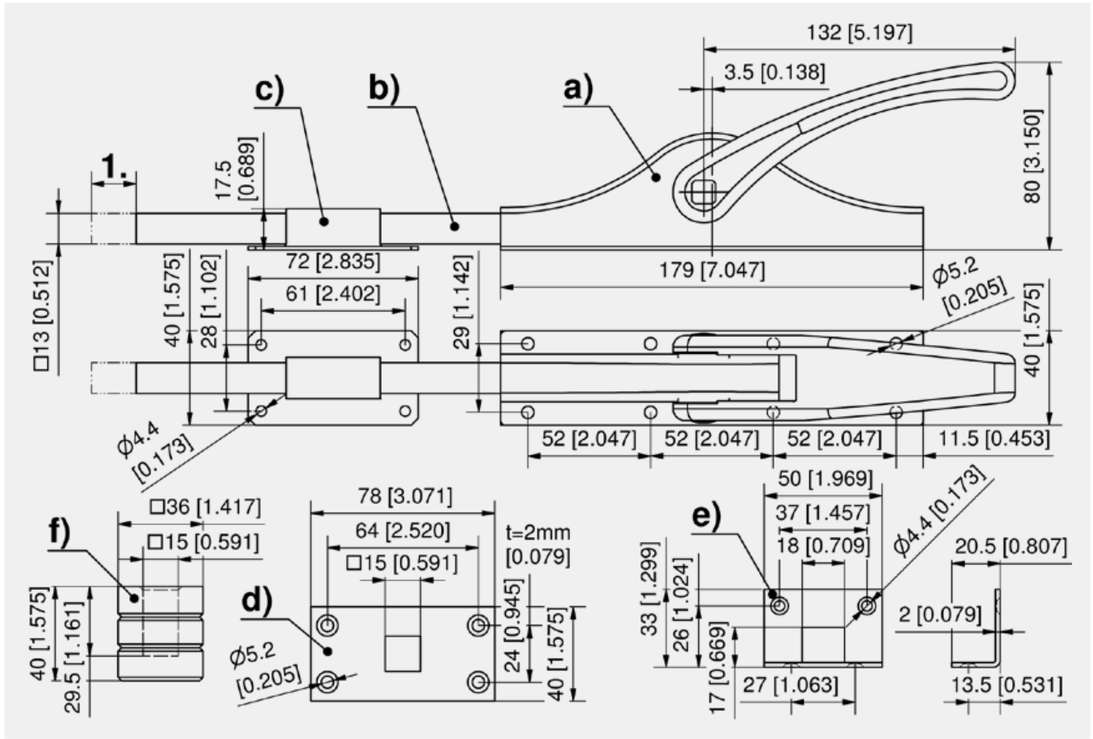
- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.
- Included in the scope of delivery: Locking bar system incl. base plate and 3 rod guides.
- **Please order separately:** Rod one-piece.

Materials

- **Handle:** aluminium
- **Bolt box, base plate, bar guides and bars:** steel, zinc plated

Remarks

1. Stroke 19mm



Locking bar system incl. base plate and 3 rod guides

	Part Number	Multi-point latches	Installation type
a)	249-9105.00-00000	Yes	screw-on

Accessories

- e) 249-0301.00-00000 **Bottom plate, angled**
- b) 249-0505.00-00000 **Rod for locking bar system ☐ 13, 2000mm**
- b) 249-0506.00-00000 **Rod for locking bar system ☐ 13, 2500mm**
- b) 249-0507.00-00000 **Rod for locking bar system ☐ 13, 3000mm**
- c) 249-0409.00-00000 **Rod guide for locking bar system ☐ 13**

Accessories

- d) 249-0204.00-00000 **Bottom plate, straight**
- f) 249-0602.00-00000 **Bar latching bushing for concrete, 2 parts**

Locking Bar System □ 16

[6-320.03]

RoHS WEEE



Locking bar system for heavy doors

Advantages

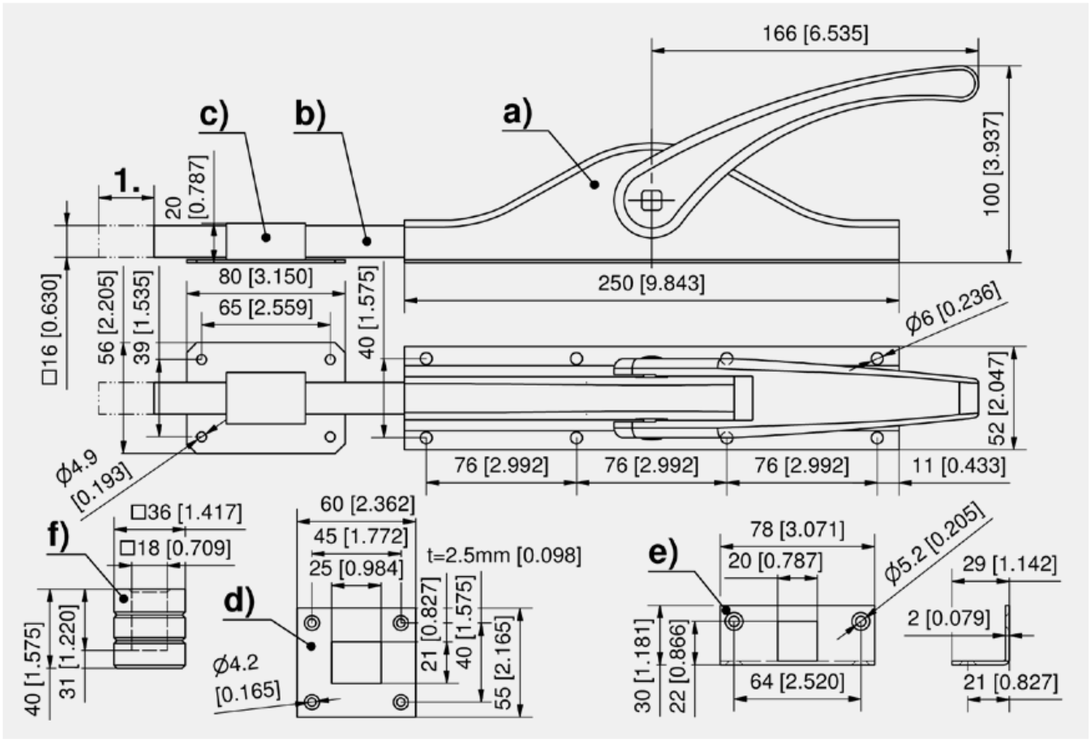
- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.
- Included in the scope of delivery: Locking bar system incl. base plate and 4 rod guides.

Materials

- **Handle:** aluminium
- **Bolt box, base plate, bar guides and bars:** steel, zinc plated

Remarks

1. Stroke 28mm



Locking bar system incl. base plate and 4 rod guides

	Part Number	Multi-point latches	Installation type
a)	249-9205.00-00000	Yes	screw-on

Specific accessories

b) 249-0508.00-00000 **Rod for locking bar system □16, 2000mm**
b) 249-0509.00-00000 **Rod for locking bar system □16, 2500mm**
b) 249-0510.00-00000 **Rod for locking bar system □16, 3000mm**
c) 249-0410.00-00000 **Rod guide for locking bar system □16**
d) 249-0203.00-00000 **Bottom plate, straight**

Specific accessories

e) 249-0304.00-00000 **Bottom plate, angled**
f) 249-0603.00-00000 **Bar latching bushing for concrete, 2 parts**

Latches



Machine Handle for Sliding Doors

See page 472

Machine Handle for Sliding Doors

[6-1680]

R L

RoHS WEEE



Advantages

- This machine handle has been especially designed for sliding doors.
- By pulling on the handle, the hooked cam is disengaged and the lock released.
- Hooked cam with free stroke.
- Mechanical separation of the handle and the hooked cam.
- As handles any Ø30mm tubes in variable lengths can be used.
- The top and bottom latching devices can be used with or without hooked cam.

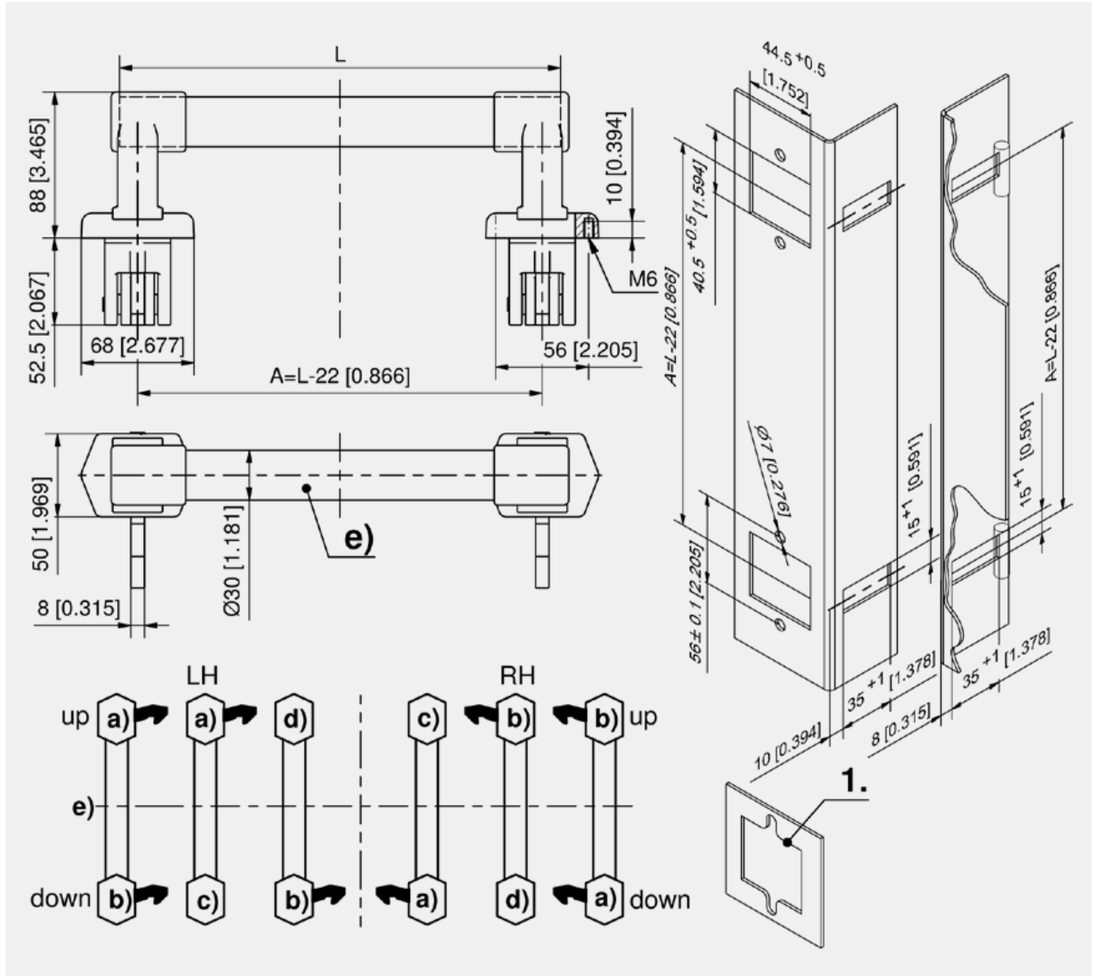
Materials

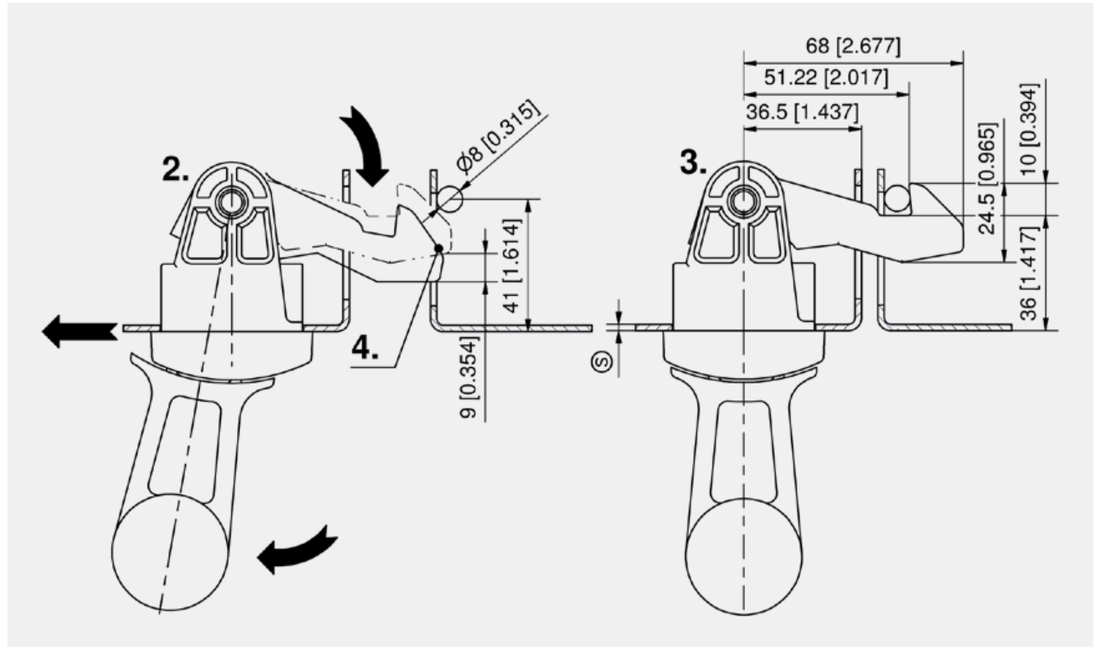
- **Tube housing:** zinc die, black
- **Pins:** brass
- **Spring:** stainless steel
- **Hooked cam:** steel, zinc plated
- **Handle-tube:** steel tube with synthetic coating, black

Remarks

1. Alternative cutout
2. open position
3. closed position
4. stroke 9mm

A = Distance between the center of the cutouts of the endpieces.





Latching device

	Part Number	Version
a)	280-9001.00-00000	with hooked cam
b)	280-9002.00-00000	without hooked cam
c)	280-9003.00-00000	with hooked cam
d)	280-9004.00-00000	without hooked cam

	Accessories
z)	213-0401.00-00000 **Steel tube, 266mm**
z)	213-0402.00-00000 **Steel tube, 366mm**
z)	213-0403.00-00000 **Steel tube, 466mm**
z)	213-0404.00-00000 **Steel tube, 566mm**
z)	213-0405.00-00000 **Steel tube, 666mm**
z)	213-0406.00-00000 **Steel tube, 766mm**

Sliding Door Latch

[1-415]

R L

IP 65

RoHS WEEE



Advantages

- Hooked cam with free stroke.
- Version RH, hook LH.
- Version LH, hook RH.
- Opening angle of the hook 15°.
- Please configure the Sliding Door Latch with escutcheon and insert or T- and L-handle or with swinghandle.

Materials

a)

- **Sliding door latch:** steel, zinc plated
- **Cam:** steel, zinc plated
- **Plug:** PE, black

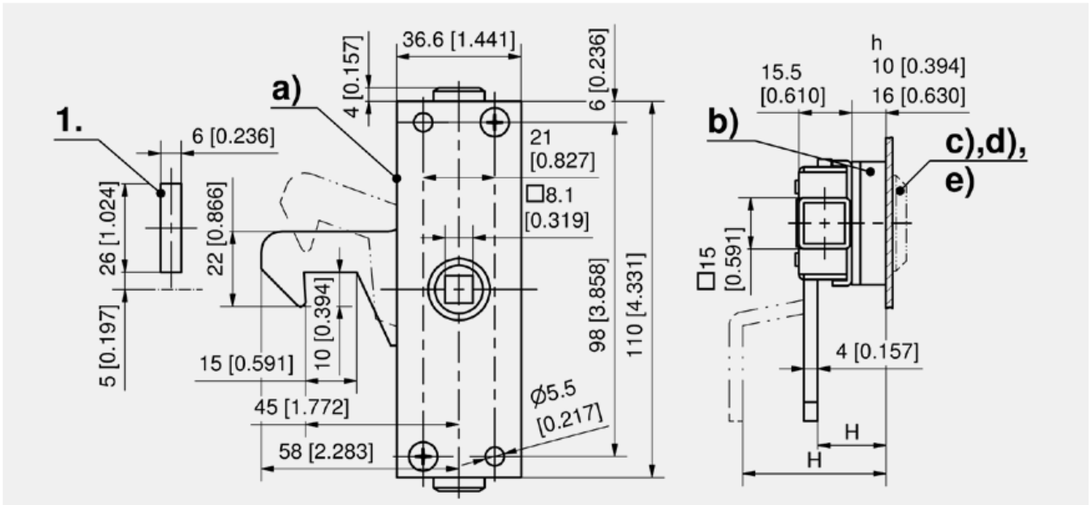
b)

- **Lock support:** steel, zinc plated

Remarks

Please order separately: b) Lock support

1. Example for frame cutout.



Sliding door version LH, slide direction RH

	Part Number	H-dimension without support	H-dimension with lock support A20	H-dimension with lock support A26	Installation type
a)	235-9015.00-00000	10 mm	20 mm	26 mm	screw-on
a)	235-9017.00-00000	32 mm	42 mm	48 mm	screw-on

Sliding door version RH, slide direction LH

	Part Number	H-dimension without support	H-dimension with lock support A20	H-dimension with lock support A26	Installation type
a)	235-9016.00-00000	10 mm	20 mm	26 mm	screw-on
a)	235-9018.00-00000	32 mm	42 mm	48 mm	screw-on

Accessories

d)	208	1-430 **T- and L-Handles for Rod Latches**
e)	266	2-300 **Swinghandle RS 130 for Rod Latch**
c)	207	235-9101.00-00000 **Insert square 6mm**
c)	207	235-9102.00-00000 **Insert square 7mm**
c)	207	235-9103.00-00000 **Insert square 8mm**
c)	207	235-9104.00-00000 **Insert triangular 6.5mm CNOMO**
c)	207	235-9105.00-00000 **Insert triangular 7mm**

Accessories

c)	207	235-9106.00-00000 **Insert triangular 8mm**
c)	207	235-9107.00-00000 **Insert double bit 3mm pin**
c)	207	235-9108.00-00000 **Insert double bit 5mm pin**
c)	207	235-9109.00-00000 **Insert Daimler Benz pin**
b)		235-1002.00-00000 **Lock support A26**
b)		235-1001.00-00000 **Lock support A20**

Pull and Lock Hook

[1-250]



Advantages

- Pull and lock hook with 5mm compression/pulling distance.
- With 90° closing rotation.
- Vibration-proof.
- Latching direction is always clockwise.
- The extremely positive torque ratio allows for controlling this hook-latch by a cylinder latch.
- Very suitable for applications on 19" racks and sliding doors.
- This device can be operated by all quarter-turns L18 with insert or handles.

Materials

a)

- **Pull and lock hook:** steel, zinc plated

b)

- **Locking stub:** steel, zinc plated

c)

- **Line-up fork:** steel, zinc plated

Remarks

1. Open position.

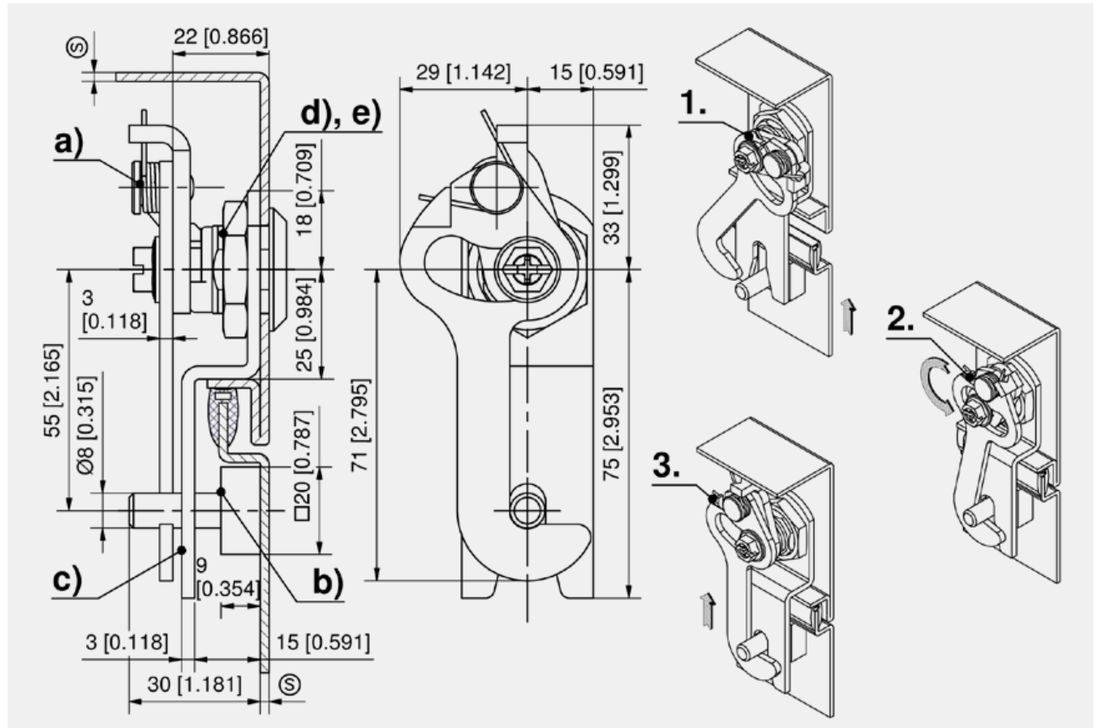
2. Hook catches behind the frame pin and continuing the closing rotation, the hook is then being pulled automatically against the frame pin. The pulling stroke is 5mm [0.197].

3. At the end of rotation process the hook has a vibration proof latch behind the frame pin.

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IP 54

RoHS WEEE



Pull and Lock Hook

Part Number	Name	Compression	Vibration-proof	Installation type
200-9602.00-00000	Pull and Lock Hook	5 mm	Yes	screw-on
200-3704.00-00000	Locking stub for Pull and Lock Hook		No	weld-on
200-3703.00-00000	Line-up fork for Pull and Lock Hook		No	screw-on

Accessories

156		1-101 **Inserts Pr20.1**
80		1-100 **Quarter-Turn Pr20.1 L18**
80		1-100.01 **Quarter-Turn Pr20.1 L18**

Accessories

96		1-120 **Cylinder Quarter-Turn Pr20.1 L18**
110		1-140 **Quarter-Turn with T-Handle Pr20.1 L18**
116		1-150 **Quarter-Turn with L-Handle Pr20.1 L18**

Hinges





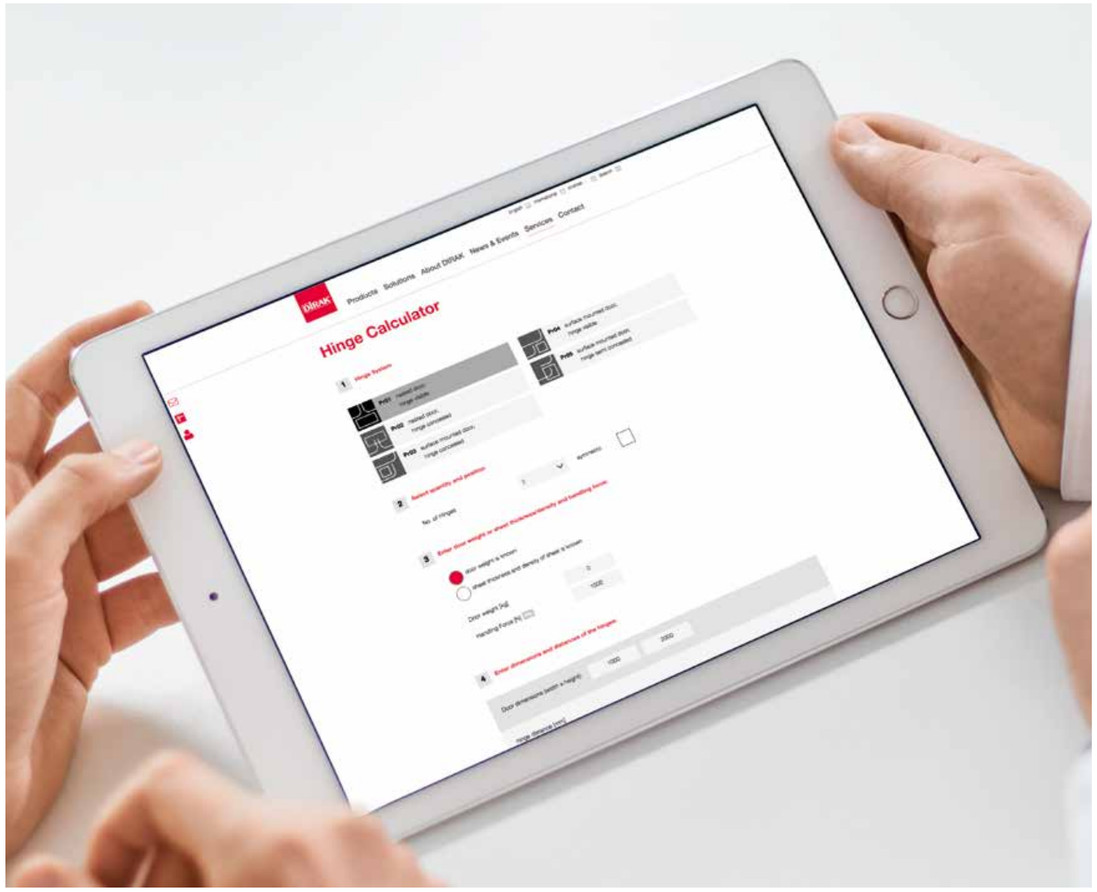
Easy handling.

This hinge enables easy installation and removal of the door by simply pulling back the handle. Additionally, it can be used as a locking pin!

Page 555









Two solutions in one.

Perfect as a simple hinge, but also designed to keep panels in place as a Locking Pin.

Page 400



Take a load off.

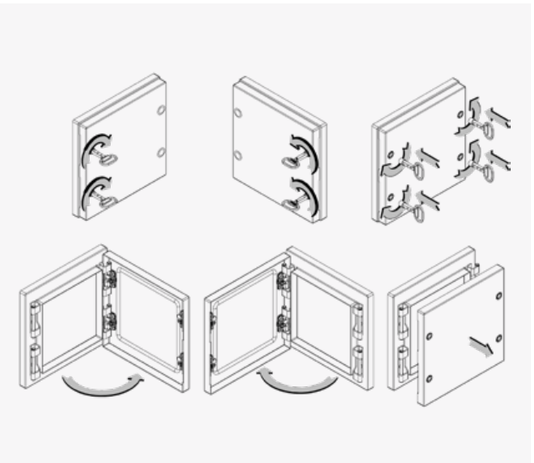
This hinge allows for convenient door removal without the use of tools.

Page 630

DST DIRAK-SNAP-Technology. Simple. Secure.

On the safe side.

Try our **online hinge calculation** tool to receive our recommendations based on the dimensions and weight of YOUR door – not a generic load rating!

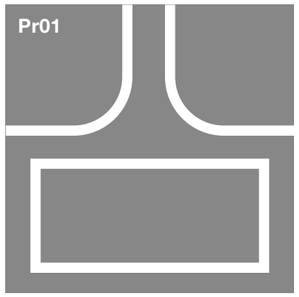


Hinge or latch? Both!

The flush-mounted latch with integrated hinge function is a lock and hinge all in one product and enables the door to be easily removed or opened from either side.

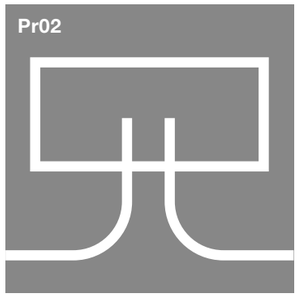
Page 104

Hinges by Program



Nested doors, hinge visible

Page: **486–545, 644–651**



Nested doors, hinge concealed

Page: **546–556**



Surface mounted door, hinge concealed

Page: **558–586**



Surface mounted door, hinge visible

Page: **486, 534–535, 588–613**



Surface mounted door, hinge partly visible

Page: **614–643**



486 Hinge Pr01/04 180° [4-348]



487 Hinge 28x30 Pr01 180° [4-249]



488 DST Hinge 22x30 Pr01 180° [4-249.01DST]



489 DST Hinge 34x30 Pr01 180° [4-249.02DST]



490 DST Hinge 28x30 Pr01 180° [4-249.03DST]



491 DST Hinge 31x30 Pr01 180° [4-249.04DST]



492 DST Hinge 30x25 Pr01 180° [4-249.05DST]



493 Hinge Pr01 180° [4-247]



494 Hinge Halves Pr01 180° [4-247.01]



497 Hinge 40x40 Pr01 180° [4-246]



498 DST Hinge 40x40 Pr01 180° [4-246DST]



500 Hinge 40x40 Pr01 180° [4-250]



501 DST Hinge 40x40 Pr01 180° [4-250DST]



502 Hinge 50x50 Pr01 125° Stainless Steel [7-205]



503 Hinge 50x50 Pr01 180° [4-260]



504 DST Hinge 50x50 Pr01 180° [4-260DST]



505 Hinge 76x50 Pr01 270° [4-262]



506 Hinge 63x50 Pr01 270° [4-264]



507 DST Hinge 63x50 Pr01 180° [4-264DST]



508 Hinge PA, 60 x 40 Pr01 180° [4-400]



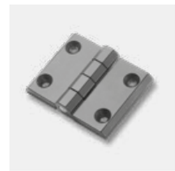
509 Hinge PA, 60 x 60 Pr01 180° [4-401]



510 Hinge 60x60 Pr01 180° [4-270]



511 DST Hinge 60x60 Pr01 180° [4-270DST]



512 Hinge Pr01 270° [4-272]



513 Hinge Pr01 270° [4-275]



514 Hinge Pr01 270° [4-274]



515 DST Hinge Pr01 270° [4-274DST]



516 Hinge adjustable Pr01 270° [4-271]



517 DST Hinge Pr01 180° [4-271DST]



518 Hinge, adjustable Pr01 180° Stainless Steel [7-204]



519 Hinge Pr01 180° Stainless Steel [7-201]



520 Hinge Pr01 270° Stainless Steel [7-203]



521 Hinge Pr01 270° Stainless Steel [7-262]



522 Hinge PA, 74 x 60 Pr01 180° [4-402]



523 Hinge Pr01 180° [4-315]



524 Hinge Pr01 270° [4-278]

Overview



525 Hinge Pr01 270° Stainless Steel [7-260]



526 Hinge Pr01 180° [4-330]



527 DST Hinge Pr01 180° [4-330DST]



528 Hinge Pr01 180° [4-340]



529 DST Hinge Pr01 180° [4-340DST]



530 Hinge Pr01 180° [4-355]



531 DST Hinge Pr01 180° [4-355DST]



532 Hinge Pr01 200° Stainless Steel [7-220]



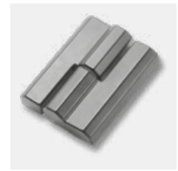
533 Hinge Pr01 180° Stainless Steel [7-225]



534 Hinge Pr01/04 180° [4-345]



535 DST Hinge Pr01/04 180° [4-345DST]



536 Hinge Pr01 160° [4-346]



537 DST Hinge Pr01 160° [4-346DST]



538 Hinge Pr01 180° [4-350]



539 DST Hinge Pr01 180° [4-350DST]



540 Hinge Pr01 180° [4-194]



541 Hinge Pr01 180° Stainless Steel [7-123]



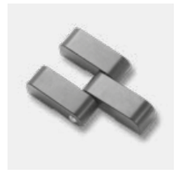
542 Hinge Pr01 180° [4-230]



543 Hinge Pr01 180° Stainless Steel [7-125]



544 Hinge Pr01 180° [4-225]



545 Hinge Pr01 180° [4-240]



546 Concealed Hinge Pr02 90° [4-100]



547 Concealed Hinge Pr02 90° Stainless Steel [7-107]



548 Concealed Hinge Pr02 90° [4-110]



549 Concealed Hinge Pr02 90° Stainless Steel [7-108]



550 Pin Hinge Pr02 110° [4-390]



551 Pin Hinge Pr02 110° Stainless Steel [7-251]



552 Pin Hinge Pr02 120° [4-392]



553 Pin Hinge Pr02 120° Stainless Steel [7-250]



554 Pin Hinge Pr02 120° [4-393]



555 Pin Hinge Pr02 120° [4-394]



556 Concealed Hinge Pr02 120° [4-095]



558 Concealed Hinge Pr03 125° [4-118]



559 Concealed Hinge Pr03 125° Stainless Steel [7-138]



560 Concealed Hinge Pr03 120° [4-119]



561 Concealed Hinge Pr03 120° Stainless Steel [7-139]



562 Concealed Hinge Pr03 120° [4-120]



563 Concealed Hinge Pr03 120° Stainless Steel [7-140]



564 Concealed Hinge Pr03 120° [4-122]



565 Concealed Hinge Pr03 120° Stainless Steel [7-145]



566 Concealed Hinge Pr03 120° [4-124]



567 Concealed Hinge Pr03 120° [4-124.01]



568 Concealed Hinge Pr03 120° [4-125]



569 Concealed Hinge Pr03 120° Stainless Steel [7-165]



570 Concealed Hinge Pr03 120° [4-124.02]



572 Concealed Hinge Pr03 120° Stainless Steel [7-165.01]



574 DST Concealed Hinge Pr03 130° [4-124DST]



576 DST Concealed Hinge Pr03 130° [7-164DST]



578 DST Concealed Hinge Pr03 130° [4-125DST]



580 Concealed Hinge Pr03 120° Stainless Steel [7-166]



581 Concealed Hinge Pr03 120° Stainless Steel [7-167]



582 Concealed Hinge Pr03 120° [4-130]



583 Concealed Hinge Pr03 120° Stainless Steel [7-150]



584 Concealed Hinge Pr03 120° [4-140]



585 Concealed Hinge Pr03 120° Stainless Steel [7-160]



586 Concealed Hinge Pr03 120° [4-135]



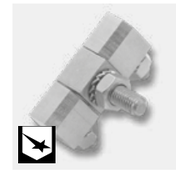
588 Corner Hinge Pr04 180° Stainless Steel [7-110]



589 Corner Hinge Pr04 180° [4-190]



590 Corner Hinge Pr04 180° [4-200]



591 Corner Hinge Pr04 180° Stainless Steel [7-120]



592 Corner Hinge Pr04 180° Tempered Steel [4-220]



593 Corner Hinge Pr04 180° [4-284]



594 Corner Hinge Pr04 180° [4-282]



595 Corner Hinge Pr04 180° [4-280]



596 Corner Hinge Pr04 180° [4-283]



597 DST Corner Hinge Pr04 180° [4-283DST]



598 Corner Hinge Pr04 180° [4-285]



599 Corner Hinge Pr04 180° Stainless Steel [7-211]



600 DST Corner Hinge Pr04 180° [4-285DST]



601 DST Corner Hinge Pr04 180° Stainless steel [7-285DST]



602 Corner Hinge Pr04 180° [4-290]



603 Corner Hinge Pr04 180° Stainless Steel [7-210]

Overview



604 Corner Hinge Pr04 180° [4-286]



605 Corner Hinge Pr04 180° [4-308]



606 Corner Hinge Pr04 180° [4-310]



608 Corner Hinge Pr04 180° Stainless Steel [7-130]



609 Corner Hinge Pr04 180° [4-320]



610 Corner Hinge Pr04 180° [4-323]



611 Corner Hinge Pr04 180° [4-326]



612 Corner Hinge Pr04 180° [4-370]



613 DST Corner Hinge Pr04 180° [4-349DST]



614 Hinge Pr05 180° [4-145]



615 Hinge Pr05 180° Stainless Steel [7-133]



616 Hinge Pr05 180° [4-150]



617 Hinge Pr05 180° Stainless Steel [7-134]



618 Hinge Pr05 180° [4-152]



619 Hinge Pr05 180° Stainless Steel [7-132]



620 DST Hinge Pr05 180° [4-152DST]



621 DST Hinge Pr05 180° Stainless steel [7-152DST]



622 Hinge Pr05 180° [4-161]



623 DST Hinge Pr05 180° [4-150DST]



624 Hinge Pr05 180° [4-160]



625 Hinge Pr05 180° Stainless Steel [7-135]



626 Hinge Pr05 180° [4-170]



627 Hinge Pr05 180° [4-180]



628 Hinge Pr05 180° [4-185]



629 DST Hinge Pr05 180° [4-161DST]



630 Hinge for Single Cabinet Pr05 180° [4-155]



631 Hinge Pr05 180° Stainless Steel [7-136]



632 Hinge Pr05 180° [4-181]



633 Hinge Pr05 180° [4-182]



634 DST Hinge Pr05 180° [4-182.01DST]



635 DST Hinge Pr05 180° [4-182.02DST]



636 DST Hinge Pr05 180° [4-182.03DST]



637 Hinge Pr05 180° [4-182.05]



638 DST Hinge Pr05 180° [4-182.05DST]



639 DST Hinge Pr05 180° [4-182.06DST]



640 DST Hinge Pr05 180° [4-182.07DST]



641 Hinge Pr05 180° [4-183]



642 DST Hinge Pr05 180° [4-184.01DST]



643 DST Hinge Pr05 180° [4-184.05DST]



644 Detent Hinge 60x60 Pr01 180° [4-243]



645 Detent Hinge Pr01 180° Stainless Steel [7-222]



646 Torque Hinge Pr01 270° [4-708]



647 Torque Hinge Pr01 270° [4-709]



648 Torque Hinge Pr01 270° [4-701]



649 Torque Hinge Pr01 270° [4-702]



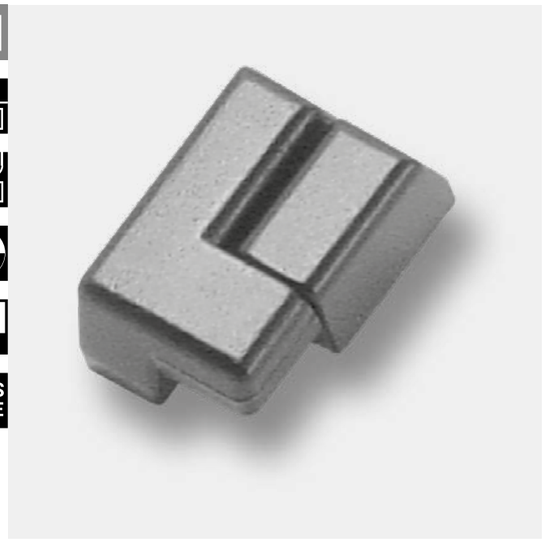
650 Torque Hinge Pr01 270° [4-703]



651 Torque Hinge Pr01 360° [4-707]

Hinge Pr01/04 180°

[4-348]



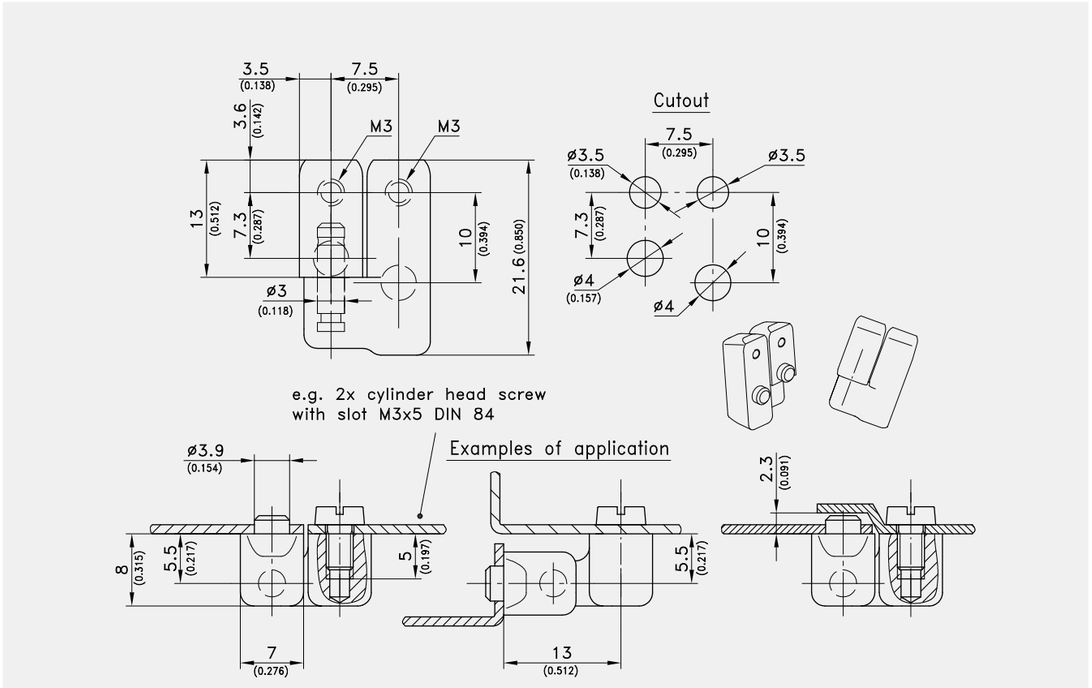
for nested door or surface mounted door

Advantages

- Screw-on Hinge, Mini.
- Lift-off.
- Pin molded into frame-part.
- 180° Opening angle.

Materials

- **Frame-part and door-part:** zinc die, black
- **Pin:** stainless steel



Hinge

Part Number	Version	Material pin	Pin version	Ø Pin d	Installation type
250-9106.00-00000	LH	stainless steel	molded in	3 mm	screw-on
250-9107.00-00000	RH	stainless steel	molded in	3 mm	screw-on

Hinge 28x30 Pr01 180°

[4-249]



Advantages

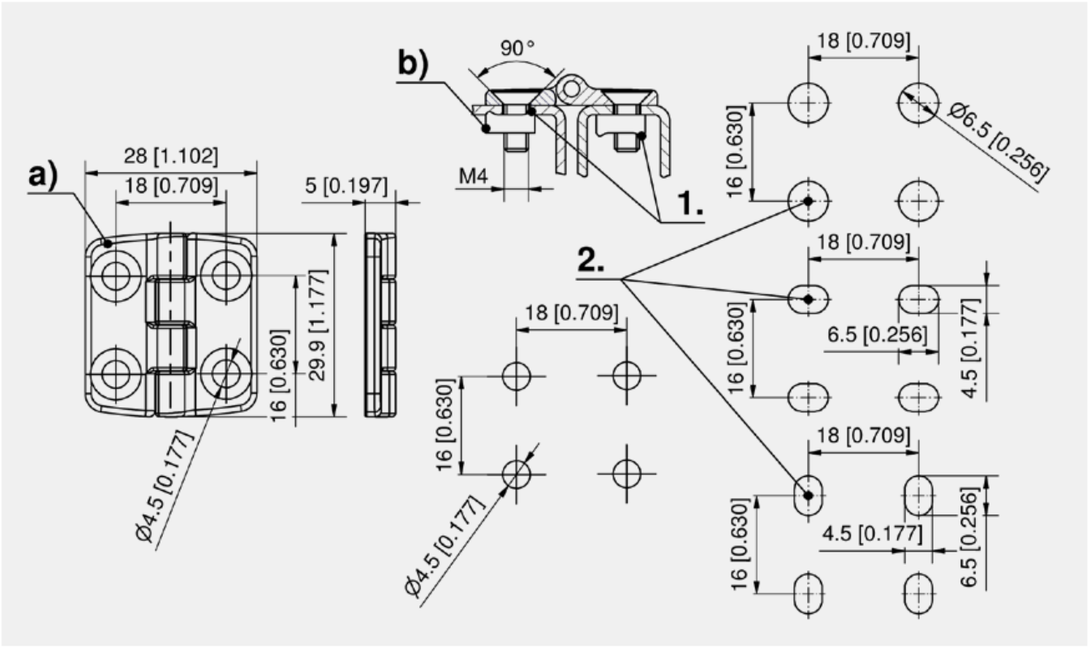
- Small elegant hinge.
- 180° Opening angle.
- Adjustments are possible with respective bores provided.
- The nut plate can be mounted in different ways, according to the application. (Please order separately)
- Further types with DIRAK-SNAP-Technology see Product system 4-249.01DST, 4-249.02DST, 4-249.03DST, 4-249.04DST, 4-249.05DST.

Materials

- **Hinge parts:** zinc die, matt chrome plated or black
- **Pin:** stainless steel
- **Nut plate:** steel, zinc plated

Remarks

1. teeth to friction increase
2. cutout for adjustment



Hinge, zinc die, black

	Part Number	Material pin	Pin version	Installation type
a)	218-9501.00-00000	stainless steel	pressed in	screw-on

Hinge, zinc die, chrome plated

	Part Number	Material pin	Pin version	Installation type
a)	218-9502.00-00000	stainless steel	pressed in	screw-on

Accessories

b) 749 218-0907.15-00000 **Nut Plate**

DST Hinge 22x30 Pr01 180°

[4-249.01DST]



Advantages

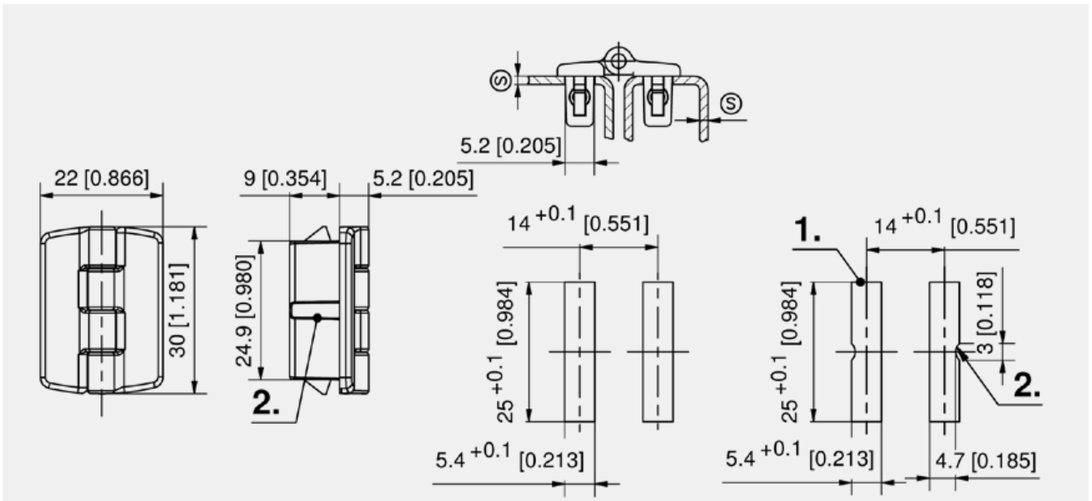
- Small elegant hinge.
- 180° Opening angle.
- Installation by a simple push into the cutout.

Materials

- **Hinge parts:** zinc die, matt chrome plated or black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated

Remarks

1. alternative cutout
2. indentation for correct positional installation



Hinge, zinc die, black

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9301.33-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9301.33-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9301.33-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9301.33-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9301.33-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Hinge, zinc die,chrome plated matt

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9301.40-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9301.40-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9301.40-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9301.40-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9301.40-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Accessories	
756	292-0306.80-02530 **Tool for uninstallation**

DST Hinge 34x30 Pr01 180°

[4-249.02DST]



Advantages

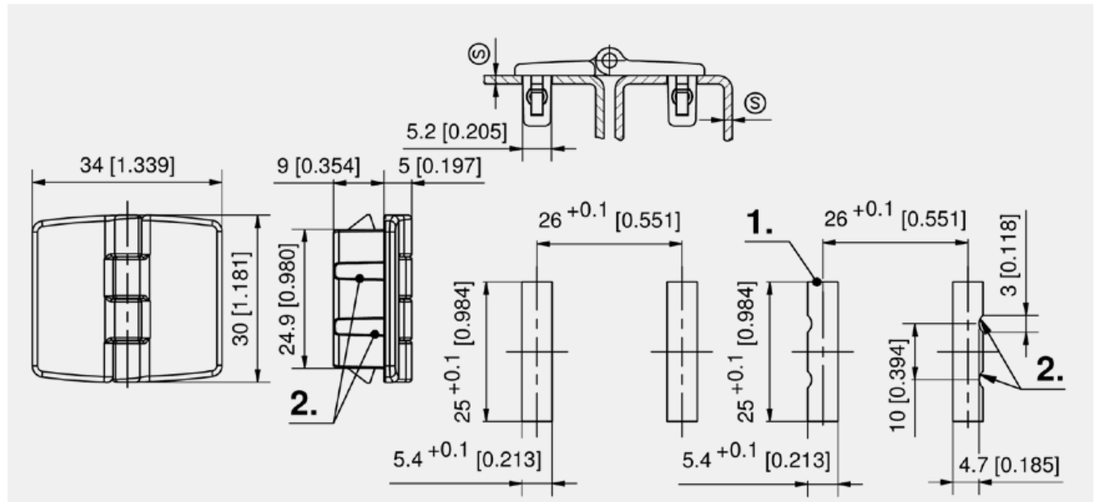
- Small elegant hinge.
- 180° Opening angle.
- Installation by a simple push into the cutout.

Materials

- **Hinge parts:** zinc die, matt chrome plated or black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated

Remarks

1. alternative cutout
2. indentation for correct positional installation



Hinge, zinc die, black

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9302.33-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9302.33-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9302.33-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9302.33-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9302.33-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Hinge, zinc die, chrome plated

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9302.40-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9302.40-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9302.40-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9302.40-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9302.40-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Accessories	
756	292-0306.80-02530 **Tool for uninstallation**

DST Hinge 28x30 Pr01 180°

[4-249.03DST]



Advantages

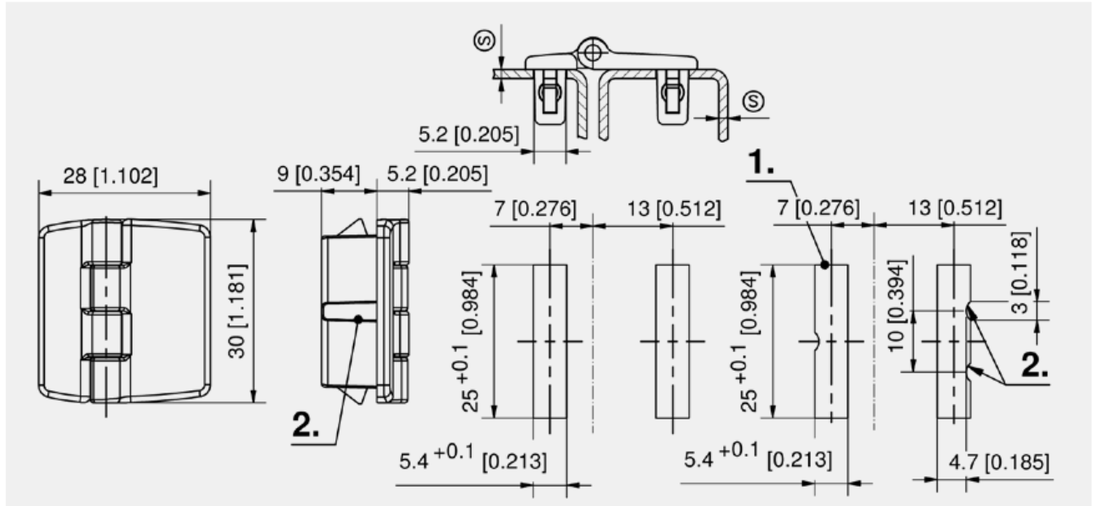
- Small elegant hinge.
- 180° Opening angle.
- Installation by a simple push into the cutout.
- To guarantee a correct positional installation, the cutouts can have indentation.

Materials

- **Hinge parts:** zinc die, matt chrome plated or black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated

Remarks

1. alternative cutout
2. indentation for correct positional installation



Hinge, zinc die, black

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9303.33-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9303.33-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9303.33-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9303.33-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9303.33-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Hinge, zinc die, chrome plated

Part Number	Clamping range	Material pin	Pin version	Installation type
418-9303.40-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less
418-9303.40-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less
418-9303.40-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less
418-9303.40-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
418-9303.40-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less

Accessories

756 292-0306.80-02530 **Tool for uninstallation**

DST Hinge 31x30 Pr01 180°

[4-249.04DST]



Advantages

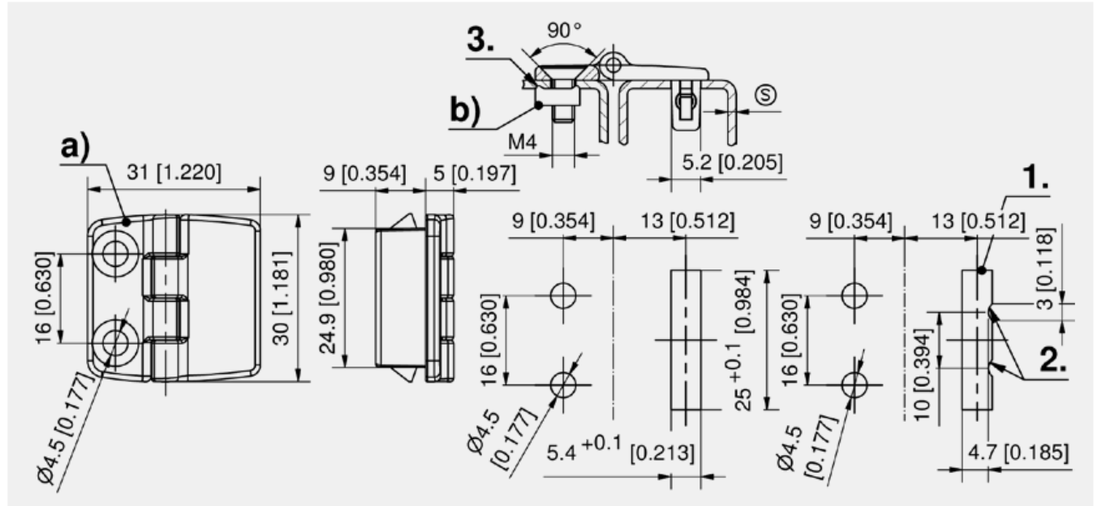
- Small elegant hinge.
- 180° Opening angle.
- To be mounted by simple pushing into appropriate cutouts and by screws.
- With the screw fastened versions countersunk screws according DIN 7991 or according DIN EN ISO 10642 can be used.
- Adjustments are possible with respective bores provided.
- The nut plate can be mounted in different ways, according to the application. (Please order separately)

Materials

- **Hinge parts:** zinc die, matt chrome plated or matt black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated
- **Nut plate:** steel, zinc plated

Remarks

1. alternative cutout
2. indentation for correct
3. teeth to friction increase



Hinge, zinc die, black

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9304.33-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.33-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.33-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.33-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.33-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on

Hinge, zinc die, chrome plated

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9304.40-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.40-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.40-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.40-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9304.40-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on

Accessories

756 292-0306.80-02530 **Tool for uninstallation**

b) 749 218-0907.15-00000 **Nut Plate**

DST Hinge 30x25 Pr01 180°

[4-249.05DST]



Advantages

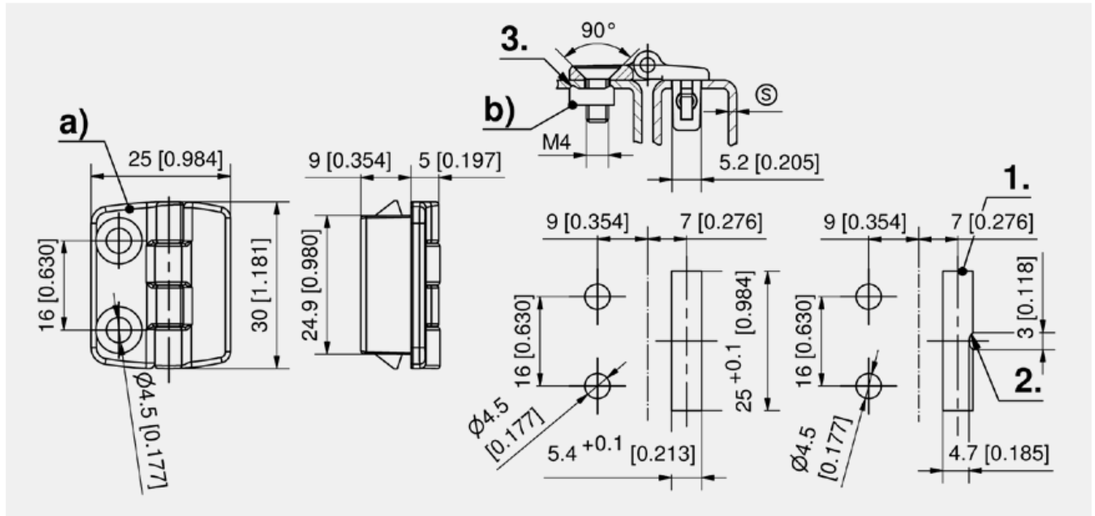
- Small elegant hinge.
- 180° Opening angle.
- To be mounted by simple pushing into appropriate cutouts and by screws.
- With the screw fastened versions countersunk screws according DIN 7991 or according DIN EN ISO 10642 can be used.
- Adjustments are possible with respective bores provided.
- The nut plate can be mounted in different ways, according to the application. (Please order separately)

Materials

- **Hinge parts:** zinc die, matt chrome plated or black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated
- **Nut plate:** steel, zinc plated

Remarks

1. alternative cutout
2. indentation for correct
3. teeth to friction increase



Hinge, zinc die, black

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9305.33-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.33-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.33-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.33-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.33-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on

Hinge, zinc die, chrome plated

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9305.40-00008	0.6 - 0.9 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.40-00010	0.8 - 1.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.40-00014	1.2 - 1.5 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.40-00020	1.8 - 2.1 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9305.40-00024	2.2 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on

Accessories

	756	292-0306.80-02530 **Tool for uninstallation**
b)	749	218-0907.15-00000 **Nut Plate**

Hinge Pr01 180°

[4-247]



Advantages

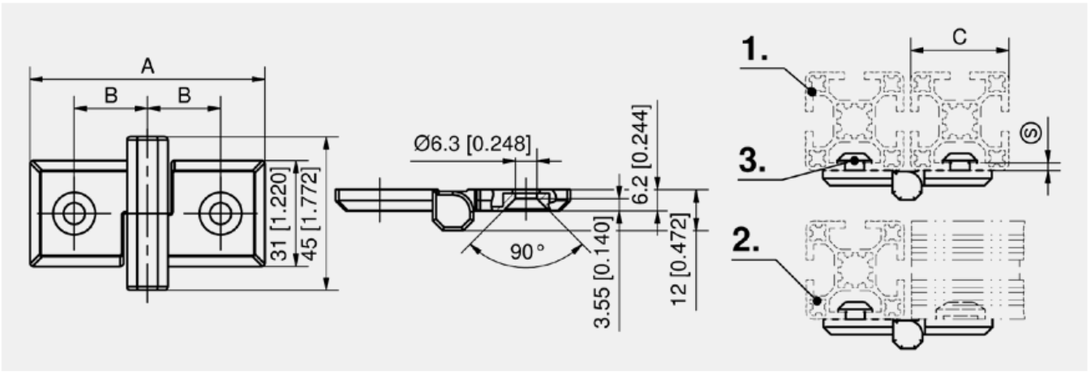
- Screw-on Hinges for aluminium profiles.
- For nested doors.
- Hinge visible.
- RH and LH version.
- 180° Opening angle.
- Lift-off.
- Horizontal and vertial installation with DIRAK tenon blocks or fastening blocks **750** 4-248.
  A rotation of the hinge is not possible.
- Cutout see **750** 4-248.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Tenon blocks and fastening blocks:** zinc die, untreated

Remarks

1. = Installation example for the parallel arrangement of the profiles
2. = Installation example for the rectangular arrangement of the profiles
3. = Tenon blocks see **750** 4-248



Hinge, zinc die, chrome plated

Part Number	Version	for Profile width C	total Length A	Dimension B	Installation type
265-9001.00-00000	RH	30	59 mm	16.5 mm	screw-on
265-9003.00-00000	LH	30	59 mm	16.5 mm	screw-on
265-9101.00-00000	RH	35	64 mm	19 mm	screw-on
265-9103.00-00000	LH	35	64 mm	19 mm	screw-on
265-9201.00-00000	RH	40	69 mm	21.5 mm	screw-on
265-9203.00-00000	LH	40	69 mm	21.5 mm	screw-on
265-9301.00-00000	RH	45	74 mm	24 mm	screw-on
265-9303.00-00000	LH	45	74 mm	24 mm	screw-on
265-9401.00-00000	RH	50	79 mm	26.5 mm	screw-on
265-9403.00-00000	LH	50	79 mm	26.5 mm	screw-on

Hinge, zinc die, black

Part Number	Version	for Profile width C	total Length A	Dimension B	Installation type
265-9002.00-00000	RH	30	59 mm	16.5 mm	screw-on
265-9004.00-00000	LH	30	59 mm	16.5 mm	screw-on
265-9102.00-00000	RH	35	64 mm	19 mm	screw-on
265-9104.00-00000	LH	35	64 mm	19 mm	screw-on
265-9202.00-00000	RH	40	69 mm	21.5 mm	screw-on
265-9204.00-00000	LH	40	69 mm	21.5 mm	screw-on
265-9302.00-00000	RH	45	74 mm	24 mm	screw-on
265-9304.00-00000	LH	45	74 mm	24 mm	screw-on
265-9402.00-00000	RH	50	79 mm	26.5 mm	screw-on
265-9404.00-00000	LH	50	79 mm	26.5 mm	screw-on

Accessories

750	4-248 **Tenon Blocks and Anti-Twist Protection**

Hinge Halves Pr01 180°

[4-247.01]



Advantages

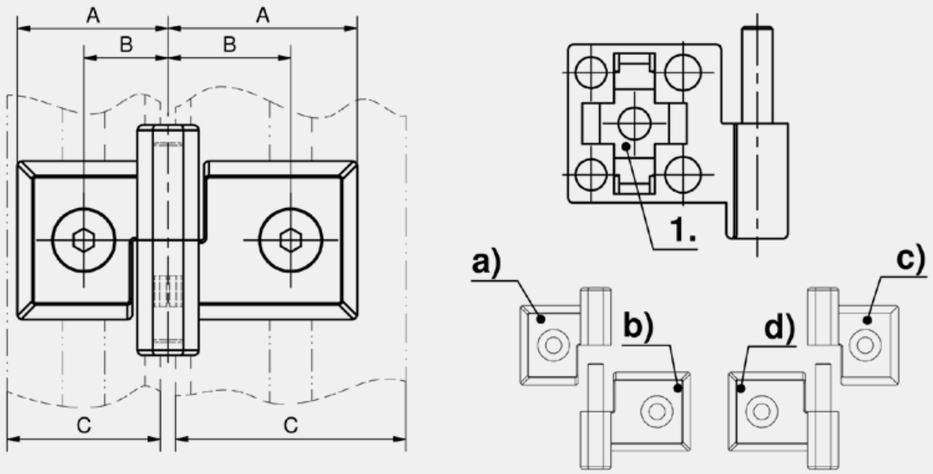
- Hinge halves for aluminium profiles with same or different wide.
- For nested doors.
- Hinge visible.
- RH and LH version.
- 180° Opening angle.
- Lift-off.
- Horizontal and vertial installation with DIRAK tenon blocks or fastening blocks **750** 4-248.
  A rotation of the hinge is not possible.
- Cutout see **750** 4-248.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel

Remarks

1.= recesses at the back of the hinges for the tenon blocks or fastening blocks



Hinge halves, version RH, zinc die, chrome plated

	Part Number	Pin	Dimension A	Dimension B	for Profile width C	Combinable with	Installation type
a)	265-0101.01-00000		29.5 mm	16.5 mm	30	b	screw-on
a)	265-0201.01-00000		32 mm	19 mm	35	b	screw-on
a)	265-0301.01-00000		34.5 mm	21.5 mm	40	b	screw-on
a)	265-0401.01-00000		37 mm	24 mm	45	b	screw-on
a)	265-0501.01-00000		39.5 mm	26.5 mm	50	b	screw-on
b)	265-8703.00-00000	Yes	29.5 mm	16.5 mm	30	a	screw-on
b)	265-8707.00-00000	Yes	32 mm	19 mm	35	a	screw-on
b)	265-8711.00-00000	Yes	34.5 mm	21.5 mm	40	a	screw-on
b)	265-8715.00-00000	Yes	37 mm	24 mm	45	a	screw-on
b)	265-8719.00-00000	Yes	39.5 mm	26.5 mm	50	a	screw-on

Hinge halves, version RH, zinc die, black

	Part Number	Pin	Dimension A	Dimension B	for Profile width C	Combinable with	Installation type
a)	265-0101.02-00000		29.5 mm	16.5 mm	30	b	screw-on
a)	265-0201.02-00000		32 mm	19 mm	35	b	screw-on
a)	265-0301.02-00000		34.5 mm	21.5 mm	40	b	screw-on
a)	265-0401.02-00000		37 mm	24 mm	45	b	screw-on
a)	265-0501.02-00000		39.5 mm	26.5 mm	50	b	screw-on
b)	265-8704.00-00000	Yes	29.5 mm	16.5 mm	30	a	screw-on
b)	265-8708.00-00000	Yes	32 mm	19 mm	35	a	screw-on
b)	265-8712.00-00000	Yes	34.5 mm	21.5 mm	40	a	screw-on
b)	265-8716.00-00000	Yes	37 mm	24 mm	45	a	screw-on
b)	265-8720.00-00000	Yes	39.5 mm	26.5 mm	50	a	screw-on

Hinge halves, version LH, zinc die, chrome plated

	Part Number	Pin	Dimension A	Dimension B	for Profile width C	Combinable with	Installation type
c)	265-0102.01-00000		29.5 mm	16.5 mm	30	d	screw-on
c)	265-0202.01-00000		32 mm	19 mm	35	d	screw-on
c)	265-0302.01-00000		34.5 mm	21.5 mm	40	d	screw-on
c)	265-0402.01-00000		37 mm	24 mm	45	d	screw-on
c)	265-0502.01-00000		39.5 mm	26.5 mm	50	d	screw-on
d)	265-8701.00-00000	Yes	29.5 mm	16.5 mm	30	c	screw-on
d)	265-8705.00-00000	Yes	32 mm	19 mm	35	c	screw-on
d)	265-8709.00-00000	Yes	34.5 mm	21.5 mm	40	c	screw-on
d)	265-8713.00-00000	Yes	37 mm	24 mm	45	c	screw-on
d)	265-8717.00-00000	Yes	39.5 mm	26.5 mm	50	c	screw-on

Hinge halves, version LH, zinc die, black

	Part Number	Pin	Dimension A	Dimension B	for Profile width C	Combinable with	Installation type
c)	265-0102.02-00000		29.5 mm	16.5 mm	30	d	screw-on
c)	265-0202.02-00000		32 mm	19 mm	35	d	screw-on
c)	265-0302.02-00000		34.5 mm	21.5 mm	40	d	screw-on
c)	265-0402.02-00000		37 mm	24 mm	45	d	screw-on
c)	265-0502.02-00000		39.5 mm	26.5 mm	50	d	screw-on
d)	265-8702.00-00000	Yes	29.5 mm	16.5 mm	30	c	screw-on
d)	265-8706.00-00000	Yes	32 mm	19 mm	35	c	screw-on
d)	265-8710.00-00000	Yes	34.5 mm	21.5 mm	40	c	screw-on
d)	265-8714.00-00000	Yes	37 mm	24 mm	45	c	screw-on
d)	265-8718.00-00000	Yes	39.5 mm	26.5 mm	50	c	screw-on

Accessories
750 4-248 **Tenon Blocks and Anti-Twist Protection**



Hinge Pr01 180° Stainless Steel

See page 519

Hinge 40x40 Pr01 180°

[4-246]



Advantages

- Screw-on Hinge 40x40mm with molded in countersunk screws M5.
- Lift-off.
- The O-Rings for IP65 DIN EN 60529 are included.
- RH and LH version.
- 180° Opening angle.

Materials

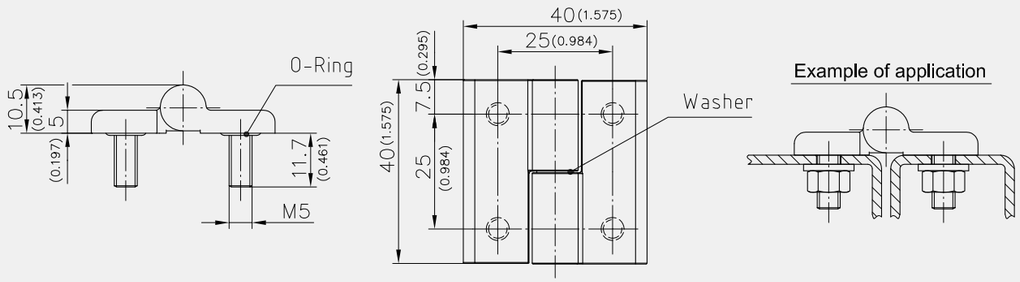
- **Hinge halves:** zinc die, black
- **Pin:** stainless steel
- **O-Ring:** NBR
- **Washer:** stainless steel

R L

180°

IP 65

RoHS WEEE



Hinge

Part Number	Version	Pin version	Material pin	Installation type
218-9010.00-00000	RH	pressed in	stainless steel	screw-on
218-9011.00-00000	LH	pressed in	stainless steel	screw-on

Hinges

DST Hinge 40x40 Pr01 180°

[4-246DST]



Advantages

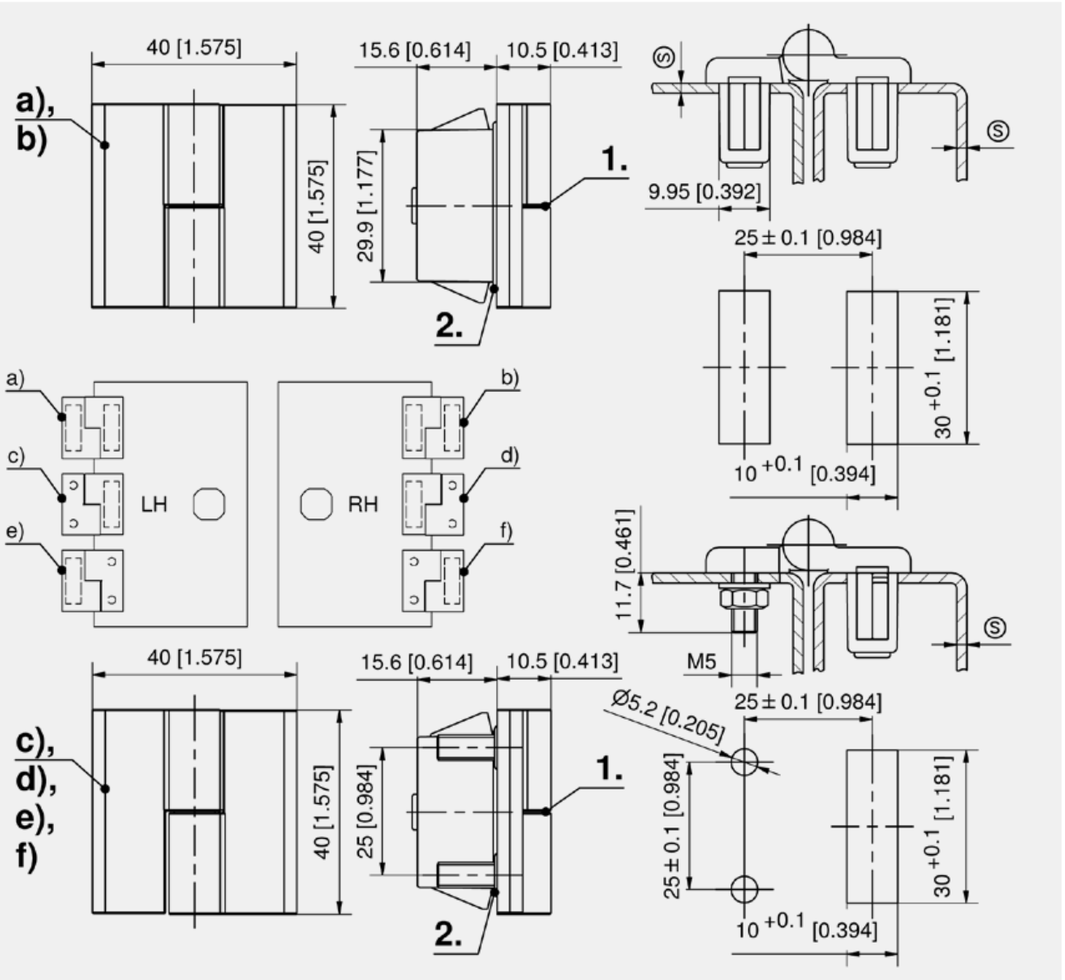
- For nested doors.
- Hinge visible.
- RH and LH version.
- 180° Opening angle.
- Lift-off.
- The O-rings for IP65 DIN EN 60529 are included.
- Tool-less installation / screw-on.

Materials

- **Hinge halves:** zinc die, black
- **Pin:** stainless steel
- **O-rings:** NBR
- **Snap-wedges:** sintered steel, zinc plated
- **Washer:** stainless steel

Remarks

1. washer
2. o-ring



Hinge version LH

	Part Number	Clamping range	Installation type
a)	418-9011.00-00010	0.7 - 1.2 mm	tool-less
a)	418-9011.00-00015	1.2 - 1.7 mm	tool-less
a)	418-9011.00-00020	1.7 - 2.2 mm	tool-less
a)	418-9011.00-00025	2.2 - 2.7 mm	tool-less
a)	418-9011.00-00030	2.7 - 3.2 mm	tool-less

Hinge, version RH

	Part Number	Clamping range	Installation type
b)	418-9008.00-00010	0.7 - 1.2 mm	tool-less
b)	418-9008.00-00015	1.2 - 1.7 mm	tool-less
b)	418-9008.00-00020	1.7 - 2.2 mm	tool-less
b)	418-9008.00-00025	2.2 - 2.7 mm	tool-less
b)	418-9008.00-00030	2.7 - 3.2 mm	tool-less

Hinge, pin pressed into screw-on half, LH

	Part Number	Clamping range	Version	Installation type
c)	418-9009.00-00010	0.7 - 1.2 mm	countersunk screws M5 molded in	tool-less / screw-on
c)	418-9009.00-00015	1.2 - 1.7 mm	countersunk screws M5 molded in	tool-less / screw-on
c)	418-9009.00-00020	1.7 - 2.2 mm	countersunk screws M5 molded in	tool-less / screw-on
c)	418-9009.00-00025	2.2 - 2.7 mm	countersunk screws M5 molded in	tool-less / screw-on
c)	418-9009.00-00030	2.7 - 3.2 mm	countersunk screws M5 molded in	tool-less / screw-on

Hinge, pin pressed into screw-on half, RH

	Part Number	Clamping range	Version	Installation type
d)	418-9006.00-00010	0.7 - 1.2 mm	countersunk screws M5 molded in	tool-less / screw-on
d)	418-9006.00-00015	1.2 - 1.7 mm	countersunk screws M5 molded in	tool-less / screw-on
d)	418-9006.00-00020	1.7 - 2.2 mm	countersunk screws M5 molded in	tool-less / screw-on
d)	418-9006.00-00025	2.2 - 2.7 mm	countersunk screws M5 molded in	tool-less / screw-on
d)	418-9006.00-00030	2.7 - 3.2 mm	countersunk screws M5 molded in	tool-less / screw-on

Hinge, pin pressed into DST-half, LH

	Part Number	Clamping range	Version	Installation type
e)	418-9012.00-00010	0.7 - 1.2 mm	countersunk screws M5 molded in	tool-less / screw-on
e)	418-9012.00-00015	1.2 - 1.7 mm	countersunk screws M5 molded in	tool-less / screw-on
e)	418-9012.00-00020	1.7 - 2.2 mm	countersunk screws M5 molded in	tool-less / screw-on
e)	418-9012.00-00025	2.2 - 2.7 mm	countersunk screws M5 molded in	tool-less / screw-on
e)	418-9012.00-00030	2.7 - 3.2 mm	countersunk screws M5 molded in	tool-less / screw-on

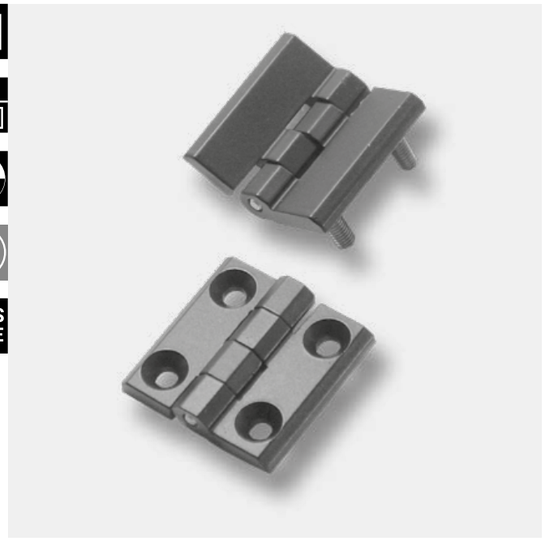
Hinge, pin pressed into DST-half, RH

	Part Number	Clamping range	Version	Installation type
f)	418-9013.00-00010	0.7 - 1.2 mm	countersunk screws M5 molded in	tool-less / screw-on
f)	418-9013.00-00015	1.2 - 1.7 mm	countersunk screws M5 molded in	tool-less / screw-on
f)	418-9013.00-00020	1.7 - 2.2 mm	countersunk screws M5 molded in	tool-less / screw-on
f)	418-9013.00-00025	2.2 - 2.7 mm	countersunk screws M5 molded in	tool-less / screw-on
f)	418-9013.00-00030	2.7 - 3.2 mm	countersunk screws M5 molded in	tool-less / screw-on

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge 40x40 Pr01 180°

[4-250]

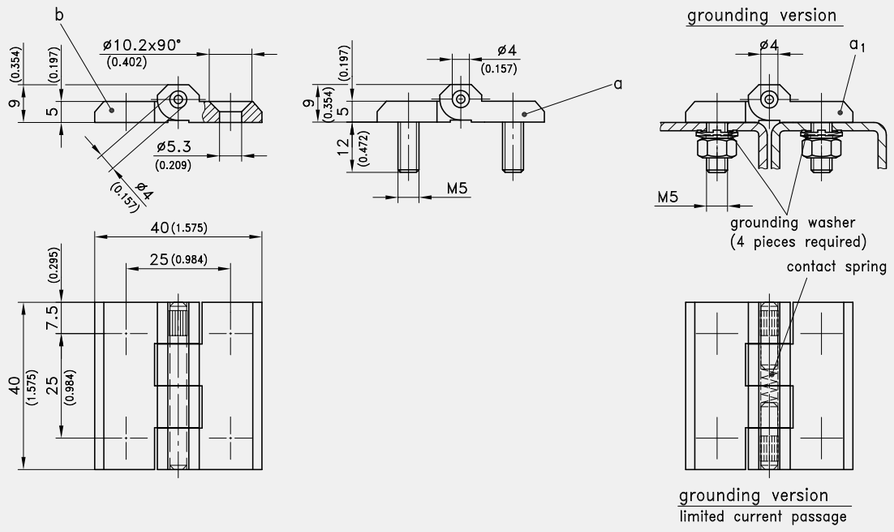


Advantages

- Screw-on Hinge with or without grounding.
- RH or LH application.
- 180° Opening angle.
- Combination of versions a) and b) on request.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Molded in screws:** steel, zinc plated
- **Grounding washer:** steel, zinc plated
- **Spring:** spring steel



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9001.00-00000	with molded in screws M5	stainless steel	pressed in	screw-on
b)	218-9003.00-00000	for countersunk screws M5	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Grounding type	Material pin	Pin version	Installation type
a)	218-9002.00-00000	with molded in screws M5		stainless steel	pressed in	screw-on
a1)	218-9402.00-00000	with molded in screws M5	Grounding washer	steel, zinc plated	pressed in	screw-on
b)	218-9004.00-00000	for countersunk screws M5		stainless steel	pressed in	screw-on

Accessories
861-0176.07-00005 **Grounding washer**

DST Hinge 40x40 Pr01 180°

[4-250DST]

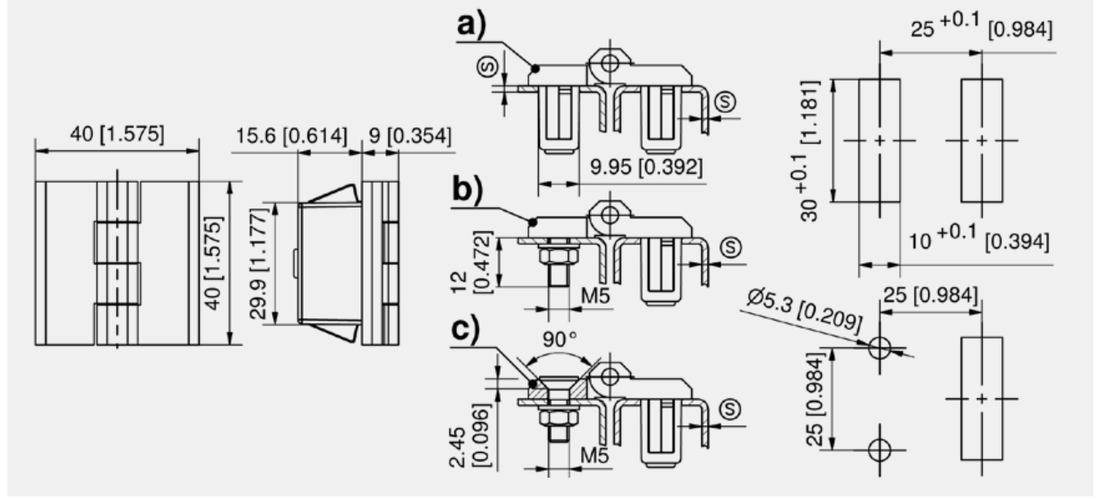


Advantages

- Hinge 40x40mm with DIRAK-SNAP-Technology.
- The installation is effected by a simple push into appropriate cutouts.
- Other data and dimensions see product system 4-250.
- 180° Opening angle.

Materials

- **Hinge halves:** zinc die, black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated



Hinge

	Part Number	Version	Clamping range	Material pin	Installation type
a)	418-9001.00-00015	clip-in	1.2 - 1.7 mm	stainless steel	tool-less
a)	418-9001.00-00020	clip-in	1.7 - 2.2 mm	stainless steel	tool-less
a)	418-9001.00-00025	clip-in	2.2 - 2.7 mm	stainless steel	tool-less
a)	418-9001.00-00030	clip-in	2.7 - 3.2 mm	stainless steel	tool-less
b)	418-9002.00-00015	with molded in screws M5	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
b)	418-9002.00-00020	with molded in screws M5	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
b)	418-9002.00-00025	with molded in screws M5	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
b)	418-9002.00-00030	with molded in screws M5	2.7 - 3.2 mm	stainless steel	tool-less / screw-on
c)	418-9003.00-00015	for countersunk screws M5	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
c)	418-9003.00-00020	for countersunk screws M5	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
c)	418-9003.00-00025	for countersunk screws M5	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
c)	418-9003.00-00030	for countersunk screws M5	2.7 - 3.2 mm	stainless steel	tool-less / screw-on

Accessories
755 292-0702.15-01030 **Reinforcement plate for cutout**
754 292-0401.00-03010 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Hinge 50x50 Pr01 125° Stainless Steel

[7-205]



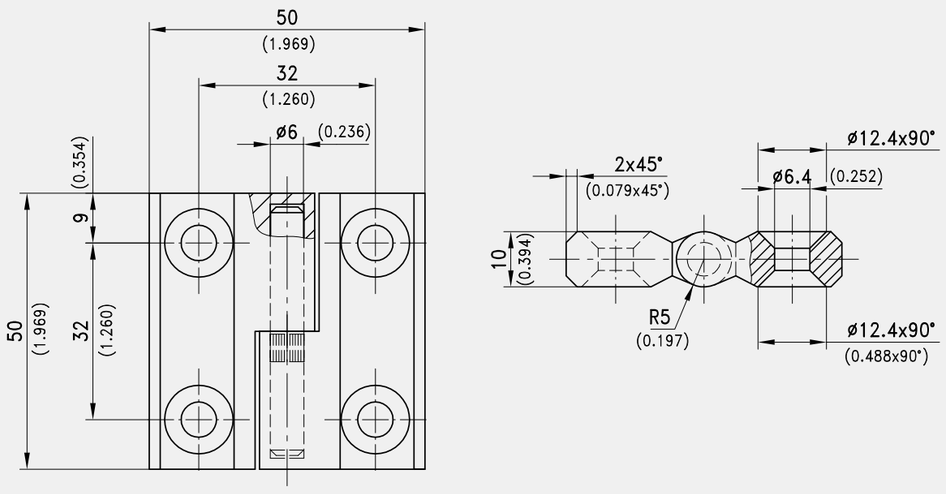
for nested door, stainless steel AISI 316

Advantages

- Lift-off hinge, with 125° opening angle.
- The double symmetrical layout allows RH and LH application.

Materials

- **Hinge parts and pin:** stainless steel AISI 316

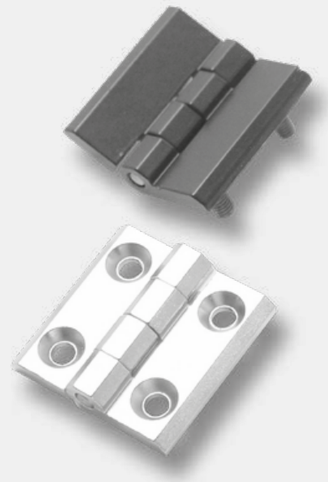


Hinge

Part Number	Width W	Height H	Material pin	Pin version	Installation type
218-9119.00-00000	50 mm	50 mm	stainless steel	pressed in	screw-on

Hinge 50x50 Pr01 180°

[4-260]

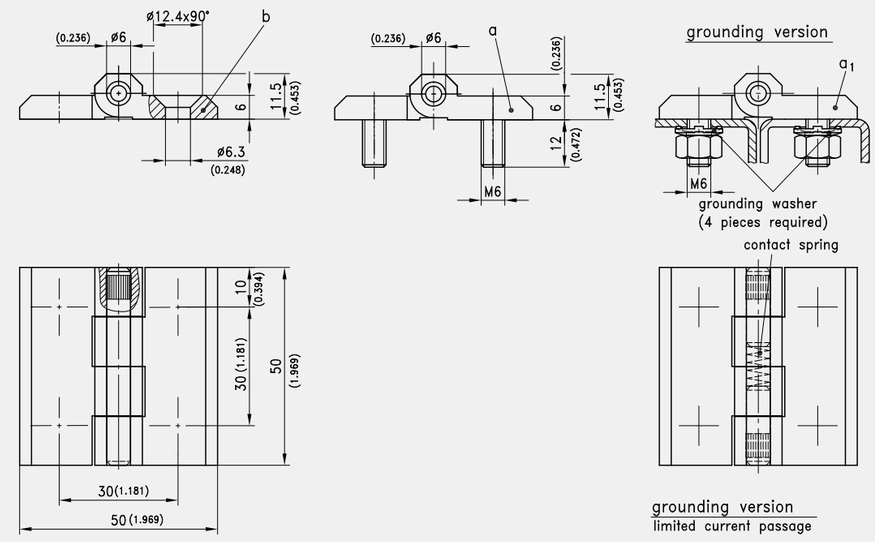


Advantages

- Screw-on Hinge with or without grounding.
- RH or LH application.
- 180° Opening angle.
- Combination of versions a) and b) on request.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Molded in screws:** steel, zinc plated
- **Grounding washer:** steel, zinc plated
- **Spring:** spring steel



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9101.00-00000	with molded in screws M6	stainless steel	pressed in	screw-on
b)	218-9103.00-00000	with countersunk holes M6	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Grounding type	Material pin	Pin version	Installation type
a)	218-9102.00-00000	with molded in screws M6		stainless steel	pressed in	screw-on
a1)	218-9412.00-00000	with molded in screws M6	Grounding washer	steel, zinc plated	pressed in	screw-on
b)	218-9104.00-00000	with countersunk holes M6		stainless steel	pressed in	screw-on

Accessories
800-0411.00-00000 **Grounding washer**

DST Hinge 50x50 Pr01 180°

[4-260DST]

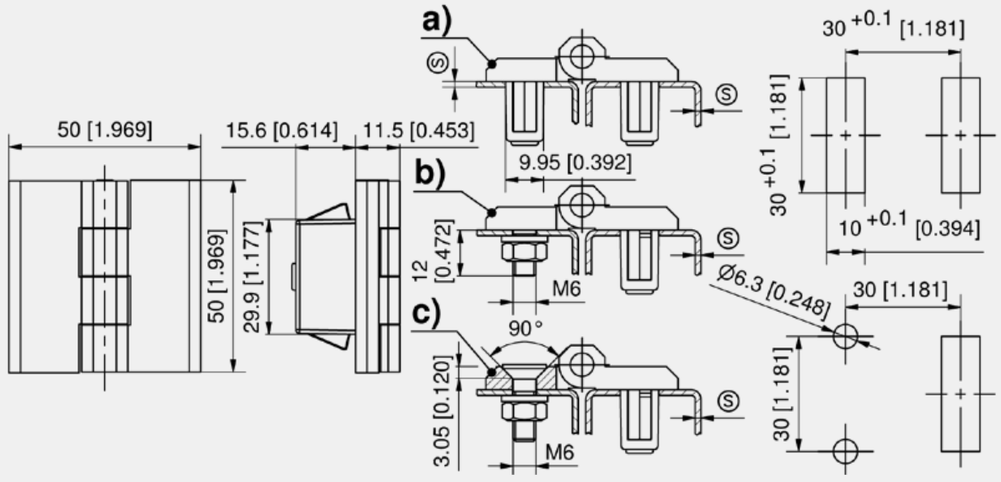


Advantages

- Hinge 50x50mm with DIRAK-SNAP-Technology.
- The installation is effected by a simple push into appropriate cutouts.
- Other data and dimensions see product system 4-260.
- 180° Opening angle.

Materials

- **Hinge halves:** zinc die, black
- **Pin:** stainless steel
- **Pin molded in:** steel, zinc plated
- **Snap wedges:** sintered metal, coated



Hinge

	Part Number	Version	Clamping range	Material pin	Installation type
a)	418-9101.00-00015	clip-in	1.2 - 1.7 mm	stainless steel	tool-less
a)	418-9101.00-00020	clip-in	1.7 - 2.2 mm	stainless steel	tool-less
a)	418-9101.00-00025	clip-in	2.2 - 2.7 mm	stainless steel	tool-less
a)	418-9101.00-00030	clip-in	2.7 - 3.2 mm	stainless steel	tool-less
b)	418-9104.00-00015	with molded in screws M6	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
b)	418-9104.00-00020	with molded in screws M6	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
b)	418-9104.00-00025	with molded in screws M6	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
b)	418-9104.00-00030	with molded in screws M6	2.7 - 3.2 mm	stainless steel	tool-less / screw-on
c)	418-9106.00-00015	with countersunk holes M6	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
c)	418-9106.00-00020	with countersunk holes M6	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
c)	418-9106.00-00025	with countersunk holes M6	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
c)	418-9106.00-00030	with countersunk holes M6	2.7 - 3.2 mm	stainless steel	tool-less / screw-on

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge 76x50 Pr01 270°

[4-262]



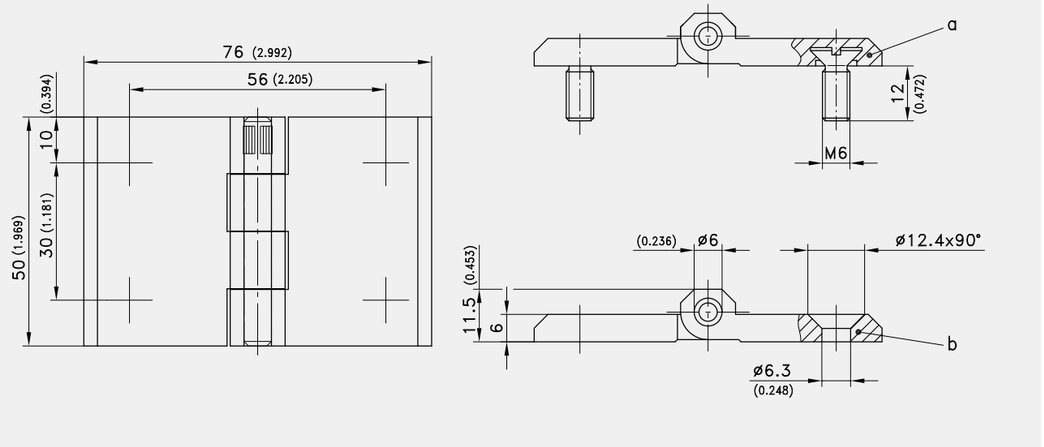
for nested door

Advantages

- Screw-on hinge.
- RH or LH application.
- Version b) allows application around corner.
- Combination of versions a) and b) on request.
- 270° Opening angle.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Molded in screws:** steel, zinc plated



Hinge, zinc die, chrome plated

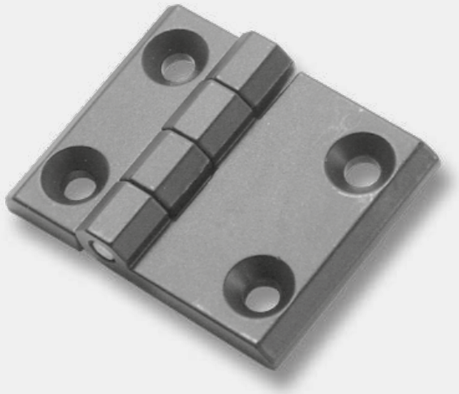
	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9105.00-00000	with molded in screws M6	stainless steel	pressed in	screw-on
b)	218-9107.00-00000	for M6 countersunk screws	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9106.00-00000	with molded in screws M6	stainless steel	pressed in	screw-on
b)	218-9108.00-00000	for M6 countersunk screws	stainless steel	pressed in	screw-on

Hinge 63x50 Pr01 270°

[4-264]



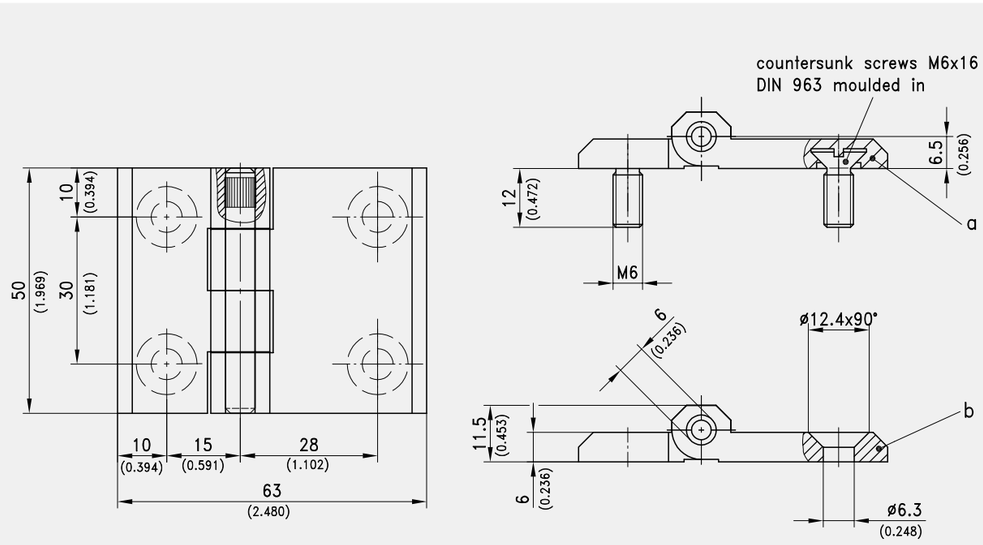
for nested door

Advantages

- Screw-on hinge.
- RH or LH application.
- 270° Opening angle.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Molded in screws:** steel, zinc plated



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
b)	218-9109.00-00000	with countersunk holes for M6	stainless steel	pressed in	screw-on
a)	218-9124.00-00000	molded in screws	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Material pin	Pin version	Installation type
b)	218-9110.00-00000	with countersunk holes for M6	stainless steel	pressed in	screw-on
a)	218-9125.00-00000	molded in screws	stainless steel	pressed in	screw-on

DST Hinge 63x50 Pr01 180°

[4-264DST]



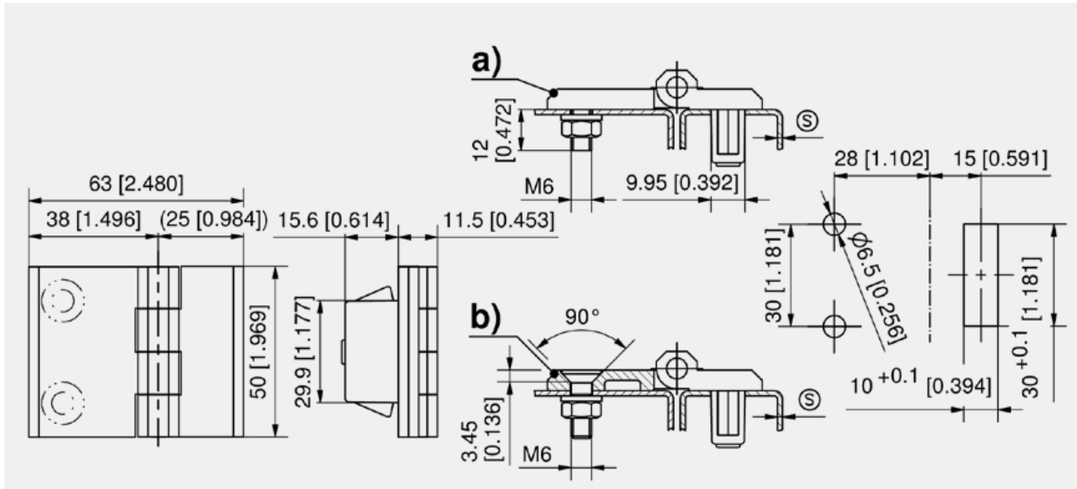
for nested door

Advantages

- Hinge with DIRAK-SNAP-Technology.
- Combination: The short hinge half with DST, the long hinge half with molded in countersunk screws or with countersunk holes.
- Allows for corner applications.
- RH or LH application.
- 180° Opening angle.

Materials

- **Hinge parts:** zinc die, black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated



Hinge with holes for countersunk screws M6

	Part Number	Clamping range	Material pin	Pin version	Installation type
b)	418-9102.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9102.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9102.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9102.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less / screw-on

Hinge with molded in screws M6

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9103.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9103.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9103.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9103.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less / screw-on

Accessories
755 292-0702.15-01030 **Reinforcement plate for cutout**
754 292-0401.00-03010 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Hinge PA, 60 x 40 Pr01 180°

[4-400]



Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- Captive pin protected against loosening and falling out.
- Tight tolerance in knuckles ensures proper alignment.
- 6-part knuckle pin assembly.
- Lightweight.
- Corrosion resistant.
- Rounded edges.

Materials

- **Hinge:** PA6, black **UL 94 V0 halogen free**

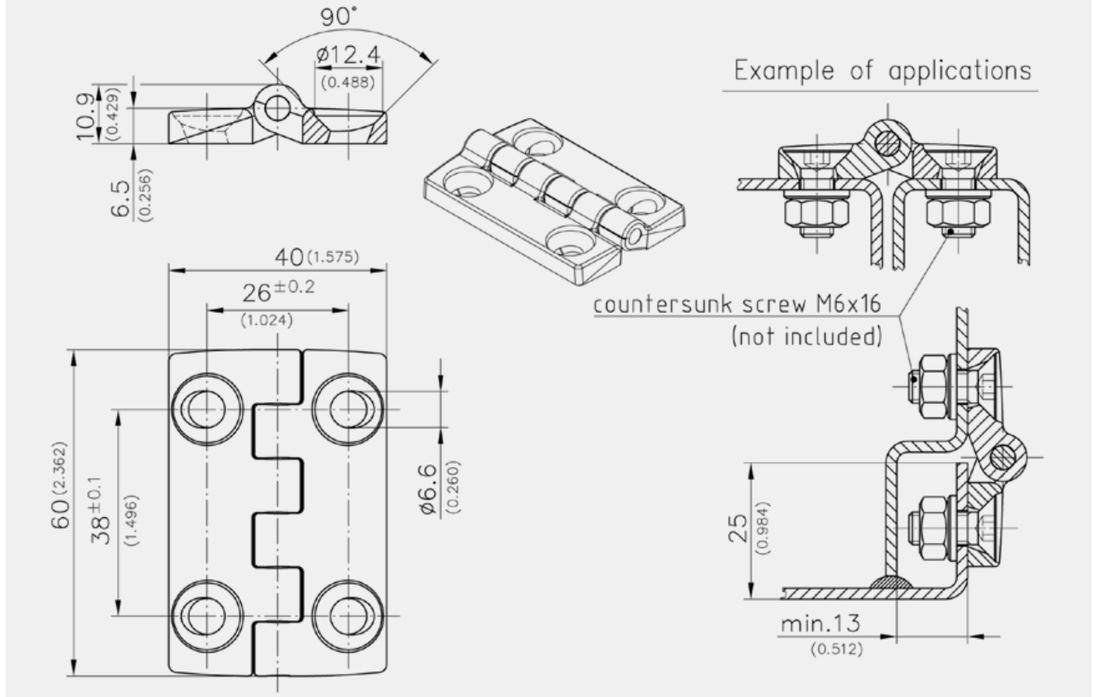
Remarks

Fitting by countersunk screws M6 x 16

according to DIN 7991

or DIN ISO 10642 and DIN 965

or DIN ISO 7046.



Hinge

Part Number	Material pin	Pin version	Installation type
218-9220.00-00000	PA	molded in	screw-on

Hinge PA, 60 x 60 Pr01 180°

[4-401]



Advantages

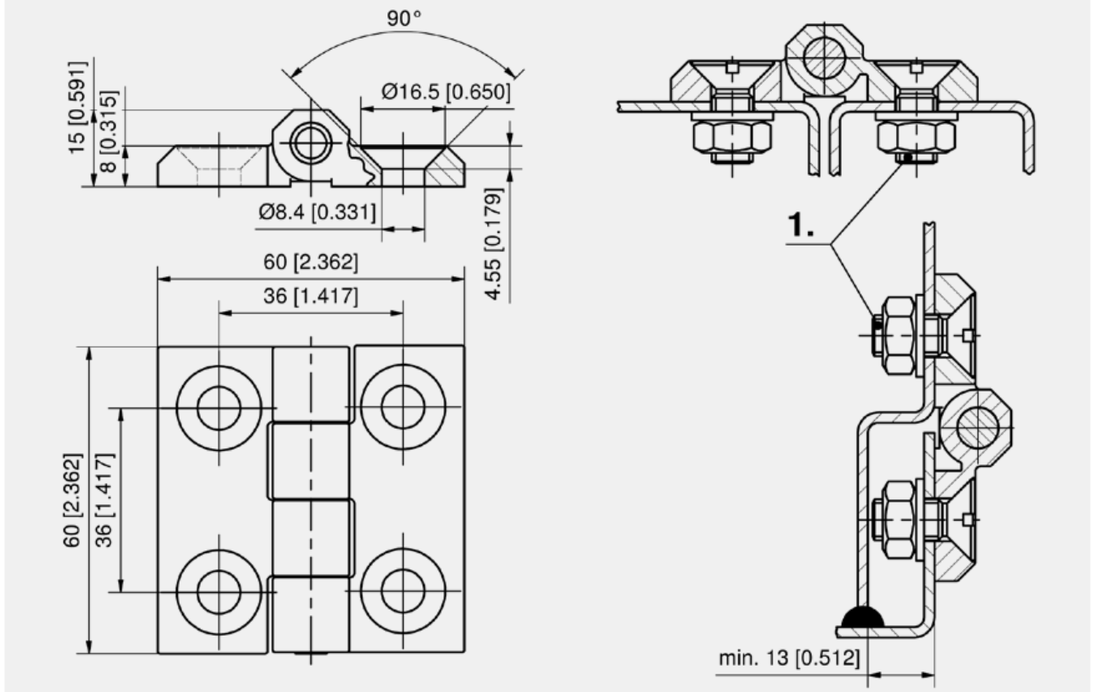
- For nested doors.
- Hinge visible.
- RH / LH application.
- 180°opening angle.
- Low weight.
- Corrosion resistant.

Materials

- **Hinge:** PA, black
- **Pin:** stainless steel

Remarks

1. = Fastening with countersunk screw M8 DIN 7991 or DIN ISO 10642 and DIN 965 or DIN ISO 7046

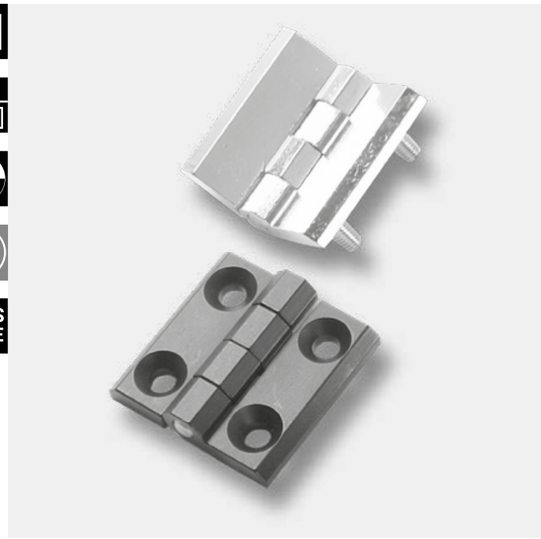


Hinge

Part Number	Material pin	Installation type
218-9241.00-00000	stainless steel	screw-on

Hinge 60x60 Pr01 180°

[4-270]

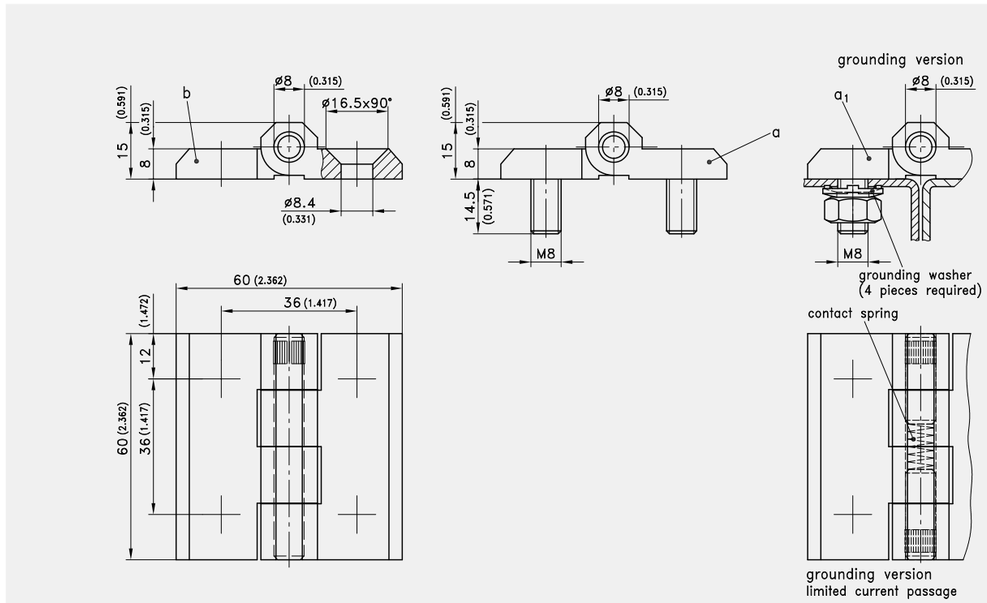


Advantages

- For nested doors
- Screw-on Hinge with or without grounding.
- RH or LH application.
- 180° Opening angle.
- Combination of versions a) and b) on request.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel or steel, zink plated
- **Molded in screws:** steel, zink plated
- **Grounding washer:** steel, zinc plated
- **Spring:** spring steel



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9201.00-00000	Screws M8 molded in	stainless steel	pressed in	screw-on
b)	218-9203.00-00000	for countersunk screws M8	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Grounding type	Material pin	Pin version	Installation type
a)	218-9202.00-00000	Screws M8 molded in		stainless steel	pressed in	screw-on
a1)	218-9422.00-00000	Screws M8 molded in	Grounding washer	steel, zinc plated	pressed in	screw-on
b)	218-9204.00-00000	for countersunk screws M8		stainless steel	pressed in	screw-on

Function extension
861-0146.07-00008 **Grounding washer**

DST Hinge 60x60 Pr01 180°

[4-270DST]

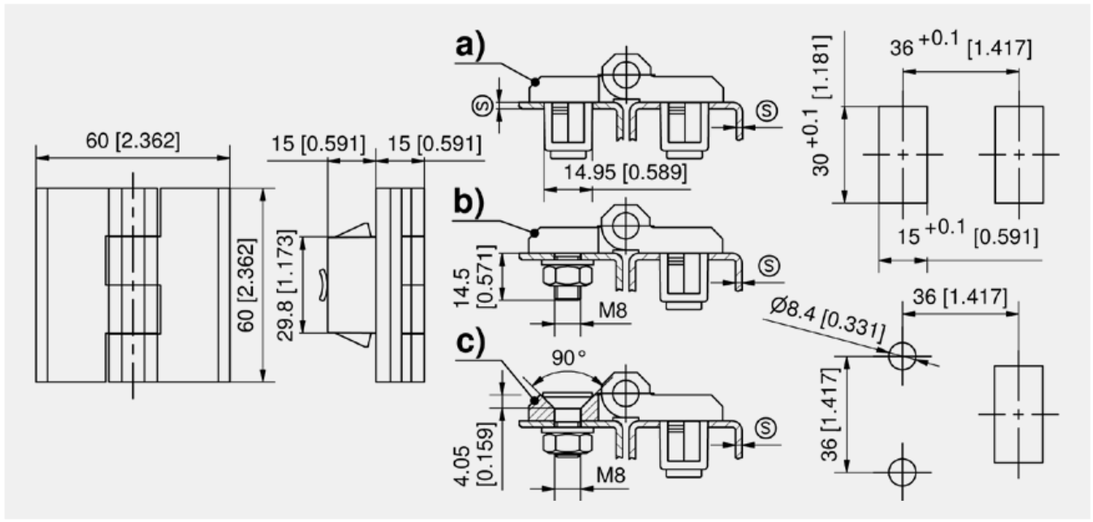


Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- Tool-less installation / screw-on.

Materials

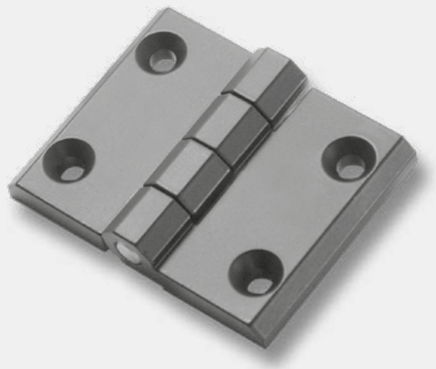
- **Hinge halves:** zinc die, black
- **Pin:** stainless steel
- **Pin molded in:** steel, zinc plated
- **Snap wedges:** sintered metal, coated



Hinge

	Part Number	Version	Clamping range	Material pin	Installation type
a)	418-9202.00-00015	clip-in	1.2 - 1.7 mm	stainless steel	tool-less
a)	418-9202.00-00020	clip-in	1.7 - 2.2 mm	stainless steel	tool-less
a)	418-9202.00-00025	clip-in	2.2 - 2.7 mm	stainless steel	tool-less
a)	418-9202.00-00030	clip-in	2.7 - 3.2 mm	stainless steel	tool-less
a)	418-9202.00-00035	clip-in	3.2 - 3.7 mm	stainless steel	tool-less
b)	418-9203.00-00015	Screws M8 molded in	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
b)	418-9203.00-00020	Screws M8 molded in	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
b)	418-9203.00-00025	Screws M8 molded in	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
b)	418-9203.00-00030	Screws M8 molded in	2.7 - 3.2 mm	stainless steel	tool-less / screw-on
b)	418-9203.00-00035	Screws M8 molded in	3.2 - 3.7 mm	stainless steel	tool-less / screw-on
c)	418-9208.00-00015	with countersunk holes for M8	1.2 - 1.7 mm	stainless steel	tool-less / screw-on
c)	418-9208.00-00020	with countersunk holes for M8	1.7 - 2.2 mm	stainless steel	tool-less / screw-on
c)	418-9208.00-00025	with countersunk holes for M8	2.2 - 2.7 mm	stainless steel	tool-less / screw-on
c)	418-9208.00-00030	with countersunk holes for M8	2.7 - 3.2 mm	stainless steel	tool-less / screw-on
c)	418-9208.00-00035	with countersunk holes for M8	3.2 - 3.7 mm	stainless steel	tool-less / screw-on

Accessories
755 292-0701.15-01530 **Reinforcement plate for cutout**
756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**



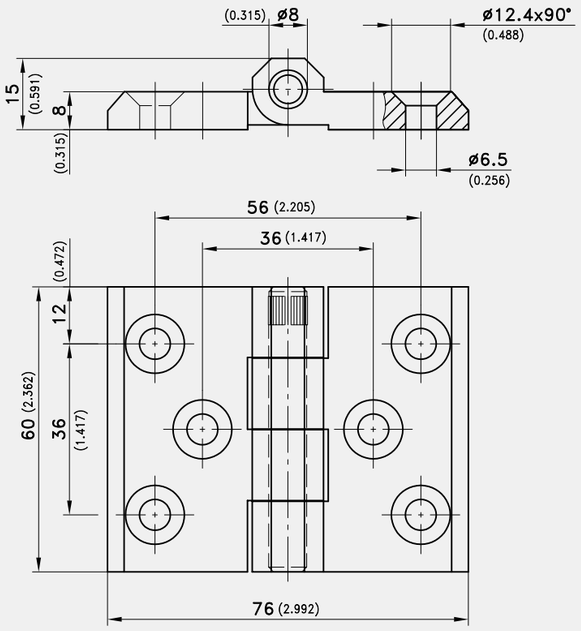
for nested door

Advantages

- Screw-on hinge.
- RH or LH application.
- 270° Opening angle.
- Allowing application around corner.
- Combination of versions on request.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9205.00-00000	for countersunk screws M6 with 4 holes	stainless steel	pressed in	screw-on
b)	218-9207.00-00000	for countersunk screws M6 with 6 holes	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9206.00-00000	for countersunk screws M6 with 4 holes	stainless steel	pressed in	screw-on
b)	218-9208.00-00000	for countersunk screws M6 with 6 holes	stainless steel	pressed in	screw-on



Advantages

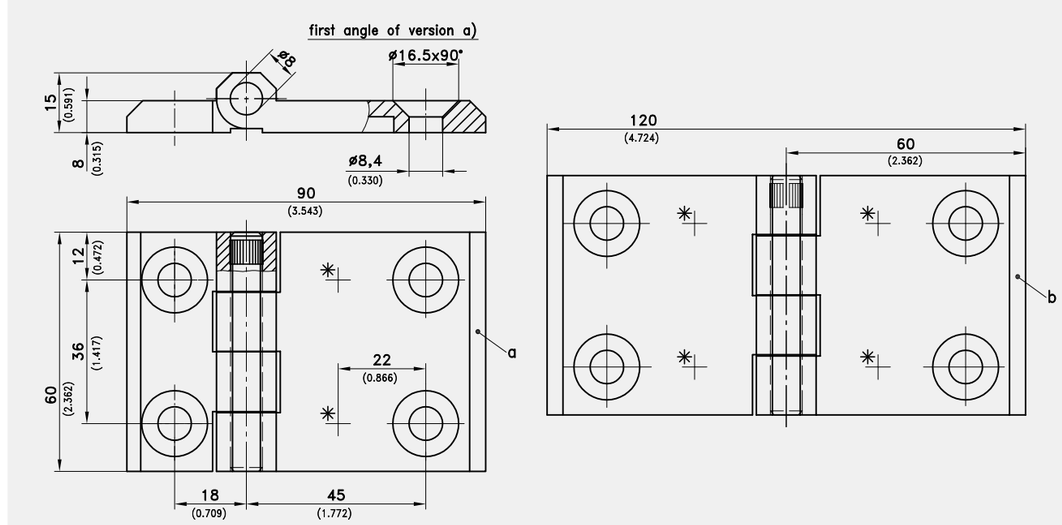
- Screw-on hinge for M8 countersunk screws.
- For nested doors.
- RH or LH application.
- 270° Opening angle.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Pin:** stainless steel

Remarks

- * The back of the hinge at the marked locations has prepared holes which can easily be drilled to create additional installation holes.



Hinge, zinc die, chrome plated

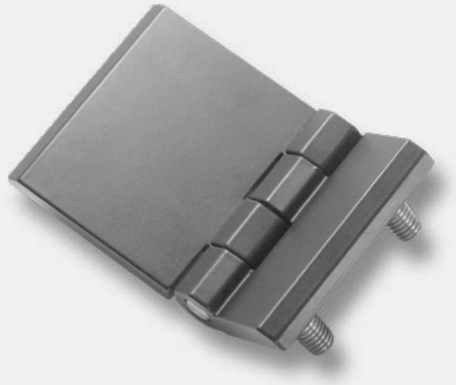
	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9216.00-00000	different Hinge half lengths	stainless steel	pressed in	screw-on
b)	218-9217.00-00000	identical Hinge half lengths	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9218.00-00000	different Hinge half lengths	stainless steel	pressed in	screw-on
b)	218-9219.00-00000	identical Hinge half lengths	stainless steel	pressed in	screw-on

Hinge Pr01 270°

[4-274]

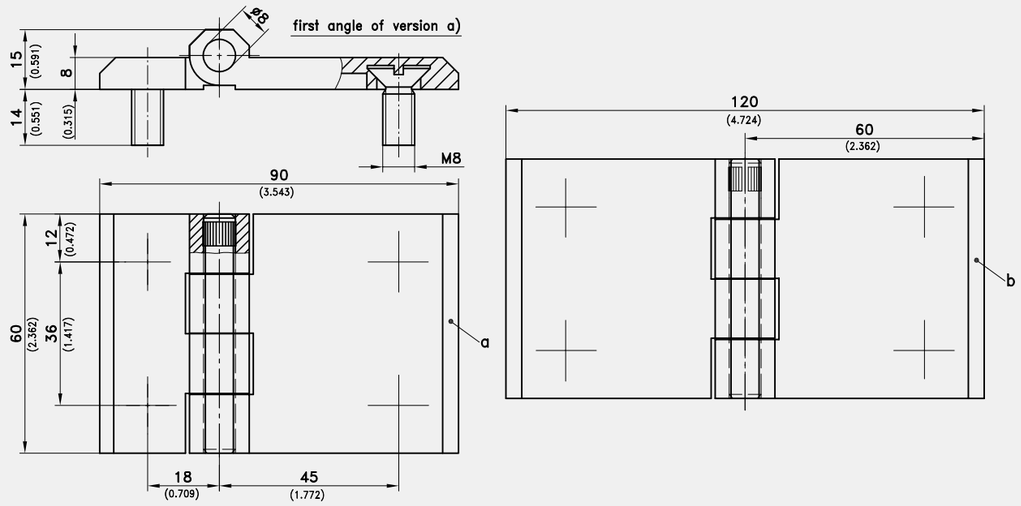


Advantages

- Screw-on hinge with M8 molded in screws.
- For nested doors.
- RH or LH application.
- 270° Opening angle.
- The short hinge half length is also available with counter-sunk holes, please see product system 4-270 and 4-272.

Materials

- **Hinge halves:** zinc die, chrome plated or black
- **Molded in screws:** steel, zink plated
- **Pin:** stainless steel



Hinge, zinc die, chrome plated

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9209.00-00000	different Hinge half lengths	stainless steel	pressed in	screw-on
b)	218-9211.00-00000	identical Hinge half lengths	stainless steel	pressed in	screw-on

Hinge, zinc die, black

	Part Number	Version	Material pin	Pin version	Installation type
a)	218-9210.00-00000	different Hinge half lengths	stainless steel	pressed in	screw-on
b)	218-9212.00-00000	identical Hinge half lengths	stainless steel	pressed in	screw-on

DST Hinge Pr01 270°

[4-274DST]

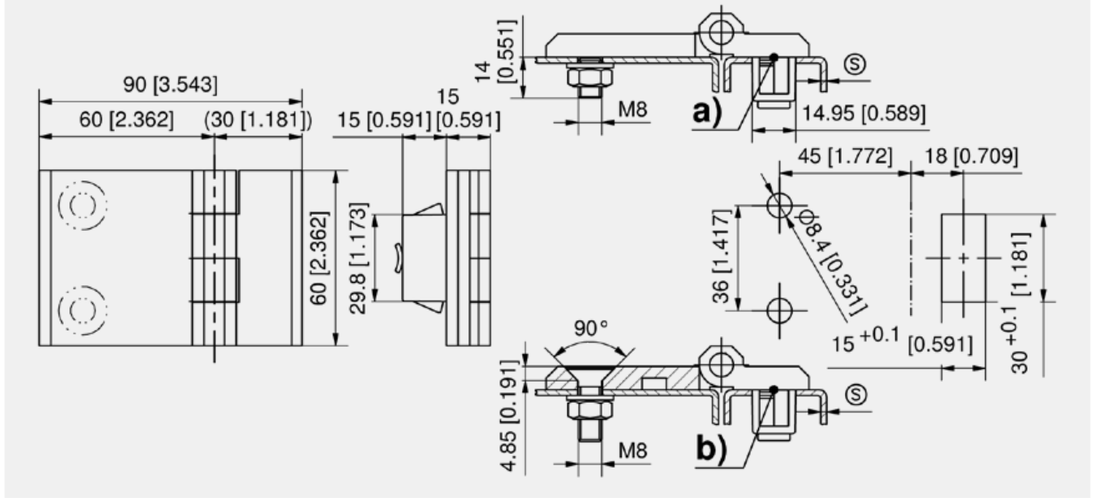


Advantages

- Heavy duty 270° hinge.
- For nested doors.
- The short hinge half length is with DIRAK-SNAP-Technology, the long hinge half is with molded in countersunk screws.
- RH or LH application.
- 270° Opening angle.

Materials

- **Hinge parts:** zinc die, black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel, zinc plated



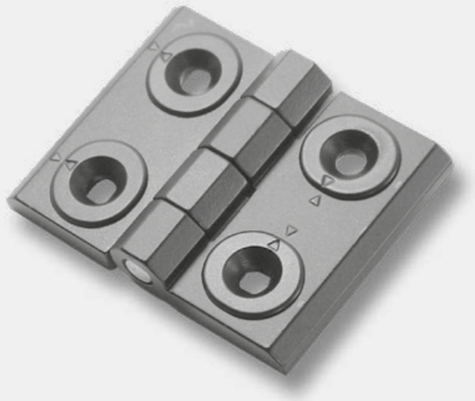
Hinge

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	418-9205.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9205.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9205.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9205.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less / screw-on
a)	418-9205.00-00035	3.2 - 3.7 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9204.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9204.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9204.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9204.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less / screw-on
b)	418-9204.00-00035	3.2 - 3.7 mm	stainless steel	pressed in	tool-less / screw-on

	Accessories
755	292-0701.15-01530 **Reinforcement plate for cutout**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge adjustable Pr01 270°

[4-271]



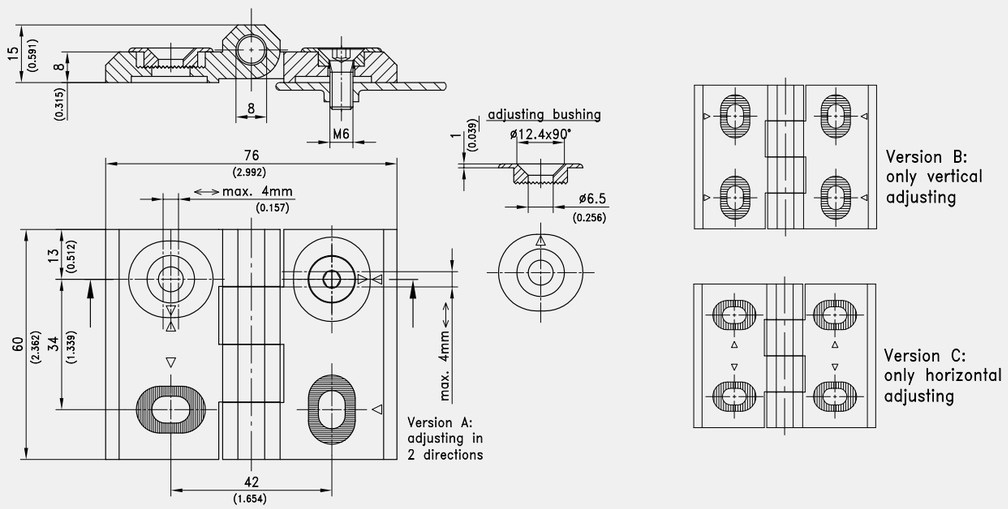
for nested door

Advantages

- 2D Hinge, screw-on, for RH or LH application.
- 270° Opening angle.
- The teeth on the adjusting bushings and in the oblong holes of the hinge halves prevent slipping of the hinge.
- In contrast with conventional oblong holes, the countersunk heads of the screws have full contact with the adjusting bushings.
- These bushings completely cover the oblong holes, preventing deposit of dust within the adjusting area.
- Matching arrow tips mark the 0-position.

Materials

- **Hinge halves and bushings:** zinc die, chrome plated or black
- **Pin:** stainless steel



Hinge, zinc die, chrome plated

Part Number	Version	Adjustment direction	Pin version	Material pin	Installation type
218-9605.00-00000	A	Width/ Height	pressed in	stainless steel	screw-on
218-9603.00-00000	B	Height	pressed in	stainless steel	screw-on
218-9601.00-00000	C	Width	pressed in	stainless steel	screw-on

Hinge, zinc die, black

Part Number	Version	Adjustment direction	Pin version	Material pin	Installation type
218-9606.00-00000	A	Width/ Height	pressed in	stainless steel	screw-on
218-9604.00-00000	B	Height	pressed in	stainless steel	screw-on
218-9602.00-00000	C	Width	pressed in	stainless steel	screw-on

DST Hinge Pr01 180°

[4-271DST]



Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- One hinge half with DIRAK-SNAP-Technology, the second hinge half can be adjusted (horizontal / vertical).
- The teeth on the adjusting bushings and in the oblong holes of the second hinge half prevent slipping of the hinge.
- In contrast with conventional oblong holes, the countersunk heads of the screws have full contact with the adjusting bushings.
- These bushings completely cover the oblong holes, preventing deposit of dust within the adjusting area.

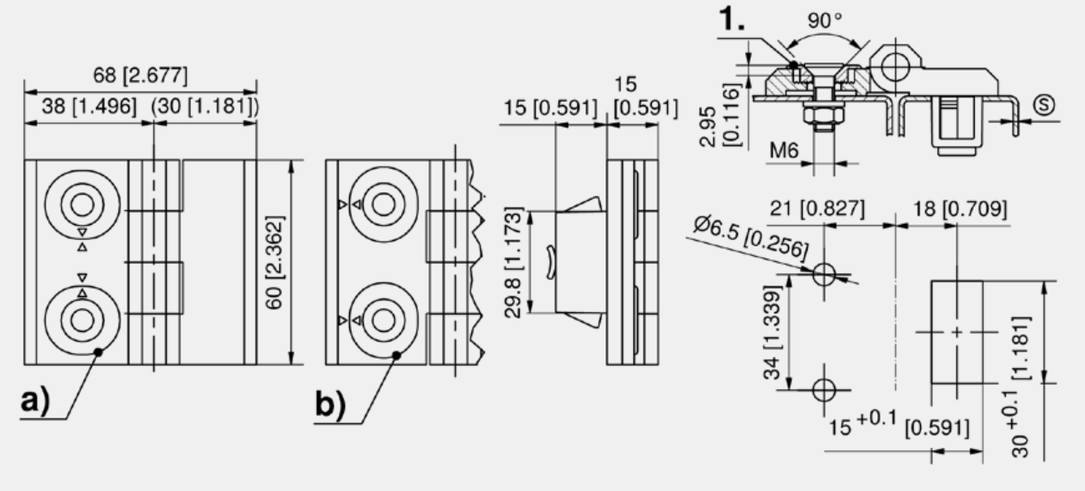
Materials

- **Hinge halves and Adjusting bushings:** zinc die, black
- **Pin:** stainless steel
- **Snap wedges:** sintered steel

Remarks

1. adjusting bushings

Matching arrow tips mark the 0-position.



Hinge

	Part Number	Clamping range	Adjustment direction	Material pin	Pin version	Installation type
a)	418-9206.00-00020	1.7 - 2.2 mm	Width	stainless steel	pressed in	tool-less / screw-on
a)	418-9206.00-00025	2.2 - 2.7 mm	Width	stainless steel	pressed in	tool-less / screw-on
a)	418-9206.00-00030	2.7 - 3.2 mm	Width	stainless steel	pressed in	tool-less / screw-on
a)	418-9206.00-00035	3.2 - 3.7 mm	Width	stainless steel	pressed in	tool-less / screw-on
b)	418-9207.00-00020	1.7 - 2.2 mm	Height	stainless steel	pressed in	tool-less / screw-on
b)	418-9207.00-00025	2.2 - 2.7 mm	Height	stainless steel	pressed in	tool-less / screw-on
b)	418-9207.00-00030	2.7 - 3.2 mm	Height	stainless steel	pressed in	tool-less / screw-on
b)	418-9207.00-00035	3.2 - 3.7 mm	Height	stainless steel	pressed in	tool-less / screw-on

Accessories	
755	292-0701.15-01530 **Reinforcement plate for cutout**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge, adjustable Pr01 180° Stainless Steel [7-204]

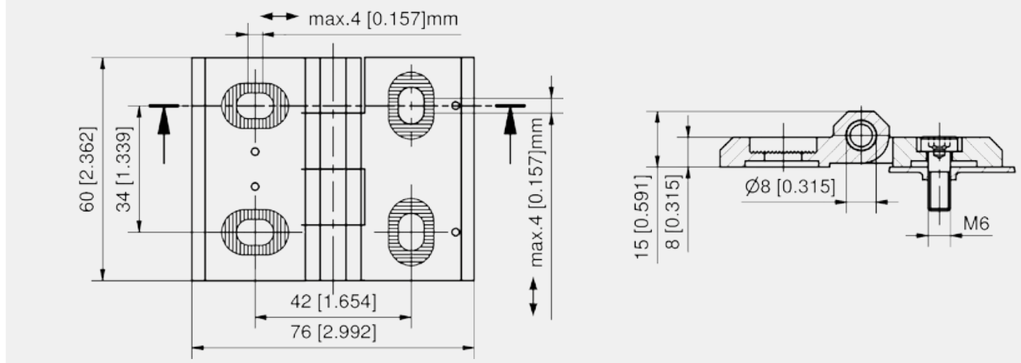


Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- For cylinder screws M6 DIN 6912.

Materials

- **Hinge and pin:** stainless steel AISI 316



Hinge, adjustable

Part Number	Dimension	Adjustment direction
218-9613.00-00001	60x76x15	horizontal / vertical

Hinge Pr01 180° Stainless Steel [7-201]

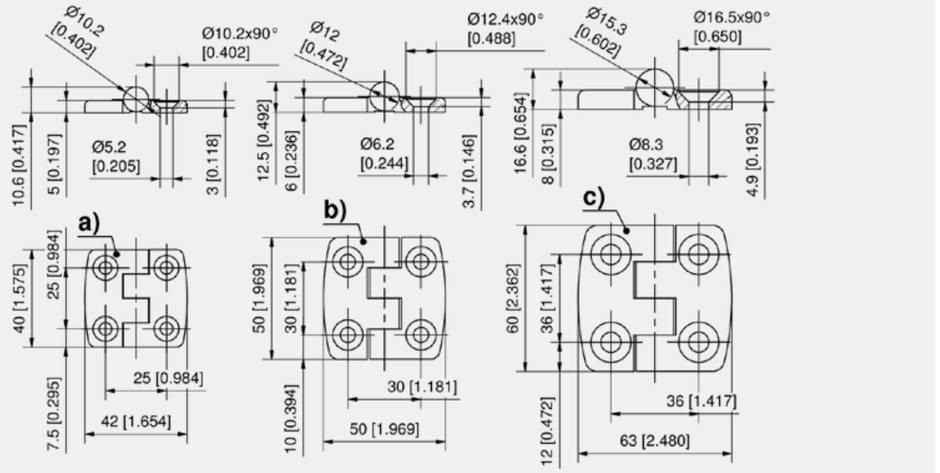


Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- For countersunk screws M5, M6 or M8 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

Materials

- **Hinge-parts an pin:** stainless steel AISI 316

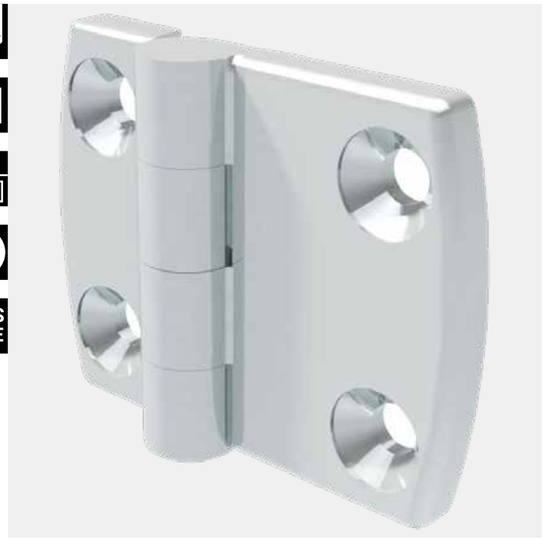


Hinge

	Part Number	Dimension	Material pin	Pin version	Installation type
a)	218-9309.00-00000	40x42x10,6	stainless steel	welded	screw-on
b)	218-9310.00-00000	50x50x12,5	stainless steel	welded	screw-on
c)	218-9311.00-00000	60x63x16,6	stainless steel	welded	screw-on

Hinge Pr01 270° Stainless Steel

[7-203]

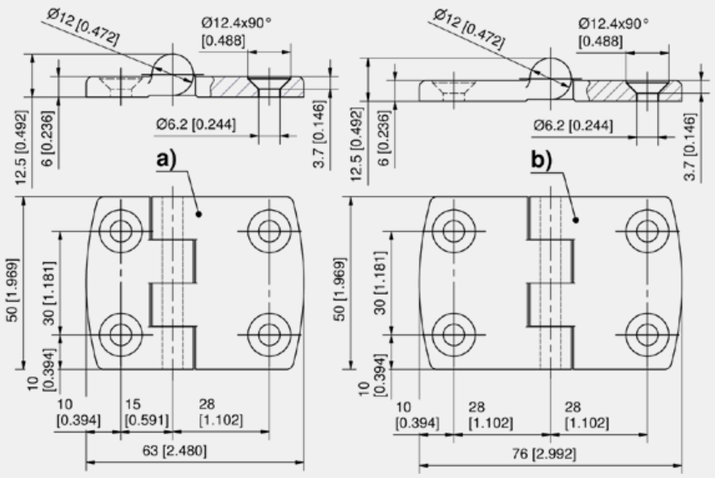


Advantages

- For nested doors.
- Hinge visible.
- RH / LH application.
- 270° Opening angle.
- For countersunk screws M6 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

Materials

- **Hinge-parts an pin:** stainless steel AISI 316



Hinge

	Part Number	Dimension	Material pin	Pin version	Installation type
a)	218-9312.00-00000	50x63x12,5	stainless steel	welded	screw-on
b)	218-9313.00-00000	50x76x12,5	stainless steel	welded	screw-on

Hinge Pr01 270° Stainless Steel

[7-262]



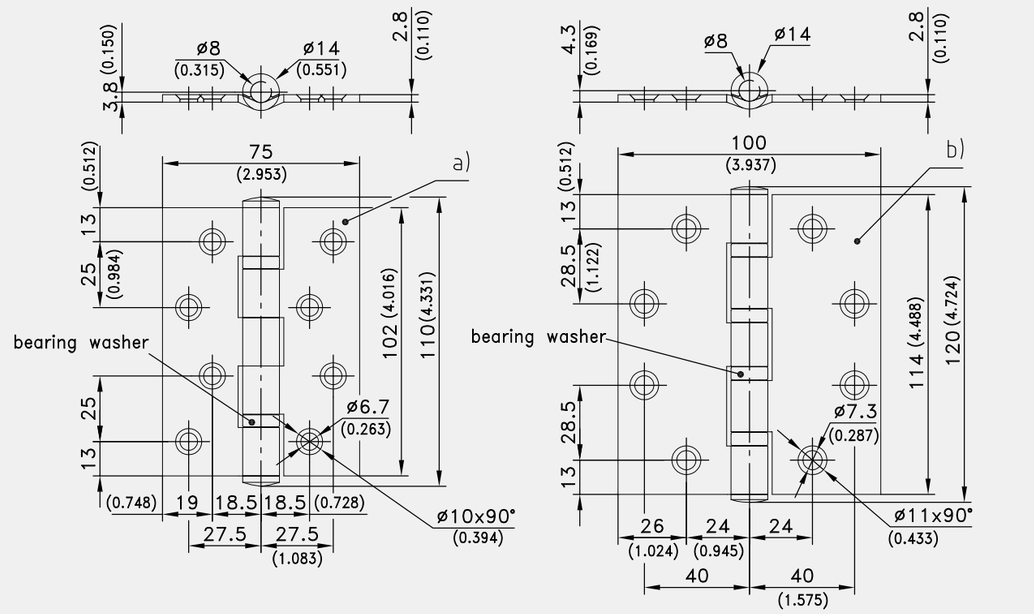
for nested door, stainless steel

Advantages

- Screw-on hinge.
- RH or LH application.
- 270° Opening angle.

Materials

- **Hinge complete:** AISI 304, satin polished



Hinge

	Part Number	Width W	Height H	Material pin	Pin version	Installation type
a)	267-9106.00-00000	75 mm	102 mm	stainless steel	pressed in	screw-on
b)	267-9107.00-00000	100 mm	114 mm	stainless steel	pressed in	screw-on

Hinge PA, 74 x 60 Pr01 180°

[4-402]



Advantages

- For nested doors.
- Hinge visible.
- RH and LH version.
- 180°opening angle.
- Low weight.
- Corrosion resistant.
- Lift-off.

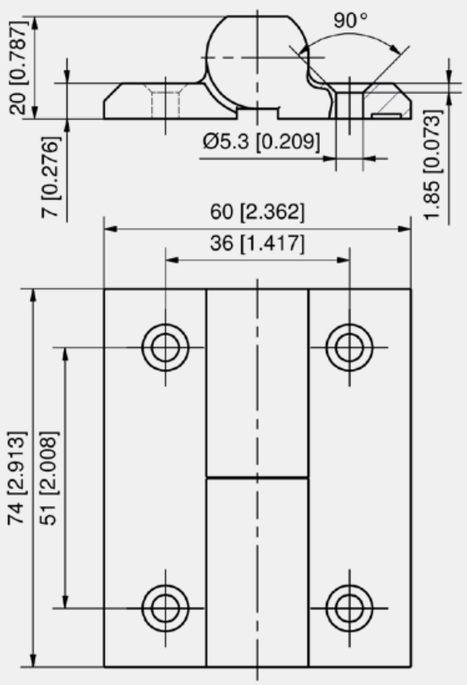
Materials

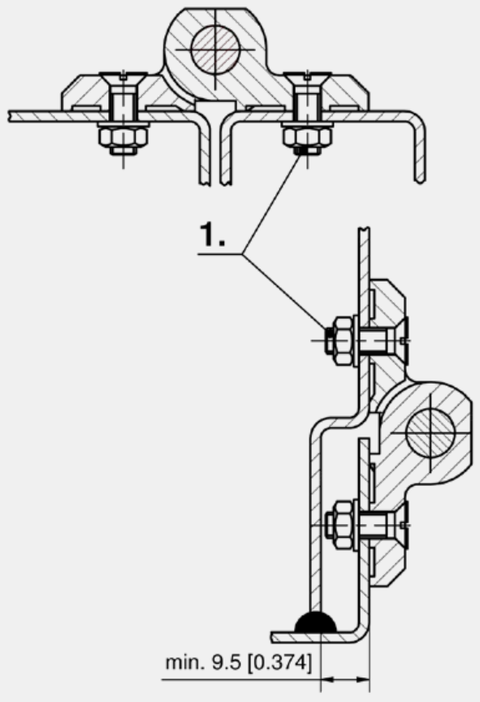
- **Hinge:** PA, black
- **Pin:** stainless steel

Remarks

1. = Fastening with countersunk screw M5

DIN 7991 or DIN ISO 10642 and DIN 965 or DIN ISO 7046





Hinge

Part Number	Version	Material pin	Installation type
218-9425.00-00000	RH	stainless steel	screw-on
218-9426.00-00000	LH	stainless steel	screw-on

Hinge Pr01 180°

[4-315]



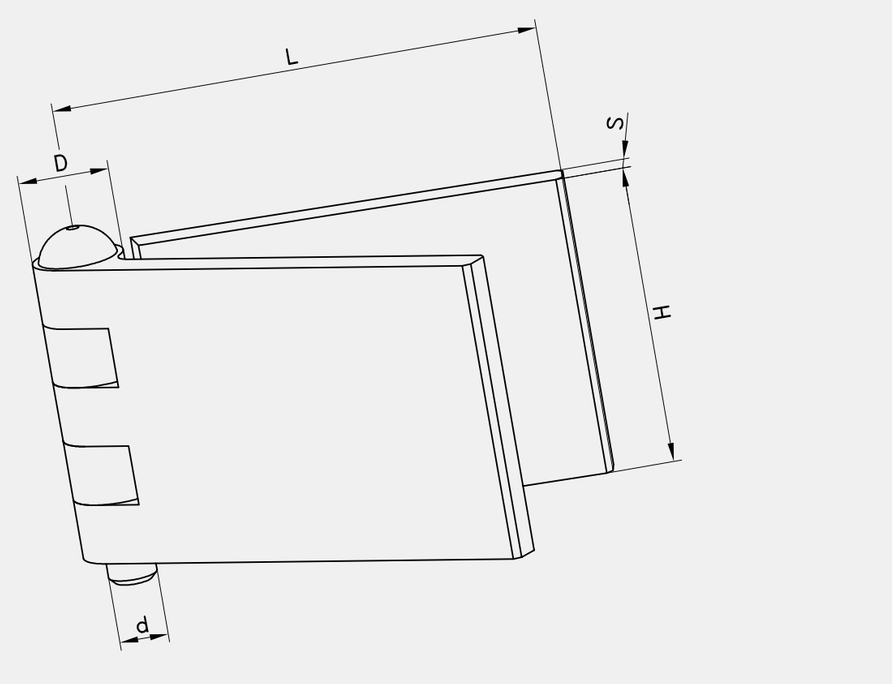
for nested door

Advantages

- Weld-on Hinge for heavy duty applications, made from forged profile steel.
- 180° Opening angle.

Materials

- **Hinge:** steel, untreated



Hinge

Part Number	Height H	Length	Strength S	Ø Knurl D	Material pin	Pin version	Ø Pin d	Installation type
233-9101.00-00000	40 mm	60 mm	5 mm	12 mm	steel untreated	loose	6 mm	weld-on
233-9102.00-00000	40 mm	100 mm	5 mm	12 mm	steel untreated	loose	6 mm	weld-on
233-9103.00-00000	50 mm	60 mm	5 mm	12 mm	steel untreated	loose	6 mm	weld-on
233-9104.00-00000	50 mm	100 mm	5 mm	12 mm	steel untreated	loose	6 mm	weld-on
233-9201.00-00000	50 mm	80 mm	6 mm	15 mm	steel untreated	loose	8 mm	weld-on
233-9202.00-00000	60 mm	60 mm	6 mm	15 mm	steel untreated	loose	8 mm	weld-on
233-9203.00-00000	80 mm	80 mm	6 mm	15 mm	steel untreated	loose	8 mm	weld-on
233-9204.00-00000	80 mm	100 mm	6 mm	15 mm	steel untreated	loose	8 mm	weld-on

Hinge Pr01 270°

[4-278]



for nested door

Advantages

- Screw-on hinge.
- 270° opening angle.
- As an alternative please refer to the stainless steel version on product system 7-260.

Materials

a) and b)

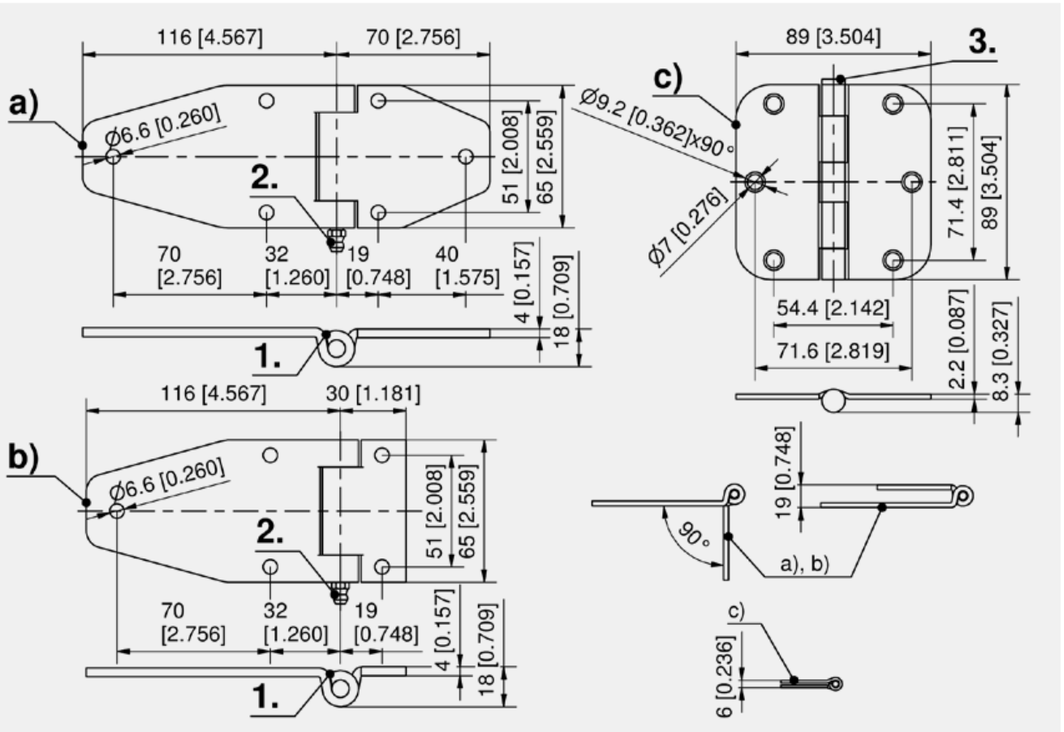
- **Hinge-halves:** steel, zinc plated or black coated

c)

- **Hinge complete:** steel, chrome plated or dull brass plated

Remarks

1. both rolls of long shank welded
2. grease nippel
3. tight pin



Hinge

	Part Number	Version	Width W	Height H	Pin version	Installation type
a)	267-9003.00-00000	zinc plated	186 mm	65 mm	pressed in	screw-on
a)	267-9006.00-00000	black coated	186 mm	65 mm	pressed in	screw-on
b)	267-9004.00-00000	zinc plated shortened shank	146 mm	65 mm	pressed in	screw-on
c)	267-9701.00-00000	chrome plated	89 mm	89 mm	pressed in	screw-on
c)	267-9702.00-00000	brassed	89 mm	89 mm	pressed in	screw-on

Hinge Pr01 270° Stainless Steel

[7-260]



Lift-off, for nested door, stainless steel

Advantages

- Screw-on hinge.
- 270° opening angle.
- Version c) is a Lift-off hinge.

Materials

a) and b)

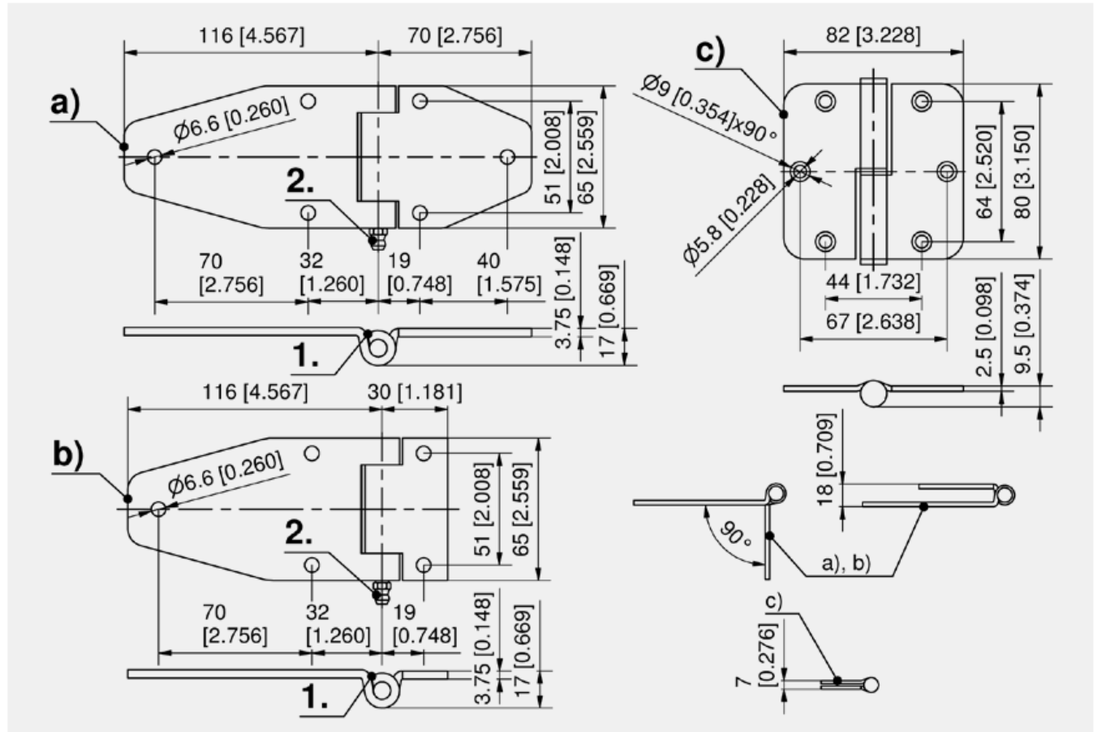
- **Hinge-parts:** stainless steel AISI 304, matt polished

c)

- **Hinge complete:** stainless steel, satin polished

Remarks

1. both rolls of long shank welded
2. grease nipple



Hinge

	Part Number	Version	Width W	Height H	Material pin	Pin version	Installation type
a)	267-9005.00-00000		186 mm	65 mm	stainless steel	pressed in	screw-on
b)	267-9007.00-00000		146 mm	65 mm	stainless steel	pressed in	screw-on
c)	267-9303.00-00000	RH	82 mm	80 mm	stainless steel	pressed in	screw-on
c)	267-9304.00-00000	LH	82 mm	80 mm	stainless steel	pressed in	screw-on

Hinge Pr01 180°

[4-330]



for nested door

Advantages

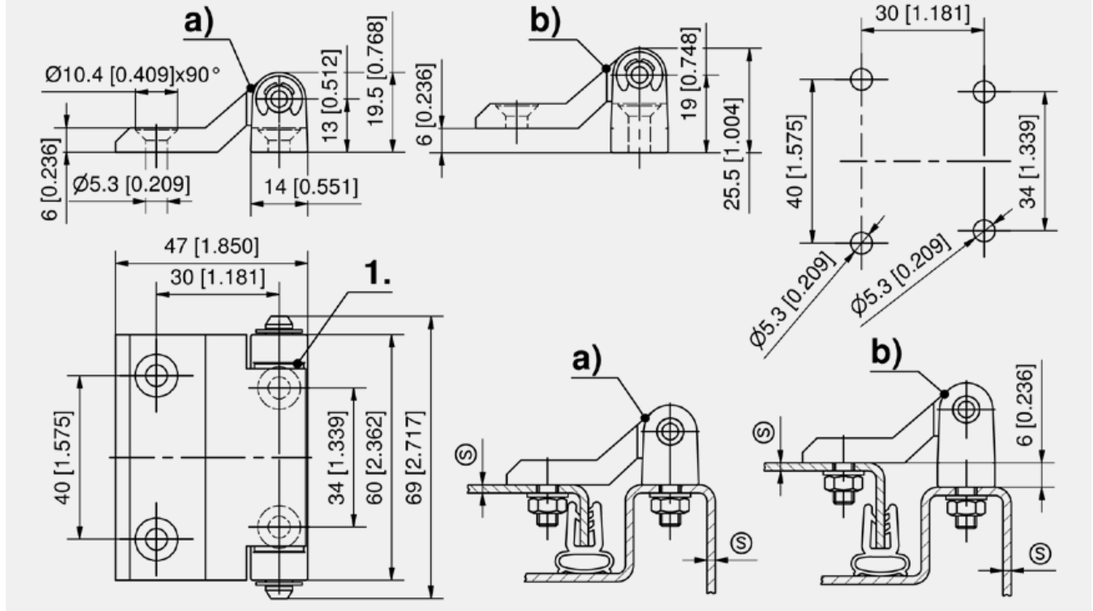
- Hinge with PA bushings.
- 180° Opening angle.

Materials

- **Hinge-halves:** zinc die, chrome plated or black
- **Pin:** stainless steel or steel, zinc plated
- **Bushings:** PA, natural

Remarks

1. PA bushings



Hinge, Frame-part chrome plated

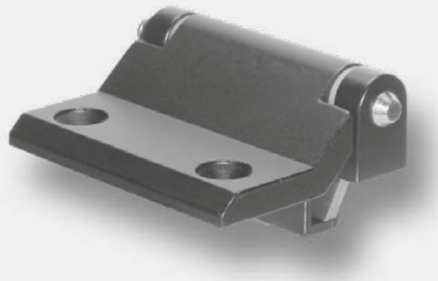
	Part Number	Frame-part	Material pin	Pin length L	Ø Pin d	Installation type
a)	217-9109.00-00000	normal	steel, zinc plated	69 mm	6.5 mm	screw-on
a)	217-9110.00-00000	normal	stainless steel	69 mm	6.5 mm	screw-on
b)	217-9116.00-00000	raised	steel, zinc plated	69 mm	6.5 mm	screw-on
b)	217-9117.00-00000	raised	stainless steel	69 mm	6.5 mm	screw-on

Hinge, Frame-part black

	Part Number	Frame-part	Material pin	Pin length L	Ø Pin d	Installation type
a)	217-9101.00-00000	normal	steel, zinc plated	69 mm	6.5 mm	screw-on
a)	217-9102.00-00000	normal	stainless steel	69 mm	6.5 mm	screw-on
b)	217-9103.00-00000	raised	steel, zinc plated	69 mm	6.5 mm	screw-on
b)	217-9104.00-00000	raised	stainless steel	69 mm	6.5 mm	screw-on

DST Hinge Pr01 180°

[4-330DST]



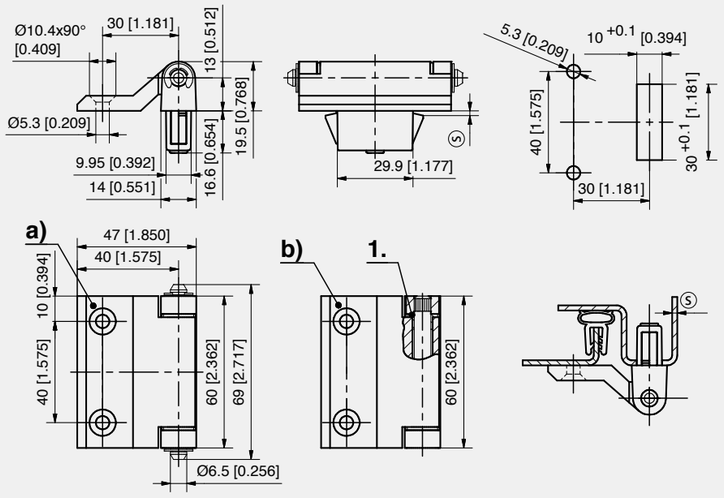
frame-part snap-in, for nested door

Advantages

- Hinge with DIRAK-SNAP-Technology frame-part snap-in.
- 180° Opening angle.
- **1.** PA bushings at both ends (version a) and b)).
- Further details and dimensions see product system 4-330.

Materials

- **Frame-part and door-part:** zinc die, black
- **Loose pin:** steel, zinc plated
- **Fixed pin:** stainless steel
- **Bushings:** PA, natural
- **Washers:** steel, zinc plated
- **Snap wedges:** sintered metal, coated



Hinge

	Part Number	Clamping range	Material pin	Pin version	Pin length L	Installation type
a)	417-9001.00-00015	1.2 - 1.7 mm	steel, zinc plated	loose	69 mm	tool-less / screw-on
a)	417-9001.00-00020	1.7 - 2.2 mm	steel, zinc plated	loose	69 mm	tool-less / screw-on
a)	417-9001.00-00025	2.2 - 2.7 mm	steel, zinc plated	loose	69 mm	tool-less / screw-on
a)	417-9001.00-00030	2.7 - 3.2 mm	steel, zinc plated	loose	69 mm	tool-less / screw-on
b)	417-9101.00-00015	1.2 - 1.7 mm	stainless steel	fixed	60 mm	tool-less / screw-on
b)	417-9101.00-00020	1.7 - 2.2 mm	stainless steel	fixed	60 mm	tool-less / screw-on
b)	417-9101.00-00025	2.2 - 2.7 mm	stainless steel	fixed	60 mm	tool-less / screw-on
b)	417-9101.00-00030	2.7 - 3.2 mm	stainless steel	fixed	60 mm	tool-less / screw-on

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 180°

[4-340]



for nested door

Advantages

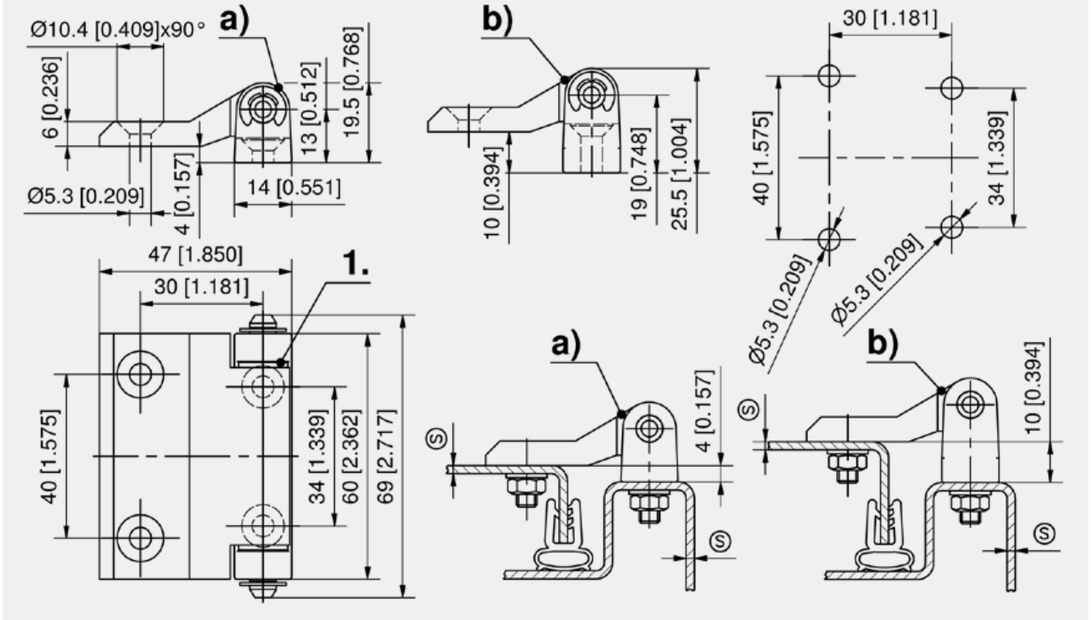
- Hinge with PA bushings.
- 180° Opening angle.

Materials

- **Hinge-halves:** zinc die, chrome plated or black
- **Pin:** stainless steel or steel, zinc plated
- **Bushings:** PA, natural

Remarks

1. PA bushings



Hinge, Frame-part chrome plated

	Part Number	Frame-part	Length	Material pin	Pin length L	Ø Pin d	Installation type
a)	217-9111.00-00000	normal	60 mm	steel, zinc plated	69 mm	6.5 mm	screw-on
a)	217-9112.00-00000	normal	60 mm	stainless steel	69 mm	6.5 mm	screw-on
b)	217-9118.00-00000	raised	60 mm	steel, zinc plated	69 mm	6.5 mm	screw-on
b)	217-9119.00-00000	raised	60 mm	stainless steel	69 mm	6.5 mm	screw-on

Hinge, Frame-part black

	Part Number	Frame-part	Length	Material pin	Pin length L	Ø Pin d	Installation type
a)	217-9105.00-00000	normal	60 mm	steel, zinc plated	69 mm	6.5 mm	screw-on
a)	217-9106.00-00000	normal	60 mm	stainless steel	69 mm	6.5 mm	screw-on
b)	217-9107.00-00000	raised	60 mm	steel, zinc plated	69 mm	6.5 mm	screw-on
b)	217-9108.00-00000	raised	60 mm	stainless steel	69 mm	6.5 mm	screw-on

DST Hinge Pr01 180°

[4-340DST]



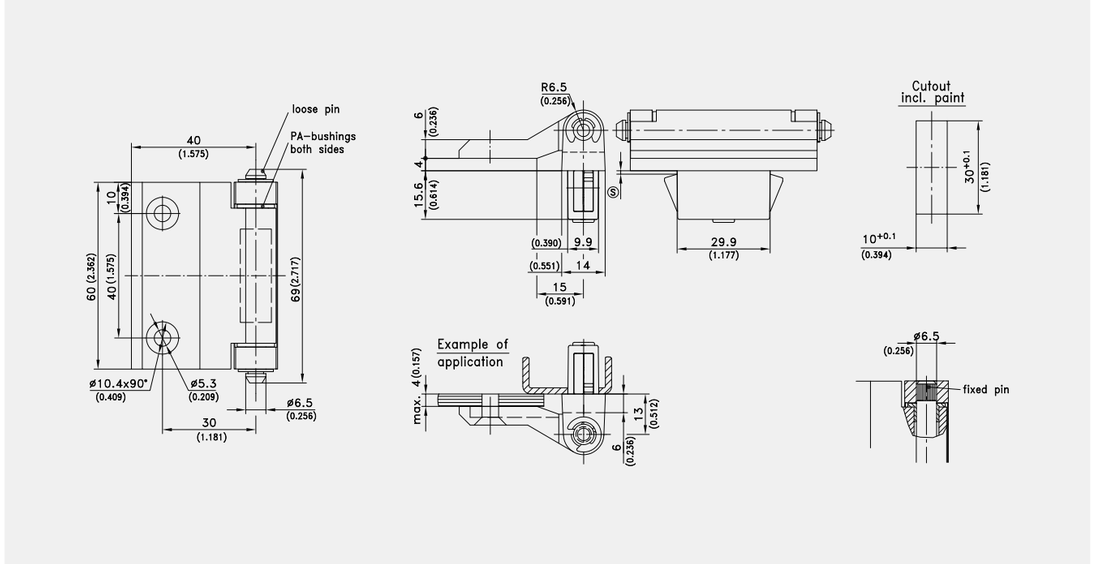
for nested door

Advantages

- Hinge with DIRAK-SNAP-Technology.
- 180° Opening angle.
- Frame-part snap-in.
- Door-part with countersunk holes for screw-on.
- Further details and dimensions see product system 4-340.

Materials

- **Hinge parts:** zinc die, black
- **Loose and fixed pin:** stainless steel
- **Bushings:** PA, natural
- **Washers:** stainless steel
- **Snap wedges:** sintered steel



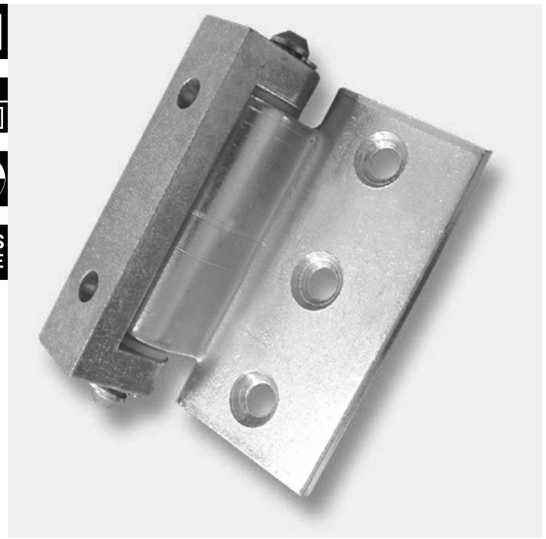
Hinge

Part Number	Clamping range	Material pin	Pin version	Pin length L	Installation type
417-9106.00-00015	1.2 - 1.7 mm	stainless steel	loose	69 mm	tool-less / screw-on
417-9106.00-00020	1.7 - 2.2 mm	stainless steel	loose	69 mm	tool-less / screw-on
417-9106.00-00025	2.2 - 2.7 mm	stainless steel	loose	69 mm	tool-less / screw-on
417-9106.00-00030	2.7 - 3.2 mm	stainless steel	loose	69 mm	tool-less / screw-on
417-9109.00-00015	1.2 - 1.7 mm	stainless steel	fixed	60 mm	tool-less / screw-on
417-9109.00-00020	1.7 - 2.2 mm	stainless steel	fixed	60 mm	tool-less / screw-on
417-9109.00-00025	2.2 - 2.7 mm	stainless steel	fixed	60 mm	tool-less / screw-on
417-9109.00-00030	2.7 - 3.2 mm	stainless steel	fixed	60 mm	tool-less / screw-on

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 180°

[4-355]



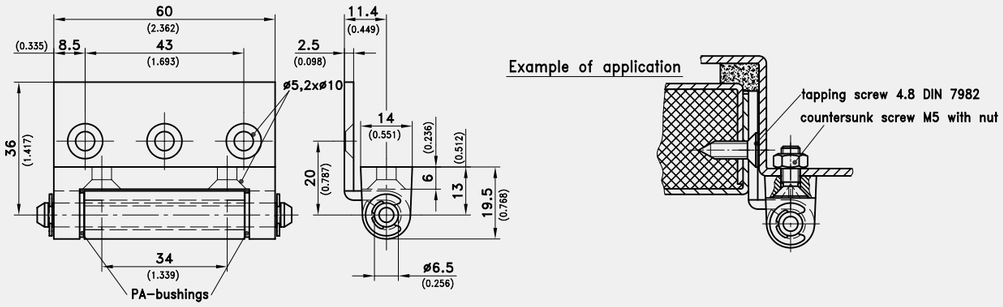
for nested door

Advantages

- Screw-on hinge for flush doors, with PA bushings.
- RH or LH application.
- 180° Opening angle.

Materials

- **Frame-part:** zinc die, zinc plated
- **Door-part:** steel, zinc plated
- **Pin:** steel, zinc plated
- **Bushings:** PA, natural



Hinge

Part Number	Material pin	Ø Pin d	Installation type
217-9501.00-00000	steel, zinc plated	6.5 mm	screw-on

DST Hinge Pr01 180°

[4-355DST]



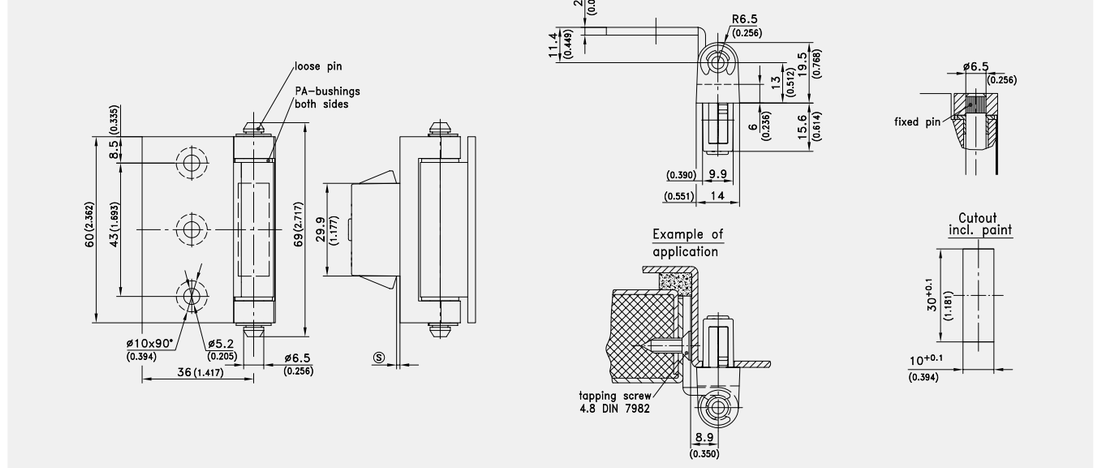
for nested door

Advantages

- Hinge with DIRAK-SNAP-Technology for flush doors.
- RH and LH application.
- Frame-part clip-in.
- Door-part with countersunk holes for screws M5.
- Further details and dimensions see product system 4-355.
- 180° Opening angle.

Materials

- **Hinge parts:** zinc die, black
- **Loose pin:** steel, zinc plated
- **Fixed pin:** stainless steel
- **Bushings:** PA, natural
- **Washers:** steel, zinc plated
- **Snap wedges:** sintered metal, coated



Hinge

Part Number	Clamping range	Pin version	Material pin	Pin length L	Installation type
417-9103.00-00015	1.2 - 1.7 mm	loose	steel, zinc plated	69 mm	tool-less / screw-on
417-9103.00-00020	1.7 - 2.2 mm	loose	steel, zinc plated	69 mm	tool-less / screw-on
417-9103.00-00025	2.2 - 2.7 mm	loose	steel, zinc plated	69 mm	tool-less / screw-on
417-9103.00-00030	2.7 - 3.2 mm	loose	steel, zinc plated	69 mm	tool-less / screw-on
417-9108.00-00015	1.2 - 1.7 mm	fixed	stainless steel	60 mm	tool-less / screw-on
417-9108.00-00020	1.7 - 2.2 mm	fixed	stainless steel	60 mm	tool-less / screw-on
417-9108.00-00025	2.2 - 2.7 mm	fixed	stainless steel	60 mm	tool-less / screw-on
417-9108.00-00030	2.7 - 3.2 mm	fixed	stainless steel	60 mm	tool-less / screw-on

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 200° Stainless Steel

[7-220]



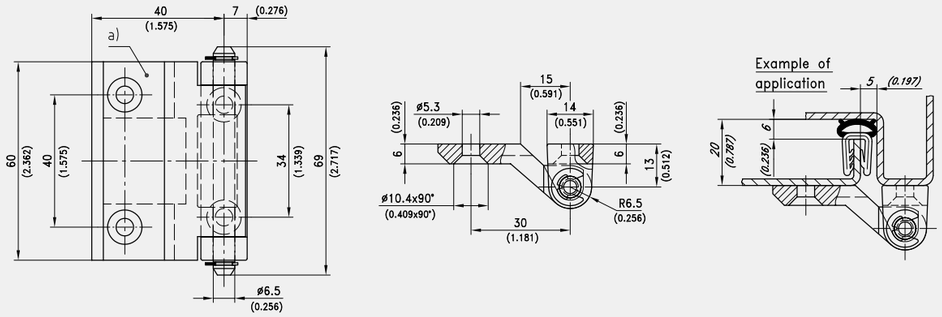
for nested door, stainless steel AISI 316

Advantages

- Hinge for flush constructions.
- 200° Opening angle .
- RH or LH application.
- Very good for installation on narrow frame widths.

Materials

- **Hinge parts:** stainless steel AISI 316
- **Washers:** stainless steel



Hinge

	Part Number	Width W	Height H	Material pin	Pin length L	Installation type
a)	217-9601.00-00000	40 mm	60 mm	stainless steel	69 mm	screw-on

Hinge Pr01 180° Stainless Steel

[7-225]



adjustable, for nested door, stainless steel AISI 316Ti

Advantages

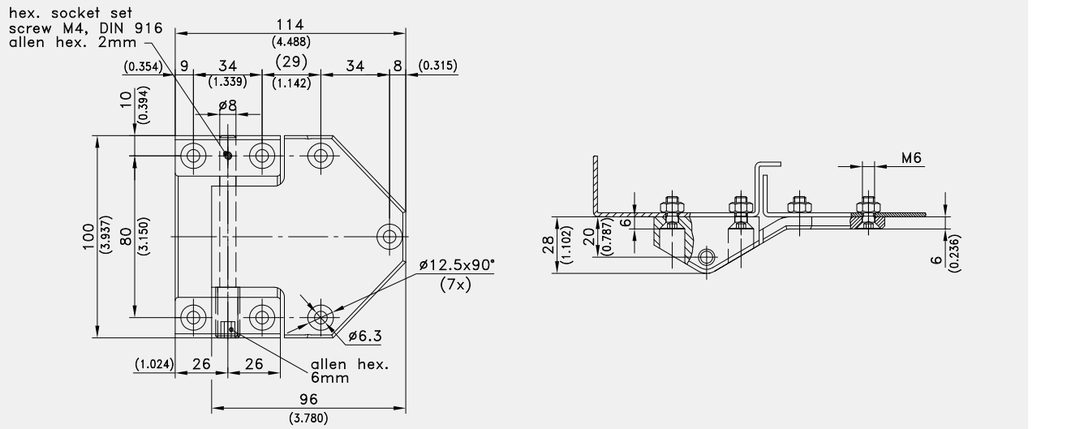
- For nested doors.
- Hinge visible.
- 180° Opening angle.
- Threaded hinge pin allows for height adjustability of ±4mm.
- Screw-on.

Materials

- **All parts:** stainless steel AISI 316 Ti, satin polished

Remarks

Properties of material
AISI 316 Ti: The titanium increases even further the corrosion resistance particularly the intercristalline corrosion at the grain boundaries



Hinge, adjustable

Part Number	Width W	Height H	Adjustment direction	Material pin	Installation type
217-9605.00-00000	114 mm	100 mm	Height	stainless steel	screw-on

Hinge Pr01/04 180°

[4-345]



for nested door or surface mounted door

Advantages

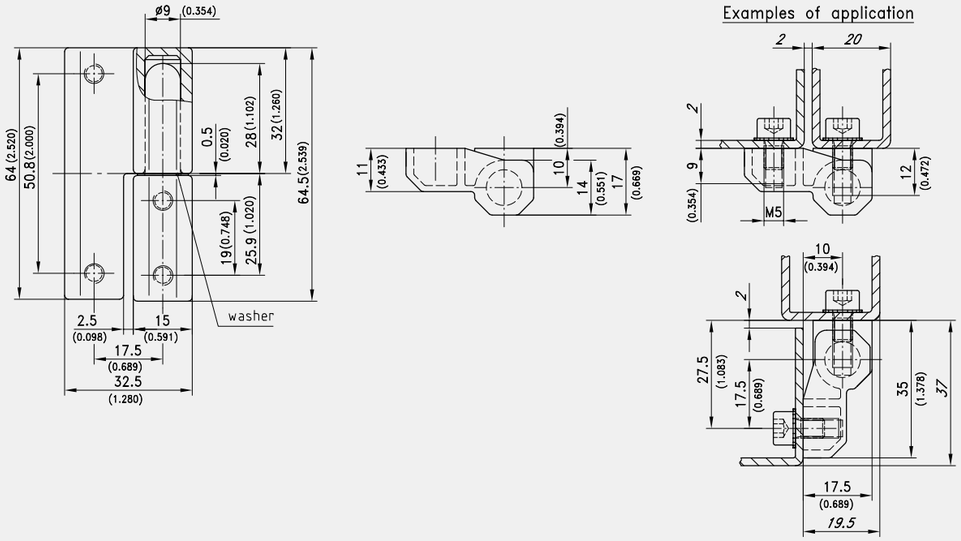
- Elegant screw-on hinge.
- Lift-off.
- The installation screws are concealed.
- Although designed initially for flush constructions, this hinge can also be used for surface mounted doors (refer to lower example of application).
- **Attention:** In this case the opening angle is only about 130°.
- See product system 4-346.

Materials

- **Hinge:** zinc die, chrome plated or black
- **Spacer:** Teflon, black or white

Remarks

Due to the endless number of different applications with often extremely limited fitting space (e.g. upper example of application) we do not include any screws for this hinge.



Hinge, zinc die, black

Part Number	Version	Pin version	Ø Pin d	Installation type
217-9503.00-00000	RH	molded in	9 mm	screw-on
217-9504.00-00000	LH	molded in	9 mm	screw-on

Hinge, zinc die, chrome plated

Part Number	Version	Pin version	Ø Pin d	Installation type
217-9505.00-00000	RH	molded in	9 mm	screw-on
217-9506.00-00000	LH	molded in	9 mm	screw-on

DST Hinge Pr01/04 180°

[4-345DST]



for nested door or surface mounted door

Advantages

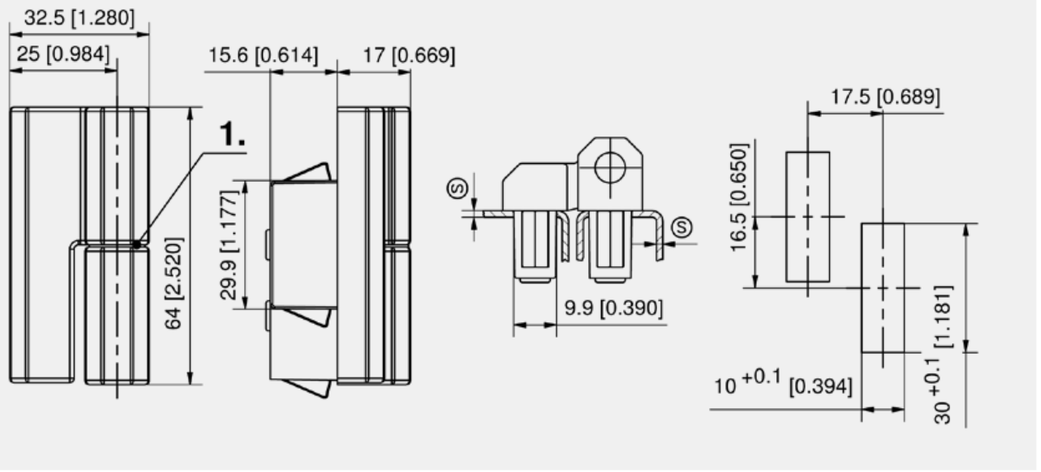
- Appealing hinge with DIRAK-SNAP-Technology for nested/flush constructions.
- Lift-off.
- 180° Opening angle.
- Although designed initially for flush constructions, this hinge can also be used for surface mounted doors (refer to lower example of application).
- **Attention: In this case the opening angle is only about 130°. See product system 4-346DST.**
- The installation of the frame-part and door-part is achieved tool-less by a simple push into appropriate cutouts.

Materials

- **Hinge parts:** zinc die, matt black
- **Pin cast on:** zinc die
- **For heavy duty! Solid pin, pressed in:** stainless steel
- **Washer:** Teflon, black
- **Snap wedges:** sintered steel

Remarks

1. = Washer



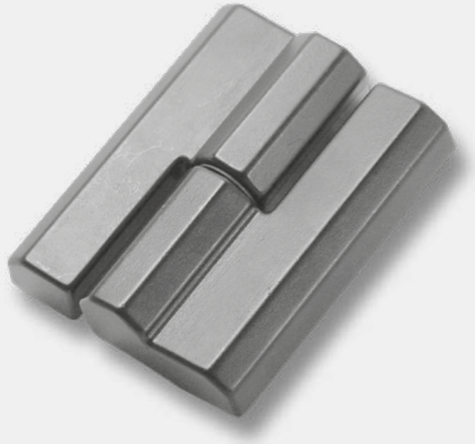
Hinge

Part Number	Clamping range	Version	Material pin	Pin version	Installation type
417-9005.00-00010	0.7 - 1.2 mm	RH	zinc die	molded in	tool-less
417-9005.00-00015	1.2 - 1.7 mm	RH	zinc die	molded in	tool-less
417-9005.00-00020	1.7 - 2.2 mm	RH	zinc die	molded in	tool-less
417-9005.00-00030	2.7 - 3.2 mm	RH	zinc die	molded in	tool-less
417-9011.00-00010	0.7 - 1.2 mm	RH	stainless steel	pressed in	tool-less
417-9011.00-00015	1.2 - 1.7 mm	RH	stainless steel	pressed in	tool-less
417-9011.00-00020	1.7 - 2.2 mm	RH	stainless steel	pressed in	tool-less
417-9011.00-00030	2.7 - 3.2 mm	RH	stainless steel	pressed in	tool-less
417-9006.00-00010	0.7 - 1.2 mm	LH	zinc die	molded in	tool-less
417-9006.00-00015	1.2 - 1.7 mm	LH	zinc die	molded in	tool-less
417-9006.00-00020	1.7 - 2.2 mm	LH	zinc die	molded in	tool-less
417-9006.00-00030	2.7 - 3.2 mm	LH	zinc die	molded in	tool-less
417-9010.00-00010	0.7 - 1.2 mm	LH	stainless steel	pressed in	tool-less
417-9010.00-00015	1.2 - 1.7 mm	LH	stainless steel	pressed in	tool-less
417-9010.00-00020	1.7 - 2.2 mm	LH	stainless steel	pressed in	tool-less
417-9010.00-00030	2.7 - 3.2 mm	LH	stainless steel	pressed in	tool-less

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 160°

[4-346]

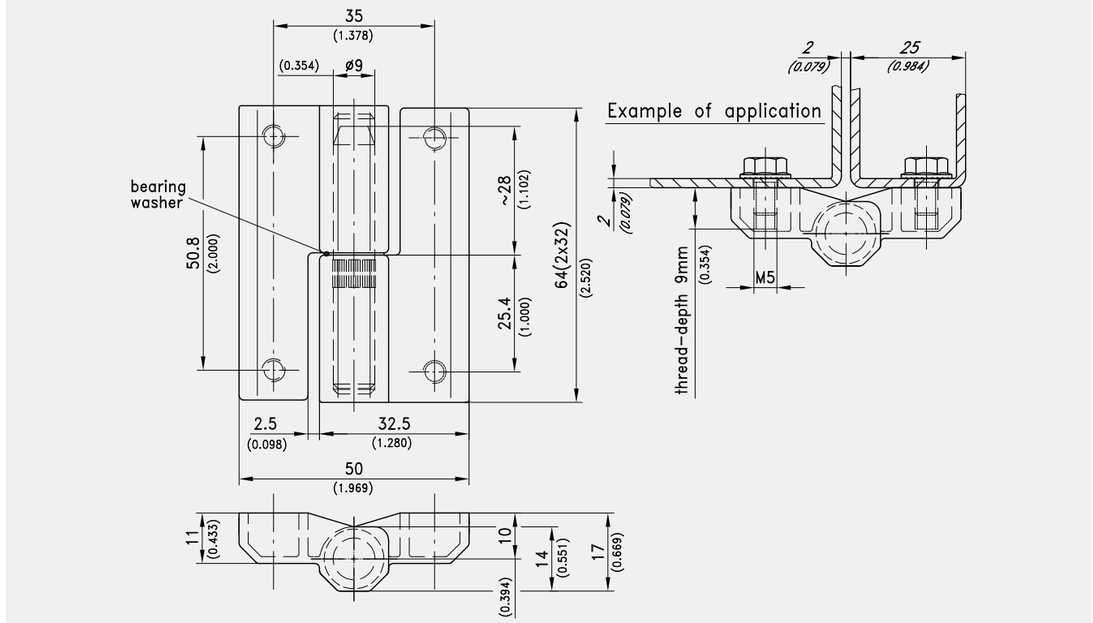


Advantages

- Elegant screw-on hinge for nested doors.
- Lift-off.
- 160° Opening angle.
- The fitting screws are concealed.
- See product system 4-345.
- The 35mm screw-distance allows for easier fitting.
- 4 screws M5x8 with under head serrations and a Teflon bearing washer are included.

Materials

- **Hinge parts:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Bearing washer:** Teflon, black or white



Hinge, zinc die, chrome plated

Part Number	Version	Material pin	Pin version	Ø Pin d	Installation type
217-9507.00-00000	RH	stainless steel	pressed in	9 mm	screw-on
217-9508.00-00000	LH	stainless steel	pressed in	9 mm	screw-on

Hinge, zinc die, black

Part Number	Version	Material pin	Pin version	Ø Pin d	Installation type
217-9509.00-00000	RH	stainless steel	pressed in	9 mm	screw-on
217-9510.00-00000	LH	stainless steel	pressed in	9 mm	screw-on

DST Hinge Pr01 160°

[4-346DST]



Advantages

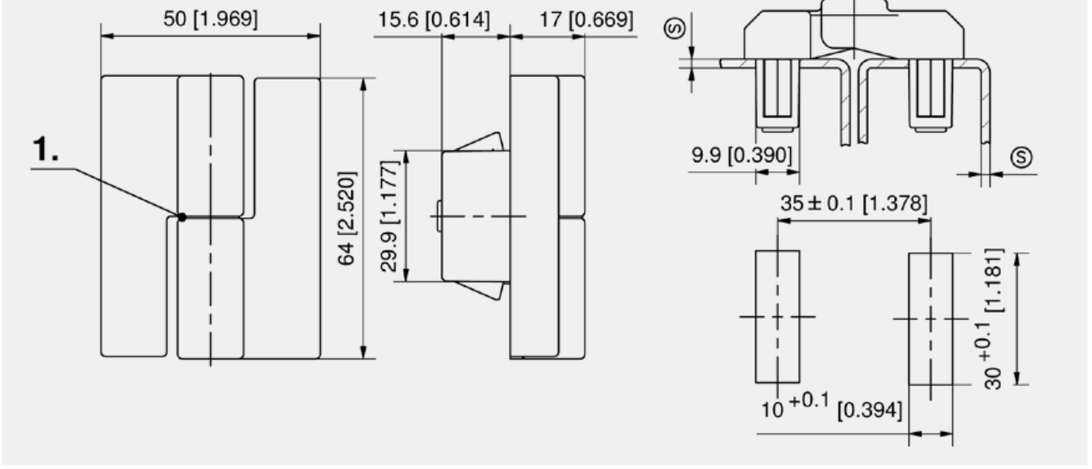
- Appealing hinge with DIRAK-SNAP-Technology for nested doors.
- Lift-off.
- 160° Opening angle.
- The installation of the frame-part and door-part is tool-less achieved by a simple push into appropriate cutouts.

Materials

- **Hinge parts:** zinc die, matt black
- **Solid Pin, pressed in:** stainless steel
- **Washer:** Teflon, black
- **Snap wedges:** sintered steel

Remarks

1. washer



Hinge, version RH

Part Number	Clamping range	Material pin	Pin version	Ø Pin d	Installation type
417-9007.00-00010	0.7 - 1.2 mm	stainless steel	pressed in	9 mm	tool-less
417-9007.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	9 mm	tool-less
417-9007.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	9 mm	tool-less
417-9007.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	9 mm	tool-less

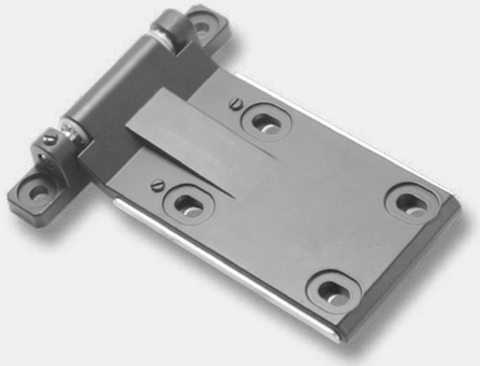
Hinge, version LH

Part Number	Clamping range	Material pin	Pin version	Ø Pin d	Installation type
417-9008.00-00010	0.7 - 1.2 mm	stainless steel	pressed in	9 mm	tool-less
417-9008.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	9 mm	tool-less
417-9008.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	9 mm	tool-less
417-9008.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	9 mm	tool-less

Accessories	
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 180°

[4-350]



Advantages

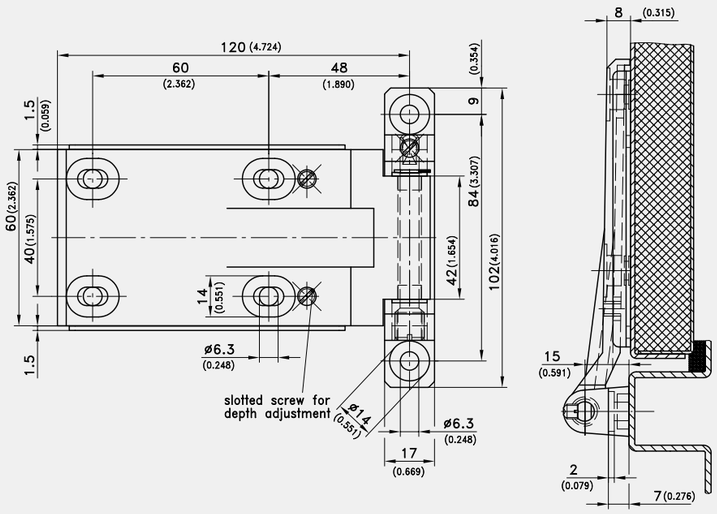
- 3D Hinge adjustable.
- For nested/ flush doors.
- Adjustable in: height ±2mm (0.079) / width ±2mm (0.079) / depth ±2mm (0.079)
- 180° Opening angle.
- RH and LH version.
- Version not assembled for RH and LH application.

Materials

- **Frame-part and door-part:** zinc die, untreated or black
- **Base-plate:** steel, zinc plated or black
- **Bushings:** PA, natural
- **Pin:** brass, untreated or stainless steel
- **Washers:** stainless steel

Remarks

Base plate has 4 holes Ø4.1 for possible additional fastening at the door.



3D Hinge

Part Number	i-field	Version	Surface	Material pin	Installation type
217-9402.00-00000		RH	untreated	brass	screw-on
217-9403.00-00000		LH	untreated	brass	screw-on
217-9404.00-00000		not assembled	untreated	brass	screw-on
217-9408.00-00000	Base plate: steel, black	RH	untreated	stainless steel	screw-on
217-9409.00-00000	Base plate: steel, black	LH	untreated	stainless steel	screw-on
217-9410.00-00000	Base plate: steel, black	not assembled	untreated	stainless steel	screw-on
217-9405.00-00000		RH	black	brass	screw-on
217-9406.00-00000		LH	black	brass	screw-on
217-9407.00-00000		not assembled	black	brass	screw-on
217-9411.00-00000	Base plate: steel, black	RH	black	stainless steel	screw-on
217-9412.00-00000	Base plate: steel, black	LH	black	stainless steel	screw-on
217-9413.00-00000	Base plate: steel, black	not assembled	black	stainless steel	screw-on

DST Hinge Pr01 180°

[4-350DST]



Advantages

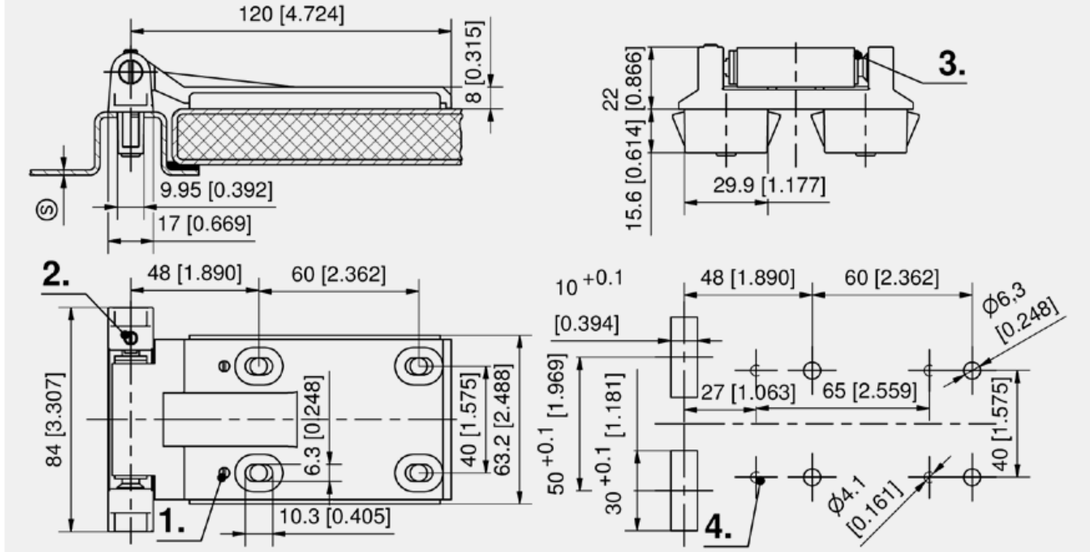
- 3D Hinge with DIRAK-SNAP-Technology.
- Adjustable.
- For nested doors.
- Adjustable in: height ±2mm (0.079) / width ±2mm (0.079) / depth ±2mm (0.079)
- 180° Opening angle.
- RH and LH version.
- The installation of the frame-part is effected by a simple push into appropriate cutouts.

Materials

- **Frame-part and door-part:** zinc die, black
- **Base-plate:** steel, zinc plated
- **Pin:** brass, untreated, stainless steel on request
- **Snap wedges:** sintered metal, coated
- **Bushings:** PA, natural
- **Studs, bearing washer and c-clips:** stainless steel

Remarks

1. pushing screw for depth adjusting
2. securing screw for adjustable brass pin
3. PA bushing
4. Base plate has 4 holes Ø4.1 for possible additional fastening at the door.



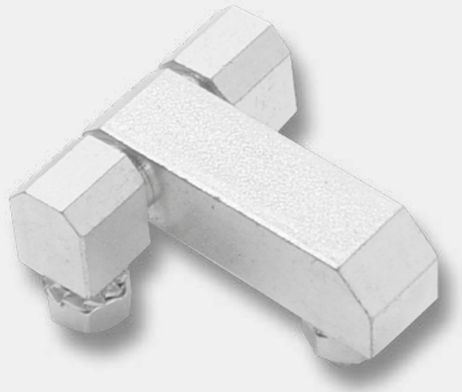
3D Hinge

Part Number	Clamping range	Version	Material pin	Installation type
417-9002.00-00015	1.2 - 1.7 mm	RH	brass	tool-less / screw-on
417-9002.00-00020	1.7 - 2.2 mm	RH	brass	tool-less / screw-on
417-9002.00-00025	2.2 - 2.7 mm	RH	brass	tool-less / screw-on
417-9002.00-00030	2.7 - 3.2 mm	RH	brass	tool-less / screw-on
417-9003.00-00015	1.2 - 1.7 mm	LH	brass	tool-less / screw-on
417-9003.00-00020	1.7 - 2.2 mm	LH	brass	tool-less / screw-on
417-9003.00-00025	2.2 - 2.7 mm	LH	brass	tool-less / screw-on
417-9003.00-00030	2.7 - 3.2 mm	LH	brass	tool-less / screw-on

Accessories	
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr01 180°

[4-194]



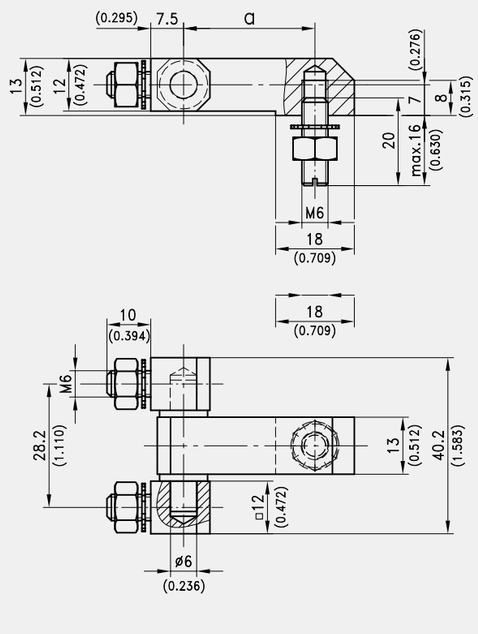
for nested door

Advantages

- Screw-on hinge for flush door construction.
- M6 stud, 3 nuts and serrated washers are included.
- 180° Opening angle.

Materials

- **Hinge halves:** steel, zinc plated
- **Washers:** brass, nickel plated
- **Stud, nuts and serrated washers:** steel, zinc plated
- **Pin:** steel, nickel plated

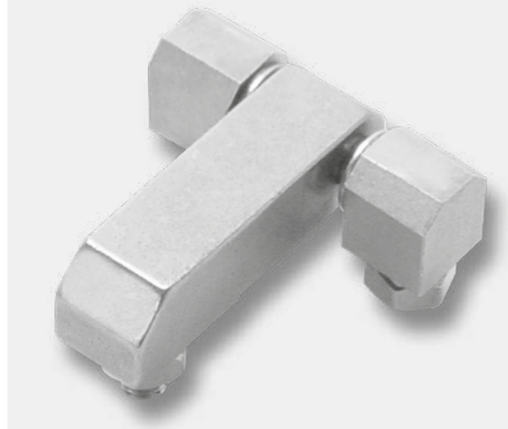


Hinge

	Part Number	Length	Dimension A	Material pin	Installation type
a)	219-9003.00-00000	45 mm	30 mm	steel, zinc plated	screw-on
b)	219-9004.00-00000	53 mm	38 mm	steel, zinc plated	screw-on

Hinge Pr01 180° Stainless Steel

[7-123]



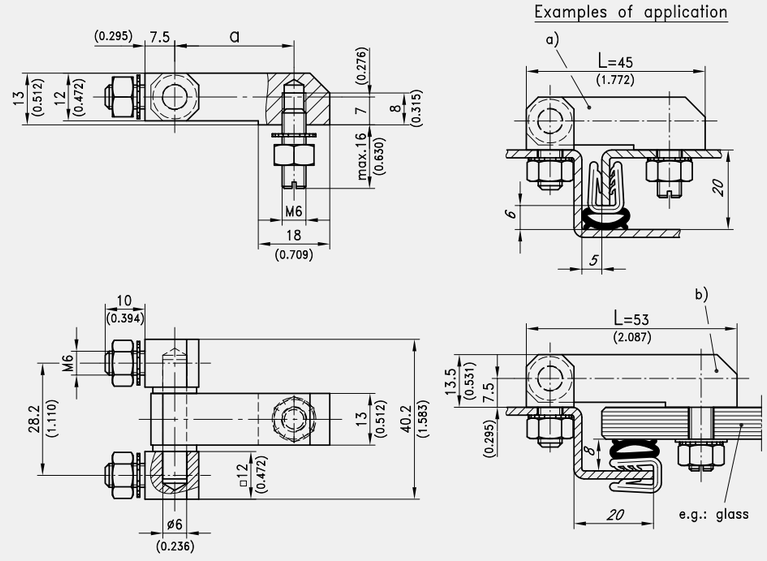
for nested door, stainless steel AISI 303

Advantages

- Screw-on hinge for nested/ flush door/frame construction.
- 3 nuts and serrated washers are included.
- 180° Opening angle.

Materials

- **Head- and middle part, pin, nuts and washers:** stainless steel AISI 304



Hinge

	Part Number	L	A	Material pin	Pin version	Installation type
a)	219-9006.00-00000	45 mm	30 mm	stainless steel	pressed in	screw-on
b)	219-9007.00-00000	53 mm	38 mm	stainless steel	pressed in	screw-on

Hinge Pr01 180°

[4-230]



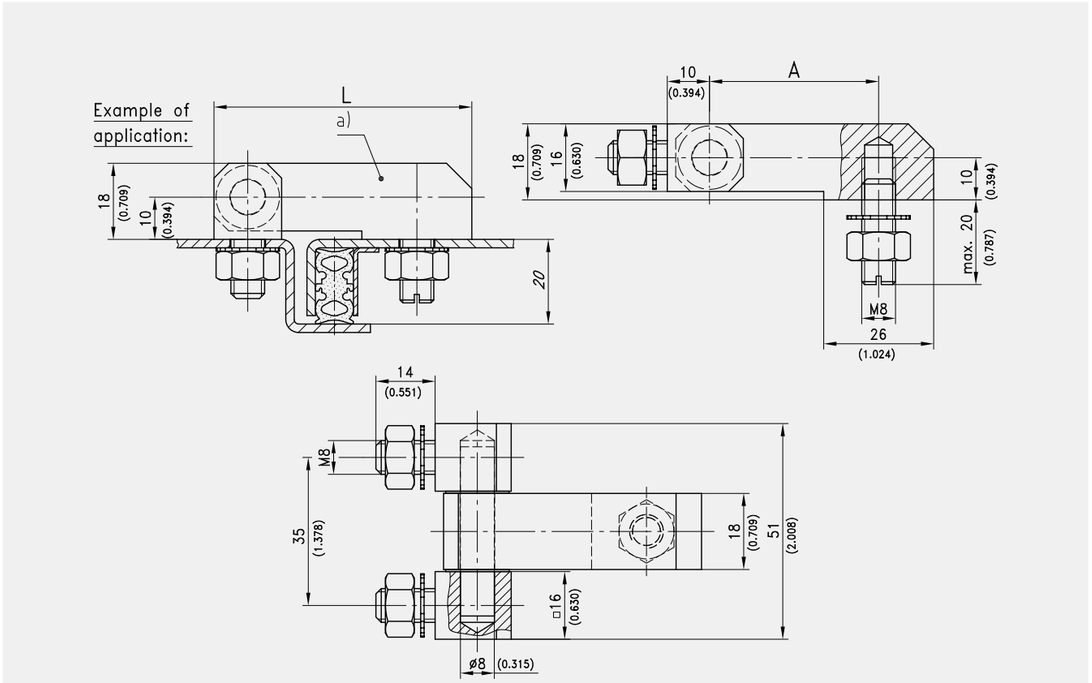
for nested door

Advantages

- Screw-on Hinge for flush door construction.
- M8 stud, 3 nuts and serrated washers are included.
- 180° Opening angle.

Materials

- **Hinge parts:** steel, zinc plated
- **Washers:** brass, nickel plated
- **Stud, nuts and serrated washers:** steel, zinc plated
- **Pin:** steel, nickel plated



Hinge

	Part Number	Length	Dimension A	Material pin	Installation type
a)	219-9102.00-00000	50 mm	29 mm	steel, nickel plated	screw-on
a)	219-9103.00-00000	61 mm	40 mm	steel, nickel plated	screw-on

Hinge Pr01 180° Stainless Steel

[7-125]



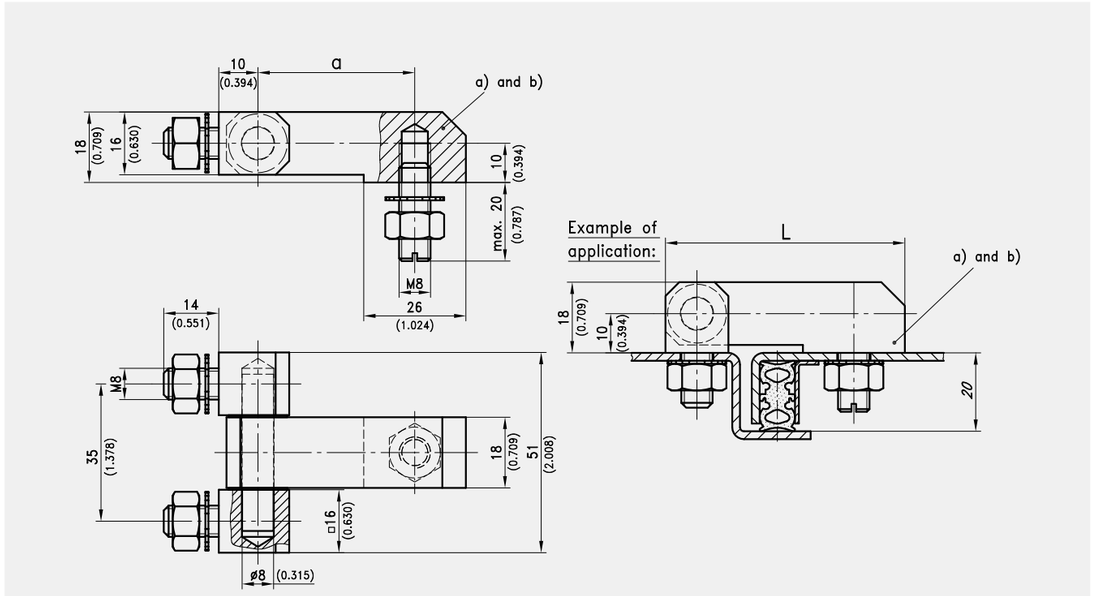
for nested door, stainless steel AISI 303

Advantages

- Screw-on hinge for nested/ flush door/frame construction, heavy duty version.
- Stud, 3 nuts and serrated washers are included.
- 180° Opening angle.

Materials

- **Head- and middle part, pin, nuts and washers:** stainless steel AISI 303

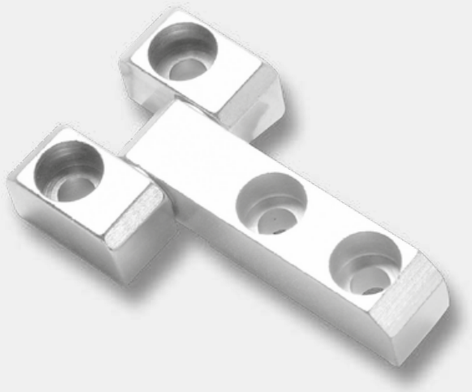


Hinge

	Part Number	L	A	Material pin	Pin version	Installation type
a)	219-9107.00-00000	50 mm	29 mm	stainless steel	pressed in	screw-on
b)	219-9108.00-00000	61 mm	40 mm	stainless steel	pressed in	screw-on

Hinge Pr01 180°

[4-225]



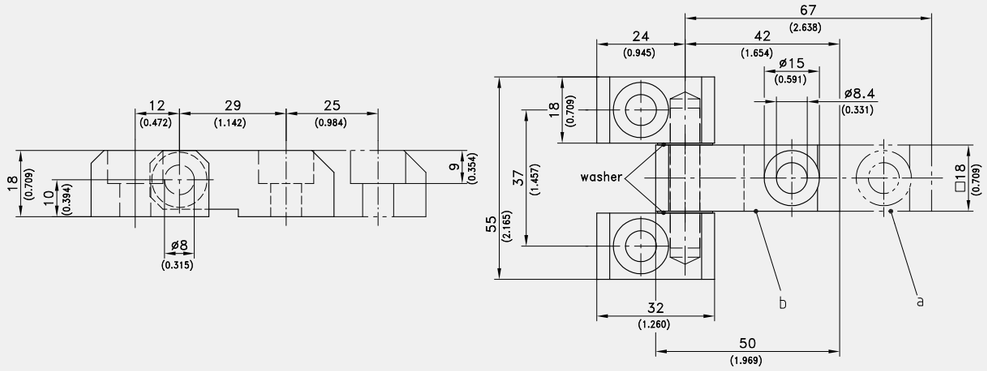
for nested door

Advantages

- Screw-on / weld-on hinge.
- 180° Opening angle.

Materials

- a) and b) **Hinge parts:** steel, zinc plated
- c) **(not drawn) Hinge middle part:** steel, untreated
- **Hinge end parts:** steel, zinc plated
- **Washer:** brass, nickel plated
- **Pin:** steel, nickel plated



Hinge, middle-part long

	Part Number	Version	Material pin	Installation type
a)	219-9109.00-00000	with two countersunk holes Ø8.4mm	steel, nickel plated	screw-on

Hinge, middle-part short

	Part Number	Version	Material pin	Installation type
b)	219-9113.00-00000	with one countersunk hole Ø8.4mm	steel, nickel plated	screw-on
c)	219-9114.00-00000	without countersunk hole	steel, nickel plated	weld-on

Hinge Pr01 180°

[4-240]



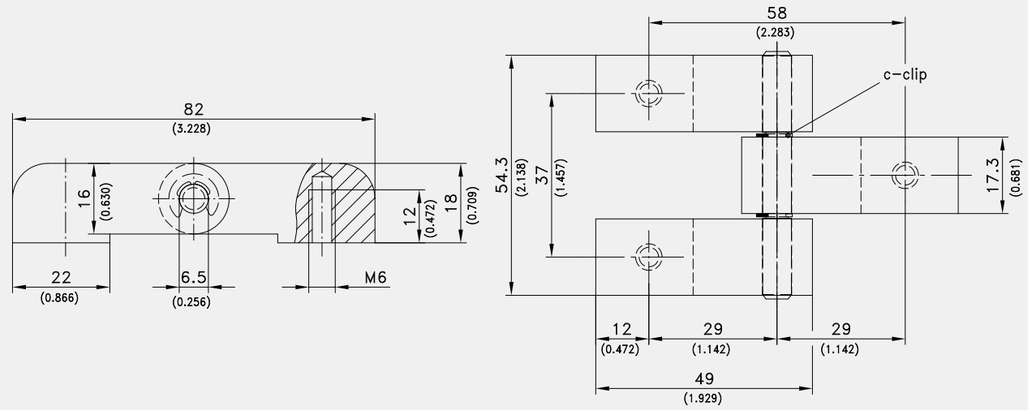
for nested door

Advantages

- Hinge for flush door construction.
- 180° Opening angle.

Materials

- **Hinge:** zinc die, black
- **Pin and washer:** stainless steel

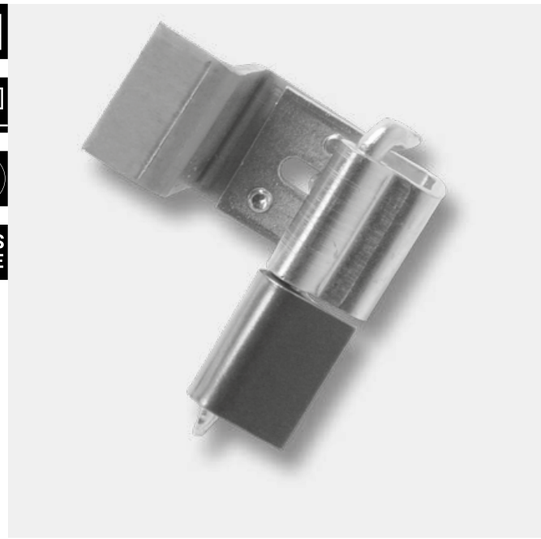


Hinge

Part Number	Material pin	Installation type
219-9104.00-00000	stainless steel	screw-on

Concealed Hinge Pr02 90°

[4-100]



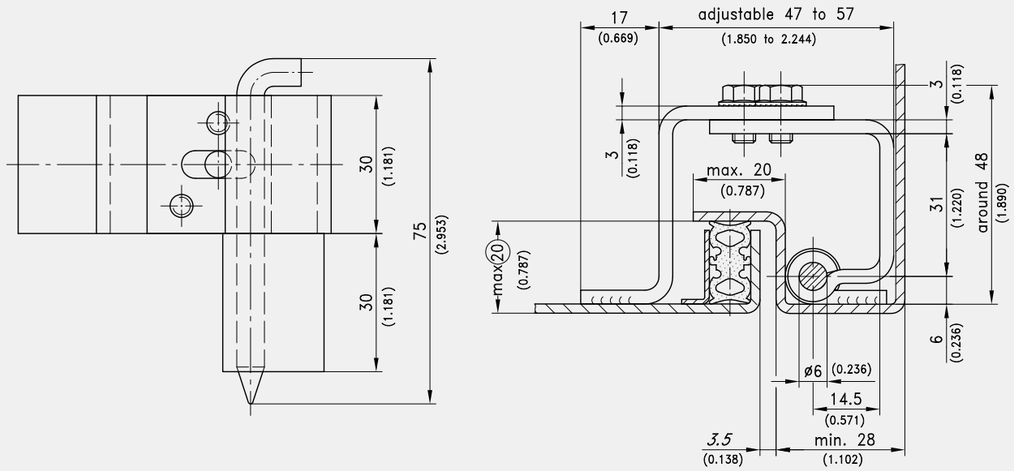
door bending 200mm, for nested door

Advantages

- The 2 main Hinge parts have a central guide to prevent door sagging during adjustment.
- RH or LH application.

Materials

- **U-part:** steel, zinc plated
- **Z-part and frame-part:** steel, untreated
- **Pin:** steel, zinc plated



Concealed Hinge

Part Number	Adjustment direction	Material pin	Installation type
222-9001.00-00000	Width	steel, zinc plated	weld-on

Concealed Hinge Pr02 90° Stainless Steel

[7-107]



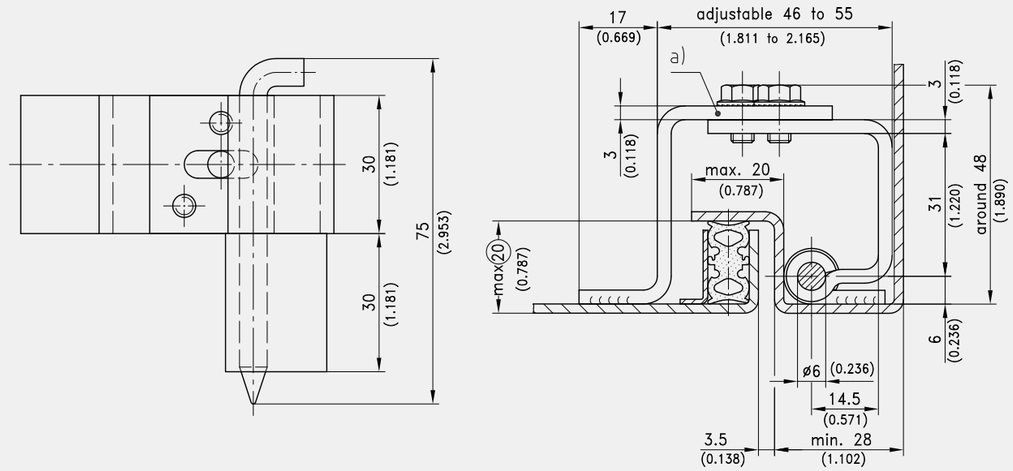
door bending 20mm, for nested door, stainless steel AISI 304

Advantages

- The 2 main hinge parts have a central guide to prevent door sagging during adjustment.
- RH or LH application.
- 90° Opening angle.

Materials

- **Concealed Hinge:** stainless steel AISI 304

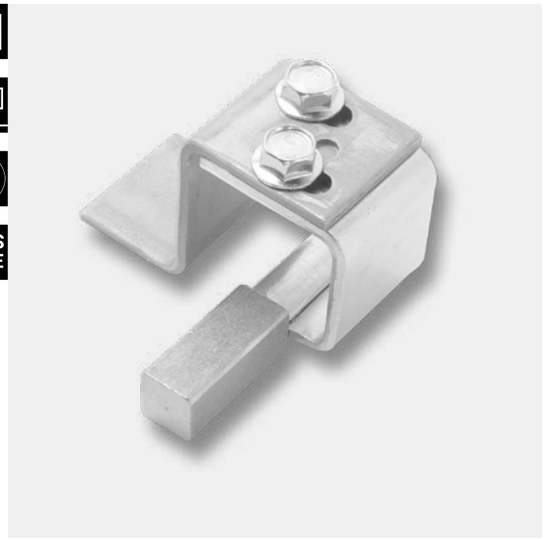


Concealed Hinge

Part Number	Material pin	Pin version	Installation type
222-9105.00-00000	stainless steel	loose	weld-on

Concealed Hinge Pr02 90°

[4-110]



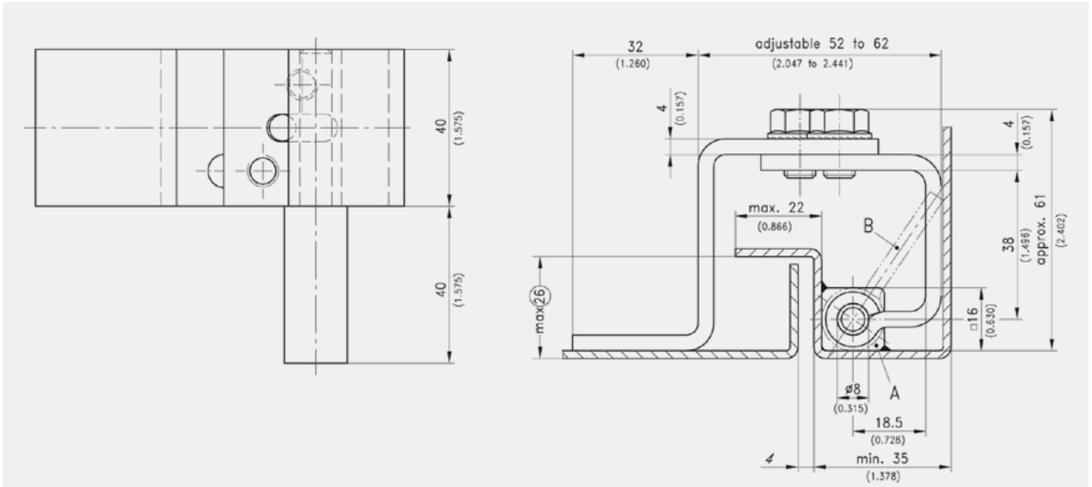
door bending 26mm, for nested door

Advantages

- The 2 main hinge parts have a central guide to prevent door sagging during adjustment.
- RH or LH application.
- 90° Opening angle.

Materials

- **U-part:** steel, zinc plated
- **Z-part:** steel, untreated
- **Pivot:** steel, untreated



Concealed Hinge

	Part Number	Version	Adjustment direction	Material pin	Installation type
A)	222-9101.00-00000	Pivot with square 16	Width	steel untreated	weld-on
B)	222-9103.00-00000	Pivot with flap	Width	steel untreated	weld-on

Concealed Hinge Pr02 90° Stainless Steel

[7-108]



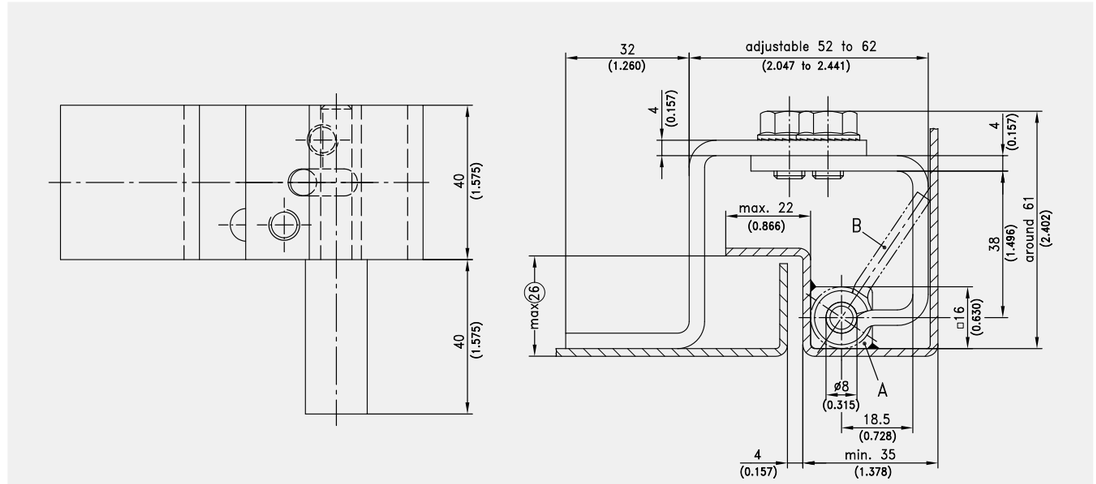
door bending 26mm, for nested door, stainless steel AISI 304

Advantages

- The 2 main hinge parts have a central guide to prevent door sagging during adjustment.
- RH or LH application.
- 90° Opening angle.

Materials

- **Concealed Hinge:** stainless steel AISI 304



Concealed Hinge

	Part Number	Version	Material pin	Pin version	Installation type
A)	222-9102.00-00000	Pivot with □16	stainless steel	molded in	weld-on
B)	222-9104.00-00000	Pivot with flap	stainless steel	molded in	weld-on

Pin Hinge Pr02 110°

[4-390]



Lift-off, for nested door, with springloaded pin

Advantages

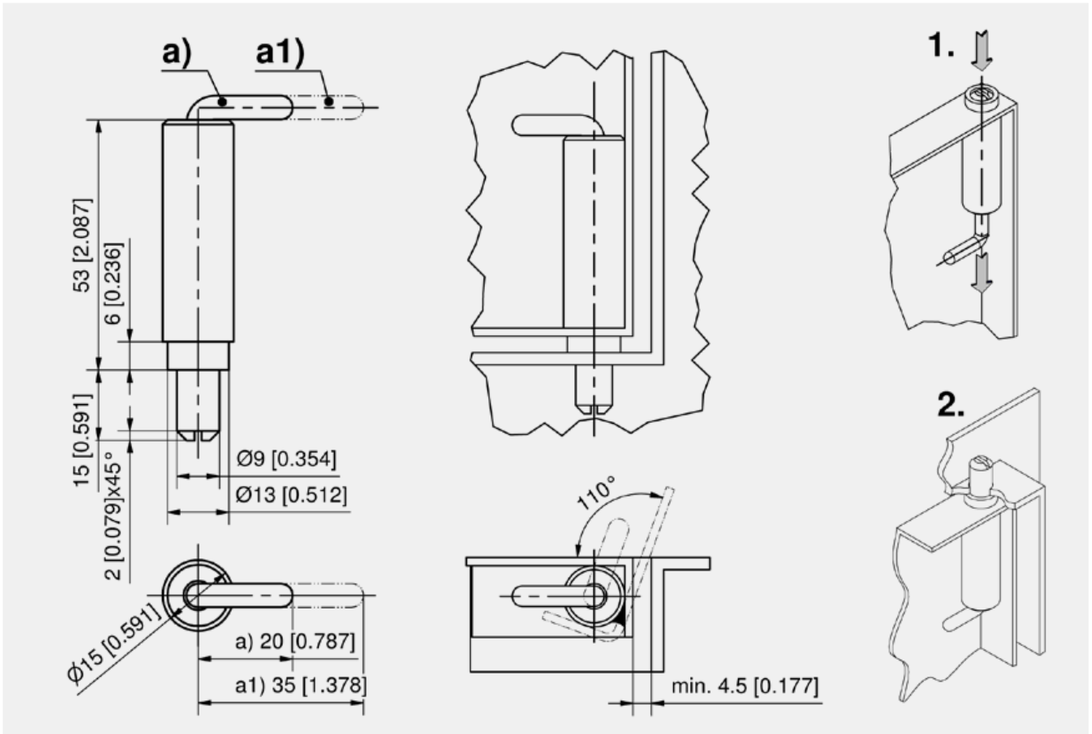
- 110° Hinge for RH and LH applications with springloaded pin.
- The barrel (steel, untreated) is welded-in.
- After the painting process, the slotted pivot pin, hooked pin and spring have to be assembled.
- 110° Opening angle.

Materials

- **Bezel:** steel, untreated
- **Pin with slot:** steel, zinc plated
- **Hook pin:** steel, zinc plated
- **Spring:** spring steel, galvanized

Remarks

1. pull the spring-loaded pin for installation and removal of the door
2. door fitted



Pin Hinge

	Part Number	Pin version	Material pin	Length	Installation type
a)	241-9001.00-00000	springloaded	steel, zinc plated	20 mm	weld-on
a1)	241-9002.00-00000	springloaded	steel, zinc plated	35 mm	weld-on

Pin Hinge Pr02 110° Stainless Steel

[7-251]



Lift-off, for nested door, stainless steel

Advantages

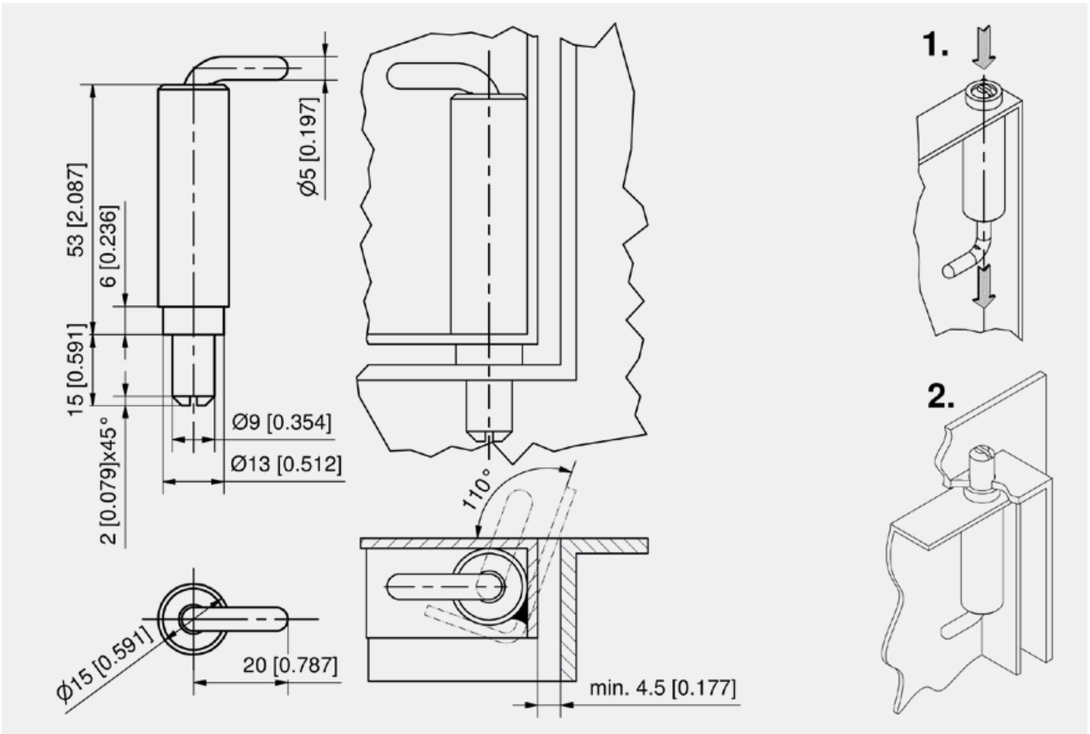
- 110° Concealed hinge with spring loaded pin for the removal of the door.
- RH and LH applications.
- The barrel is welded-in first.
- After the painting process, the slotted pivot pin, hook pin and spring have to be assembled.
- 110° Opening angle.

Materials

- **Bezel, pin, hook pin and spring:** stainless steel AISI 303

Remarks

1. pull the spring-loaded pin for installation and removal of the door
2. door fitted



Pin Hinge

Part Number	Material pin	Pin version	Installation type
241-9001.81-00000	stainless steel AISI 303	springloaded	weld-on

Pin Hinge Pr02 120°

[4-392]

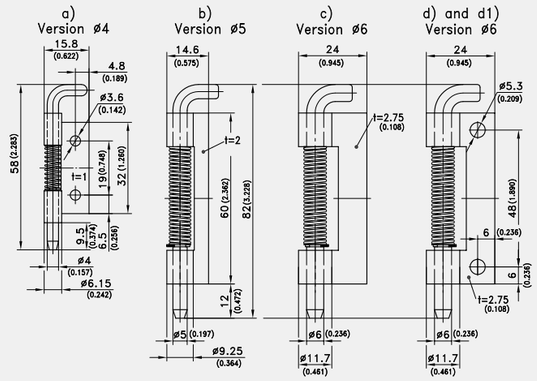


Advantages

- Lift-off.
- For nested doors.
- Version LH/ RH.
- With springloaded pin for extension of the door.
- Versions Ø5mm are just welded-on.
- Versions Ø4mm and Ø6mm are welded-on and screwed-on.
- 120° opening angle.
- Drawn is right version.

Materials

- **Door-part:** steel, untreated or steel, zinc plated
- **Pin:** steel, zinc plated
- **Spring:** stainless steel



Pin Hinge

	Part Number	Door-part	Version	Pin length L	Ø Pin d	Installation type
a)	245-9001.00-00000		RH	58 mm	4 mm	screw- / weld-on
b)	245-9103.00-00000		RH	82 mm	5 mm	weld-on
c)	245-9113.00-00000	untreated	RH	82 mm	6 mm	screw- / weld-on
d)	245-9101.00-00000	untreated	RH	82 mm	6 mm	screw- / weld-on
d1)	245-9107.00-00000	zinc plated	RH	82 mm	6 mm	screw- / weld-on
a)	245-9002.00-00000		LH	58 mm	4 mm	screw- / weld-on
b)	245-9104.00-00000		LH	82 mm	5 mm	weld-on
d)	245-9102.00-00000	untreated	LH	82 mm	6 mm	screw- / weld-on
d1)	245-9108.00-00000	zinc plated	LH	82 mm	6 mm	screw- / weld-on
b)	245-9105.00-00000		not assembled	82 mm	5 mm	weld-on
d)	245-9106.00-00000	untreated	not assembled	82 mm	6 mm	screw- / weld-on
d1)	245-9109.00-00000	zinc plated	not assembled	82 mm	6 mm	screw- / weld-on

Pin Hinge Pr02 120° Stainless Steel

[7-250]



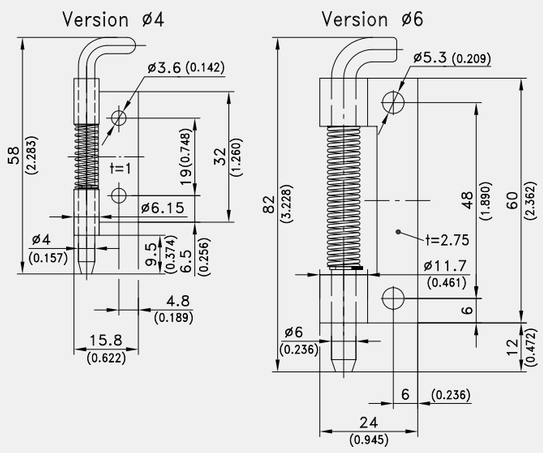
for nested door, with springloaded pin, stainless steel

Advantages

- Hinge with springloaded pin, stainless steel version, weld-on and screw-on.
- 120° Opening angle.

Materials

- **Roll, pin and spring:** stainless steel AISI 304



Pin Hinge, version Ø4

Part Number	Version	Material pin	Pin version	Installation type
245-9003.00-00000	RH	stainless steel	springloaded	screw- / weld-on
245-9004.00-00000	LH	stainless steel	springloaded	screw- / weld-on

Pin Hinge, version Ø6

Part Number	Version	Material pin	Pin version	Installation type
245-9110.00-00000	RH	stainless steel	springloaded	screw- / weld-on
245-9111.00-00000	LH	stainless steel	springloaded	screw- / weld-on
245-9112.00-00000	not assembled	stainless steel	springloaded	screw- / weld-on



Advantages

- For nested doors.
- Hinge concealed.
- Small space requirement.
- 120° Opening angle.
- The spring loaded pin allows for an easy and quick installation and removal of the door.
- A simple clip-in fitting for cut-out differ.

Materials

- **Housing:** PA, black
- **Pin:** steel, zinc plated

a) and c)

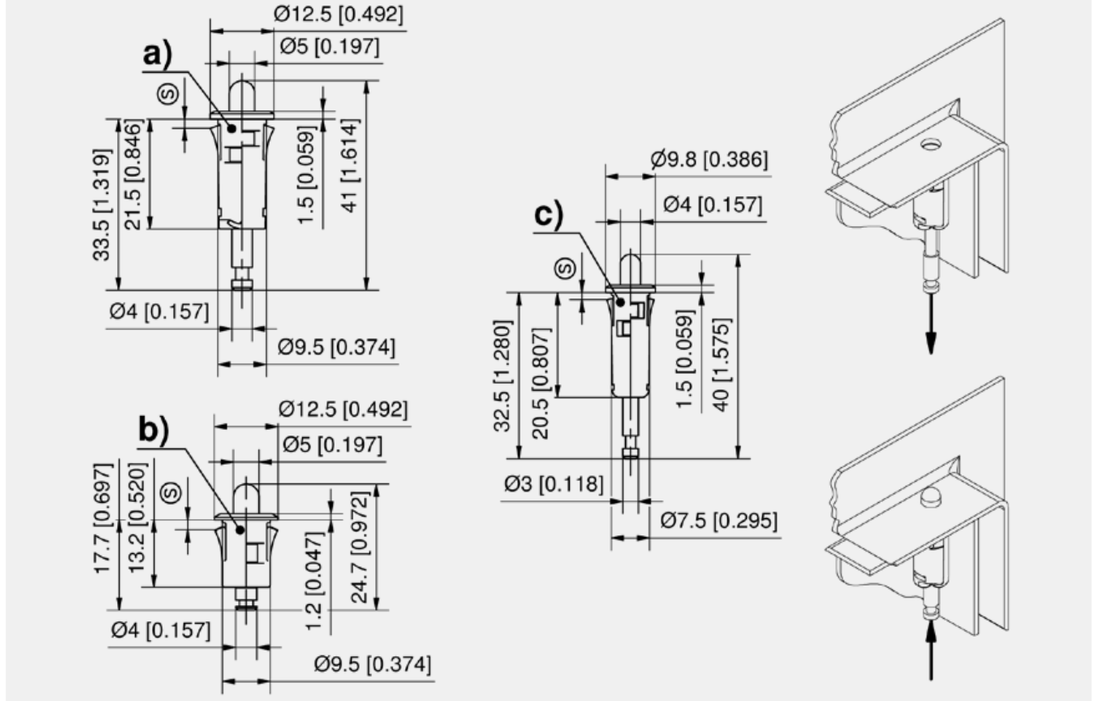
- **Spring:** stainless steel

b)

- **Spring:** steel, zinc plated

Remarks

Door-cutout and frame-cutout differ.



Pin Hinge

	Part Number	Clamping range	Material pin	Pin length L	Pin diameter	Installation type
c)	245-9301.00-00000	1.0 - 1.2 mm	steel, zinc plated	40 mm	4 mm	tool-less
b)	245-9304.07-07101	1.4 - 1.6 mm	steel, zinc plated	24.7 mm	5 mm	tool-less
a)	245-9303.00-00000	1.4 - 1.6 mm	steel, zinc plated	41 mm	5 mm	tool-less



Advantages

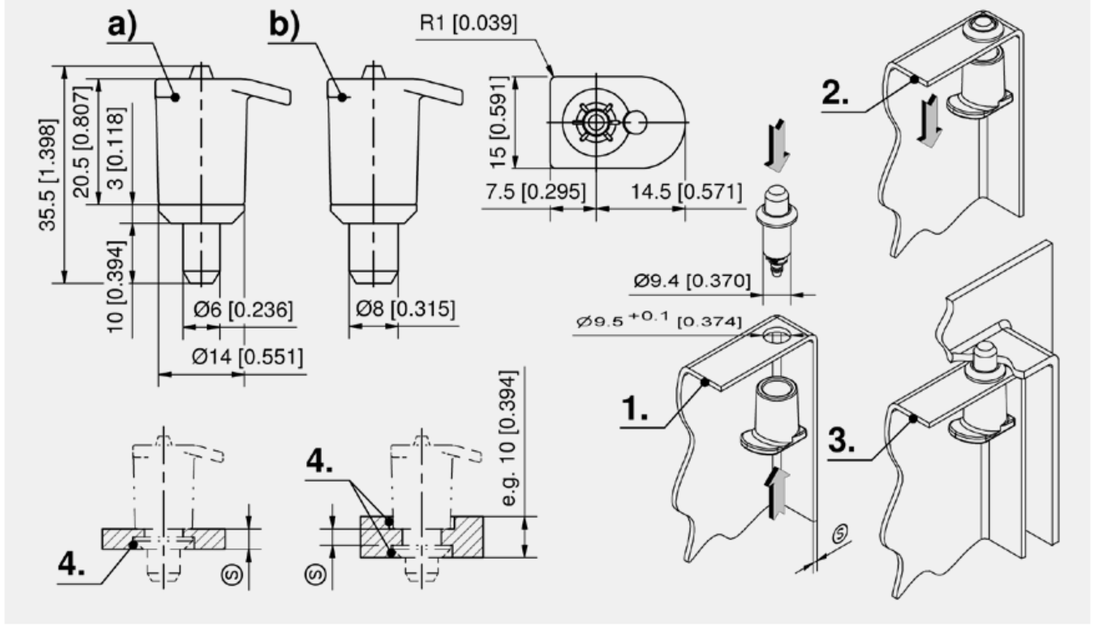
- Pin hinge with spring-loaded handle.
- Flexible use for material thicknesses up to 4mm.
- The spring loaded pin allows for an easy and quick installation and removal of the door.
- Installed using a simple push into the cutout.
- Usable also as locking pin.
- Available with pin diameter of 6mm or 8mm.
- On request also available with another handle (see 6-211).

Materials

- **Pin:** steel, zinc plated
- **Handle:** PA, green
- **Spacer:** PA, black

Remarks

1. Assembled without tools by pressing the locking pin into the handle.
2. Disassembling the door.
3. Door installed.
4. By reducing the material in the cutout, the distance between the two components can be adjusted.



Pin Hinge

	Part Number	Pin diameter	Cutout pin	Cutout housing	Clamping range	Packaging unit
a)	245-9312.00-00000	6 mm	Ø 6.1 + 0.1mm	Ø 9.5 + 0.1 mm	0 - 4 mm	50 pcs.
b)	245-9313.00-00000	8 mm	Ø 8.1 + 0.1mm	Ø 9.5 + 0.1 mm	0 - 4 mm	50 pcs.

Concealed Hinge Pr02 120°

[4-095]



for nested door

Advantages

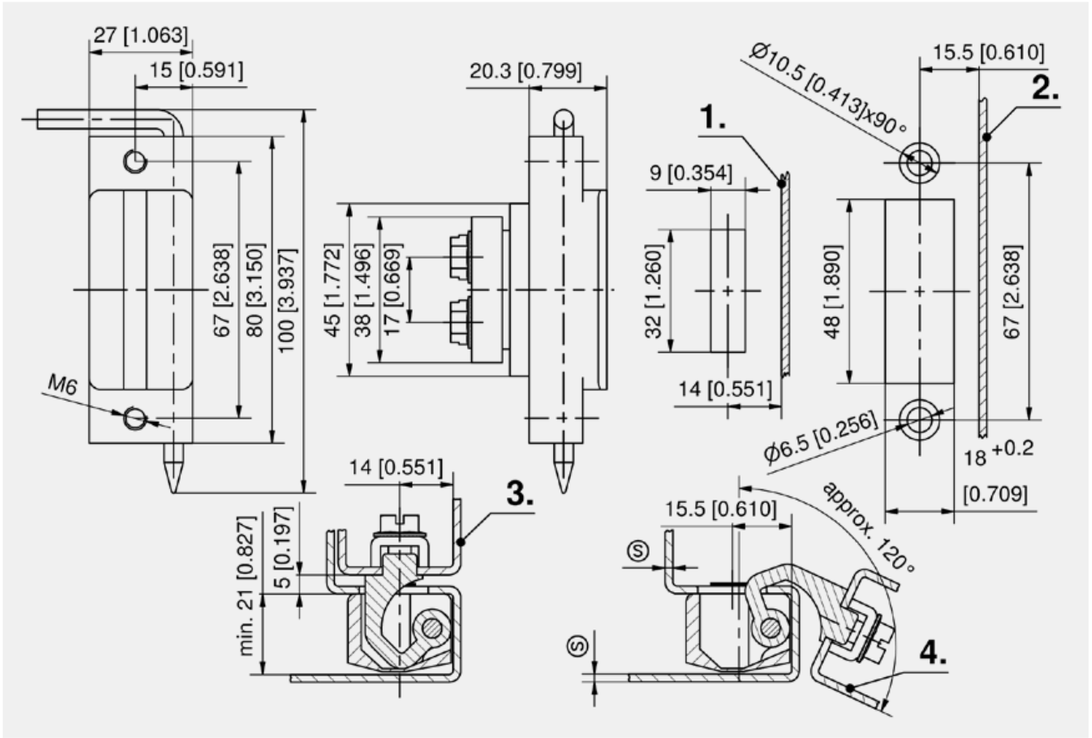
- RH and LH application.
- 120° Opening angle.
- Fitting hardware included.

Materials

- **Frame-part and door-part:** zinc die, zinc plated
- **Fastening clip and pin:** steel, zinc plated

Remarks

1. Cutout door
2. Cutout frame
3. closed
4. opened



Concealed Hinge

Part Number	Material pin	Installation type
222-9301.00-00000	steel, zinc plated	screw-on



Concealed Hinge Pr03 120°

See page 570

Concealed Hinge Pr03 125°

[4-118]



Advantages

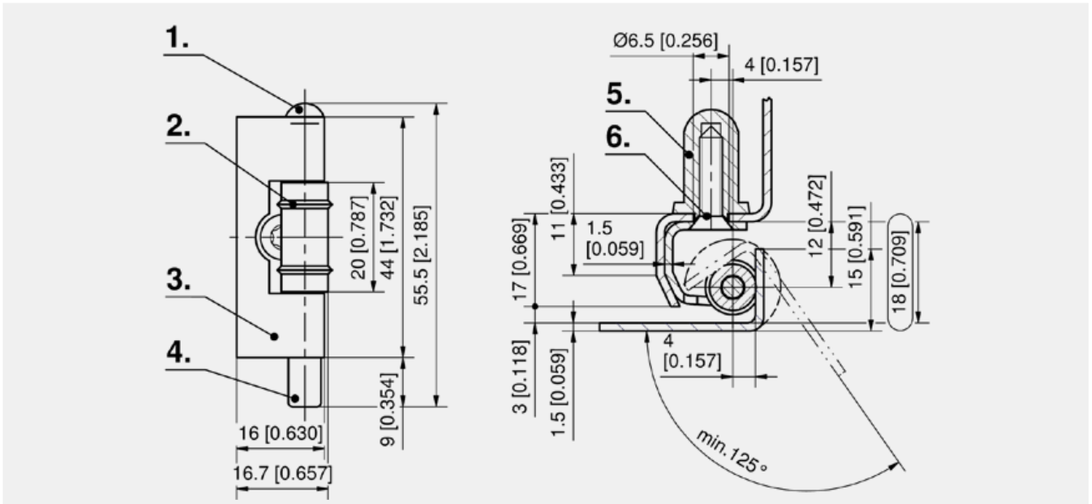
- For surface mounted doors.
- Hinge concealed.
- Door bending from 16 - 18 mm.
- RH / LH application.
- 125° Opening angle.
- Pin secured by bushing.
- Fastening material included.

Materials

- **Frame-part and hinge pin:** steel, zinc plated
- **Weld-on roll:** steel, untreated
- **Fitting block:** PA, black
- **Securing bushing:** PE-LD black
- **Self-tapping screw:** stainless steel

Remarks

1. = Hinge Pin
2. = Weld-on roll
3. = Frame-part
4. = Securing bushing
5. = Fitting block PA
6. = Self-tapping screw



Concealed Hinge

Part Number	Version	Material pin	Installation type
216-9015.00-00000	Screw Philips DIN 7982 ISO 7050 4.2x19mm	steel, zinc plated	screw- / weld-on
216-9035.00-00000	Screw T-20 ISO 14586 Form C 4.2x19mm	steel, zinc plated	screw- / weld-on

Concealed Hinge Pr03 125° Stainless Steel

[7-138]



Advantages

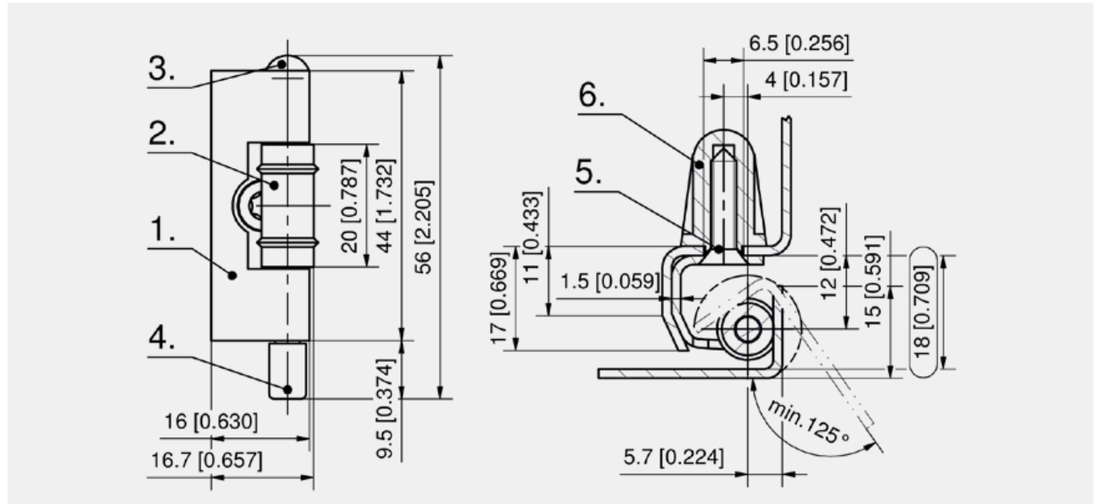
- For surface mounted doors.
- Hinge concealed.
- Door bending from 16 - 18 mm.
- RH / LH application.
- 125° Opening angle.
- Pin secured by bushing.
- Fastening material included.

Materials

- **Frame-part:** stainless steel AISI 304
- **Pin:** stainless steel AISI 301
- **Weld-on roll for spot welding:** stainless steel AISI 303
- **Fitting block:** PA6, black
- **Securing bushing:** PE-LD black
- **Self-tapping screw:** stainless steel

Remarks

1. = Pin
2. = Weld-on roll
3. = Frame-part
4. = Securing bushing
5. = Fitting block PA
6. = Self-tapping screw



Concealed Hinge

Part Number	Version	Material pin	Installation type
216-9113.00-00000	Screw Philips DIN 7982 ISO 7050 4.2x19mm	stainless steel	screw- / weld-on
216-9128.00-00000	Screw T-20 ISO 14586 Form C 4.2x19mm	stainless steel	screw- / weld-on

Concealed Hinge Pr03 120°

[4-119]



Advantages

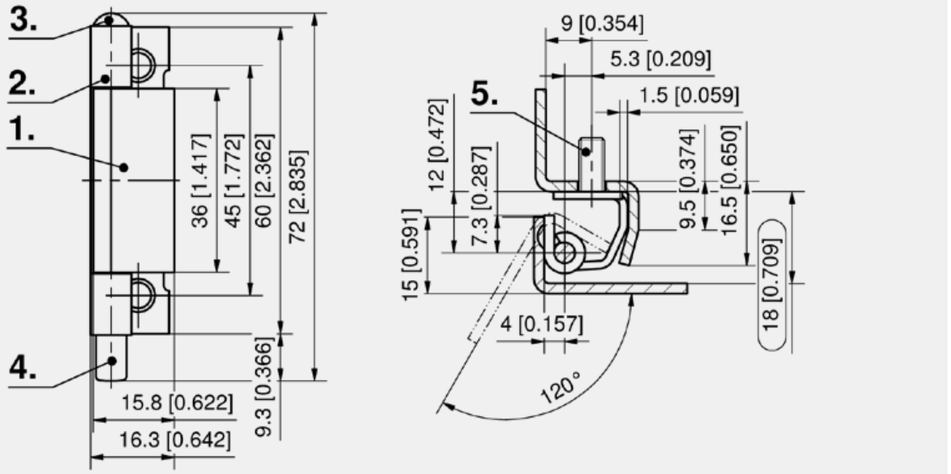
- For surface mounted doors.
- Hinge concealed.
- Bending 18mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by bushing.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld on with prepared welding spots.

Materials

- **Frame-part:** steel, zinc plated
- **Door-part:** steel, untreated
- **Pin:** stainless steel
- **Securing bushing:** PE-LD black

Remarks

1. = Frame-part
2. = Door-part
3. = Hinge pin
4. = Securing bushing
5. = Threaded Stud M5 x 12



Concealed Hinge

Part Number	Material pin	Installation type
216-9032.00-00000	stainless steel	screw- / weld-on

Concealed Hinge Pr03 120° Stainless Steel

[7-139]



Advantages

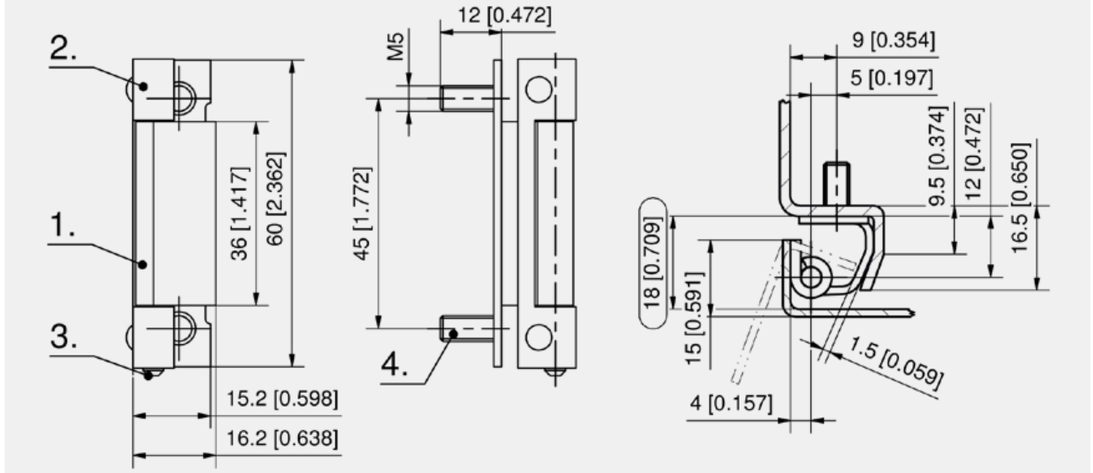
- For surface mounted doors.
- Hinge concealed.
- Bending 18mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by bushing.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld on with prepared welding spots.

Materials

- **Frame-part and door-part:** stainless steel AISI 304
- **Knurled pin:** stainless steel AISI 303
- **Stud:** stainless steel AISI 410

Remarks

1. Frame-part
2. Door-part with weld projections ISO 8167-P5
3. Pin
4. Threaded stud M5 x 12



Concealed Hinge

Part Number	Material pin	Installation type
216-9033.00-00000	stainless steel	screw- / weld-on

Concealed Hinge Pr03 120°

[4-120]



Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part weld-on or screw-on.

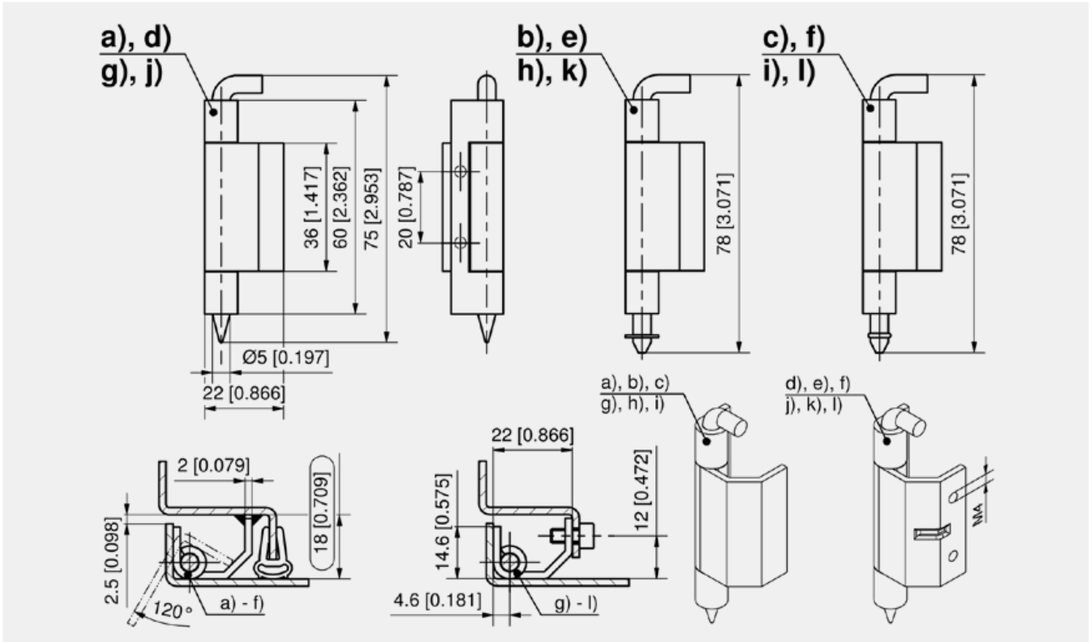
Materials

a), b), c), g), h) and i)

- **Frame-part and door-part:** steel, untreated

d), e), f), j), k) and l)

- **Frame-part:** steel, zinc plated
- **Door-part:** steel, untreated
- **Pins:** steel, zinc plated
- **O-ring:** NBR
- **Retaining ring:** steel, zinc plated



Concealed Hinge

	Part Number	Version	Pin version	Installation type frame-part
a)	216-9001.00-00000		without groove	weld-on
b)	216-9009.00-00000		with groove incl.retaining ring	weld-on
c)	216-9009.00-00001		with groove incl. o-ring	weld-on
d)	216-9020.00-00000	reinforced	without groove	weld-on
e)	216-9018.00-00000	reinforced	with groove incl.retaining ring	weld-on
f)	216-9018.00-00001	reinforced	with groove incl. o-ring	weld-on
g)	216-9002.00-00000		without groove	screw-on
h)	216-9010.00-00000		with groove incl.retaining ring	screw-on
i)	216-9010.00-00001		with groove incl. o-ring	screw-on
j)	216-9021.00-00000	reinforced	without groove	screw-on
k)	216-9019.00-00000	reinforced	with groove incl.retaining ring	screw-on
l)	216-9019.00-00001	reinforced	with groove incl. o-ring	screw-on

Concealed Hinge Pr03 120° Stainless Steel

[7-140]

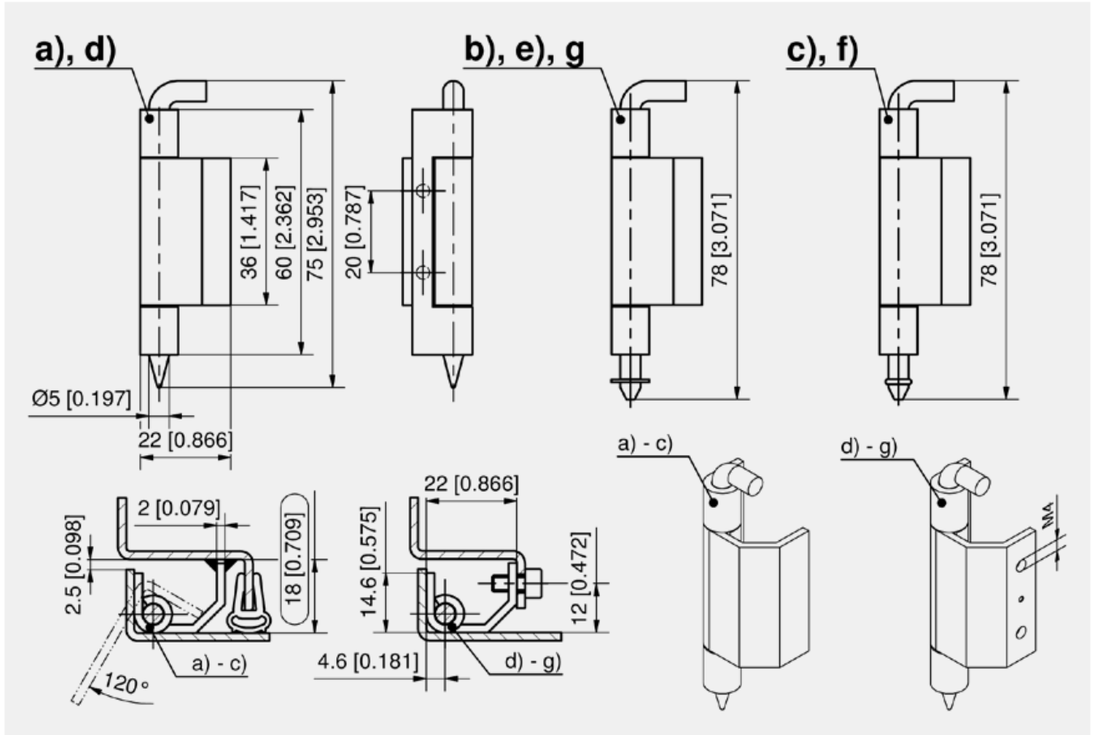


Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part weld-on or screw-on.

Materials

- **Hinge parts:** stainless steel AISI 304 or AISI 316L
- **Pins:** stainless steel AISI 303 or 316L



Concealed Hinge

	Part Number	Material hinge-part	Material pin	Pin version	Installation type
a)	216-9101.00-00000	stainless steel AISI 304	stainless steel AISI 303	without groove	weld-on
b)	216-9109.00-00000	stainless steel AISI 304	stainless steel AISI 303	with groove incl.retaining ring	weld-on
c)	216-9109.00-00001	stainless steel AISI 304	stainless steel AISI 303	with groove incl. o-ring	weld-on
d)	216-9102.00-00000	stainless steel AISI 304	stainless steel AISI 303	without groove	screw- / weld-on
e)	216-9110.00-00000	stainless steel AISI 304	stainless steel AISI 303	with groove incl.retaining ring	screw- / weld-on
f)	216-9110.00-00001	stainless steel AISI 304	stainless steel AISI 303	with groove incl. o-ring	screw- / weld-on
f)	216-9121.00-00001	stainless steel AISI 316L	stainless steel AISI 316L	with groove incl. o-ring	screw- / weld-on
g)	216-9121.00-00002	stainless steel AISI 316L	stainless steel AISI 316L	with groove incl.retaining ring	screw- / weld-on

Concealed Hinge Pr03 120°

[4-122]

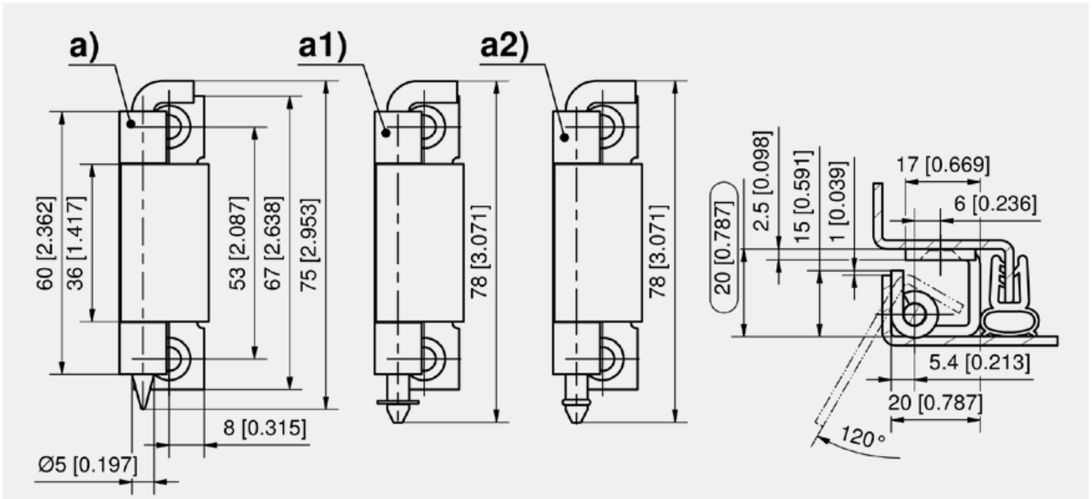


Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 18mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with countersunk screws M5.

Materials

- **Frame-part:** steel, zinc plated
- **Door-part:** steel, untreated
- **Pin:** steel, zinc plated
- **O-Ring:** NBR



Concealed Hinge

	Part Number	Pin version	Installation type
a)	216-9005.00-00000	without groove	screw- / weld-on
a1)	216-9022.00-00000	with groove incl.retaining ring	screw- / weld-on
a2)	216-9022.00-00001	with groove incl. o-ring	screw- / weld-on

Concealed Hinge Pr03 120° Stainless Steel

[7-145]



Advantages

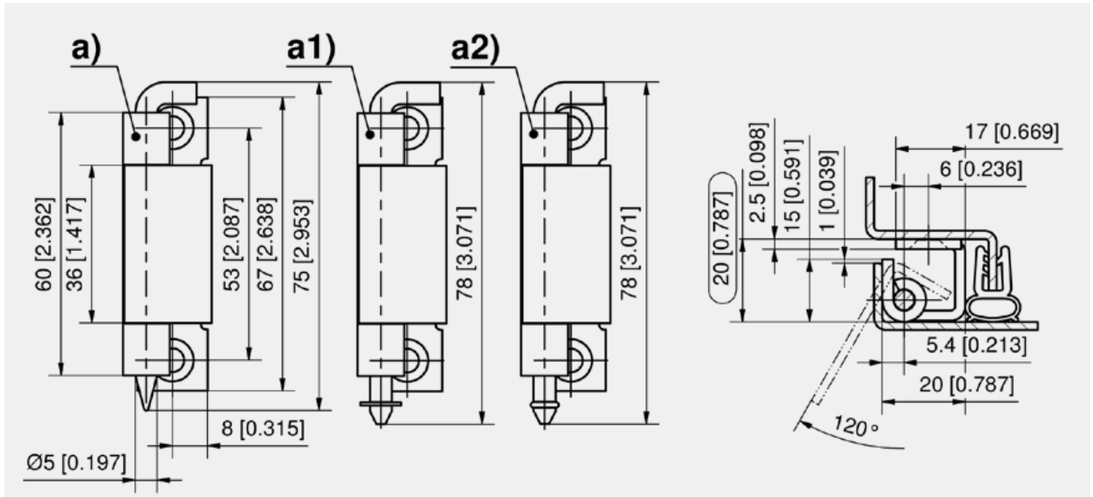
- For surface mounted doors.
- Hinge concealed.
- Door bending 18mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with countersunk screws M5.

Materials

- **Hinge-parts and pin:** stainless steel AISI 304

a2)

- **O-ring:** NBR



Concealed Hinge

	Part Number	Material pin	Pin version	Installation type
a)	216-9115.00-00000	stainless steel	without groove	screw-on
a1)	216-9116.00-00000	stainless steel	with groove incl.retaining ring	screw-on
a2)	216-9116.00-00001	stainless steel	with groove incl. o-ring	screw-on

Concealed Hinge Pr03 120°

[4-124]



Advantages

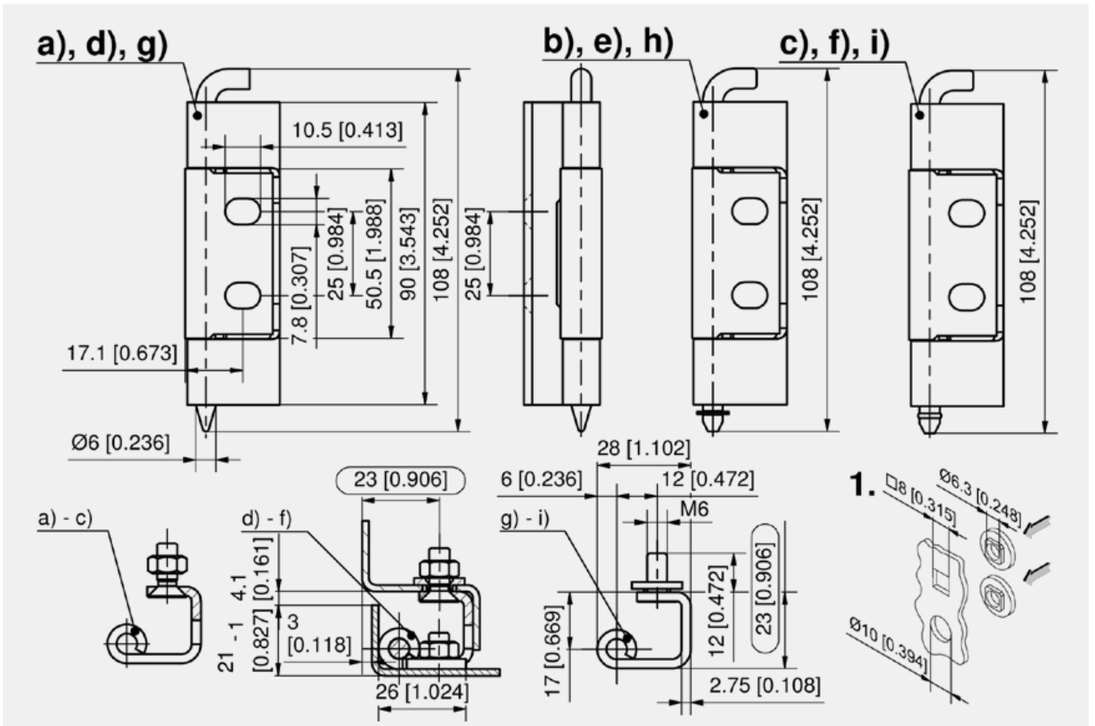
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part weld-on.

Materials

- **Frame-part, pin and fastening washer:** steel, zinc plated
- **Door-part:** steel, untreated

Remarks

1. = Installation instruction for fastening washer



Concealed Hinge, frame-part steel, zinc plated, door-part steel, untreated

	Part Number	Frame-part	cutout in frame	Pin version
a)	243-9103.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9104.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl.retaining ring
c)	243-9104.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9101.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9102.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl.retaining ring
f)	243-9102.00-00001	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9109.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9110.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl.retaining ring
i)	243-9110.00-00001	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring

Concealed Hinge Pr03 120°

[4-124.01]



Advantages

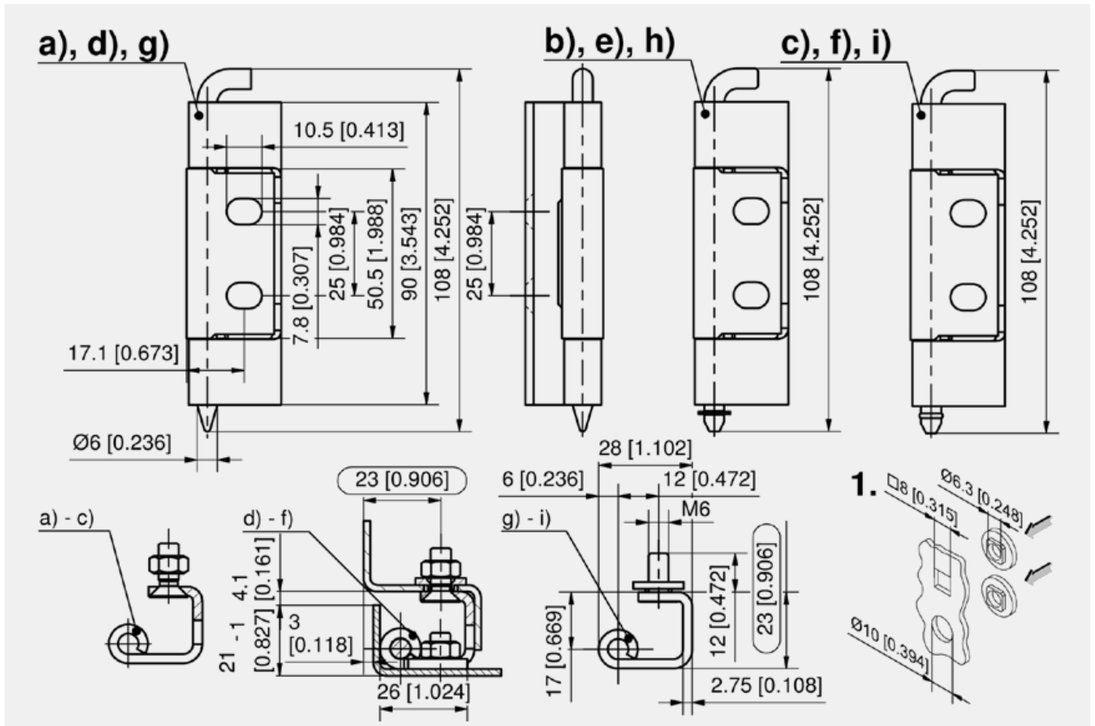
- For surface mounted doors.
- Hinge concealed.
- Door bending 23mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on.

Materials

- **Frame-part, door-part, pin and fastening washer:** steel, zinc plated

Remarks

1. = Installation instruction for fastening washer

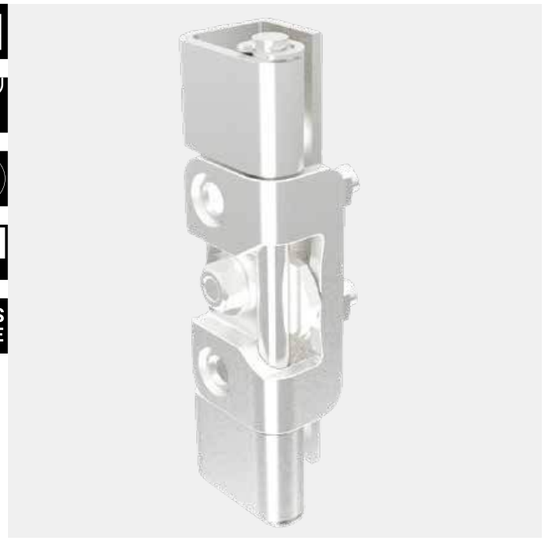


Concealed Hinge, frame- and door-part, steel zinc plated

	Part Number	Frame-part	cutout in frame	Pin version
a)	243-9107.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9108.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl.retaining ring
c)	243-9108.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9105.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9106.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl.retaining ring
f)	243-9106.00-00001	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9111.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9112.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl.retaining ring
i)	243-9112.00-00001	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring

Concealed Hinge Pr03 120°

[4-125]



Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front (see 2. and 3.).

Materials

a), a1) and a2)

- **Door-part and ¼ turn:** zinc die, zinc plated
- **Frame-part:** steel, zinc plated
- **Pin:** steel, zinc plated

b), b1) and b2)

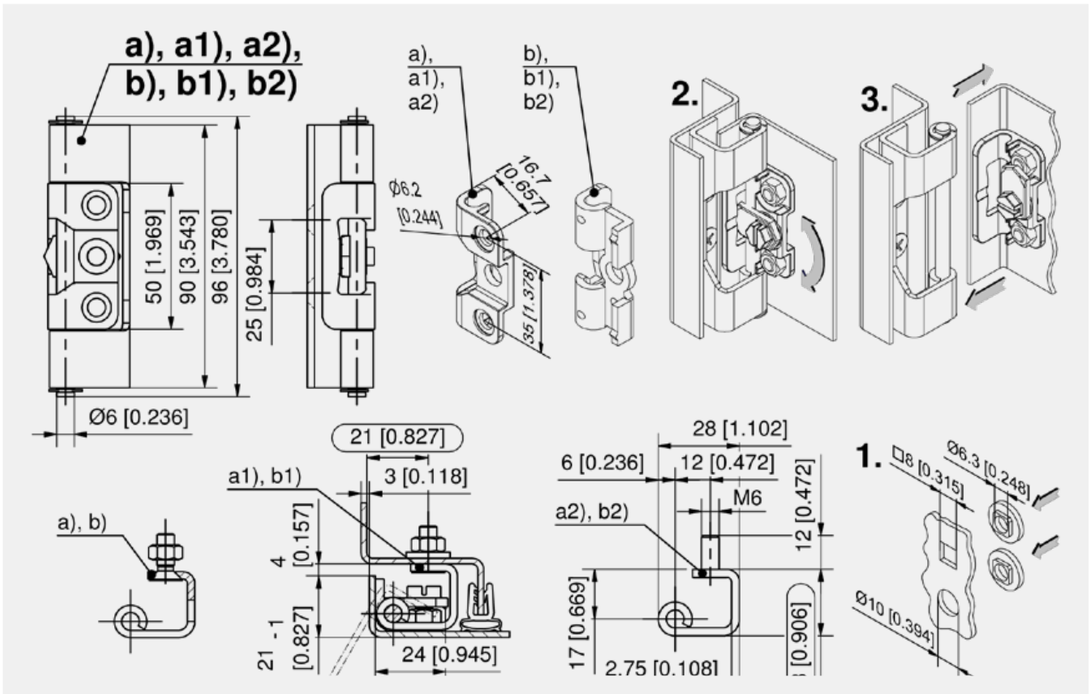
- **All parts:** steel, zinc plated

Remarks

To a2) and b2):

Fastening washer is not used when Ø6.3.

1. = Installation instruction for fastening washer



Concealed Hinge

	Part Number	Frame-part	cutout in frame	Installation type door-part
a)	243-9009.00-00000	with countersunk holes for M6	Ø6.3 or M6	screw-on
a1)	243-9010.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	screw-on
a2)	243-9011.00-00000	with countersunk holes for M6 + fastening washer	Ø6.3, □8, Ø10	screw-on
b)	243-9003.00-00000	with countersunk holes for M6	Ø6.3 or M6	weld-on
b1)	243-9002.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	weld-on
b2)	243-9007.00-00000	with countersunk holes for M6 + fastening washer	Ø6.3, □8, Ø10	weld-on

Accessories
800-1105.00-00000 **Weld stud M6x8**
860-B193.00-00006 **Serrated nut M6**

Concealed Hinge Pr03 120° Stainless Steel

[7-165]



Advantages

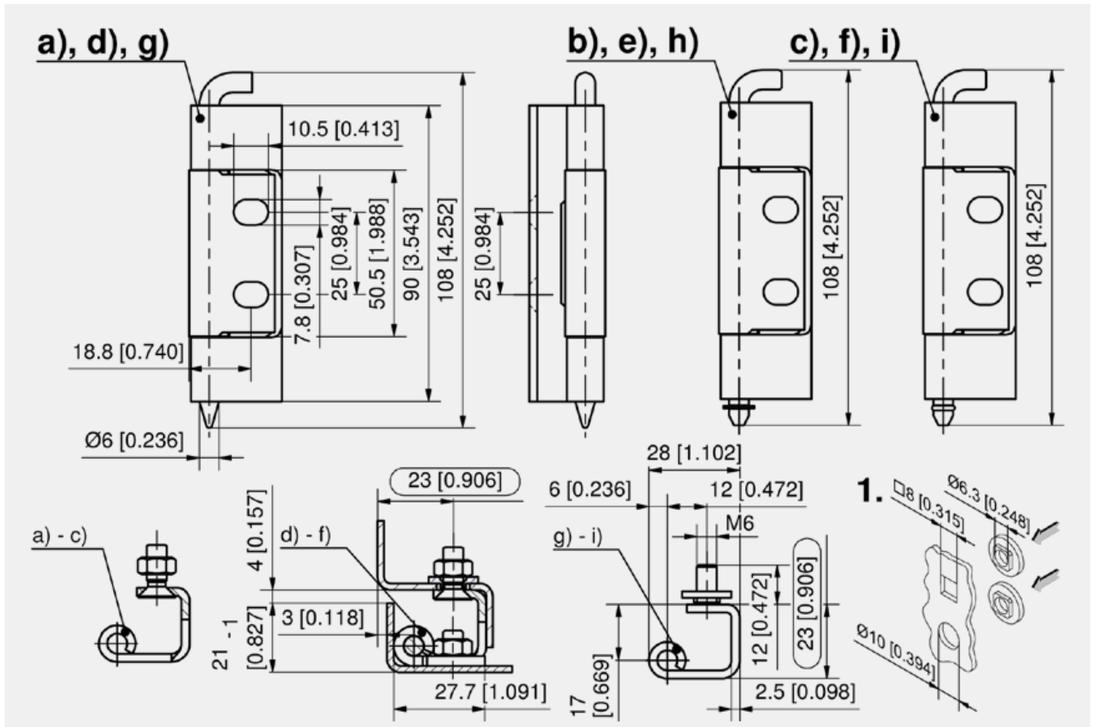
- For surface mounted doors.
- Hinge concealed.
- Door bending 23mm.
- RH / LH application.
- 120° Opening angle.
- Door-part: weld-on or screw-on.

Materials

- **Frame-part, door-part, pin without groove and fastening washer:** stainless steel AISI 304
- **Pin with groove:** stainless steel AISI 303
- **Stud:** stainless steel AISI 420
- **O-ring:** NBR

Remarks

1. = Installation instruction for fastening washer



Concealed Hinge

	Part Number	Frame-part	cutout in frame	Pin version
a)	243-9203.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9204.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl.retaining ring
c)	243-9204.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9201.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9202.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl.retaining ring
f)	243-9202.00-00001	with countersunk holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9208.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9209.00-00000	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl.retaining ring
i)	243-9209.00-00001	with studs for M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring

Concealed Hinge Pr03 120°

[4-124.02]



Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- Opening angle 120°.
- Door-part screw-on.
- Captive pin due to securing clip.

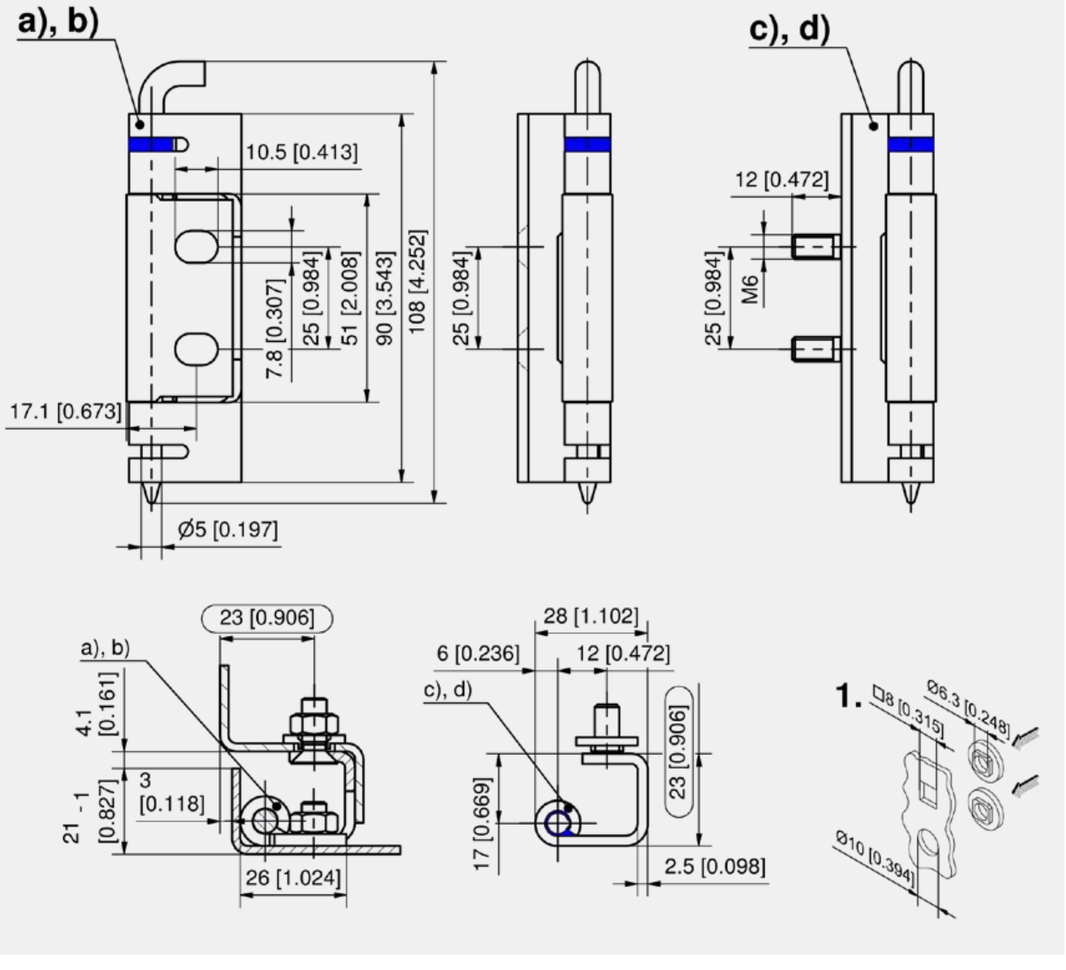
Materials

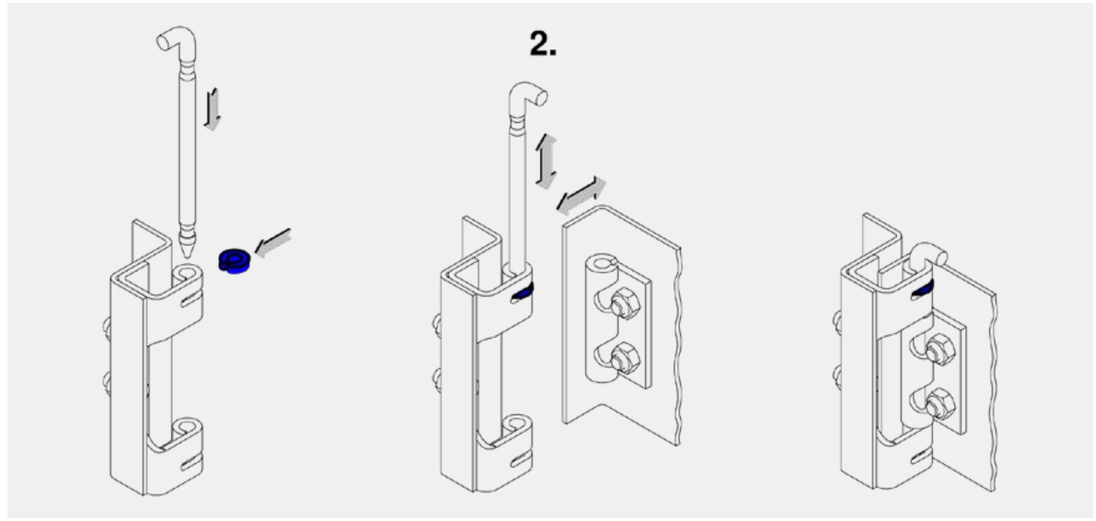
- **Frame-part, door-part, pin and fastening washer:** steel, zinc plated
- **Securing clip:** POM, blue

Remarks

1. Installation instruction for fastening washer

2. Installation of securing clip and mounting of the door-part in the frame-part





Concealed Hinge, frame- and door-part, steel zinc plated

	Part Number	cutout in frame	Frame-part	Pin version
a)	243-9113.00-00000	□8 or Ø10	with countersunk holes for M6 + fastening washer	self-locking
b)	243-9115.00-00000	Ø6.3	with countersunk holes for M6	self-locking
c)	243-9114.00-00000	□8 or Ø10	with studs for M6 + fastening washer	self-locking
d)	243-9116.00-00000	Ø6.3	with studs for M6	self-locking

Concealed Hinge, frame-part steel, zinc plated, door-part steel, untreated

	Part Number	cutout in frame	Frame-part	Pin version
a)	243-9117.00-00000	□8 or Ø10	with countersunk holes for M6 + fastening washer	self-locking
b)	243-9119.00-00000	Ø6.3	with countersunk holes for M6	self-locking
c)	243-9118.00-00000	□8 or Ø10	with studs for M6 + fastening washer	self-locking
d)	243-9120.00-00000	Ø6.3	with studs for M6	self-locking

Concealed Hinge Pr03 120° Stainless Steel [7-165.01]



Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 23mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on and weld-on.
- Captive pin due to securing clip.

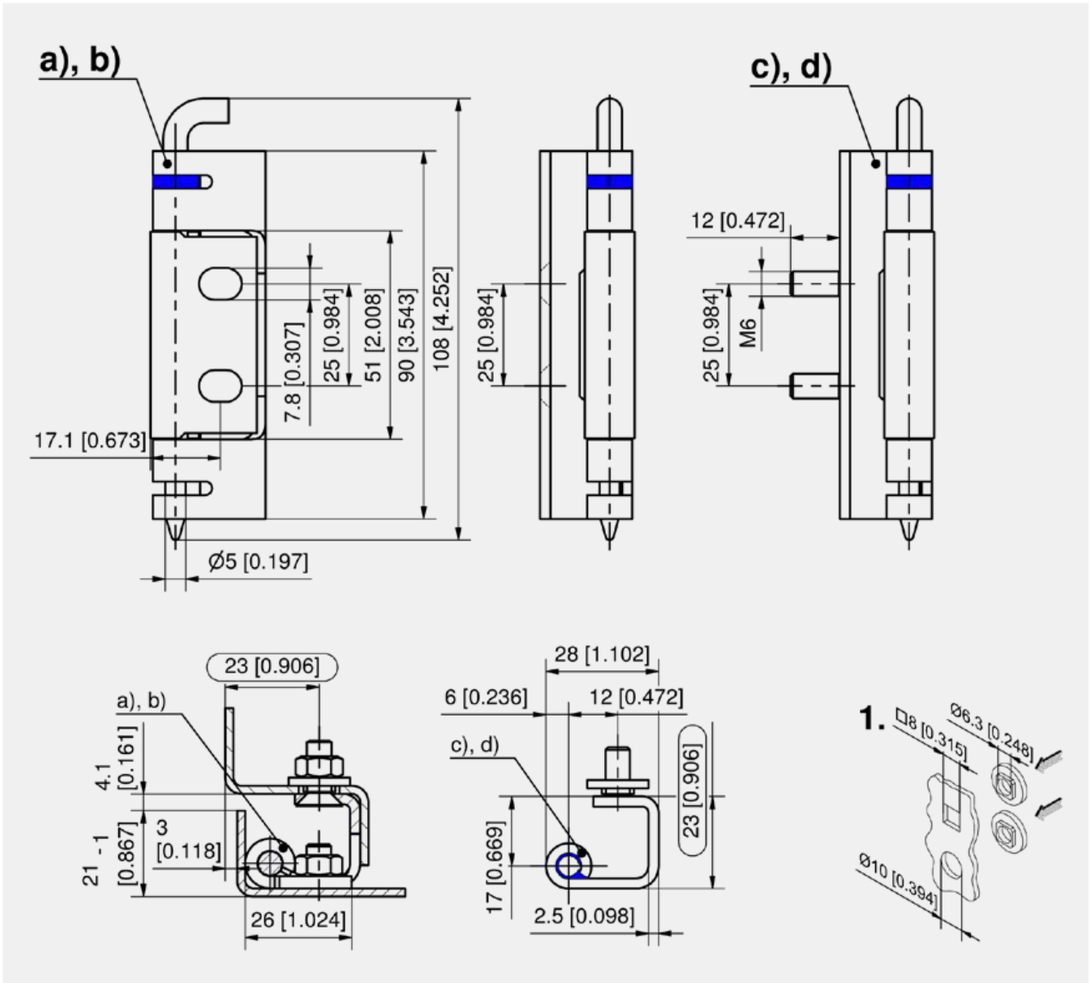
Materials

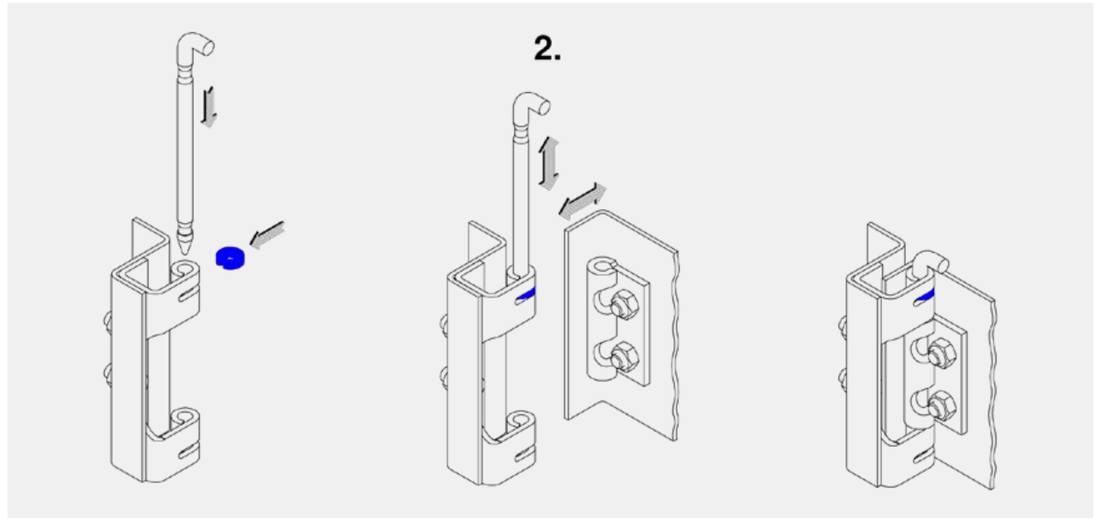
- **Frame-part, door-part, pin and fastening washer:** stainless steel AISI 304
- **Securing clip:** POM, blue

Remarks

1. Installation instruction for fastening washer

2. Installation of securing clip and mounting of the door-part in the frame-part





Concealed Hinge

	Part Number	Frame-part	cutout in frame	Pin version
a)	243-9214.00-00000	with countersunk holes for M6	Ø6.3	self-locking
b)	243-9216.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	self-locking
c)	243-9215.00-00000	with studs for M6	Ø6.3	self-locking
d)	243-9217.00-00000	with studs for M6 + fastening washer	□8 or Ø10	self-locking

DST Concealed Hinge Pr03 130°

[4-124DST]



Advantages

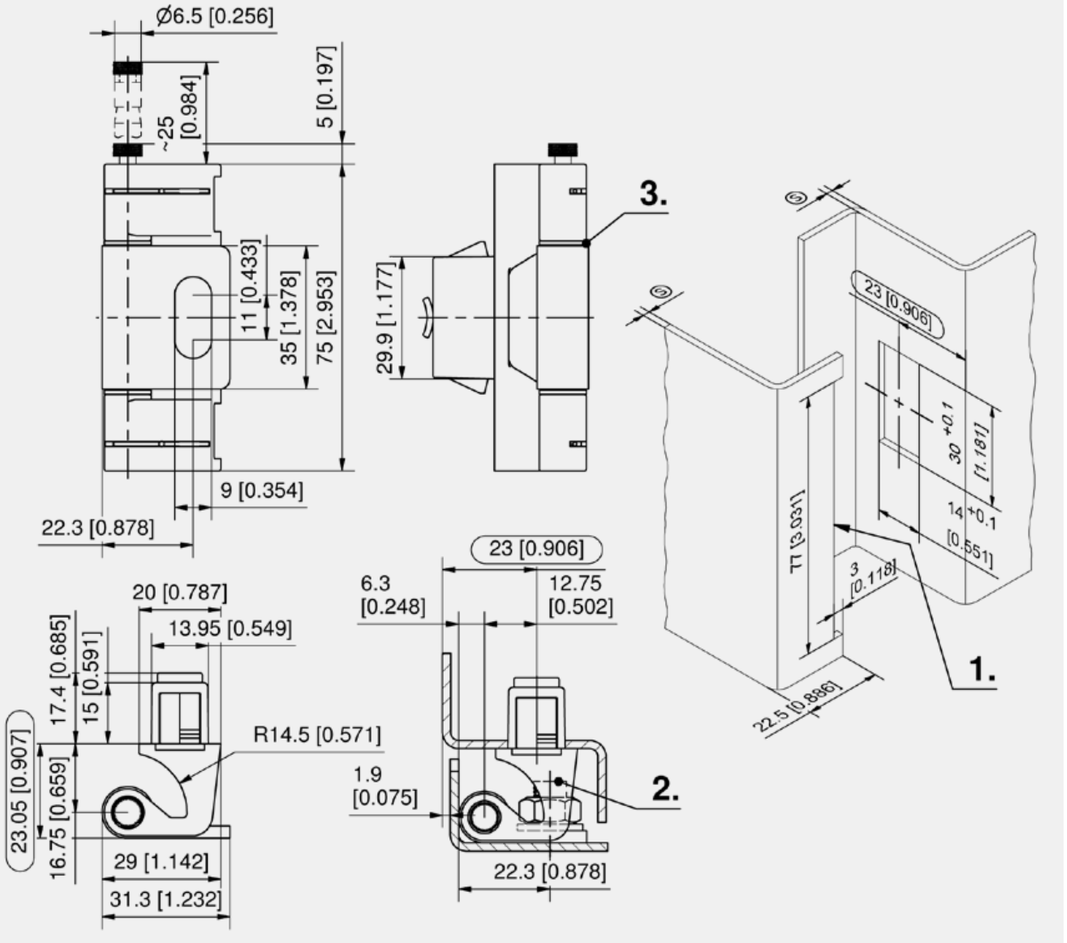
- For surface mounted doors.
- Hinge concealed.
- RH / LH application.
- Bending 23mm.
- 130° Opening angle.
- Tool-less installation of frame part.
- The captive pin is pre-assembled.
- The pin engages to the wire springs at the frame-part and so it is captive.
- By pulling the pin the hinge can be removed.
- Door-part adjustable ±5mm.
- IP65 according to DIN EN 60529 by o-ring, included.

Materials

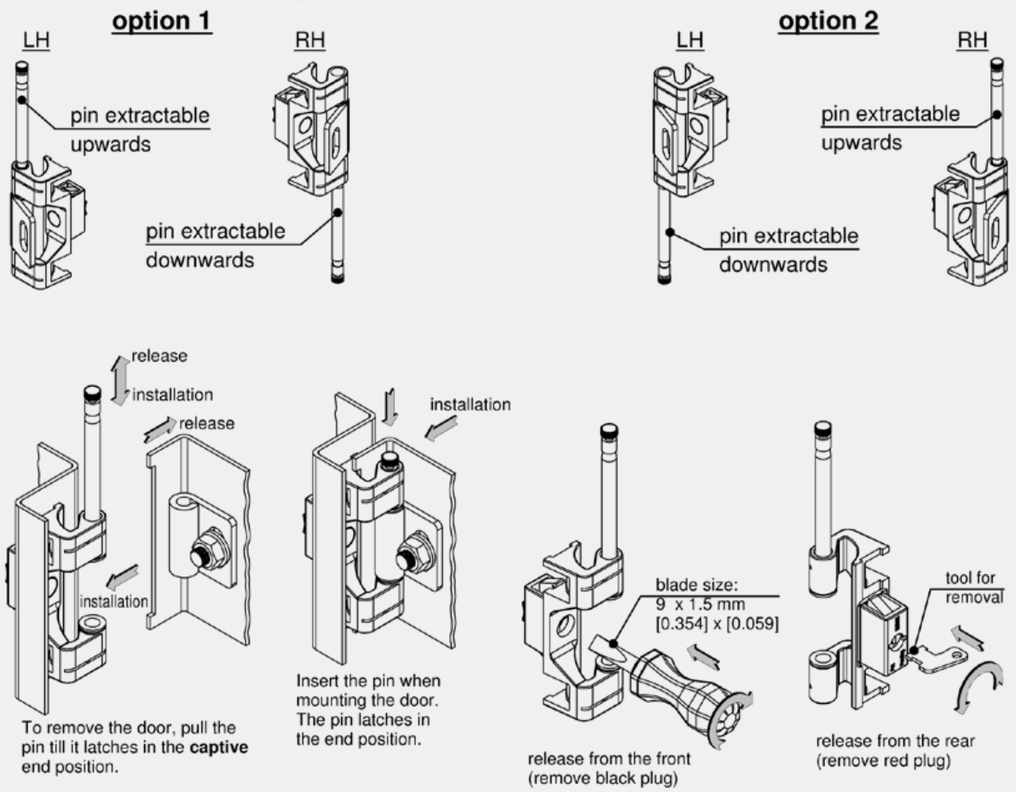
- **Frame-part:** zinc die, untreated
- **Door-part and pin:** steel, zinc plated
- **Snap wedges:** sintered metal, coated
- **O-Ring:** NBR
- **Bearing bushings:** POM

Remarks

1. Door-notch
2. Weld stud M8x15
3. Bearing bushings



Examples of installation situations



Hinge option 1: door LH, pin top, door RH, pin bottom

Part Number	Clamping range	Pin version	Installation type
443-9001.00-10015	1.2 - 1.7 mm	captive	tool-less / screw-on
443-9001.00-10020	1.7 - 2.2 mm	captive	tool-less / screw-on
443-9001.00-10025	2.2 - 2.7 mm	captive	tool-less / screw-on
443-9001.00-10030	2.7 - 3.2 mm	captive	tool-less / screw-on
443-9001.00-10033	3.0 - 3.5 mm	captive	tool-less / screw-on

Hinge option 2: door RH, pin top, door LH, pin bottom

Part Number	Clamping range	Pin version	Installation type
443-9001.00-20015	1.2 - 1.7 mm	captive	tool-less / screw-on
443-9001.00-20020	1.7 - 2.2 mm	captive	tool-less / screw-on
443-9001.00-20025	2.2 - 2.7 mm	captive	tool-less / screw-on
443-9001.00-20030	2.7 - 3.2 mm	captive	tool-less / screw-on
443-9001.00-20033	3.0 - 3.5 mm	captive	tool-less / screw-on

	Accessories
755	292-0701.15-01530 **Reinforcement plate for cutout**
754	292-0402.00-03014 **Cutout-cover**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

DST Concealed Hinge Pr03 130°

[7-164DST]



Stainless Steel

Advantages

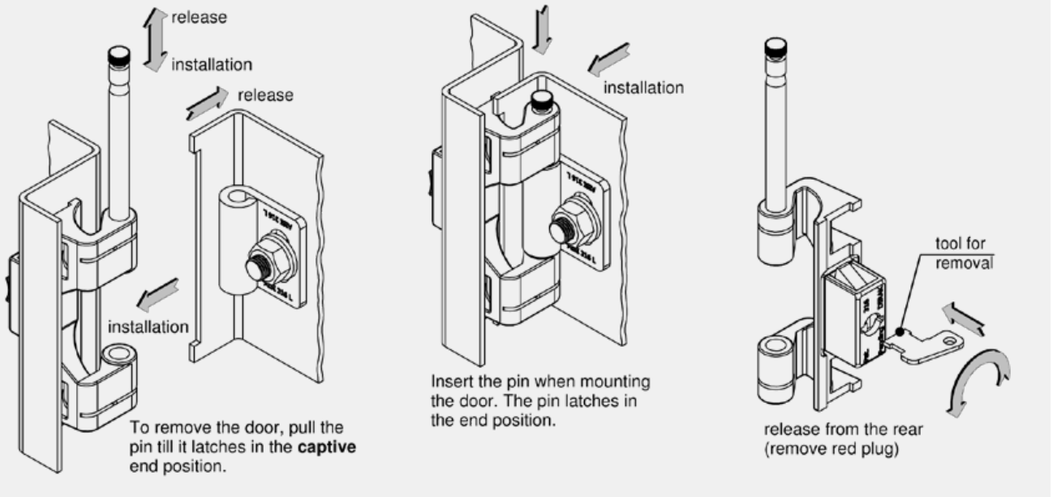
- For surface mounted doors.
- Hinge concealed.
- RH / LH application.
- Bending 23mm.
- 130° Opening angle.
- Tool-less installation of frame part.
- The captive pin is pre-assembled.
- The pin engages to the wire springs at the frame-part and so it is captive.
- By pulling the pin the hinge can be removed.
- Door-part adjustable ±5mm.
- IP65 according to DIN EN 60529 by o-ring, included.

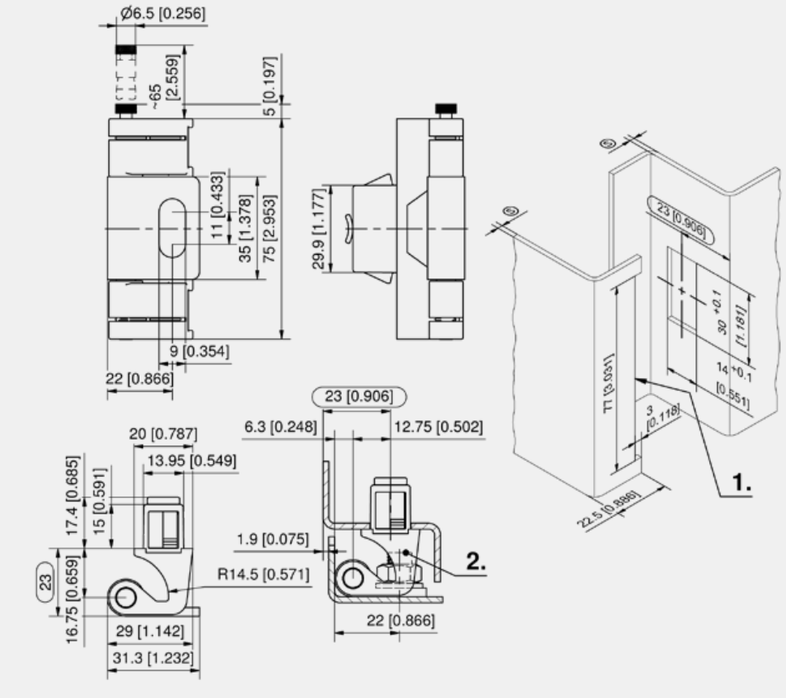
Materials

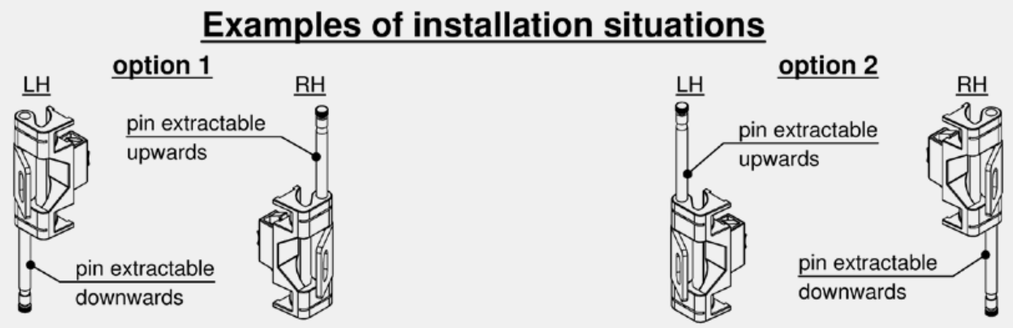
- **Frame-part:** stainless steel AISI 316
- **Door-part:** stainless steel AISI 316
- **Pin:** stainless steel AISI 304
- **Snap wedges:** stainless steel
- **O-Ring:** NBR, black

Remarks

1. door-notch
2. weld-stud M8x15







Hinge option 1: door RH, pin top, door LH, pin bottom

Part Number	Clamping range	Pin version	Installation type
443-9002.00-10015	1.2 - 1.7 mm	captive	tool-less
443-9002.00-10020	1.7 - 2.2 mm	captive	tool-less
443-9002.00-10025	2.2 - 2.7 mm	captive	tool-less
443-9002.00-10030	2.7 - 3.2 mm	captive	tool-less

Hinge option 2: door LH, pin top, door RH, pin bottom

Part Number	Clamping range	Pin version	Installation type
443-9002.00-20015	1.2 - 1.7 mm	captive	tool-less
443-9002.00-20020	1.7 - 2.2 mm	captive	tool-less
443-9002.00-20025	2.2 - 2.7 mm	captive	tool-less
443-9002.00-20030	2.7 - 3.2 mm	captive	tool-less

	Accessories
755	292-0701.15-01530 **Reinforcement plate for cutout**
754	292-0402.00-03014 **Cutout-cover**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

DST Concealed Hinge Pr03 130°

[4-125DST]



Advantages

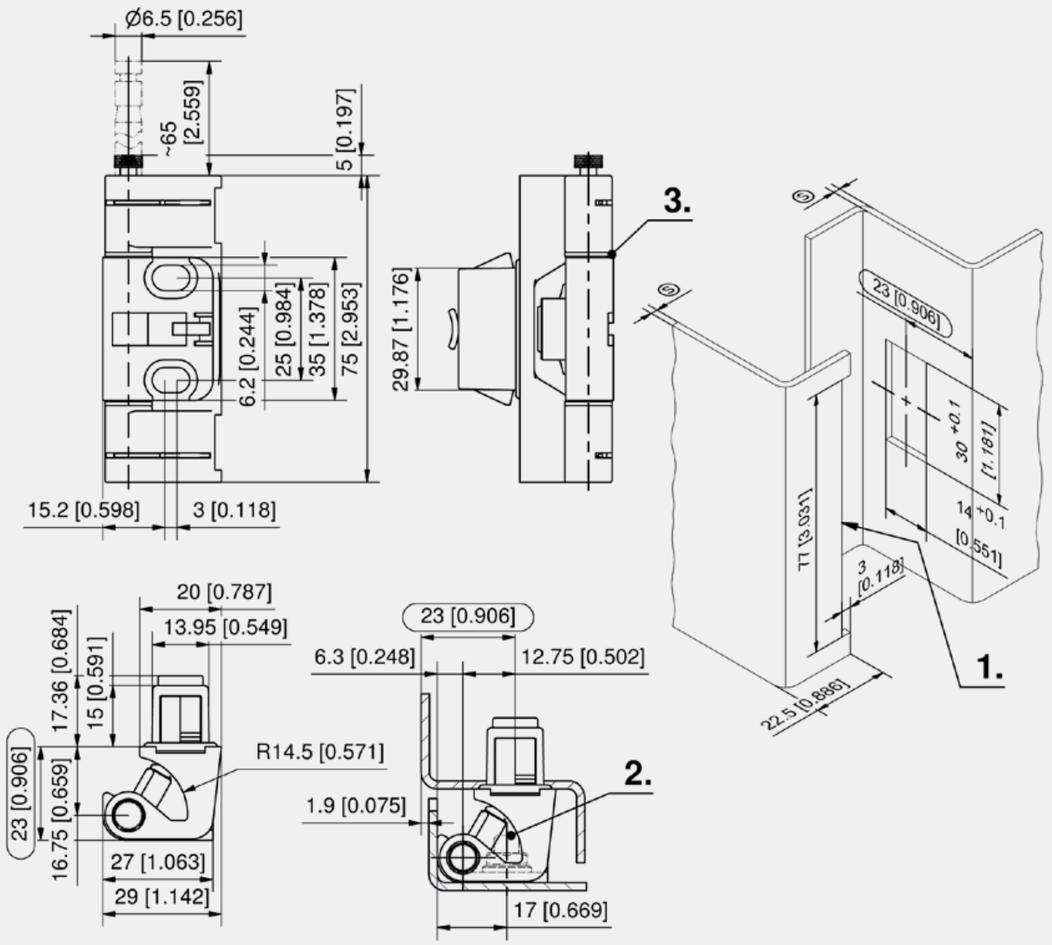
- For surface mounted doors.
- Hinge concealed.
- RH / LH application.
- Bending 23mm.
- 130° Opening angle.
- Tool-less installation of frame part.
- No tools needed. Just push the door onto the pin of the frame-part.
- The captive pin is pre-assembled.
- The pin engages to the wire springs at the frame-part and so it is captive.
- By pulling the pin the hinge can be removed.
- Door-part adjustable ±5mm.
- IP65 according to DIN EN 60529 by o-ring, included.

Materials

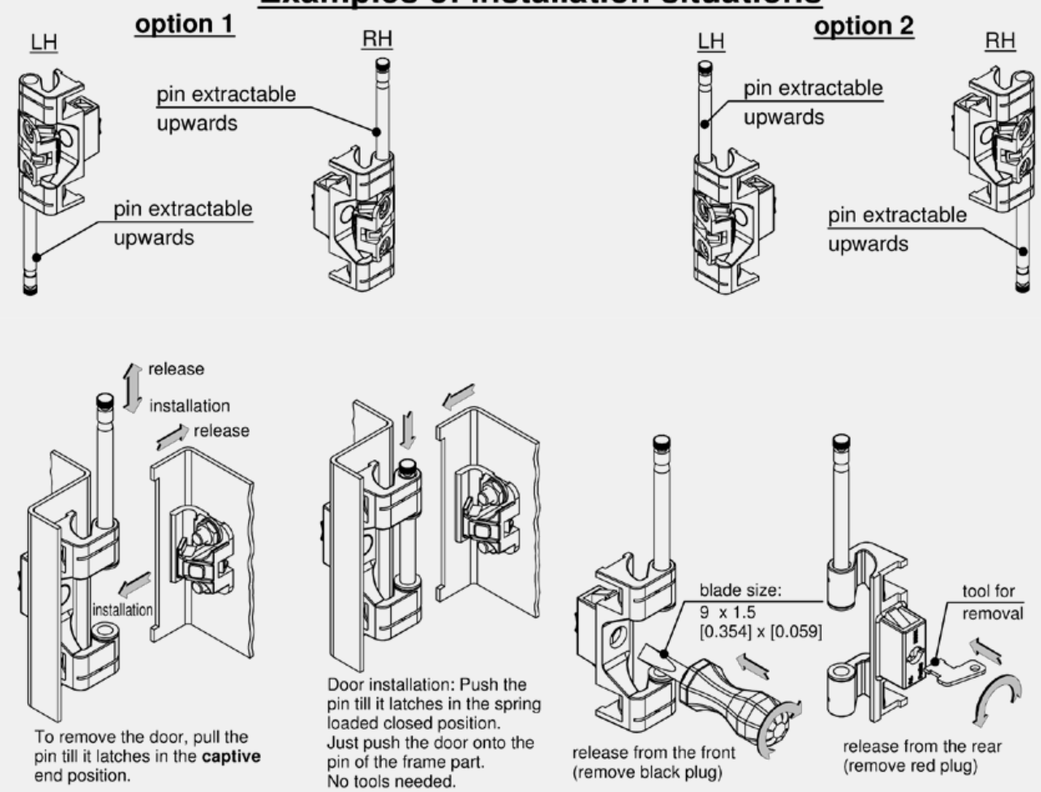
- **Frame-part:** zinc die, untreated
- **Door-part and slider:** zinc die, zinc plated
- **Pin:** steel, zinc plated
- **Snap wedges:** sintered metal, plated
- **O-Ring:** NBR
- **Bearing bushings:** POM

Remarks

1. Door notch
2. Weld stud M6x12
3. Bearing bushings



Examples of installation situations



Hinge option 1: door LH, pin bottom, door RH, pin top

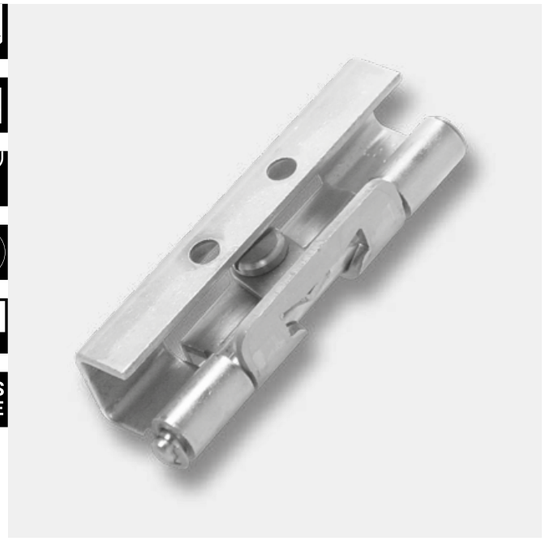
Part Number	Clamping range	Pin version	Installation type
443-9101.00-10015	1.2 - 1.7 mm	captive	tool-less / screw-on
443-9101.00-10020	1.7 - 2.2 mm	captive	tool-less / screw-on
443-9101.00-10025	2.2 - 2.7 mm	captive	tool-less / screw-on
443-9101.00-10030	2.7 - 3.2 mm	captive	tool-less / screw-on
443-9101.00-10033	3.0 - 3.5 mm	captive	tool-less / screw-on

Hinge option 2: door LH, pin top, door RH, pin bottom

Part Number	Clamping range	Pin version	Installation type
443-9101.00-20015	1.2 - 1.7 mm	captive	tool-less / screw-on
443-9101.00-20020	1.7 - 2.2 mm	captive	tool-less / screw-on
443-9101.00-20025	2.2 - 2.7 mm	captive	tool-less / screw-on
443-9101.00-20030	2.7 - 3.2 mm	captive	tool-less / screw-on
443-9101.00-20033	3.0 - 3.5 mm	captive	tool-less / screw-on

Accessories	
755	292-0701.15-01530 **Reinforcement plate for cutout**
754	292-0402.00-03014 **Cutout-cover**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

Concealed Hinge Pr03 120° Stainless Steel

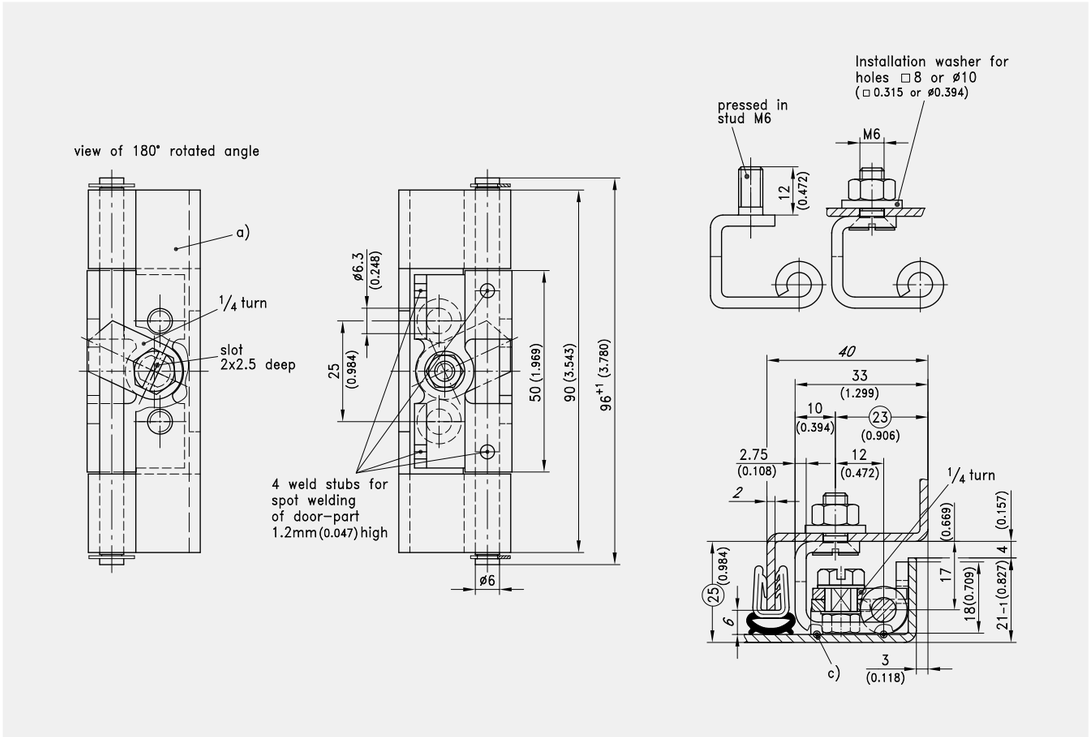


Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front. (see 2. and 3.)

Materials

- **Frame-part, door-part, cross-bar and fastening washer:** stainless steel AISI 304
- **Pin:** stainless steel AISI 303
- **Stud:** stainless steel AISI 420



Concealed Hinge

	Part Number	Frame-part	cutout in frame	Material pin	Installation type
a)	243-9206.00-00000	with countersunk holes for M6	Ø6.3 or M6	stainless steel	screw- / weld-on
a1)	243-9207.00-00000	with fastening washer	□8 or Ø10	stainless steel	screw- / weld-on
a2)	243-9210.00-00000	with studs for M6	Ø6.3, □8, Ø10	stainless steel	screw- / weld-on

Concealed Hinge Pr03 120° Stainless Steel



Advantages

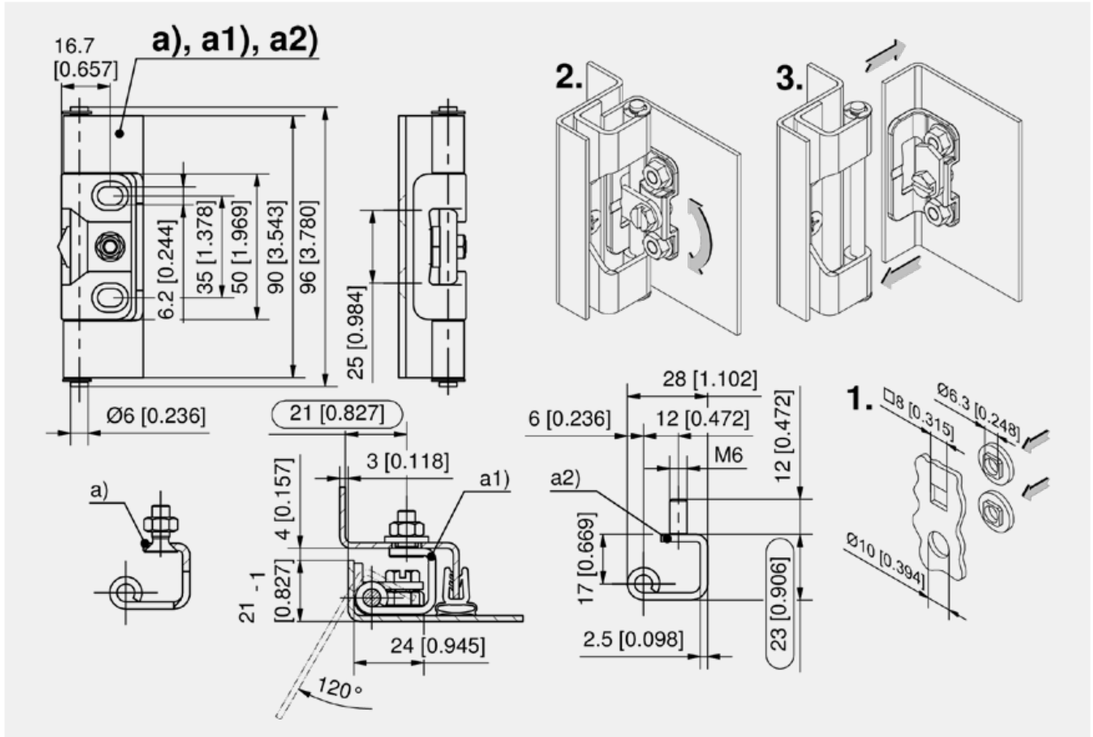
- For surface mounted doors.
- Hinge concealed.
- Door bending 23mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front. (see 2. and 3.)

Materials

- **Frame-part, cross-bar and fastening washer:** stainless steel AISI 304
- **Door-part:** stainless steel AISI 316
- **Pin:** stainless steel AISI 303

Remarks

1. = Installation instruction for fastening washer



Concealed Hinge

	Part Number	Frame-part	cutout in frame	Installation type
a2)	243-9211.00-00000	with studs for M6	Ø6.3, □8, Ø10	screw-on
a)	243-9212.00-00000	with countersunk holes for M6	Ø6.3 or M6	screw-on
a1)	243-9213.00-00000	with countersunk holes for M6 + fastening washer	□8 or Ø10	screw-on

Concealed Hinge Pr03 120°

[4-130]



Advantages

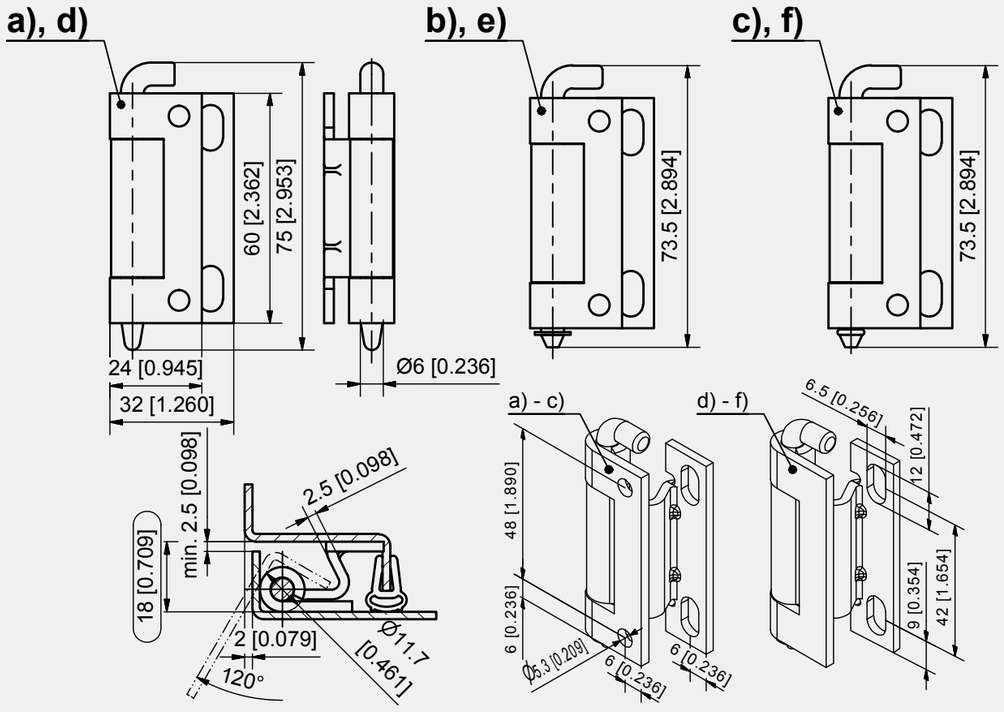
- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.

Materials

- **Frame-part:** steel, zinc plated
- **Door-part:** steel, untreated
- **Pin:** steel, zinc plated

c) and f)

- **O-ring:** NBR



Concealed Hinge

	Part Number	Material pin	Pin version	Installation type door-part
a)	216-9003.00-00000	steel, zinc plated	without groove	screw-on
b)	216-9011.00-00000	steel, zinc plated	with groove incl.retaining ring	screw-on
c)	216-9011.00-00001	steel, zinc plated	with groove incl. o-ring	screw-on
d)	216-9024.00-00000	steel, zinc plated	without groove	weld-on
e)	216-9025.00-00000	steel, zinc plated	with groove incl.retaining ring	weld-on
f)	216-9025.00-00001	steel, zinc plated	with groove incl. o-ring	weld-on

Concealed Hinge Pr03 120° Stainless Steel

[7-150]



Advantages

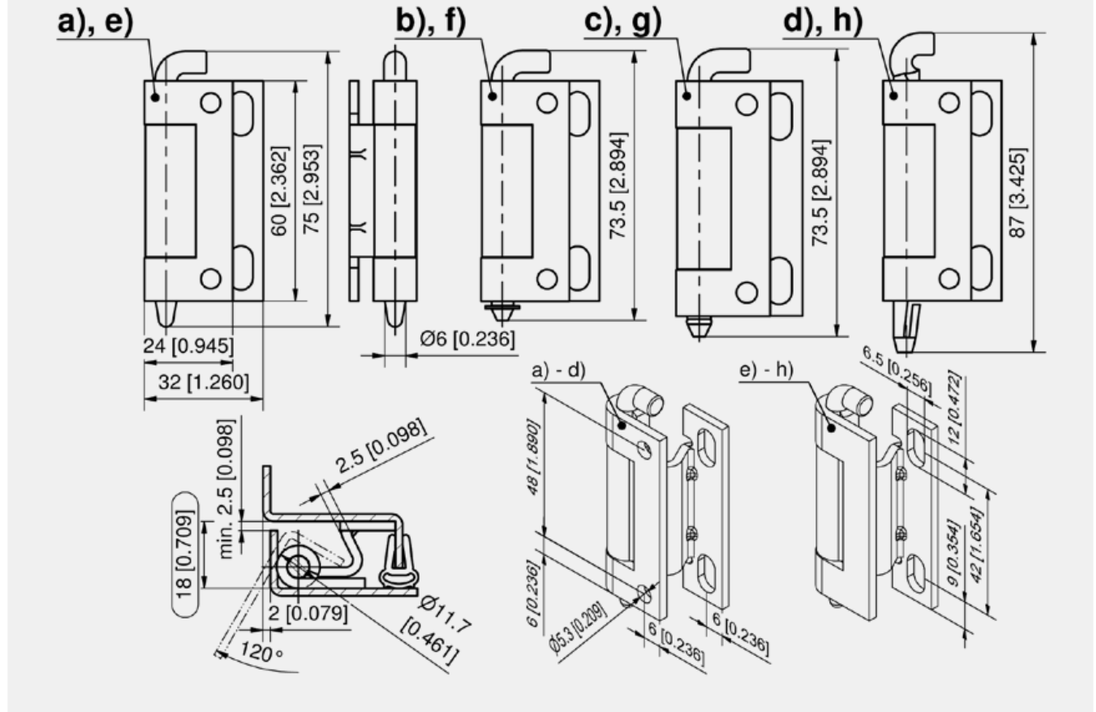
- For surface mounted doors.
- Hinge concealed.
- RH / LH application.
- Door bending 18mm.
- 120° Opening angle.
- Frame-part: screw-on.
- Door-part: weld-on or screw-on.
- The hinge can also be supplied with a self-locking POM pin which can be mounted upside-down for very short enclosures.

Materials

- **Hinge-parts, pin:** stainless steel AISI 304

d) and h)

- **Pin:** POM natural



Concealed Hinge

	Part Number	Material pin	Pin version	Installation type
a)	216-9103.00-00000	stainless steel	without groove	screw-on
b)	216-9111.00-00000	stainless steel	with groove incl.retaining ring	screw-on
c)	216-9111.00-00001	stainless steel	with groove incl. o-ring	screw-on
d)	216-9105.00-00000	POM	without groove	screw-on
e)	216-9120.00-00000	stainless steel	without groove	weld-on
f)	216-9125.00-00000	stainless steel	with groove incl.retaining ring	weld-on
g)	216-9125.00-00001	stainless steel	with groove incl. o-ring	weld-on
h)	216-9123.00-00000	POM	without groove	weld-on

Concealed Hinge Pr03 120°

[4-140]



Advantages

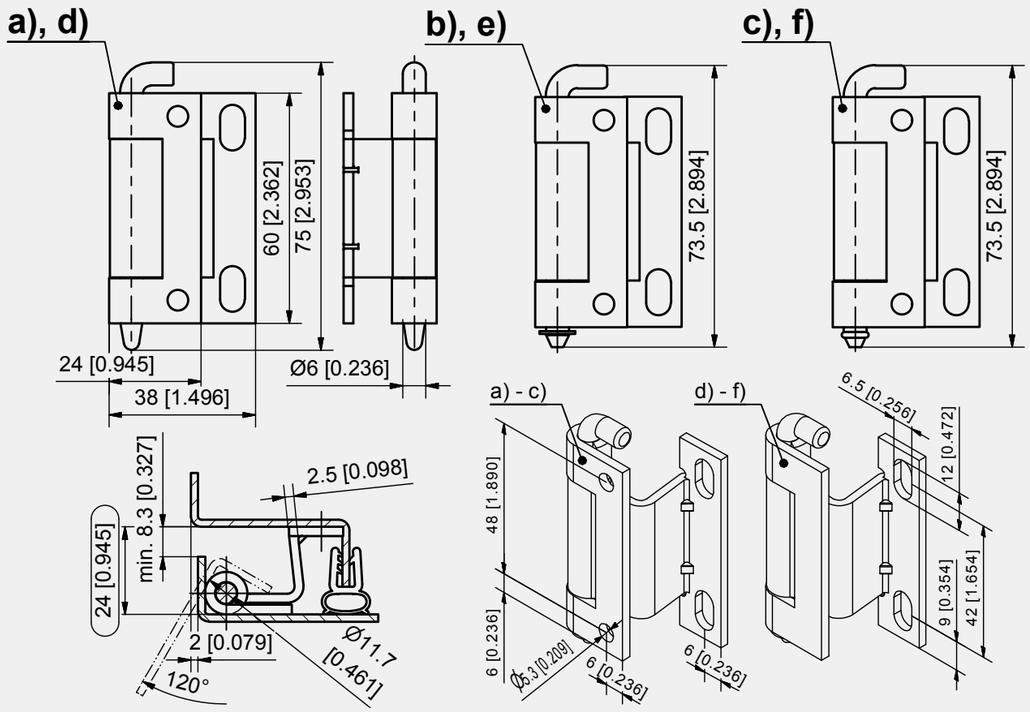
- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.

Materials

- **Frame-part:** steel, zinc plated
- **Door-part:** steel, untreated
- **Pin:** steel, zinc plated

c) and f)

- **O-ring:** NBR

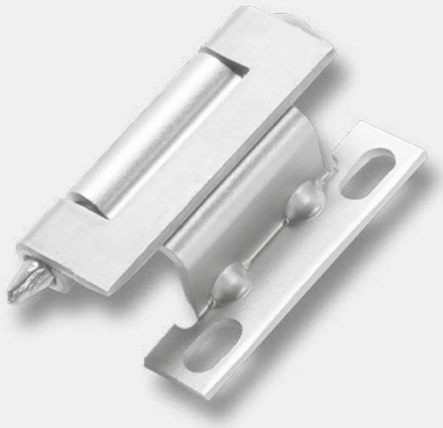


Concealed Hinge

	Part Number	Material pin	Pin version	Installation type door-part
a)	216-9004.00-00000	steel, zinc plated	without groove	screw-on
b)	216-9012.00-00000	steel, zinc plated	with groove incl.retaining ring	screw-on
c)	216-9012.00-00001	steel, zinc plated	with groove incl. o-ring	screw-on
d)	216-9029.00-00000	steel, zinc plated	without groove	weld-on
e)	216-9028.00-00000	steel, zinc plated	with groove incl.retaining ring	weld-on
f)	216-9028.00-00001	steel, zinc plated	with groove incl. o-ring	weld-on

Concealed Hinge Pr03 120° Stainless Steel

[7-160]



Advantages

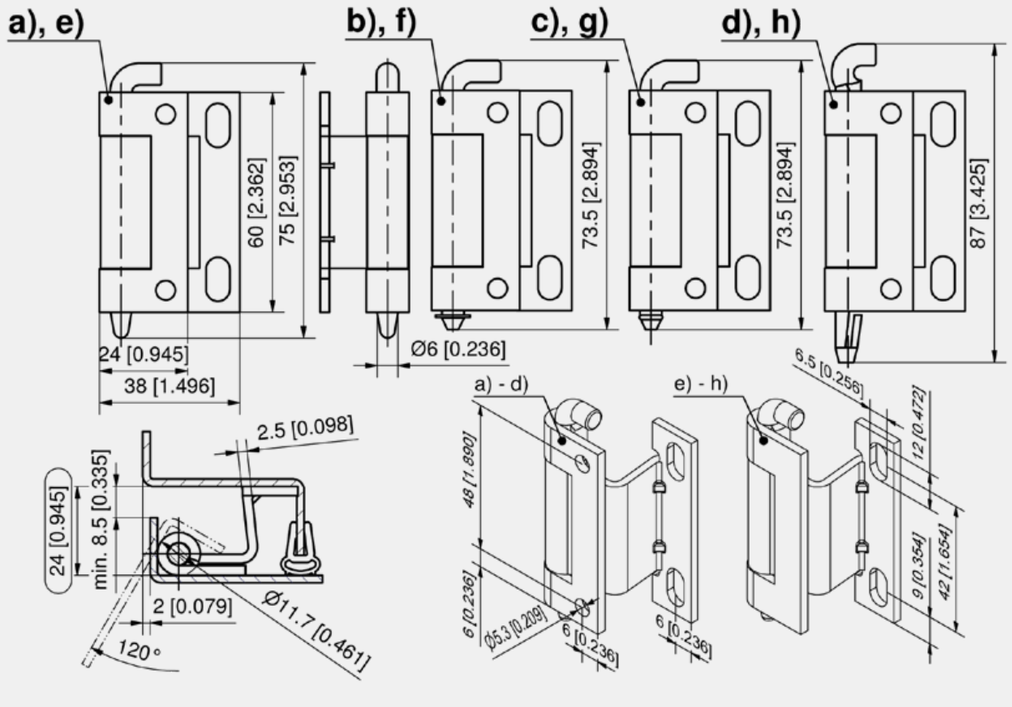
- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part: screw-on.
- Door-part: weld-on or screw-on.
- The hinge can also be supplied with a self-locking POM pin which can be mounted upside-down for very short enclosures.

Materials

- **Hinge-parts and pin:** stainless steel AISI 304

d) and h)

- **Pin:** POM natural



Concealed Hinge

	Part Number	Material pin	Pin version	Installation type
a)	216-9104.00-00000	stainless steel	without groove	screw-on
b)	216-9112.00-00002	stainless steel	with groove incl.retaining ring	screw-on
c)	216-9112.00-00001	stainless steel	with groove incl. o-ring	screw-on
d)	216-9106.00-00000	POM	self-locking	screw-on
e)	216-9122.00-00000	stainless steel	without groove	weld-on
f)	216-9126.00-00000	stainless steel	with groove incl.retaining ring	weld-on
g)	216-9126.00-00001	stainless steel	with groove incl. o-ring	weld-on
h)	216-9124.00-00000	POM	self-locking	weld-on

Concealed Hinge Pr03 120°

[4-135]

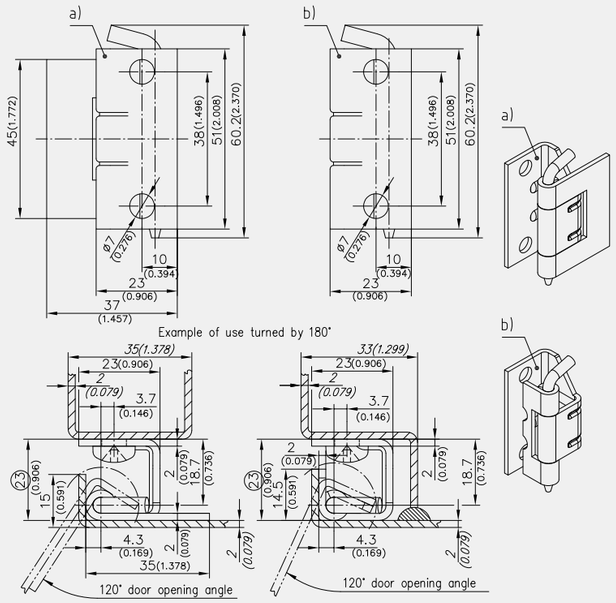


Advantages

- For surface mounted doors.
- Hinge concealed.
- Door bending 23mm.
- RH and LH application.
- 120° Opening angle.
- Two different fastenings on the door:
- 1. Door-part to be weld-on on the door leaf.
- 2. Door-part to be weld-on on the door bending.
- Frame-part: screw-on e.g. cross recessed raised cheese head screw M6 DIN-EN-ISO 7045.

Materials

- **Door-part:** steel, untreated
- **Frame-part:** steel, zinc plated
- **Pin:** steel, zinc plated



Concealed Hinge

	Part Number	Material pin	Installation type
a)	216-9008.00-00000	steel, zinc plated	screw- / weld-on
b)	216-9013.00-00000	steel, zinc plated	screw- / weld-on

Hinges

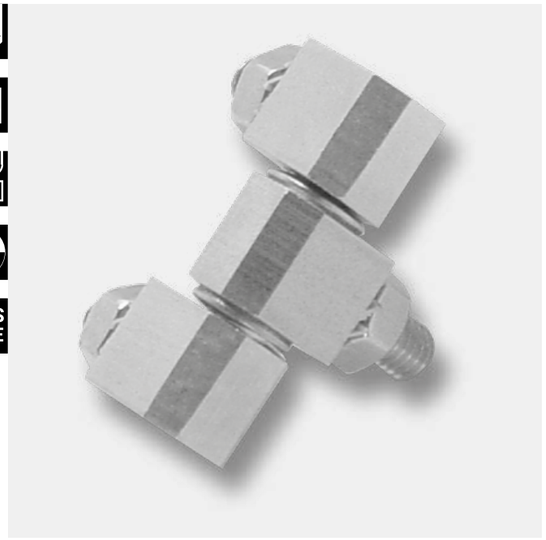


Hinge for Single Cabinet Pr05 180°

See page 630

Corner Hinge Pr04 180° Stainless Steel

[7-110]



Advantages

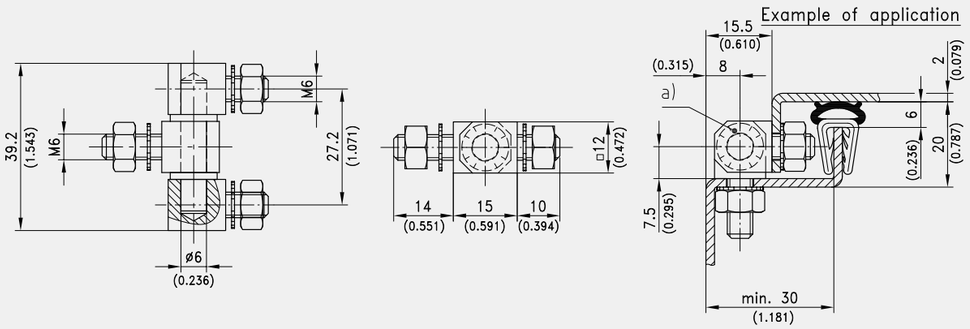
- For surface mounted doors.
- Hinge visible.
- 180° Opening angle.
- Light version.
- Screw-on.

Materials

- **Head- and middle part, pin and washer:** stainless steel AISI 303

Remarks

3 nuts and serrated washers are included.

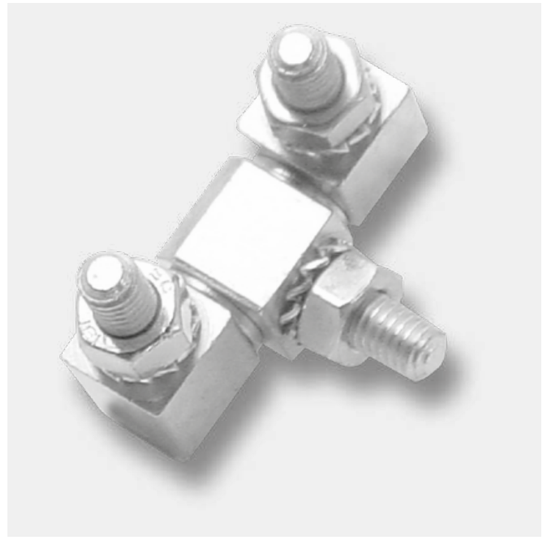


Corner Hinge

	Part Number	Material pin	Pin version	Installation type
a)	219-9002.00-00000	stainless steel	pressed in	screw-on

Corner Hinge Pr04 180°

[4-190]

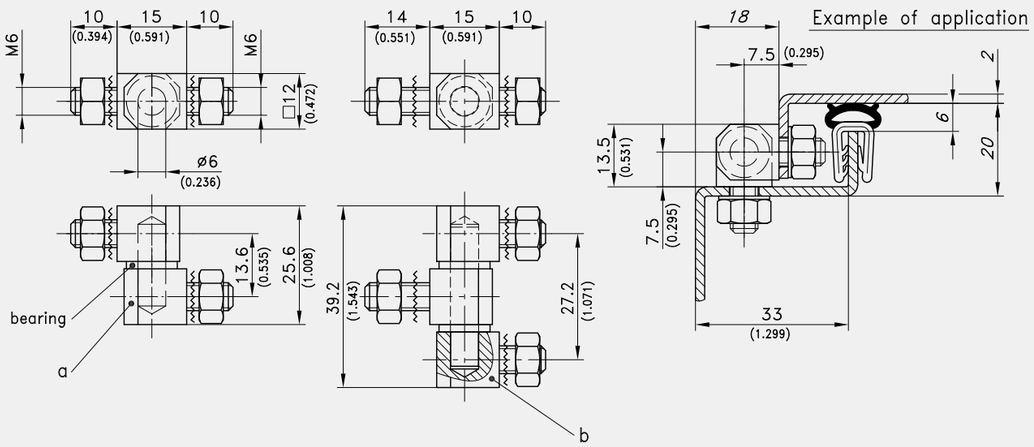


Advantages

- For surface mounted door.
- Hinge visible.
- Version a) lift-off.
- 180° Opening angle.

Materials

- **Hinge:** steel, zinc plated
- **Bearing washer:** brass, nickel plated
- **Nuts and serrated washers:** steel, zinc plated
- **Pin:** steel, nickel plated



Corner Hinge, 2-parts

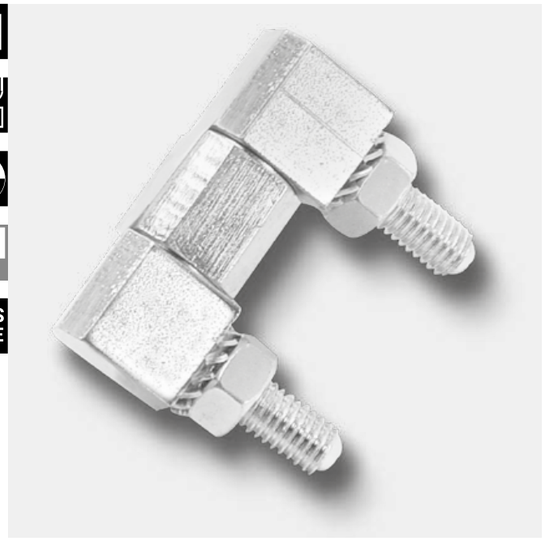
	Part Number	Material pin	Installation type
a)	219-9005.00-00000	steel, nickel plated	screw-on

Corner Hinge, 3-parts

	Part Number	Material pin	Installation type
b)	219-9001.00-00000	steel, nickel plated	screw-on

Corner Hinge Pr04 180°

[4-200]



Advantages

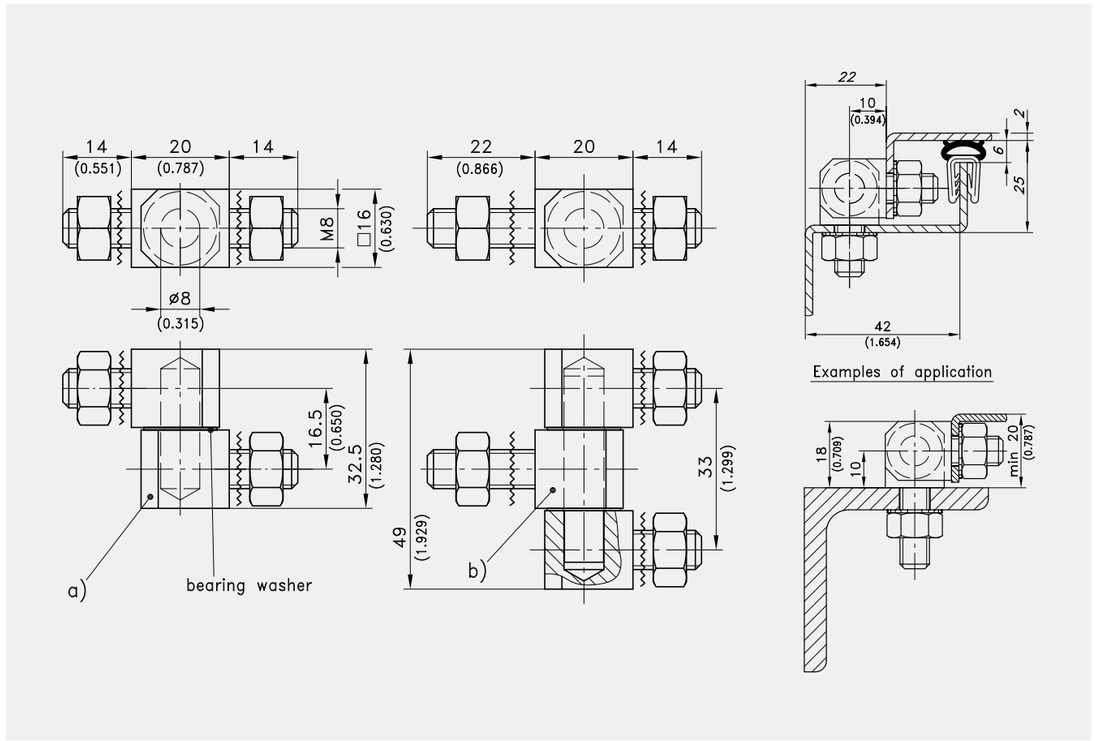
- For surface mounted door.
- Hinge visible.
- Version a) lift-off.
- 180° Opening angle.

Materials

- **Hinge:** steel, zinc plated, brass, untreated
- **Bearing washer:** brass, nickel plated
- **Nut and washer:** steel, zinc plated
- **Pin:** steel, nickel plated

Remarks

Nuts and serrated washers are included



Corner Hinge, 2-parts

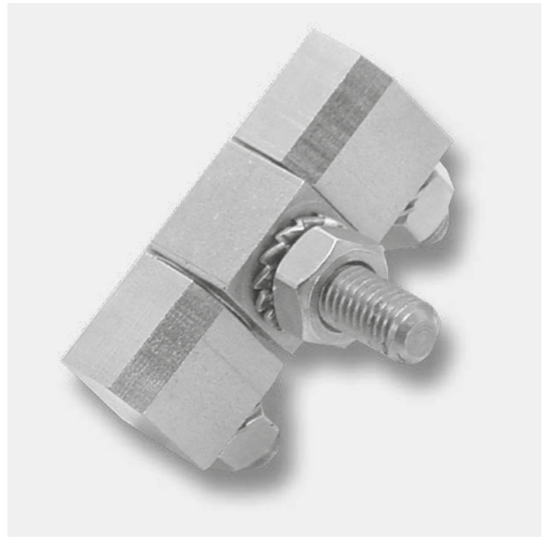
	Part Number	Version	Material pin	Installation type
a)	219-9111.00-00000	steel, zinc plated	steel, nickel plated	screw-on
a)	219-9112.00-00000	brass, untreated	steel, nickel plated	screw-on

Corner Hinge, 3-parts

	Part Number	Version	Material pin	Installation type
b)	219-9101.00-00000	steel, zinc plated	steel, nickel plated	screw-on
b)	219-9106.00-00000	brass, untreated	steel, nickel plated	screw-on

Corner Hinge Pr04 180° Stainless Steel

[7-120]



Advantages

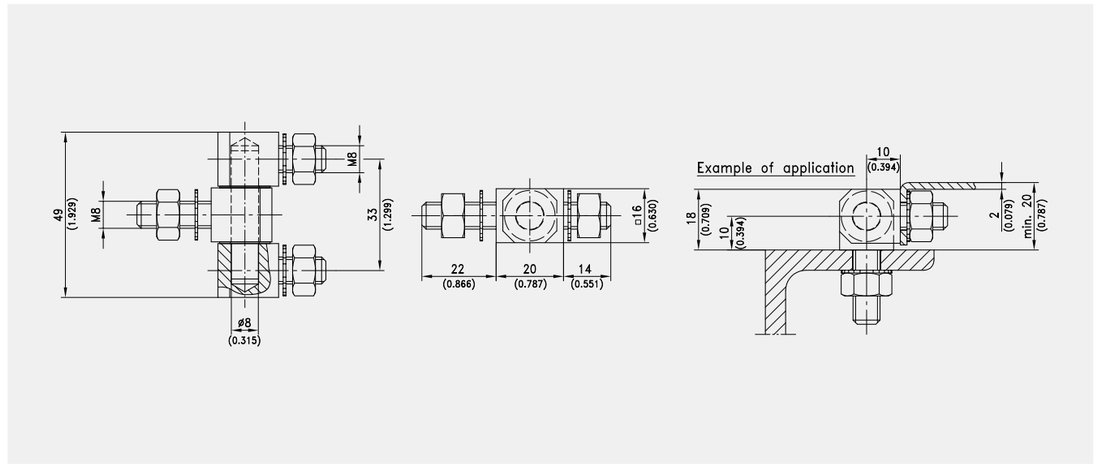
- For surface mounted doors.
- Hinge visible.
- 180° Opening angle.
- Heavy duty version.
- Screw-on.

Materials

- **Head- and middle part, pin and washer:** stainless steel AISI 303

Remarks

3 nuts and serrated washers are included.



Corner Hinge

Part Number	Material pin	Installation type
219-9105.00-00000	stainless steel	screw-on

Corner Hinge Pr04 180° Tempered Steel [4-220]



Advantages

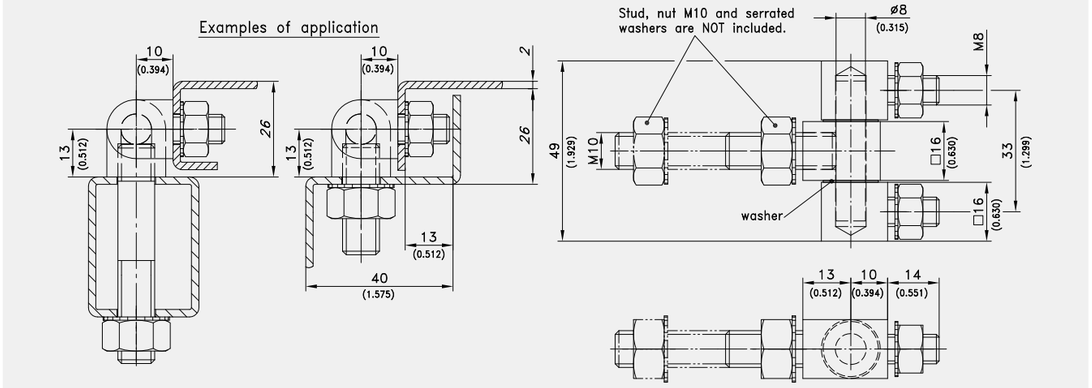
- For surface mounted doors.
- Hinge visible.
- 180° Opening angle.
- Hinge for explosion-tight doors.

Materials

- **Hinge:** tempered steel, zinc plated
- **Washer:** brass, nickel plated
- **Nut and washer:** steel, zinc plated
- **Pin:** steel, nickel plated

Remarks

2 nuts M8 and serrated washers Ø8 are included.



Corner Hinge

Part Number	Material pin	Installation type
219-9201.00-00000	steel, nickel plated	screw-on

Corner Hinge Pr04 180° [4-284]



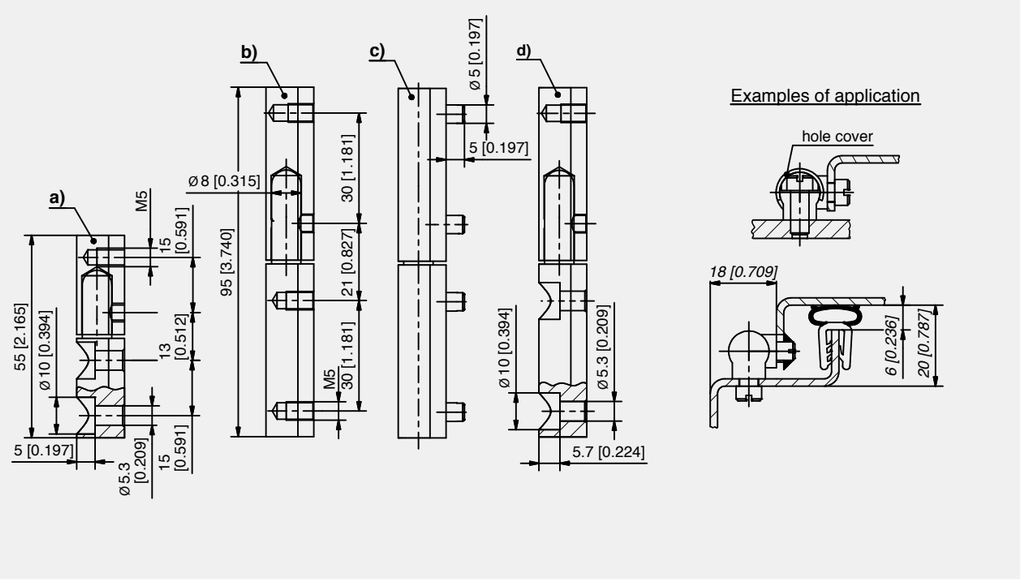
Lift-off, for surface mounted door

Advantages

- 180° Profile Hinge, screw-on or weld-on.
- Door is lift-off.
- We only show the 4 most common versions.
- Other versions on request.
- 180° Opening angle.
- **Attention:** The covers for version a) and d) have extremely sharp edges. **Injury Risk!**

Materials

- **Hinge parts:** steel, zinc plated
- **Covers:** stainless steel AISI 304



Corner Hinge with threaded stubs M5 + drilled holes 5.3mm

	Part Number	Length	Version	Material pin	Pin version	Installation type
a)	242-9001.00-00000	55 mm	2 caps	steel, zinc plated	molded in	screw-on
d)	242-9103.00-00000	95 mm	2 caps	steel, zinc plated	molded in	screw-on

Corner Hinge with threaded stubs M5

	Part Number	Length	Material pin	Pin version	Installation type
b)	242-9101.00-00000	95 mm	steel, zinc plated	molded in	screw-on

Corner Hinge with weld stud

	Part Number	Length	Material pin	Pin version	Installation type
c)	242-9102.00-00000	95 mm	steel, zinc plated	molded in	weld-on

Corner Hinge Pr04 180°

[4-282]



Advantages

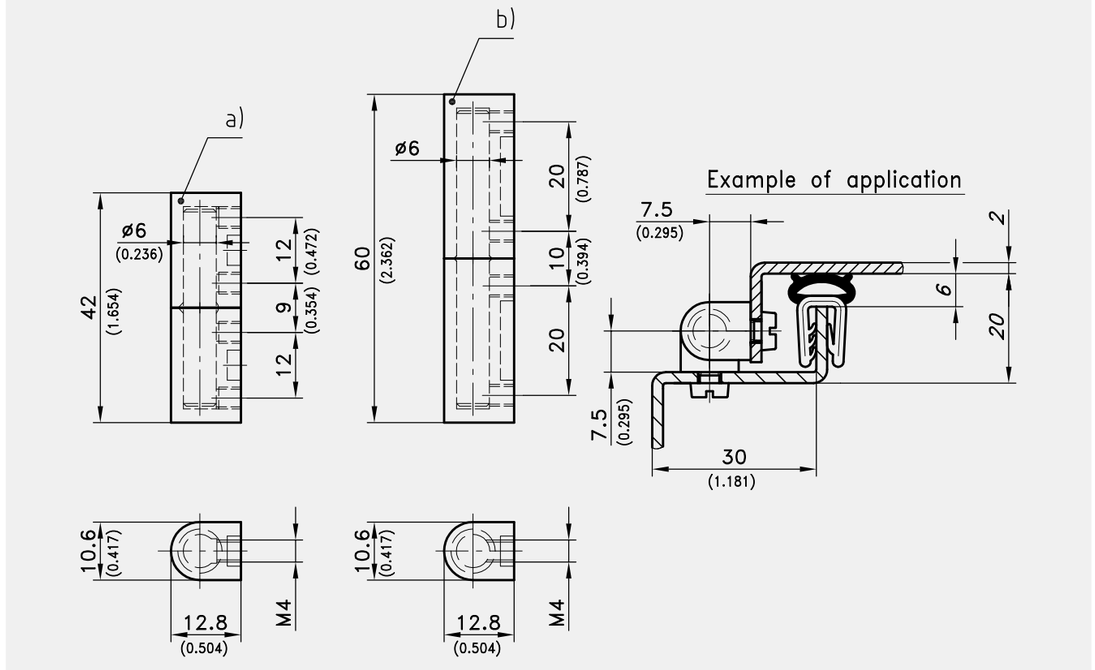
- For surface mounted doors.
- Hinge visible.
- 180° Opening angle.
- Lift-off.
- Screw-on.

Materials

- **Hinge parts:** zinc die, black
- **Pin:** steel, zinc plated
- **Screws and lockwasher:** steel, zinc plated

Remarks

4 screws M4x6 DIN84 and 4 lockwashers A4 DIN127 are included.



Corner Hinge

	Part Number	Material pin	Pin version	Installation type
a)	224-9101.00-00000	steel, zinc plated	loose	screw-on
b)	224-9102.00-00000	steel, zinc plated	loose	screw-on

Corner Hinge Pr04 180°

[4-280]



Advantages

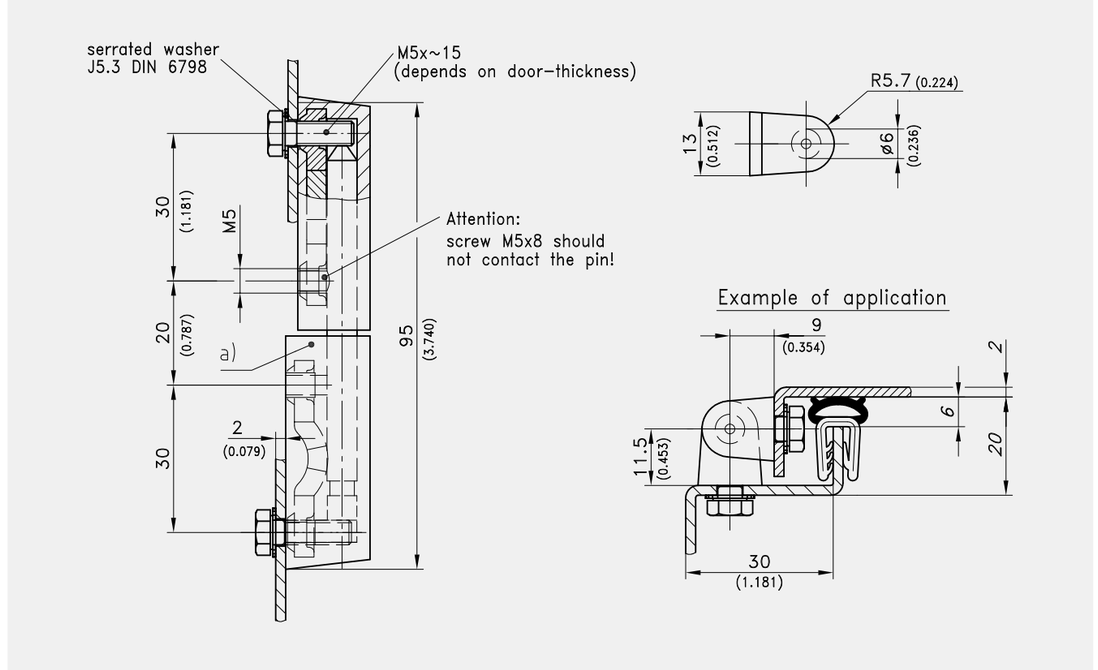
- For surface mounted doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- Lift-off.
- Using screws M5x15 will give electrical conductivity between frame and door.
- Plastic coated.
- Top and bottom part have a molded-in plate with 2 threaded holes M5. This construction makes the hinge very strong.
- Corrosion-resistant by stainless steel pin.

Materials

- **Hinge parts:** PA, black
- **Plate insert (fully molded-in):** steel, untreated
- **Pin:** stainless steel

Remarks

Screws and washers are **not** included.



Corner Hinge

Part Number	Material pin	Pin version	Installation type
224-9001.00-00000	stainless steel	molded	screw-on

Corner Hinge Pr04 180°

[4-283]

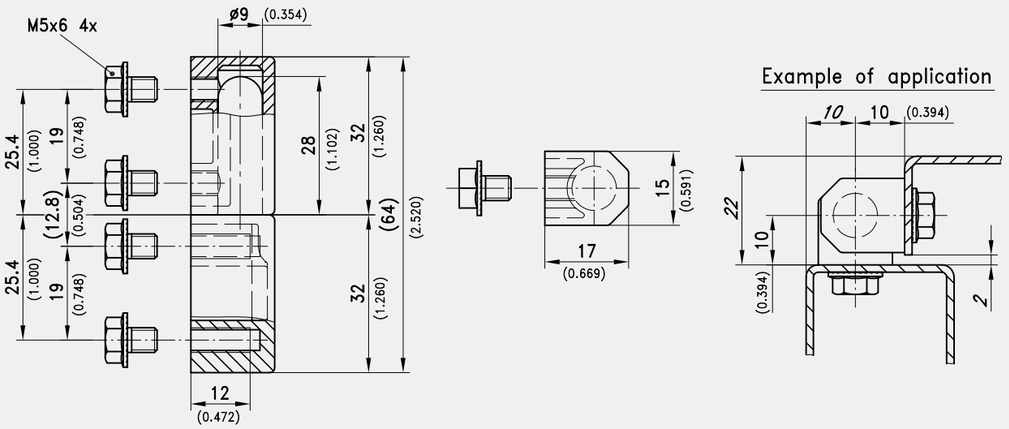


Advantages

- Elegant 180° screw-on Hinge for surface mounted doors.
- Door is lift-off.
- 180° Opening angle.
- RH or LH application.
- 4 screws M5x6 under head serrations are included.

Materials

- **Hinge:** zinc die, chrome plated or black



Corner Hinge

Part Number	Version	Material pin	Pin version	Pin length L	Ø Pin d	Installation type
224-9104.00-00000	GDZn schwarz	zinc die	molded in	28 mm	9 mm	screw-on
224-9105.00-00000	GDZn verchromt	zinc die	molded in	28 mm	9 mm	screw-on

DST Corner Hinge Pr04 180°

[4-283DST]



Advantages

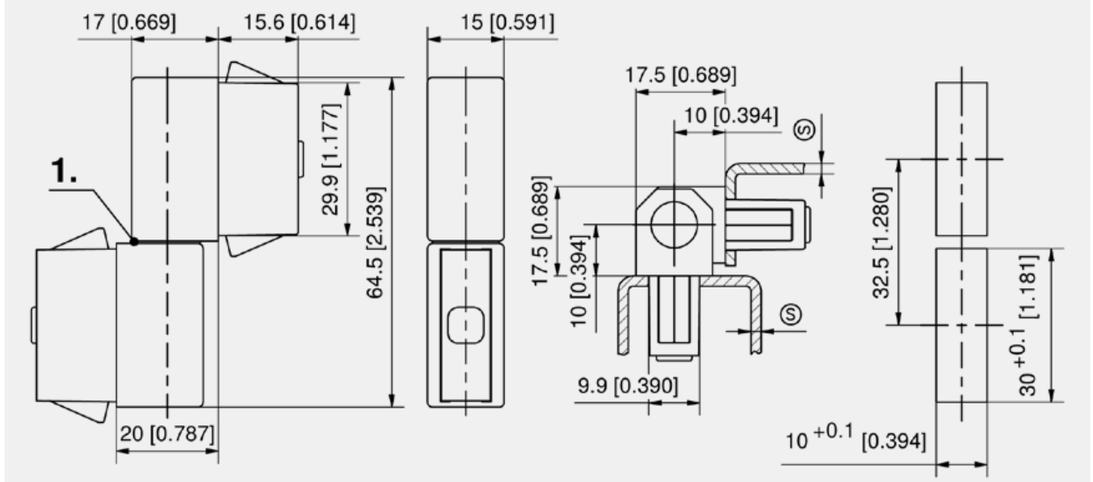
- Elegant 180° hinge for surface mounted doors.
- Tool-less installation.
- Lift-off.
- RH or LH application.
- The installation of the frame-part and door-part is achieved by a simple push into the appropriate cutouts.
- 180° Opening angle.

Materials

- **Hinge parts:** zinc die, matt black
- **Pin cast on:** zinc die
- **For heavy duty! Solid pin, pressed in:** stainless steel
- **Washer:** Teflon, black
- **Snap wedges:** sintered steel

Remarks

1. washer



Corner Hinge, pin molded in

Part Number	Clamping range	Material pin	Ø Pin d	Installation type
417-9004.00-00010	0.7 - 1.2 mm	zinc die	9 mm	tool-less
417-9004.00-00015	1.2 - 1.7 mm	zinc die	9 mm	tool-less
417-9004.00-00020	1.7 - 2.2 mm	zinc die	9 mm	tool-less
417-9004.00-00030	2.7 - 3.2 mm	zinc die	9 mm	tool-less

Corner Hinge, pin pressed in

Part Number	Clamping range	Material pin	Ø Pin d	Installation type
417-9009.00-00010	0.7 - 1.2 mm	stainless steel	9 mm	tool-less
417-9009.00-00015	1.2 - 1.7 mm	stainless steel	9 mm	tool-less
417-9009.00-00020	1.7 - 2.2 mm	stainless steel	9 mm	tool-less
417-9009.00-00030	2.7 - 3.2 mm	stainless steel	9 mm	tool-less

Accessories	
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Corner Hinge Pr04 180°

[4-285]

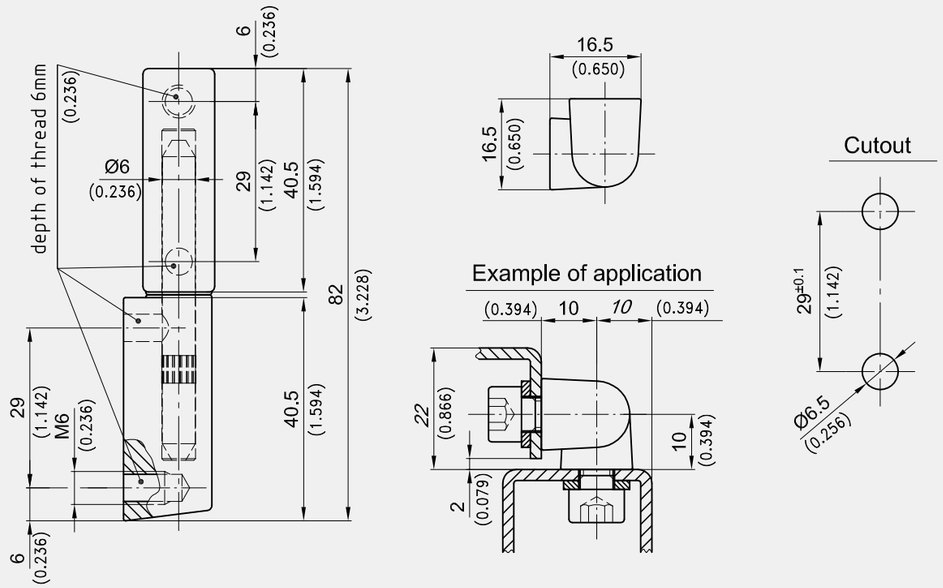


Advantages

- Elegant 180° Corner Hinge for surface mounted doors.
- 180° Opening angle.
- Screws M6 are not included.
- Lift-off.
- RH or LH application.

Materials

- **Corner hinge:** zinc die, black
- **Other surfaces on request.**
- **Pin:** stainless steel



Corner Hinge

Part Number	Length	Material pin	Pin version	Ø Pin d	Installation type
224-9008.00-00000	82 mm	stainless steel	loose	6 mm	screw-on

Corner Hinge Pr04 180° Stainless Steel

[7-211]

for surface mounted door, stainless steel AISI 316

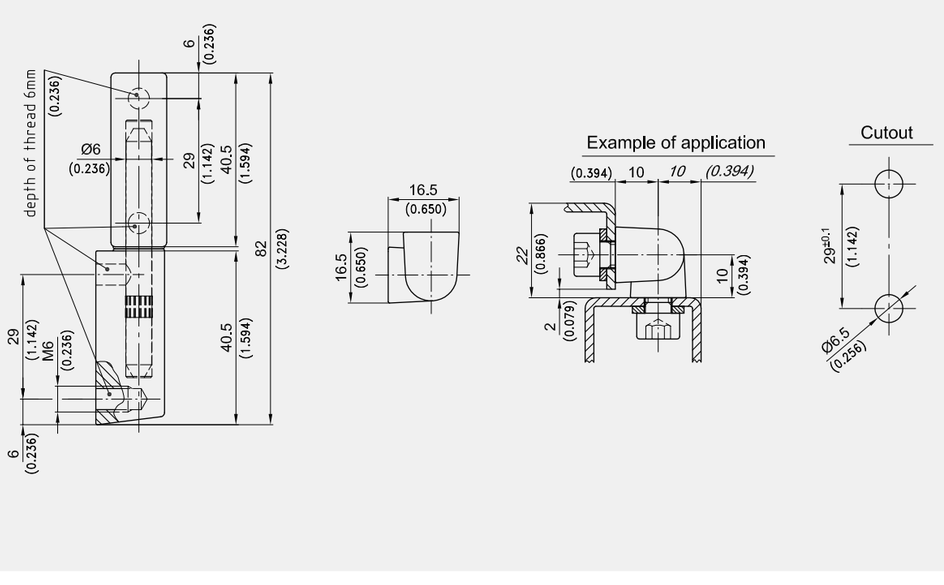


Advantages

- Elegant 180° corner hinge for surface mounted doors.
- 180° Opening angle.
- Screw-on.
- Lift-off.
- RH or LH application.
- Screws M6 are not included.

Materials

- **Corner hinge:** stainless steel AISI 316, satin polished
- **Pin:** stainless steel



Corner Hinge

Part Number	Pin version	Material pin	Installation type
224-9201.00-00000	pressed in	stainless steel AISI 316	screw-on

DST Corner Hinge Pr04 180°

[4-285DST]



Advantages

- Elegant 180° corner hinge for surface mounted doors.
- 180° Opening angle.
- Lift-off.
- RH and LH application.
- The O-ring for IP65 DIN EN 60529 is included.
- **Version A** for tool-less installation. Assembly via a simple clip-in into the cutout.
- **Version B** for screw-on / clip-in installation. One hinge half is fixed by screws M6, the other hinge half will be assembled via a simple clip-in into the cutout.

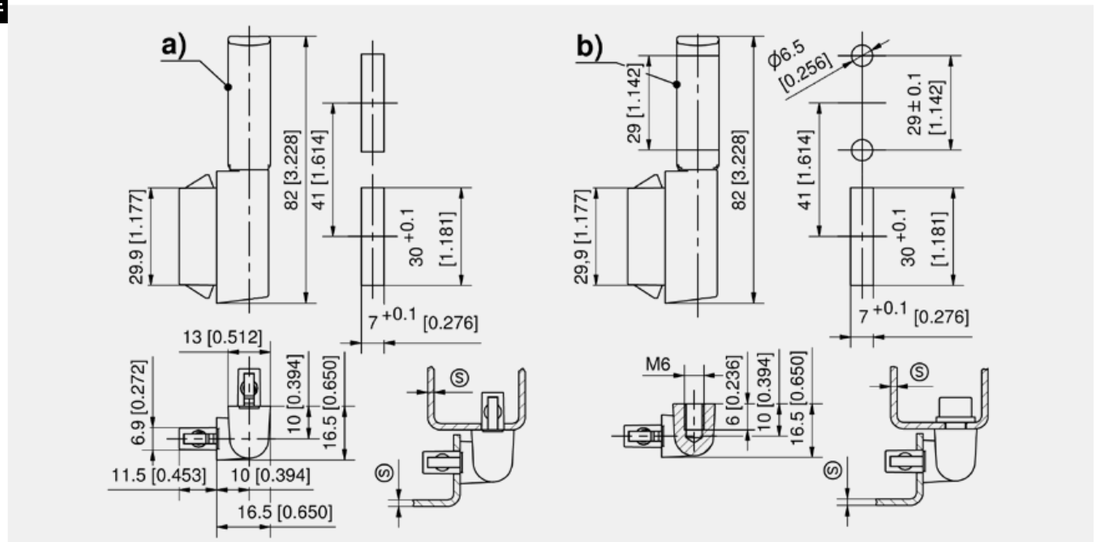
Materials

- **Corner hinge:** zinc die, matt black
- **Nickel plated and chrome plated on request.**
- **Pin:** stainless steel
- **Snap wedges:** sintered steel

Remarks

Other versions DST/Screw-on on request. Please contact DIRAK.

Screws M6 are **not** included.



Corner Hinge, snap-in

	Part Number	Clamping range	Length	Material pin	Pin version	Installation type
a)	417-9015.00-00012	0.8 - 1.5 mm	82 mm	stainless steel	pressed in	tool-less
a)	417-9015.00-00016	1.3 - 2.0 mm	82 mm	stainless steel	pressed in	tool-less
a)	417-9015.00-00019	1.5 - 2.2 mm	82 mm	stainless steel	pressed in	tool-less
a)	417-9015.00-00026	2.3 - 3.0 mm	82 mm	stainless steel	pressed in	tool-less

Corner Hinge, snap-in / screw-on

	Part Number	Clamping range	Length	Material pin	Pin version	Installation type
b)	417-9017.00-00012	0.8 - 1.5 mm	82 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.00-00016	1.3 - 2.0 mm	82 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.00-00019	1.5 - 2.2 mm	82 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.00-00026	2.3 - 3.0 mm	82 mm	stainless steel	pressed in	tool-less / screw-on

Accessories

755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03007 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

DST Corner Hinge Pr04 180° Stainless steel

[7-285DST]



Advantages

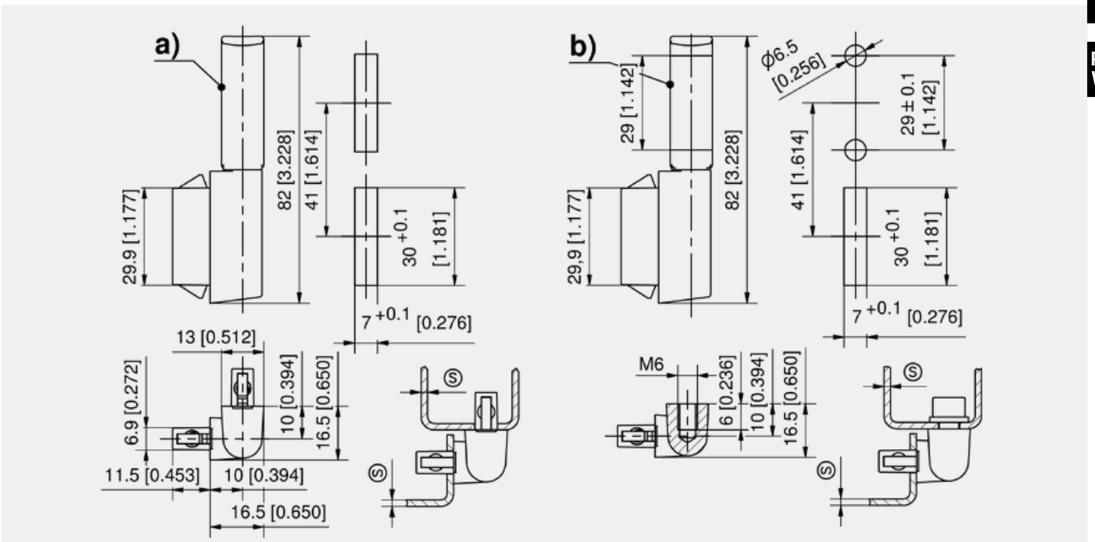
- Elegant corner hinge for surface mounted doors.
- 180° Opening angle.
- Lift-off.
- RH and LH application.
- The O-ring for IP65 DIN EN 60529 is included.
- **Version A** for tool-less installation. Assembly via a simple clip-in into the cutout.
- **Version B** for screw-on / clip-in installation. One hinge half is fixed by screws M6, the other hinge half will be assembled via a simple clip-in into the cutout.

Materials

- **Corner hinge:** stainless steel AISI 316
- **Pin:** stainless steel AISI 304
- **Snap wedges:** stainless steel
- **O-ring:** NBR/ black

Remarks

Other versions DST/screw-on on request. Please contact DIRAK.



Corner Hinge, snap-in

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	417-9015.82-00012	0.8 - 1.5 mm	stainless steel	pressed in	tool-less
a)	417-9015.82-00016	1.3 - 2.0 mm	stainless steel	pressed in	tool-less
a)	417-9015.82-00021	1.8 - 2.5 mm	stainless steel	pressed in	tool-less
a)	417-9015.82-00026	2.3 - 3.0 mm	stainless steel	pressed in	tool-less

Corner Hinge, snap-in / screw-on

	Part Number	Clamping range	Material pin	Pin version	Installation type
b)	417-9017.82-00012	0.8 - 1.5 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.82-00016	1.3 - 2.0 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.82-00021	1.8 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on
b)	417-9017.82-00026	2.3 - 3.0 mm	stainless steel	pressed in	tool-less / screw-on

Accessories

755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03007 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Corner Hinge Pr04 180°

[4-290]

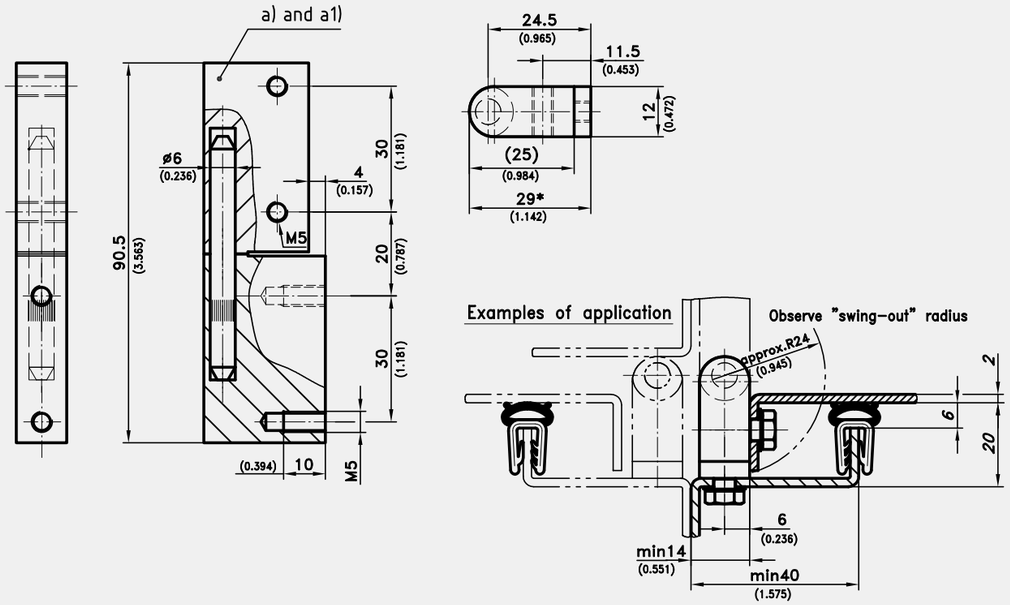


Advantages

- Hinge screw-on for surface mounted doors and adjacent cabinets.
- RH or LH application.
- 180° Opening angle.
- Door is lift-off.

Materials

- **Hinge parts:** zinc die, chrome plated or black
- **Pin:** stainless steel



Corner Hinge, zinc die, black

	Part Number	Height frame-part	Height door-part	Pin version	Material pin	Installation type	Ø Pin d
a)	210-9001.00-00000	25 mm	29 mm	pressed in	stainless steel	screw-on	6 mm
a1)	210-9003.00-00000	35 mm	39 mm	pressed in	stainless steel	screw-on	6 mm

Corner Hinge, zinc die, chrome plated

	Part Number	Height frame-part	Height door-part	Pin version	Material pin	Installation type	Ø Pin d
a)	210-9002.00-00000	25 mm	29 mm	pressed in	stainless steel	screw-on	6 mm

Corner Hinge Pr04 180° Stainless Steel

[7-210]



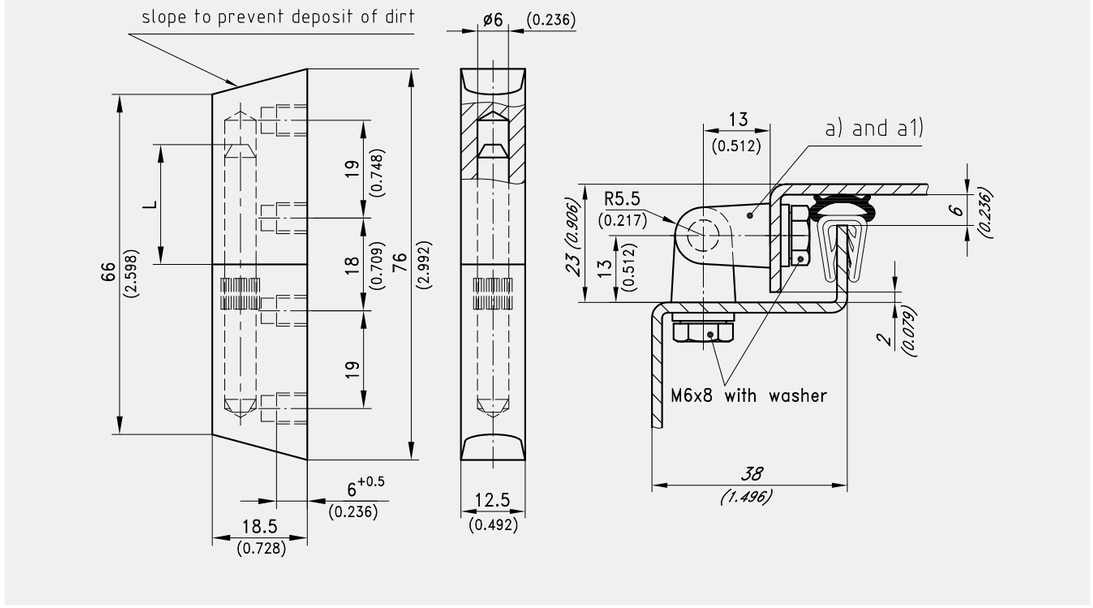
for surface mounted door, stainless steel AISI 316

Advantages

- Screw-on hinge, lift-off.
- RH or LH application.
- The sloping ends prevent the deposit of dust or dirt.
- 180° Opening angle.

Materials

- **Hinge completely:** stainless steel AISI 316



Corner Hinge

	Part Number	Material pin	Pin version	Pin length L	Installation type
a)	224-9003.00-00000	stainless steel AISI 316	pressed in	23 mm	screw-on
a1)	224-9005.00-00000	stainless steel AISI 316	pressed in	17.6 mm	screw-on

Corner Hinge Pr04 180°

[4-286]

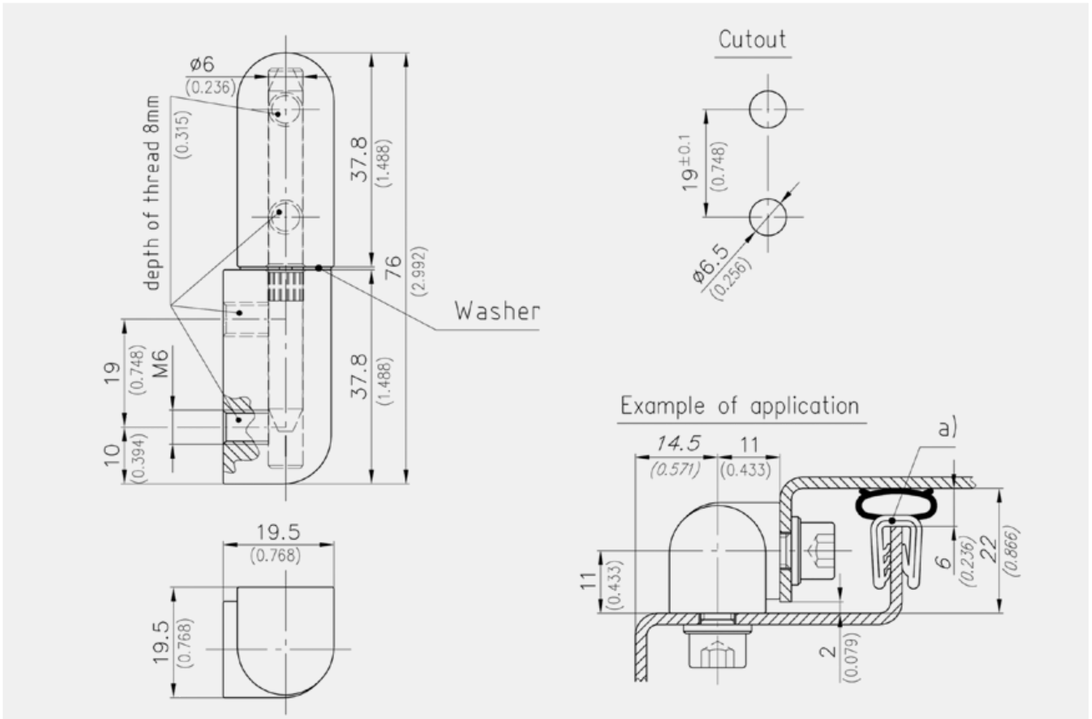


Advantages

- For surface mounted doors.
- Hinge visible.
- Lift-off.
- RH / LH application.
- 180° Opening angle.
- Pin pressed-in.
- With teflon spacer for a durable, smooth-running functional reliability.

Materials

- **Corner hinge:** zinc die, chrome plated, black powdered or untreated
- **Pin:** steel, zinc plated
- **Washer:** teflon



Corner Hinge

Part Number	Version	Material pin	Pin version	Ø Pin d	Installation type
224-9009.00-00000	chrome plated	steel, zinc plated	pressed in	6 mm	screw-on
224-9010.00-00000	black powdered	steel, zinc plated	pressed in	6 mm	screw-on
224-9011.00-00000	untreated	steel, zinc plated	pressed in	6 mm	screw-on

Corner Hinge Pr04 180°

[4-308]

for surface mounted door

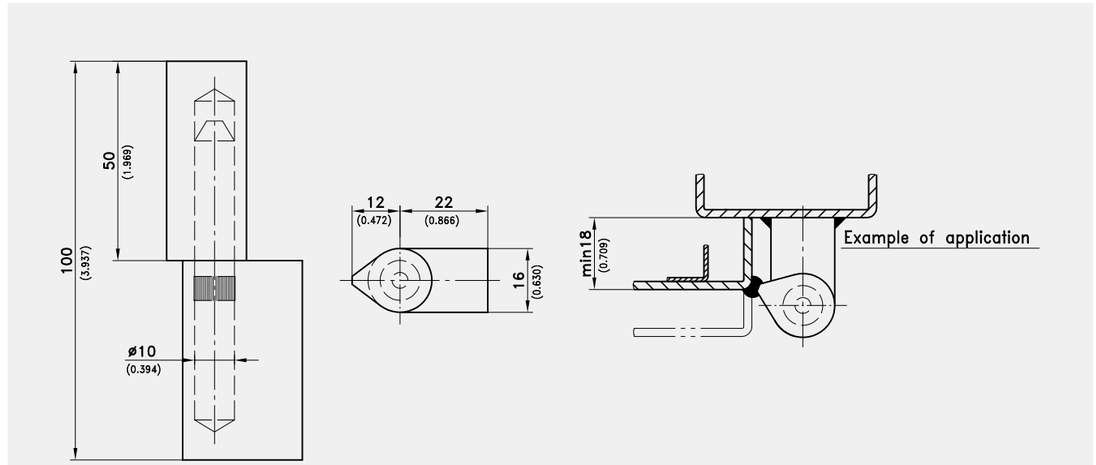


Advantages

- Weld-on Hinge.
- Door is lift-off.
- 180° Opening angle.

Materials

- **Hinge parts:** steel, untreated
- **Pin:** steel, untreated



Corner Hinge

Part Number	Length	Material pin	Pin version	Ø Pin d	Installation type
223-9501.00-00000	100 mm	steel untreated	pressed in	10 mm	weld-on

Corner Hinge Pr04 180°

[4-310]



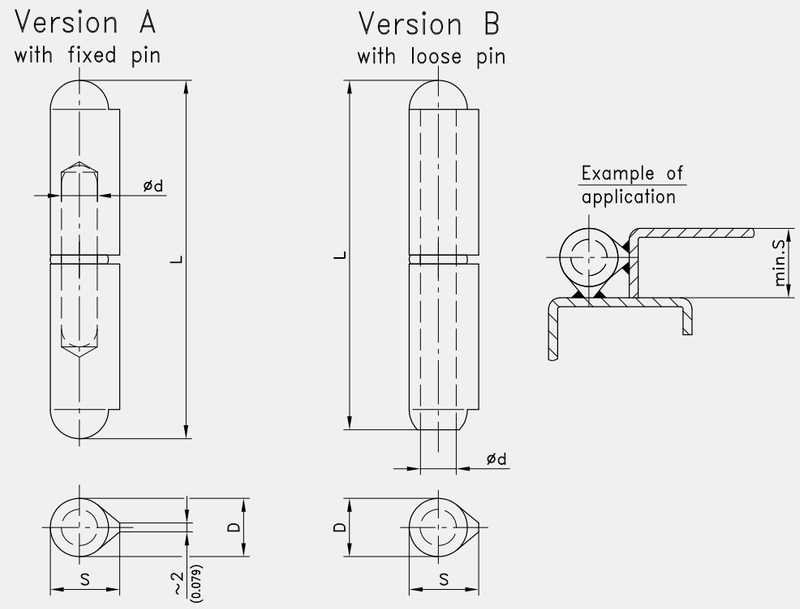
for surface mounted door

Advantages

- Weld-on Hinge.
- Door is lift-off.
- 180° Opening angle.

Materials

- **Hinge parts:** steel, untreated
- **Pin:** steel or brass
- **Washer:** brass



Corner Hinge, version A

Part Number	Length	Dimension S	Ø Knurl D	Material pin	Pin version	Ø Pin d	Installation type
223-9001.00-00000	40 mm	10 mm	8 mm	steel, zinc plated	fixed	5 mm	weld-on
223-9002.00-00000	50 mm	10 mm	8 mm	steel, zinc plated	fixed	5 mm	weld-on
223-9003.00-00000	60 mm	12 mm	10 mm	steel, zinc plated	fixed	6 mm	weld-on
223-9004.00-00000	70 mm	12 mm	10 mm	steel, zinc plated	fixed	6 mm	weld-on
223-9005.00-00000	80 mm	16 mm	13 mm	steel, zinc plated	fixed	8 mm	weld-on
223-9006.00-00000	90 mm	16 mm	13 mm	steel, zinc plated	fixed	8 mm	weld-on
223-9007.00-00000	100 mm	20 mm	16 mm	steel, zinc plated	fixed	10 mm	weld-on
223-9008.00-00000	120 mm	20 mm	16 mm	steel, zinc plated	fixed	10 mm	weld-on
223-9009.00-00000	135 mm	22.5 mm	18 mm	steel, zinc plated	fixed	12 mm	weld-on
223-9010.00-00000	150 mm	25.5 mm	20 mm	steel, zinc plated	fixed	13 mm	weld-on
223-9011.00-00000	180 mm	25.5 mm	20 mm	steel, zinc plated	fixed	13 mm	weld-on
223-9012.00-00000	200 mm	29 mm	23 mm	steel, zinc plated	fixed	16 mm	weld-on
223-9101.00-00000	40 mm	10 mm	8 mm	brass	fixed	5 mm	weld-on
223-9102.00-00000	50 mm	10 mm	8 mm	brass	fixed	5 mm	weld-on
223-9103.00-00000	60 mm	12 mm	10 mm	brass	fixed	6 mm	weld-on
223-9104.00-00000	70 mm	12 mm	10 mm	brass	fixed	6 mm	weld-on
223-9105.00-00000	80 mm	16 mm	13 mm	brass	fixed	8 mm	weld-on
223-9106.00-00000	90 mm	16 mm	13 mm	brass	fixed	8 mm	weld-on
223-9107.00-00000	100 mm	20 mm	16 mm	brass	fixed	10 mm	weld-on
223-9108.00-00000	120 mm	20 mm	16 mm	brass	fixed	10 mm	weld-on
223-9109.00-00000	135 mm	22.5 mm	18 mm	brass	fixed	12 mm	weld-on
223-9110.00-00000	150 mm	25.5 mm	20 mm	brass	fixed	13 mm	weld-on
223-9111.00-00000	180 mm	25.5 mm	20 mm	brass	fixed	13 mm	weld-on
223-9112.00-00000	200 mm	29 mm	23 mm	brass	fixed	16 mm	weld-on

Corner Hinge, version B

Part Number	Length	Dimension S	Ø Knurl D	Material pin	Pin version	Ø Pin d	Installation type
223-9201.00-00000	40 mm	10 mm	8 mm	steel, zinc plated	loose	5 mm	weld-on
223-9202.00-00000	50 mm	10 mm	8 mm	steel, zinc plated	loose	5 mm	weld-on
223-9203.00-00000	60 mm	12 mm	10 mm	steel, zinc plated	loose	6 mm	weld-on
223-9204.00-00000	70 mm	12 mm	10 mm	steel, zinc plated	loose	6 mm	weld-on
223-9205.00-00000	80 mm	16 mm	13 mm	steel, zinc plated	loose	8 mm	weld-on
223-9206.00-00000	90 mm	16 mm	13 mm	steel, zinc plated	loose	8 mm	weld-on
223-9207.00-00000	100 mm	20 mm	16 mm	steel, zinc plated	loose	10 mm	weld-on
223-9208.00-00000	120 mm	20 mm	16 mm	steel, zinc plated	loose	10 mm	weld-on
223-9209.00-00000	135 mm	22.5 mm	18 mm	steel, zinc plated	loose	12 mm	weld-on
223-9210.00-00000	150 mm	25.5 mm	20 mm	steel, zinc plated	loose	13 mm	weld-on
223-9211.00-00000	180 mm	25.5 mm	20 mm	steel, zinc plated	loose	13 mm	weld-on
223-9212.00-00000	200 mm	29 mm	23 mm	steel, zinc plated	loose	16 mm	weld-on
223-9301.00-00000	40 mm	10 mm	8 mm	brass	loose	5 mm	weld-on
223-9302.00-00000	50 mm	10 mm	8 mm	brass	loose	5 mm	weld-on
223-9303.00-00000	60 mm	12 mm	10 mm	brass	loose	6 mm	weld-on
223-9304.00-00000	70 mm	12 mm	10 mm	brass	loose	6 mm	weld-on
223-9305.00-00000	80 mm	16 mm	13 mm	brass	loose	8 mm	weld-on
223-9307.00-00000	100 mm	20 mm	16 mm	brass	loose	10 mm	weld-on
223-9308.00-00000	120 mm	20 mm	16 mm	brass	loose	10 mm	weld-on
223-9309.00-00000	135 mm	22.5 mm	18 mm	brass	loose	12 mm	weld-on
223-9310.00-00000	150 mm	25.5 mm	20 mm	brass	loose	13 mm	weld-on

Hinges

Corner Hinge Pr04 180° Stainless Steel [7-130]



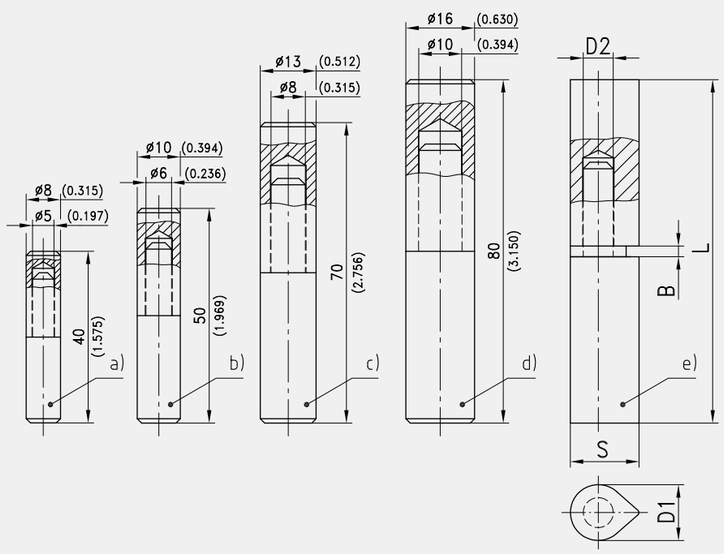
for surface mounted door, stainless steel AISI 304

Advantages

- Hinges, made from round, stainless steel rod or with drop-shape.
- Door is lift-off.
- Weld-on
- 180° Opening angle.

Materials

- **Hinge, pin and washer:** stainless steel AISI 304



Corner Hinge

	Part Number	Dimension	Material pin	Pin version	Installation type
a)	223-9401.00-00000	Ø8x40	stainless steel	molded in	weld-on
b)	223-9402.00-00000	Ø10x50	stainless steel	molded in	weld-on
c)	223-9403.00-00000	Ø13x70	stainless steel	molded in	weld-on
d)	223-9404.00-00000	Ø16x80	stainless steel	molded in	weld-on

Corner Hinge with weld-on drop

	Part Number	L	D1	S	B	D2	Material pin	Pin version	Installation type
e)	223-9601.00-00000	60 mm	10 mm	12.4 mm	2 mm	6 mm	stainless steel	pressed in	weld-on
e)	223-9602.00-00000	80 mm	13 mm	16 mm	2.5 mm	7 mm	stainless steel	pressed in	weld-on
e)	223-9603.00-00000	100 mm	16 mm	20 mm	3 mm	9 mm	stainless steel	pressed in	weld-on
e)	223-9604.00-00000	120 mm	16 mm	20 mm	3 mm	9 mm	stainless steel	pressed in	weld-on

Corner Hinge Pr04 180° [4-320]



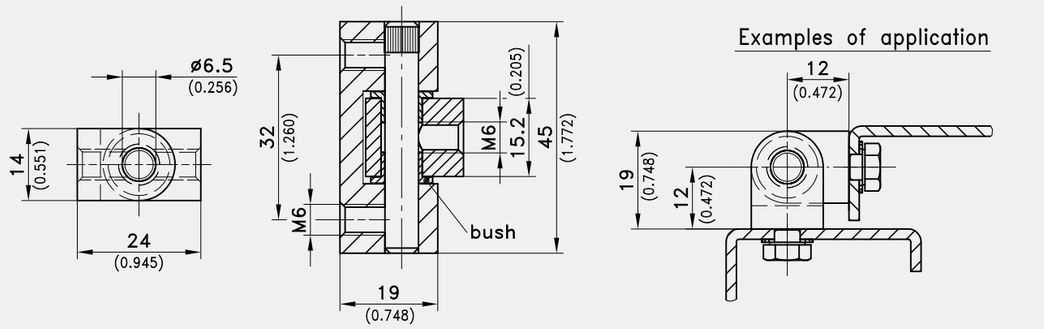
for surface mounted door, with PA bushings

Advantages

- Hinge for surface mounted doors.
- RH or LH application.
- 180° Opening angle.

Materials

- **Frame- and middle-part:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Bushings:** PA, natural



Corner Hinge

Part Number	Version	Material pin	Pin version	Installation type
217-9001.00-00000	chrome plated	stainless steel	pressed in	screw-on
217-9002.00-00000	black coated	stainless steel	pressed in	screw-on

Accessories
746 6-040 **Serrated Screws**

Corner Hinge Pr04 180°

[4-323]

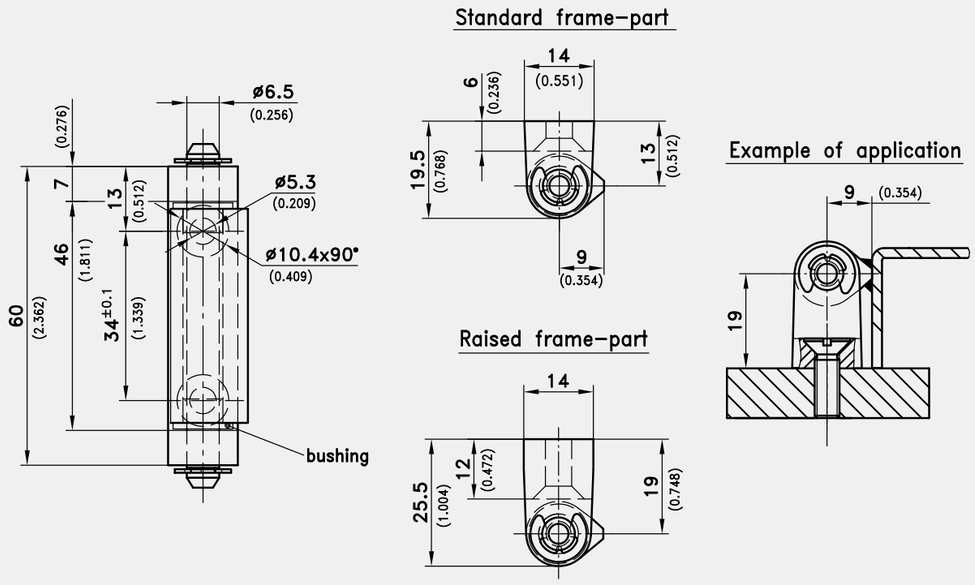


Advantages

- Hinge for surface mounted doors.
- Frame-part screw-on and middle-part weld-on.
- Pin pivots in polyamide bushings.
- 180° Opening angle.

Materials

- **Frame-part:** zinc die, chrome plated or black
- **Middle-part:** steel, untreated
- **Pin:** steel, zinc plated
- **Bushings:** PA, natural



Corner Hinge, Frame-part chrome plated

Part Number	Frame-part	Material pin	Pin version	Installation type
217-9201.00-00000	normal	steel, zinc plated	captive	screw- / weld-on
217-9203.00-00000	raised	steel, zinc plated	captive	screw- / weld-on

Corner Hinge, Frame-part black

Part Number	Frame-part	Material pin	Pin version	Installation type
217-9202.00-00000	normal	steel, zinc plated	captive	screw- / weld-on
217-9204.00-00000	raised	steel, zinc plated	captive	screw- / weld-on

Corner Hinge Pr04 180°

[4-326]

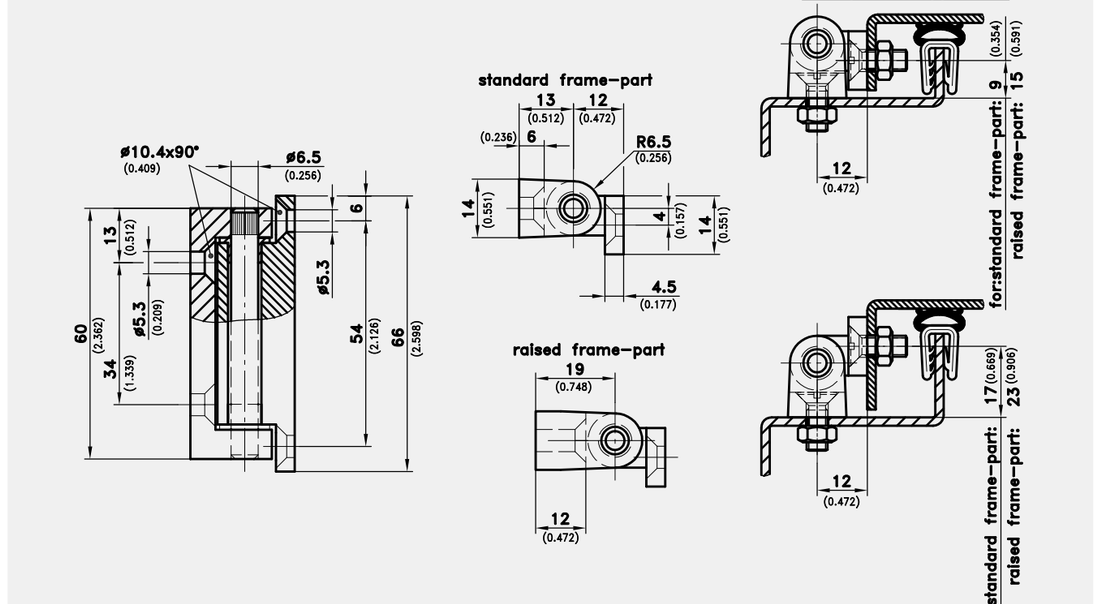


Advantages

- Hinge for surface mounted doors, screw-on.
- The stainless hinge pin pivots in PA bushings.
- The 2 upper examples of applications show the asymetric layout of the door-part. This layout allows for a wide variety of door bendings.
- The knurled pin can be replaced by a pin with 2 c-clips see product system 4-330.
- 180° Opening angle.

Materials

- **Frame- and middle-part**: zinc die, chrome plated or black
- **Pin:** stainless steel
- **Bushings:** PA, natural



Corner Hinge, Frame-part chrome plated

Part Number	Frame-part	Material pin	Pin version	Installation type
217-9301.00-00000	normal	stainless steel	pressed in	screw-on
217-9303.00-00000	raised	stainless steel	pressed in	screw-on

Corner Hinge, Frame-part black

Part Number	Frame-part	Material pin	Pin version	Installation type
217-9302.00-00000	normal	stainless steel	pressed in	screw-on
217-9304.00-00000	raised	stainless steel	pressed in	screw-on

Corner Hinge Pr04 180°

[4-370]



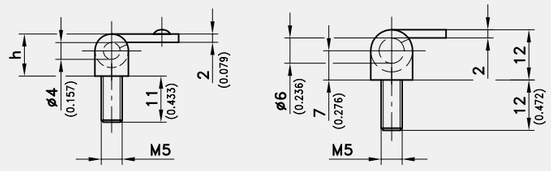
for surface mounted door

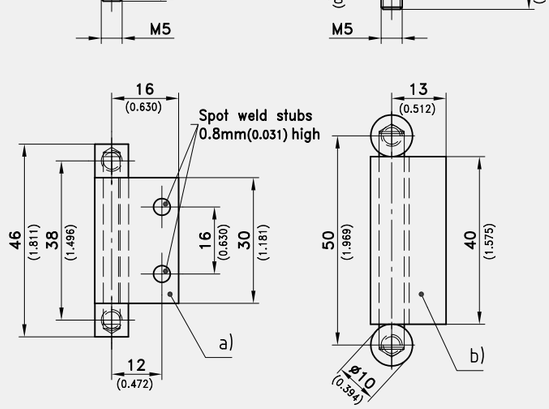
Advantages

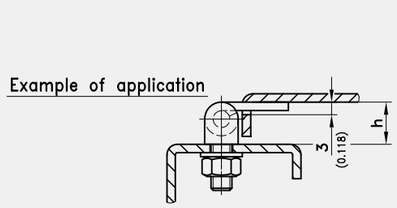
- Hinge to be welded in door slot.
- 180° Opening angle.

Materials

- **Door-part:** steel, untreated
- **Pin and Frame-parts:** steel, zinc plated







Corner Hinge

	Part Number	Height H	Material pin	Installation type
a)	240-9201.00-00000	10 mm	steel, zinc plated	screw- / weld-on
a)	240-9202.00-00000	12 mm	steel, zinc plated	screw- / weld-on
b)	240-9002.00-00000	12 mm	steel, zinc plated	screw- / weld-on

DST Corner Hinge Pr04 180°

[4-349DST]



Advantages

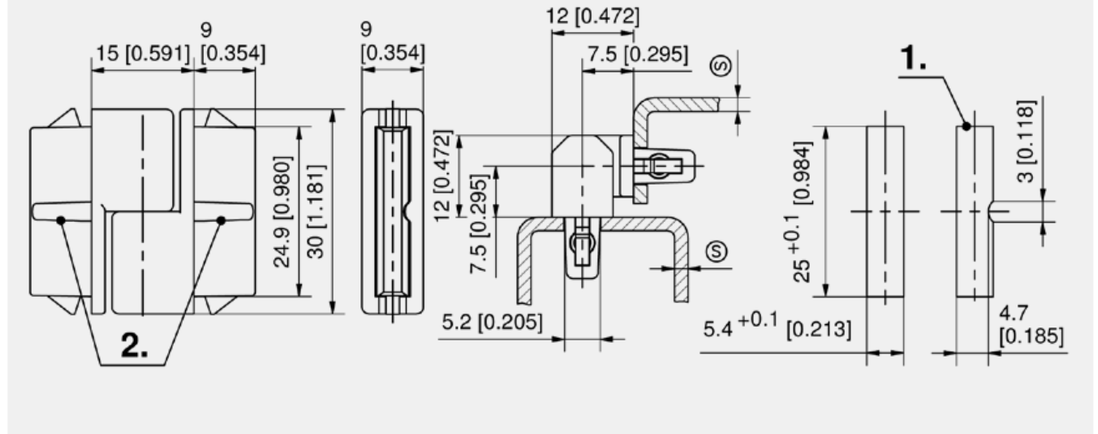
- Small, elegant, snap-in hinge, for surface mounted doors.
- 180° Opening angle.
- Lift-off.
- RH and LH application.
- The installation is tool-less effected by a simple push into appropriate cutout.
- To guarantee a correct positional installation, the cutouts can have indentations.

Materials

- **Hinge parts:** zinc die, matt chrome plated
- **Other surfaces on request!**
- **Pin:** steel, zinc plated
- **Snap wedges:** sintered steel

Remarks

1. alternative cutout
2. indentation for correct positional installation



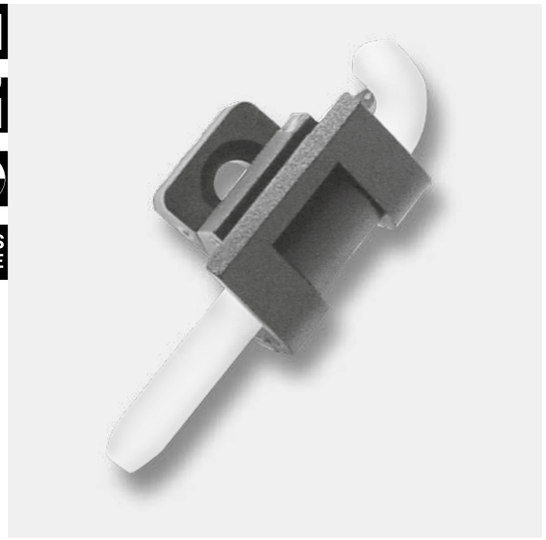
Corner Hinge, clip-in

Part Number	Clamping range	Material pin	Pin version	Installation type
417-9201.00-00609	0.6 - 0.9 mm	steel, zinc plated	pressed in	tool-less
417-9201.00-00811	0.8 - 1.1 mm	steel, zinc plated	pressed in	tool-less
417-9201.00-01215	1.2 - 1.5 mm	steel, zinc plated	pressed in	tool-less
417-9201.00-01821	1.8 - 2.1 mm	steel, zinc plated	pressed in	tool-less
417-9201.00-02225	2.2 - 2.5 mm	steel, zinc plated	pressed in	tool-less

	Accessories
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr05 180°

[4-145]



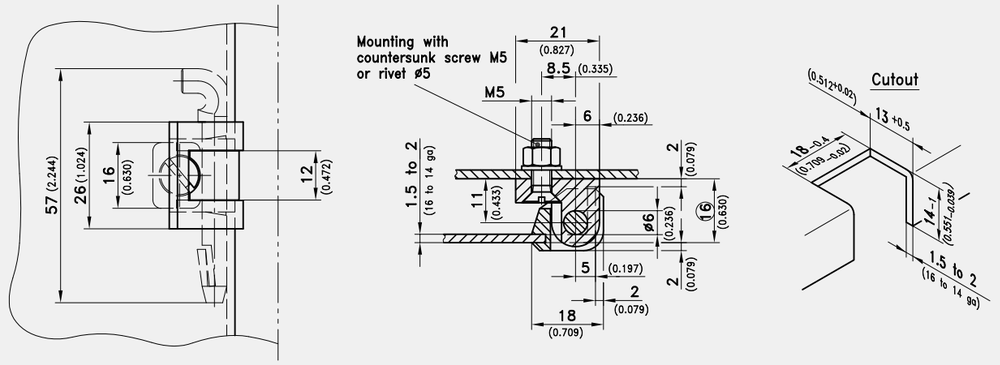
for single cabinet, door bending 16mm, for surface mounted door

Advantages

- 180° Polyamide hinge with self-locking pin used to control cabinet doors or machine flaps.
- RH or LH application.
- 180° Opening angle.

Materials

- **Frame-part and door-part**: PA, black
- **Pin:** POM natural



Hinge

Part Number	Material pin	Pin version	Installation type
212-9101.00-00000	POM	self-locking	screw-on

Hinge Pr05 180° Stainless Steel

[7-133]



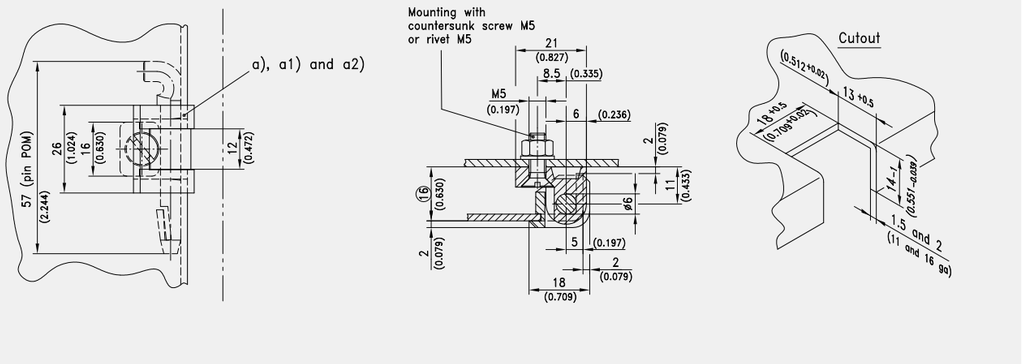
for single cabinets, door bending 16mm, for surface mounted door, stainless steel AISI 316

Advantages

- 180° Hinge, RH or LH application.
- The POM pin is self-locking.
- 180° Opening angle.

Materials

- **Hinge parts:** stainless steel AISI 316
- **Pin:** POM, natural or stainless steel



Hinge

	Part Number	Door-thickness	Material pin	Pin version	Pin length L	Ø Pin d
a)	212-9704.00-00000	1.5 mm	stainless steel AISI 316	loose	70 mm	6 mm
a1)	212-9713.00-00000	2 mm	stainless steel AISI 316	loose	70 mm	6 mm
a2)	212-9703.00-00000	2 mm	POM	self-locking	57 mm	6 mm

Hinge Pr05 180°

[4-150]



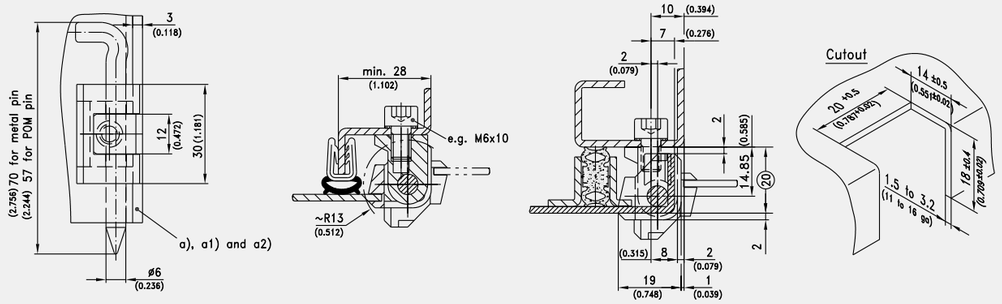
for single cabinet, door bending 20mm

Advantages

- 180° Hinge for surface mounted door.
- RH or LH application.
- The door-part has 2 stubs, keeping it in position during mounting of the pin.
- This hinge is fully interchangeable with the hinge shown on product system 4-160.
- 180° Opening angle.

Materials

- **Frame-part and door-part:** zinc die, chrome plated or black
- **Pins:** steel, zinc plated, stainless steel or POM natural



Hinge, zinc die, chrome plated

	Part Number	Door-thickness	Material pin	Pin version	Pin length L	Ø Pin d	Installation type
a)	212-9001.00-00000	1.5 - 2.0 mm	steel, zinc plated	loose	70 mm	6 mm	screw-on
a1)	212-9002.00-00000	1.5 - 2.0 mm	stainless steel	loose	70 mm	6 mm	screw-on
a2)	212-9003.00-00000	1.5 - 2.0 mm	POM	self-locking	57 mm	6 mm	screw-on
a)	212-9501.00-00000	2.5 - 3.2 mm	steel, zinc plated	loose	70 mm	6 mm	screw-on
a1)	212-9502.00-00000	2.5 - 3.2 mm	stainless steel	loose	70 mm	6 mm	screw-on
a2)	212-9503.00-00000	2.5 - 3.2 mm	POM	self-locking	57 mm	6 mm	screw-on

Hinge, zinc die, black

	Part Number	Door-thickness	Material pin	Pin version	Pin length L	Ø Pin d	Installation type
a)	212-9004.00-00000	1.5 - 2.0 mm	steel, zinc plated	loose	70 mm	6 mm	screw-on
a1)	212-9005.00-00000	1.5 - 2.0 mm	stainless steel	loose	70 mm	6 mm	screw-on
a2)	212-9006.00-00000	1.5 - 2.0 mm	POM	self-locking	57 mm	6 mm	screw-on
a)	212-9504.00-00000	2.5 - 3.2 mm	steel, zinc plated	loose	70 mm	6 mm	screw-on
a1)	212-9505.00-00000	2.5 - 3.2 mm	stainless steel	loose	70 mm	6 mm	screw-on
a2)	212-9506.00-00000	2.5 - 3.2 mm	POM	self-locking	57 mm	6 mm	screw-on

	Accessories
746	6-040 **Serrated Screws**

Hinge Pr05 180° Stainless Steel

[7-134]



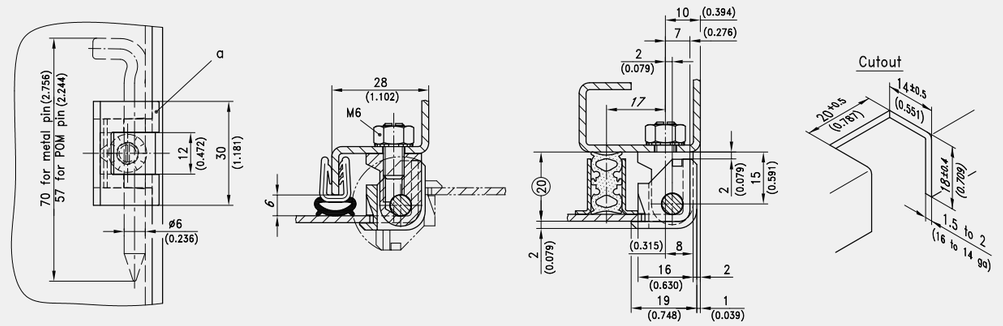
for single cabinets, door bending 20mm, stainless steel AISI 316

Advantages

- 180° hinge for surface mounted door.
- RH or LH application.
- The POM pin is self-locking.
- Stud, serrated washer and nuts are included.
- 180° Opening angle.

Materials

- **Hinge parts:** stainless steel AISI 316
- **Pin:** POM, natural or stainless steel



Hinge

	Part Number	Pin version	Door-thickness	Material pin	Pin length L	Installation type
a)	212-9201.00-00000	loose	1.5 - 2.0 mm	stainless steel	70 mm	screw-on
a1)	212-9202.00-00000	self-locking	1.5 - 2.0 mm	POM	57 mm	screw-on

Hinge Pr05 180°

[4-152]



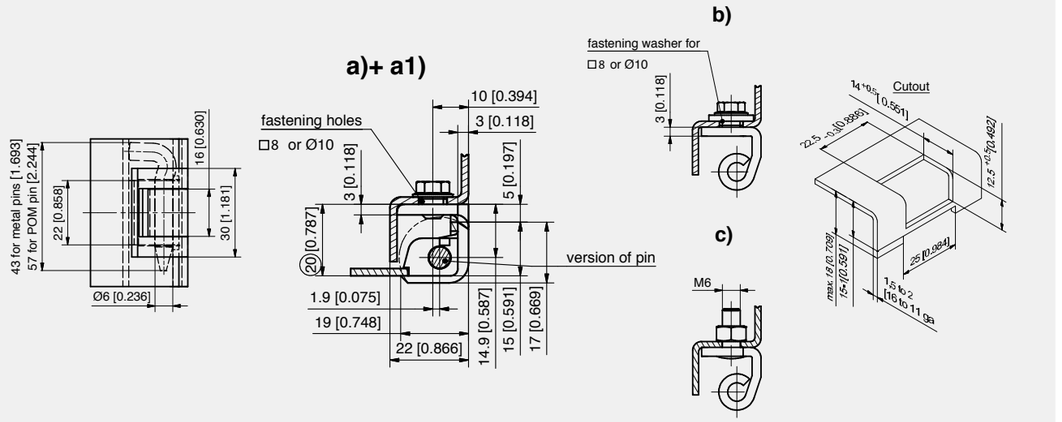
for single cabinet, door bending 20mm

Advantages

- 180° Hinge for surface mounted door.
- RH or LH application.
- The frame-part in the zinc die version has two M6 threaded square stubs for fixing from inside.
- Frame-part made of steel for heavy applications!
- 180° Opening angle.

Materials

- **Frame-part:** zinc die, chrome plated, black or steel, black
- **Fastening washer:** steel, zinc plated
- **Door-part:** zinc die, chrome plated or black
- **Pin:** steel, stainless steel or POM



Hinge

	Part Number	Frame-part	Version	Material pin	Pin version	Installation type
a)	212-9056.00-00000	zinc die, chrome plated		steel, zinc plated		screw-on
a)	212-9057.00-00000	zinc die, chrome plated		stainless steel		screw-on
a)	212-9058.00-00000	zinc die, chrome plated		POM	self-locking	screw-on
a1)	212-9059.00-00000	zinc die, black		steel, zinc plated		screw-on
a1)	212-9060.00-00000	zinc die, black		stainless steel		screw-on
a1)	212-9061.00-00000	zinc die, black		POM	self-locking	screw-on
b)	212-9062.00-00000	steel, black	with fastening washer	steel, zinc plated		screw-on
b)	212-9063.00-00000	steel, black	with fastening washer	stainless steel		screw-on
b)	212-9064.00-00000	steel, black	with fastening washer	POM	self-locking	screw-on
c)	212-9090.00-00000	steel, black	with pressed in pin M6	steel, zinc plated		screw-on

Accessories
d) 746 6-040 **Serrated Screws**

Hinge Pr05 180° Stainless Steel

[7-132]



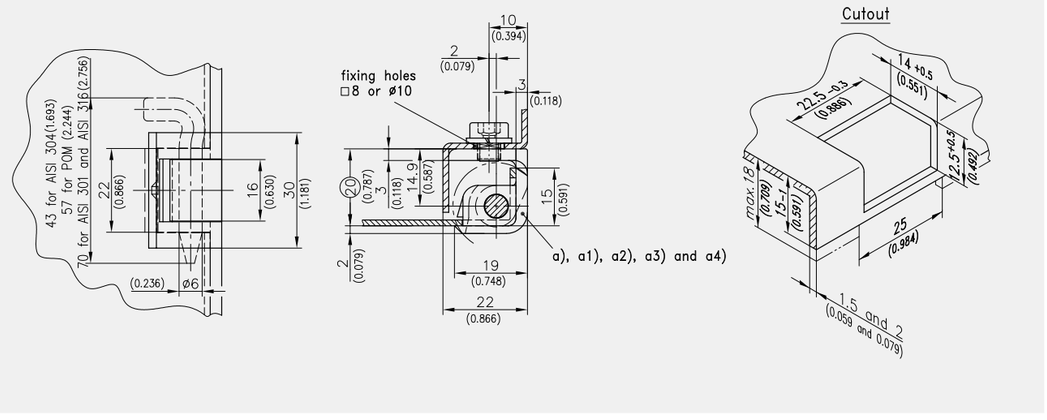
for single cabinets, door bending 20mm, stainless steel AISI 316

Advantages

- 180° Hinge for surface mounted door.
- RH or LH application.
- The frame-part has a M6 threaded square stub for installation from inside.
- Closed cutout provides a stronger bending.
- 180° Opening angle.

Materials

- **Frame-part and door-part:** stainless steel AISI 316
- **Pin:** stainless steel or POM



Hinge

	Part Number	Material pin	Pin length L	Door-thickness
a)	212-9707.00-00000	stainless steel AISI 301	70 mm	1.5 mm
a1)	212-9716.00-00000	stainless steel AISI 316	70 mm	1.5 mm
a2)	212-9714.00-00000	stainless steel AISI 316	70 mm	2 mm
a3)	212-9705.00-00000	stainless steel AISI 301	43 mm	2 mm
a4)	212-9706.00-00000	POM	57 mm	2 mm

Accessories
202-0606.04-00000 **Serrated screw**

DST Hinge Pr05 180°

[4-152DST]



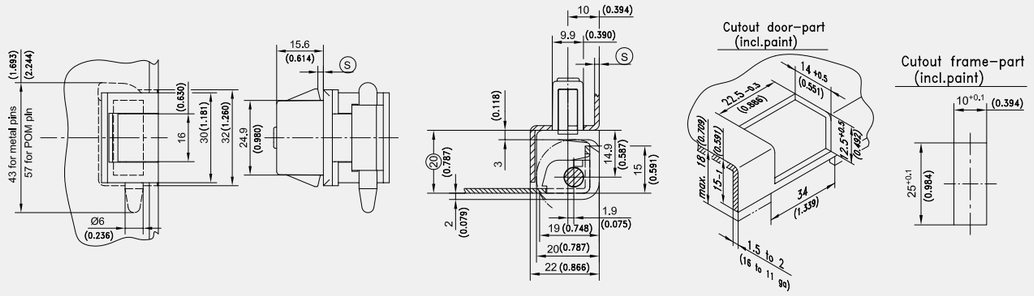
door bending 20mm, Lift-off

Advantages

- 180° Hinge for surface mounted door for single cabinets.
- RH and LH application.
- Installation of the frame-part by simple tool-less push into the cutout.
- IP65 according to DIN EN 60529 by using the o-ring.
- **Attention: for light applications only.**

Materials

- **Frame-part and door-part:** zinc die, matt black
- **Pin:** steel, zinc plated, stainless steel AISI 304 or POM
- **Snap wedges:** sintered steel, zinc plated
- **O-Ring:** NBR, black



Hinge

Part Number	Clamping range	Material pin	Pin version	Installation type
412-9059.00-01217	1.2 - 1.7 mm	steel, zinc plated	loose	tool-less
412-9059.00-01722	1.7 - 2.2 mm	steel, zinc plated	loose	tool-less
412-9060.00-01217	1.2 - 1.7 mm	stainless steel AISI 301	loose	tool-less
412-9060.00-01722	1.7 - 2.2 mm	stainless steel AISI 301	loose	tool-less
412-9061.00-01217	1.2 - 1.7 mm	POM	self-locking	tool-less
412-9061.00-01722	1.7 - 2.2 mm	POM	self-locking	tool-less

Accessories

754 292-0403.06-07035 **Cutout-cover**
754 292-0403.06-09005 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

839-3770.40-02120 **O-ring 21 x 2.0mm**

DST Hinge Pr05 180° Stainless steel

[7-152DST]

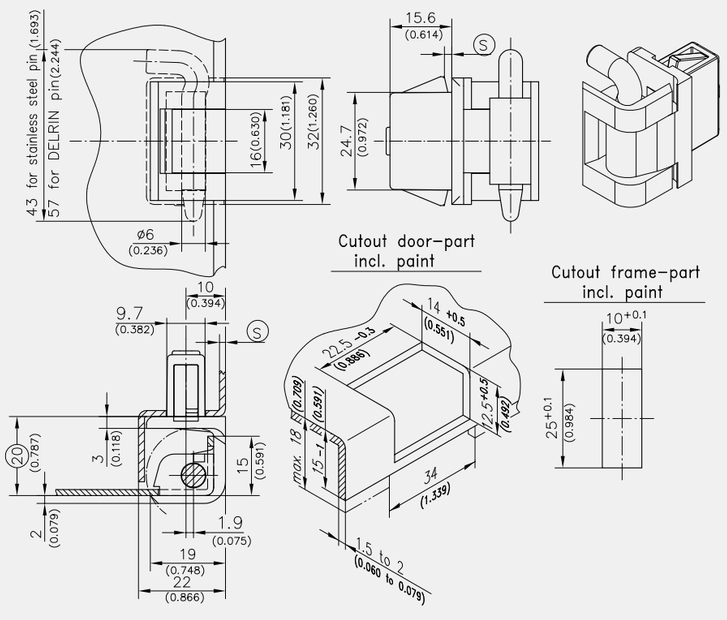


Advantages

- 180° Hinge with DIRAK-SNAP-Technology
- For surface mounted doors for single cabinets.
- Door bending 20mm.
- RH / LH application.
- Tool-less installation.
- IP65 according to DIN EN 60529 by using the O-ring (not included).

Materials

- **Frame-part and door-part:** stainless steel AISI 316
- **Pin:** stainless steel AISI 316 or POM
- **Snap wedges:** stainless steel
- **O-Ring:** NBR, black



Hinge

Part Number	Clamping range	Material pin	Pin version	Pin length L	Pin diameter	Installation type
412-9063.00-01217	1.2 - 1.7 mm	stainless steel	loose	43 mm	6 mm	tool-less
412-9064.00-01217	1.2 - 1.7 mm	POM	self-locking	57 mm	6 mm	tool-less
412-9063.00-01722	1.7 - 2.2 mm	stainless steel	loose	43 mm	6 mm	tool-less
412-9064.00-01722	1.7 - 2.2 mm	POM	self-locking	57 mm	6 mm	tool-less

Accessories

754 292-0403.06-07035 **Cutout-cover**
754 292-0403.06-09005 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

839-3770.40-02120 **O-ring 21 x 2.0mm**

Hinge Pr05 180°

[4-161]



Advantages

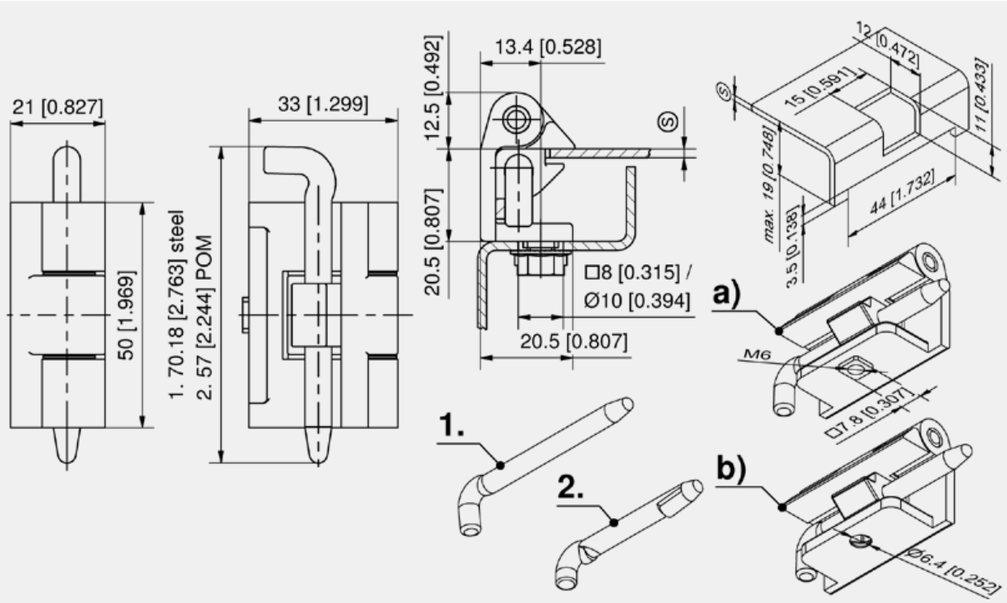
- 180° hinge for surface mounted door.
- RH / LH application.
- Door-bending 20mm.
- 180° opening angle.
- For adjacent cabinet.

Materials

- **Frame-part and door-part:** zinc die, chrome plated or black
- **Washer:** brass, nickel plated
- **Pin:** steel, zinc plated or POM, natural

Remarks

1. pin steel, zinc plated
2. pin POM



Hinge

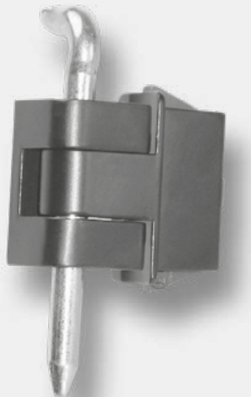
	Part Number	Door-thickness	Material	Version	Material pin	Installation type
a)	212-9025.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	with M6 threaded stubs	steel, zinc plated	screw-on
b)	212-9026.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	with countersunk holes for 6mm	steel, zinc plated	screw-on
a)	212-9033.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	with M6 threaded stubs	POM	screw-on
b)	212-9034.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	with countersunk holes for 6mm	POM	screw-on
a)	212-9027.00-00000	1.5 - 2.0 mm	zinc die, black	with M6 threaded stubs	steel, zinc plated	screw-on
b)	212-9028.00-00000	1.5 - 2.0 mm	zinc die, black	with countersunk holes for 6mm	steel, zinc plated	screw-on
a)	212-9035.00-00000	1.5 - 2.0 mm	zinc die, black	with M6 threaded stubs	POM	screw-on
b)	212-9036.00-00000	1.5 - 2.0 mm	zinc die, black	with countersunk holes for 6mm	POM	screw-on
a)	212-9527.00-00000	2.5 - 3.2 mm	zinc die, black	with M6 threaded stubs	steel, zinc plated	screw-on
b)	212-9528.00-00000	2.5 - 3.2 mm	zinc die, black	with countersunk holes for 6mm	steel, zinc plated	screw-on
a)	212-9535.00-00000	2.5 - 3.2 mm	zinc die, black	with M6 threaded stubs	POM	screw-on
b)	212-9536.00-00000	2.5 - 3.2 mm	zinc die, black	with countersunk holes for 6mm	POM	screw-on

Accessories

746 6-040 **Serrated Screws**

DST Hinge Pr05 180°

[4-150DST]



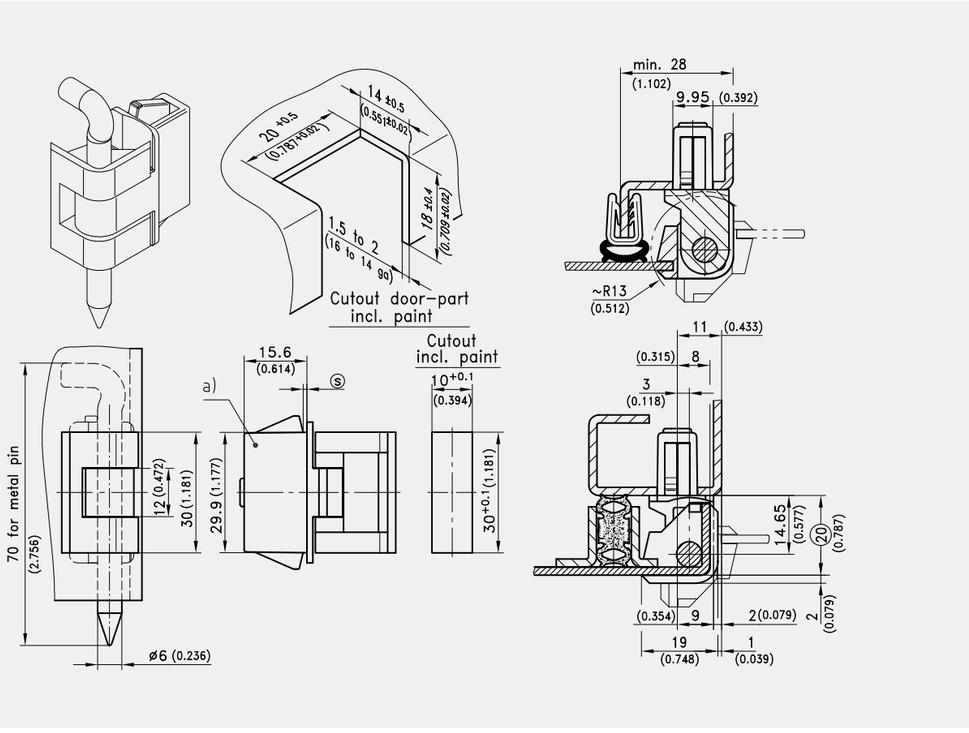
door bending 20mm

Advantages

- 180° hinge for surface mounted door for single cabinets.
- RH and LH application.
- The door-part has 2 stubs, keeping it in position during mounting of the pin.
- Installation tool-less by simple push into the cutout.
- 180° Opening angle.

Materials

- **Frame-part and door-part:** zinc die, matt black
- **Snap wedges:** sintered steel



Hinge, clip-in

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	412-9101.00-00015	1.2 - 1.7 mm	steel, zinc plated	loose	tool-less
a)	412-9101.00-00020	1.7 - 2.2 mm	steel, zinc plated	loose	tool-less
a)	412-9101.00-00025	2.2 - 2.7 mm	steel, zinc plated	loose	tool-less
a)	412-9101.00-00030	2.7 - 3.2 mm	steel, zinc plated	loose	tool-less

Accessories

755 292-0702.15-01030 **Reinforcement plate for cutout**
754 292-0401.00-03010 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Hinge Pr05 180°

[4-160]



Advantages

- 180° Hinge for surface mounted door.
- RH / LH application.
- Door-bending 20mm.
- 180° Opening angle even with adjacent doors.
- This hinge is completely interchangeable with the hinge on product system 4-150.
- The POM pin is self-locking.
- **Attention:** The shifted pivot-point gives a larger radius.

Materials

a), a1) and a2)

- **Frame-part and door-part:** zinc die, chrome plated or black
- **Pivot:** stainless steel

a)

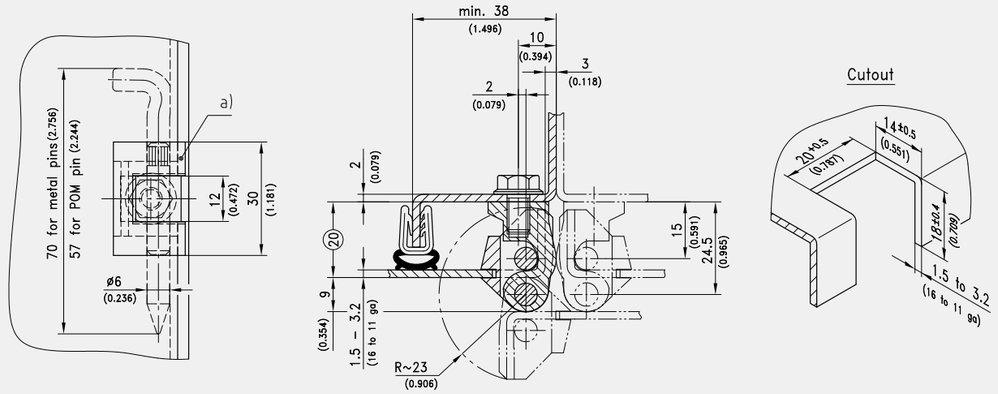
- **Pin:** steel, zinc plated

a1)

- **Pin:** stainless steel

a2)

- **Pin:** POM, natural



Hinge, zinc die, chrome plated

	Part Number	Door-thickness	Material pin	Installation type
a)	212-9007.00-00000	1.5 - 2.0 mm	steel, zinc plated	screw-on
a1)	212-9008.00-00000	1.5 - 2.0 mm	stainless steel	screw-on
a2)	212-9009.00-00000	1.5 - 2.0 mm	POM	screw-on
a)	212-9507.00-00000	2.5 - 3.2 mm	steel, zinc plated	screw-on
a1)	212-9508.00-00000	2.5 - 3.2 mm	stainless steel	screw-on
a2)	212-9509.00-00000	2.5 - 3.2 mm	POM	screw-on

Hinge, zinc die, black

	Part Number	Door-thickness	Material pin	Installation type
a)	212-9010.00-00000	1.5 - 2.0 mm	steel, zinc plated	screw-on
a1)	212-9011.00-00000	1.5 - 2.0 mm	stainless steel	screw-on
a2)	212-9012.00-00000	1.5 - 2.0 mm	POM	screw-on
a)	212-9510.00-00000	2.5 - 3.2 mm	steel, zinc plated	screw-on
a1)	212-9511.00-00000	2.5 - 3.2 mm	stainless steel	screw-on
a2)	212-9512.00-00000	2.5 - 3.2 mm	POM	screw-on

Accessories

746 6-040 **Serrated Screws**

Hinge Pr05 180° Stainless Steel

[7-135]

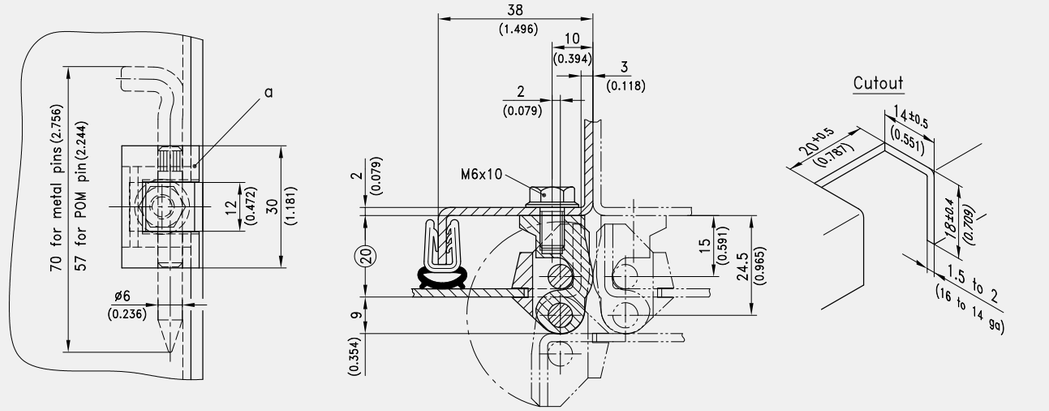


Advantages

- 180° Hinge for surface mounted door.
- RH / LH application.
- Door-bending 20mm.
- 180° Opening angle even with adjacent cabinets.
- The POM pin is self-locking.

Materials

- **Hinge parts:** stainless steel AISI 316
- **Pin:** POM, natural or stainless steel



Hinge

	Part Number	Door-thickness	Material pin	Pin length L	Installation type
a)	212-9701.00-00000	1.5 - 2.0 mm	stainless steel	70 mm	screw-on
a1)	212-9702.00-00000	1.5 - 2.0 mm	POM	57 mm	screw-on

Accessories

746 6-040 **Serrated Screws**

Hinge Pr05 180°

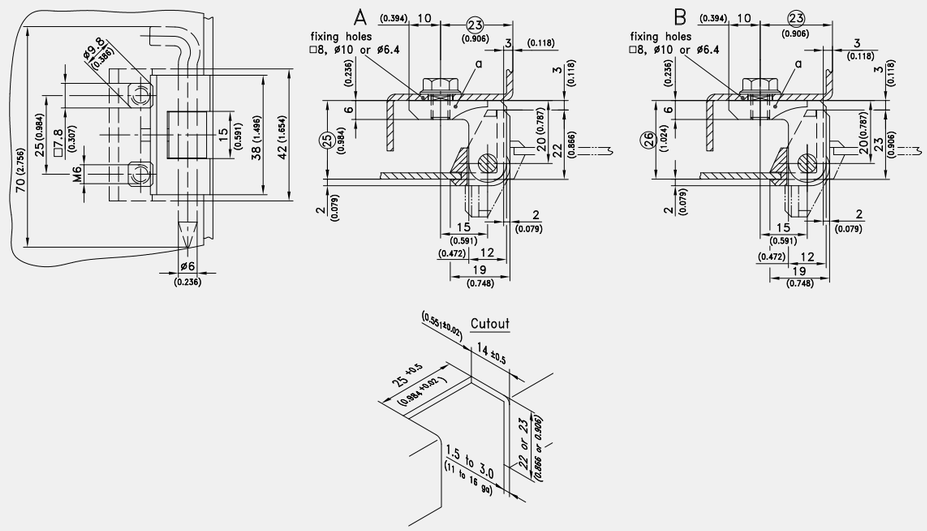


Advantages

- 180° hinge for surface mounted door.
- For single cabinet.
- RH / LH application.
- Door-bending 25mm or 26mm.
- 180° Opening angle.
- With M6 threaded stubs for fastening from inside or Ø6.4mm countersunk holes for fastening from outside.
- This hinge is fully interchangeable with the hinge shown on product system 4-180.
- Version with pin made of stainless steel or POM on request.

Materials

- **Frame-part and Door-part:** zinc die, chrome plated or black
- **Pin:** steel, zinc plated or stainless steel

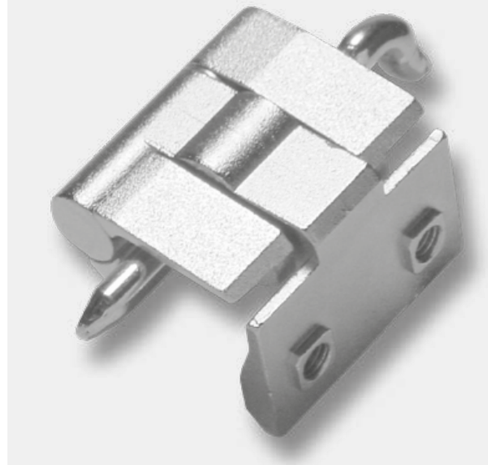


Hinge

	Part Number	Door-thickness	Material	Bending	Version	Material pin	Installation type
A)	212-9013.00-00000	1.5 - 2.0 mm	zinc die, black	25 mm	with M6 threaded stubs	steel, zinc plated	screw-on
A)	212-9014.00-00000	1.5 - 2.0 mm	zinc die, black	25 mm	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on
A)	212-9065.00-00000	1.5 - 2.0 mm	zinc die, black	25 mm	with countersunk holes Ø6.4mm for M6	stainless steel	screw-on
A)	212-9019.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	25 mm	with M6 threaded stubs	steel, zinc plated	screw-on
A)	212-9020.00-00000	1.5 - 2.0 mm	zinc die, chrome plated	25 mm	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on
B)	212-9513.00-00000	2.5 - 3.2 mm	zinc die, black	26 mm	with M6 threaded stubs	steel, zinc plated	screw-on
B)	212-9514.00-00000	2.5 - 3.2 mm	zinc die, black	26 mm	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on
B)	212-9519.00-00000	2.5 - 3.2 mm	zinc die, chrome plated	26 mm	with M6 threaded stubs	steel, zinc plated	screw-on
B)	212-9520.00-00000	2.5 - 3.2 mm	zinc die, chrome plated	26 mm	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on

Accessories
746 6-040 **Serrated Screws**

Hinge Pr05 180°

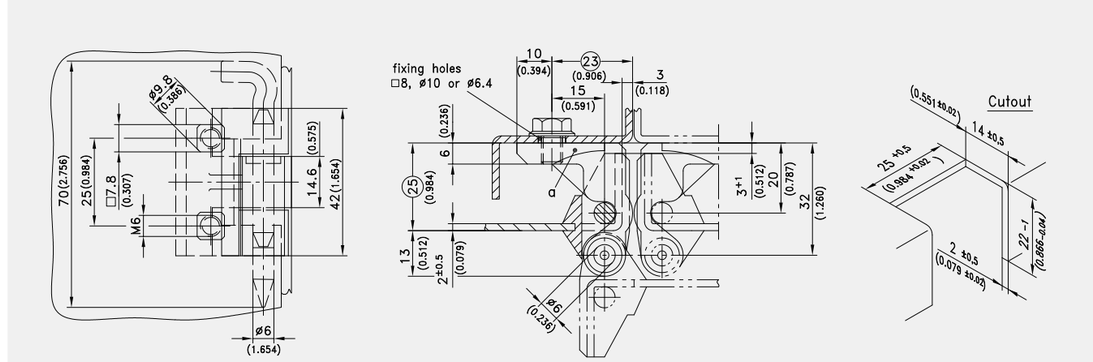


Advantages

- 180° hinge for surface mounted door.
- With 90° lift-off.
- For adjacent cabinets.
- RH and LH version.
- Door-bending 25mm.
- 180° Opening angle.
- With M6 threaded stubs for fastening from inside or Ø6.4mm countersunk holes for fastening from outside.
- The hinge is designed for an easy fastening to the door.
- This hinge is fully interchangeable with the hinge shown on product system 4-170.
- Hinges for door-thickness > 2mm see product system 4-183.

Materials

- **Frame-part and door-part:** zinc die, chrome plated or black
- **Pin:** stainless steel
- **Pin:** steel, zinc plated



Hinge, RH

	Part Number	Material	Version	Material pin	Installation type
a)	212-9015.00-00000	zinc die, black	with M6 threaded stubs	steel, zinc plated	screw-on
a1)	212-9016.00-00000	zinc die, black	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on
a)	212-9021.00-00000	zinc die, chrome plated	with M6 threaded stubs	steel, zinc plated	screw-on
a1)	212-9022.00-00000	zinc die, chrome plated	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on

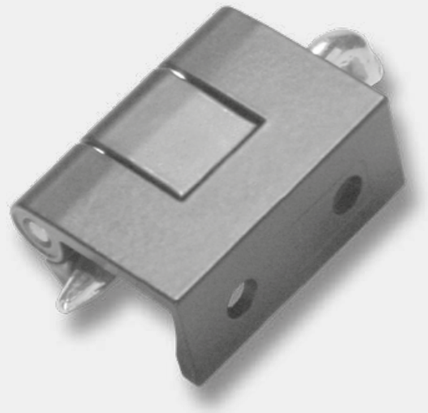
Hinge, LH

	Part Number	Material	Version	Material pin	Installation type
a)	212-9017.00-00000	zinc die, black	with M6 threaded stubs	steel, zinc plated	screw-on
a1)	212-9018.00-00000	zinc die, black	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on
a)	212-9023.00-00000	zinc die, chrome plated	with M6 threaded stubs	steel, zinc plated	screw-on
a1)	212-9024.00-00000	zinc die, chrome plated	with countersunk holes Ø6.4mm for M6	steel, zinc plated	screw-on

Accessories
746 6-040 **Serrated Screws**

Hinge Pr05 180°

[4-185]



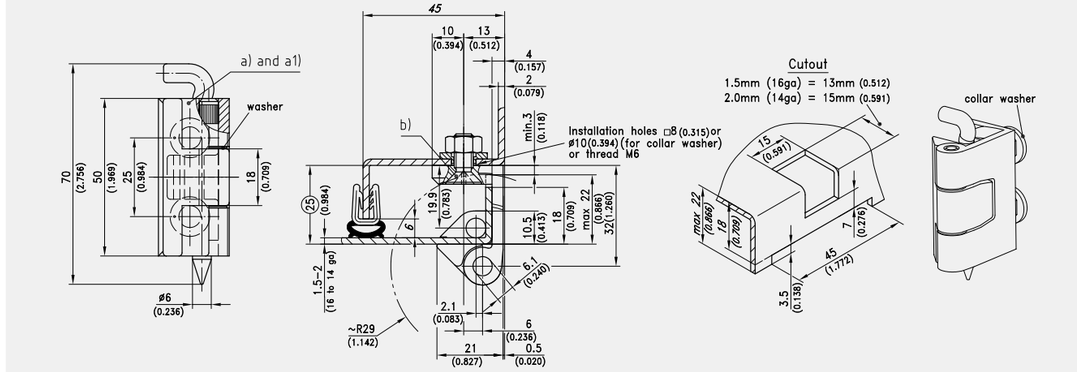
for adjacent cabinets, door bending 25mm

Advantages

- 180° Hinge for surface mounted door.
- RH or LH application.

Materials

- **Frame-part and door-part:** zinc die, chrome plated or black
- **Washer:** brass, nickel plated
- **Pin:** steel, zinc plated
- **Collar washer:** steel, zinc plated



Hinge, zinc die, black

	Part Number	Version	cutout in frame	Material pin	Installation type
a)	212-9037.00-00000	with countersunk holes+collar washer	□8 or Ø10	steel, zinc plated	screw-on
a1)	212-9038.00-00000	with countersunk holes M6	Ø6	steel, zinc plated	screw-on

Hinge, zinc die, chrome plated

	Part Number	Version	cutout in frame	Material pin	Installation type
a)	212-9050.00-00000	with countersunk holes+collar washer	□8 or Ø10	steel, zinc plated	screw-on
a1)	212-9088.00-00000	with countersunk holes M6	Ø6	steel, zinc plated	screw-on

Accessories

746 6-040 **Serrated Screws**

DST Hinge Pr05 180°

[4-161DST]

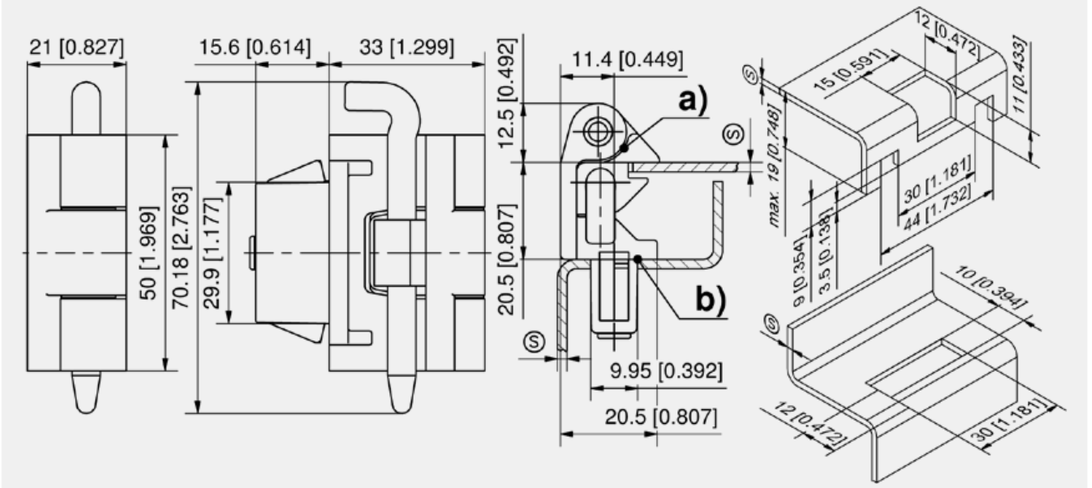


Advantages

- 180° hinge with DIRAK-SNAP-Technology
- For surface mounted doors for adjacent cabinets.
- RH / LH application.
- 180° also with adjacent doors/ hinges.
- Closed cutout.
- Installation of the frame-part by simple tool-less push into the cutout.
- IP65 according DIN EN 60529 by using the o-ring (not included).

Materials

- **Frame-part and door-part:** zinc die, black
- **Pin:** steel, zinc plated
- **Pivot pin:** steel, zinc plated
- **Washers:** brass, nickel plated
- **Snap wedges:** sintered metal, coated



Hinge

	Part Number	Clamping range	Material pin	Pin version	Installation type
a)	412-9003.00-00015	1.2 - 1.7 mm	steel, zinc plated	loose	tool-less
a)	412-9003.00-00020	1.7 - 2.2 mm	steel, zinc plated	loose	tool-less
a)	412-9003.00-00025	2.2 - 2.7 mm	steel, zinc plated	loose	tool-less
a)	412-9003.00-00030	2.7 - 3.2 mm	steel, zinc plated	loose	tool-less

Accessories

755 292-0702.15-01030 **Reinforcement plate for cutout**
754 292-0401.00-03010 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

b) 839-3770.00-02022 **O-ring 20 x 2.2mm**

Hinge for Single Cabinet Pr05 180°

[4-155]



Advantages

- For surface mounted doors.
- Hinge semi-concealed.
- Door bending 25mm.
- RH / LH application.
- 180° Opening angle.
- Lift-off of the door by swiping the door-part to the middle of the door.
- Door-part clicks into the end position audible and visible.

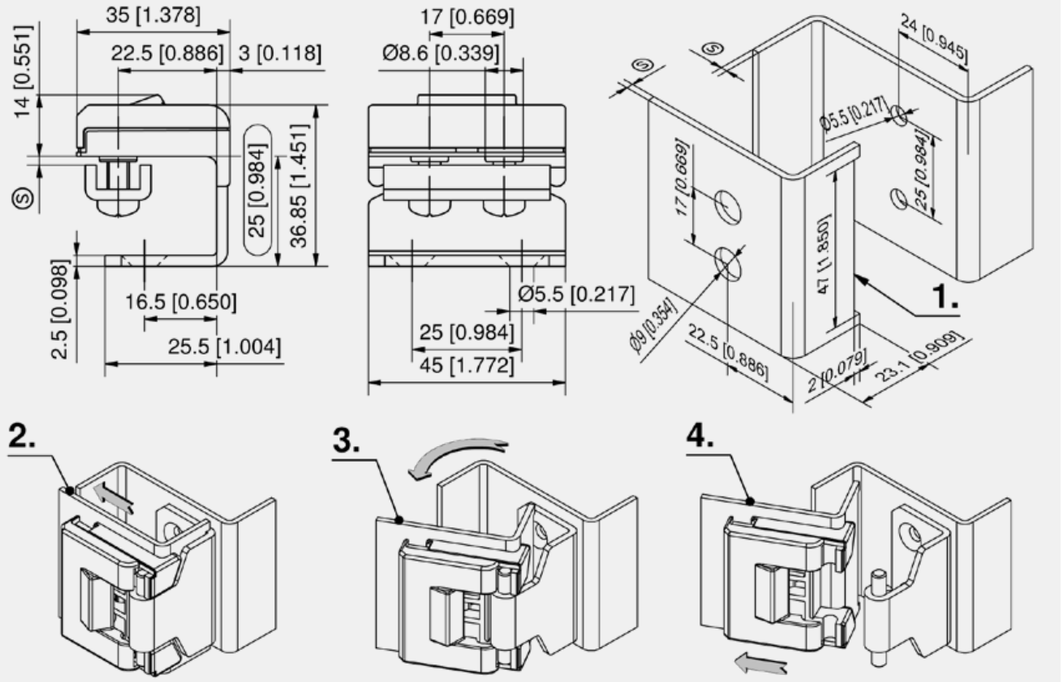
Materials

- **Door-part:** zinc die, black
- **Frame-part:** steel, black
- **Bridge, screws, pin:** steel, zinc plated

Remarks

Fastening screws for the door-part **included**

1. notch
2. disengage
3. hinge must be opened 30°
4. hinge disengage

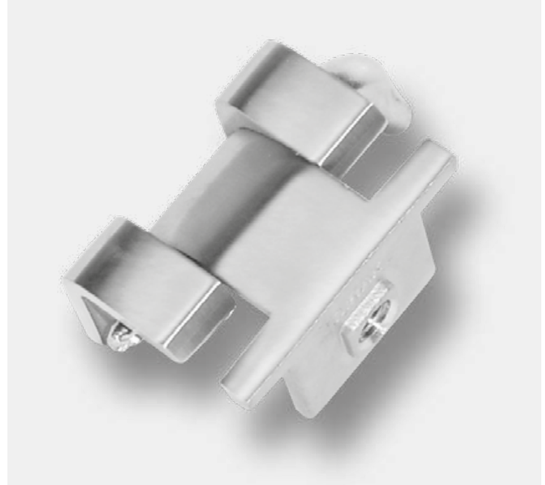


Hinge

Part Number	Pin version	Installation type
212-9092.00-00000	captive	screw-on

Hinge Pr05 180° Stainless Steel

[7-136]

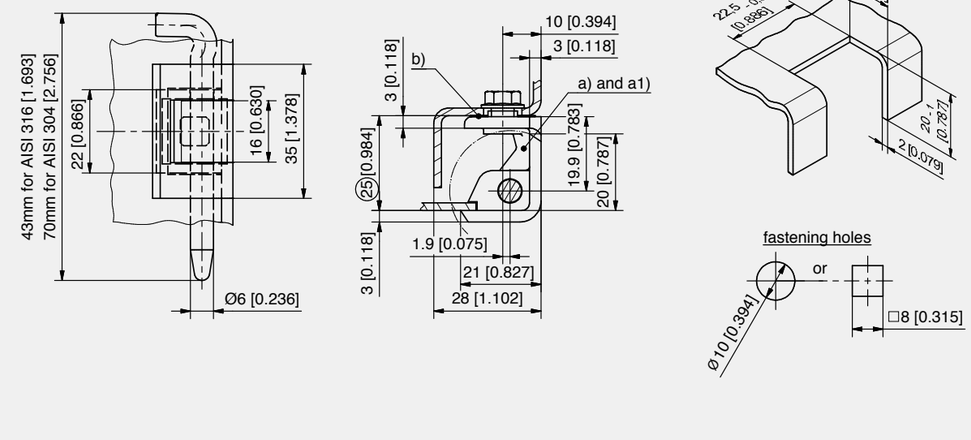


Advantages

- 180° Hinge for surface mounted doors for single cabinets.
- RH / LH application.
- Door-bending 25mm.
- 180° Opening angle.
- The frame-part has a M6 threaded square stub for installation from inside.
- The frame-part has a reinforcement rib.
- IP65 according to DIN EN 60529 by flat external seal b).

Materials

- **Frame-part, bridge and pin:** stainless steel AISI 316



Hinge

	Part Number	Door-thickness	Material pin	Pin version	Pin length L	Ø Pin d
a)	212-9712.00-00000	2 mm	stainless steel AISI 301	loose	43 mm	6 mm
	212-9715.00-00000	2 mm	stainless steel AISI 316	loose	70 mm	6 mm

Accessories

c) 746 6-040 **Serrated Screws**

Function extension

b) 212-0425.00-00000 **Flat external seal for 7-136**

Hinge Pr05 180°



Lift-off

Advantages

- For surface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door-bending 25mm.
- RH / LH application.
- 180° Opening angle.
- For heavy duty applications.
- The door can be lifted-off by losening the screw of the lower (bottom) part, which than can be slight dow-nwards.
- Horizontal adjusting feature by sliding adjusting bushings.

Materials

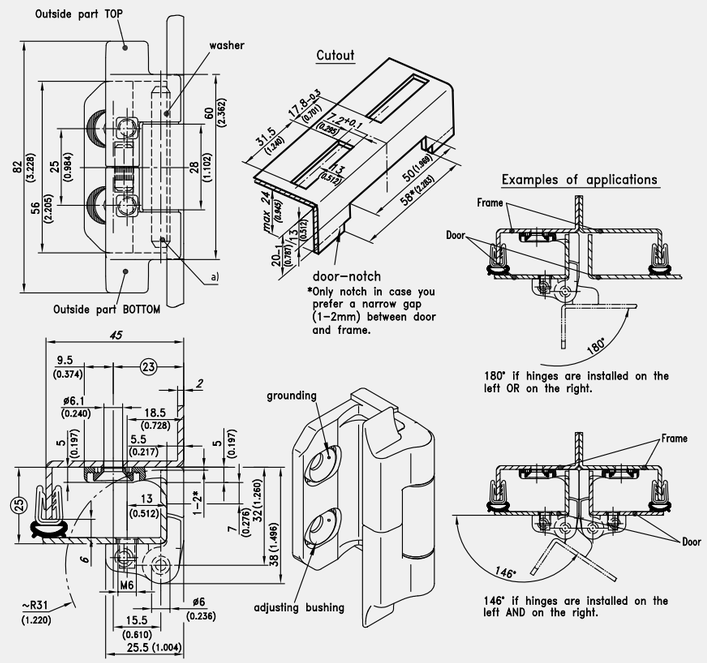
- **Frame-part and door-part:** zinc die, black
- **Pin:** steel, zinc plated
- **Washer:** brass, nickel plated

Remarks

Only notch in case you prefer a narrow gap 1-2 mm between door and frame.

180° if hinges are installed on the left **or** on the right.

146° if hinges are installed on the left **and** on the right.



Hinge

	Part Number	Adjustment direction	Material pin	Installation type
a)	212-9308.00-00000	Width	steel, zinc plated	screw-on

Hinge Pr05 180°



Advantages

- For suface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door-bending 25mm.
- For RH/ LH application.
- 180° Opening angle.
- Easy lift-off through oblong holes (2.).
- Hinge fitting from inside and outside.
- Frame holes layout is also suitable for mounting dual hooks as on product system 3-170 and 3-910 shown allowing reversibility of door.
- Hinges are supplied including fastening material (5.).

Materials

- **Frame-part and door-part:** zinc die, black
- **Pin:** steel, zinc plated
- **Washer:** brass
- **Fastening washer:** steel, zinc plated

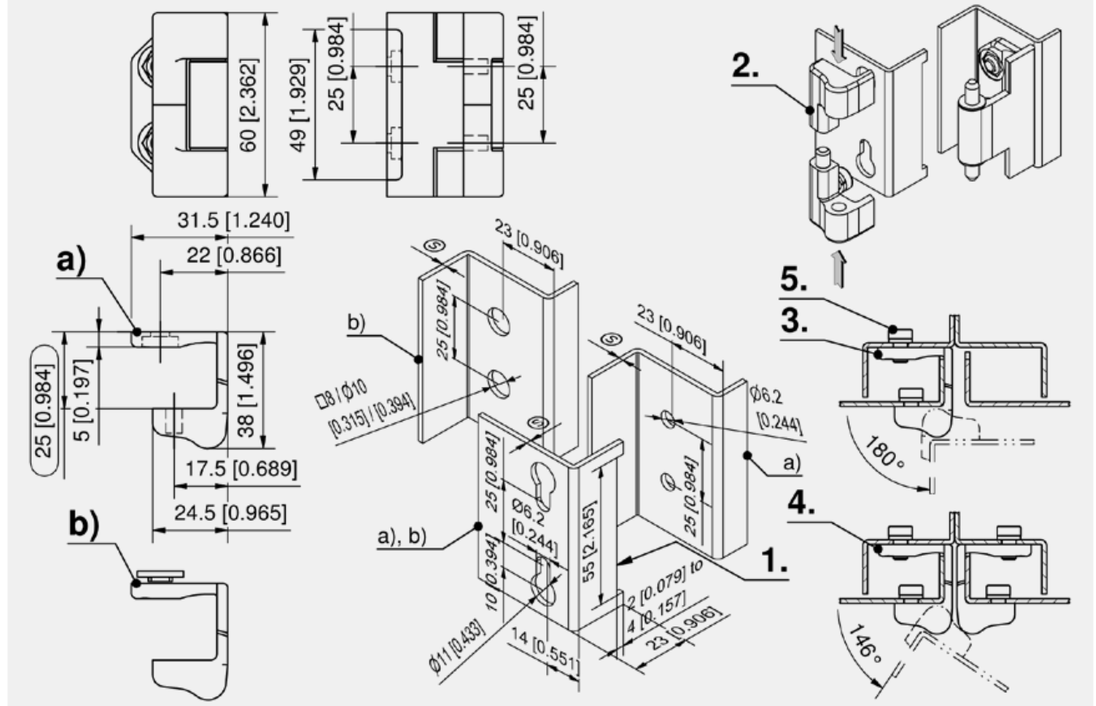
Remarks

1. Possible notching in the door for a gap of approx. 1-2mm between door and frame.

b. option b) with fastening wash-her for holes □8 or Ø10.

3. 180° opening angle attached to LH **or** RH hinges.

4. 146° opening angle attached to LH **and** RH hinges.

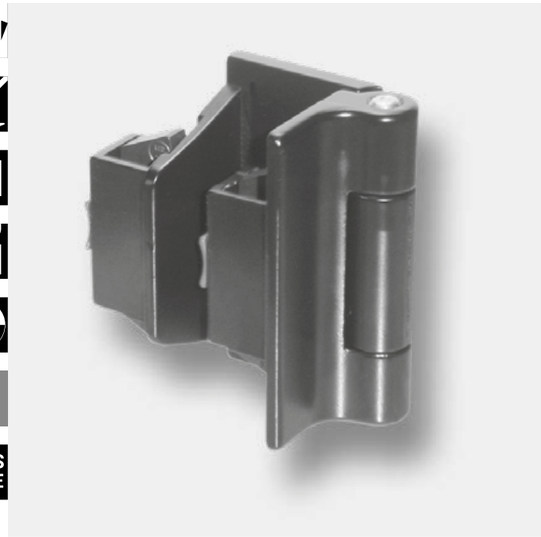


Hinge

	Part Number	Version	Material pin	Pin version	Installation type
a)	212-9302.00-00000	without fastening washer	steel, zinc plated	pressed in	screw-on
b)	212-9303.00-00000	with fastening washer	steel, zinc plated	pressed in	screw-on

DST Hinge Pr05 180°

[4-182.01DST]



Advantages

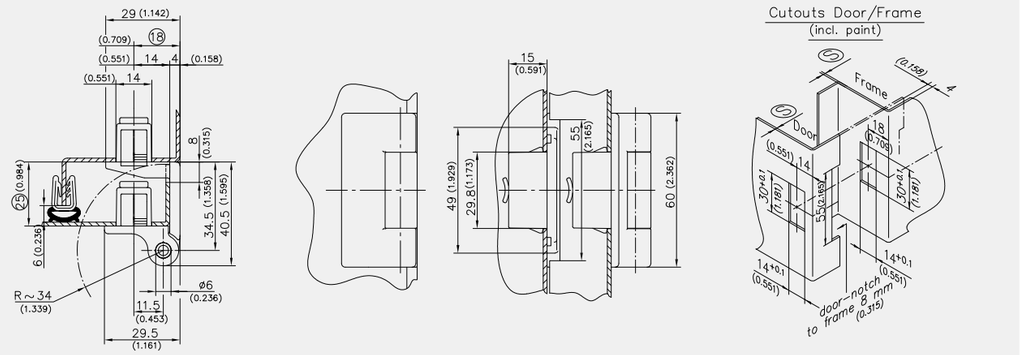
- Hinge with DIRAK-SNAP-Technology for adjacent cabinets.
- Tool-less installation of door-part and frame-part.
- For surface mounted doors.
- Hinge partly visible.
- 180° Opening angle.
- Door bending 25mm.
- Dual hook with DIRAK-SNAP-Technology see product system 3-910DST.
- IP65 according to DIN EN 60529 by using the o-ring (not included).

Materials

- **Frame-part:** zinc die, black
- **Door-part:** zinc die, black
- **Snap wedges:** sintered metal, coated
- **Pin:** stainless steel
- **Washer:** brass

Remarks

Door notch in case you prefer a narrow gap 1-2 mm between door and frame.



Hinge, material-thickness door/frame different e.g.

Part Number	Clamping range door-part (S)	Clamping range frame-part (S)	Material pin	Pin version	Installation type
412-8001.00-01525	1.2 - 1.7 mm	2.2 - 2.7 mm	stainless steel	pressed in	tool-less

Hinge, material-thickness door/frame identical e.g.

Part Number	Clamping range	Material pin	Pin version	Installation type
412-9001.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less
412-9001.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less
412-9001.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less
412-9001.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less
412-9001.00-00035	3.2 - 3.7 mm	stainless steel	pressed in	tool-less

Accessories

755 292-0701.15-01530 **Reinforcement plate for cutout**
754 292-0402.00-03014 **Cutout-cover**
756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

200-1005.00-02420 **O-ring 24 x 2.0mm**

DST Hinge Pr05 180°

[4-182.02DST]



Advantages

- For surface mounted doors.
- Hinge partly visible.
- Door bending 25mm.
- Frame-part snap-in, tool-less.
- Door-part screw-on.
- Due to an enlarged oblong hole, the doors are easy to lift-off.
- By an identical hole pattern in the frame the hinges can be replaced by dual hooks of product system 3-910DST.
- IP65 according to DIN EN 60529 by using o-ring.
- 180° opening angle if hinges are installed on the right **or** on the left.
- 140° opening angle if hinges are installed on the right **and** on the left.

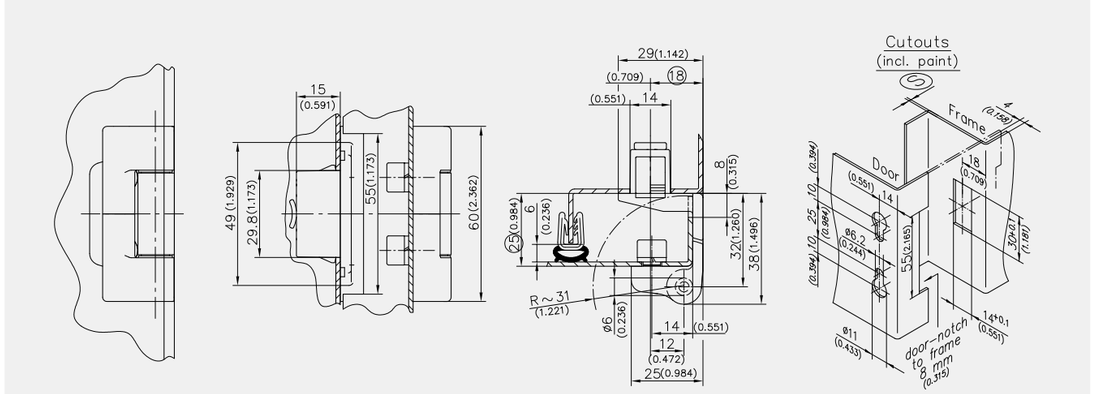
Materials

- **Frame-part:** zinc die, black
- **Door-part:** zinc die, black
- **Snap wedges:** sintered metal, coated
- **Pin Ø6x15:** stainless steel
- **Pin Ø6x50:** steel, zinc plated
- **Washers:** brass, nickel plated
- **Socket cylinder screws:** steel, zinc plated
- **Spring washers:** steel, zinc plated

Remarks

Door notch in case you prefer a narrow gap 1-2 mm between door and frame

2 socket cylinder screws M6x10 DIN 7984 and 2 spring washers DIN 7980 are included.



Hinge

Part Number	Clamping range	Pin version	Installation type
412-9002.00-00015	1.2 - 1.7 mm	pressed in	tool-less / screw-on
412-9002.00-00020	1.7 - 2.2 mm	pressed in	tool-less / screw-on
412-9002.00-00025	2.2 - 2.7 mm	pressed in	tool-less / screw-on
412-9002.00-00030	2.7 - 3.2 mm	pressed in	tool-less / screw-on
412-9002.00-00035	3.2 - 3.7 mm	pressed in	tool-less / screw-on

Accessories

755 292-0701.15-01530 **Reinforcement plate for cutout**
754 292-0402.00-03014 **Cutout-cover**
756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

200-1005.00-02420 **O-ring 24 x 2.0mm**

DST Hinge Pr05 180°

[4-182.03DST]



Advantages

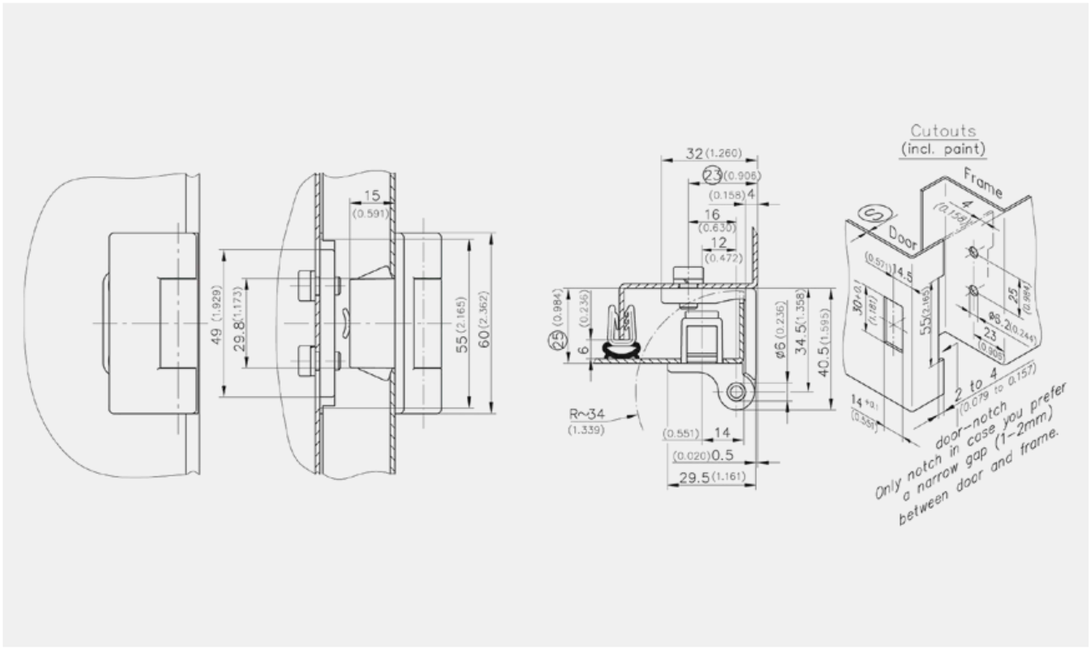
- For surface mounted doors.
- Hinge partly visible.
- Door bending 25mm.
- 180° Opening angle.
- Door-part snap-in, tool-less.
- Frame-part screw-on.
- Dual hook see product system 3-910 and 3-170.
- Fastening material included.

Materials

- **Frame- and door-part**: zinc die, black
- **Snap wedges:** sintered metal, coated
- **Pin Ø6x60:** stainless steel
- **Washers:** brass, nickel plated
- **Screws, nuts and spring washers:** steel, zinc plated

Remarks

Door notch in case you prefer a narrow gap 1-2 mm between door and frame.



Hinge

Part Number	Clamping range	Material pin	Pin version	Installation type
412-9004.00-00015	1.2 - 1.7 mm	stainless steel	pressed in	tool-less / screw-on
412-9004.00-00020	1.7 - 2.2 mm	stainless steel	pressed in	tool-less / screw-on
412-9004.00-00025	2.2 - 2.7 mm	stainless steel	pressed in	tool-less / screw-on
412-9004.00-00030	2.7 - 3.2 mm	stainless steel	pressed in	tool-less / screw-on
412-9004.00-00035	3.2 - 3.7 mm	stainless steel	pressed in	tool-less / screw-on

Accessories	
755	292-0701.15-01530 **Reinforcement plate for cutout**
754	292-0402.00-03014 **Cutout-cover**
756	292-0301.15-00000 **Tool for uninstallation**
756	292-0306.80-02530 **Tool for uninstallation**

Hinge Pr05 180°

[4-182.05]



Advantages

- For surface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door bending 25mm.
- RH/ LH application.
- Opening angle 180°.
- Door-part with pre-fitted and captive pin-halves.
- At about 30° door opening the door can be pulled out, after retracting the pin-halves.
- For door installation, the door is inserted into the frame at approx. 30 ° and the hinge pins are pressed in. (2.)
- Frame holes layout is also suitable for mounting dual hooks as on product system 3-170 or 3-910 shown allowing reversibility of door.

Materials

- **Frame-part, door-part and pin:** zinc die, black
- **Detent spring:** spring steel

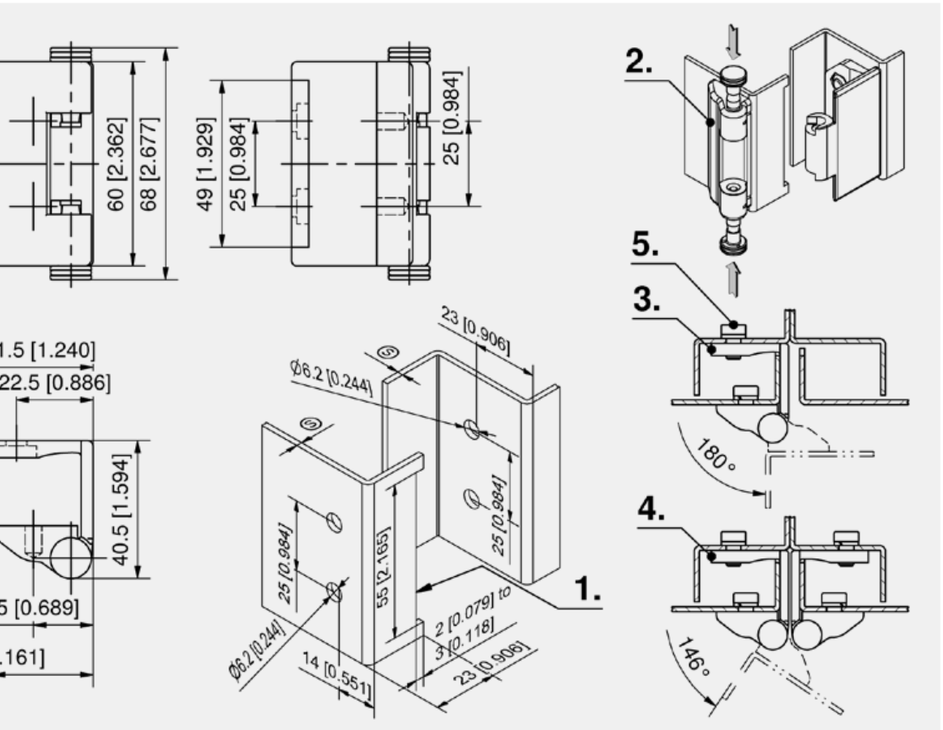
Remarks

1. possible notching in the door for a gap of approx. 1-2mm between door and frame.

3. 180° Opening angle if hinges are installed on the right **or** on the left.

4. 146° Opening angle if hinges are installed on thr right **and** on the left.

5. Fastening (material is included).



Hinge

Part Number	Version	Material pin	Pin version
212-9085.00-00000	Pin two parts	zinc die	captive

DST Hinge Pr05 180°

[4-182.05DST]



Advantages

- Tool-less installation of frame- and door-part.
- For surface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door bending 25mm.
- RH/ LH application.
- Opening angle 180°.
- Door-part with pre-fitted and captive pin-halves.
- At about 30° door opening the door can be pulled out, after retracting the pin-halves.
- For door installation, the door is inserted into the frame at approx. 30 ° and the hinge pins are pressed in.
- IP65 according to DIN EN 60529 by o-ring.

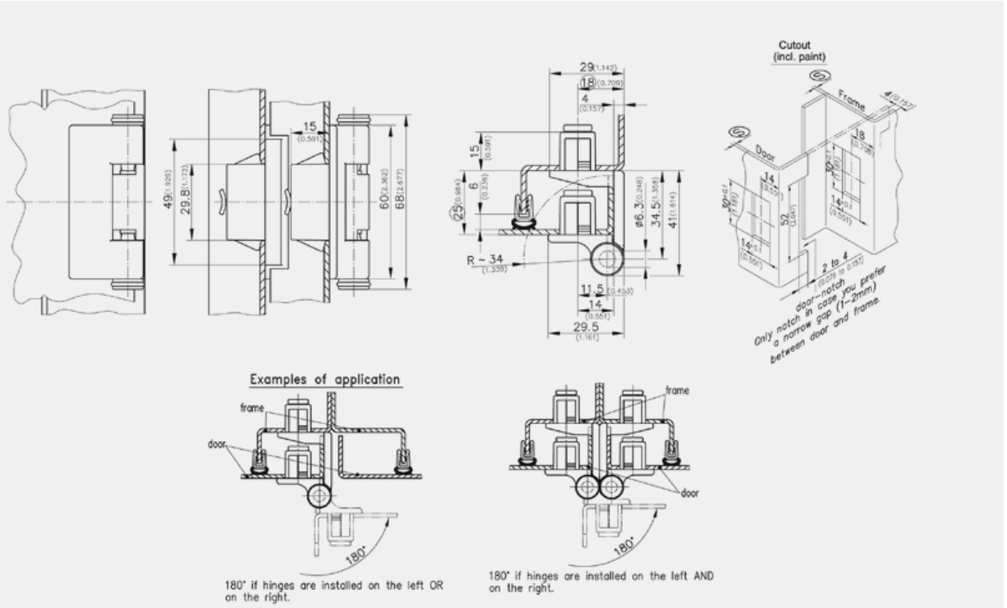
Materials

- **Frame-part, door-part and pin:** zinc die, black
- **Snap wedges:** sintered metal, coated
- **Detent spring:** spring steel

Remarks

Possible notching in the door for a gap of approx. 1-2mm between door and frame.

Frame holes layout is also suitable for mounting dual hooks as on product system 3-910DST shown allowing reversibility of door.



Hinge

Part Number	Clamping range	Material pin	Installation type
412-9020.00-00015	1.2 - 1.7 mm	zinc die	tool-less
412-9020.00-00020	1.7 - 2.2 mm	zinc die	tool-less
412-9020.00-00025	2.2 - 2.7 mm	zinc die	tool-less
412-9020.00-00030	2.7 - 3.2 mm	zinc die	tool-less
412-9020.00-00035	3.2 - 3.7 mm	zinc die	tool-less

Accessories

755 292-0701.15-01530 **Reinforcement plate for cutout**
754 292-0402.00-03014 **Cutout-cover**
756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**

Function extension

200-1005.00-02420 **O-ring 24 x 2.0mm**

DST Hinge Pr05 180°

[4-182.06DST]



Advantages

- Tool-less installation of frame-part.
- For surface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door bending 25mm.
- RH/ LH application.
- 180° Opening angle.
- Door-part with pre-fitted and captive pin-halves.
- At about 30° door opening the door can be pulled out, after retracting the pin-halves.
- For door installation, the door is inserted into the frame at approx. 30° and the hinge pins are pressed in.
- IP65 according to DIN EN 60529 by using the o-ring.

Materials

- **Frame-part, door-part and pin:** zinc die, black
- **Snap wedges:** sintered metal, coated
- **Detent spring:** spring steel

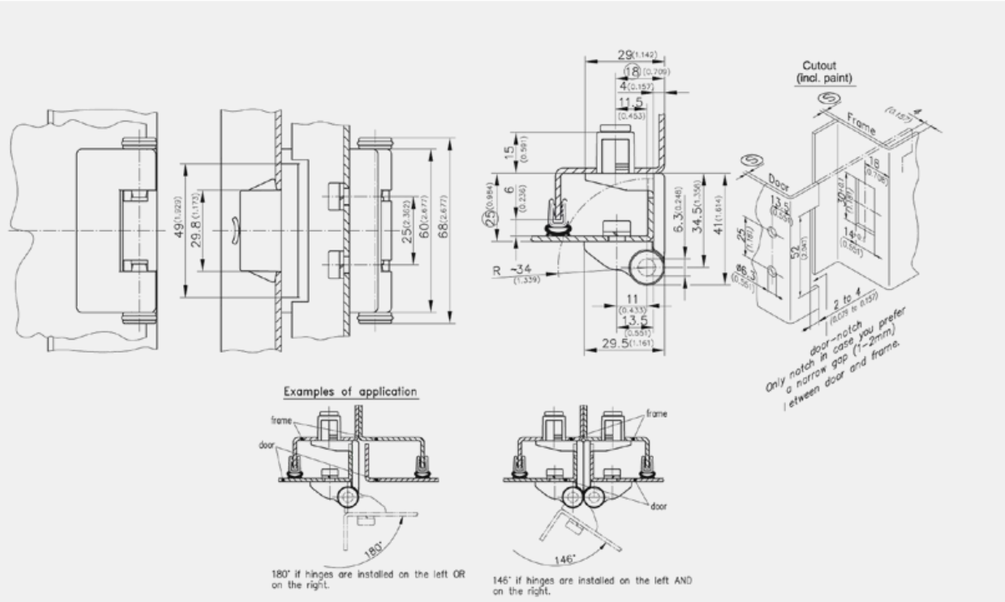
Remarks

Possible notching in the door for a gap of approx. 1-2mm between door and frame.

180° Opening angle if hinges are installed on the right **or** on the left.

146° Opening angle if hinges are installed on thr right **and** on the left.

Frame holes layout is also suitable for mounting dual hooks as on product system 3-910DST shown allowing reversibility of door.



Hinge

Part Number	Clamping range	Material pin	Installation type
412-9062.00-00015	1.2 - 1.7 mm	zinc die	tool-less / screw-on
412-9062.00-00020	1.7 - 2.2 mm	zinc die	tool-less / screw-on
412-9062.00-00025	2.2 - 2.7 mm	zinc die	tool-less / screw-on
412-9062.00-00030	2.7 - 3.2 mm	zinc die	tool-less / screw-on
412-9062.00-00035	3.2 - 3.7 mm	zinc die	tool-less / screw-on

Accessories

755 292-0701.15-01530 **Reinforcement plate for cutout**
754 292-0402.00-03014 **Cutout-cover**

Function extension

200-1005.00-02420 **O-ring 24 x 2.0mm**

Accessories

756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**

DST Hinge Pr05 180°

[4-182.07DST]



Advantages

- Tool-less installation of door-part.
- For surface mounted doors for adjacent cabinets.
- Hinge partly visible.
- Door bending 25mm.
- RH/ LH application.
- Opening angle 180°.
- Door-part with pre-fitted and captive pin-halves.
- At about 30° door opening the door can be pulled out, after retracting the pin-halves.
- For door installation, the door is inserted into the frame at approx. 30 ° and the hinge pins are pressed in.

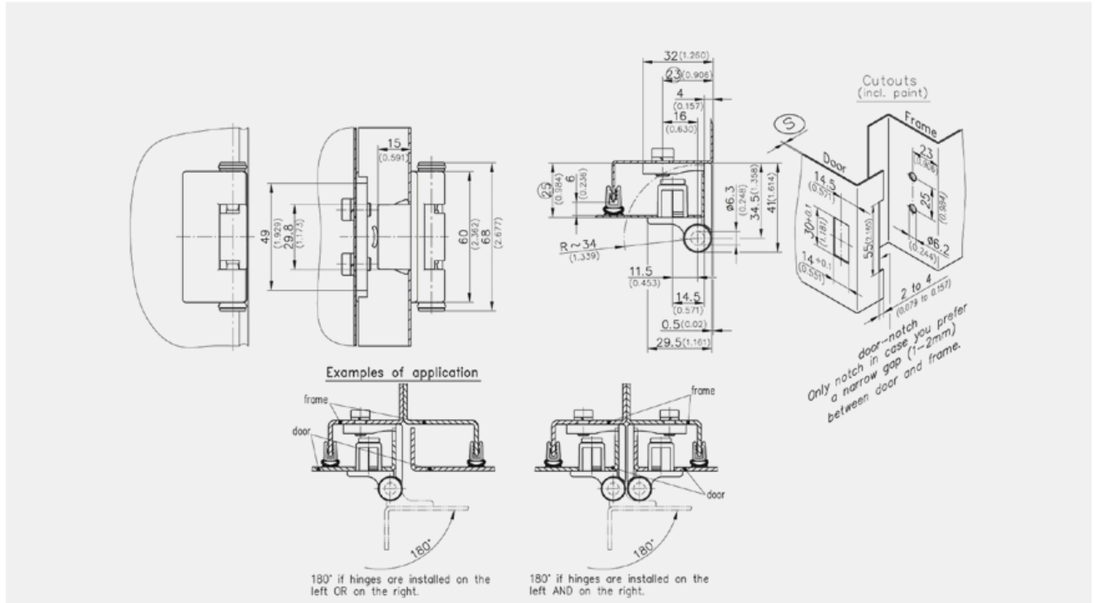
Materials

- **Frame-part, door-part and pin:** zinc die, black
- **Snap wedges:** sintered metal, coated
- **Detent spring:** spring steel

Remarks

Possible notching in the door for a gap of approx. 1-2mm between door and frame.

Frame holes layout is also suitable for mounting dual hooks as on product system 3-170 or 3-910 shown allowing reversibility of door.



Hinge

Part Number	Clamping range	Material pin	Installation type
412-9006.00-00015	1.2 - 1.7 mm	zinc die	tool-less / screw-on
412-9006.00-00020	1.7 - 2.2 mm	zinc die	tool-less / screw-on
412-9006.00-00025	2.2 - 2.7 mm	zinc die	tool-less / screw-on
412-9006.00-00030	2.7 - 3.2 mm	zinc die	tool-less / screw-on
412-9006.00-00035	3.2 - 3.7 mm	zinc die	tool-less / screw-on

Accessories
755 292-0701.15-01530 **Reinforcement plate for cutout**
754 292-0402.00-03014 **Cutout-cover**
756 292-0301.15-00000 **Tool for uninstallation**
756 292-0306.80-02530 **Tool for uninstallation**

Hinge Pr05 180°

[4-183]



Advantages

- 180° hinge for surface mounted door for adjacent cabinets.
- Door is lift-off.
- Door-bending 25mm.
- 180° Opening angle.
- With M6 threaded stubs for fastening from inside, or Ø6.4mm countersunk holes for fastening from outside.
- The optional notch in the bending (dimension 55) is being concealed by the 60mm wide frame-part.
- Door-thickness 4mm.

Materials

a) and a1)

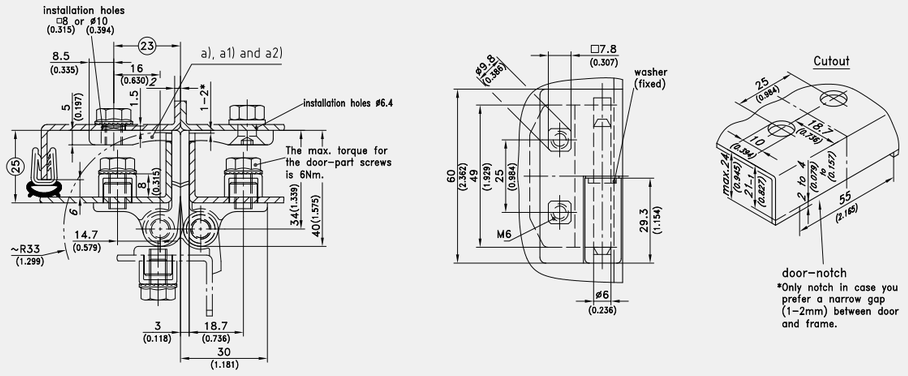
- **Frame-part and door-part**: zinc die, black or chrome plated
- **Pin:** stainless steel
- **Washer:** brass

a2)

- **Door-part:** zinc die, black
- **Frame-part:** steel, black
- **Pin:** stainless steel
- **Washer:** stainless steel

Remarks

Possible notching in the door for a gap of approx. 1-2mm between door and frame.



Hinge, frame- and door-part zinc die

	Part Number	Version	Surface	Frame-part	Material pin	Pin version	Installation type
a)	212-9042.00-00000	RH	chrome plated	with threaded stubs M6	stainless steel	pressed in	screw-on
a1)	212-9043.00-00000	RH	chrome plated	with countersunk holes Ø6.4mm for M6	stainless steel	pressed in	screw-on
a)	212-9044.00-00000	LH	chrome plated	with threaded stubs M6	stainless steel	pressed in	screw-on
a1)	212-9045.00-00000	LH	chrome plated	with countersunk holes Ø6.4mm for M6	stainless steel	pressed in	screw-on
a)	212-9046.00-00000	RH	black	with threaded stubs M6	stainless steel	pressed in	screw-on
a1)	212-9047.00-00000	RH	black	with countersunk holes Ø6.4mm for M6	stainless steel	pressed in	screw-on
a)	212-9048.00-00000	LH	black	with threaded stubs M6	stainless steel	pressed in	screw-on
a1)	212-9049.00-00000	LH	black	with countersunk holes Ø6.4mm for M6	stainless steel	pressed in	screw-on

Hinge, frame-part steel, door-part zinc die, black

	Part Number	Version	Surface	Frame-part	Material pin	Pin version	Installation type
a2)	212-9082.00-00000	RH	black	with holes Ø6.4mm for M6	stainless steel	pressed in	screw-on
a2)	212-9083.00-00000	LH	black	with holes Ø6.4mm for M6	stainless steel	pressed in	screw-on

DST Hinge Pr05 180°

[4-184.01DST]



Advantages

- Tool-less installation of frame- and door-part.
- For surface mounted doors for adjacent cabinets.
- Hinge partly-concealed.
- Door bending 20mm.
- RH and LH version.
- 180° opening angle.
- Door can be lifted-off at 30° opening angle.
- Lift-off safety, the door can't be lifted-off in closed position.
- IP65 according to DIN EN 60529 by flat external seal.

Materials

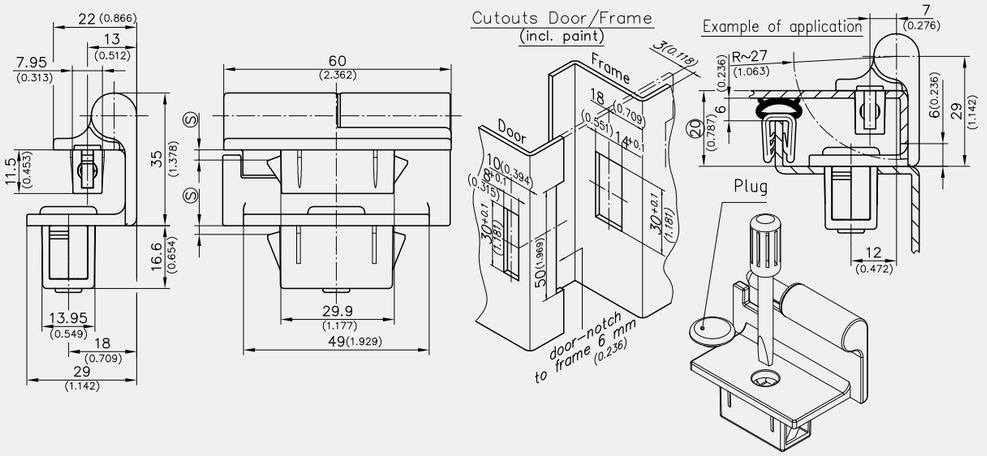
- **Frame-part and door-part:** zinc die, black
- **Snap wedges:** sintered steel
- **Pin and spring:** stainless steel
- **Washer:** brass, nickel plated
- **Plug:** NBR, black

Remarks

For uninstallation of the frame-part remove plug. Frame-part can be disengaged from outside with a screw driver.

Possible notching in the door for a gap of approx. 1-2mm between door and frame.

Attention: If you use the external seal (only neccessary for the frame part), please order a larger clamping range.



Hinge

Part Number	Version	Clamping range door-part (S)	Clamping range frame-part (S)	Material pin	Pin version	Installation type
412-9008.00-01515	RH	1.3 - 2.0 mm	1.4 - 1.7 mm	stainless steel	pressed in	tool-less
412-9008.00-02020	RH	1.8 - 2.5 mm	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
412-9008.00-02523	RH	2.3 - 3.0 mm	2.2 - 2.5 mm	stainless steel	pressed in	tool-less
412-9008.00-03030	RH	2.8 - 3.5 mm	2.8 - 3.1 mm	stainless steel	pressed in	tool-less
412-9009.00-01515	LH	1.3 - 2.0 mm	1.4 - 1.7 mm	stainless steel	pressed in	tool-less
412-9009.00-02020	LH	1.8 - 2.5 mm	1.8 - 2.1 mm	stainless steel	pressed in	tool-less
412-9009.00-02523	LH	2.3 - 3.0 mm	2.2 - 2.5 mm	stainless steel	pressed in	tool-less
412-9009.00-03030	LH	2.8 - 3.5 mm	2.8 - 3.1 mm	stainless steel	pressed in	tool-less

Accessories

755	292-0701.15-01530 **Reinforcement plate for cutout**
755	292-0702.15-01030 **Reinforcement plate for cutout**

Accessories

754	292-0402.00-03014 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Function extension

209-3301.00-00000 **Flat external seal**

DST Hinge Pr05 180°

[4-184.05DST]



Advantages

- Tool-less installation of door-part.
- For surface mounted doors for adjacent cabinets.
- Hinge partly-concealed.
- Door bending 25mm.
- RH and LH version.
- 180° opening angle.
- Door can be lifted-off at 30° opening angle.
- Lift-off safety, the door can't be lifted-off in closed position.

Materials

Door-part: zinc die, black

Frame-part: steel, black

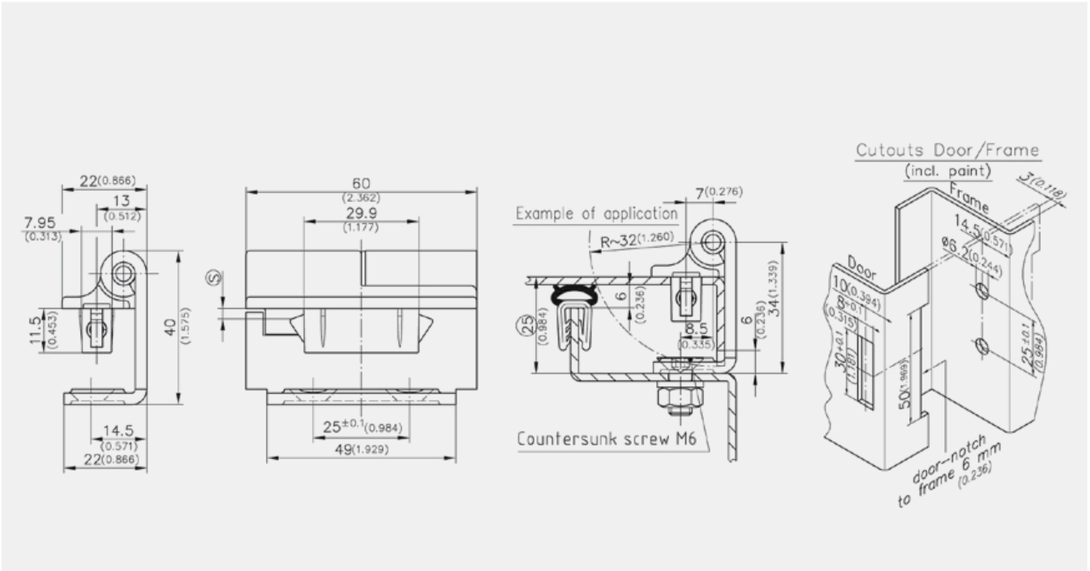
Snap wedges: sintered steel

Pin and spring: stainless steel

Washer: brass, nickel plated

Remarks

Possible notching in the door for a gap of approx. 1-2mm between door and frame.



Hinge, version RH

Part Number	Clamping range door-part (S)	Material pin	Pin version	Installation type
412-9016.00-00015	1.3 - 2.0 mm	stainless steel	pressed in	tool-less / screw-on
412-9016.00-00020	1.8 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on
412-9016.00-00025	2.3 - 3.0 mm	stainless steel	pressed in	tool-less / screw-on
412-9016.00-00030	2.8 - 3.5 mm	stainless steel	pressed in	tool-less / screw-on

Hinge version LH

Part Number	Clamping range door-part (S)	Material pin	Pin version	Installation type
412-9017.00-00015	1.3 - 2.0 mm	stainless steel	pressed in	tool-less / screw-on
412-9017.00-00020	1.8 - 2.5 mm	stainless steel	pressed in	tool-less / screw-on
412-9017.00-00025	2.3 - 3.0 mm	stainless steel	pressed in	tool-less / screw-on
412-9017.00-00030	2.8 - 3.5 mm	stainless steel	pressed in	tool-less / screw-on

Accessories

755	292-0702.15-01030 **Reinforcement plate for cutout**
756	292-0306.80-02530 **Tool for uninstallation**

Detent Hinge 60x60 Pr01 180°

[4-243]

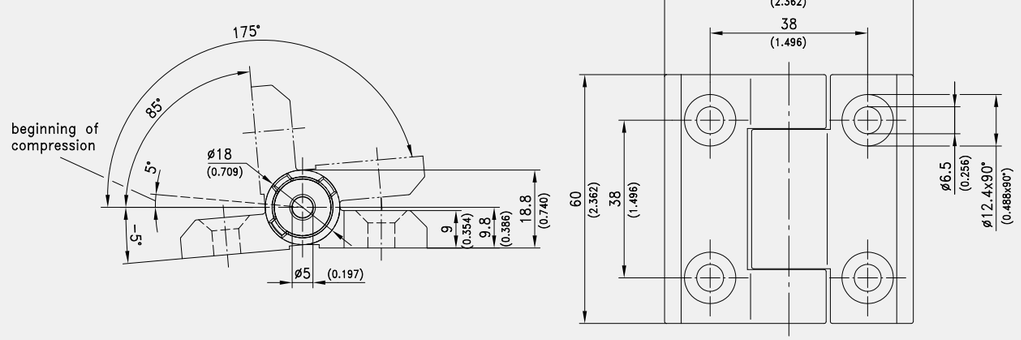


Advantages

- Heavy duty detent Hinge with an opening angle of 180° and latching positions at -5°, 85° and 175°.
- The negative latching position can keep the door firmly shut even against a rubber seal.
- Beginning of compression at a position of approx. 5°.

Materials

- **Hinge halves:** zinc die, black



Detent Hinge

Part Number	Installation type
218-9213.00-00000	screw-on

Detent Hinge Pr01 180° Stainless Steel

[7-222]



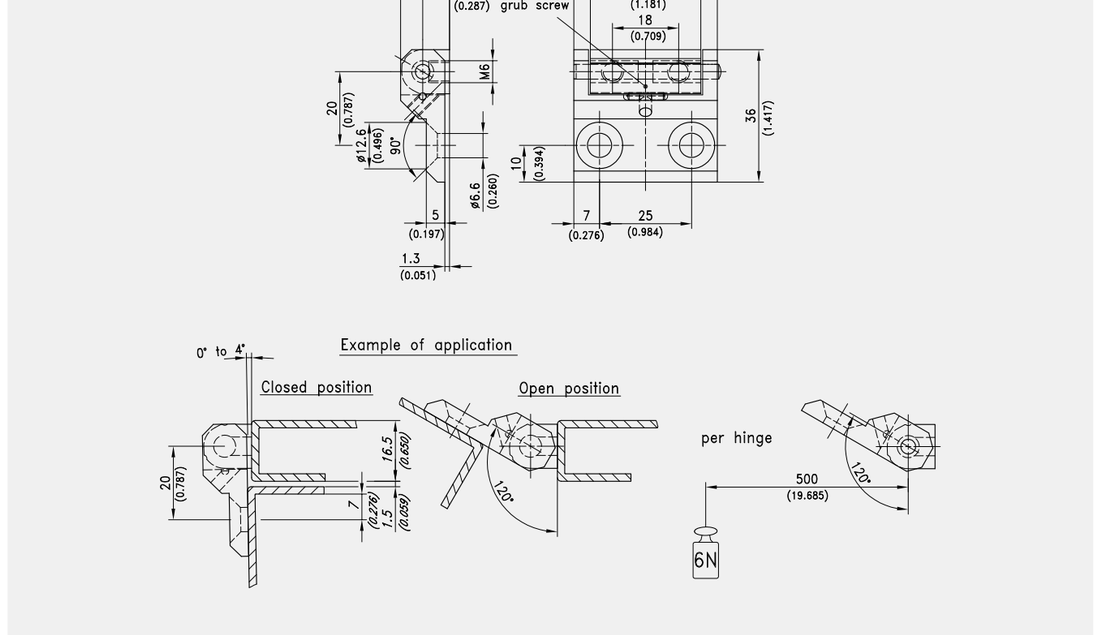
detent, for nested door, stainless steel AISI 440B

Advantages

- Heavy Duty Hinge with an opening angle of 180° and detend position at 120° and 0°.

Materials

- **Frame-part:** stainless steel AISI 440B, untreated, hardened
- **Door-part:** stainless steel AISI 440B, black coated, hardened
- **Pins:** steel hardened



Detent Hinge

Part Number	Version	Width W	Height H	Material pin	Pin version	Installation type
250-9103.00-00000	with detend function	36 mm	39 mm	steel hardened	pressed in	screw-on
250-9104.00-00000	without detent function	36 mm	39 mm	steel hardened	pressed in	screw-on

Torque Hinge Pr01 270°

[4-708]



Advantages

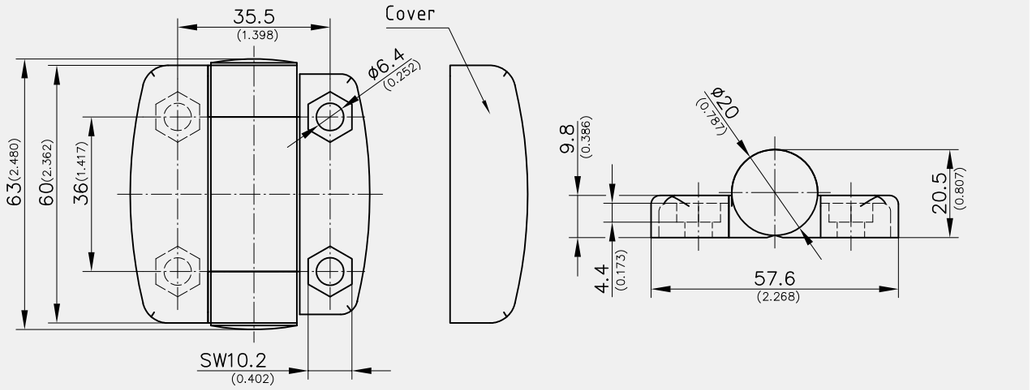
- 270° Hinge with unchanging torque throughout its full range of motion.
- Continuously adjustable torque 0-5Nm. The adjustment of the torque is made with a hexagon socket key size 4 in the hinge shaft.
- The doors may be moved into any position and remain at exactly that position.
- Also usable as coverstays for light duty application.
- Torque adjustable.
- Constant torque throughout its fully range of motion.
- RH and LH application.

Materials

- **Hinge and covers:** PA, black
- **Pin:** stainless steel

Remarks

Installation with hexagon screws or hexagon nuts M6.

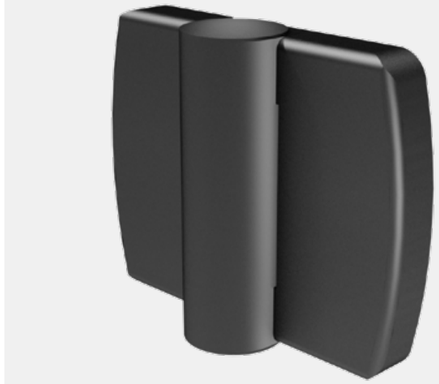


Torque Hinge

Part Number	NM (both directions)	Material pin	Installation type
703-9011.00-00000	0-5	stainless steel	screw-on

Torque Hinge Pr01 270°

[4-709]



Advantages

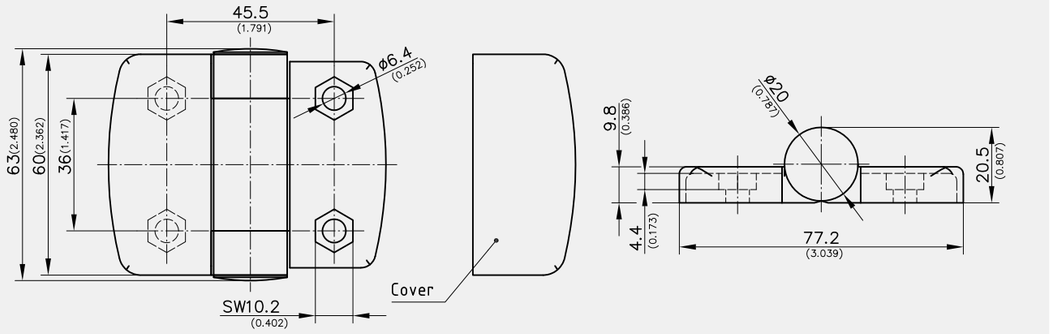
- 270° Hinge with unchanging torque throughout its full range of motion.
- Continuously adjustable torque 0-5Nm. The adjustment of the torque is made with a hexagon socket key size 4 in the hinge shaft.
- The doors may be moved into any position and remain at exactly that position.
- Also usable as coverstays for light duty application.
- Torque adjustable.
- Constant torque throughout its fully range of motion.
- RH and LH application.

Materials

- **Hinge and covers:** PA, black
- **Pin:** stainless steel

Remarks

Installation with hexagon screws or hexagon nuts M6.



Torque Hinge

Part Number	NM (both directions)	Material pin	Pin version	Installation type
703-9012.00-00000	0-5	stainless steel	pressed in	screw-on

Torque Hinge Pr01 270°

[4-701]



Advantages

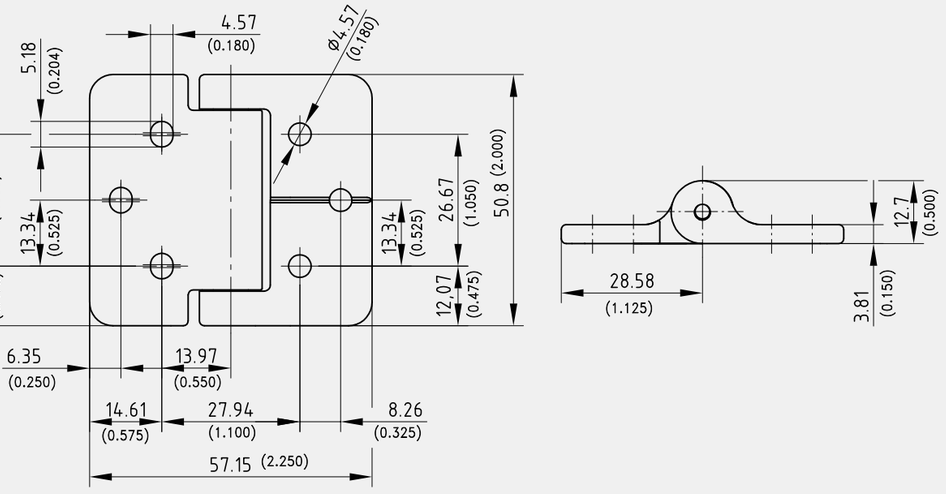
- 270° Hinge with constant torque throughout its full range of motion.
- Without any engagement.
- Springback typically <1°.
- Constant torque throughout its fully range of motion.
- Life of > 20.000 cycles.
- RH / LH application.
- Fastening: for example with M4 screws DIN-EN-ISO 4762.

Materials

- **Housing:** zinc die, black coated
- **Shaft and torque clips:** hardened steel

Remarks

Price and delivery time on request!

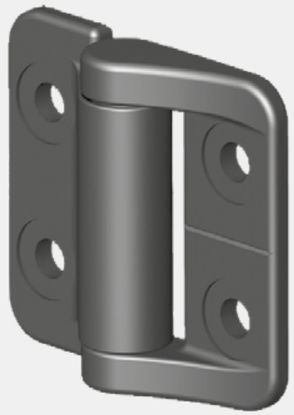


Torque Hinge

Part Number	NM (both directions)	Material pin	Pin version	Installation type
703-9001.00-00120	1,36	steel hardened	pressed in	screw-on
703-9001.00-00200	2,26	steel hardened	pressed in	screw-on

Torque Hinge Pr01 270°

[4-702]



Advantages

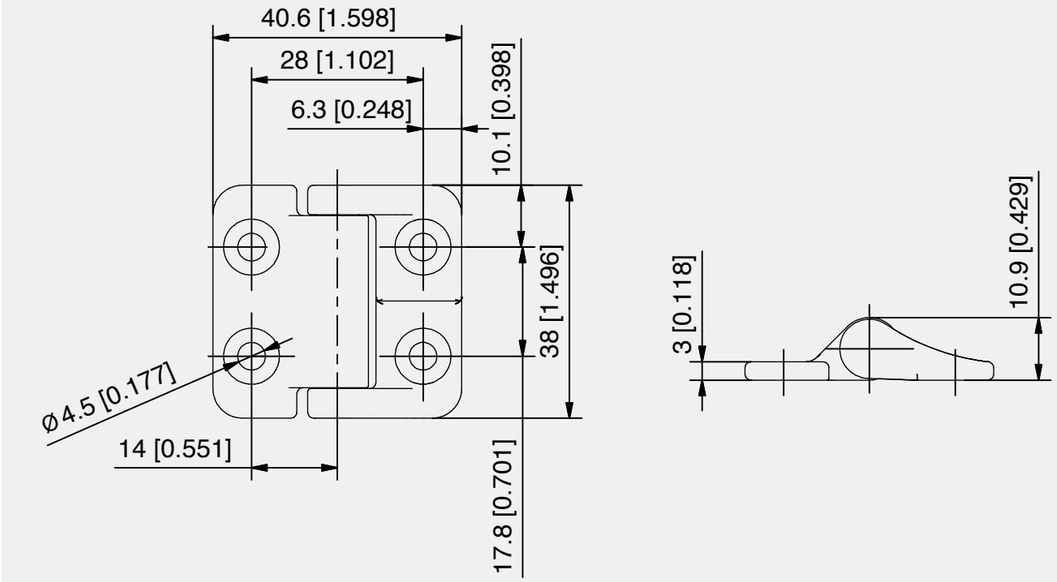
- 270° Hinge with constant torque throughout its full range of motion.
- Without any engagement.
- Springback typically < 1°.
- Constant torque throughout its fully range of motion.
- Life of > 20.000 cycles.
- RH and LH application.
- Fastening: for example with M4 screws DIN-EN-ISO 4762.

Materials

- **Housing:** zinc die, black coated
- **Shaft and torque clips:** hardened steel

Remarks

Price and delivery time on request!

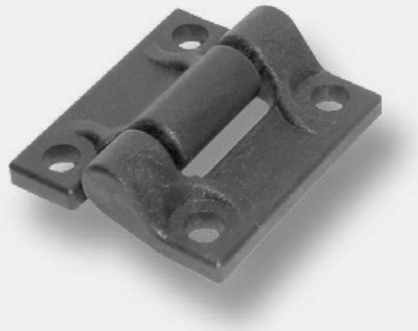


Torque Hinge

Part Number	NM (both directions)	Material pin	Installation type
703-9002.00-00120	1,22	steel hardened	screw-on
703-9002.00-00200	2,01	steel hardened	screw-on

Torque Hinge Pr01 270°

[4-703]



Advantages

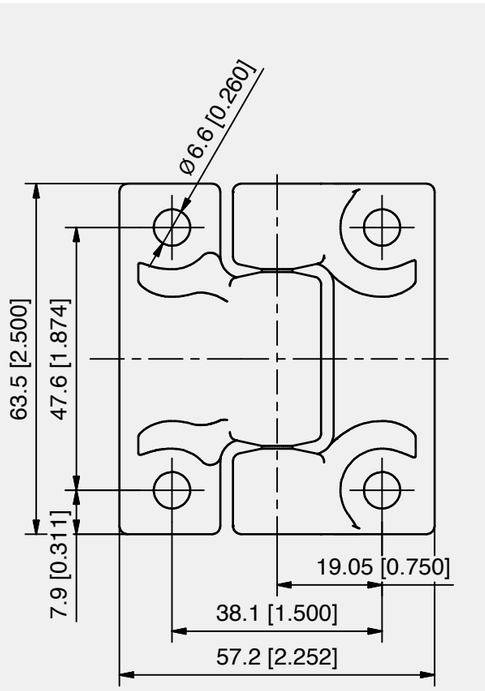
- 270° Hinge with constant torque throughout its full range of motion.
- Without any engagement.
- Springback typically < 1°.
- Constant torque throughout its fully range of motion.
- Life of > 10.000 cycles.
- RH and LH application.
- Fastening: for example with M6 screws DIN-EN-ISO 4762.

Materials

- **Housing:** PA
- **Shaft and torque clips:** hardened steel

Remarks

Price and delivery time on request!



Torque Hinge

Part Number	NM (both directions)	Material pin	Installation type
703-9003.00-00140	1,38	steel hardened	screw-on
703-9003.00-00220	2,16	steel hardened	screw-on

Torque Hinge Pr01 360°

[4-707]



Advantages

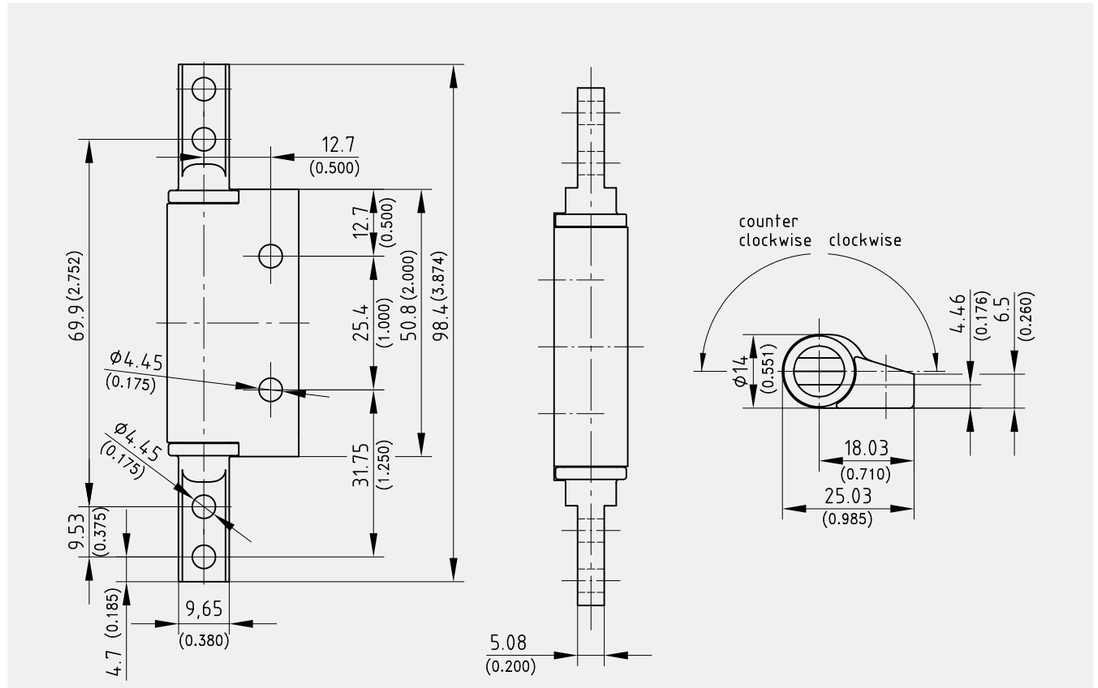
- 360° hinge with constant torque throughout its full range of motion.
- Without any engagement.
- Springback typically < 1°.
- Constant torque throughout its fully range of motion.
- Life of > 20.000 cycles.
- Fastening: for example with M4 screws DIN-EN-ISO 4762.

Materials

- **Frame-part and door-part:** zinc die, black coated
- **Shaft and torque clips:** hardened steel

Remarks

Price and delivery time on request!



Torque Hinge

Part Number	Nm (clockwise)	Nm (counter clockwise)	Material pin	Installation type
703-9010.00-Nm550	3,25	5	steel hardened	screw-on
703-9009.00-Nm550	5	3,25	steel hardened	screw-on

Gaskets

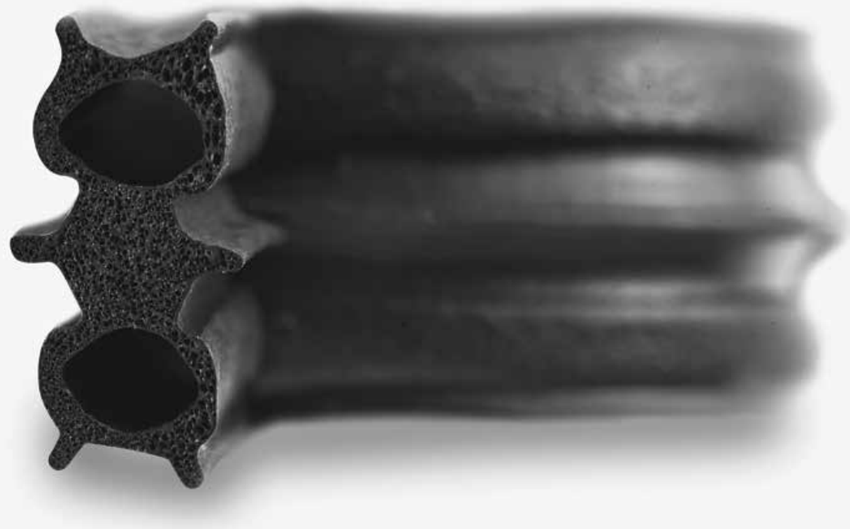


Rounding the corner.

With the radius adapter, you can install gasket profiles around corners, ensuring optimal functionality by eliminating pinch points.

Page 679





Well shielded.

The DIRAK EMI sealing profiles provide electromagnetic shielding for your enclosures.

Page 667



UL Certified Quality.

Products and materials bearing this icon are UL certified and meet the appropriate standards. If you would like more information, please contact us.

Can‘t go wrong!

Due to the symmetric design of the profile, it can‘t be installed backwards and guarantees a secure fit and tight seal.

Page 658

Gaskets by Mounting Type

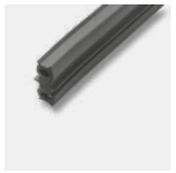
Self-clamping

Page: **658–659, 664–677**

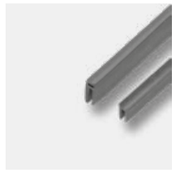
Self-adhesive

Page: **660–663**

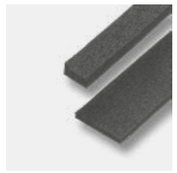
Overview



658 Four Lips Channel Sealing Profile EPDM [5-100]



659 Self-clamping Profiles EPDM [5-110.01]



660 Rectangular Seals EPDM / CR [5-120]



661 Rectangular Seals EPDM / CR [5-125]



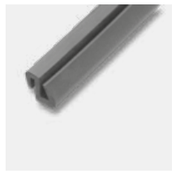
662 Round- and Castellated Profiles EPDM / CR [5-127]



664 Window Seals EPDM [5-130]



665 Window Seal EPDM [5-131]



666 Window Seals EPDM / NBR [5-140]



667 RFI Sealing Profiles Clip-on [5-149]



668 Clip-on Sealing Profiles EPDM / NBR [5-150]



669 Clip-on Sealing Profiles EPDM / NBR [5-151]



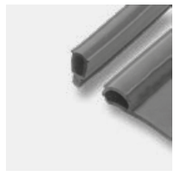
670 Clip-on Sealing Profiles EPDM [5-152]



671 Clip-on Sealing Profiles PVC / EPDM [5-153]



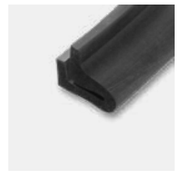
672 Clip-on Sealing Profiles PVC / EPDM [5-154]



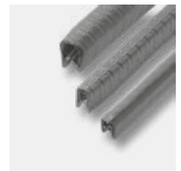
673 Special Profiles EPDM [5-155]



674 Channel Sealing Profiles PVC [5-110.02]



675 Profile for Double Doors EPDM [5-156]



676 Edge Protections PVC [5-160]



677 Edge Protections EPDM [5-161]



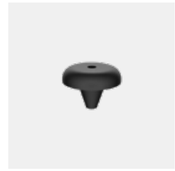
678 Accessories for Profiles [5-170]



679 Radius Adapter [5-171]



680 Rubber Bumpers EPDM / NR [5-950.01]



681 Mushroom Type Bumpers EPDM / NR [5-950.02]

Gaskets

Four Lips Channel Sealing Profile EPDM

[5-100]



Advantages

- High tolerance compensation at minimal compression.
- Balanced sealing properties between gasket/frame and gasket/door.
- Special lips on the profiles allow defined longitudinal movement but prevent the profiles from falling out when opening the door.
- The profile characteristics are the same for both high-pressure and vacuum applications.
- They can be used for 90° corners without warping or folding.
- The double symmetry prevents incorrect fitting.
- Tool-less installation by simply pressing into the channel.
- **Tested according to UL 157 and UL 50E.**

Materials

- **Sponge rubber quality:** EPDM

Remarks

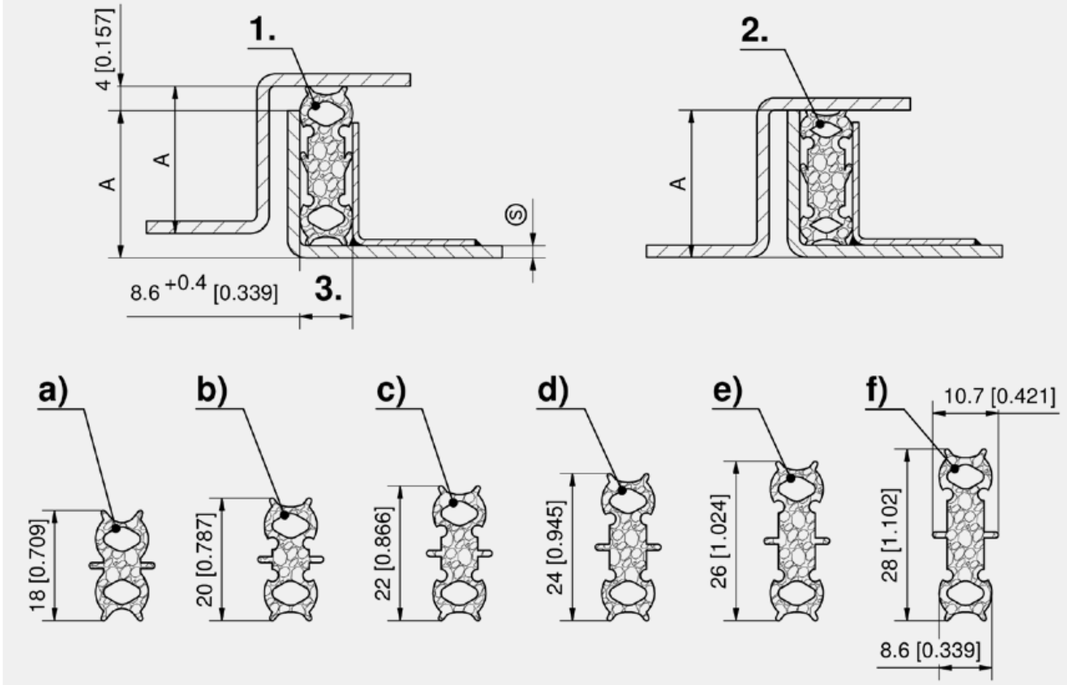
1. = not compressed

2. = compressed

3. = groove width must not be smaller than 8.6 (0.339).

The best sealing result is only achieved in case the gasket can move freely in the groove and is only hold in position by the 2 central "lips".

Note Tolerances!



Channel Sealing Profiles

	Part Number	Material	Colour	Width W	Height H	Bending	Packaging unit
a)	209-0118.00-00000	EPDM	black	8.6 mm	18 mm	16 mm	40 m
b)	209-0120.00-00000	EPDM	black	8.6 mm	20 mm	18 mm	40 m
c)	209-0122.00-00000	EPDM	black	8.6 mm	22 mm	20 mm	40 m
d)	209-0124.00-00000	EPDM	black	8.6 mm	24 mm	22 mm	40 m
e)	209-0126.00-00000	EPDM	black	8.6 mm	26 mm	24 mm	40 m
f)	209-0128.00-00000	EPDM	black	8.6 mm	28 mm	26 mm	40 m

Self-clamping Profiles EPDM

[5-110.01]



Advantages

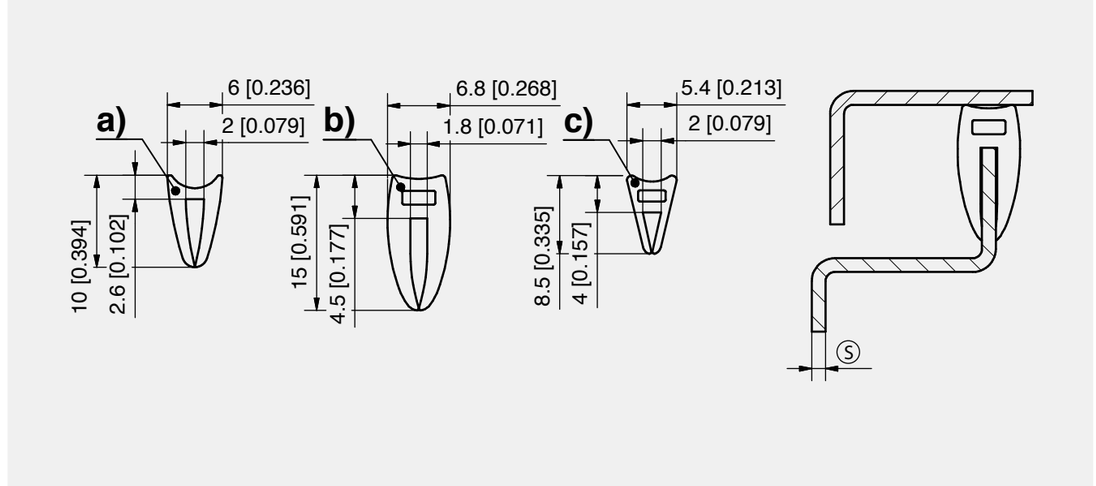
- Basic door profiles for lids, doors and paneling, made of EPDM.
- Simple fitting: these profiles are simply pushed onto sheet metal edges. If necessary profiles have to be glued.
- No radius or mitering necessary: no warping or folds.
- **Tested according to UL 157 and UL 50 E.**

Materials

- **Self-clamping Profile:** EPDM

Remarks

Note Tolerances!



Edge Sealing Profiles

	Part Number	Material	Colour	Width W	Height H	Packaging unit
a)	209-0301.00-00000	EPDM	black	6 mm	10 mm	50 m
b)	209-0302.00-00000	EPDM	black	6.8 mm	15 mm	50 m
c)	209-0307.00-00000	EPDM	black	5.4 mm	8.5 mm	50 m

Rectangular Seals EPDM / CR

[5-120]

RoHS WEEE



Advantages

- Rectangular Seals one-side self-adhesive and non-stretching.
- The rubber foam cells are closed.
- The cellular rubber sealing tape is highly water- and air-tight.
- Water absorption of max. 5% on the surface possible.
- Order example:
- EPDM tape 30 wide, 10 thick = 225-3010
- CR tape 30 wide, 10 thick = 226-3010

Materials

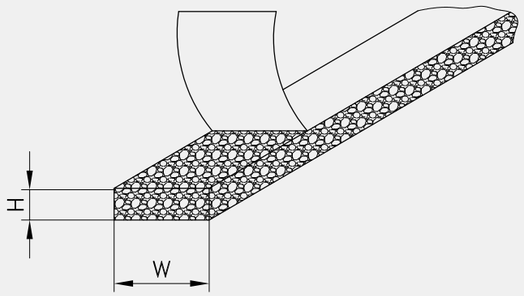
- **Rectangular Seals:** EPDM or CR
- **Storeability: 6 months**

Remarks

Packaging unit: 20m,

over 15mm/0.591 thickness in strips of 1 m/ 39 inches.

Other dimensions are available on request.
(Delivery time 3 weeks)



Rectangular Seals

Part Number	Material	Colour	Width W	Height H	Packaging unit
225-1003.00-00000	rubber/EPDM	black	10 mm	3 mm	20 m
225-1004.00-00000	rubber/EPDM	black	10 mm	4 mm	20 m
225-1005.00-00000	rubber/EPDM	black	10 mm	5 mm	20 m
225-1503.00-00000	rubber/EPDM	black	15 mm	3 mm	20 m
225-1504.00-00000	rubber/EPDM	black	15 mm	4 mm	20 m
225-1505.00-00000	rubber/EPDM	black	15 mm	5 mm	20 m
225-2003.00-00000	rubber/EPDM	black	20 mm	3 mm	20 m
225-2004.00-00000	rubber/EPDM	black	20 mm	4 mm	20 m
225-2005.00-00000	rubber/EPDM	black	20 mm	5 mm	20 m
226-1003.00-00000	CR	black	10 mm	3 mm	20 m
226-1004.00-00000	CR	black	10 mm	4 mm	20 m
226-1005.00-00000	CR	black	10 mm	5 mm	20 m
226-1503.00-00000	CR	black	15 mm	3 mm	20 m
226-1504.00-00000	CR	black	15 mm	4 mm	20 m
226-1505.00-00000	CR	black	15 mm	5 mm	20 m
226-2003.00-00000	CR	black	20 mm	3 mm	20 m
226-2004.00-00000	CR	black	20 mm	4 mm	20 m
226-2005.00-00000	CR	black	20 mm	5 mm	20 m

Rectangular Seals EPDM / CR

[5-125]



Advantages

- Rectangular seals made of EPDM or CR.
- EPDM seals (black and light grey) are type-tested according to the UL standards UL 157 und UL 50E.
- Density: CR 0,55±0.05g/cm³, EPDM 0.6±0.1g/cm³.
- Profile without Glue: 268- CR black, 272- EPDM black, 270- EPDM light grey.
- Profile with self-adhesive on one side. They are non- stretching: 269- CR black, 273- EPDM black, 271- EPDM light grey.
- **ATTENTION:** The glue on the self-adhesive seal is only an assembling aid.
- Profile with permanent fixing with Acrylic Foam Tape: 277- CR black, 274- EPDM black, 275- EPDM light grey.

Materials

- **Rectangular seals:** EPDM or CR

Remarks

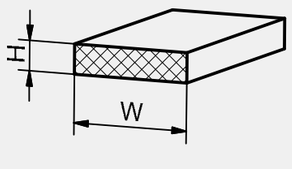
The self-adhesive seals are available within 3 weeks.

The shelf life for seals with glue is approx. 6 months.

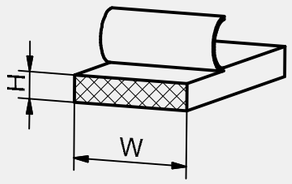
Packaging units see www.dirak.com.

RoHS WEEE

Rectangular profile



Rectangular profile self-adhesive (SA= installation aid)



Examples for Rectangular Seals

Part number	Width B	Height H	Name
269-1003.00-00000	10 mm	3 mm	Sponge Rubber Tape CR black
269-1502.00-00000	15 mm	2 mm	Sponge Rubber Tape CR black
269-3005.00-00000	30 mm	5 mm	Sponge Rubber Tape CR black
271-1502.00-00000	15 mm	2 mm	Rectangular Seals,EPDM, light grey
271-2502.00-00000	25 mm	2 mm	Rectangular Seals,EPDM, light grey
272-2010.00-00000	20 mm	10 mm	Rectangular Seals,EPDM, black
273-0802.00-00000	8 mm	2 mm	Rectangular Seals,EPDM, black
273-1002.00-00000	10 mm	2 mm	Rectangular Seals,EPDM, black
273-2002.00-00000	20 mm	2 mm	Rectangular Seals,EPDM, black
273-1003.00-00000	10 mm	3 mm	Rectangular Seals,EPDM, black
273-1503.00-00000	15 mm	3 mm	Rectangular Seals,EPDM, black
273-2003.00-00000	20 mm	3 mm	Rectangular Seals,EPDM, black
273-1204.00-00000	12 mm	4 mm	Rectangular Seals,EPDM, black
273-1205.00-00000	12 mm	5 mm	Rectangular Seals,EPDM, black
273-1506.00-00000	15 mm	6 mm	Rectangular Seals,EPDM, black
273-2006.00-00000	20 mm	6 mm	Rectangular Seals,EPDM, black

The sealing profiles listed here are just a few examples from a portfolio of over 500 rectangular seals from our program. For other cross-sections or questions about dimensions, delivery time or packaging units, please contact us. We will be glad to help you.

Round- and Castellated Profiles EPDM / CR

[5-127]



Advantages

Round Profile:

- The round profiles are made from EPDM or CR with a closed surface.
- **EPDM profiles are tested according to UL 157 and UL 50 E.**

Castellated Profile:

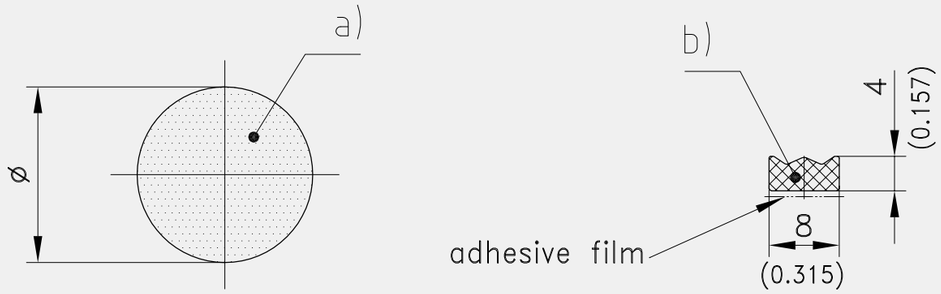
- Castellated profiles are made from EPDM.
- These tapes are available with one-sided self-adhesive. They are non-stretching.
- **Tested according to UL 157 and UL 50 E.**

Materials

- **Round profiles**: EPDM or CR
- **Castellated profiles:** EPDM
- **Storeability: 6 month**

Remarks

Note Tolerances!



Round profiles, EPDM, light grey

Part Number	Material	Colour	Diameter Ø	Packaging unit
270-0020.00-00000	EPDM	light grey	2 mm	200 m
270-0025.00-00000	EPDM	light grey	2.5 mm	200 m
270-0030.00-00000	EPDM	light grey	3 mm	200 m
270-0035.00-00000	EPDM	light grey	3.5 mm	200 m
270-0040.00-00000	EPDM	light grey	4 mm	200 m
270-0045.00-00000	EPDM	light grey	4.5 mm	200 m
270-0050.00-00000	EPDM	light grey	5 mm	200 m
270-0060.00-00000	EPDM	light grey	6 mm	200 m
270-0070.00-00000	EPDM	light grey	7 mm	200 m
270-0080.00-00000	EPDM	light grey	8 mm	200 m
270-0090.00-00000	EPDM	light grey	9 mm	200 m
270-0100.00-00000	EPDM	light grey	10 mm	100 m
270-0110.00-00000	EPDM	light grey	11 mm	100 m
270-0120.00-00000	EPDM	light grey	12 mm	200 m
270-0130.00-00000	EPDM	light grey	13 mm	50 m
270-0140.00-00000	EPDM	light grey	14 mm	50 m
270-0150.00-00000	EPDM	light grey	15 mm	50 m
270-0160.00-00000	EPDM	light grey	16 mm	50 m
270-0180.00-00000	EPDM	light grey	18 mm	25 m
270-0200.00-00000	EPDM	light grey	20 mm	25 m
270-0220.00-00000	EPDM	light grey	22 mm	25 m
270-0250.00-00000	EPDM	light grey	25 mm	25 m
270-0300.00-00000	EPDM	light grey	30 mm	20 m
270-0350.00-00000	EPDM	light grey	35 mm	20 m
270-0400.00-00000	EPDM	light grey	40 mm	20 m
270-0450.00-00000	EPDM	light grey	45 mm	10 m
270-0500.00-00000	EPDM	light grey	50 mm	10 m

Round profiles, EPDM, black

Part Number	Material	Colour	Diameter Ø	Packaging unit
272-0020.00-00000	EPDM	black	2 mm	200 m
272-0025.00-00000	EPDM	black	2.5 mm	200 m
272-0030.00-00000	EPDM	black	3 mm	200 m
272-0035.00-00000	EPDM	black	3.5 mm	200 m
272-0040.00-00000	EPDM	black	4 mm	200 m
272-0045.00-00000	EPDM	black	4.5 mm	200 m
272-0050.00-00000	EPDM	black	5 mm	200 m
272-0060.00-00000	EPDM	black	6 mm	200 m
272-0070.00-00000	EPDM	black	7 mm	200 m
272-0080.00-00000	EPDM	black	8 mm	200 m
272-0090.00-00000	EPDM	black	9 mm	200 m
272-0100.00-00000	EPDM	black	10 mm	100 m
272-0110.00-00000	EPDM	black	11 mm	100 m
272-0120.00-00000	EPDM	black	12 mm	200 m
272-0130.00-00000	EPDM	black	13 mm	50 m
272-0140.00-00000	EPDM	black	14 mm	50 m
272-0150.00-00000	EPDM	black	15 mm	50 m
272-0160.00-00000	EPDM	black	16 mm	50 m
272-0180.00-00000	EPDM	black	18 mm	25 m
272-0200.00-00000	EPDM	black	20 mm	25 m
272-0220.00-00000	EPDM	black	22 mm	25 m
272-0250.00-00000	EPDM	black	25 mm	25 m
272-0300.00-00000	EPDM	black	30 mm	20 m
272-0350.00-00000	EPDM	black	35 mm	20 m
272-0400.00-00000	EPDM	black	40 mm	20 m
272-0450.00-00000	EPDM	black	45 mm	10 m
272-0500.00-00000	EPDM	black	50 mm	10 m

Round profiles, CR, black

Part Number	Material	Colour	Diameter Ø	Packaging unit
268-0020.00-00000	CR	black	2 mm	200 m
268-0030.00-00000	CR	black	3 mm	200 m
268-0040.00-00000	CR	black	4 mm	200 m
268-0050.00-00000	CR	black	5 mm	200 m
268-0060.00-00000	CR	black	6 mm	200 m
268-0070.00-00000	CR	black	7 mm	200 m
268-0080.00-00000	CR	black	8 mm	200 m
268-0100.00-00000	CR	black	10 mm	100 m
268-0120.00-00000	CR	black	12 mm	200 m
268-0150.00-00000	CR	black	15 mm	50 m
268-0160.00-00000	CR	black	16 mm	50 m
268-0180.00-00000	CR	black	18 mm	25 m
268-0200.00-00000	CR	black	20 mm	25 m
268-0220.00-00000	CR	black	22 mm	25 m
268-0250.00-00000	CR	black	25 mm	25 m
268-0300.00-00000	CR	black	30 mm	20 m
268-0350.00-00000	CR	black	35 mm	20 m

Castellated profile

	Part Number	Material	Colour	Width W	Height H	Packaging unit
b)	209-1401.00-00000	EPDM	black	8 mm	4 mm	250 m

Window Seals EPDM

[5-130]



Advantages

- Window seals are used to mount panes, windows, etc. in doors, casings and machine enclosures.
- **Note:** assembly only **with** filler. The pane is clamped in place with the help of the filler and held flush-mounted in the cutout.
- The window seals are made of EPDM with excellent weathering and ozone resistance properties.
- DIRAK's EPDM quality is neutral to paints.
- **Tested according to UL 157 and UL 50 E.**

Materials

- **Profile and filler:** EPDM

Remarks

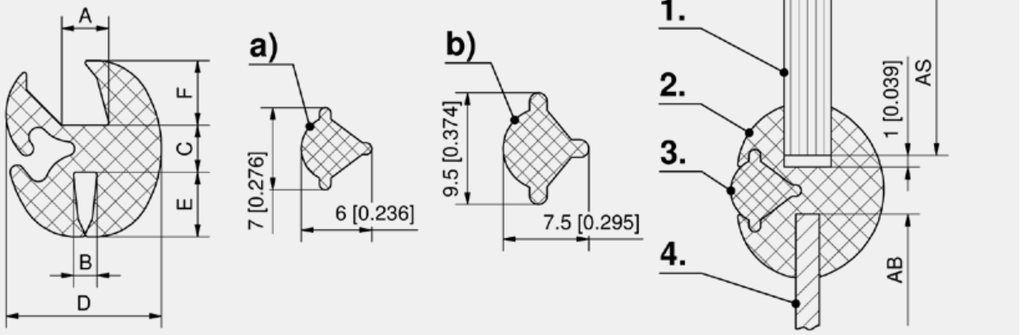
1. Window
2. Window seal
3. Filler
4. Sheet metal thickness

Please dimension window with 1mm gap circumferentially.

AS = size of window

AB = size sheet metal

Note Tolerances!



Window Seals

Part Number	Material	Colour	A	B	C	D	e	f	Bending radius	Filler	Packaging unit
209-0501.00-00000	EPDM	black	4 mm	2 mm	4 mm	13 mm	5.5 mm	5.5 mm	30	a)	20 m
209-0502.00-00000	EPDM	black	4 mm	2.5 mm	7 mm	16 mm	7 mm	7 mm	70	b)	20 m
209-0503.00-00000	EPDM	black	6 mm	2.5 mm	7 mm	18 mm	7 mm	7 mm	70	b)	20 m
209-0508.00-00000	EPDM	black	3 mm	1 mm	4 mm	11.6 mm	4.5 mm	6 mm	35	a)	20 m
209-0509.00-00000	EPDM	black	4 mm	1.5 mm	7 mm	16 mm	7 mm	7 mm	80	b)	20 m
209-0510.00-00000	EPDM	black	4 mm	2 mm	7.3 mm	18 mm	11 mm	8.7 mm	100	b)	15 m
209-0511.00-00000	EPDM	black	4.5 mm	5 mm	7 mm	16 mm	7 mm	7 mm	80	b)	20 m
209-0512.00-00000	EPDM	black	5 mm	2 mm	7.5 mm	19 mm	12.5 mm	9.5 mm	100	b)	15 m
209-0513.00-00000	EPDM	black	5 mm	3 mm	7 mm	19 mm	8 mm	8 mm	90	b)	20 m
209-0514.00-00000	EPDM	black	5 mm	3 mm	7.5 mm	19 mm	12.5 mm	9.5 mm	100	b)	15 m
209-0515.00-00000	EPDM	black	5 mm	5 mm	7 mm	18.4 mm	9 mm	8 mm	90	b)	20 m
209-0516.00-00000	EPDM	black	5.5 mm	2 mm	7.3 mm	19 mm	11 mm	8.7 mm	100	b)	15 m
209-0517.00-00000	EPDM	black	6 mm	1.5 mm	7.5 mm	19 mm	12.5 mm	9.5 mm	100	b)	15 m
209-0518.00-00000	EPDM	black	6 mm	2.5 mm	7 mm	19 mm	8 mm	8 mm	90	b)	20 m
209-0519.00-00000	EPDM	black	6 mm	3 mm	7.5 mm	19 mm	12.5 mm	9.5 mm	100	b)	15 m
209-0520.00-00000	EPDM	black	6 mm	4 mm	7.5 mm	19 mm	12.5 mm	9.5 mm	100	b)	15 m
209-0521.00-00000	EPDM	black	6 mm	6 mm	8.5 mm	19 mm	9.5 mm	9 mm	100	b)	15 m
209-0522.00-00000	EPDM	black	8 mm	3 mm	7.5 mm	22 mm	12.5 mm	9.5 mm	120	b)	15 m
209-0523.00-00000	EPDM	black	8 mm	4 mm	8.5 mm	25 mm	12.5 mm	10 mm	100	b)	15 m
209-0524.00-00000	EPDM	black	10 mm	3 mm	7.5 mm	23 mm	12.5 mm	9.5 mm	120	b)	15 m
209-0525.00-00000	EPDM	black	10 mm	6 mm	7.5 mm	24 mm	12.5 mm	9.5 mm	100	b)	15 m

Specific accessories

b) 209-0602.00-00000 **Filler**

a) 209-0601.00-00000 **Filler**

Accessories

678 209-1003.00-00000 **Fitting tool for window seals, incl. eye 701-7068**

678 701-7066.00-00000 **Eye for fitting tool, small**

Window Seal EPDM

[5-131]



Advantages

- Window seals are used to mount panes, windows, etc. in doors, casings and machine enclosures.
- **Note:** assemly only **with** filler. The pane is clamped in place with the help of the filler and held flush-mounted in the cutout.
- The window seal is made of EPDM with excellent weathering and ozone resistance properties.
- DIRAK's EPDM quality is neutral to paints.
- **Tested according to UL 157 and UL 50 E.**

Materials

- **Window seals:** EPDM

Remarks

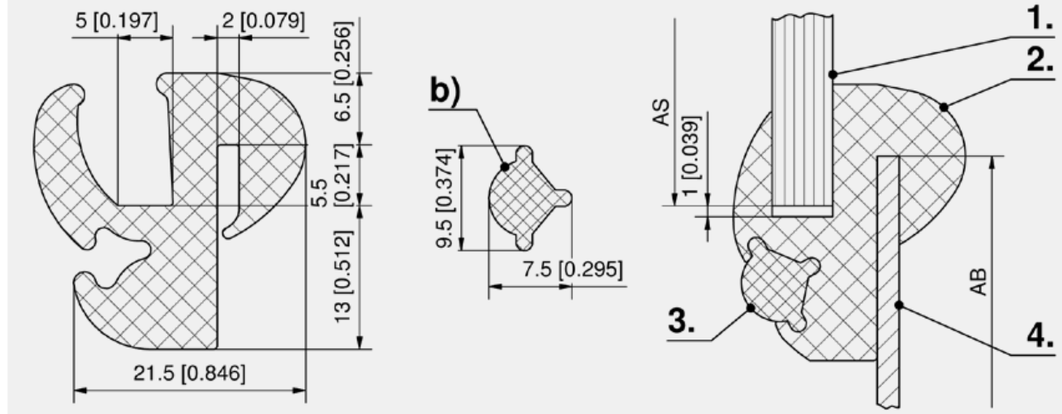
1. Window
2. Profile
3. Filler
4. Sheet metal thickness

Please dimension window with 1 mm gap circumferentially.

AS = size of window

AB = size sheet metal

Note Tolerances!



Window Seal

Part Number	Material	Colour	Width W	Height H	Packaging unit
209-0504.00-00000	EPDM	black	21.5 mm	25 mm	15 m

Specific accessories

b) 209-0602.00-00000 **Filler**

Window Seals EPDM / NBR



Advantages

- Window seals are used to mount panes, windows, etc. in doors, casings and machine enclosures.
- They are made of EPDM / NBR. The pane is mounted by simply pressing it into the window seal.
- Additional tools are not required. The pane is inside or outside the enclosure and hence is well-suited for use under high pressure or vacuum conditions.
- **EPDM seals are tested according to UL 157 and UL 50E.**

Materials

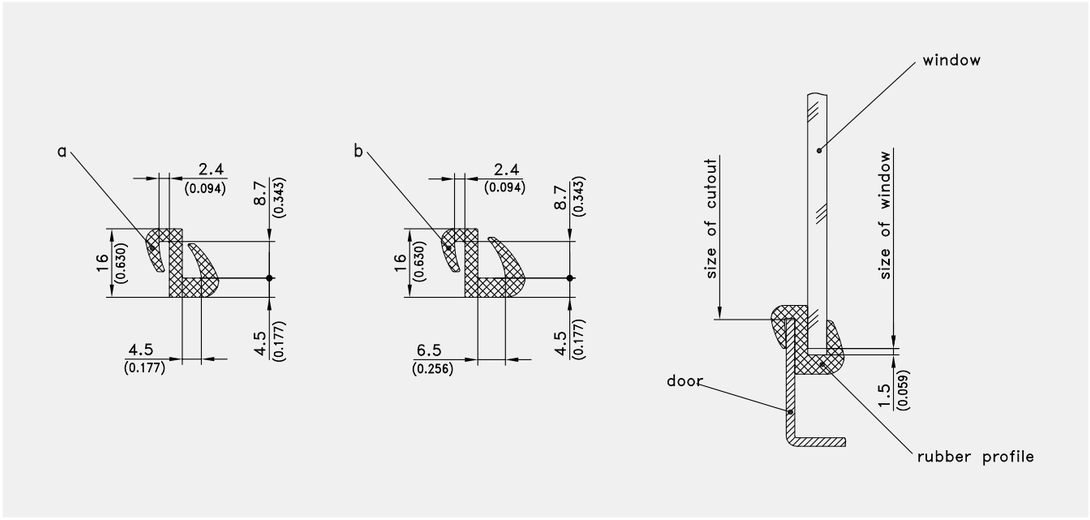
- **Rubber quality:** EPDM or Perbunan (NBR), NBR is oil-resistant

Remarks

Please dimension window with 1,5 mm gap circumferentially.

All standard window seals are available from stock.

Note Tolerances!



Window Seals

	Part Number	Material	Colour	Bending radius	Glass thickness	Sheet thickness	Height H	Packaging unit
a)	209-0401.00-00000	EPDM	black	min 80	4.5 mm	2.4 mm	16 mm	100 m
b)	209-0402.00-00000	EPDM	black	min 80	6.5 mm	2.4 mm	16 mm	100 m
a)	209-0406.00-00000	NBR	black	min 80	4.5 mm	2.4 mm	16 mm	100 m
b)	209-0407.00-00000	NBR	black	min 80	6.5 mm	2.4 mm	16 mm	100 m

RFI Sealing Profiles Clip-on



Advantages

- The EMV shielding profile is an enhancement of gasketing see product system 5-150 and 5-151.
- These profiles possess an additional form closed clotted Cu/Sn fleece.
- Clip-on sealing profile.
- This profile adds the EMI / RFI shielding feature to the proven profile 5-150/5-151.
- **Version a), b) and c) tested according to UL 157 and UL 50E.**
- On request we put data sheets to your disposal.

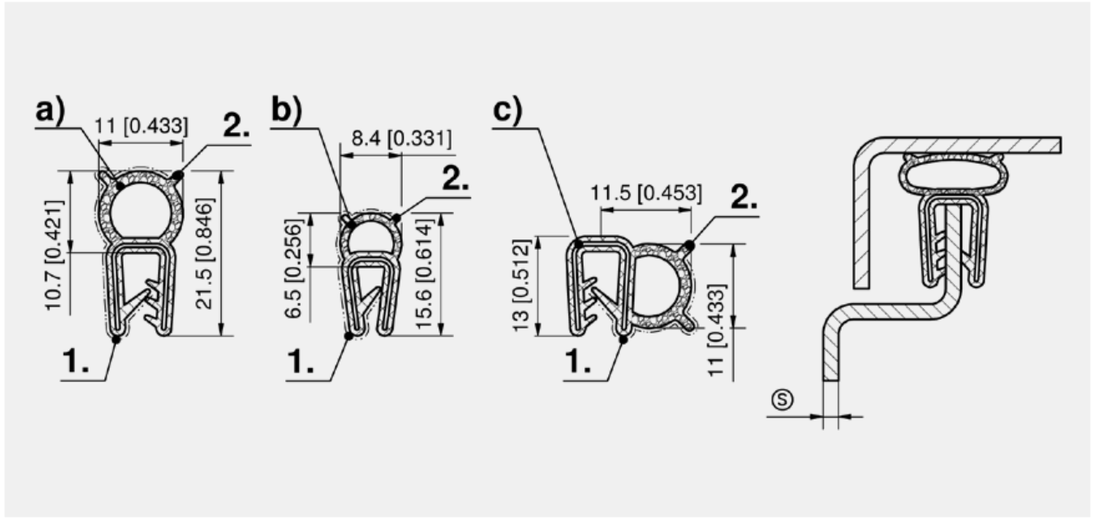
Materials

- **Carrier:** EPDM
- **Fleece:** Cu/Sn coated

Remarks

1. Form closed clotted Cu/Sn fleece.

2. Outside lip (water- and dust sealing)



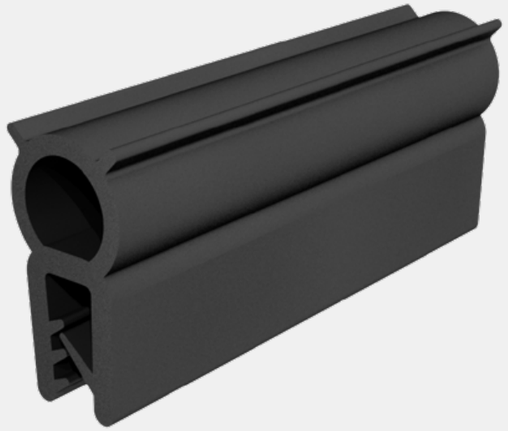
RFI Sealing Profiles

	Part Number	Material	Colour	RFI	Clamping range	Width W	Height H	Packaging unit
a)	209-1301.00-L2006	EPDM	black	Yes	1.0 - 3 mm	11 mm	21.5 mm	100 m
c)	209-1302.00-L2006	EPDM	black	Yes	2 mm	11.5 mm	13 mm	100 m
b)	209-1305.00-00000	EPDM	black	Yes	1.0 - 2 mm	8.4 mm	15.6 mm	100 m

Contact tape for EMI/RFI

Part Number	Material	RFI	Width W	Mask	Packaging unit
209-1331.00-00012	fleece (CuSn coated)	Yes	12 mm	9 mm	300 m
209-1331.00-00022	fleece (CuSn coated)	Yes	22 mm	19 mm	300 m
209-1331.00-00025	fleece (CuSn coated)	Yes	25 mm	21 mm	300 m

Clip-on Sealing Profiles EPDM / NBR

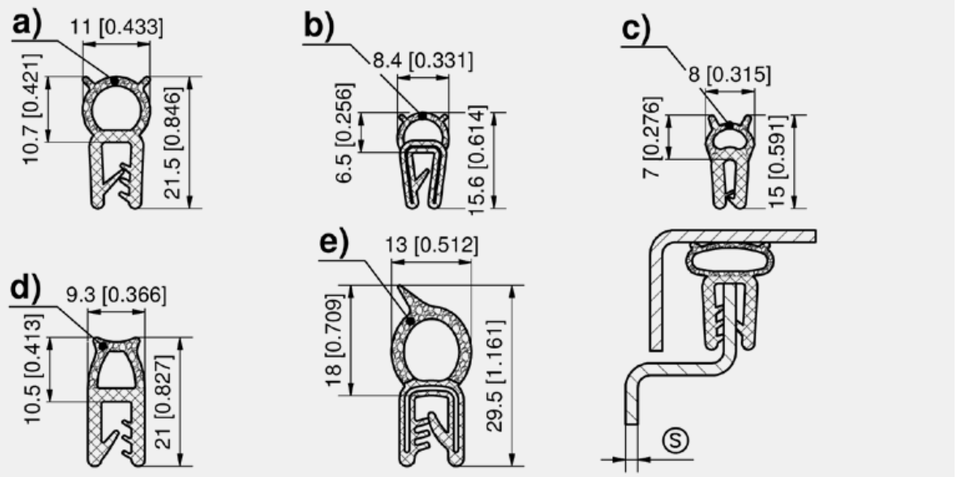


Advantages

- The sealing part of these profiles is made of EPDM sponge rubber and the clamp area consists of soft rubber with a steel clip-on core.
- In an extrusion process the two materials are bonded to each other through vulcanization.
- **EPDM profiles are tested according to UL 157 and UL 50E.**
- The profiles made of NBR are oil resistant.

Materials

- **Clip-on profiles:** EPDM or NBR
- **Carrier:** Soft rubber
- **Sealing part:** Sponge rubber



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Width W	Height H	Clamping range	Packaging unit
a)	209-0201.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	11 mm	21.5 mm	1.5 - 3 mm	50 m
a)	209-0201.1A-00000	soft rubber, EPDM	sponge rubber, EPDM	black	11 mm	21.5 mm	0.8 - 2 mm	50 m
a)	209-2201.00-00000	soft rubber, NBR	sponge rubber, NBR	black	11 mm	21.5 mm	1.5 - 3 mm	50 m
a)	209-0240.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	11 mm	21.5 mm	3.0 - 4 mm	100 m
b)	209-0205.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	8.4 mm	15.6 mm	1.0 - 2 mm	50 m
b)	209-0246.00-00000	soft rubber, NBR	sponge rubber, NBR	black	8.4 mm	15.6 mm	1.0 - 2 mm	50 m
c)	209-0205.1A-00000	soft rubber, EPDM	sponge rubber, EPDM	black	8 mm	15 mm	0.8 - 1.5 mm	50 m
d)	209-0211.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	9.3 mm	21 mm	1.0 - 2.5 mm	50 m
e)	209-0220.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	13 mm	29.5 mm	1.0 - 2.5 mm	50 m

Clip-on Sealing Profiles EPDM / NBR

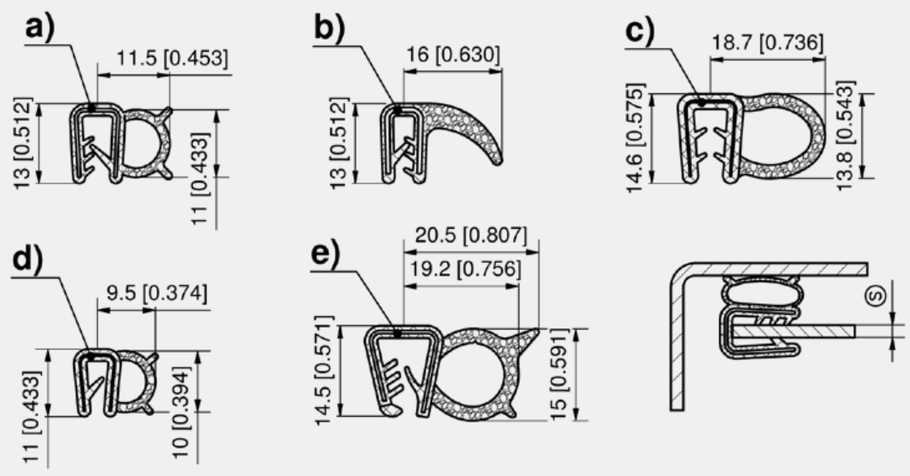


Advantages

- The sealing part of these profiles is made of EPDM sponge rubber and the clamp area consists of soft rubber with a steel EPDM clip-on core.
- In an extrusion process the two materials are bonded to each other through vulcanization.
- **EPDM profiles are tested according to UL 157 and UL 50 E.**
- The profiles made of NBR are oil resistant.

Materials

- **Clip-on profiles:** EPDM or NBR
- **Carrier:** Soft rubber
- **Sealing part:** Sponge rubber



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Clamping range	Packaging unit
a)	209-0202.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.5 - 3 mm	50 m
a)	209-0202.1A-00000	soft rubber, EPDM	sponge rubber, EPDM	black	0.8 - 2 mm	50 m
a)	209-2202.00-00000	soft rubber, NBR	sponge rubber, NBR	black	1.5 - 3 mm	50 m
b)	209-0203.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.5 - 3 mm	50 m
c)	209-0204.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.5 - 3 mm	25 m
d)	209-0206.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 2 mm	50 m
d)	209-0206.1A-00000	soft rubber, EPDM	sponge rubber, EPDM	black	0.8 - 1.5 mm	50 m
e)	209-0228.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 2.5 mm	75 m
e)	209-0229.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	2.0 - 4 mm	75 m
e)	209-0230.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	4.0 - 6 mm	75 m

Clip-on Sealing Profiles EPDM

[5-152]

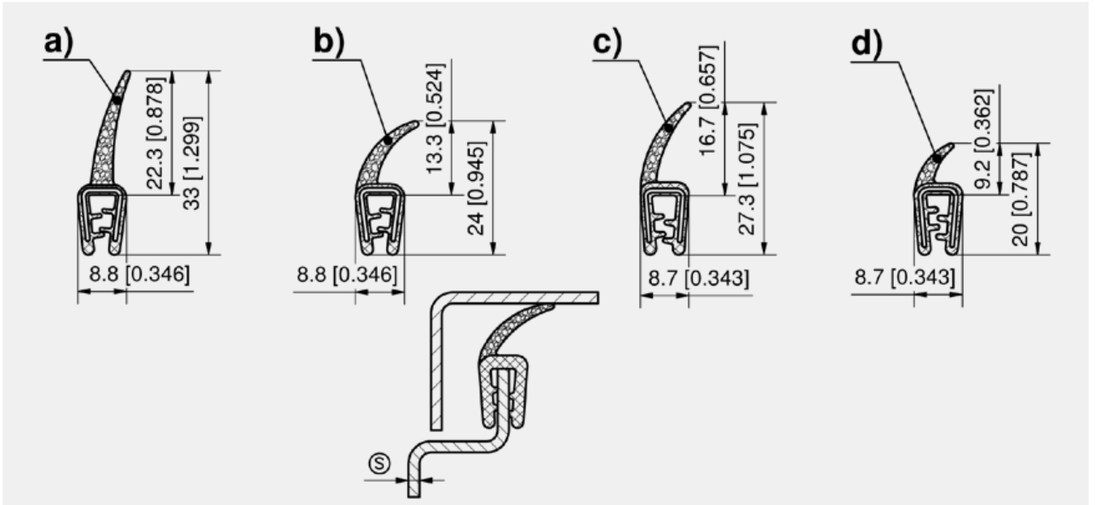


Advantages

- The sealing part of these profiles is made of sponge rubber and the clamp area consists of soft rubber with a steel clip-on core.
- In an extrusion process the two materials are bonded to each other through vulcanization.
- **Tested according to UL 157 and UL 50E.**

Materials

- **Clip-on profiles:** EPDM
- **Carrier:** soft rubber
- **Sealing part:** Sponge rubber



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Clamping range	Packaging unit
a)	209-0219.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 2.5 mm	50 m
b)	209-0221.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 2.5 mm	50 m
c)	209-0237.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 3 mm	50 m
d)	209-0239.00-00000	soft rubber, EPDM	sponge rubber, EPDM	black	1.0 - 2 mm	50 m

Clip-on Sealing Profiles PVC / EPDM

[5-153]

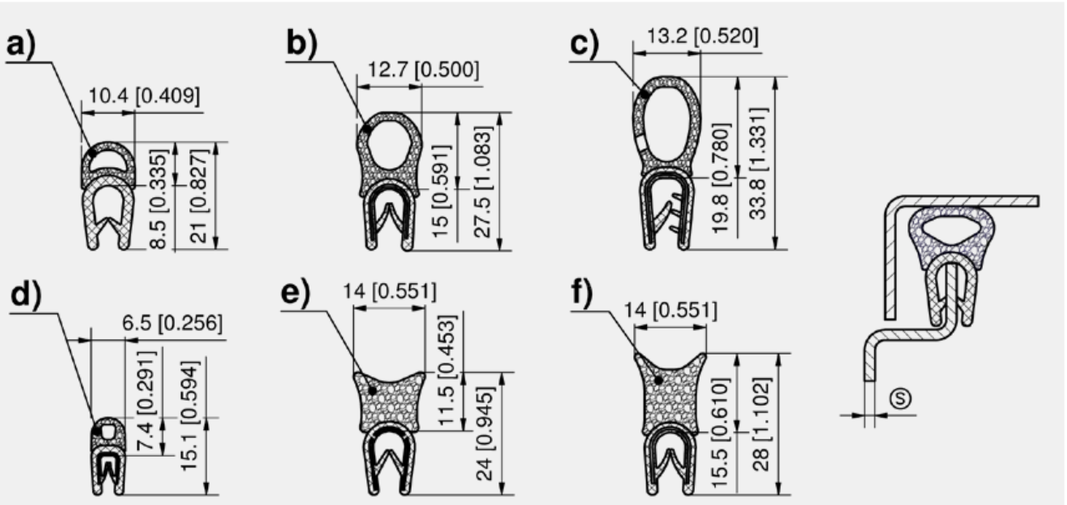


Advantages

- The combination profiles consist of PVC with closed cell sponge rubber profiles.
- These sponge rubber profiles are made of high-quality synthetic rubber and are characterized by a high age resistance and great elasticity.
- Sealing profiles as a combination between PVC edge trim and sponge rubber can have upto two glued joints.

Materials

- **Carrier:** PVC
- **Sealing part:** Sponge rubber, EPDM



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Clamping range	Width W	Height H	Packaging unit
a)	209-0213.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	10.4 mm	21 mm	50 m
b)	209-0215.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	12.7 mm	27.5 mm	50 m
c)	209-0216.00-00000	PVC	sponge rubber, EPDM	black	2.0 - 4 mm	13.2 mm	33.8 mm	50 m
d)	209-0222.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 2 mm	6.5 mm	15.1 mm	100 m
e)	209-0227.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	14 mm	24 mm	50 m
f)	209-0238.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	14 mm	28 mm	50 m

Clip-on Sealing Profiles PVC / EPDM

RoHS WEEE

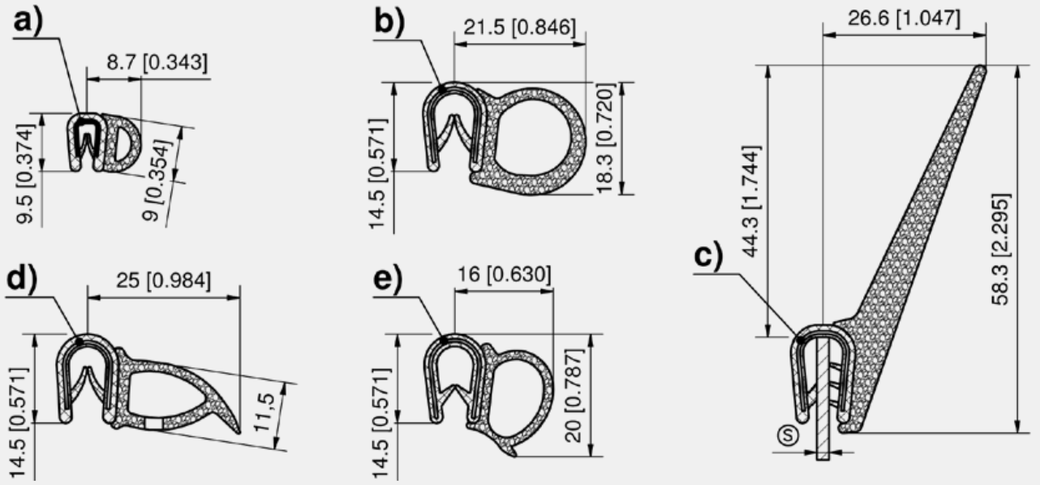


Advantages

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Materials

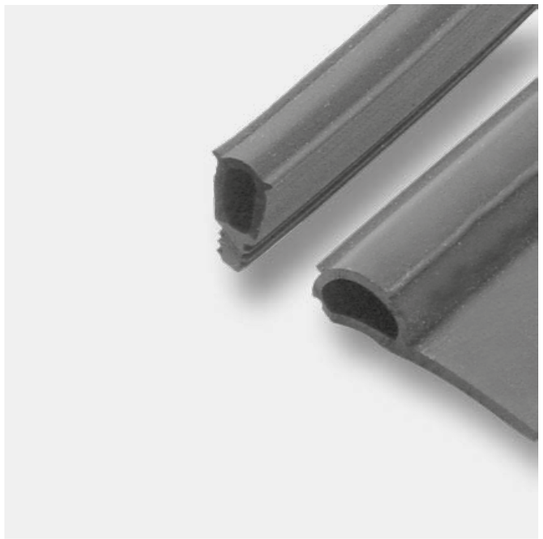
- **Carrier:** PVC
- **Sealing part:** Sponge rubber, EPDM



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Clamping range	Packaging unit
a)	209-0212.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 2 mm	100 m
b)	209-0214.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	50 m
c)	209-0217.00-00000	PVC	sponge rubber, EPDM	black	2.0 - 4 mm	25 m
d)	209-0218.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	50 m
e)	209-0226.00-00000	PVC	sponge rubber, EPDM	black	1.0 - 4 mm	50 m

Special Profiles EPDM



Advantages

- Special sealing profiles made of EPDM for application according to the shown examples.
- **Tested according to UL 157 and UL 50E.**

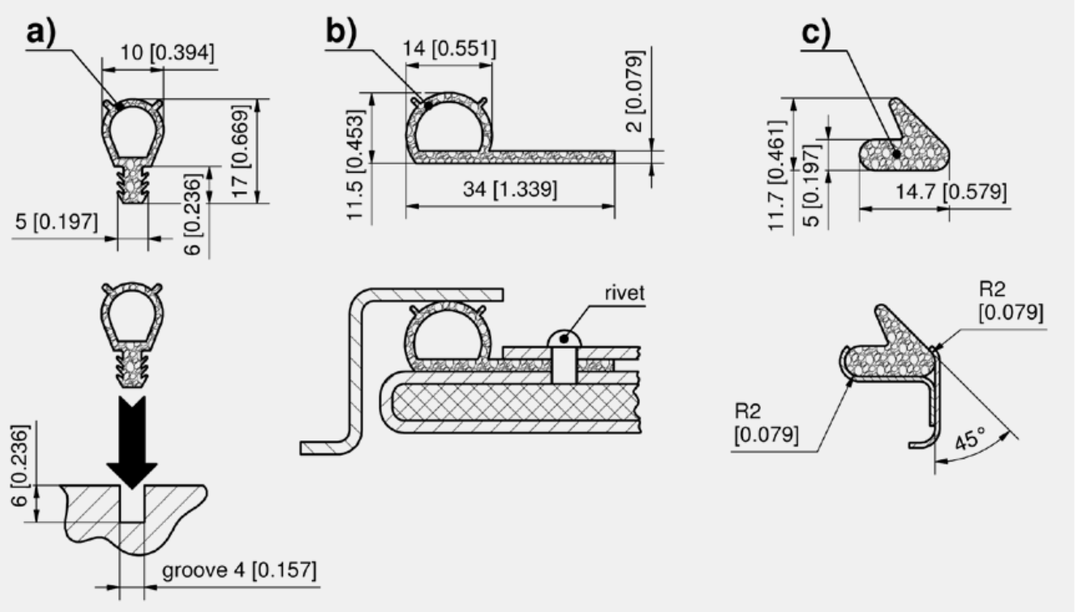
Materials

- **Special profiles:** EPDM

Remarks

Note Tolerances!

RoHS WEEE



EPDM special profiles

	Part Number	Material	Colour	Shore A	Packaging unit
a)	209-0704.00-00000	EPDM	black		50 m
b)	209-1203.00-00000	EPDM	black	55 °	50 m
c)	241-0903.00-00000	EPDM	black	15 °	50 m

Channel Sealing Profiles PVC

[5-110.02]

RoHS WEEE



Advantages

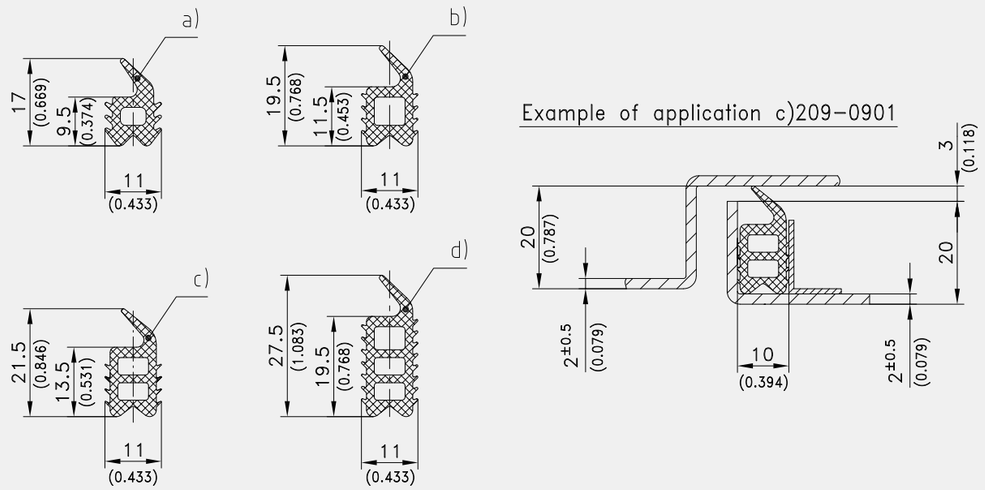
- Conventional door profiles made of PVC for applications into seal channels.
- Several versions for different door bendings available.
- For higher requirements regarding sealing properties and easy fitting please see product system 5-100.

Materials

- **Sealing Profile:** PVC

Remarks

Note Tolerances!



Channel Sealing Profiles

	Part Number	Material	Colour	Width W	Height H	Packaging unit
a)	209-0903.00-00000	PVC	black	11 mm	17 mm	20 m
b)	209-0902.00-00000	PVC	black	11 mm	19.5 mm	20 m
c)	209-0901.00-00000	PVC	black	11 mm	21.5 mm	20 m
d)	209-0904.00-00000	PVC	black	11 mm	27.5 mm	20 m

Profile for Double Doors EPDM

[5-156]



Advantages

- Seal for double doors.
- **Tested according to UL 157 and UL 50 E.**

Materials

- **Profile:** EPDM

Remarks

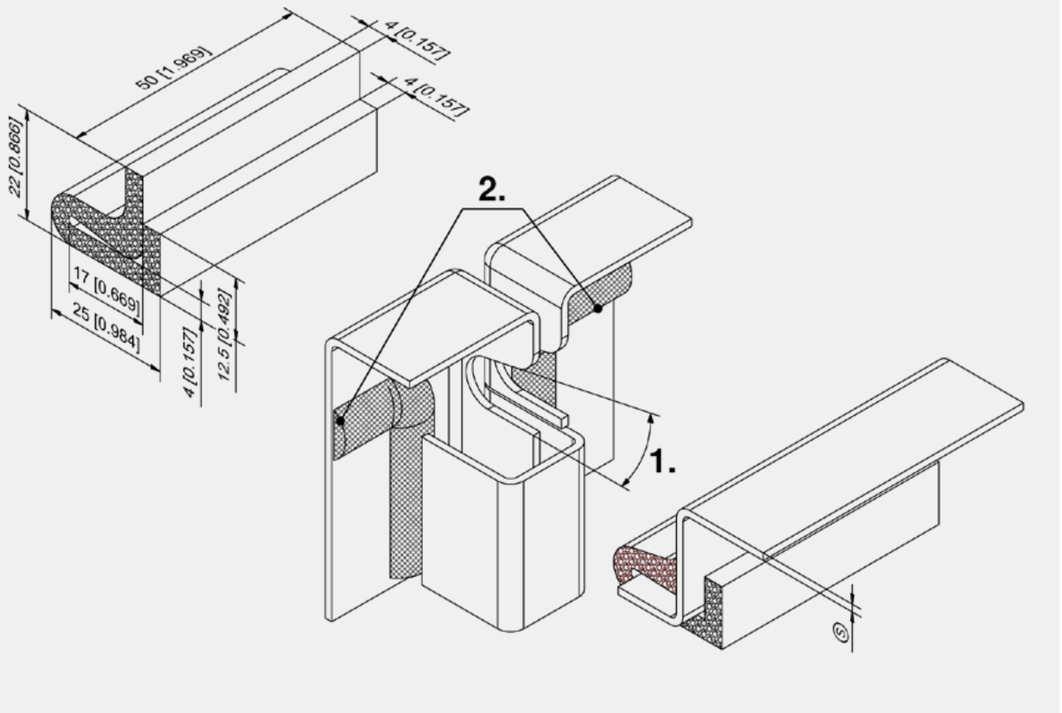
s = 1.2 - 2mm

1. Angle depends on panel thickness. Standard ~30°

2. foamed sealing

Packaging unit:
10 pcs. of 50mm.

RoHS WEEE



Profile for Double Doors

Part Number	Material	Colour	Width W	Height H	Shore A
209-1204.00-00050	EPDM	black	25 mm	22 mm	15 °

Edge Protections PVC

[5-160]

RoHS WEEE



Advantages

- Edge protections are used when steel edges have to be smooth.
- Additional metal machining work can be avoided and an decorative effect is achieved.
- The U-shaped steel clip-on tape with a PVC jacketing provide for firm seating on metal edges, even if there are radii or bends.

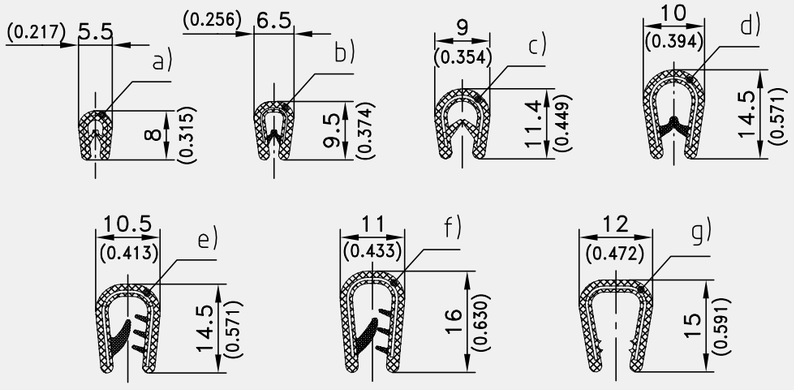
Materials

- **Edge protection**: PVC with steel spring core

Remarks

The PVC jacketing is resistant to weathering and to temperatures within a range from approx. -40° to +70° Celsius.

Note Tolerances!



Edge Protections

	Part Number	Material	Colour	Clamping range	Width W	Height H	Packaging unit
a)	209-0801.00-00000	PVC	black, smooth	0.8 - 1.5 mm	5.5 mm	8 mm	50 m
b)	209-0802.00-00000	PVC	black	1.0 - 2 mm	6.5 mm	9.5 mm	50 m
b)	209-0805.00-00000	PVC	white grey	1.0 - 2 mm	6.5 mm	9.5 mm	100 m
b)	209-0807.00-00000	PVC	silver	1.0 - 2 mm	6.5 mm	9.5 mm	100 m
c)	209-0808.00-00000	PVC	black	1.0 - 2 mm	9 mm	11.4 mm	100 m
c)	209-0820.00-00000	PVC	black	2.0 - 4 mm	9 mm	11.4 mm	100 m
d)	209-0803.00-00000	PVC	black	1.0 - 4 mm	10 mm	14.5 mm	50 m
d)	209-0810.00-00000	PVC	anthracite	1.0 - 4 mm	10 mm	14.5 mm	100 m
d)	209-0811.00-00000	PVC	light grey	1.0 - 4 mm	10 mm	14.5 mm	100 m
d	209-0812.00-00000	PVC	white grey	1.0 - 4 mm	10 mm	14.5 mm	100 m
e)	209-0813.00-00000	PVC	black	2.0 - 5 mm	10.5 mm	14.5 mm	100 m
f)	209-0814.00-00000	PVC	black	2.0 - 4 mm	11 mm	16 mm	100 m
f)	209-0816.00-00000	PVC	black	1.0 - 2.5 mm	11 mm	16 mm	100 m
f)	209-0817.00-00000	PVC	black	4.0 - 6 mm	11 mm	16 mm	100 m
g)	209-0818.00-00000	PVC	black	8.0 - 10 mm	12 mm	15 mm	100 m
g)	209-0815.00-00000	PVC	black	6.0 - 8 mm	12 mm	15 mm	100 m
g)	209-0819.00-00000	PVC	light grey	6.0 - 8 mm	12 mm	15 mm	100 m

Edge Protections EPDM

[5-161]



Advantages

- Edge protections are used when steel edges have to be smooth.
- Additional metal machining work can be avoided and an decorative effect is achieved.
- The U-shaped steel clip-on tape with an EPDM jacketing provides for firm seating on metal edges, even if there are radii or bends.
- **Tested according to UL 157 and UL 50E.**

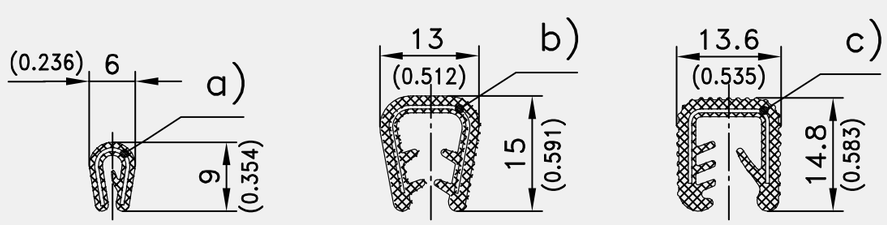
Materials

- **Edge protection:** EPDM, black with steel spring core

Remarks

Note Tolerances.

RoHS WEEE



Edge Protections

	Part Number	Material	Colour	Clamping range	Width W	Height H	Packaging unit
a)	209-0824.00-00000	EPDM	black	1.0 - 2 mm	6 mm	9 mm	100 m
b)	209-0825.00-00000	EPDM	black	5.0 - 8 mm	13 mm	15 mm	100 m
c)	209-0826.00-00000	EPDM	black	5.0 - 6 mm	13.6 mm	14.8 mm	100 m

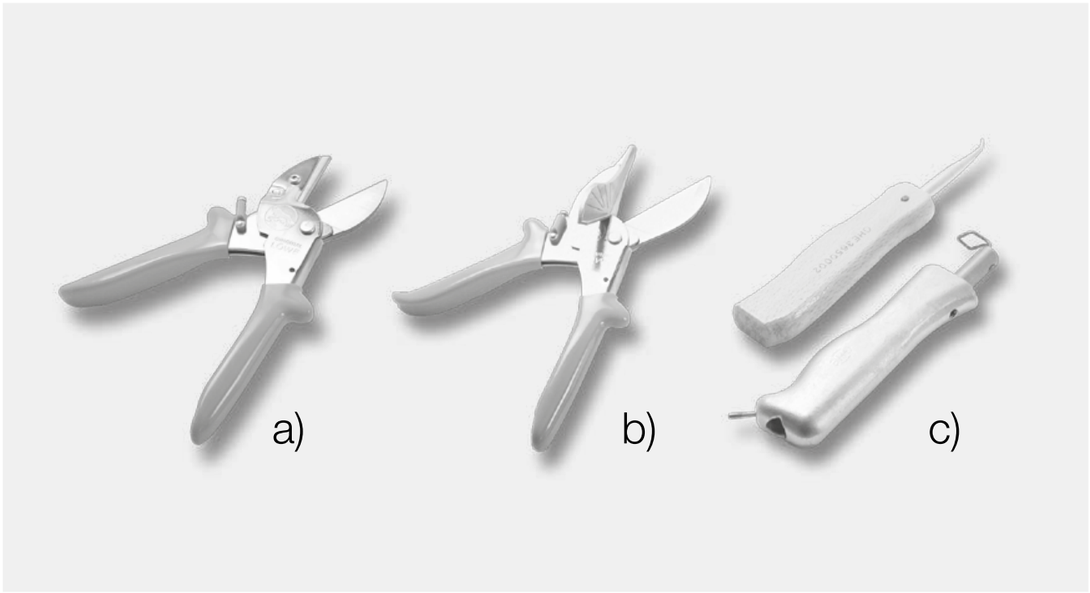
Accessories for Profiles

[5-170]



Advantages

- Pair of scissors for cutting sealing profiles into length.
- Pair of scissors with protractor.
- Fitting tool for window seals 5-130 / 5-131.
- Glue for EPDM for joining the sealing profiles to rings.



Accessories for Profiles

	Part Number	Name	Eyelets width
a)	209-1001.00-00000	Pair of universal scissors	
b)	209-1002.00-00000	Pair of mitring scissors	
c)	209-1003.00-00000	Fitting tool for window seals, incl. eye 701-7068	
	701-7066.00-00000	Eye for fitting tool, small	9.4 mm
	701-7067.00-00000	Eye for fitting tool, medium	10.6 mm
	701-7068.00-00000	Eye for fitting tool, large	14 mm
	209-7054.00-00000	Glue for EPDM, 50g	

Radius Adapter

[5-171]

RoHS WEEE



Advantages

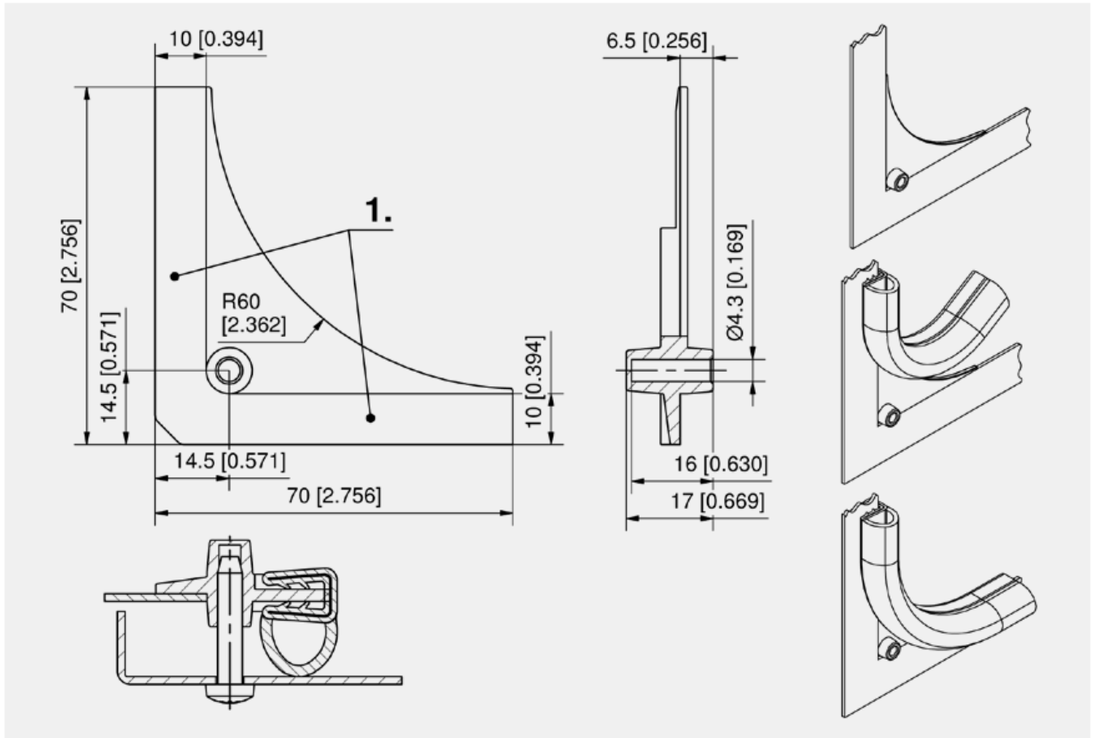
- Radius Adapter simplifies installation for clip-on sealing profiles by creating a radius within 90° inside corners.
- The radius adapter is easily installed and kept in position at the flange of the housing by the clip-on U-part of the sealing profile.
- No welding and grinding of junction plates due to the corner radius.
- Just put the radius adapter into the angle (after the painting process) and fix with the U-shape carrier of the sealing profile.
- Housing covers can be screwed to the frame at low cost using the integrated device for selftapping screw.

Materials

- **Radius Adapter:** PA6 30GF, black

Remarks

1. Installation surface



Accessories for Profiles

Part Number	Type	Surface
209-4204.52-00000	Radius adapter for clip-on profiles	black

Rubber Bumpers EPDM / NR

[5-950.01]

RoHS WEEE

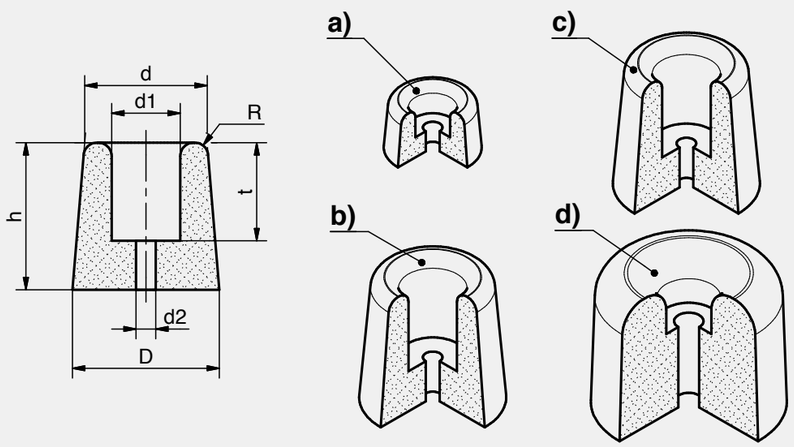


Advantages

- Rubber type bumpers in a variety of dimensions.
- Universal in use and made of rubber, they offer long service lives and an economical answer to many needs.
- Protection against damage to other components when opening and closing hinged hatch covers or doors.
- Used as rubber feet, they absorb vibration, too.
- Vigorous movements are damped.
- Scratches on the floor are prevented.

Materials

- **Rubber Bumpers:** EPDM 30% / NR 70%, black, Shore A 70-80°



Rubber Bumpers

	Part Number	h	D	d	d1	d2	t	R
a)	209-3001.00-00000	12 mm	20 mm	18 mm	10 mm	4 mm	7 mm	2 mm
b)	209-3002.00-00000	30 mm	30 mm	25 mm	14 mm	4 mm	20 mm	2.8 mm
c)	209-3003.00-00000	22.5 mm	20 mm	19 mm	10 mm	4 mm	8 mm	2 mm
d)	209-3004.00-00000	32 mm	40 mm	38 mm	13 mm	6 mm	12 mm	6 mm

Mushroom Type Bumpers EPDM / NR

[5-950.02]

RoHS WEEE

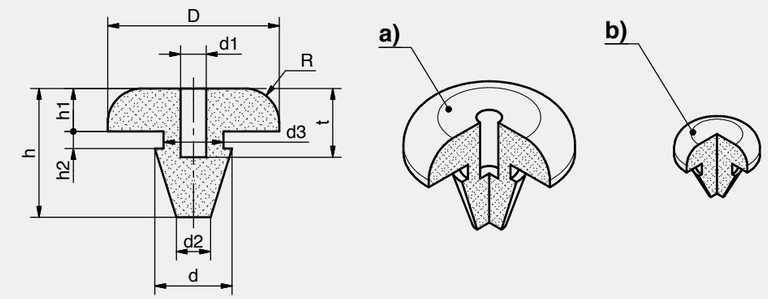


Advantages

- Mushoom type bumpers in a variety of dimensions.
- Universal in use and made of rubber, they offer long service lives and an economical answer to many needs.
- Protection against damage to other components when opening and closing hinged hatch covers or doors.
- Used as rubber feet, they absorb vibration, too.
- Vigorous movements are damped.
- Scratches on the floor are prevented.

Materials

- **Mushroom type bumpers:** EPDM 30% / NR 70%, black, Shore A60°



Mushroom Type Bumpers

	Part Number	D	d	d1	d2	d3	h	h1	h2	t	R
a)	209-3101.00-00000	20 mm	9 mm	3 mm	4 mm	7 mm	15 mm	5 mm	2 mm	8 mm	4 mm
b)	209-3102.00-00000	10 mm	6 mm		2 mm	5 mm	8.5 mm	3 mm	1.5 mm		2 mm

Guidelines for storage, cleaning and maintenance

as per DIN 7716

1. Applicability

The guidelines which follow are applicable to products made both of pure rubber and rubber combined with other products, to elastomers made of natural rubber and/or synthetic rubber as well as to glued or laminated products and solutions.

2. General

The properties of most rubber products will be affected if they are stored under adverse conditions or improperly handled. They may be made unserviceable due to excess hardening, softening, permanent deformation or spalling, fissures or other surface damage.

The changes may be caused by the effects of oxygen, ozone, heat, light, moisture, solvents or storing under tension. If properly stored and handled, rubber products will retain their properties virtually unchanged over several years.

3. Storage area

The storage room should be cool, dry, free of dust and ventilated but not drafty.

3.1. Temperature

The storage temperature should be 15°C and may not exceed 25°C since this could cause a change in the physical properties or could shorten the shelf life. Neither should the storage temperature fall below -10°C. Even lower temperatures are generally not detrimental but the products could become extremely stiff. Chilled products should gradually be brought up to a temperature of 20°C. Adhesives and solutions may never be colder than 0°C; the minimum storage temperature for products made of certain chloroprene rubber compounds may, under certain circumstances, be 12°C.

3.2. Heating

Where the storage area is heated, radiators and piping should be shielded. The heat sources in the storage areas should be engineered so that the temperature of the items in storage does not exceed 25°C. Minimum clearance between the heat source and the stored products is 1 m.

3.3. Moisture

Storing rubber products in damp storage rooms should be avoided. No condensation may form. Relative humidity should be less than 65%.

3.4. Lighting

The rubber products should be protected against light, and in particular, against the sun's direct rays and strong artificial illumination with a high share of ultraviolet light. It is for this reason that the windows in storerooms should be covered with a red or orange (never blue) coating or film. All sources which emit light in the ultraviolet spectrum are damaging to rubber. Preference is to be given to using standard incandescent lamps for illumination.

3.5. Oxygen and ozone

Rubber products should be protected against changes in room air and above all against drafts; this may be done by placing them in protective bags or envelopes or in airtight containers. This applies in particular to items with a large surface area in relationship to the volume such as rubberized items or cellular materials. Since ozone is particularly detrimental, no equipment which generates ozone may be present in storerooms; examples of such sources include fluorescent illumination, mercury vapor lamps, electric motors or other devices which could create arcs or electrical discharges. Combustion gases and vapors which could liberate ozone through photo-chemical processes should be removed. Solvents, fuels, lubricants, chemicals, acids, disinfectants and the like may not be stored in the storeroom. Rubber solutions must be stored in a separate room, observing regulations on the storage and movement of flammable fluids.

4. Storage

It is important to ensure that rubber products are free of strain when stored, i.e., not subject to tension, pressure or other stresses since strain can promote permanent deformation and fissuring. Certain metals, and copper and manganese in particular, are damaging to rubber products. It is for this reason that rubber products may not be in contact with these metals during storage but will rather have to be protected by adequate packaging or isolation with a layer of a suitable material such as paper or polyethylene. The materials used in the containers for the packing and covering materials may not contain any components damaging to rubber, such as copper or copper alloys. Gasoline, oil and the like, and films containing plasticizers may not be used for packaging. If powder is applied to rubber products, then the powder may not contain any components which would be damaging to the rubber products. Products suitable for use as powder are talcum powder, prepared chalk (Spanish white), fine-grain mica flour and rice starch. Contact between rubber products made up of differing compounds should be avoided; this is particularly true for products of different colors. The period in storage should be kept as short as possible. During longer storage periods, it is necessary to insure that newly arrived products are stored separate from those previously on hand.

5. Cleaning and maintenance

Rubber products may be cleaned with soap and warm water and then allowed to dry at room temperature.

After a longer period in storage (6 to 8 months), the products can be cleaned with a 1.5% solution of sodium bicarbonate. Residues from this cleaning solution are to be rinsed away with water. Effective and particularly gentle cleaning agents can be recommended by the manufacturer. Solvents such as trichloroethylene, carbon tetrachloride and hydrocarbons may not be used for cleaning. Do not use sharp or abrasive objects such as wire brushes, sandpaper, etc.

Explanations and instructions

Elastomer designation in accordance with ASTM D 1418-76

CR	Polychlorinated butadiene e.g. Neoprene
EPDM	Ethylene-propylene terpolymers e.g. Keltan
NBR	Acrylonitrile butadiene copolymers e.g. Perbunan
NR	Natural rubber (polyisoprene)

Elastomers and their properties

Chemical designation	Natural rubber	Nitrile rubber	Chloroprene rubber	Ethylene-Propylene-diene-rubber
Acronym according to ASTM D 1418	NR	NBR	CR	EPDM
Hardness range (Shore A) +/-5	40-90	45-90	40-90	40-85
Tear resistance N/mm²	4-15	4-14	5-15	6-13
Rebound resilience at 20°C	++	0	+	+
Abrasion resistance	++	+	+	+
Elastic properties	++	+	+	+
Chemical resistance [A]	+	0	+	++
Resistance to oil [A]	-	++	+	-
Resistance to fuels [A]	none	+	-	-
Solvent resistance [A]	-	+	+	0
Temperature resistance °C [B]	-40 to +80	-30 to +100	-25 to +100	-40 to +100
Ozone resistance	0	0	++	++
Gen. weathering resistance	+	+	++	++
Gas impermeability	0	+	+	0
Resistance to permanent deformation [C]	++	+	+	+
Bonding to metal	++	0	+	0
Dielectric properties	++	-	0	++

Explanation of symbols

A = Because of the numerous possible chemicals, solvents, application-temperatures and duration, the values stated may vary in individual cases. In particular, a type of elastomer that generally displays a low resistance may be very resistant to certain media.

B = These are limits that may fluctuate according to the composition of the mixture. Continuous use at limit levels brings about a change in the physical values. Special elastomer mixtures are necessary for extreme loads.

C = In general, the resistance declines at relatively low or high temperatures.

++ = excellent to very good

\+ = good

o = satisfactory to moderate

\- = low to poor

Factory Tolerances

The purpose of the subsequently compiled tolerances from the respective standard is to facilitate the quick assignment of tolerated dimensional deviations.

(Not applicable to drawing with fixed tolerances.)

Mouled rubber parts based on DIN 7715 M4

Nominal range [mm]	Tolerance ± [mm]
– 6.3	0.5
> 6.3 – 10.0	0.7
> 10.0 – 16.0	0.8
> 16.0 – 25.0	1.0
> 25.0 – 40.0	1.3
> 40.0 – 63.0	1.6
> 63.0 – 100.0	2.0
> 100.0 – 160.0	2.5
> 160	1.5 %

Solid rubber profiles (cross section) based on DIN ISO 3302-1 E2

Nominal range [mm]	Tolerance ± [mm]
– 1.5	0.25
> 1.5 – 2.5	0.35
> 2.5 – 4.0	0.40
> 4.0 – 6.3	0.50
> 6.3 – 10.0	0.70
> 10.0 – 16.0	0.80
> 16.0 – 25.0	1.00
> 25.0 – 40.0	1.30
> 40.0 – 63.0	1.60
> 63.0 – 100.0	2.00

Sponge rubber (cross section) based on DIN ISO 3302-1 E3

Nominal range [mm]	Tolerance ± [mm]
– 1.5	0.4
> 1.5 – 2.5	0.5
> 2.5 – 4.0	0.7
> 4.0 – 6.3	0.8
> 6.3 – 10.0	1.0
> 10.0 – 16.0	1.3
> 16.0 – 25.0	1.6
> 25.0 – 40.0	2.0
> 40.0 – 63.0	2.5
> 63.0 – 100.0	3.2

Tolerances for custom lenght (rubber) based on DIN ISO 3302-1 L3

Nominal range [mm]	Tolerance ± [mm]
– 40	1.6
> 40 – 63	2.0
> 63 – 100	2.5
> 100 – 160	3.2
> 160 – 250	4.0
> 250 – 400	5.0
> 400 – 630	6.3
> 630 – 1000	10.0
> 1000 – 1600	12.5
> 1600 – 2500	16.0
> 2500 – 4000	20.0
> 4000	2 %

PVC-Profiles (cross section) based on DIN 16941 3A and 3B

Nominal range [mm]	Tolerance ± [mm]
– 3	0.4
> 3 – 6	0.6
> 6 – 10	0.7
> 10 – 18	0.8
> 18 – 30	1.0
> 30 – 50	1.2
> 50 – 80	1.5
> 80 – 120	1.9
> 120 – 180	2.3
> 180 – 250	2.8
> 250 – 320	3.5
> 320	1.4 %

Tolerances for custom length (PVC) based on DIN 16941 4B

Nominal range [mm]	Tolerance ± [mm]
– 400	5.0
> 400 – 1000	10.0
> 1000 – 2500	20.0
> 2500 – 6000	30.0
> 6000	2 %



Edge Protections PVC

See page 676

Gaskets

Handles





DST

DIRAK-SNAP-Technology.

Simple. Secure.

Variable length …

Modular handle design allows for flexibility with the length for limitless applications …

Page 714–716

… and simply installed.

… quickly and securely mounted with DST.

Page 715

Stay grounded.

The flush-mounted foldable handle is ideal for installation in floor panel applications.

Page 711





Unique. Modular. Elegant.

The DST Quarter-Turn with Handle uniquely combines the security of a quarter-turn latch with an aesthetically designed handle into one product. DST ensures easy and reliable installation.

Page 134

Handles

Handles by Material

Polyamide

Page: **692–695, 707, 710, 712**

Aluminium

Page: **696–703**

Zinc die

Page: **704–709, 711, 713**

Polyamide/ Steel

Page: **714–716**

Overview



692 Bridge Handle PA [6-1000]



693 Bridge Handle PA [6-1000.01]



694 DST Bridge Handle [6-1001DST]



695 PA Bridge Handle [6-1031]



696 Bridge handle [6-1102]



697 Bridge handle [6-1103]



698 Bridge handle [6-1104]



699 Bridge handle [6-1105]



700 Bridge handle [6-1106]



701 Finger Pull Handle [6-1107]



702 Bridge handle [6-1108]



703 Finger Pull Handle [6-1109]



704 Bridge handle [6-1131]



705 DST Bridge Handle [6-1171DST]



706 DST Bridge Handle [6-1133DST]



707 DST Finger Pull Handle OMEGA [6-1200.01DST]



708 DST Finger Pull Handle OMICRON [6-1200.02DST]



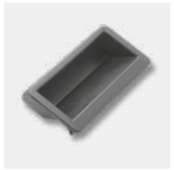
709 DST Finger Pull Handle [6-1300DST]



710 DST Revolving Pull Handle [6-1330DST]



711 Hinged Recessed Handle, flush mounted [6-1380]



712 Dish Handle PA [6-1410]



713 DST Grip Handles [6-1500DST]



714 Handle [6-1600.01]



715 DST Handle [6-1600DST]



716 Handle, bent [6-1600.02]

Bridge Handle PA

[6-1000]

RoHS WEEE



Advantages

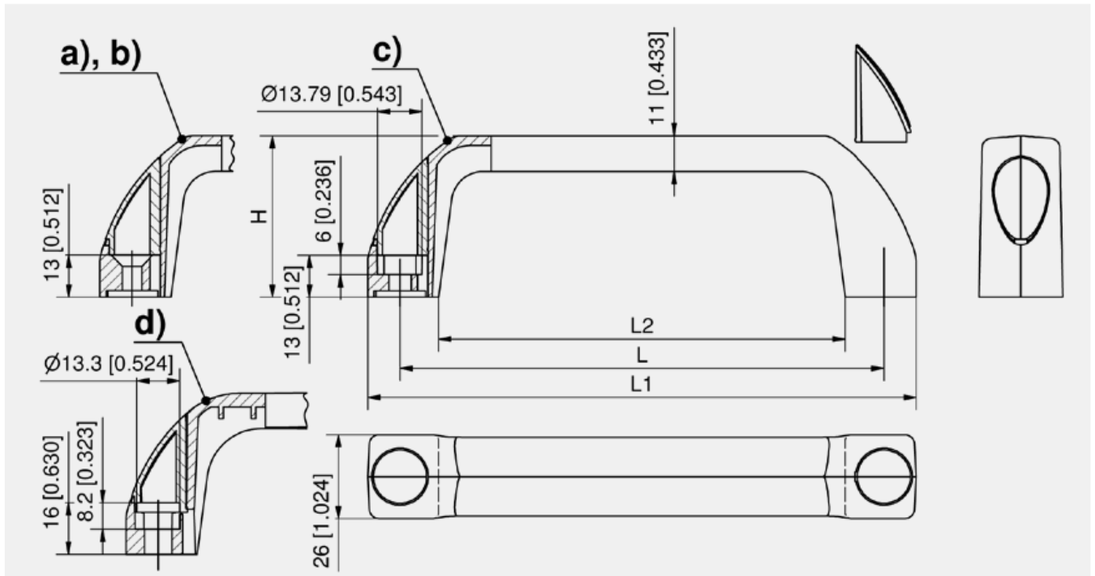
- Polyamide handle, two sizes.
- For vertical and horizontal applications.
- Insensitive to dirt and easy to clean due to sloping surfaces and transition radii.
- Corrosion-resistant.
- Screws are covered by plugs.
- Plugs clip into the handle tool-less.

Materials

- **Bridge handle:** PA, black

Remarks

Fastening by hex. socket head screws DIN 7984, hex. socket head screws DIN EN ISO 4762, hex. head screws DIN 931 and / or countersunk screws DIN EN ISO 10642.



Polyamide handle complete, with 2 plugs

	Part Number	Fastening type	L	L1	L2	H
a)	213-9207.00-00000	Countersunk screws M5	122 mm	142 mm	98 mm	41 mm
a)	213-9204.00-00000	Countersunk screws M5	122 mm	142 mm	98 mm	50 mm
a)	213-9202.00-00000	Countersunk screws M5	150 mm	170 mm	126 mm	50 mm
b)	213-9205.00-00000	Countersunk screws M6	122 mm	142 mm	98 mm	50 mm
c)	213-9206.00-00000	Hex. socket head cap screws / hex. screws M6	122 mm	142 mm	98 mm	41 mm
c)	213-9203.00-00000	Hex. socket head cap screws / hex. screws M6	122 mm	142 mm	98 mm	50 mm
c)	213-9201.00-00000	Hex. socket head cap screws / hex. screws M6	150 mm	170 mm	126 mm	50 mm
d)	350-2040.00-00000	Cylinder head screws M8	179 mm	199 mm	155 mm	50 mm

+	Accessories
	747 6-041 **Countersunk Screws and Hexagon Nuts**

Bridge Handle PA

[6-1000.01]

RoHS WEEE



Polyamide, with 2 plugs

Advantages

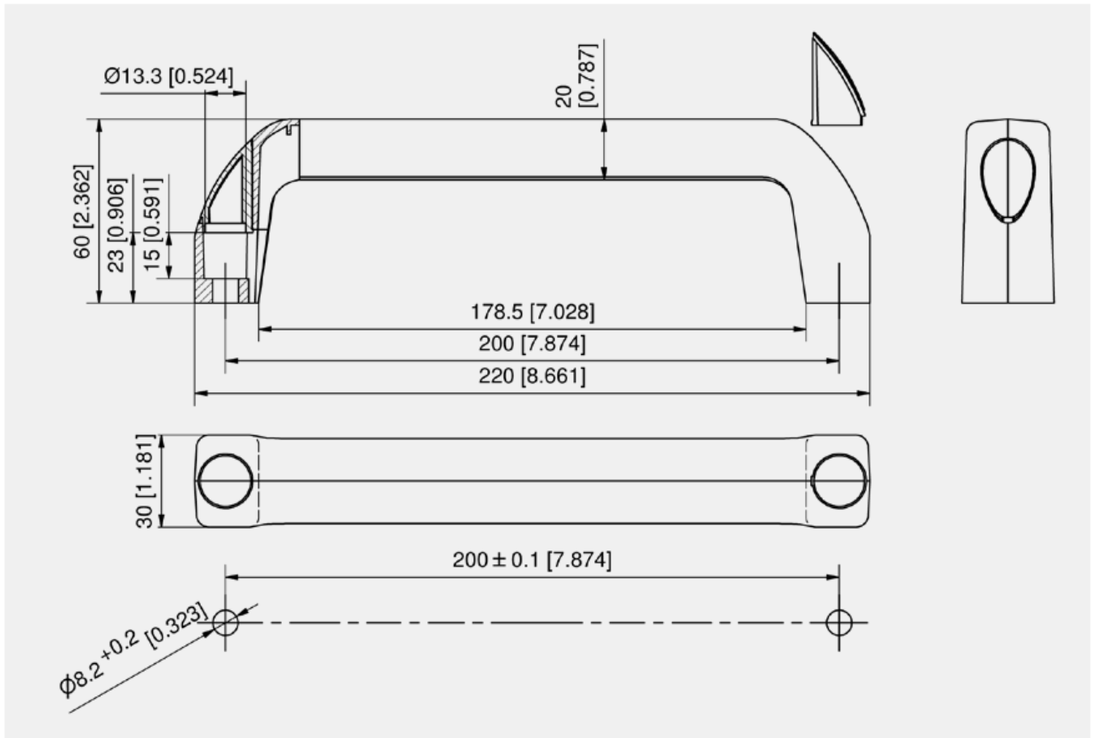
- For vertical and horizontal applications.
- Insensitive to dirt and easy to clean due to sloping surfaces and transition radii.
- Corrosion-resistant.
- Srews are covered by plugs.
- Plugs clip into the handle tool-less.

Materials

Handle and plugs: PA, grey (RAL 7001) or black, matt

Remarks

For socket-head screw DIN7984 M8



Polyamide handle complete, with 2 plugs

Part Number	Surface	Fastening type	L	L1	L2	H
352-2151.03-00000	grey RAL 7001	Cylinder head screws M8	200 mm	220 mm	178.5 mm	60 mm
352-2151.03-00001	black	Cylinder head screws M8	200 mm	220 mm	178.5 mm	60 mm

DST Bridge Handle

[6-1001DST]

DST

DIN 61373

RoHS WEEE



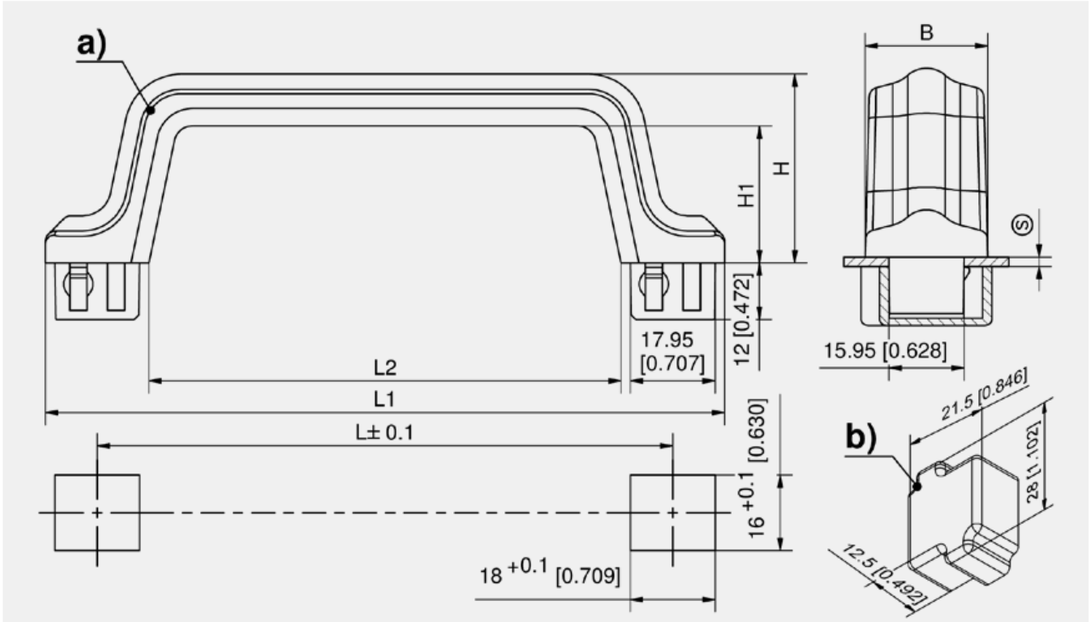
tool-less installation

Advantages

- Polyamide handle with DIRAK-SNAP-Technology, two sizes.
- The appealing design guarantees a firm and reliable grab.
- The closed surface makes it insensitive to dirt and easy to clean.
- Lowest inside radius 5mm.
- Designed for vertical or horizontal uses.
- The installation is effected by a simple push into appropriate cutouts.
- Handle for variable lengths in the same design see product system 6-1600DST.
- Vibration-proof according to DIN EN 61373.

Materials

- **Bridge Handle:** PA, black
- **Snap wedges:** sintered steel
- **Cap:** PA black



Polyamide handle

	Part Number	Clamping range	L	L1	L2	H	H1	B	Installation type
a)	413-9003.00-00015	0.8 - 1.5 mm	122 mm	144 mm	100 mm	40 mm	29 mm	26 mm	tool-less
a)	413-9003.00-00020	1.3 - 2.0 mm	122 mm	144 mm	100 mm	40 mm	29 mm	26 mm	tool-less
a)	413-9003.00-00027	2.0 - 2.7 mm	122 mm	144 mm	100 mm	40 mm	29 mm	26 mm	tool-less
a)	413-9004.00-00015	0.8 - 1.5 mm	150 mm	172 mm	128 mm	50 mm	39 mm	28 mm	tool-less
a)	413-9004.00-00020	1.3 - 2.0 mm	150 mm	172 mm	128 mm	50 mm	39 mm	28 mm	tool-less
a)	413-9004.00-00027	2.0 - 2.7 mm	150 mm	172 mm	128 mm	50 mm	39 mm	28 mm	tool-less

Accessory Polyamide handle

	Part Number	Type	Material	Surface	Fastening type
b)	413-0901.54-00000	Cap	PA	black	tool-less

PA Bridge Handle

[6-1031]

RoHS WEEE

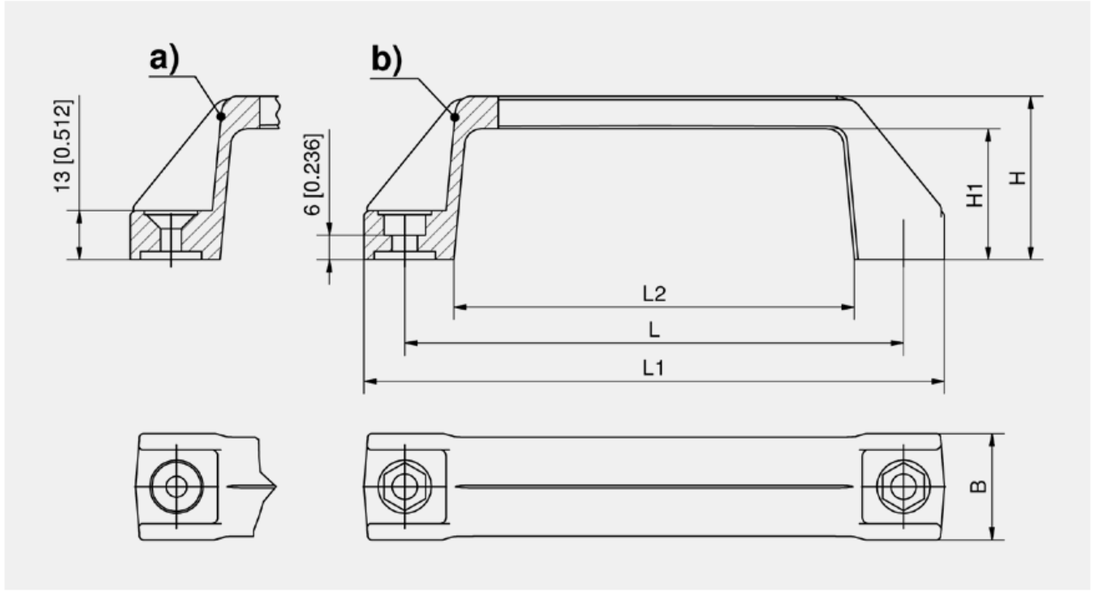


Advantages

- Polyamide handle, two sizes.
- a) Fastening with cap screws DIN 7984, cap screws DIN ISO 4762, hexagon head screws DIN 931 SW10.
- b) Fastening countersunk head screws DIN EN ISO 10642.

Materials

- **Bridge handle:** PA, black



Bridge handle

	Part Number	Fastening type	L	L1	L2	H	H1	B
a)	213-0202.03-00000	Countersunk screws M5	122 mm	142 mm	98 mm	40 mm	32 mm	26 mm
b)	213-0201.03-00000	Hex. socket head screws M6	122 mm	142 mm	98 mm	40 mm	32 mm	26 mm
a)	213-0204.03-00000	Countersunk screws M5	150 mm	170 mm	120 mm	52 mm	42 mm	28 mm
b)	213-0203.03-00000	Hex. socket head screws M6	150 mm	170 mm	120 mm	52 mm	42 mm	28 mm

Accessories
747 6-041 **Countersunk Screws and Hexagon Nuts**

Bridge handle

[6-1102]

RoHS WEEE



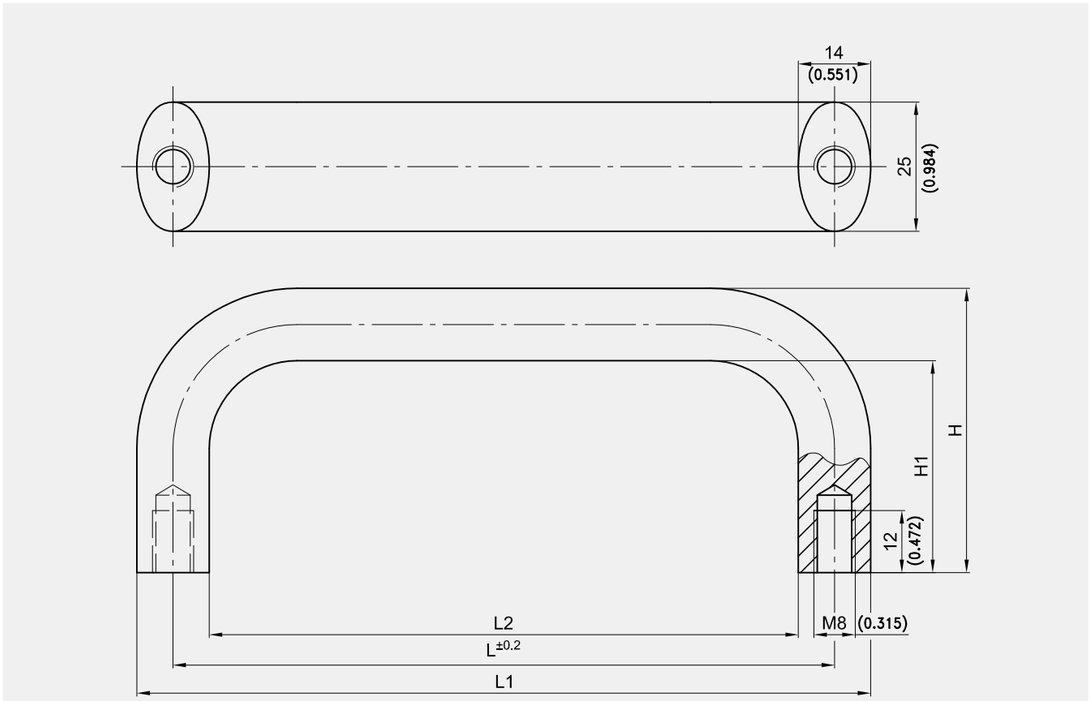
Aluminium

Advantages

- Solid aluminium handle, modern industrial design.
- Handles for hospital equipment, medical and food processing technology.
- Designed for vertical or horizontal uses.
- For screws M8.
- Additional lengths on request.

Materials

- **Bridge handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**



Bridge handle, ellipse

Part Number	Thread size handle	L	L1	L2	H	H1
213-0514.96-00112	M8	112 mm	126 mm	98 mm	55 mm	41 mm
213-0514.96-00128	M8	128 mm	142 mm	114 mm	55 mm	41 mm
213-0514.96-00160	M8	160 mm	174 mm	146 mm	55 mm	41 mm

Bridge handle

[6-1103]

RoHS WEEE



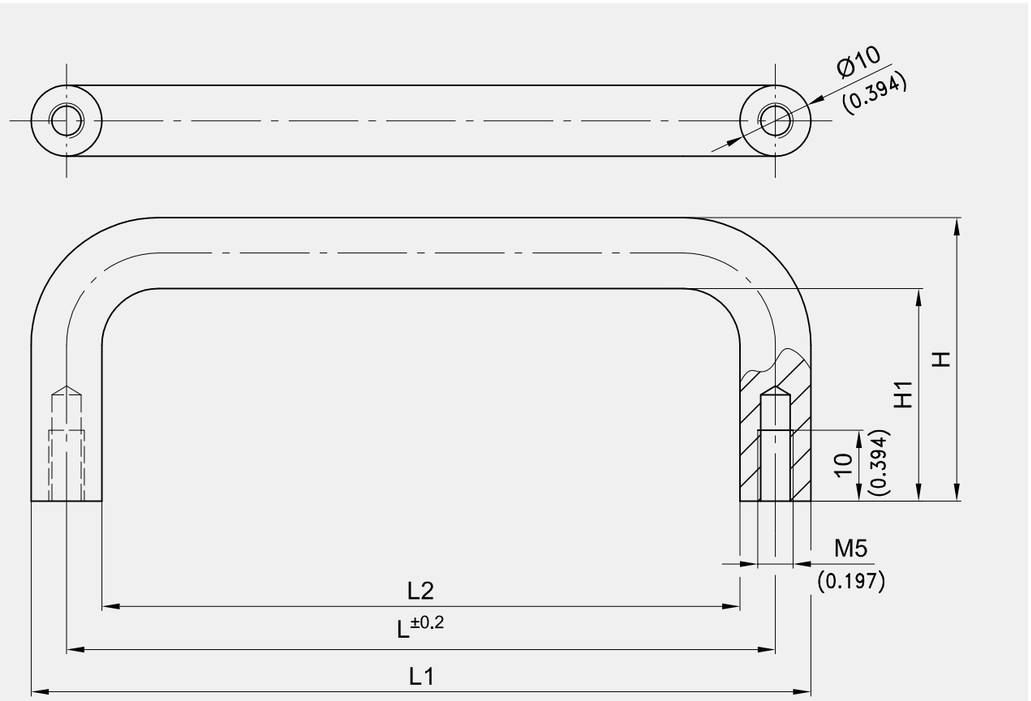
Aluminium

Advantages

- Solid aluminium handle, modern industrial design.
- Handles for hospital equipment, medical and food processing technology.
- Designed for vertical or horizontal uses.
- For screws M5.

Materials

- **Bridge handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**



Bridge handle, round

Part Number	Thread size handle	L	L1	L2	H	H1
213-0517.96-00100	M5	100 mm	110 mm	90 mm	40 mm	30 mm

Bridge handle

[6-1104]

RoHS WEEE



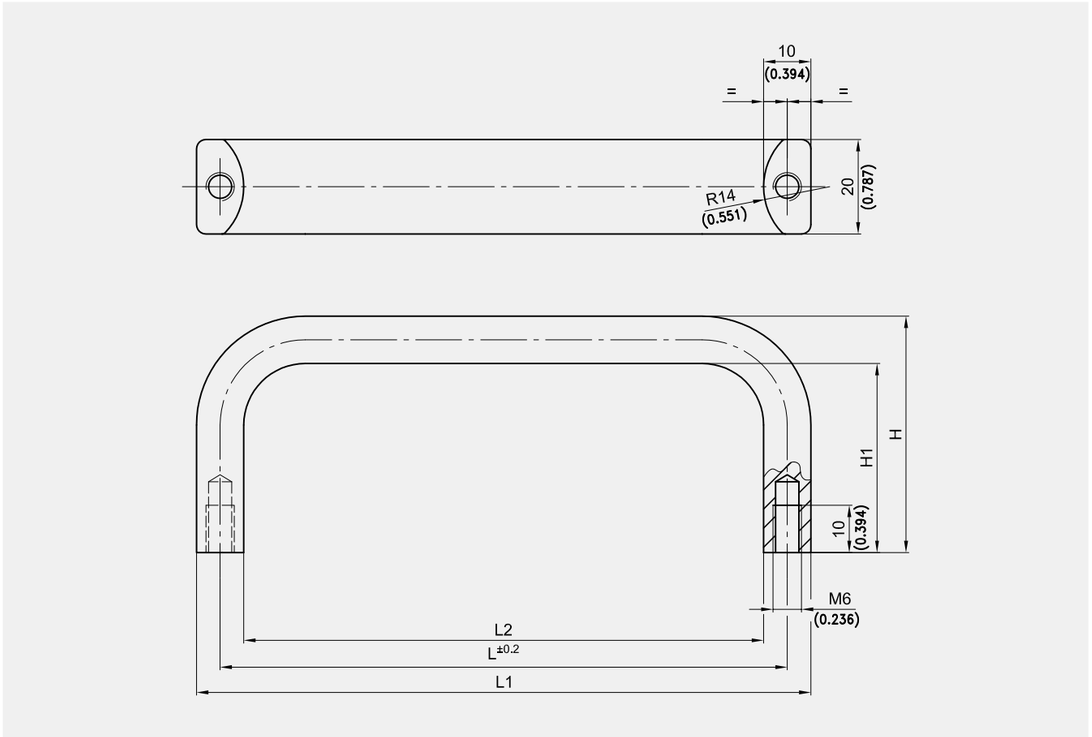
Aluminium

Advantages

- Solid aluminium handle, modern industrial design.
- Handles for machine building, tool building, electrical industry, hospital equipment, medical and food processing technology.
- Designed for vertical or horizontal uses.
- For screws M6.

Materials

- **Bridge handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**



Bridge handle, half round

Part Number	Thread size handle	L	L1	L2	H	H1
213-0513.96-00112	M6	112 mm	122 mm	102 mm	50 mm	40 mm
213-0513.96-00128	M6	128 mm	138 mm	118 mm	50 mm	40 mm
213-0513.96-00160	M6	160 mm	170 mm	150 mm	50 mm	40 mm

Bridge handle

[6-1105]

RoHS WEEE



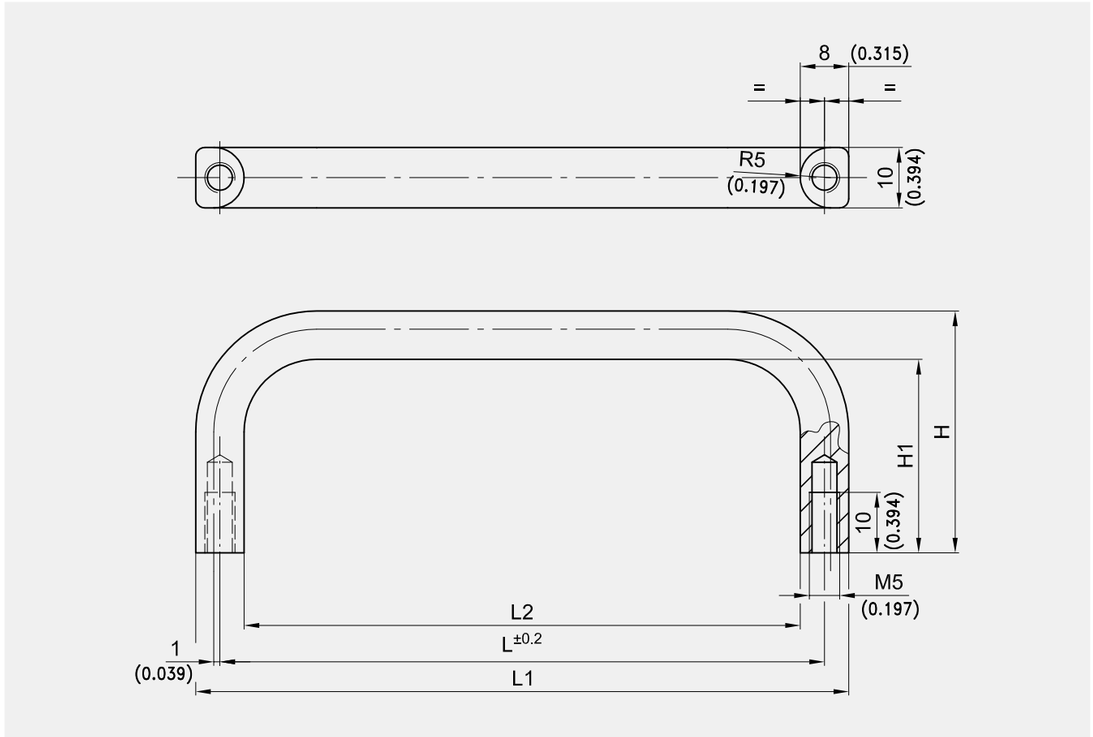
Aluminium

Advantages

- Solid aluminium handle, modern industrial design.
- Handles for hospital equipment, medical and food processing technology.
- Designed for vertical or horizontal uses.
- For screws M5.

Materials

- **Brigde handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**



Bridge handle, half round

Part Number	Thread size handle	L	L1	L2	H	H1
213-0516.96-00100	M5	100 mm	108 mm	92 mm	40 mm	32 mm

Bridge handle

[6-1106]

RoHS WEEE



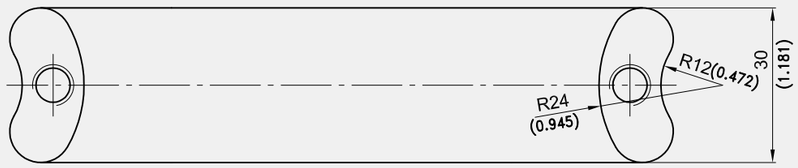
Aluminium

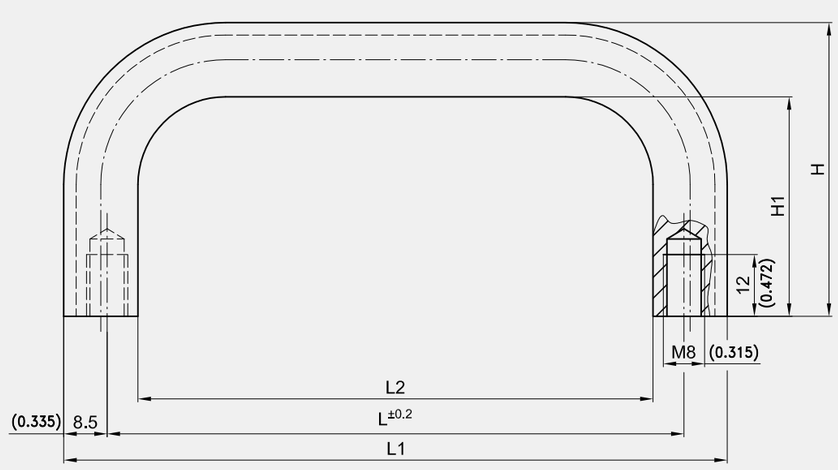
Advantages

- Solid aluminium handle.
- The appealing kidney-shaped design makes it human-engineering and easy to use.
- Handles for machine building, tool building, electrical industry, hospital equipment, medical and food processing technology.
- Designed for vertical or horizontal uses.
- For screws M8.

Materials

- **Bridge handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**





Bridge handle

Part Number	Thread size handle	L	L1	L2	H	H1
213-0515.96-00128	M8	128 mm	145 mm	116 mm	57 mm	42.5 mm
213-0515.96-00160	M8	160 mm	177 mm	148 mm	57 mm	42.5 mm
213-0515.96-00192	M8	192 mm	209 mm	180 mm	57 mm	42.5 mm
213-0515.96-00350	M8	350 mm	367 mm	338 mm	57 mm	42.5 mm
213-0515.96-00500	M8	500 mm	517 mm	488 mm	57 mm	42.5 mm

Finger Pull Handle

[6-1107]

RoHS WEEE



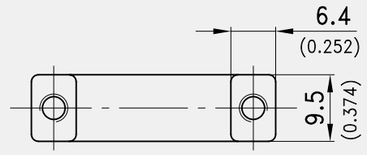
Aluminium

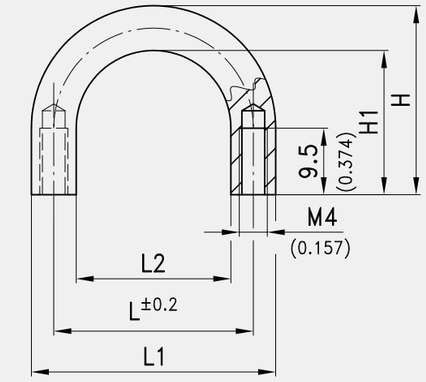
Advantages

- Solid aluminium handle, modern industrial design.
- This handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Designed for vertical or horizontal uses.
- For screws M4.

Materials

- **Finger pull handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**





Finger Pull Handle

Part Number	Thread size handle	L	L1	L2	H	H1
213-0510.96-00285	M4	28.5 mm	35 mm	22.2 mm	27 mm	20.5 mm

Bridge handle

[6-1108]

RoHS WEEE



Aluminium

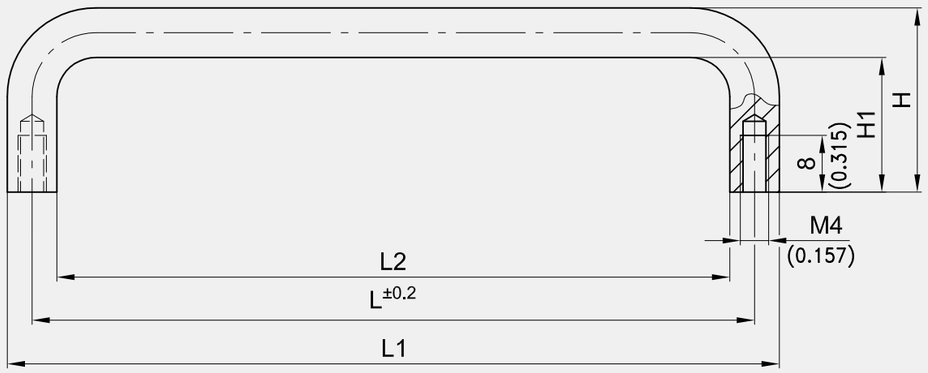
Advantages

- Solid aluminium handle, modern industrial design.
- This handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Designed for vertical or horizontal uses.
- For screws M4.
- Finger pull handle in same design see product system 6-1109.

Materials

- **Bridge handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**





Bridge handle

Part Number	Thread size handle	L	L1	L2	H	H1
213-0512.96-00096	M4	96 mm	103 mm	89 mm	26 mm	19 mm
213-0512.96-00128	M4	128 mm	135 mm	121 mm	26 mm	19 mm

Finger Pull Handle

[6-1109]

RoHS WEEE



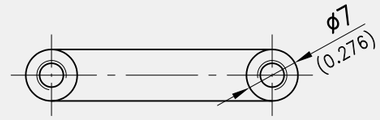
Aluminium

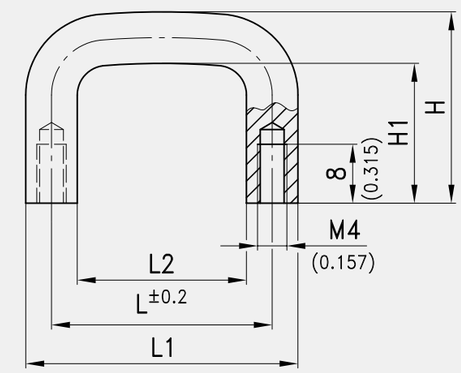
Advantages

- Solid aluminium handle, modern industrial design.
- This handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Designed for vertical or horizontal uses.
- For screws M4.
- Bridge Handle in same design see product system 6-1108.

Materials

- **Finger pull handle:** aluminium, anodized natural (silver)
- **Other surfaces on request.**





Finger Pull Handle

Part Number	Thread size handle	L	L1	L2	H	H1
213-0511.96-00030	M4	30 mm	37 mm	23 mm	26 mm	19 mm
213-0511.96-00064	M4	64 mm	71 mm	57 mm	26 mm	19 mm

Bridge handle

[6-1131]

RoHS WEEE



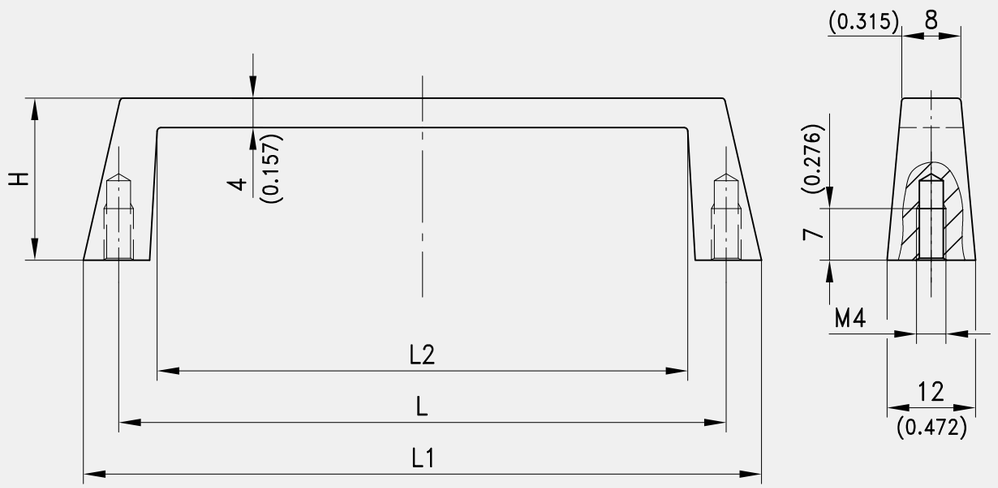
zinc die

Advantages

- Bridge handles, screw-on.

Materials

- **Bridge handle:** zinc die, chrome plated or black



Bridge handle

Part Number	Surface	Thread size handle	L	L1	L2	H
213-0303.31-00000	chrome plated	M4	81 mm	93 mm	72 mm	22 mm
213-0303.33-00000	black	M4	81 mm	93 mm	72 mm	22 mm
213-0302.31-00000	chrome plated	M4	95.5 mm	106 mm	85 mm	24 mm
213-0302.33-00000	black	M4	95.5 mm	106 mm	85 mm	24 mm

DST Bridge Handle

[6-1171DST]

DST

RoHS WEEE



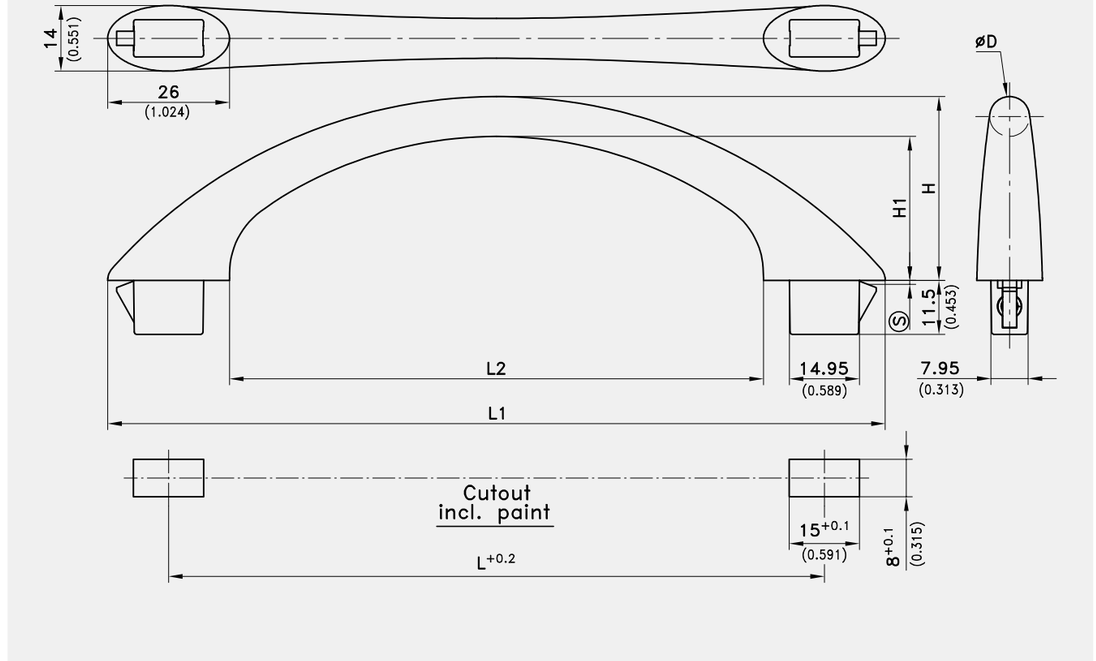
tool-less installation

Advantages

- Elegant bowed handle with DIRAK-SNAP-Technology.
- Ssurface matt chrome plated.
- Designed for vertical or horizontal uses.
- The installation is effected by a simple push into appropriate cutouts.

Materials

- **Handle:** zinc die, matt chrome plated
- **Other surfaces on request.**
- **Snap wedges:** sintered steel



Bridge handle

Part Number	Clamping range	L	L1	L2	H	H1	D	Installation type
413-9017.00-00815	0.8 - 1.5 mm	140 mm	166 mm	114 mm	39.5 mm	31 mm	8.5 mm	tool-less
413-9017.00-01320	1.3 - 2.0 mm	140 mm	166 mm	114 mm	39.5 mm	31 mm	8.5 mm	tool-less
413-9017.00-01522	1.5 - 2.2 mm	140 mm	166 mm	114 mm	39.5 mm	31 mm	8.5 mm	tool-less
413-9018.00-00815	0.8 - 1.5 mm	180 mm	206 mm	154 mm	45.5 mm	35.5 mm	10 mm	tool-less
413-9018.00-01320	1.3 - 2.0 mm	180 mm	206 mm	154 mm	45.5 mm	35.5 mm	10 mm	tool-less
413-9018.00-01522	1.5 - 2.2 mm	180 mm	206 mm	154 mm	45.5 mm	35.5 mm	10 mm	tool-less

DST Bridge Handle

[6-1133DST]



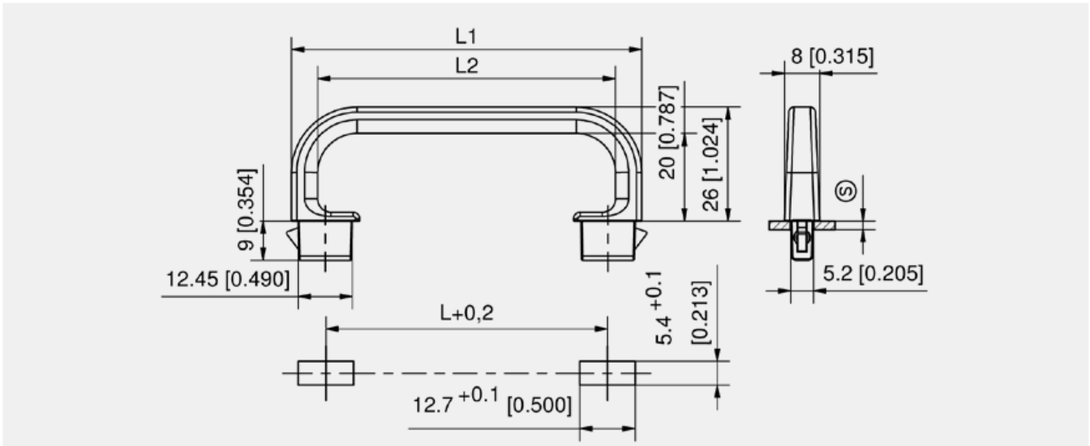
OMICRON, tool-less installation

Advantages

- Elegant bridge handle with DIRAK-SNAP-Technology in different lengths.
- This handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- The installation is effected by a simple push into appropriate cutouts.

Materials

- **Bridge handle:** zinc die
- **Surface:** matt chrome plated
- **Other surfaces on request.**
- **Snap wedges:** sintered steel



Bridge handle

Part Number	Clamping range	L	L1	L2	Installation type
413-9013.40-00609	0.6 - 0.9 mm	39.3 mm	55 mm	43 mm	tool-less
413-9013.40-00811	0.8 - 1.1 mm	39.3 mm	55 mm	43 mm	tool-less
413-9013.40-01215	1.2 - 1.5 mm	39.3 mm	55 mm	43 mm	tool-less
413-9013.40-01821	1.8 - 2.1 mm	39.3 mm	55 mm	43 mm	tool-less
413-9013.40-02225	2.2 - 2.5 mm	39.3 mm	55 mm	43 mm	tool-less
413-9014.40-00609	0.6 - 0.9 mm	64.3 mm	80 mm	68 mm	tool-less
413-9014.40-00811	0.8 - 1.1 mm	64.3 mm	80 mm	68 mm	tool-less
413-9014.40-01215	1.2 - 1.5 mm	64.3 mm	80 mm	68 mm	tool-less
413-9014.40-01821	1.8 - 2.1 mm	64.3 mm	80 mm	68 mm	tool-less
413-9014.40-02225	2.2 - 2.5 mm	64.3 mm	80 mm	68 mm	tool-less
413-9015.40-00609	0.6 - 0.9 mm	89.3 mm	105 mm	93 mm	tool-less
413-9015.40-00811	0.8 - 1.1 mm	89.3 mm	105 mm	93 mm	tool-less
413-9015.40-01215	1.2 - 1.5 mm	89.3 mm	105 mm	93 mm	tool-less
413-9015.40-01821	1.8 - 2.1 mm	89.3 mm	105 mm	93 mm	tool-less
413-9015.40-02225	2.2 - 2.5 mm	89.3 mm	105 mm	93 mm	tool-less

DST Finger Pull Handle OMEGA

[6-1200.01DST]

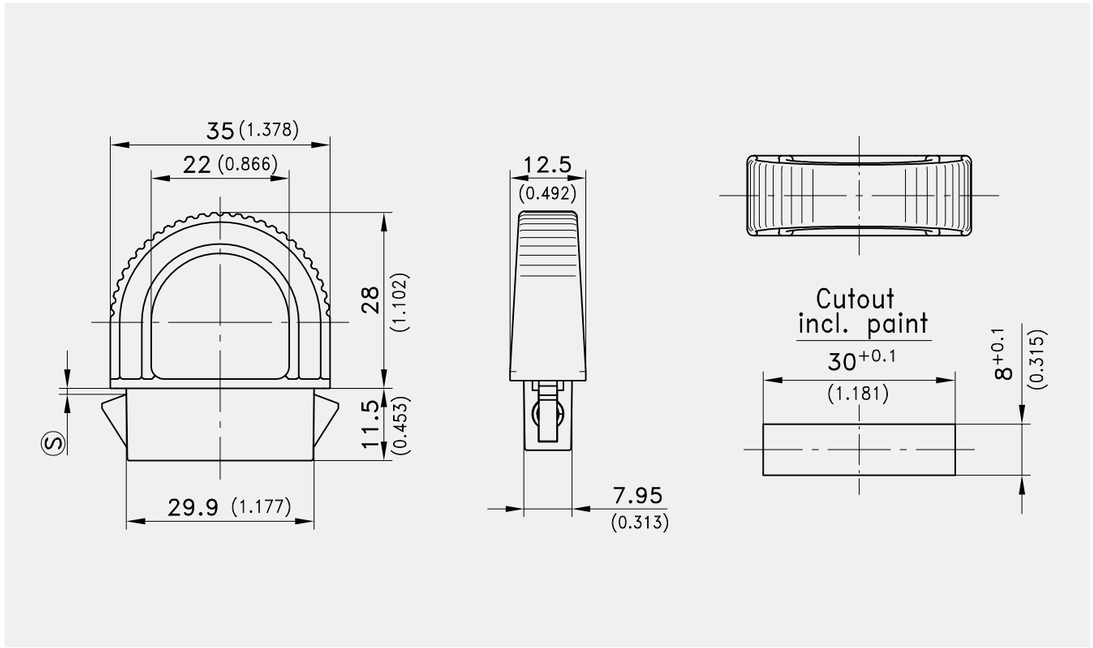


Advantages

- OMEGA small finger pull handles with DIRAK-SNAP-Technology.
- The finger pull handles are suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Installation by a simple push into the cutout.

Materials

- **OMEGA:** zinc die, matt chrome plated or PA black
- **Other surfaces on request.**
- **Snap wedges:** sintered steel



Finger Pull Handle

Part Number	Clamping range	Material	Installation type
413-9001.00-00015	0.8 - 1.5 mm	PA, black	tool-less
413-9001.00-00020	1.3 - 2.0 mm	PA, black	tool-less
413-9001.00-00022	1.5 - 2.2 mm	PA, black	tool-less
413-9008.00-00015	0.8 - 1.5 mm	zinc die, matt chrome plated	tool-less
413-9008.00-00020	1.3 - 2.0 mm	zinc die, matt chrome plated	tool-less
413-9008.00-00022	1.5 - 2.2 mm	zinc die, matt chrome plated	tool-less

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
756	292-0306.80-02530 **Tool for uninstallation**

DST Finger Pull Handle OMICRON

[6-1200.02DST]

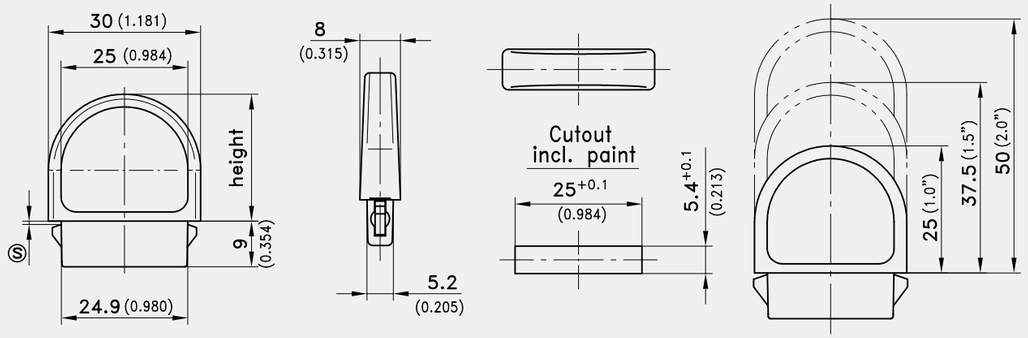


Advantages

- OMICRON small finger pull handles with DIRAK-SNAP-Technology.
- The finger pull handles are suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Installation by a simple push into the cutout.

Materials

- **OMICRON:** zinc die, matt chrome plated
- **Snap wedges:** sintered steel



Finger Pull Handle OMICRON

Part Number	Version	Clamping range	Installation type
413-9009.40-00609	Handle height 25mm	0.6 - 0.9 mm	tool-less
413-9009.40-00811	Handle height 25mm	0.8 - 1.1 mm	tool-less
413-9009.40-01215	Handle height 25mm	1.2 - 1.5 mm	tool-less
413-9009.40-01821	Handle height 25mm	1.8 - 2.1 mm	tool-less
413-9009.40-02225	Handle height 25mm	2.2 - 2.5 mm	tool-less
413-9009.40-02427	Handle height 25mm	2.4 - 2.7 mm	tool-less
413-9010.40-00609	Handle height 37.5mm	0.6 - 0.9 mm	tool-less
413-9010.40-00811	Handle height 37.5mm	0.8 - 1.1 mm	tool-less
413-9010.40-01215	Handle height 37.5mm	1.2 - 1.5 mm	tool-less
413-9010.40-01821	Handle height 37.5mm	1.8 - 2.1 mm	tool-less
413-9010.40-02225	Handle height 37.5mm	2.2 - 2.5 mm	tool-less
413-9010.40-02427	Handle height 37.5mm	2.4 - 2.7 mm	tool-less

Accessories
756 292-0306.80-02530 **Tool for uninstallation**

DST Finger Pull Handle

[6-1300DST]

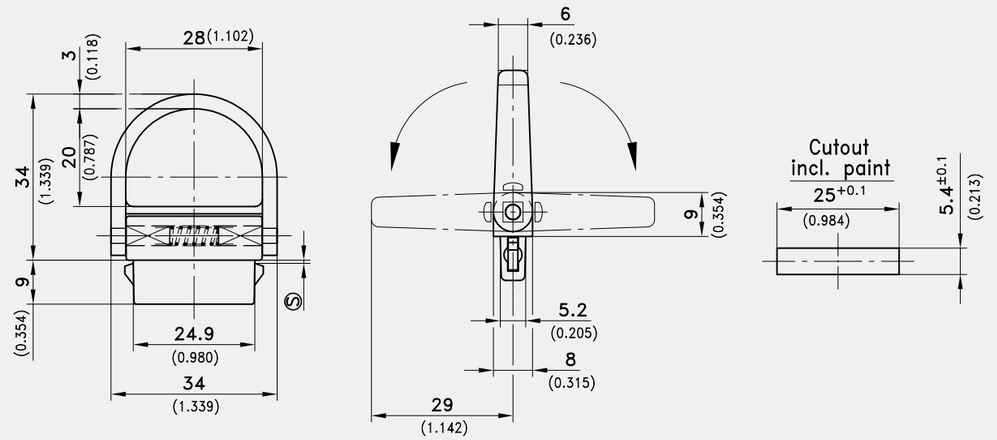


Advantages

- Finger pull with DIRAK-SNAP-Technology, sideways folding.
- Small space requirement.
- This finger pull handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Installation by a simple push into the cutout.

Materials

- **Handle- and snap-part:** zinc die, matt chrome plated
- **Other surfaces on request!**
- **Pins:** steel, zinc plated
- **Spring:** spring steel, zinc plated
- **Snap wedges:** sintered steel



Finger Pull Handle

Part Number	Clamping range	Installation type
413-9016.00-00811	0.8 - 1.1 mm	tool-less
413-9016.00-01215	1.2 - 1.5 mm	tool-less
413-9016.00-01821	1.8 - 2.1 mm	tool-less
413-9016.00-02225	2.2 - 2.5 mm	tool-less

Specific accessories
756 292-0306.80-02530 **Tool for uninstallation**

DST Revolving Pull Handle

[6-1330DST]

DST

RoHS WEEE



Advantages

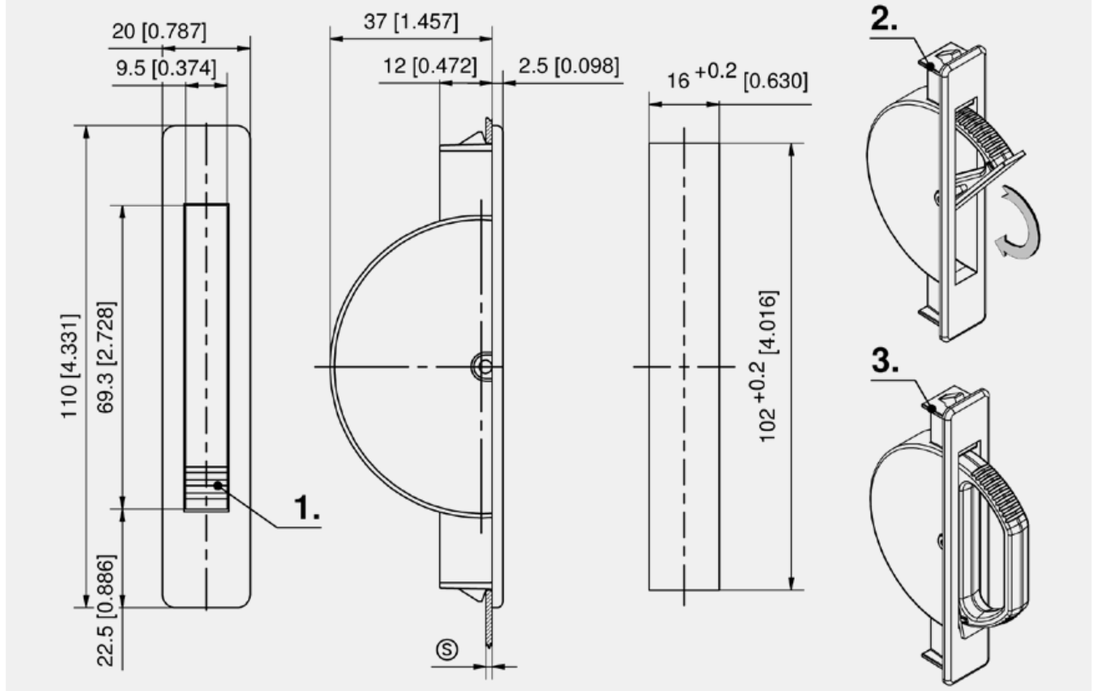
- Revolving Pull Handle with DIRAK-SNAP-Technology
- This handle is suitable for the computer industry, 19" technology, insertions and equipments and other applications.
- Designed for vertical or horizontal uses.
- The corrugation shows the fitting position.
- A soft push on the fluted position makes the handle revolving into the final, open position.
- A soft push makes the swiveled out handle fall back. For closing to a fully flush surface the end of the handle has to be pushed to the housing.
- Installation by a simple push into appropriate cutout.

Materials

- **Handle and dish:** PA, black
- **Pin:** steel, zinc plated
- **Snap wedges:** sintered steel

Remarks

1. Mounting position (fluting at the bottom) and closed
2. open
3. Handle swiveled out



Revolving Pull Handle

Part Number	Clamping range	Installation type
413-9005.00-00015	0.8 - 1.5 mm	tool-less
413-9005.00-00020	1.3 - 2.0 mm	tool-less

Hinged Recessed Handle, flush mounted

[6-1380]

RoHS WEEE



Advantages

- Flush-mounted hinged, recessed handle. Zinc die with or without lock and opening angle about 60° or 80°.
- Designed for vertical or horizontal uses.
- The vibration proof construction makes it possible to use this flush-mounted handle also in special areas such as road vehicles and railcars/ wagons.
- Unauthorized activation of the recessed hinged handle is prevented by an integrated safety Quarter-Turn, which is operated by means of fastener key. This security feature is enhanced by construction, which also prevents accumulation of dirt due to the completely closed housing surface.

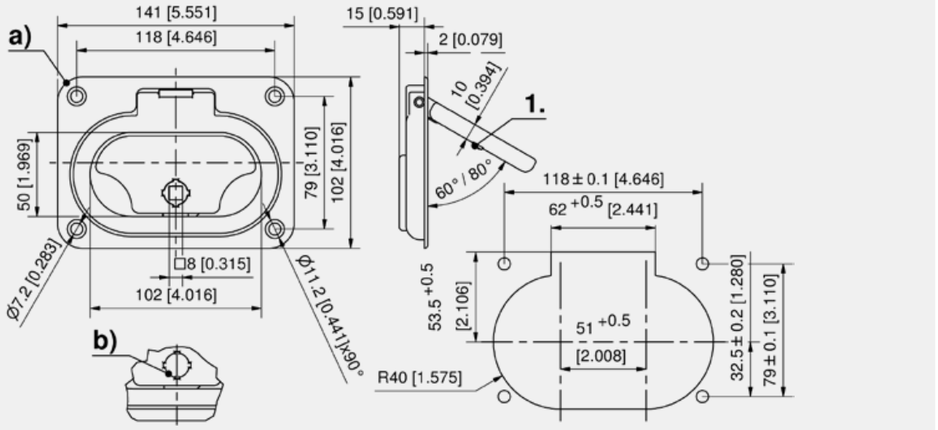
Materials

- **Hinged recessed handle:** zinc die, chrome plated or black

Remarks

Weight: 510g.

1. Rubber Bumper



Hinged recessed handle, opening angle 60°

Part Number	Version	Surface	Installation type
213-9001.00-00060	without latch	chrome plated	screw-on
213-9002.00-00060	without latch	black	screw-on
213-9101.00-00060	with latch	chrome plated	screw-on
213-9102.00-00060	with latch	black	screw-on

Hinged recessed handle, opening angle 80°

Part Number	Version	Surface	Installation type
213-9001.00-00080	without latch	chrome plated	screw-on
213-9002.00-00080	without latch	black	screw-on
213-9101.00-00080	with latch	chrome plated	screw-on
213-9102.00-00080	with latch	black	screw-on

Accessories
758 6-100 **Key**

Dish Handle PA

[6-1410]

RoHS WEEE

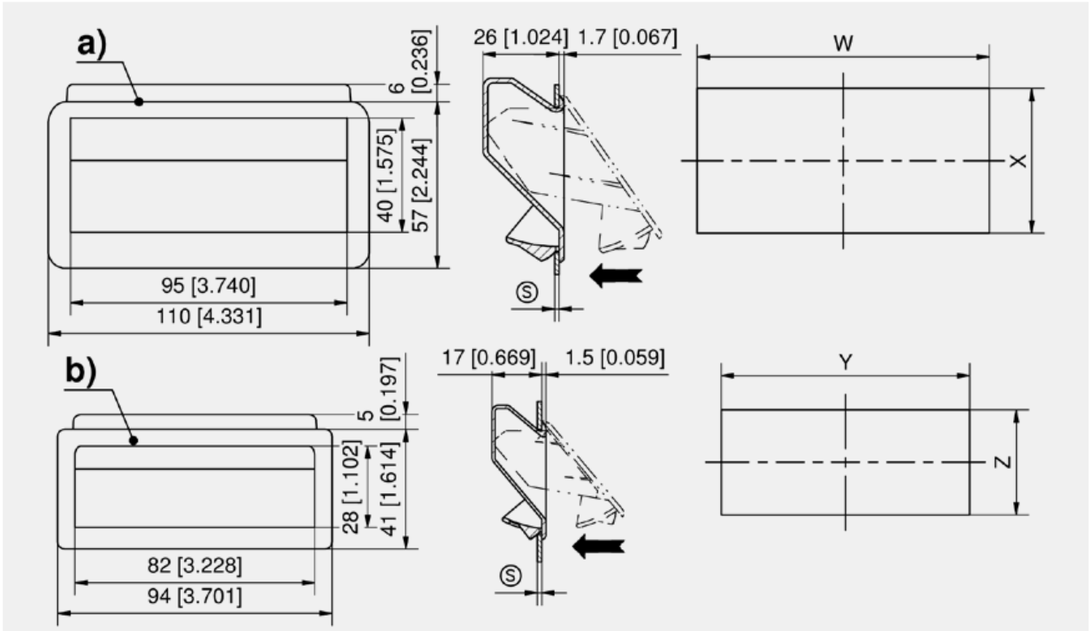


Advantages

- Can be clipped in without tools.
- a) Outside dimensions 110 x 57mm (4.331 x 2.244).
- b) Outside dimensions 94 x 41mm (3.701 x 1.614).
- Suitable for different door-thicknesses.
- The dimensions of the cutouts for different door-thicknesses are indicated in the table.

Materials

- **Dish handle:** PA, black



door-thickness mm [inch]	W	X
1.5-2.0 [0.059-0.079]	100+0.5[3.937]	49.6+0.2[3.937]
2.0-3.2 [0.079-0.126]	100+0.5[3.937]	50.3+0.3[1.980]
3.2-3.5 [0.126-0.138]	100+0.5[3.937]	51.0+0.3[2.008]

door-thickness mm [inch]	Y	Z
0.75-0.79[0.030-0.079]	85+0.2[3.346]	34.8+0.2[1.370]
0.8-1.4[0.032-0.055]	85+0.2[3.346]	35+0.2[1.378]
1.5-2.2[0.059-0.087]	85+0.2[3.346]	36+0.3[1.417]

Dish Handle

	Part Number	Dimension	Installation type
a)	213-0705.51-00000	110 x 57mm	clip-in
b)	213-0703.03-00000	94 x 41mm	clip-in

DST Grip Handles

[6-1500DST]

DST

RoHS WEEE

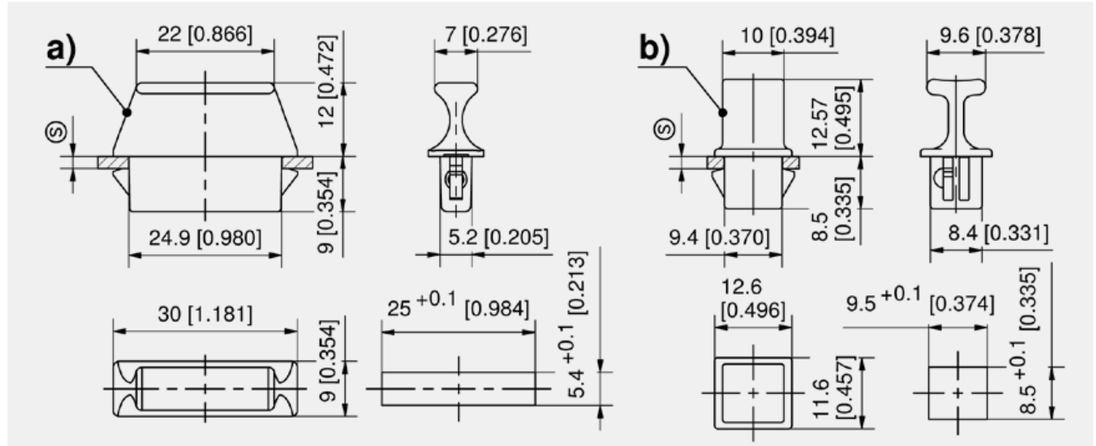


Advantages

- Flat grip handles with DIRAK-SNAP-Technology for 19" technology.
- Tool-less installation.
- Small space requirement.
- Suitable for insertions and equipments and other applications.
- Designed for vertical or horizontal uses.
- To be mounted by a simple push into the appropriate cutout.

Materials

- **Grip handle:** zinc die, matt chrome plated or black
- **Other surfaces on request.**
- **Snap wedges:** sintered steel



Grip Handle, zinc die

	Part Number	Clamping range	Cutout	Surface	Installation type
a)	413-9201.00-00609	0.6 - 0.9 mm	25 x 5,4	matt chrome plated	tool-less
a)	413-9201.00-00811	0.8 - 1.1 mm	25 x 5,4	matt chrome plated	tool-less
a)	413-9201.00-01215	1.2 - 1.5 mm	25 x 5,4	matt chrome plated	tool-less
a)	413-9201.00-01821	1.8 - 2.1 mm	25 x 5,4	matt chrome plated	tool-less
a)	413-9201.00-02225	2.2 - 2.5 mm	25 x 5,4	matt chrome plated	tool-less
b)	413-9202.00-00810	0.8 - 1.0 mm	9,5 x 8,5	matt chrome plated	tool-less
b)	413-9202.00-01113	1.1 - 1.3 mm	9,5 x 8,5	matt chrome plated	tool-less
b)	413-9202.00-01215	1.2 - 1.5 mm	9,5 x 8,5	matt chrome plated	tool-less
b)	413-9202.00-02022	2.2 - 2.5 mm	9,5 x 8,5	matt chrome plated	tool-less
b)	413-9203.00-00810	0.8 - 1.0 mm	9,5 x 8,5	black	tool-less
b)	413-9203.00-01113	1.1 - 1.3 mm	9,5 x 8,5	black	tool-less
b)	413-9203.00-01215	1.2 - 1.5 mm	9,5 x 8,5	black	tool-less
b)	413-9203.00-02022	2.2 - 2.5 mm	9,5 x 8,5	black	tool-less

	Specific accessories
756	292-0306.80-02530 **Tool for uninstallation**

Handle

[6-1600.01]

RoHS WEEE



Advantages

- Handle with Ø30mm in various lengths.
- Designed for vertical or horizontal uses.
- The great diameter of the tube guarantees a sure and firm grab.
- Well-fitting and firm seat of the tube in the center support and the end pieces.
- The center support is optional, but should be applied for tube length over 466mm length.
- Fastening by hex. socket head cap screws M8, or hex. screws or with countersunk screws M8.

Materials

a)
- **End piece:** PA, black

b)
- **Wall end piece:** PA, black

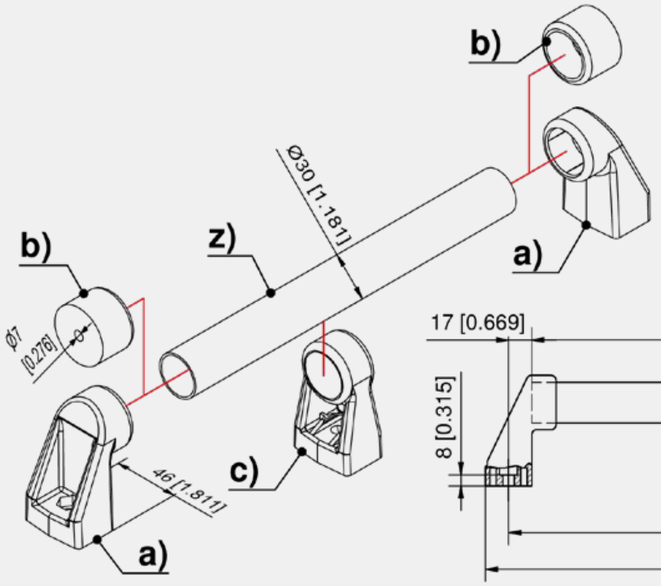
c)
- **Center support:** PA, black

z)
- **Tube:** steel, PVC coated, black

Remarks

For the total size, please add 68mm to the tube length.

For wall fastening please take the end piece b).



	Part number	L mm [inch]	L1 mm [inch]	L2 mm [inch]
z)	213-0401.00-00000	300 [11.811]	334 [13.150]	266 [10.472]
z)	213-0402.00-00000	400 [15.748]	434 [17.087]	366 [14.409]
z)	213-0403.00-00000	500 [19.685]	534 [20.354]	466 [18.346]
z)	213-0404.00-00000	600 [23.622]	634 [24.961]	566 [22.283]
z)	213-0405.00-00000	700 [27.560]	734 [28.898]	666 [26.220]
z)	213-0406.00-00000	800 31.496]	834 [32.835]	766 [30.157]

Fastening for handle

	Part Number	Handle element
a)	213-0101.03-00000	End piece
b)	213-0107.03-00000	Wall end piece
c)	213-0102.03-00000	Center support

Accessories

- z) 213-0401.00-00000 **Steel tube, 266mm**
- z) 213-0402.00-00000 **Steel tube, 366mm**
- z) 213-0403.00-00000 **Steel tube, 466mm**
- z) 213-0404.00-00000 **Steel tube, 566mm**
- z) 213-0405.00-00000 **Steel tube, 666mm**
- z) 213-0406.00-00000 **Steel tube, 766mm**
- z) 213-0407.00-00000 **Steel tube, 2500mm**
- z) 213-0408.00-Lxxmm **Steel tube, variable length**

DST Handle

[6-1600DST]

DST

RoHS WEEE



Advantages

- Handle with Ø30mm tube-bar with DIRAK-SNAP-Technology in various lengths SNAP-LINE.
- Designed for vertical or horizontal uses.
- Insensitive to dirt and easy to clean.
- Inside radii min. 5mm.
- The great diameter of the tube guarantees a sure and firm grab.
- Well-fitting and firm seat of the tube in the center support and the end pieces.
- The center support is optional, but should be applied for tube length over 466mm length.
- The installation is effected by a simple push into appropriate cutout.

Materials

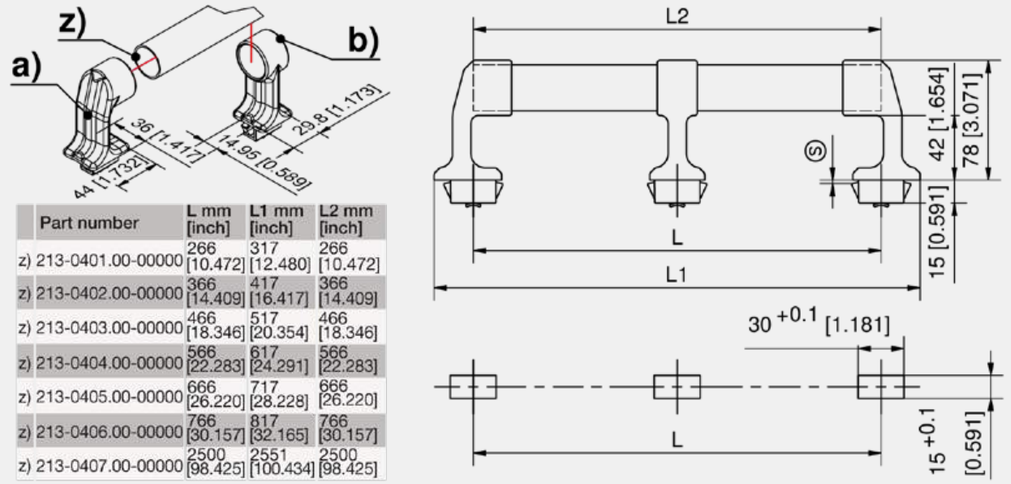
a)
- **End piece:** PA, black

b)
- **Center support:** PA, black

z)
- **Tube:** steel, PVC coated, black
- **Snap wedges:** sintered steel

Remarks

For the total size, please add 51mm to the tube length.



	Part number	L mm [inch]	L1 mm [inch]	L2 mm [inch]
z)	213-0401.00-00000	266 [10.472]	317 [12.480]	266 [10.472]
z)	213-0402.00-00000	366 [14.409]	417 [16.417]	366 [14.409]
z)	213-0403.00-00000	466 [18.346]	517 [20.354]	466 [18.346]
z)	213-0404.00-00000	566 [22.283]	617 [24.291]	566 [22.283]
z)	213-0405.00-00000	666 [26.220]	717 [28.228]	666 [26.220]
z)	213-0406.00-00000	766 [30.157]	817 [32.165]	766 [30.157]
z)	213-0407.00-00000	2500 [98.425]	2551 [100.434]	2500 [98.425]

Fastening for handle

	Part Number	Name	Clamping range	Installation type
a)	413-9101.00-00015	End piece	1.2 - 1.7 mm	tool-less
a)	413-9101.00-00020	End piece	1.7 - 2.2 mm	tool-less
a)	413-9101.00-00025	End piece	2.2 - 2.7 mm	tool-less
a)	413-9101.00-00030	End piece	2.7 - 3.2 mm	tool-less
b)	413-9102.00-00015	Center support	1.2 - 1.7 mm	tool-less
b)	413-9102.00-00020	Center support	1.7 - 2.2 mm	tool-less
b)	413-9102.00-00025	Center support	2.2 - 2.7 mm	tool-less
b)	413-9102.00-00030	Center support	2.7 - 3.2 mm	tool-less

Accessories

- 755 292-0701.15-01530 **Reinforcement plate for cutout**
- 756 292-0301.15-00000 **Tool for uninstallation**
- 756 292-0306.80-02530 **Tool for uninstallation**
- z) 213-0401.00-00000 **Steel tube, 266mm**
- z) 213-0402.00-00000 **Steel tube, 366mm**
- z) 213-0403.00-00000 **Steel tube, 466mm**
- z) 213-0404.00-00000 **Steel tube, 566mm**
- z) 213-0405.00-00000 **Steel tube, 666mm**
- z) 213-0406.00-00000 **Steel tube, 766mm**

Handle, bent

[6-1600.02]

RoHS WEEE



Advantages

- Handle, bent with Ø30mm in various length.
- Designed for vertical or horizontal uses.
- The great diameter of the tube guarantees a sure and firm grab.
- Well-fitting and firm seat of the end pieces.
- For the total size, please add 10mm to the tube length.
- This handle is suitable especially for large and heavy doors and controlling enclosures.
- Fastening by hex. socket head cap screws M8, or hex. screws or with countersunk screws M8.

Materials

a) and b)

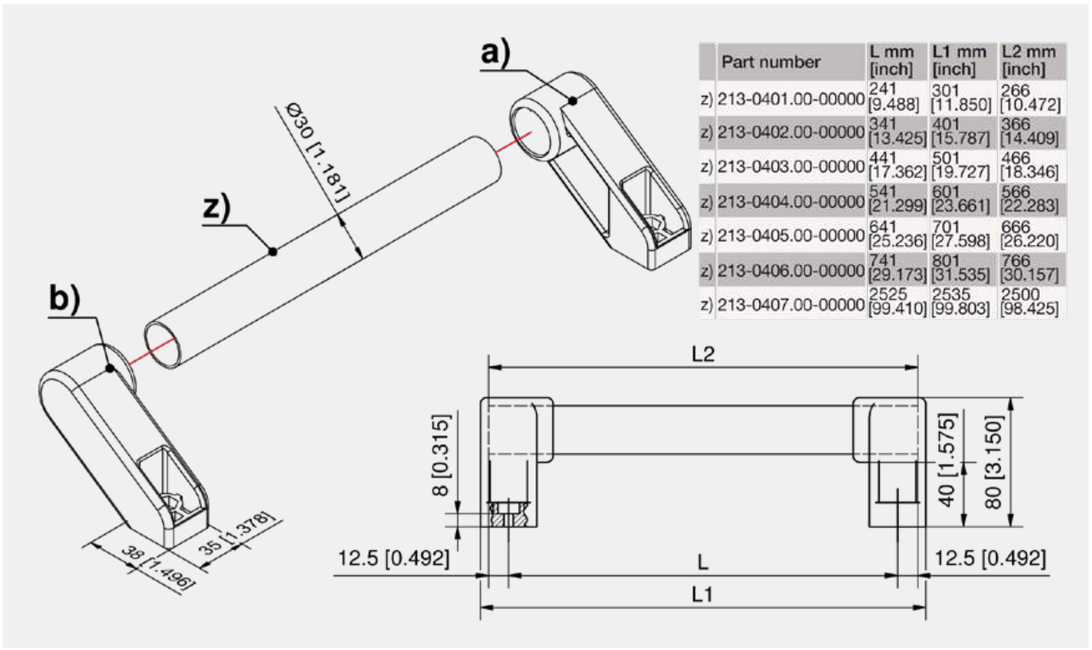
- **End piece:** PA, black

z)

- **Tube:** steel, PVC, black

Remarks

If needed center support and wall end piece from handle 6-1600.01 can be used.



	Part number	L mm [inch]	L1 mm [inch]	L2 mm [inch]
z)	213-0401.00-00000	241 [9.488]	301 [11.850]	266 [10.472]
z)	213-0402.00-00000	341 [13.425]	401 [15.787]	366 [14.409]
z)	213-0403.00-00000	441 [17.362]	501 [19.727]	466 [18.346]
z)	213-0404.00-00000	541 [21.299]	601 [23.661]	566 [22.283]
z)	213-0405.00-00000	641 [25.236]	701 [27.598]	666 [26.220]
z)	213-0406.00-00000	741 [29.173]	801 [31.535]	766 [30.157]
z)	213-0407.00-00000	2525 [99.410]	2535 [99.803]	2500 [98.425]

Fastening for handle

	Part Number	Handle element
a)	213-0103.03-00000	End piece, bent, RH
b)	213-0104.03-00000	End piece, bent, LH

+	Accessories
z)	213-0401.00-00000 **Steel tube, 266mm**
z)	213-0402.00-00000 **Steel tube, 366mm**
z)	213-0403.00-00000 **Steel tube, 466mm**
z)	213-0404.00-00000 **Steel tube, 566mm**
z)	213-0405.00-00000 **Steel tube, 666mm**
z)	213-0406.00-00000 **Steel tube, 766mm**
z)	213-0407.00-00000 **Steel tube, 2500mm**
z)	213-0408.00-Lxxmm **Steel tube, variable length**



Bridge Handle PA

See page 693

Fastening Technology





DST

Secure and grounded.

This fastener provides grounding and is easily installed without any tools.

Page 737



“Specifically, we were able to provide our customers a solution that works in extremely confined spaces where energy chains are used. Not to mention, the assembly times have been significantly reduced.”

Ansgar Klein, edk Gelenkrohr GmbH



DST

DIRAK-SNAP-Technology.

Simple. Secure.

Small with a big impact.

The DIRAK cage nut is small but innovative. The flexible housing allows for tool-less installation from both the front and rear of the cutout.

Page 742



Shake, rattle and roll!

Many DIRAK products provide safe connections even in the event of earthquakes or vibration. Please ask us about our testing documentation.



Blind assembly made easy.

Enables quick and comfortable fastening of components.

Page 749



DST

Captive.

DST fasteners can easily join panels together while remaining captive to one upon removal, therefore complying with the Machinery Directive 2006/42EC.

Page 732–734

Fastening Technology

Fastening Technology

Fastener

Page: **724-741**

Earthquake-proof 724, 726-728, 732-733, 737
Vibrationssicher 724, 726-728, 732-733, 737
Machinery directive 726-728, 732-734
Conductive 737

Cage nuts

Page: **742-745**

Earthquake-proof 742-745
Vibrationssicher 742-745
Front mounted 742, 744-745

Screws

Page: **746-750**

IP resistant 748
Blind assembly 749
Anti-twist 750
Under-head teeth 746

Overview



724 PA Fastener □9.5 and □12.7 [1-020]



725 DST Fastener □9.7 [1-041.01DST]



726 DST Captive Flex-Fastener □9.5 [1-034DST]



727 DST Captive Flex-Fastener □9.5 [1-034.01DST]



728 DST Captive Fastener □9.5 [1-035DST]



729 DST Fastener □9.5 [1-041.03DST]



730 DST Fastener □9.5 without leaf spring [1-041.04DST]



731 DST Fastener □9.5 with leaf spring [1-041.05DST]



732 DST Captive Fastener □9.5 [1-041.06DST]



733 DST Captive Fastener □12.7 [1-041.02DST]



734 DST Captive Fastener □18.7 [1-041.09DST]



735 DST Fastener 8x15 [1-040DST]



736 DST Fastener 30x10 [1-042DST]



737 DST Fastener 30x14 [1-043DST]



738 DST DUAL Fastener 30x10 [1-044DST]



739 DST Fastener 30x10 [1-046DST]



740 DST DUAL Fastener 30x10 [1-045DST]



742 Cage Nuts □9.5 [6-045]



743 Cage Nuts □9.5 [6-045.01]



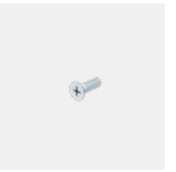
744 Cage Nuts [6-045.02]



745 Cage Nuts □12.7 [6-045.03]



746 Serrated Screws [6-040]



747 Countersunk Screws and Hexagon Nuts [6-041]



748 Screw Assembly for Terminal Box Cover [6-043]



749 Nut Plate [6-042]

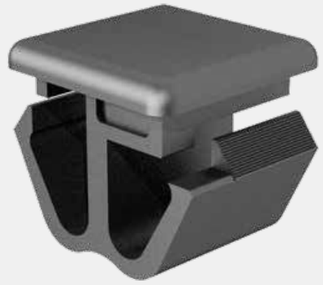


750 Tenon Blocks and Anti-Twist Protection [4-248]

Fastening Technology

PA Fastener □9.5 and □12.7

[1-020]



Polyamide, clip-in Fastener for □9.5 or □12.7 cutout or with 10mm gap, e.g. aluminium profiles

Advantages

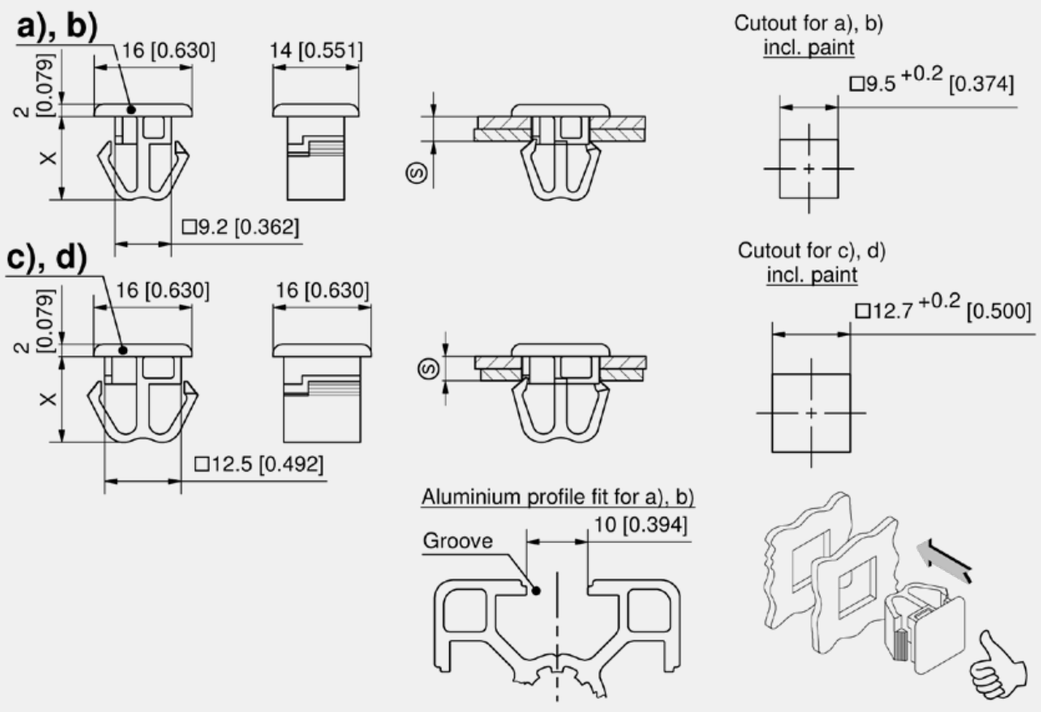
- Clips into the installation cut-out for simple tool-less installation.
- Audible click ensures proper secure installation.
- Vibration-proof according to DIN EN 61373.
- The square base 9.2 and 12.5 prevents the joiner from turning within the installation cutout.

Materials

- **Fastener:** PA, black

Remarks

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

	Part Number	Version	Clamping range	Dimension X	Installation type	Packaging unit
a)	214-0109.51-00000	9.5	3.0 - 3.5 mm	12.6 mm	tool-less	250 pcs.
b)	214-0109.51-10000	9.5	4.0 - 4.5 mm	13.6 mm	tool-less	250 pcs.
c)	214-0109.51-20000	12.7	3.0 - 3.5 mm	13 mm	tool-less	250 pcs.
d)	214-0109.51-30000	12.7	4.0 - 4.5 mm	14 mm	tool-less	250 pcs.

DST Fastener □9.7

[1-041.01DST]



for cutout □ 9.7, tool-less installation

Advantages

- Fastener with DIRAK-SNAP-Technology for joining flat metal sheets.
- The joining of metal sheets is achieved by pushing the Fastener into the cutouts.
- The dimension (S) always means the thickness of both sheets together.

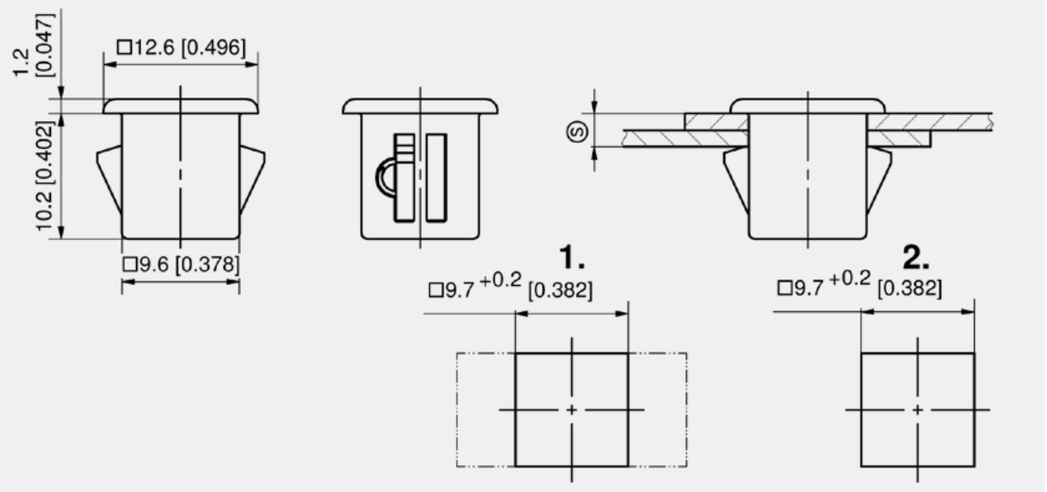
Materials

- **Housing:** zinc die, untreated
- **Snap wedges:** sintered steel, zinc plated

Remarks

1. = Cutout rear panel, also possible as ablong hole for tolerance adjustment.

2. = Cutout front panel



Fastener

Part Number	Clamping range	Vibration-proof	Installation type
294-9104.00-02224	2.2 - 2.4 mm	Yes	tool-less
294-9104.00-02527	2.5 - 2.7 mm	Yes	tool-less
294-9104.00-02830	2.8 - 3.0 mm	Yes	tool-less
294-9104.00-03133	3.1 - 3.3 mm	Yes	tool-less

DST Captive Flex-Fastener □9.5 [1-034DST]

DST

DIN 61373

RoHS WEEE



Advantages

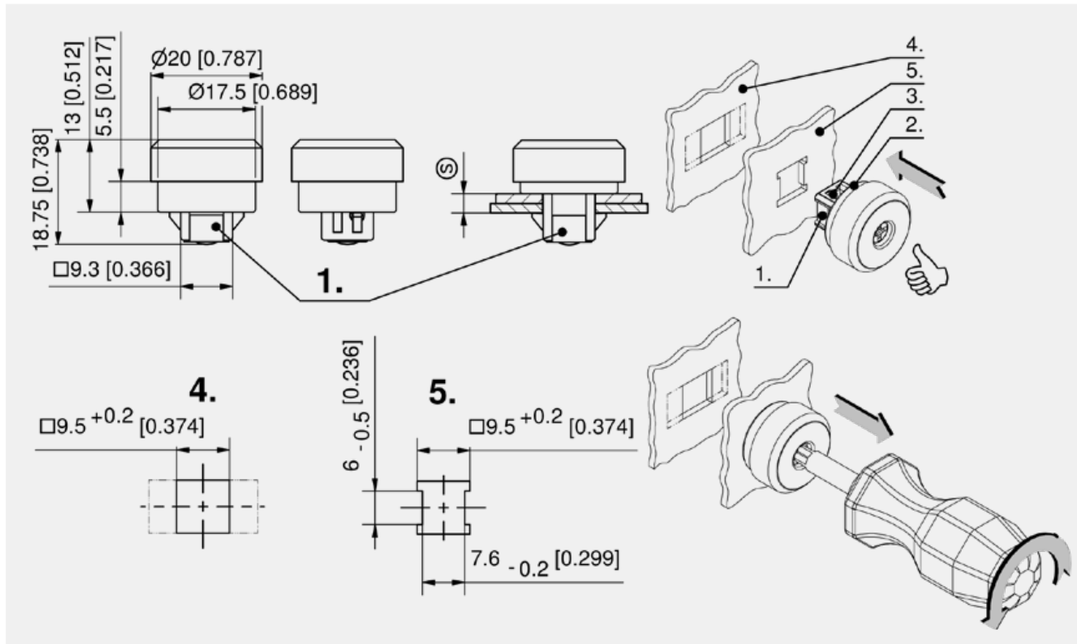
- Captive Flex-Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof according to DIN EN 61373.
- Operation by Phillips H2
- Opening by a ¼ turn of the insert.
- Self-adjusting clamping range of 0.5 - 5.5 mm.
- One-piece.

Materials

- **Housing and washer:** zinc die, chrome plated
- **Insert:** aluminium, hardened
- **Springs:** spring steel
- **SNAP wedges:** sintered steel

Remarks

Removal: By turning the screw-driver counterclockwise, the SNAP wedges (3.) are retracted. The compression spring (2.) pushes the Fastener out of the rear panel, but it remains captive in the front panel, held by the U-shaped spring (1.).
(4.) Cutout rear panel, also possible as oblong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Insert	Clamping range	Vibration-proof	captive	Installation type
294-9302.00-00055	Phillips H2	0.5 - 5.5 mm	Yes	Yes	tool-less

DST Captive Flex-Fastener □9.5 [1-034.01DST]

DST

DIN 61373

RoHS WEEE



Advantages

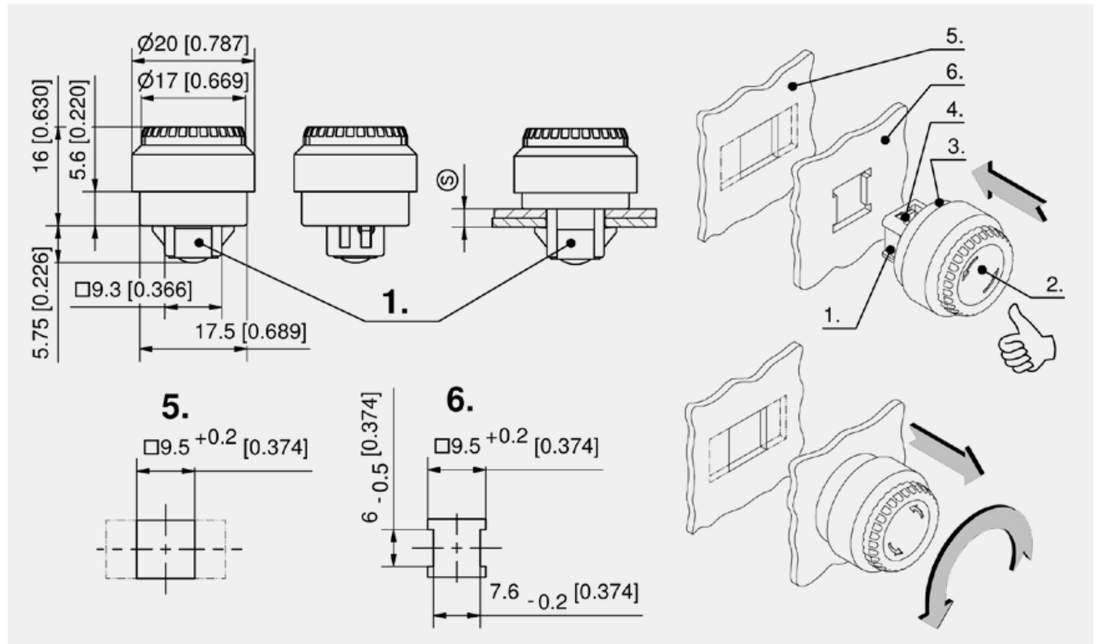
- Captive Flex-Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof according to DIN EN 61373.
- Operation by handwheel.
- Opening by a ¼ turn of the insert.
- Self-adjusting clamping range of 0.5 - 5.5 mm.
- One-piece.

Materials

- **Housing and washer:** zinc die, chrome plated
- **Handwheel:** PA6, black
- **Springs:** spring steel
- **Snap wedges:** sintered steel, zinc plated

Remarks

Removal: By turning the Handwheel (2.) counterclock-wise, the SNAP wedges (4.) are retraced. The leaf spring inside (3.) pushes the Fastener out of the rear panel, however, the U-shaped (1.) spring holes the Fastener captive in the front panel (6.). (5.) Cutout rear panel, also possible as ablong hole for tolerance adjustment. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Insert	Clamping range	Vibration-proof	captive	Installation type
294-9303.00-00055	Handwheel	0.5 - 5.5 mm	Yes	Yes	tool-less

Fastening Technology

DST Captive Fastener □9.5

[1-035DST]

DST

DIN 61373

RoHS WEEE



Advantages

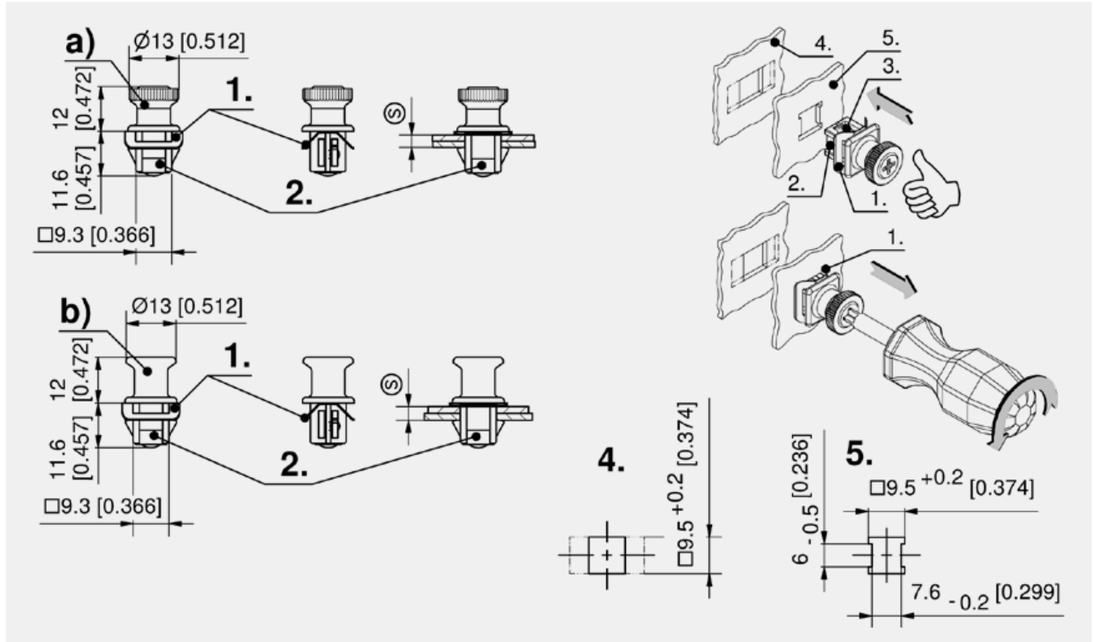
- Captive Flex-Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof according to DIN EN 61373.
- Operation by handwheel / Phillips H2 or Torx 15.
- Opening by a ¼ turn of the insert.
- One-piece.

Materials

- **Housing:** zinc die, chrome plated or black
- **Insert:** aluminium, anodized
- **Springs:** spring steel
- **Snap wedges:** sintered steel, zinc plated

Remarks

Removal: Turning the screw-driver counterclockwise draws back the SNAP wedges (3.). The leaf spring (1.) pushes the Fastener out of the rear panel, but it remains captive in the front panel, held by the U-shaped spring (2.). (4.) Cutout rear panel, also possible as ablong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener, zinc die

	Part Number	Insert	Clamping range	Surface	Vibration-proof	captive	Installation type
a)	294-9210.00-00017	Turning knob/Phillips H2	1.5 - 2.0 mm	chrome plated	Yes	Yes	tool-less
a)	294-9210.00-00026	Turning knob/Phillips H2	2.5 - 2.8 mm	chrome plated	Yes	Yes	tool-less
a)	294-9210.00-00034	Turning knob/Phillips H2	3.3 - 3.6 mm	chrome plated	Yes	Yes	tool-less
a)	294-9210.00-00042	Turning knob/Phillips H2	4.1 - 4.4 mm	chrome plated	Yes	Yes	tool-less
a)	294-9211.00-00017	Turning knob/Phillips H2	1.5 - 2.0 mm	black	Yes	Yes	tool-less
a)	294-9211.00-00026	Turning knob/Phillips H2	2.5 - 2.8 mm	black	Yes	Yes	tool-less
a)	294-9211.00-00034	Turning knob/Phillips H2	3.3 - 3.6 mm	black	Yes	Yes	tool-less
a)	294-9211.00-00042	Turning knob/Phillips H2	4.1 - 4.4 mm	black	Yes	Yes	tool-less
b)	294-9220.00-00138	Torx insert	3.7 - 4.0 mm	black	Yes	Yes	tool-less

DST Fastener □9.5

[1-041.03DST]

DST

RoHS WEEE



Advantages

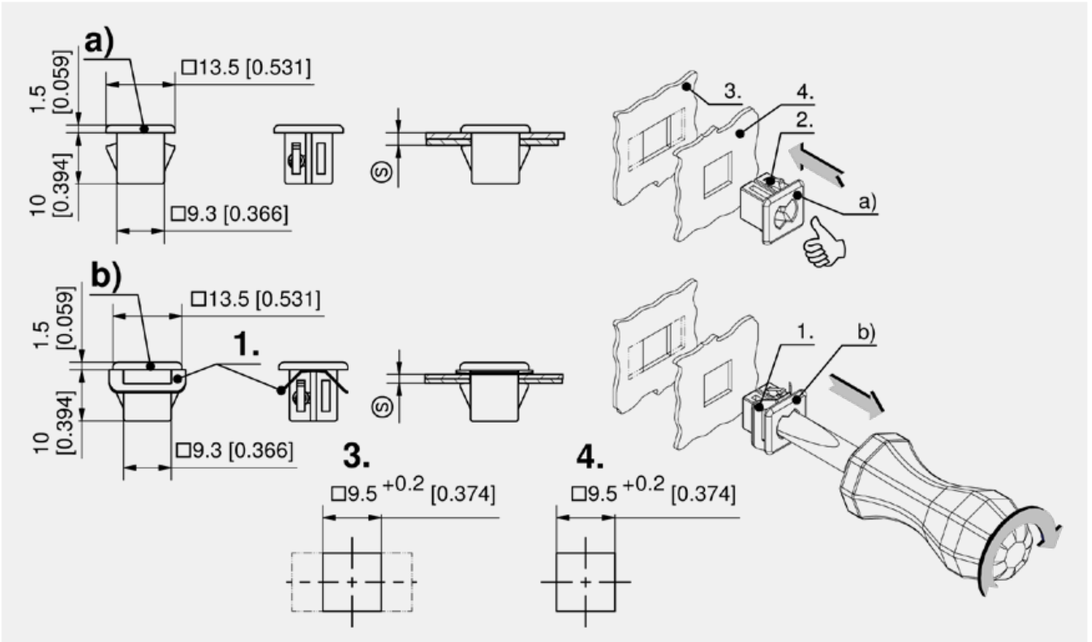
- Fastener with DIRAK-SNAP-Technology for joining sheet metal panels.
- Sheet metal panels are easily joined by manually pushing the Fastener through the panel cutout.
- This Fastener can be disengaged from the front of the panel using a flathead screwdriver.
- One-piece.

Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel
- **Leaf spring:** stainless steel

Remarks

Removal: By turning the screw-driver clockwise, the SNAP wedges (2.) are retracted. a): The fastener can be pressed manually from the back of the sheet. b): The leaf spring (1.) pushes the fastener out of the rear panel. (3.) Cutout rear panel, also posssible as ablong hole for tolerance adjustment. (4.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.

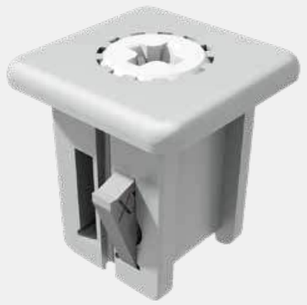


Fastener

	Part Number	Version	Insert	Clamping range	Vibration-proof	Installation type
a)	294-9117.00-00022	without leaf spring	Slotted insert	2.0 - 2.5 mm	Yes	tool-less
a)	294-9117.00-00031	without leaf spring	Slotted insert	3.0 - 3.3 mm	Yes	tool-less
a)	294-9117.00-00035	without leaf spring	Slotted insert	3.4 - 3.7 mm	Yes	tool-less
a)	294-9117.00-00043	without leaf spring	Slotted insert	4.2 - 4.5 mm	Yes	tool-less
b)	294-9116.00-00017	with leaf spring	Slotted insert	1.5 - 2.0 mm	Yes	tool-less
b)	294-9116.00-00026	with leaf spring	Slotted insert	2.5 - 2.8 mm	Yes	tool-less
b)	294-9116.00-00030	with leaf spring	Slotted insert	2.9 - 3.2 mm	Yes	tool-less
b)	294-9116.00-00038	with leaf spring	Slotted insert	3.7 - 4.0 mm	Yes	tool-less

DST Fastener □9.5 without leaf spring

[1-041.04DST]



Advantages

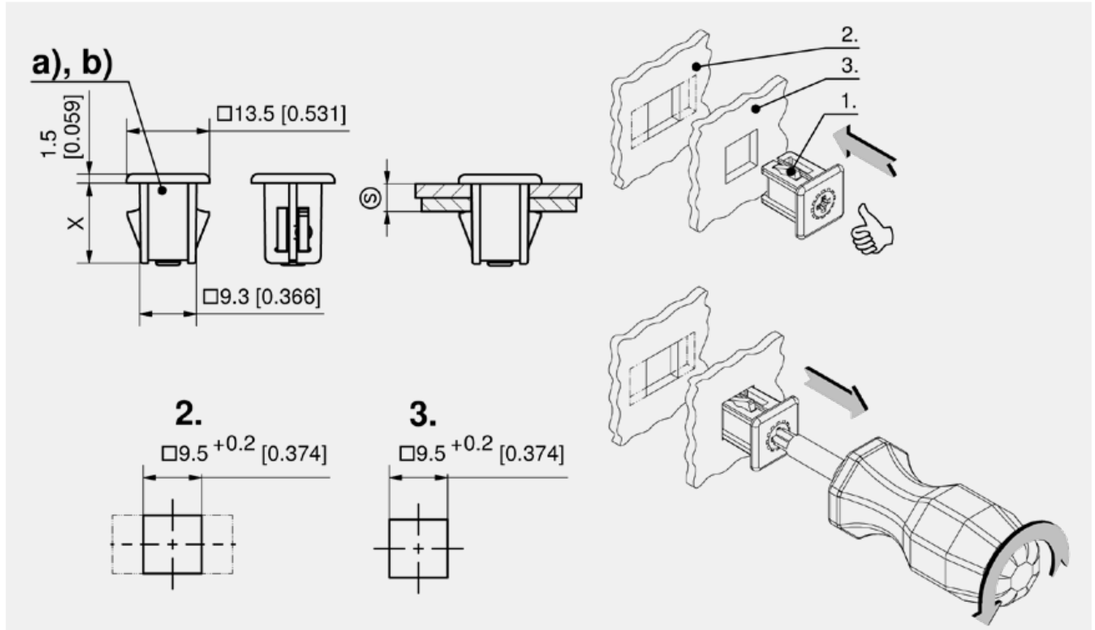
- Fastener with DIRAK-SNAP-Technology for joining sheet metal panels.
- For cutout □ 9.5.
- Tool-less installation.
- Sheet metal panels are easily joined by manually pushing the Fastener through the panel cutout.
- This Fastener can be disengaged from the front of the panel using a Phillips H2 screwdriver.
- The (S) Dimension indicates the total thickness of the sheet metal panels.
- One piece.
- **Delivery time on request!**

Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel
- **Insert:** Aluminium, hardened

Remarks

Removal: By turning the screwdriver counterclockwise, the SNAP wedges (1.) are retracted. The leaf spring pushes the fastener out of rear panel, however, the U-shaped spring holds the fastener captive in the front panel. (3.) Cutout rear panel, also possible as oblong hole for tolerance adjustment. (2.) Cutout front panel.

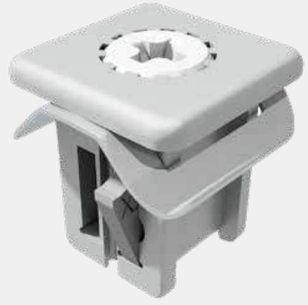


Fastener without Leaf Spring

	Part Number	Insert	Clamping range	Dimension X	Installation type
a)	294-9114.00-00022	Phillips H2	2.0 - 2.5 mm	11 mm	tool-less
a)	294-9114.00-00031	Phillips H2	3.0 - 3.3 mm	11 mm	tool-less
a)	294-9114.00-00035	Phillips H2	3.4 - 3.7 mm	11 mm	tool-less
a)	294-9114.00-00039	Phillips H2	3.8 - 4.1 mm	11 mm	tool-less
a)	294-9114.00-00047	Phillips H2	4.6 - 4.9 mm	11 mm	tool-less
b)	294-9120.00-00042	Phillips H2	4.0 - 4.5 mm	13 mm	tool-less
b)	294-9120.00-00051	Phillips H2	5.0 - 5.3 mm	13 mm	tool-less
b)	294-9120.00-00055	Phillips H2	5.4 - 5.7 mm	13 mm	tool-less
b)	294-9120.00-00059	Phillips H2	5.8 - 6.1 mm	13 mm	tool-less
b)	294-9120.00-00067	Phillips H2	6.6 - 6.9 mm	13 mm	tool-less

DST Fastener □9.5 with leaf spring

[1-041.05DST]



Advantages

- Fastener with DIRAK-SNAP-Technology for joining sheet metal panels.
- For cutout □ 9.5.
- Tool-less installation.
- Sheet metal panels are easily joined by manually pushing the Fastener through the panel cutout.
- This Fastener can be disengaged from the front of the panel using a Phillips H2 screwdriver.
- The (S) Dimension indicates the total thickness of the sheet metal panels.
- One piece.
- **Delivery time on request!**

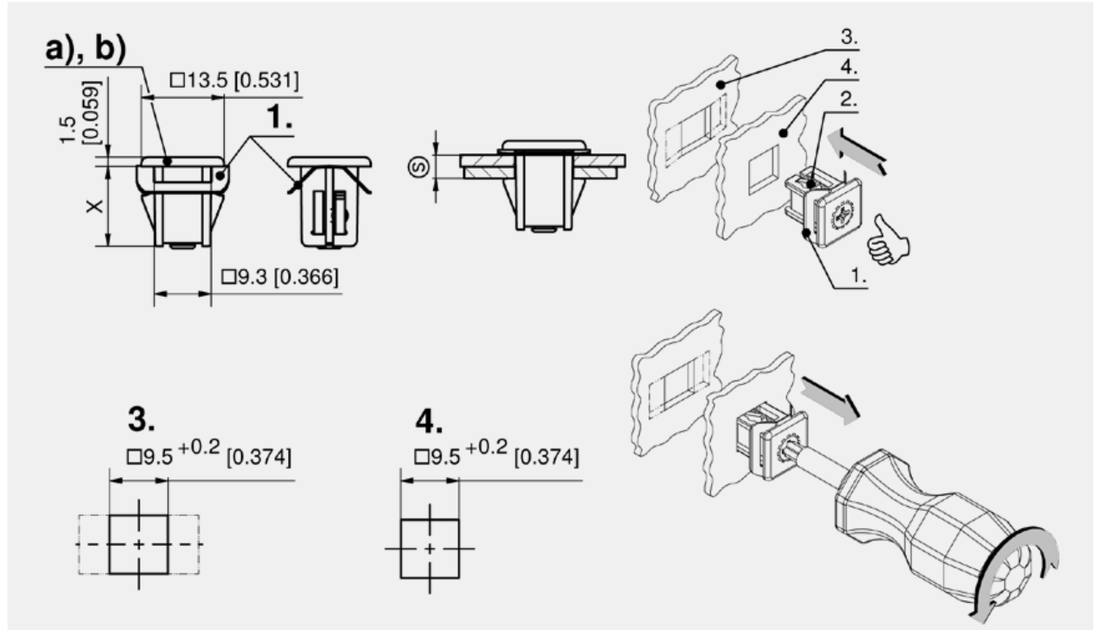
Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel
- **Leaf spring:** stainless steel
- **Insert:** Aluminium, hardened

Remarks

1. = Leaf spring
2. = SNAP wedges
3. = Cutout rear panel
4. = Cutout front panel

Removal: By turning the screwdriver counterclockwise, the SNAP wedges are retracted. The leaf spring pushes the fastener out of rear panel.



Fastener with Leaf Spring

	Part Number	Insert	Clamping range	Dimension X	captive	Installation type
a)	294-9113.00-00017	Phillips H2	1.5 - 2.0 mm	11 mm	Yes	tool-less
a)	294-9113.00-00026	Phillips H2	2.5 - 2.8 mm	11 mm	Yes	tool-less
a)	294-9113.00-00030	Phillips H2	2.9 - 3.2 mm	11 mm	Yes	tool-less
a)	294-9113.00-00034	Phillips H2	3.3 - 3.6 mm	11 mm	Yes	tool-less
a)	294-9113.00-00042	Phillips H2	4.1 - 4.4 mm	11 mm	Yes	tool-less
b)	294-9119.00-00037	Phillips H2	3.5 - 4.0 mm	13 mm	Yes	tool-less
b)	294-9119.00-00046	Phillips H2	4.5 - 4.8 mm	13 mm	Yes	tool-less
b)	294-9119.00-00050	Phillips H2	4.9 - 5.2 mm	13 mm	Yes	tool-less
b)	294-9119.00-00054	Phillips H2	5.3 - 5.6 mm	13 mm	Yes	tool-less
b)	294-9119.00-00062	Phillips H2	6.1 - 6.4 mm	13 mm	Yes	tool-less

DST Captive Fastener □9.5

[1-041.06DST]

DST

DIN 61373

RoHS WEEE



Advantages

- Captive Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof according to DIN EN 61373.
- Operation by Phillips H2.
- Opening by a ¼ turn of the insert.
- Connects panels and securely latches doors and covers.
- One-piece.

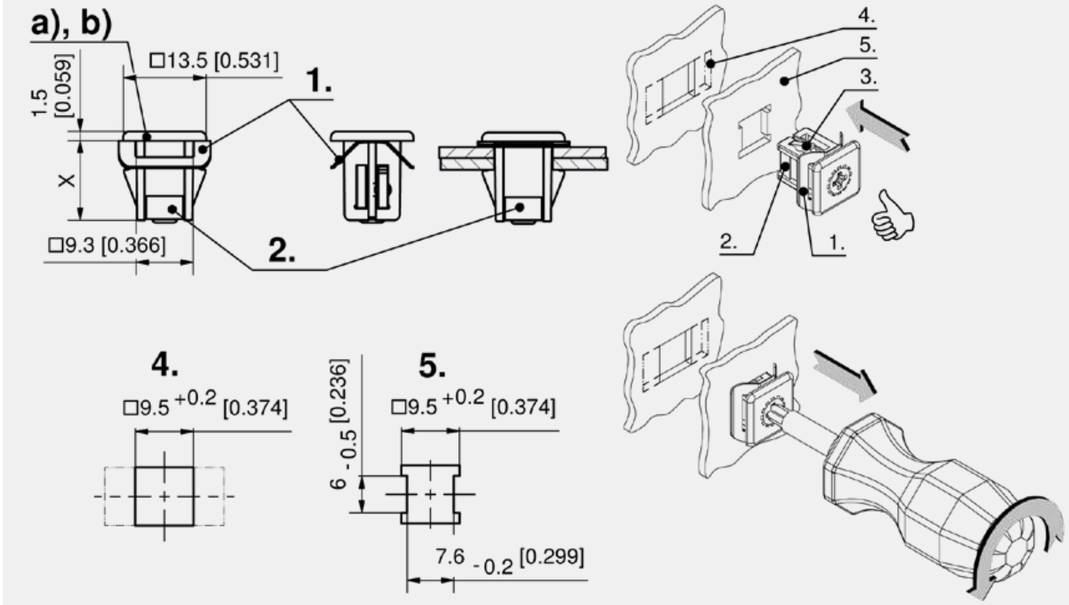
Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel
- **Insert:** aluminium, hardened
- **Springs:** spring steel

Remarks

Removal: By turning the screw-driver counterclockwiese, the SNAP wedges (3.) are retracted. The leaf spring (1.) pushes the Fastener out of the rear panel, however, the U-shaped spring (2.) holds the Fastener captive in the front panel. (4.) Cutout rear panel, also possible as ablong hole for tolerance adjustment. (5.) Cutout front panel.

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

	Part Number	Insert	Clamping range	Dimension X	Vibration-proof	captive	Installation type
a)	294-9112.00-00017	Phillips H2	1.5 - 2.0 mm	11 mm	Yes	Yes	tool-less
a)	294-9112.00-00026	Phillips H2	2.5 - 2.8 mm	11 mm	Yes	Yes	tool-less
a)	294-9112.00-00030	Phillips H2	2.9 - 3.2 mm	11 mm	Yes	Yes	tool-less
a)	294-9112.00-00034	Phillips H2	3.3 - 3.6 mm	11 mm	Yes	Yes	tool-less
a)	294-9112.00-00042	Phillips H2	4.1 - 4.4 mm	11 mm	Yes	Yes	tool-less
b)	294-9118.00-00037	Phillips H2	3.5 - 4.0 mm	13 mm	Yes	Yes	tool-less
b)	294-9118.00-00046	Phillips H2	4.5 - 4.8 mm	13 mm	Yes	Yes	tool-less
b)	294-9118.00-00050	Phillips H2	4.9 - 5.2 mm	13 mm	Yes	Yes	tool-less
b)	294-9118.00-00054	Phillips H2	5.3 - 5.6 mm	13 mm	Yes	Yes	tool-less
b)	294-9118.00-00062	Phillips H2	6.1 - 6.4 mm	13 mm	Yes	Yes	tool-less

DST Captive Fastener □12.7

[1-041.02DST]

DST

DIN 61373

RoHS WEEE



Advantages

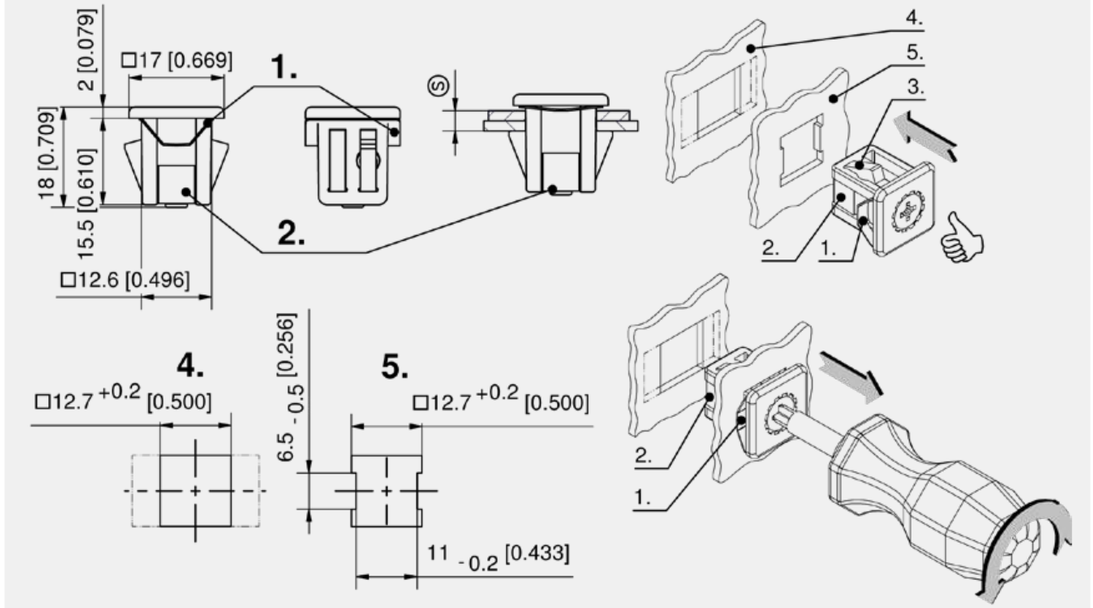
- Captive Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loo-sening, dropping or mispla-cing hardware.
- Held securely in the cutout.
- Vibration-proof according to DIN EN 61373.
- Operation by Phillips H2.
- Opening by a ¼ turn of the insert.
- One-piece.

Materials

- **Housing:** zinc die, untreated
- **Snap wedges:** sintered steel
- **Insert:** aluminum, hardened
- **Springs:** spring steel

Remarks

Removal: By turning the screw-driver counterclockwise, the SNAP wedges (3.) are retracted. The leaf spring (1.) pushes the Fastener out of the rear panel, however, the U-shaped spring holds the Fastener captive in the front panel. (4.) Cutout rear panel, can be made with olong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Insert	Clamping range	Vibration-proof	captive	Installation type
294-9103.00-00021	Phillips H2	1.4 - 1.9 mm	Yes	Yes	tool-less
294-9103.00-00031	Phillips H2	2.4 - 2.9 mm	Yes	Yes	tool-less
294-9103.00-00036	Phillips H2	2.9 - 3.4 mm	Yes	Yes	tool-less
294-9103.00-00041	Phillips H2	3.4 - 3.9 mm	Yes	Yes	tool-less
294-9103.00-00046	Phillips H2	3.9 - 4.4 mm	Yes	Yes	tool-less
294-9103.00-00056	Phillips H2	4.9 - 5.4 mm	Yes	Yes	tool-less
294-9103.00-00061	Phillips H2	5.4 - 5.9 mm	Yes	Yes	tool-less
294-9103.00-00066	Phillips H2	5.9 - 6.4 mm	Yes	Yes	tool-less

DST Captive Fastener □18.7

[1-041.09DST]



Advantages

- Captive Fastener with DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Tool-less installation.
- Pushed into the front panel (sheet thickness max. 3 mm) and permanently secured by the U-shaped spring (1.).
- Can be dismantled of the rear panel from the front with the tool for uninstallation 292-0312.83-00000.
- One-piece.
- The (S) dimension indicates the total thickness of the sheet metal panels.

Materials

- **Housing and Snap wedges:** zinc die, zinc plated
- **U-shaped spring:** stainless steel AISI 301

Remarks

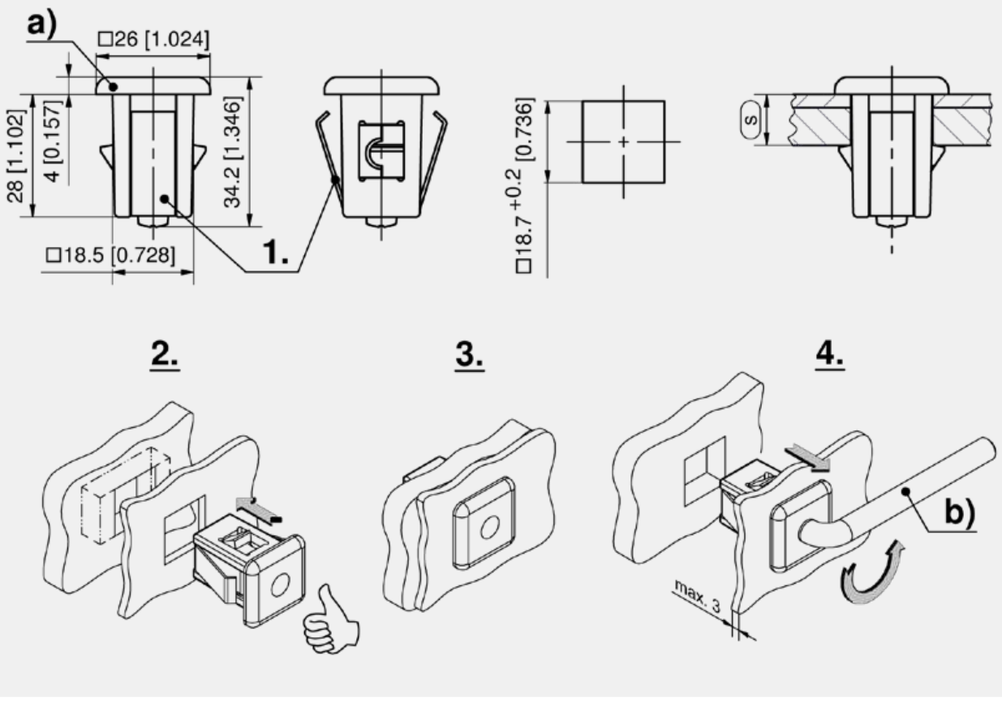
2. = Installation

3. = Installed

4. = Removal

Removal: By turning the tool for uninstallation counter clockwise the SNAP wedges are drawn back. The U-shaped spring holds the Fastener captive in the front panel.

Oblong hole possible in the rear panel, for tolerance adjustment.



Fastener

	Part Number	Clamping range	captive	Installation type
a)	294-8004.00-00001	11.5 - 11.8 mm	Yes	tool-less

Accessories

756 292-0312.83-00000 **Tool for uninstallation**

DST Fastener 8x15

[1-040DST]



for cutout 8x15, tool-less installation

Advantages

- Fastener with DIRAK-SNAP-Technology for joining flat metal sheets.
- The joining of two metal sheets is achieved by pushing the Fastener into the cutouts.
- With tool/key Part-No.: 292-0302.70 product system 6-080DST this Fastener can be disengaged both from inside and outside.
- After removal of the red plug disassembly also from the inside possible.
- The tool is captive in the open position.

Materials

- **Housing:** PA, black or light grey, RAL 7035
- **Snap wedges:** Grivory, black

Remarks

1. assembly

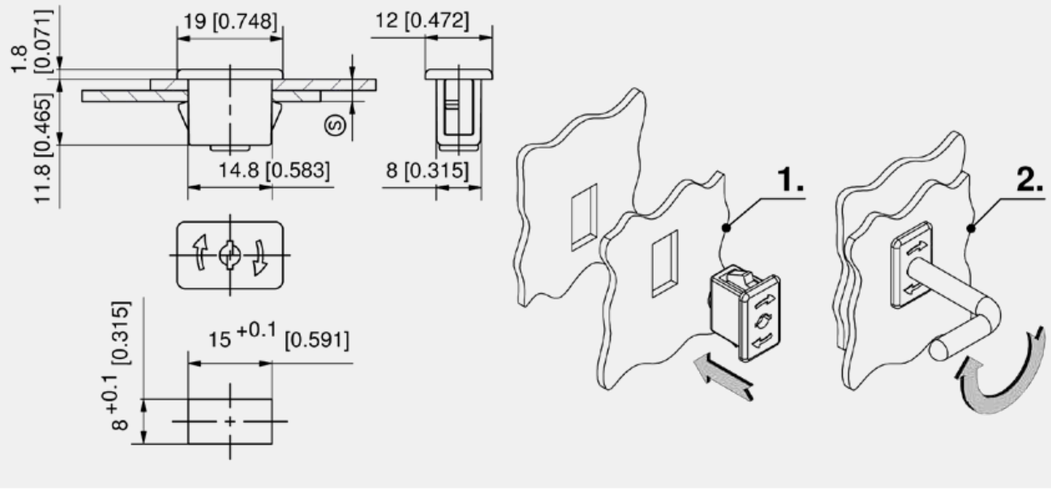
2. disassembly

The dimension (S) always means the thickness of both sheets e.g.:

1.5 + 1.5 = 3

2.0 + 1.0 = 3

2.0 + 2.0 = 4



Fastener, PA, black

Part Number	Clamping range	Vibration-proof	Installation type
294-9001.00-00015	1.5 - 1.8 mm	Yes	tool-less
294-9001.00-00020	2.0 - 2.3 mm	Yes	tool-less
294-9001.00-00030	3.0 - 3.3 mm	Yes	tool-less
294-9001.00-00040	4.0 - 4.3 mm	Yes	tool-less

Fastener, PA, Light Grey RAL 7035

Part Number	Clamping range	Vibration-proof	Installation type
294-9002.00-00015	1.5 - 1.8 mm	Yes	tool-less
294-9002.00-00020	2.0 - 2.3 mm	Yes	tool-less
294-9002.00-00030	3.0 - 3.3 mm	Yes	tool-less
294-9002.00-00040	4.0 - 4.3 mm	Yes	tool-less

Accessories

756 292-0302.70-00000 **Tool for uninstallation**

DST Fastener 30x10

[1-042DST]



Advantages

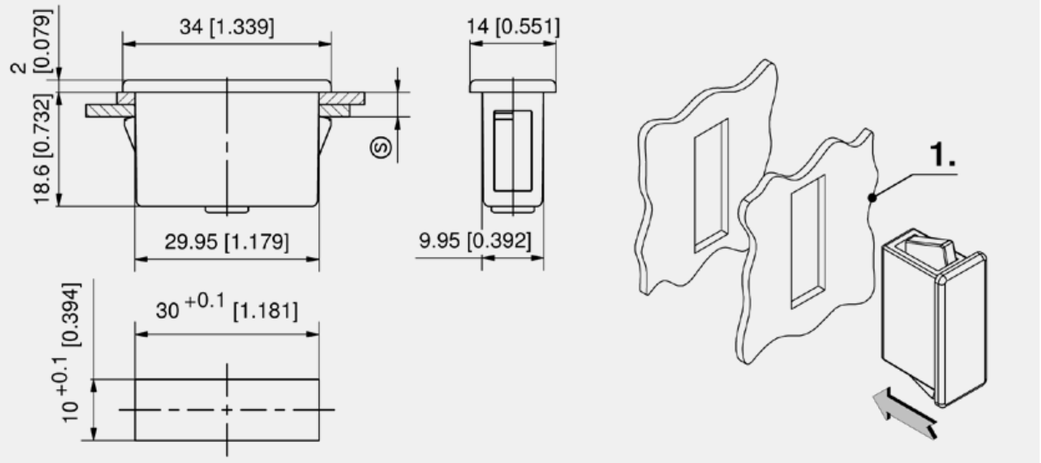
- Fastener with DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout 30x10.
- Tool-less installation.
- This Fastener is suitable for thicknesses of totally 8mm.
- The joining is achieved by pushing the Fastener into the cutouts.

Materials

- **Housing:** zinc die, black
- **Snap wedges:** sintered steel

Remarks

1. Installation



Fastener

Part Number	Clamping range	Vibration-proof	Installation type
294-9106.00-00040	3.7 - 4.2 mm	Yes	tool-less
294-9106.00-00045	4.2 - 4.7 mm	Yes	tool-less
294-9106.00-00050	4.7 - 5.2 mm	Yes	tool-less
294-9106.00-00055	5.2 - 5.7 mm	Yes	tool-less
294-9106.00-00060	5.7 - 6.2 mm	Yes	tool-less
294-9106.00-00080	7.7 - 8.2 mm	Yes	tool-less

Accessories
755 292-0702.15-01030 **Reinforcement plate for cutout**
754 292-0401.00-03010 **Cutout-cover**
756 292-0306.80-02530 **Tool for uninstallation**

DST Fastener 30x14

[1-043DST]



Advantages

- Fastener with DIRAK-SNAP-Technology for joining flat metal sheets.
- The connection of the sheets is established via a simple clip-in into its cutout.
- The riveted grounding clip assures an electrical connection between the sheets and the fastener itself.
- Vibration-proof according to DIN EN 61373.
- The teeth of the riveted grounding clip penetrate the painted cutting edge of the cutouts as well.
- By using the tool for uninstallation 292-0311.15 a disassembly from the front is possible.

Materials

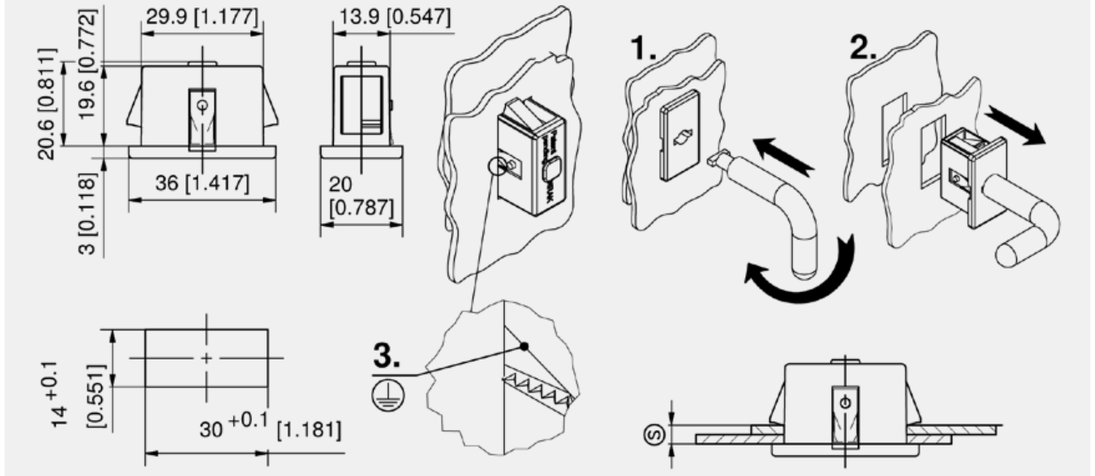
- **Housing:** zinc die, black
- **Snap wedges:** sintered steel
- **Grounding clip:** stainless steel

Remarks

The (S) dimension indicates the total thickness of the sheet metal panels.

1. and 2. = Uninstallation

3. Grounding clip



Fastener

Part Number	Clamping range	Grounding	Vibration-proof	Installation type
294-9003.00-00034	3.0 - 3.7 mm	Yes	Yes	tool-less
294-9003.00-00043	4.0 - 4.5 mm	Yes	Yes	tool-less
294-9003.00-00052	5.0 - 5.5 mm	Yes	Yes	tool-less
294-9003.00-00063	6.0 - 6.5 mm	Yes	Yes	tool-less

Accessories
754 292-0402.00-03014 **Cutout-cover**
756 292-0311.15-00000 **Tool for uninstallation**

DST DUAL Fastener 30x10

[1-044DST]



Advantages

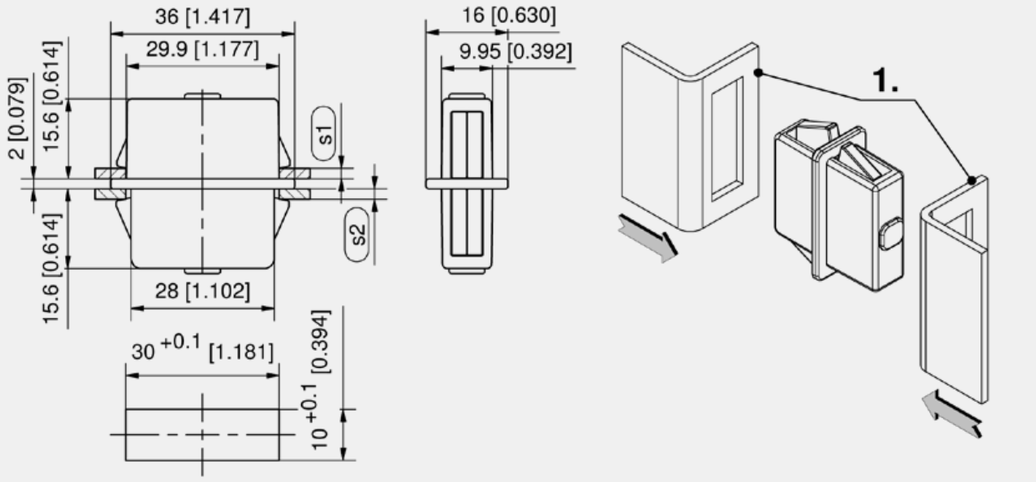
- DUAL Fastener with DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout 30x10.
- Tool-less installation.
- In order to enable a tolerance compensation, one half of the housing is just 28mm long.

Materials

- **Housing:** zinc die, black or PA black
- **Snap wedges:** sintered steel

Remarks

1. Installation



Fastener, PA, black

Part Number	Version	Clamping range	Clamping range (S) 2	Vibration-proof	Installation type
294-9102.52-10010	for fix connection	0.7 - 1.2 mm	0.7 - 1.2 mm	Yes	tool-less
294-9102.52-20020	for fix connection	1.7 - 2.2 mm	1.7 - 2.2 mm	Yes	tool-less
294-9102.52-15015	for fix connection	1.2 - 1.7 mm	1.2 - 1.7 mm	Yes	tool-less
294-9102.52-25025	for fix connection	2.2 - 2.7 mm	2.2 - 2.7 mm	Yes	tool-less
294-9102.52-30030	for fix connection	2.7 - 3.2 mm	2.7 - 3.2 mm	Yes	tool-less

Fastener, zinc die, black

Part Number	Version	Clamping range	Clamping range (S) 2	Vibration-proof	Installation type
294-9107.33-10010	for fix connection	0.7 - 1.2 mm	0.7 - 1.2 mm	Yes	tool-less
294-9107.33-15015	for fix connection	1.2 - 1.7 mm	1.2 - 1.7 mm	Yes	tool-less
294-9107.33-20020	for fix connection	1.7 - 2.2 mm	1.7 - 2.2 mm	Yes	tool-less
294-9107.33-25025	for fix connection	2.2 - 2.7 mm	2.2 - 2.7 mm	Yes	tool-less
294-9107.33-30030	for fix connection	2.7 - 3.2 mm	2.7 - 3.2 mm	Yes	tool-less

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

DST Fastener 30x10

[1-046DST]



Advantages

- The Fastener with DIRAK-SNAP-Technology has one fixed side and one detachable side.
- Fastening with countersunk screws M4 or wood screws.
- Clamping range 0.8-3mm.
- The width (b) of the cutout can be enlarged for adjusting.
- Pull-off forces: ~15 - 50N.
- Blind assembly in closed profiles.
- Vibration-proof.

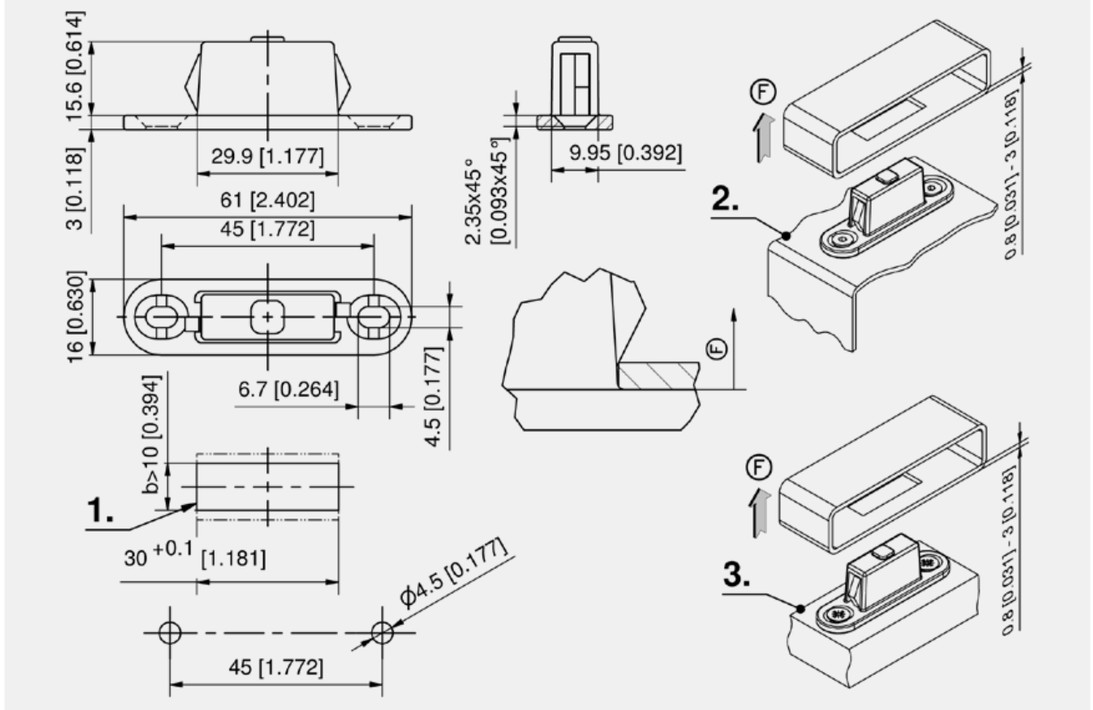
Materials

- **Fastener:** zinc die, black
- **Snap wedges:** sintered steel

Remarks

F = pull-off force

1. cutout for detachable side / tolerance balance
2. e.g. sheet metal
3. e.g. wood



Fastener

Part Number	Version	Pull-off force	Clamping range	Vibration-proof	Countersunk screw	Installation type
295-9002.00-00001	one detachable side	~15N	0.8 - 3.0 mm	Yes	M4	screw-on
295-9002.00-00003	one detachable side	~30N	0.8 - 3.0 mm	Yes	M4	screw-on
295-9002.00-00005	one detachable side	~50N	0.8 - 3.0 mm	Yes	M4	screw-on

	Accessories
738	1-044DST **DST DUAL Fastener 30x10**
740	1-045DST **DST DUAL Fastener 30x10**

DST DUAL Fastener 30x10

[1-045DST]



Advantages

- The Dual Fastener with DIRAK-SNAP-Technology has one fixed side and one detachable side.
- Tool-less installation.
- Application: Joining 2 sheet metal panels.
- The DUAL Fastener keep the door in position and prevent a rattling of the door.
- The cutout for the fixed side is 30x10mm.
- For the detachable side a cut-out of 28x10mm till 30x16mm is possible depending on the possible misalignment.

Materials

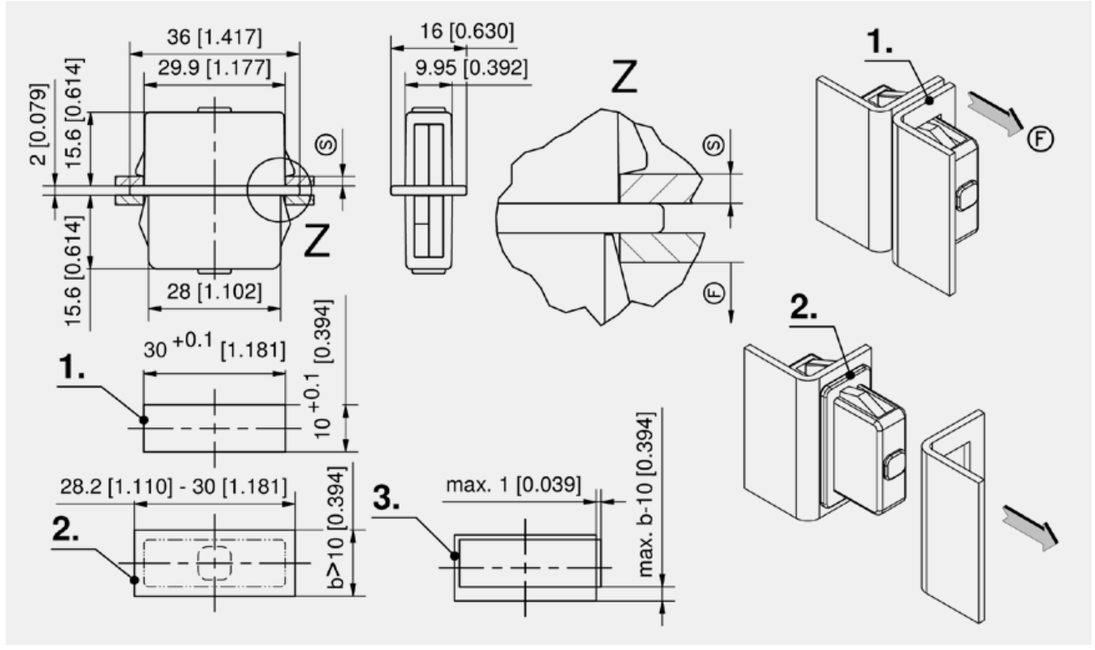
- **Dual Fastener:** PA, black or zinc die, black
- **Snap wedges:** sintered steel

Remarks

1. assembled
2. removed
3. cutout for fixed side
4. cutout for detachable side / tolerance balance
5. possible misalignment of the 2 cutouts

The sheet thicknesses (S) can be designed differently.

F = pull-off force



Fastener, zinc die, black

Part Number	Version	Pull-off force	Clamping range	Vibration-proof	Installation type
295-9001.33-10001	one detachable side	~15N	0.7 - 1.2 mm	Yes	tool-less
295-9001.33-10003	one detachable side	~30N	0.7 - 1.2 mm	Yes	tool-less
295-9001.33-10005	one detachable side	~50N	0.7 - 1.2 mm	Yes	tool-less
295-9001.33-15001	one detachable side	~15N	1.2 - 1.7 mm	Yes	tool-less
295-9001.33-15003	one detachable side	~30N	1.2 - 1.7 mm	Yes	tool-less
295-9001.33-15005	one detachable side	~50N	1.2 - 1.7 mm	Yes	tool-less
295-9001.33-20001	one detachable side	~15N	1.7 - 2.2 mm	Yes	tool-less
295-9001.33-20003	one detachable side	~30N	1.7 - 2.2 mm	Yes	tool-less
295-9001.33-20005	one detachable side	~50N	1.7 - 2.2 mm	Yes	tool-less
295-9001.33-25001	one detachable side	~15N	2.2 - 2.7 mm	Yes	tool-less
295-9001.33-25003	one detachable side	~30N	2.2 - 2.7 mm	Yes	tool-less
295-9001.33-25005	one detachable side	~50N	2.2 - 2.7 mm	Yes	tool-less
295-9001.33-30001	one detachable side	~15N	2.7 - 3.2 mm	Yes	tool-less
295-9001.33-30003	one detachable side	~30N	2.7 - 3.2 mm	Yes	tool-less
295-9001.33-30005	one detachable side	~50N	2.7 - 3.2 mm	Yes	tool-less

Fastener, PA, black

Part Number	Version	Pull-off force	Clamping range	Vibration-proof	Installation type
295-9001.52-10001	one detachable side	~15N	0.7 - 1.2 mm	Yes	tool-less
295-9001.52-10003	one detachable side	~30N	0.7 - 1.2 mm	Yes	tool-less
295-9001.52-10005	one detachable side	~50N	0.7 - 1.2 mm	Yes	tool-less
295-9001.52-15001	one detachable side	~15N	1.2 - 1.7 mm	Yes	tool-less
295-9001.52-15003	one detachable side	~30N	1.2 - 1.7 mm	Yes	tool-less
295-9001.52-15005	one detachable side	~50N	1.2 - 1.7 mm	Yes	tool-less
295-9001.52-20001	one detachable side	~15N	1.7 - 2.2 mm	Yes	tool-less
295-9001.52-20003	one detachable side	~30N	1.7 - 2.2 mm	Yes	tool-less
295-9001.52-20005	one detachable side	~50N	1.7 - 2.2 mm	Yes	tool-less
295-9001.52-25001	one detachable side	~15N	2.2 - 2.7 mm	Yes	tool-less
295-9001.52-25003	one detachable side	~30N	2.2 - 2.7 mm	Yes	tool-less
295-9001.52-25005	one detachable side	~50N	2.2 - 2.7 mm	Yes	tool-less
295-9001.52-30001	one detachable side	~15N	2.7 - 3.2 mm	Yes	tool-less
295-9001.52-30003	one detachable side	~30N	2.7 - 3.2 mm	Yes	tool-less
295-9001.52-30005	one detachable side	~50N	2.7 - 3.2 mm	Yes	tool-less

	Accessories
755	292-0702.15-01030 **Reinforcement plate for cutout**
754	292-0401.00-03010 **Cutout-cover**
756	292-0306.80-02530 **Tool for uninstallation**

Cage Nuts □9.5

[6-045]



Advantages

- For the secure joining of metal sheets.
- The nut is installed in the housing (cage).
- Impossible to over-twist nut and cage.
- Can be installed in the cutout without tools from the front as well as from behind.
- Cage made of PA is flexible and thus easy to install.
- Secure fit of the cage in the cutout through protruding square.
- Clamping range 1-4mm.
- For cutouts □9.5 and □9.2mm.
- Suitable for high tightening torque and high tensile forces of up to 8 nm*.
- a) + b) Configure the cage a) with the nut b).
- c) Cages and nuts are packed pre-assembled per 100 in a bag.

Materials

- **Cage:** PA, black
- **Nut:** steel, zinc plated

Remarks

1. = Cutout 9.5mm installation from the front as well as from behind.

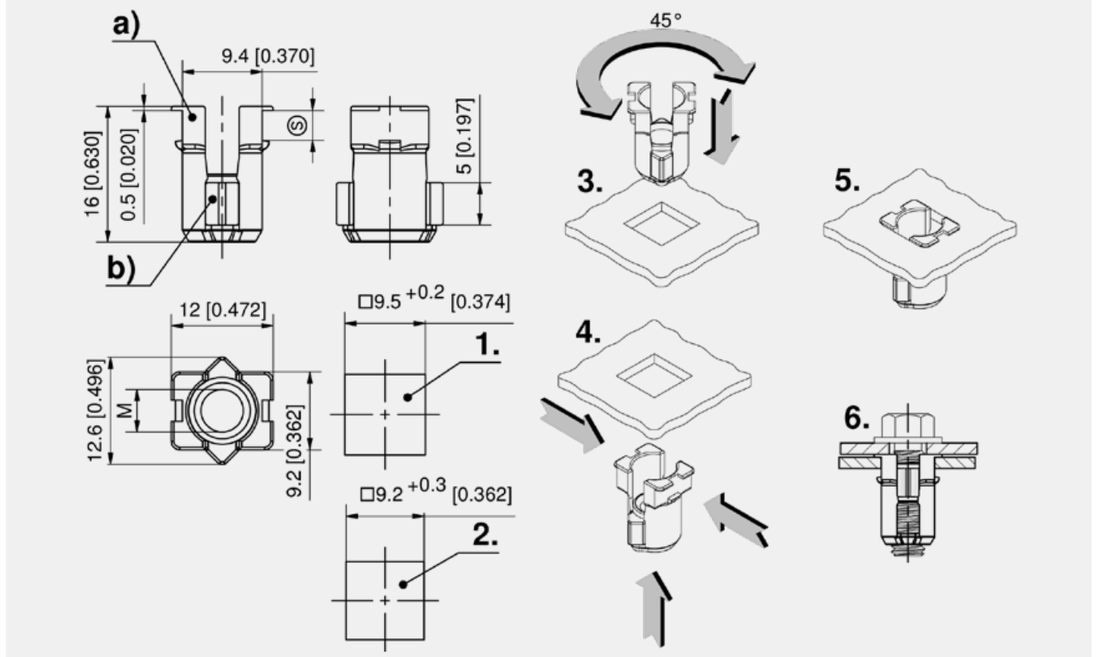
2. = Cutout 9.2mm installation only from behind.

3. = Blind installation from the front: diagonal installation of the cage nut into the cutout, compressing of the cage ends, rotation of 45° and flush insertion into the cutout.

4. = Installation from behind: guide the head of the cage through the installation opening and attach it.

5. = Installed.

6. = Screwed.



Cage nuts, unmounted

	Part Number	Name	Clamping range	Material	Surface	Packaging unit
a)	203-1901.06-00095	Cage for Nut	1 - 4 mm	PA	black	2000 pcs.
b)	203-1902.15-00006	Nut M6		steel	zinc plated, white	2000 pcs.
b)	203-1902.15-00014	Nut 1/4"UNC		steel	zinc plated, yellow (Chrome VI free)	2000 pcs.

Cage nuts, pre-assembled

	Part Number	Thread size	Clamping range	Material	Surface	Packaging unit
c)	203-9002.00-00000	M6	1 - 4 mm	steel	zinc plated, white	100 pcs.
c)	203-9003.00-00000	1/4" UNC	1 - 4 mm	steel	zinc plated, yellow (Chrome VI free)	100 pcs.

Cage Nuts □9.5

[6-045.01]



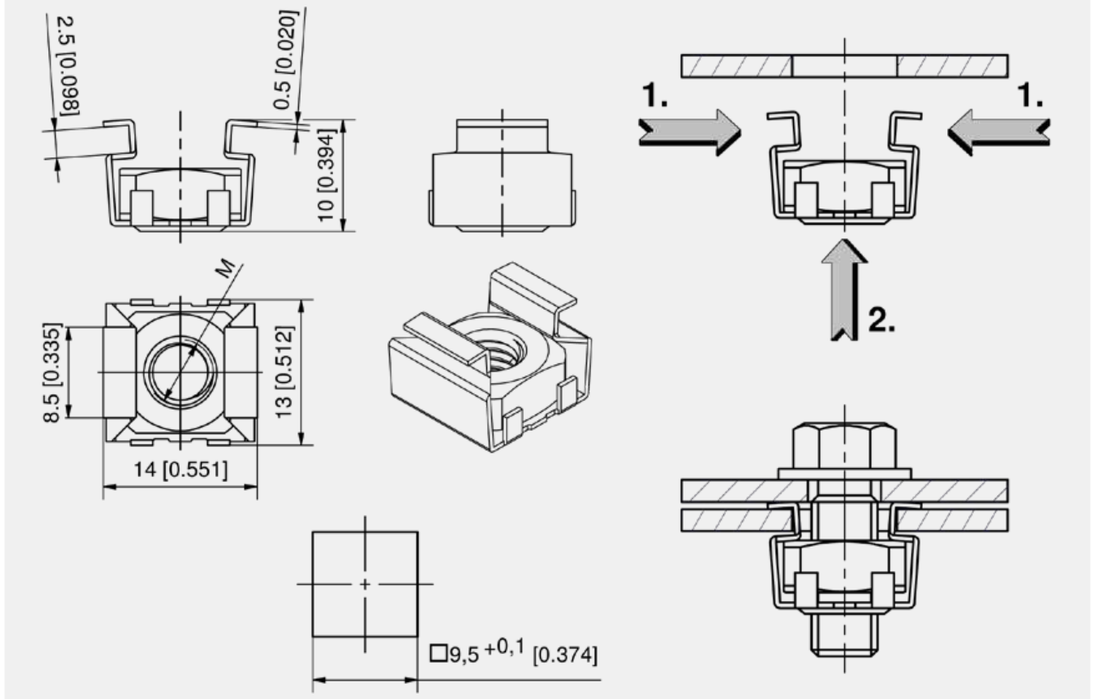
Ensures fixed connection of two metal sheets

Advantages

- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- Vibration-proof according to DIN EN 61373.

Materials

- **Cage:** steel, zinc plated or stainless steel AISI 304
- **Nut:** steel, zinc plated or stainless steel AISI 316



Cage Nuts

Part Number	Version	Material	Surface	Packaging unit
359-0250.06-00000	M5	steel	zinc plated	200 pcs.
353-2010.00-00000	M5	stainless steel		200 pcs.
359-0206.06-00000	M6	steel	zinc plated	200 pcs.

Cage Nuts

[6-045.02]

DIN 61373

RoHS WEEE



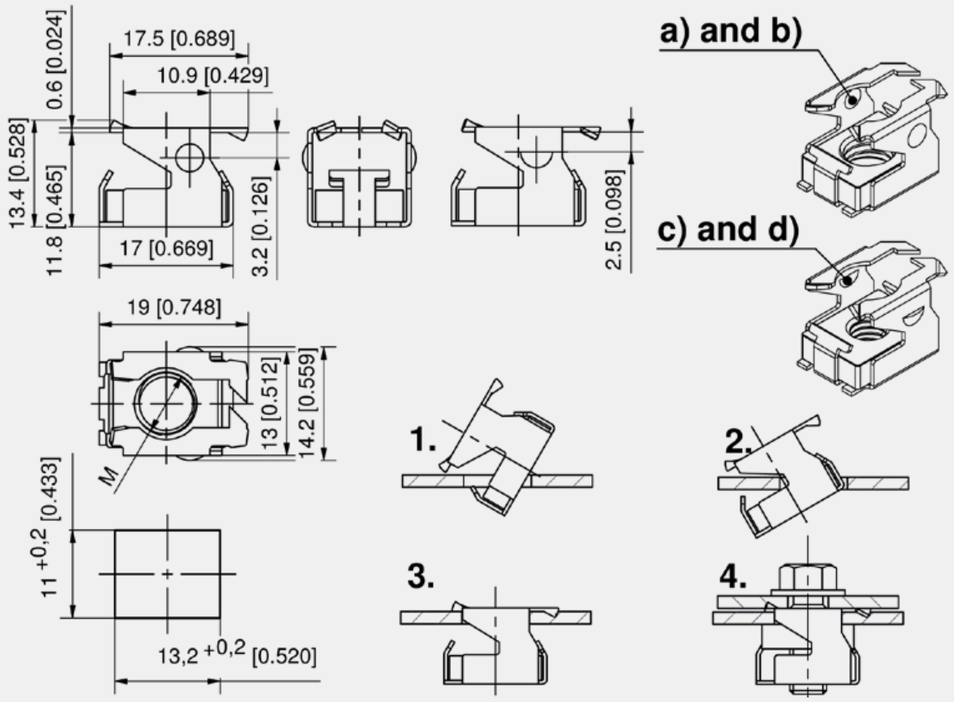
Ensures fixed connection of two metal sheets

Advantages

- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- c) and d) Special design of the cage prevents from falling out of the cutout.
- Vibration-proof according to DIN EN 61373.

Materials

- **Cage and Nut:** steel, zinc plated



Cage Nuts

	Part Number	Version	Material	Surface	Packaging unit
a)	350-2004.00-00000	M8	steel	zinc plated	200 pcs.
b)	350-2005.00-00000	M6	steel	zinc plated	200 pcs.
c)	350-2046.00-00000	M6	steel	zinc plated	200 pcs.
d)	350-2096.00-00000	1/4-20UNC	steel	zinc plated	200 pcs.

Cage Nuts □12.7

[6-045.03]

DIN 61373

RoHS WEEE



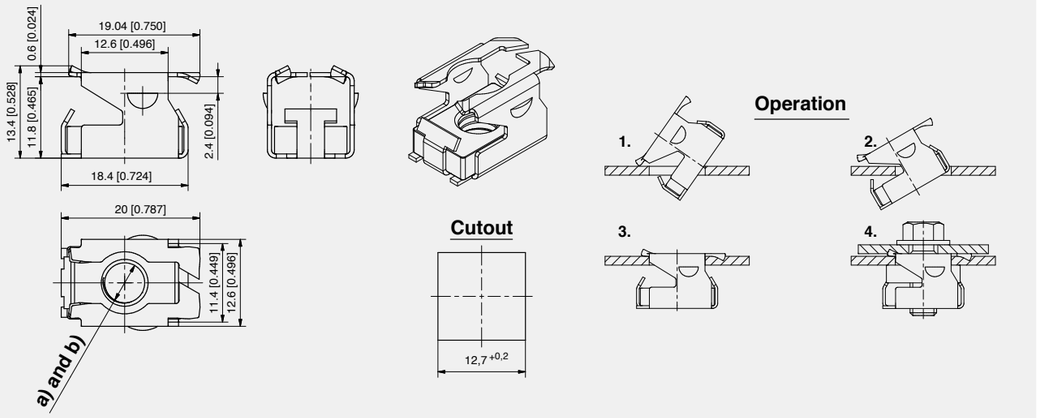
Ensures fixed connection of two metal sheets

Advantages

- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- Special design of the cage prevents from falling out of the cutout.
- Vibration-proof according to DIN EN 61373.

Materials

- **Cage:** steel, zinc plated
- **Nut:** steel, zinc plated



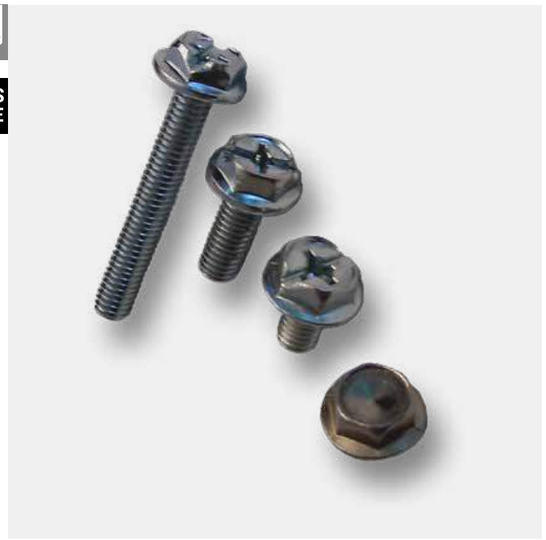
Cage Nuts

	Part Number	Version	Material	Surface	Packaging unit
a)	350-2098.00-00000	M5	steel	zinc plated	200 pcs.
b)	350-2097.00-00000	1/4-20UNC	steel	zinc plated	200 pcs.

Serrated Screws

[6-040]

RoHS WEEE



Advantages

- Hexagon screw with under-head serrations with Phillips/ slot head.
- Versions with powder locking dot on request.

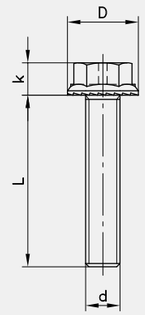
Materials

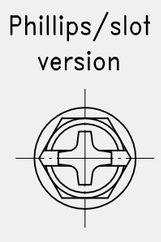
- **Serrated Screws:** steel, zinc plated property class 5.8 or stainless steel AISI 304

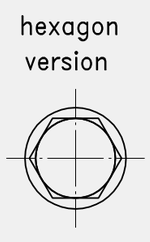
Remarks

202-0606.**04**-00000 = only available with hexagon head.

202-0635.00-00000 = as long as stock lasts, hexagon head property class 8.8.







Serrated Screws

Part Number	*d	L	k	D	SW	Material	Surface
202-0506.00-00000	M5	6 mm	4.5 mm	10	8 mm	steel	zinc plated
202-0508.00-00000	M5	8 mm	4.5 mm	10	8 mm	steel	zinc plated
202-0606.00-00000	M6	6 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0607.00-00000	M6	7 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0608.00-00000	M6	8 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0610.00-00000	M6	10 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0616.00-00000	M6	16 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0620.00-00000	M6	20 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0625.00-00000	M6	25 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0630.00-00000	M6	30 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0635.00-00000	M6	35 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0640.00-00000	M6	40 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0650.00-00000	M6	50 mm	5.5 mm	13,5	10 mm	steel	zinc plated
202-0810.00-00000	M8	10 mm	7.5 mm	16,5	13 mm	steel	zinc plated
202-0606.04-00000	M6	6 mm	5.5 mm	13,5	10 mm	stainless steel AISI 301	stainless steel
202-0608.04-00000	M6	8 mm	5.5 mm	13,5	10 mm	stainless steel AISI 301	stainless steel
202-0610.04-00000	M6	10 mm	5.5 mm	13,5	10 mm	stainless steel AISI 301	stainless steel
202-0616.04-00000	M6	16 mm	5.5 mm	13,5	10 mm	stainless steel AISI 301	stainless steel

Countersunk Screws and Hexagon Nuts

[6-041]

RoHS WEEE



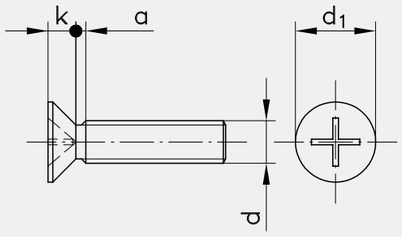
Advantages

- Countersunk machine screws according to DIN 965.
- Hex. nut according to DIN 934 and DIN 985.

Materials

Countersunk machine screws and hex. nuts: steel, zinc plated

d = M5	d = M6	d = M8
a = 1.6	a = 2.0	a = 2.5
k = 2.5	k = 3.0	k = 4.0
d_1 = 9.2	d_1 =11.0	d_1 =14.5



Countersunk screw

Part Number	Dimension	Material	Surface
860-0965.00-00512	M5 x 12	steel	DIN 965 zinc plated
860-0965.00-00516	M5 x 16	steel	DIN 965 zinc plated
860-0965.00-00520	M5 x 20	steel	DIN 965 zinc plated
860-0965.00-00525	M5 x 25	steel	DIN 965 zinc plated
860-0965.00-00530	M5 x 30	steel	DIN 965 zinc plated
860-0965.00-00540	M5 x 40	steel	DIN 965 zinc plated
860-0965.00-00612	M6 x 12	steel	DIN 965 zinc plated
860-0965.00-00616	M6 x 16	steel	DIN 965 zinc plated
860-0965.00-00620	M6 x 20	steel	DIN 965 zinc plated
860-0965.00-00625	M6 x 25	steel	DIN 965 zinc plated

Hexagon nut

Part Number	Dimension	self-locking	Material	Surface	Minimum order quantity
860-0934.00-00005	M5		steel	DIN 934 8.8 zinc plated	200 pcs.
860-0934.00-00008	M8		steel	DIN 934 8.8 zinc plated	200 pcs.
860-0985.00-00005	M5	Yes	steel	DIN 985 8.8 zinc plated	200 pcs.

Screw Assembly for Terminal Box Cover

[6-043]

IP 66

RoHS WEEE

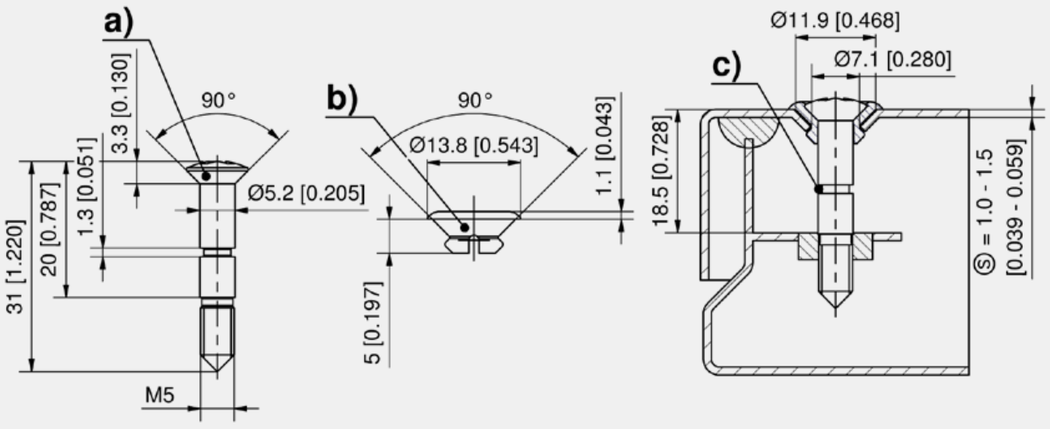


Advantages

- Screw assembly consists of raised countersunk M5x30 Phillips H2 screw and sleeve.
- Meets IP66 certification (applicable for installation example shown below with even compression of the foam/glued seal).
- Additional lengths and materials of the screw available on request.
- Captive by using O-ring 839-3770.00-00412.

Materials

- **Raised countersunk screw:** steel, zinc plated
- **Sleeve:** TPV / Santoprene



Screw assembly

	Part Number	Version	Material	Surface
a)	202-1103.15-00530	Raised countersunk screw, M5x30	steel	zinc plated
b)	203-0655.61-00000	Sleeve	TPV Santoprene	black

	Specific accessories
c)	839-3770.00-00412 **O-Ring 4 x 1,2mm**

Nut Plate

[6-042]

RoHS WEEE

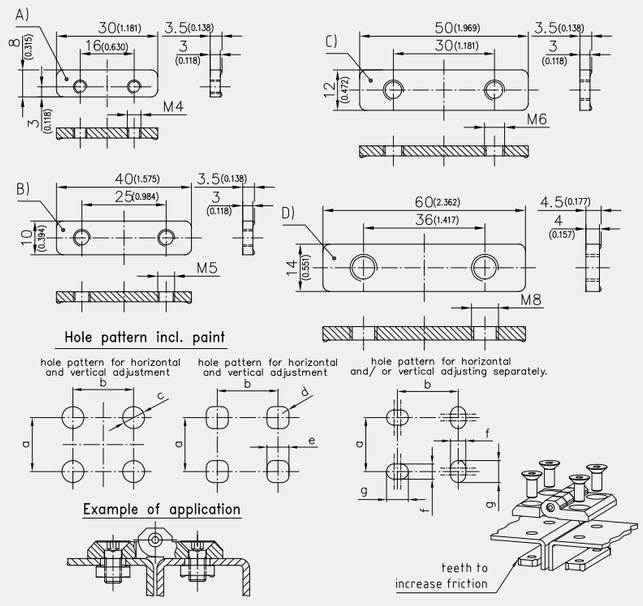


Advantages

- The nut plates have been designed to allow an easy installation of the hinges in our 218-series. Tightening the screws from the outside only.
- Elimation of the time-consuming fitting of small single nuts in often quite difficult accessible corners.
- Oversized holes/cutouts allow for horizontal and/or vertical adjusting.
- Adjustment and alignment with just one tool, only from outside.
- The teeth on all 4 corners create enough friction to simplify installation and adjusting.
- If this friction is not wanted: these teeth can also point away from the inner skin of the door/frame.

Materials

- **Nut plate:** steel, zinc plated

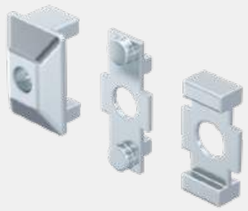


Nut Plate

	Part Number	Thread size	a	b	Ø c	Radius d	e	f	g	Material	Surface
A)	218-0907.15-00000	M4	16 mm	18 mm	6.5 mm	2.0 mm	□6.5	4.5 mm	6.5 mm	steel	zinc plated
B)	218-0908.15-00000	M5	25 mm	25 mm	7.5 mm	2.5 mm	□7.5	5.5 mm	7.5 mm	steel	zinc plated
C)	218-0909.15-00000	M6	30 mm	30 mm	8.5 mm	3 mm	□8.5	6.5 mm	8.5 mm	steel	zinc plated
D)	218-0910.15-00000	M8	36 mm	36 mm	10.5 mm	4 mm	□10.5	8.5 mm	10.5 mm	steel	zinc plated

Tenon Blocks and Anti-Twist Protection

RoHS WEEE

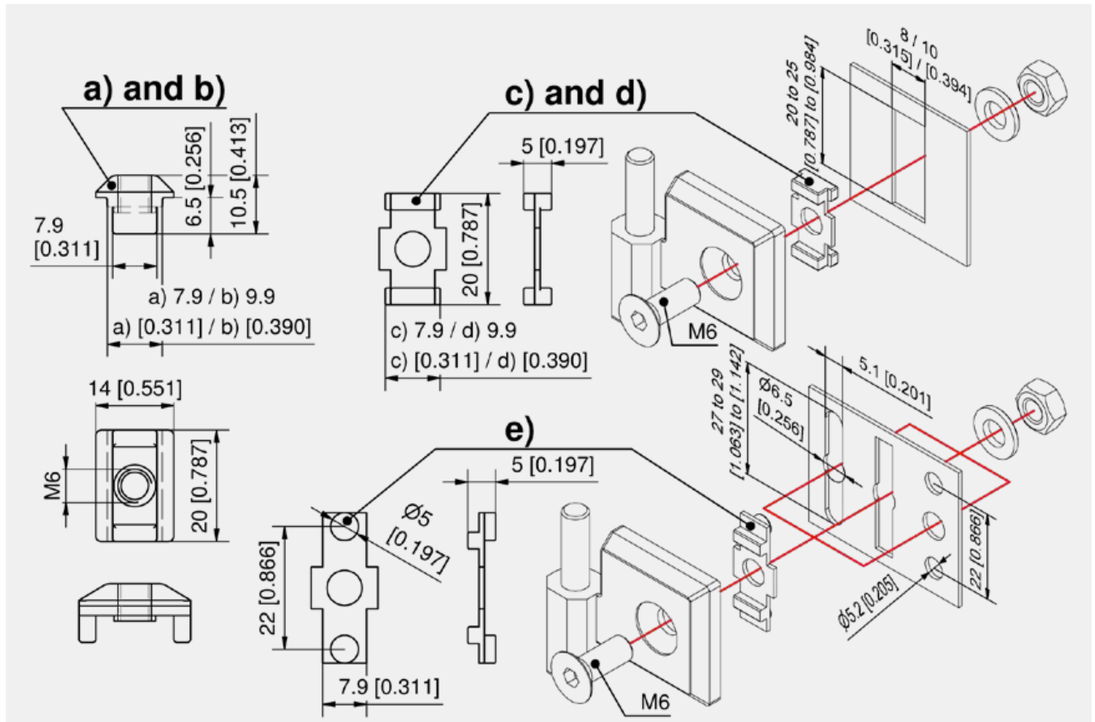


Advantages

- Also for application with hinges 4-247 and 4-247.01.
- Tenon blocks for 8 or 10mm groove.
- Fastening by M6.
- Anti-twist device for sheet metal construction.
- Horizontal or vertical application.
- Tolerance compensation possible by oblong holes.

Materials

- **Tenon blocks and Anti-twist device:** zinc die, untreated



Tenon Blocks and Anti-twist protection

	Part Number	Name	Groove width	Cutout	Thread size	Door-thickness
a)	265-1001.00-00000	Tenon blocks with anti-twist protection	8 mm	8 x 20 to 25mm	M6	0 - 3.2 mm
b)	265-1002.00-00000	Tenon blocks with anti-twist protection	10 mm	10 x 20 to 25mm	M6	0 - 3.2 mm
c)	265-1101.00-00000	Anti-twist protection for square	8 mm	8 x 20 to 25mm		
d)	265-1102.00-00000	Anti-twist protection for square	10 mm	10 x 20 to 25mm		
e)	265-1103.00-00000	Anti-twist protection for drill-holes		5.1mm		

DIRAK



DST Captive Flex-Fastener □9.5

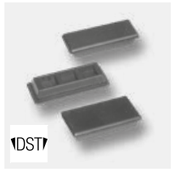
See page 726

Fastening Technology

Complementary Products



Overview



754 DST Cutout-Cover [5-960DST]



755 DST Reinforcement Plate [6-079DST]



756 DST Tools for Uninstallation [6-080DST]



757 Multi Key [6-101]



757 Universal Rail Key Stainless Steel [6-105]



758 Key [6-100]



760 Door Catcher with Catch Pin Stainless Steel [7-911]



761 Drawing Pocket [6-220]



762 Window oval [6-225]



763 Window [6-227]



764 Cover Stay [6-180]



765 Telescopic Cover Support [6-174]



766 Telescopic Cover Support [6-170]



768 Telescopic Cover Support [6-190]



769 Telescopic Cover Support Stainless Steel [7-300]



770 Wind Stop [6-200]



771 Wind Stop Stainless Steel [7-310]



772 Cable Tie Mount □9.5 and □12.7 [6-070]



773 Cable Tie Mount [6-068]



774 Velcro Cable Tie [6-078]



775 Wire Catch [6-060]



776 Cable Management Device □9.5 [6-062]



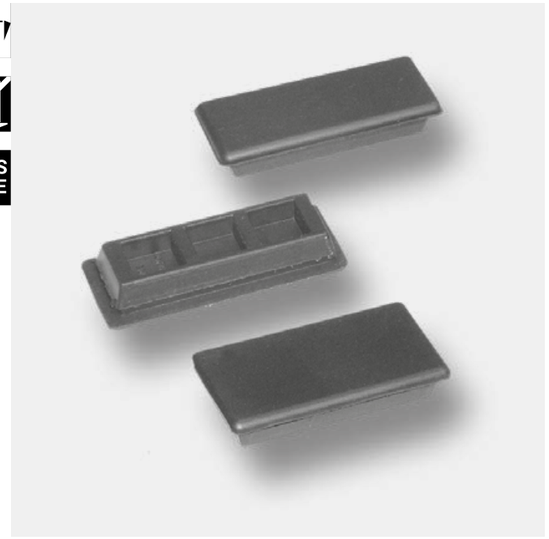
777 Cable Management Device □12.7 [6-061]



778 Clip-on Radius R30 [6-065]

DST Cutout-Cover

[5-960DST]



Advantages

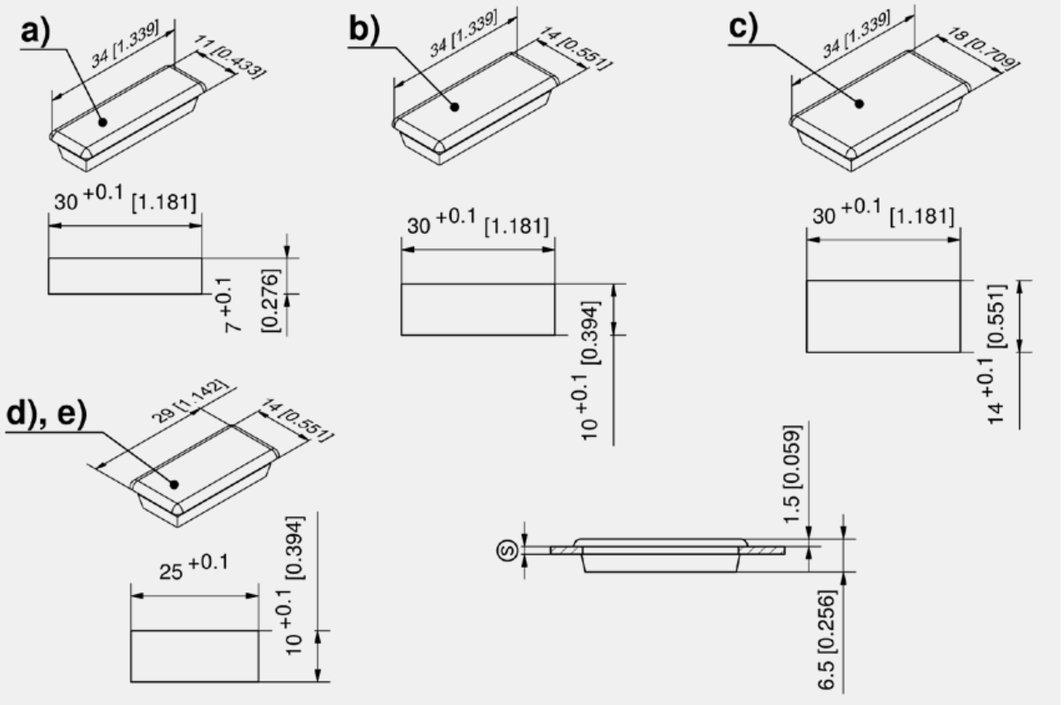
- DST Cutout-cover for cutout 30x7mm, 30x10mm, 30x14mm and 25x10mm.
- Tool-less installation.

Materials

- **Cutout-cover:** NBR, black or neoprene 70° shore

Remarks

(s) = 1.5 +/-0.1



Cutout-cover

	Part Number	Cutout	Material	Surface
a)	292-0401.00-03007	30x7 mm	NBR	black
b)	292-0401.00-03010	30x10 mm	NBR	black
c)	292-0402.00-03014	30x14 mm	NBR	black
d)	292-0403.06-09005	25x10 mm	neoprene 70°	black
e)	292-0403.06-07035	25x10 mm	neoprene 70°	light grey RAL 7035

DST Reinforcement Plate

[6-079DST]



Advantages

- DST Reinforcement plate for cutouts 30x8mm, 30x10mm, 30x14mm and 30x15mm.
- For using the DIRAK-SNAP-Technology in thin-walled sheets and for higher loads.
- Tool-less installation at the same time or later.
- This provides a vibration-proof connection of the reinforcement plate with the DST product.
- One side angled to be used at bendings.
- Can also be used for the un-installation of DST products with the a.m. cutouts.

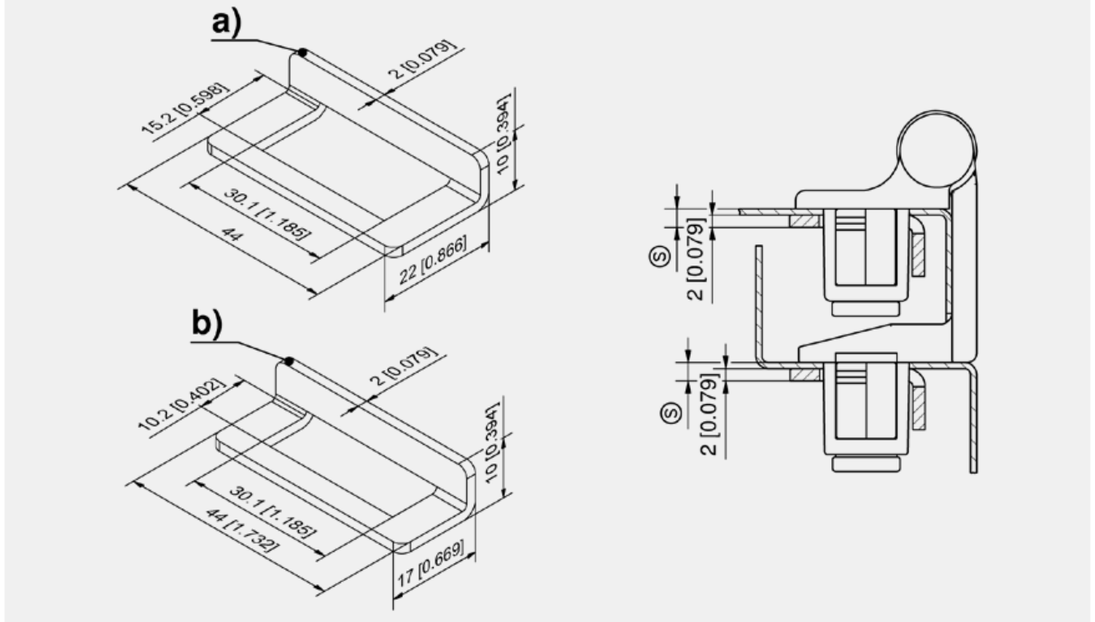
Materials

- **Reinforced Plate:** steel, zinc plated

Remarks

The clamping range (S) results in sheet thickness and reinforcement plate.

Example: Sheet thickness 1mm + reinforcement plate 2mm = 3mm clamping range (S)



Reinforcement plate

	Part Number	Cutout	Cutout 2	Material	Surface
a)	292-0701.15-01530	30x14 mm	30x15 mm	steel	zinc plated
b)	292-0702.15-01030	30x8 mm	30x10 mm	steel	zinc plated

Complementary Products

DST Tools for Uninstallation

[6-080DST]

DST

RoHS WEEE

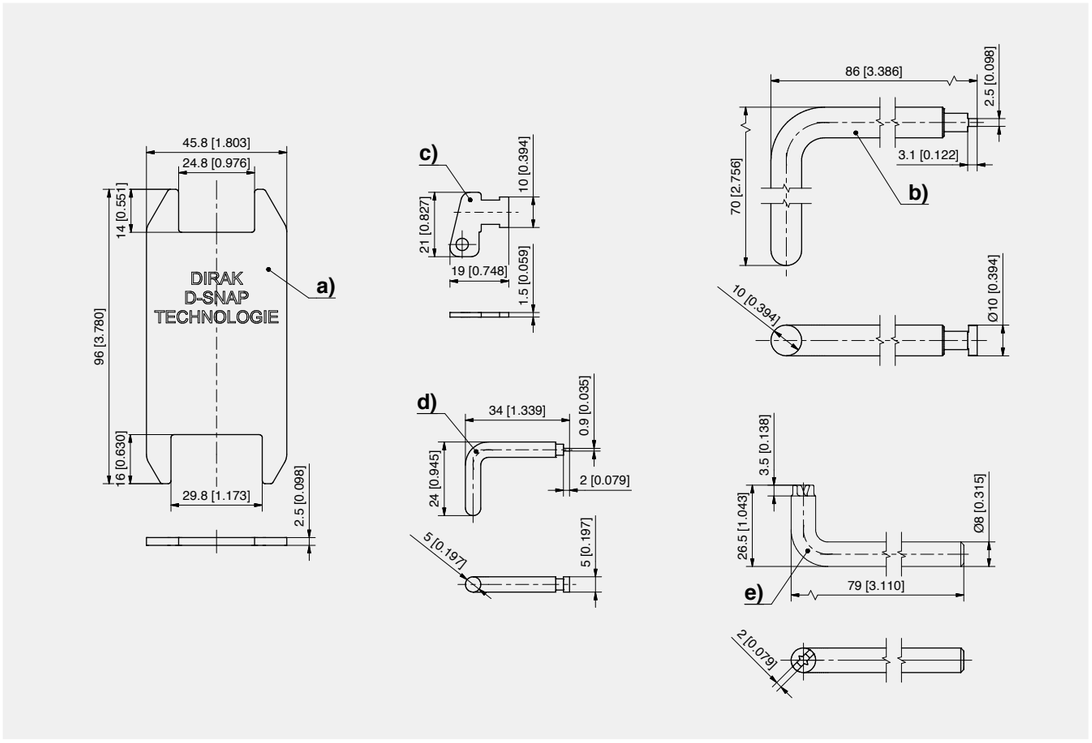


Advantages

- a) Tool for uninstallation for cutouts 30x8mm, 30x10mm, 30x14mm and 30x15mm and 25mm (0.984) length.
- b), d) and e) Tool for uninstallation of DST fasteners.
- c) Tool for uninstallation for cutout with 14mm and 15mm width.

Materials

- **Tool for uninstallation:** stainless steel, brass and steel zinc plated



Tool for uninstallation

	Part Number	Material	Surface
a)	292-0306.80-02530	stainless steel	
b)	292-0311.15-00000	steel	zinc plated
c)	292-0301.15-00000	steel	zinc plated
d)	292-0302.70-00000	brass	untreated
e)	292-0312.83-00000	stainless steel	

Complementary Products

Multi Key

[6-101]

RoHS WEEE

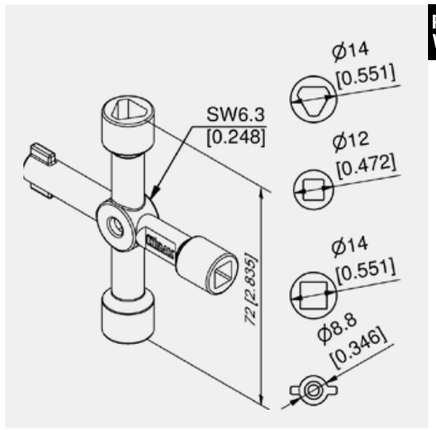


Advantages

- Multi Key for 4 inserts:
  Triangular 8mm
  Square 6mm
  Square 8mm
  Double bit 5mm

Materials

- **Multi Key:** zinc die, zinc plated



Multi Key

Part Number	Type	Material	Surface
204-0701.07-07500	Multi Key for Inserts	zinc die	zinc plated

Universal Rail Key Stainless Steel

[6-105]

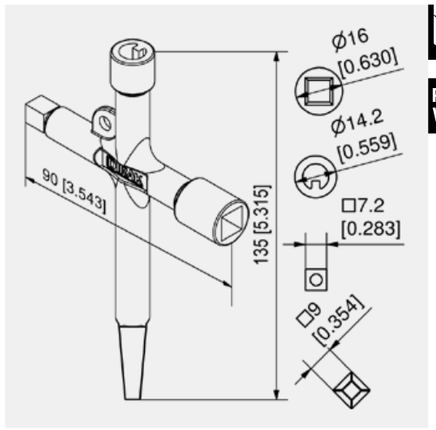


Advantages

- Universal key for railway applications.
- Designed for increased leverage for hard to turn lock.
- One tool for 4 inserts:
  Conical square insert (Berne key),
  Socket square 7.6mm insert (UK insert),
  DÜWAG insert,
  Conical square 9mm.
- Intergrated eyelet for attaching key ring or key bands.

Materials

- **Universal rail key:** stainless steel, untreated



Rail key

Part Number	Insert	Material	Surface
204-0702.80-00000	Universal	stainless steel	untreated

Complementary Products

Key

[6-100]

RoHS WEEE



Advantages

- Keys for Quarter-Turns, 200 and 220 series and for inserts see product system 2-141.

Materials

A), B), and C)

- **Key:** zinc die, untreated

D) and E)

- **Polyamide key:** PA, black

F)

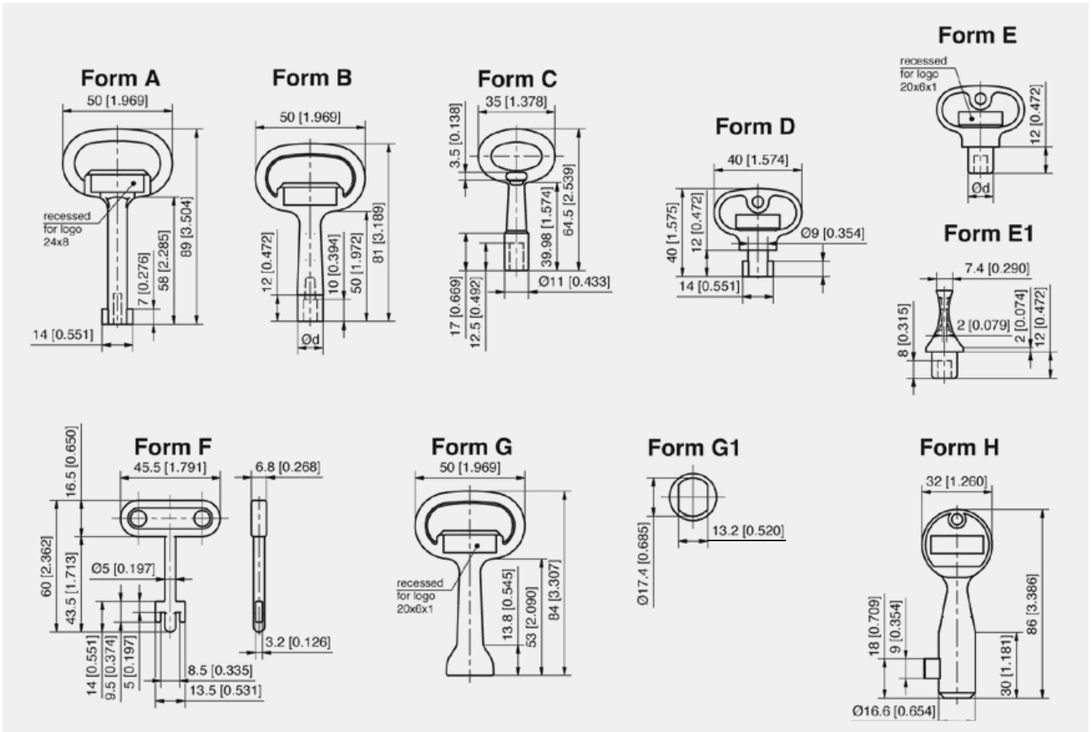
- **Key:** zinc die, nickel plated

G)

- **Key SW13:** zinc die, untreated or blue, powder-coated

H)

- **PZ building key:** PS, black



Key form A

Part Number	Name	Insert	Material	Surface
204-0107.00-00000	double bit for pin	Double bit 3mm pin	zinc die	untreated
204-0108.00-00000	double bit for pin	Double bit 5mm pin	zinc die	untreated

Key form B

Part Number	Name	Insert	D	Material	Surface
204-0102.00-00000	female key	Square 7mm		zinc die	untreated
204-0103.00-00000	female key	Square 8mm		zinc die	untreated
204-0104.00-00000	female key	Triangular 7mm	14.2 mm	zinc die	untreated
204-0105.00-00000	female key	Triangular 8mm		zinc die	untreated
204-0106.00-00000	female key	Triangular 6.5mm CNOMO	14.2 mm	zinc die	untreated
204-0109.00-00000	female key	Daimler Benz type	11.5 mm	zinc die	untreated
204-0110.00-00000	female key	Crown type	15.9 mm	zinc die	untreated
204-0111.00-00000	female key	Square 6mm		zinc die	untreated
204-0112.00-00000	female key	Triangular 6.5mm		zinc die	untreated
204-0113.00-00000	female key	Triangular 9mm EDF	15.9 mm	zinc die	untreated
204-0116.00-00000	female key	Crescent czech	15.9 mm	zinc die	untreated
204-0119.00-00000	male key	Male square 6mm		zinc die	untreated
204-0120.00-00000	male key	Male square 7mm		zinc die	untreated
204-0121.00-00000	male key	Male hex. 8mm		zinc die	untreated
204-0133.30-00000	male key	Male hex. 8mm (5/16")		zinc die	untreated
204-0134.30-00000	female key	Hex. 7/16"	15.6 mm	zinc die	untreated
204-0139.00-00000	female key	Hex. SW10	15.9 mm	zinc die	untreated

Key form C

Part Number	Name	Insert	Material	Surface
204-0501.00-00000	female key	Square 6mm	zinc die	untreated
204-0502.00-00000	female key	Triangular 6.5mm	zinc die	untreated

Key form D

Part Number	Name	Insert	Material	Surface
204-0407.03-00000	double bit for pin	Double bit 3mm pin	PA	black
204-0408.03-00000	double bit for pin	Double bit 5mm pin	PA	black

Key form E

Part Number	Name	Insert	D	Material	Surface
204-0401.03-00000	female key, hollow (logo both sides)	Square 6mm	11.5 mm	PA	black
204-0402.03-00000	female key, hollow (logo both sides)	Square 7mm	15.5 mm	PA	black
204-0403.03-00000	female key, hollow (logo both sides)	Square 8mm	15.5 mm	PA	black
204-0404.03-00000	female key, hollow (logo both sides)	Triangular 6.5mm	11.5 mm	PA	black
204-0405.03-00000	female key, hollow (logo both sides)	Triangular 7mm	15.5 mm	PA	black
204-0406.03-00000	female key, hollow (logo both sides)	Triangular 8mm	15.5 mm	PA	black
204-0409.03-00000	female key, hollow (logo both sides)	Blade 10 x 1,4		PA	black

Key form F

Part Number	Name	Insert	Material	Surface
204-0302.42-00000	FIAT key	FIAT	zinc die	nickel plated

Key form G

Part Number	Name	Insert	Material	Surface
204-0140.00-00000	female key	SW13	zinc die	untreated
204-0140.39-05010	Key SW13	SW13	zinc die	blue, powder-coated

Key form H

Part Number	Name	Material	Surface
204-0301.00-00000	PZ building key	PS	black

Door Catcher with Catch Pin Stainless Steel [7-911]



Advantages

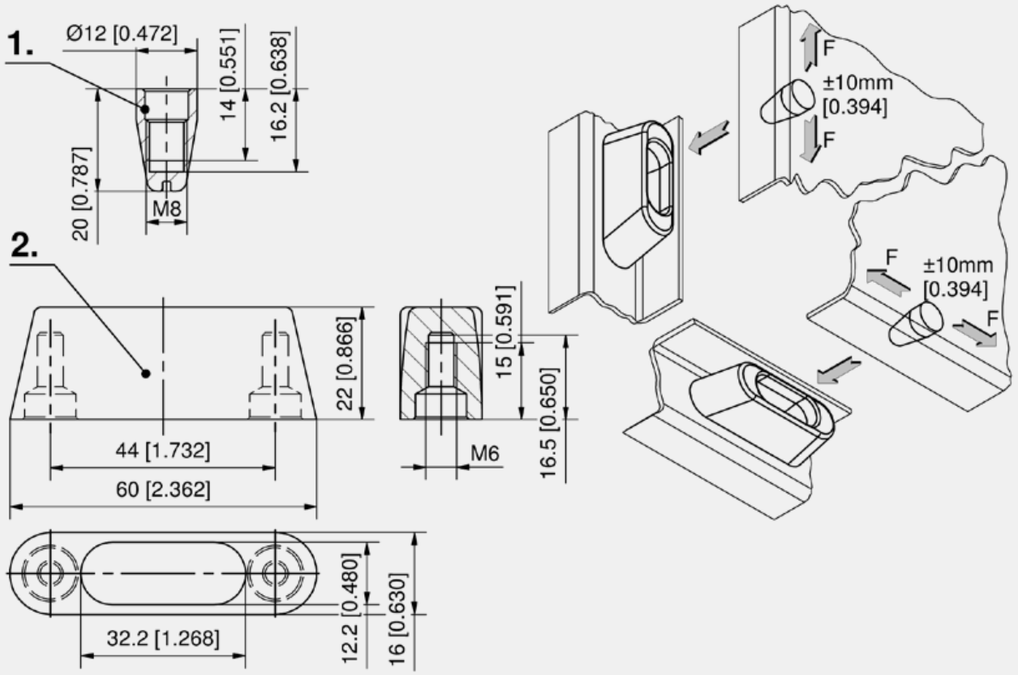
- Door catcher with catch pin, 2-parts.
- Adjusts "door to frame" always in the right position to each other.
- Applicable horizontally and vertically.
- Applicable where cabinets being exposed to dynamic loading (e.g. vibrations and shocks).
- A locking of the door will remain - even if vibrations loads occur.
- A "hanging" of the door will be balanced.
- The door-part will be screwed onto a welding stud, M8.
- The frame-part will be mounted with screws, M6.

Materials

- **Door catcher with catch pin:** stainless steel AISI 316Ti

Remarks

1. catch pin
2. door catcher



Door Catcher with Catch Pin

Part Number	Material	Vibration-proof	Installation type
241-9201.00-00000	stainless steel	Yes	screw-on

Drawing Pocket [6-220]



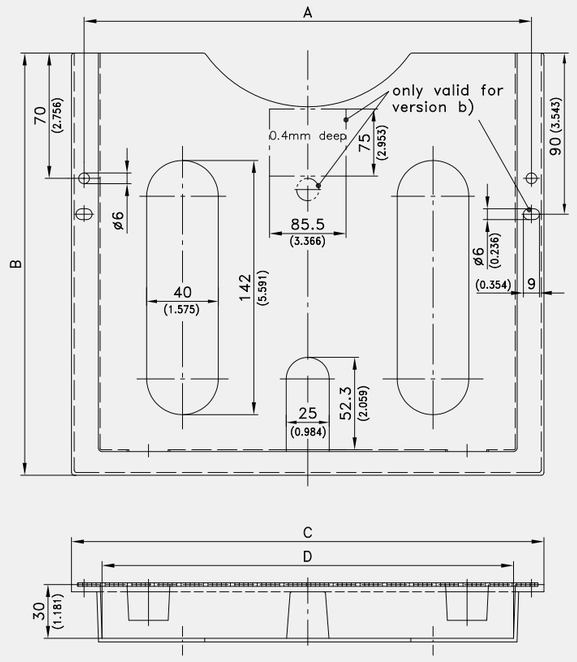
Advantages

- Self adhesive drawing pocket for heavy duty applications.
- a) with two 6mm holes, A4 format.
- b) with two 9x6mm oblong holes.

Materials

a) and b)

- **Drawing pocket:** PS, impact proof



Drawing Pocket

	Part Number	A	B	C	D	Holes	Surface	Installation type
a)	231-9001.00-00000	250 mm	236 mm	264 mm	230 mm	Ø6	grey RAL 7035	self-adhesive / screw-on
b)	231-9004.00-00000	320 mm	248 mm	336 mm	298 mm	9x6	grey RAL 7035	self-adhesive / screw-on
b)	231-9005.00-00000	320 mm	248 mm	336 mm	298 mm	9x6	orange RAL 2000	self-adhesive / screw-on

Window oval

[6-225]

IP 65

RoHS WEEE

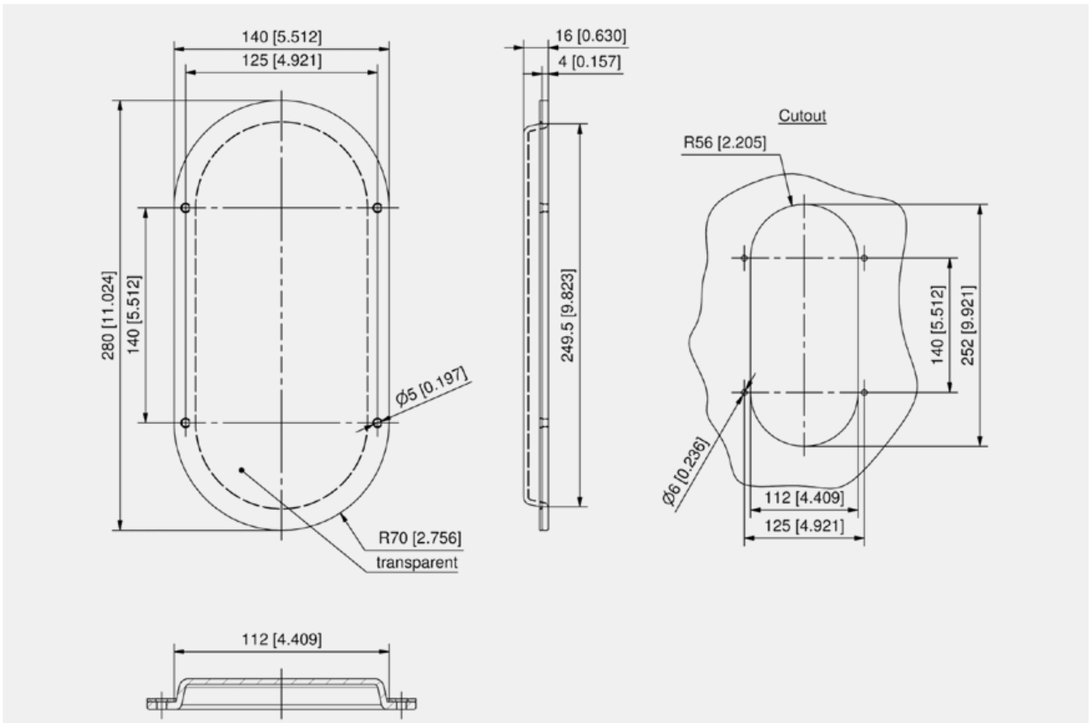


Advantages

- Self-adhesive seal.
- 4 holes for flat head screw M5.

Materials

- **Window:** polycarbonate PC
- **Self-adhesive seal:** EPDM, cell sponge rubber



Window

Part Number	Shape	Width	Height	Cutout	Fastening type
251-9101.00-00000	Oval	140	280	112 x 252	self-adhesive/screw-on

Complementary Products

Window

[6-227]

clip-in

IP 65

RoHS WEEE

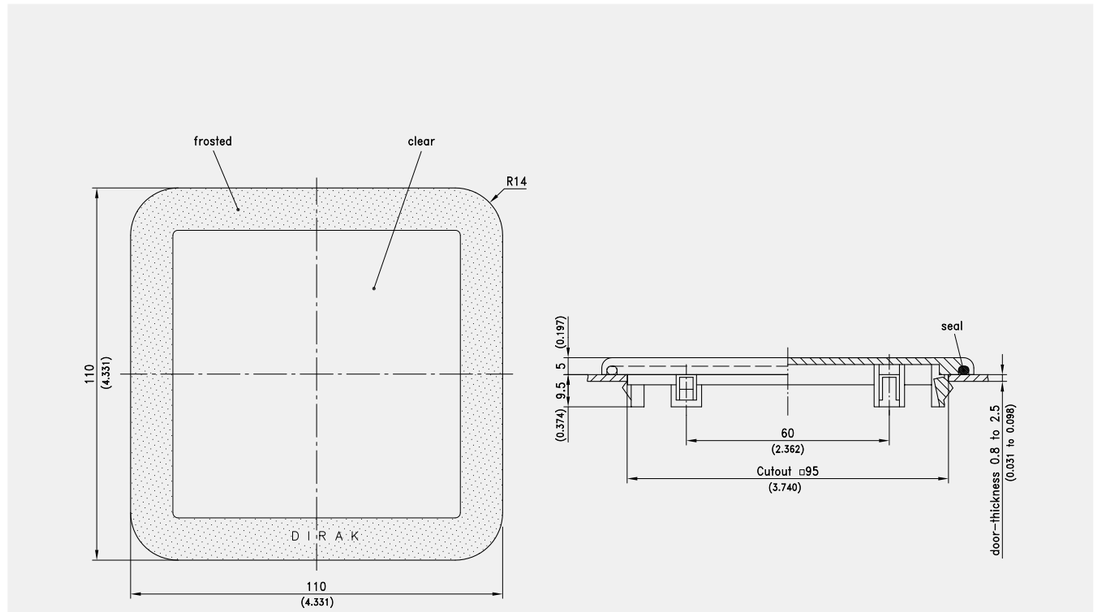


Advantages

- Window, clip-in, for door-thickness 0.8 to 2.5mm (0.031 to 0.098).
- Version with sealing is IP65 according to DIN EN 60529.

Materials

- **Window:** polycarbonate PC
- **Seal:** NBR



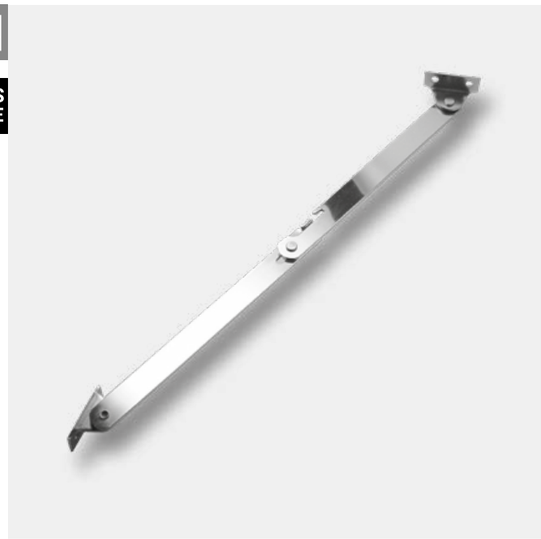
Window

Part Number	Shape	Version	Door-thickness	Width	Height	Cutout	Fastening type
251-0102.00-00000	square	without Sealing	0.8 - 2.5 mm	110	110	□95	clip-in
251-9102.00-00000	square	with Sealing	0.8 - 2.5 mm	110	110	□95	clip-in

Complementary Products

Cover Stay

[6-180]



steel, nickel plated

Advantages

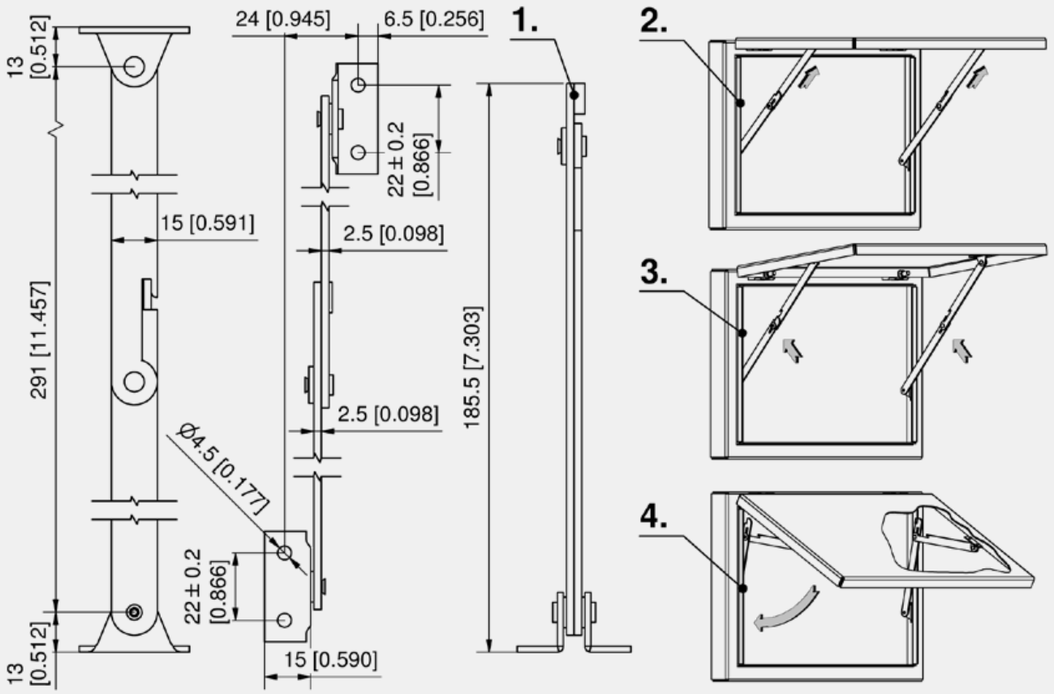
- Cover stay screw-on or weld-on.

Materials

- **Cover stay:** steel, nickel plated

Remarks

1. snap spike
2. press up to close
3. push in
4. close the flap



Cover Stay

Part Number	Version
230-9101.00-00000	RH
230-9102.00-00000	LH

Telescopic Cover Support

[6-174]

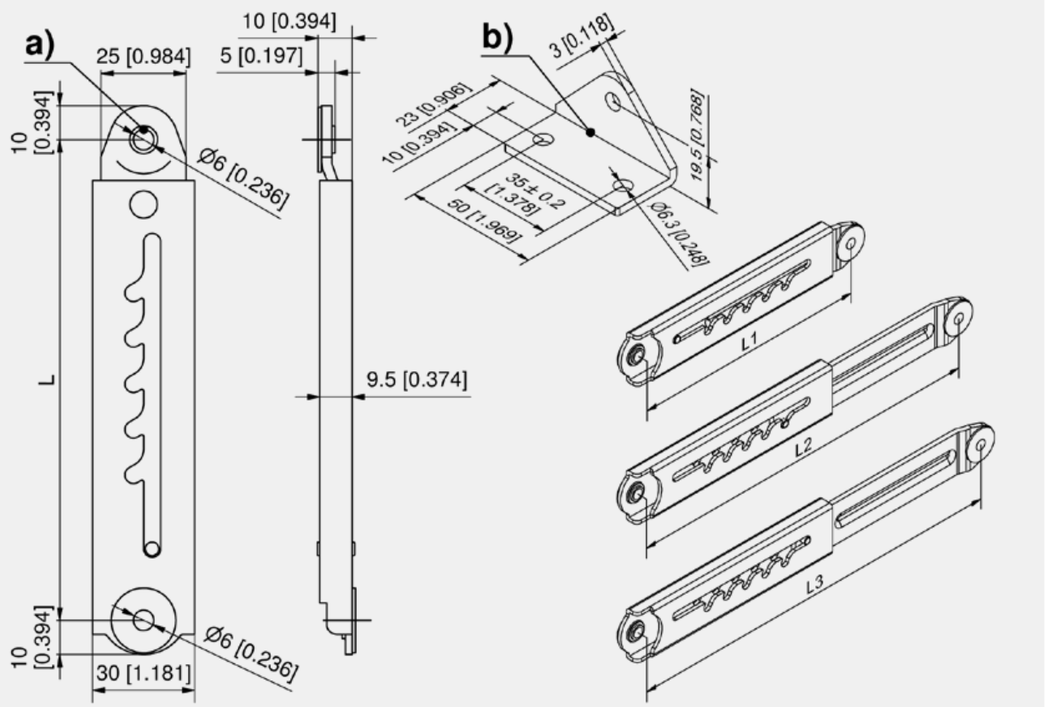


Advantages

- Telescopic Cover stay with automatic multiple stops and automatic release in the end position, for desk-leafs and covers.
- RH / LH application.
- To release the mechanism, the cover stay has to be extended completely.
- 2 Spacers for M6 screws included.

Materials

- **Telescopic cover support:** steel, zinc plated
- **Mounting angle:** steel, zinc plated



Telescopic Cover Support

	Part Number	Length L1 retracted	1st stop	2nd stop	3rd stop	4th stop	5th stop	6th stop	7th stop	8th stop	9th stop	10th stop	Length L3 extended	Quantity of stops
a)	230-9308.00-00000	140±2	164 mm	177 mm	189.5 mm	202 mm	214.5 mm						230±2	5
a)	230-9309.00-00000	214±2	234.5 mm	248 mm	261 mm	274.5 mm	288 mm	301 mm	314.5 mm	327 mm	340.5 mm	354 mm	374±2	10

Accessories
b) 230-9401.00-00000 **Mounting angle**

Telescopic Cover Support

[6-170]



Advantages

- Telescopic cover support for covers and desk-leafs.
- Automatic locking and unlocking functionality by guide mechanism.
- Guides separately riveted, locking lever made of stainless steel.
- Robust design.
- RH/ LH application.

Materials

- **Inner- and outer rails, mounting angles and cam plates:** steel, zinc plated
- **Catch lever:** stainless steel (cast)

Remarks

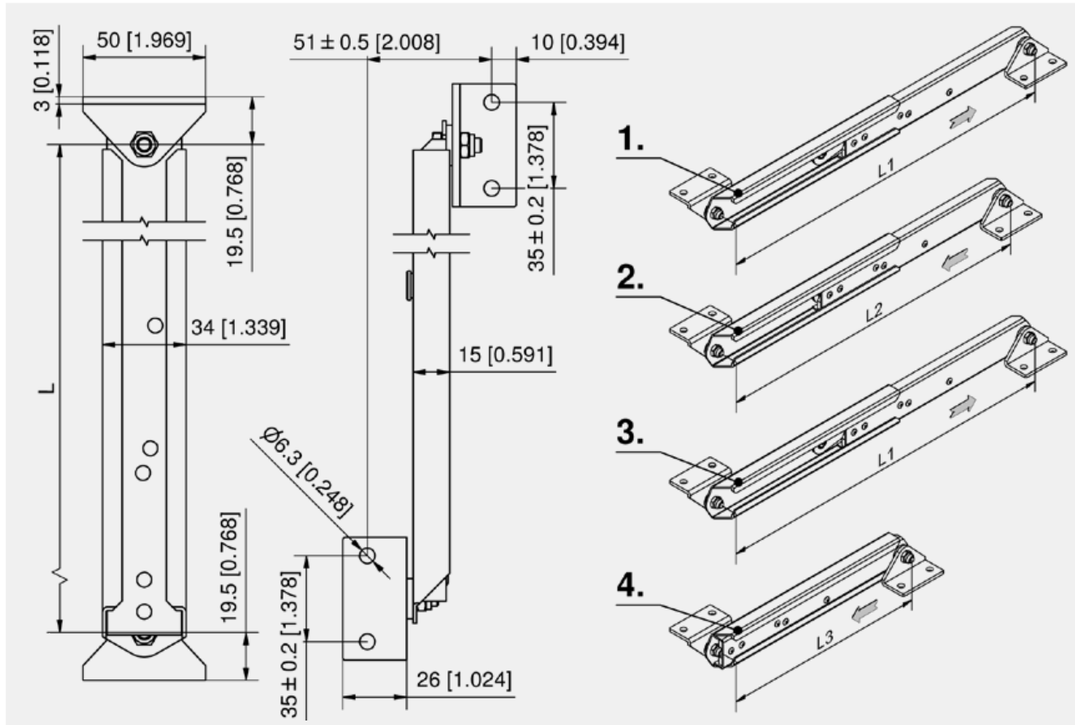
1. Alignment of the locking lever by complete extension of the telescopic cover support.

2. After retraction of 3 cm the telescopic cover support snaps in securely.

3. Renewed extension brings the locking lever back into free-run position.

4. The telescopic cover support can be retracted now.

Installation dimensions and example of application see www.dirak.com



Telescopic Cover Support

Part Number	Version	Length L1 extended	Length L2 extended, snapped	Length L3 retracted
230-9001.00-00000	RH/LH	335±2	365±2	215±2
230-9002.00-00000	RH/LH	725±2	695±2	395±2



Complementary Products

Telescopic Cover Support

Telescopic Cover Support

[6-190]



steel, zinc plated

Advantages

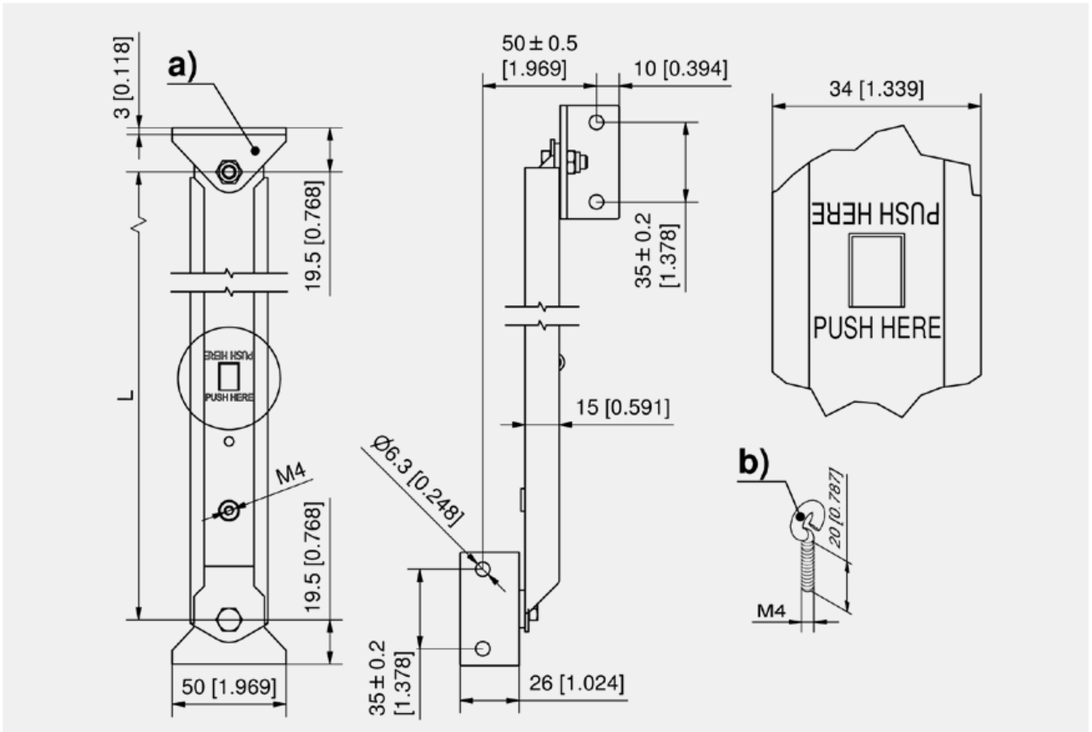
- RH and LH application.
- Clicks into place.
- The openening angle is determined by the dimensions X and Y.
- When using two cover stays ring bolts (2) can be screwed on the inside of both locks. After connecting them with a steel wire both cover stays can be unlocked simultaneous.

Materials

- **Telescopic cover support:** steel, zinc plated
- **Spring:** stainless steel

Remarks

Installation dimensions and example of application see www.dirak.com



Telescopic Cover Support

	Part Number	Length L retracted	Length L extended
a)	230-9305.00-00000	370±2	710±2
a)	230-9306.00-00000	215±2	355±2

Accessories

b) 860-0048.07-00420 **Ring bolt**

Telescopic Cover Support Stainless Steel

[7-300]



Advantages

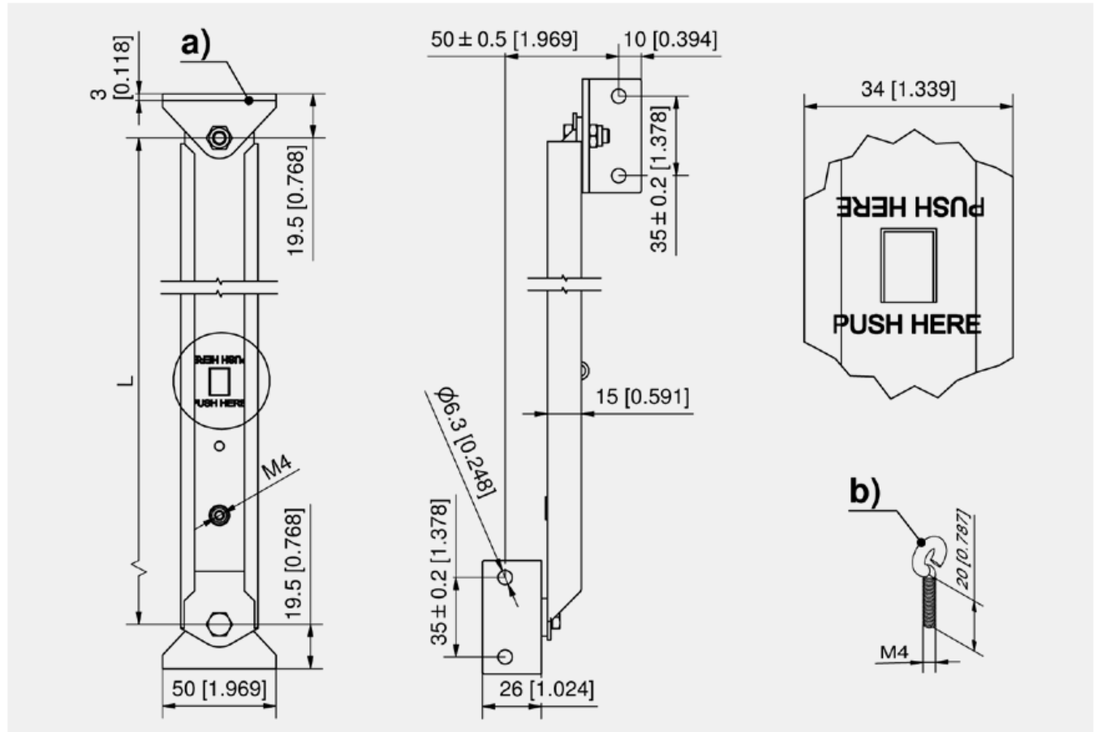
- For doors and lids.
- RH or LH application.
- For wide lids with 2 cover stays you can release the 2 stops by installing 2 eyelets connected by a steel wire.
- Dimensions X and Y determine the opening angle.
- Other length L on request.

Materials

- **Outer part, inner part, mounting bracket, snap lever, snap spike, spring and washer:** stainless steel AISI 304
- **Eyelet:** steel, zinc plated

Remarks

Installation dimensions and example of application see www.dirak.com



Telescopic Cover Support

	Part Number	Length L retracted	Length L extended
a)	230-9501.00-00000	370±2	710±2
a)	230-9502.00-00000	215±2	355±2

Accessories

b) 860-0048.07-00420 **Ring bolt**

Complementary Products

Wind Stop

[6-200]



steel, zinc plated

Advantages

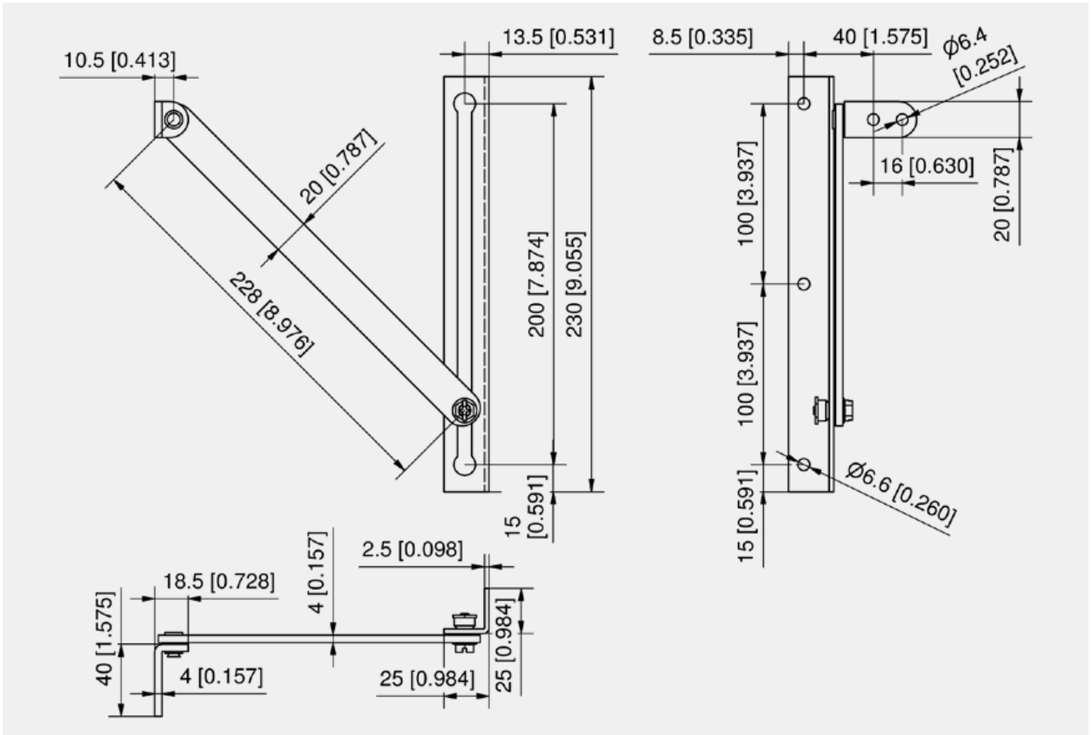
- Wind-stop with automatic lock.
- RH or LH application.
- Detailed dimensions see drawing.

Materials

- **Wind-stop:** steel, zinc plated

Remarks

Installation dimensions and example of application see www.dirak.com



Wind Stop

Part Number	Version	Automatic lock
221-9001.00-00000	RH/LH	Yes

Complementary Products

Wind Stop Stainless Steel

[7-310]



Advantages

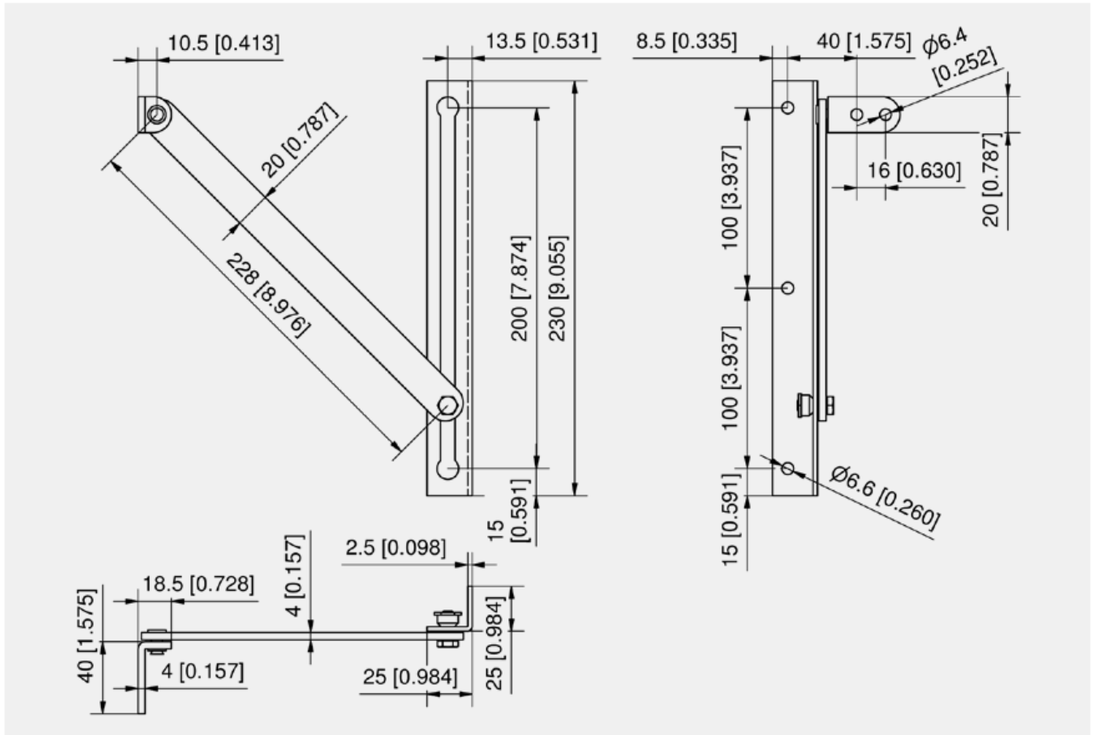
- Wind stop with automatic lock to keep the door open.
- RH or LH application.
- Detailed dimensions see drawing.

Materials

- **Wind stop:** stainless steel AISI 304

Remarks

Installation dimensions and example of application see www.dirak.com



Wind Stop

Part Number	Version	Automatic lock
221-9101.00-00000	RH / LH	Yes

Complementary Products

Cable Tie Mount ☐9.5 and ☐12.7

[6-070]





Advantages

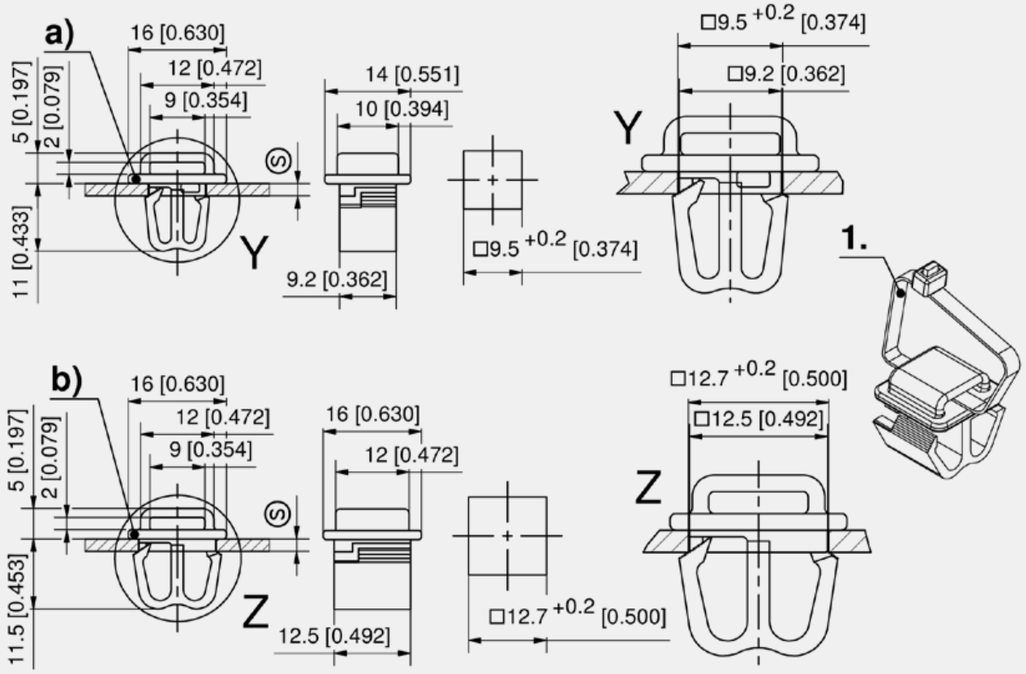
- Clips into the installation cutout ☐9.5 or ☐12.7 for simple installation.
- Tool-less installation.
- The square base (9.2 and 12.5) of the cable tie mount prevents it from turning within the installation cutout.
- Cable tie easily installed through loop.
- Audible click ensures proper secure installation.

Materials

- **Cable tie mount:** PA, black

Remarks

1. = Cable tie



Cable Tie Mount

	Part Number	Cutout	Clamping range	Installation type	Packaging unit
a)	214-0107.51-00000	☐9.5	1.5 - 2 mm	tool-less	250 pcs.
b)	214-0107.51-10000	☐12,7	1.5 - 2 mm	tool-less	250 pcs.

Accessories
6-078 **Velcro Cable Tie**

Cable Tie Mount

[6-068]

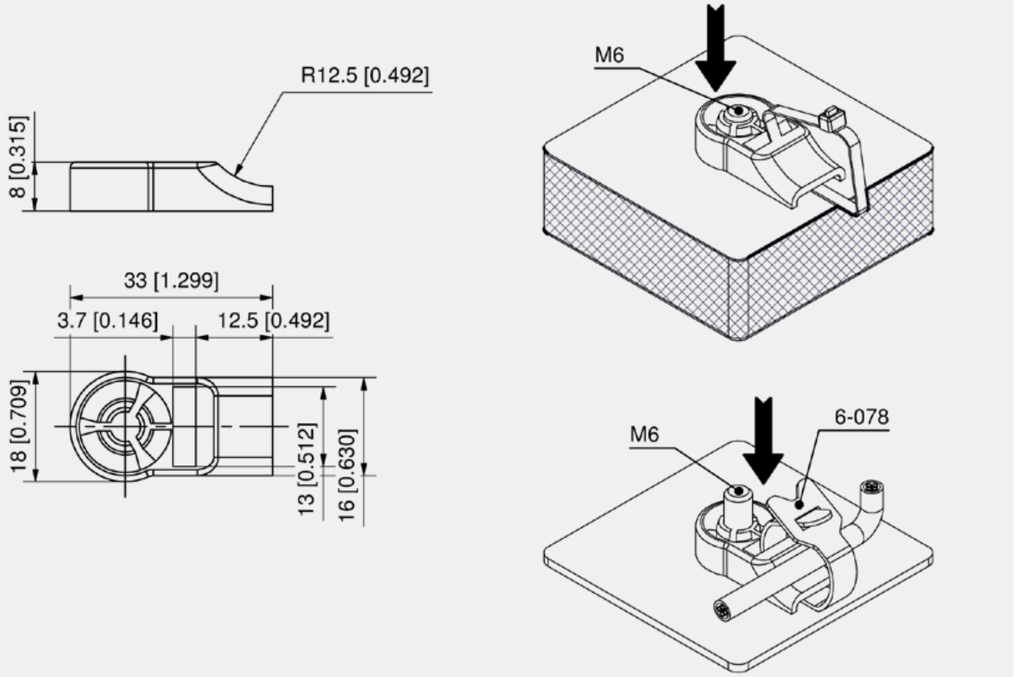


Advantages

- Cable tie mount for quick, tool-less assembly onto a M6 weld stud.
- Simple insertion of the cable tie through the upper insertion opening.
- Tool-less installation.
- Secure fit in any position on the weld stud.
- Can be removed by simply unscrewing counter clock-wise.

Materials

- **Cable tie mount:** PA, black



Cable Tie Mount

Part Number	Installation type	Packaging unit
214-0111.51-00000	tool-less	250 pcs.

Accessories
6-078 **Velcro Cable Tie**

Velcro Cable Tie

[6-078]

RoHS WEEE

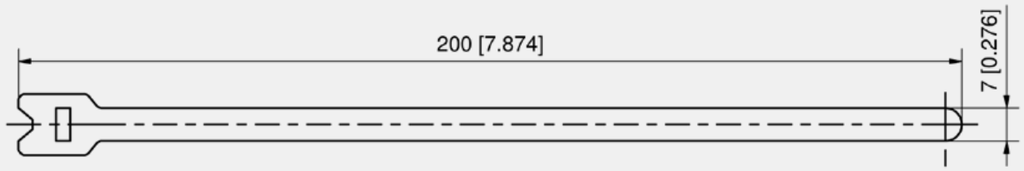


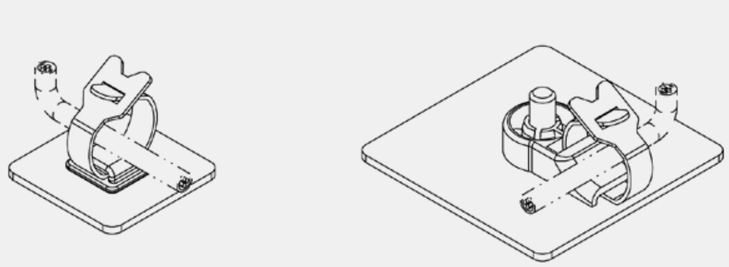
Advantages

- Velcro cable ties can be easily inserted into the holes in the cable tie bracket 6-068 and 6-070.
- Flexible application allows cables, supply lines and hoses to be wrapped easily, effectively and without tools.
- Can be reused multiple times.
- Protects sensitive materials from damage.
- Soft and flexible material.

Materials

- **Velcro cable tie:** PP and Velour, black
- **Peel back force:** 0.4 Ncm
- **Shear force:** 7.0 Ncm
- **Tensile strength:** 120 Ncm
- **Melting point:** 150°C





Velcro Cable Tie

Part Number	Version	Packaging unit
214-0112.00-00050	Length 200mm	50 pcs.

Accessories
6-070 **Cable Tie Mount □9.5 and □12.7**
6-068 **Cable Tie Mount**

Complementary Products

Wire Catch

[6-060]



Advantages

- Wire catches can be fitted onto pre-punched channels / profiles.
- Improves handling of power, network and fiber optic cables in the cabinet.
- Tool-less installation.
- Easy installation in a suitable square hole by turning 45°.
- The jamming of the bow parts in the range of the opening when the cable support is filled.
- For sheet-thickness 1.3 mm to 2.0 mm.

Materials

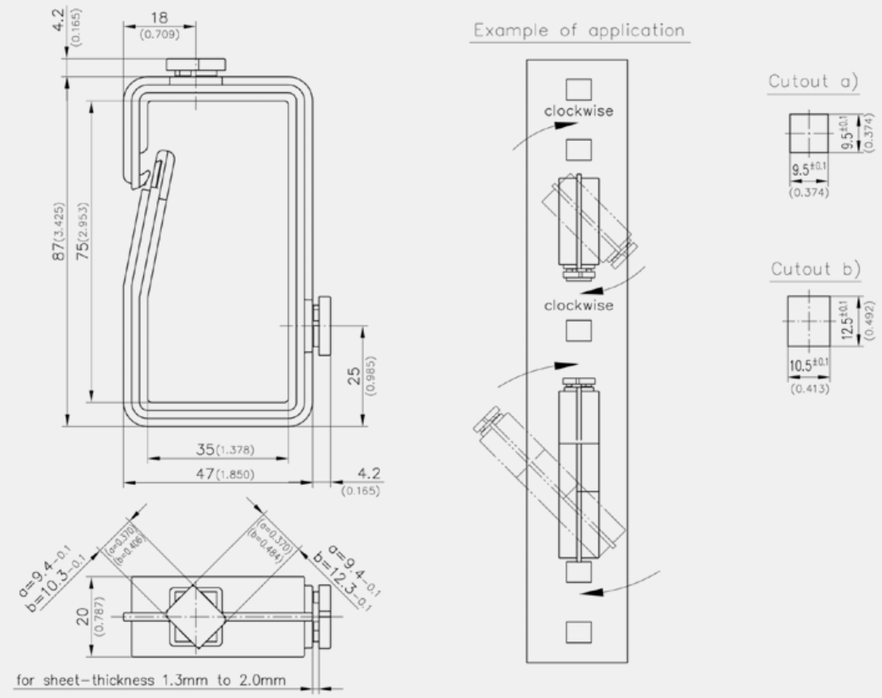
- **Wire catch:** PA, black

Remarks

Assembly: enter the wire catch in an angle of about 45° into the cutout and turn 45° clockwise. At this end position the special shape makes the wire catch fixed in the cutout.

UL

RoHS WEEE



Wire Catch

	Part Number	Cutout	Installation type
a)	214-0106.50-00013	□9.5	tool-less
b)	214-0105.50-00013	12.5x10.5	tool-less

Complementary Products

Cable Management Device □ 9.5

[6-062]



Advantages

- Cable management device for clipping onto a cutout of □9.5 with an additional DST fastener e.g. rail frame.
- Tool-less installation.
- Prevents the cable management device from turning.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.
- The (S) dimension indicates the total thickness of the sheet metal panels.

Materials

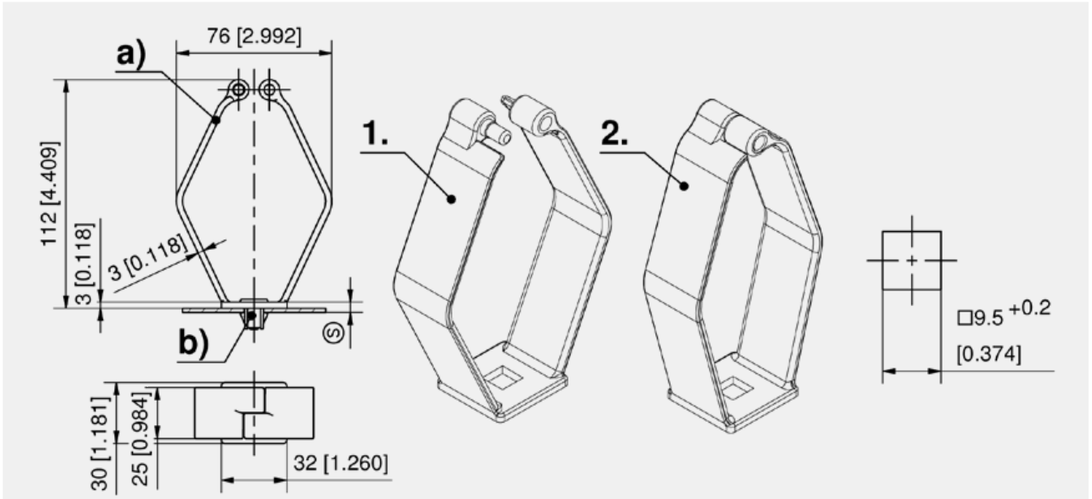
- **Cable management device:** PA, black

Remarks

b) = Fastener

1. = open

2. = closed



Cable Management Device

	Part Number	Version	Cutout	Installation type	Packaging unit
a)	214-0108.51-00000	max. clamping range 6.4mm	□9.5	tool-less	100 pcs.

	Accessories
b)	1-041.05DST **DST Fastener □9.5 with leaf spring**
b)	1-041.04DST **DST Fastener □9.5 without leaf spring**
	6-065 **Clip-on Radius R30**

Complementary Products

Cable Management Device □ 12.7

[6-061]



Advantages

- Clip-in cable management device for a cutout of □12.7, e.g. rail frame.
- Tool-less installation.
- The square base 12.5 of the cable management device prevents it from turning within the installation cutout.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.

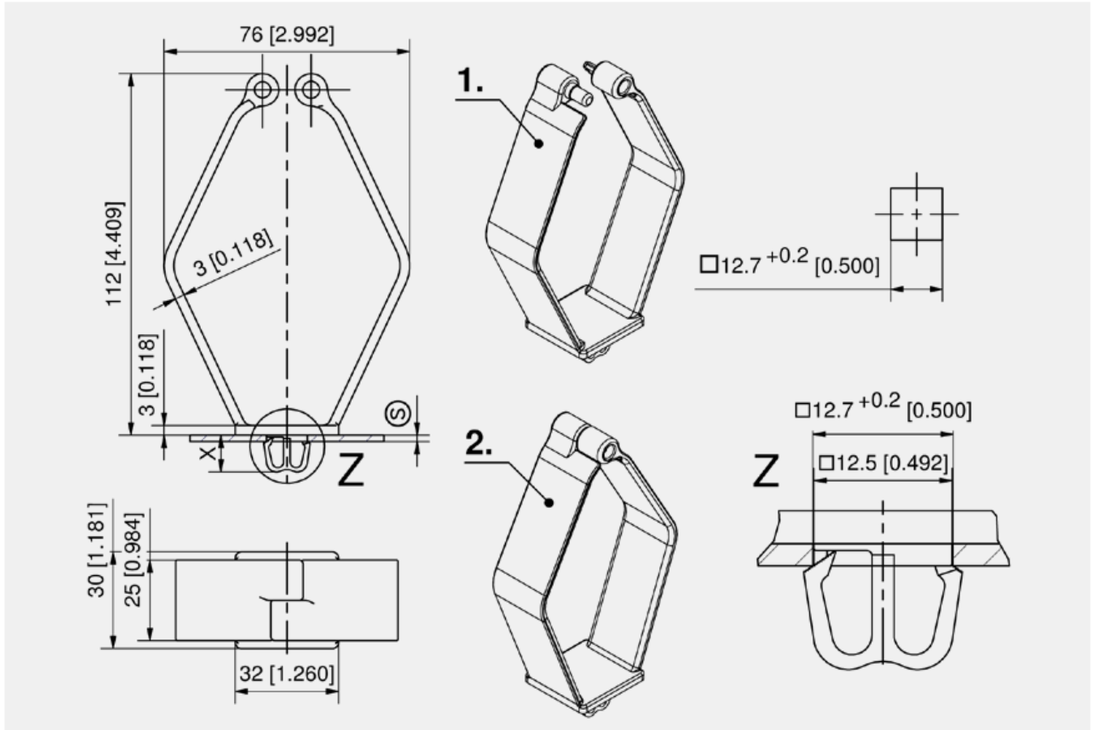
Materials

- **Cable management device:** PA, black

Remarks

1. = open

2. = closed



Cable Management Device

Part Number	Cutout	Installation type	Clamping range	Dimension X	Packaging unit
214-0108.51-20000	□12.7	tool-less	1.5 - 2 mm	11.4 mm	100 pcs.

Accessories
6-065 **Clip-on Radius R30**

Complementary Products

Clip-on Radius R30

[6-065]

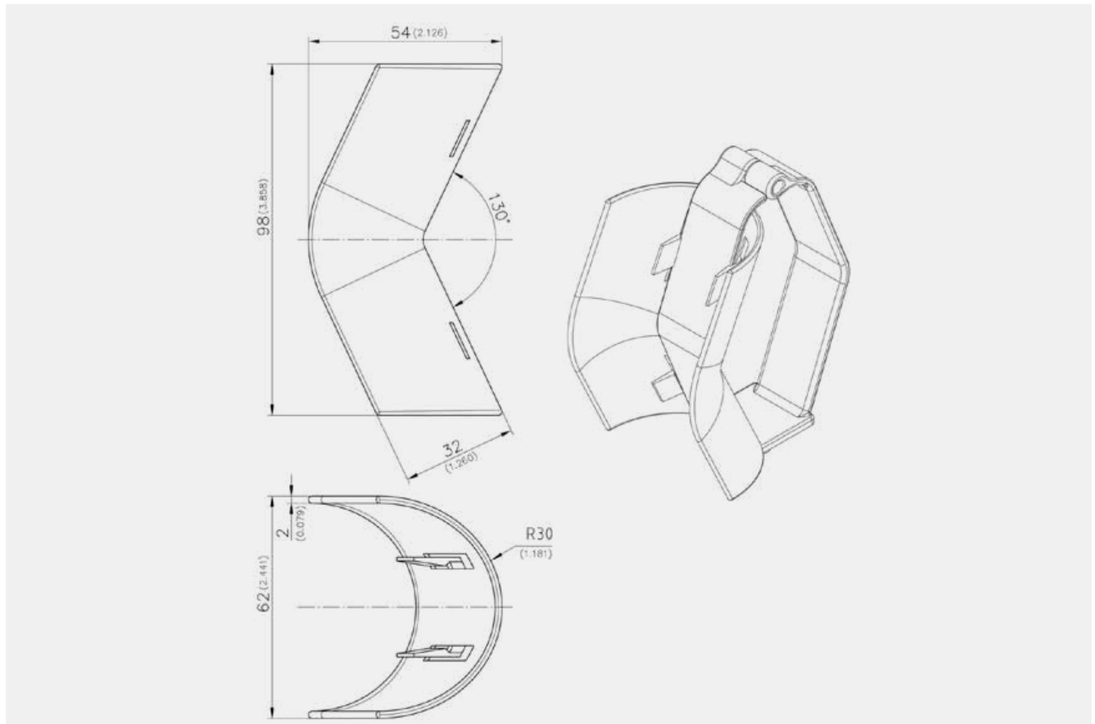


Advantages

- Clip-on radius for cable management device 6-061 and 6-062.
- Tool-less installation.
- Simplifies wiring of horizontal power, network and fiber optic cables in the cabinet.
- Easily guides cables around corners with gentle radius.
- Protects cables from damage and kinks during wiring.

Materials

- **Clip-on radius:** PA, black



Clip-on Radius for Cable Management Device

Part Number	Installation type	Packaging unit
214-0110.51-00000	tool-less	100 pcs.

Accessories
6-062 **Cable Management Device ☐9.5**
6-061 **Cable Management Device ☐12.7**



Universal Rail Key Stainless Steel

See page 757

Complementary Products

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General Terms of Business of DIRAK Dieter Ramsauer Konstruktionselemente GmbH
Issue April 2012

Prefatory remark
All our deliveries and services are subject solely to our General Terms of Business. We will oppose the incorporation of our contract partners' / clients' General Terms of Business.
Provisions which are individually contractually agreed in the context of the contractual relationship shall have priority over the General Terms of Business.

1. Purchase orders and order acceptance
(1) We explicitly reserve the right for ordered or delivered items to deviate from the purchase order where such deviation does not run counter to normal utilisation, in particular with regard to materials and execution.

(2) Product descriptions – especially in our catalogues – do not represent a description of the quality composition, but are merely exemplary presentations.

(3) The client is obliged to inform us in writing, and in good time, if the quality composition of the product, or a special execution or specific material, is of particular significance for the intended utilisation.

(4) Frame-contracts are valid 12 month except not otherwise agreed. After the expiration of the contract DIRAK is in the position to deliver the remaining quantities to the agreed conditions of the contract.

2. Delivery time
(1) The delivery dates stated by us are generally non-binding, and simply designate a period of around 1 to 2 weeks before or after the stated date, unless they have been explicitly confirmed by us in writing in the form of a „binding delivery date". The client is obliged to inform us in good time if non-observance of the projected delivery date could result in a loss. In such cases, we are prepared to agree a „binding" delivery date – where appropriate in return for a suitable surcharge – and to guarantee adherence to that date.

(2) In the event of a delay for which we are responsible, the client is only entitled to enforce further rights if the client has set a subsequent deadline of at least three weeks, and that deadline has elapsed without success.

3. Shipping
(1) If it is necessary to ship the ordered goods, shipping will take place from the supplier's principal place of business at the contract partner's / client's expense and risk. In the absence of specific agreements, we shall be free to select the shipping company and shipping method. Even if carriage-paid delivery has been agreed, the risk will be transferred to the client when the goods are shipped from the supplier's principal place of business.

(2) If shipping is delayed due to reasons for which the client is responsible, the risk will already be transferred to the client at the time of shipping readiness. The client must bear the costs caused by the delay (especially warehousing charges).

(3) The supplier is not obliged to insure the consignment against transport damage, or to arrange for such insurance, unless the supplier has given such an undertaking in writing.

4. Liability for defects
(1) The client is obliged to examine the delivered goods immediately following delivery, and to notify us immediately, and in writing, of any existing defects (at the latest, by the third working day following the delivery). Detectable defects which, contrary to the above obligation, are notified too late will not be entertained by us and will not be covered by the warranty. Notices of defect will only be acknowledged if lodged in writing and addressed to ourselves. Notices of defect lodged with field staff, shippers or other third parties shall be invalid.

(2) The supplier's prior agreement must be obtained if it is necessary to return goods to the supplier in the event of a defect. The supplier need not accept returns which are sent without his prior agreement. In that event, the client will bear the costs of the return shipment.

(3) The provisions governing the delivery period will apply accordingly in the event that, based on a justified notice of defect, a retrospective improvement or replacement delivery is made.

(4) The client shall have the following rights based on the existence of a defect which has been determined as such, and which has been notified by means of a valid notice of defect:
(a) In the event of a defect, the client shall initially be entitled to demand retrospective performance from the supplier. In this regard, the supplier is entitled to choose whether to deliver a replacement object or to remedy the defect.
(b) Furthermore, if a retrospective performance attempt fails, the supplier may make a further retrospective performance attempt, and again may make a choice in this regard. The client shall only be entitled to repudiate the contract or reduce the purchase price once the repeated retrospective performance attempt has failed.

(5) Any further rights are ruled out unless the supplier is guilty of premeditation or gross negligence.

(6) The warranty period is one year from the date of delivery. The client must, under all circumstances, prove that the defect was already present at the time of delivery.

(7) In case of any return shipments DIRAK is allowed to charge handling expenses.

5. Other liability in respect of breach of duty by the supplier
Without prejudice to the provisions governing the warranty or other special arrangements contained in these provisions, the following shall apply in cases where the supplier is in breach of duty:
(1) The client must set the supplier an appropriate retrospective performance deadline to rectify the breach of duty; this deadline must not be under three weeks.

(2) The client may only repudiate the contract and/or demand damage compensation once this retrospective performance deadline has elapsed without success.

(3) The client may only enforce a damage compensation claim in cases of grossly negligent or premeditated breach of duty by the supplier. Damage compensation in place of the service (in the case of non-performance, § 280 III in conjunction with § 281 German Civil Code) and delayrelated damage (§ 280 II in conjunction with § 286 German Civil Code) shall be limited to the negative interest, while damage compensation for a service which has not been performed, or which has not been performed in the manner owed (§ 282 German Civil Code), shall be limited to the amount of the purchase price. Damage compensation in place of the service shall be ruled out in the event that the obligation to render the service is excluded (performance impossibility).

General Terms of Business

(4) In the event of a merely negligent breach of duty by ourselves or those employed in performing an obligation for which we are vicariously liable, our liability shall be limited to contractually typical and predictable damage, unless grossly negligent behaviour is present, or unless there has been an injury to life, limb or health.

(5) Repudiation shall be ruled out if the client is solely or primarily responsible for the circumstances which would entitle him to repudiate the contract, or if the circumstance which would entitle the client to repudiate the contract occurred during the period when the client delayed acceptance.

6. Exclusion of procurement risk and guarantees
The supplier does not assume any procurement risk or any guarantees of any kind unless a specific written agreement has been reached with the client in this regard.

7. Prices
Prices will be invoiced from the supplier's principal place of business in EURO excluding the relevant applicable turnover tax.

8. Payment terms
(1) All the supplier's invoices shall be payable within 30 days of invoice date net cash. The deduction of a discount as well as any other amendment to this term shall require prior written agreement.

(2) In case a buying party is in delay with his payment, we are charging an administration fee of 5/10/20 Euro for each reminder. An additional default interest has to be paid amounting to 12%, from the original due date of the payment.

(3) The exercise of a right of retention or offsetting shall be ruled out unless the counterclaim is undisputed or has been legally determined in a non-appealable manner.

9. Reservation of title
(1) All goods delivered by the supplier shall remain the supplier's property until the purchase price has been paid in full, and until all other claims deriving from the business relationship have been met in full (extended reservation of title). Any disposal by the client, regardless of the manner of such disposal, of the goods in respect of which title is reserved, shall only be permitted in the context of the client's normal business dealings. The goods may not, under any circumstances, be transferred to a third party by means of security.

(2) In the event of the goods being sold in the context of normal business dealings, the purchase price shall take the place of the goods. On accepting the goods, the client already assigns all claims deriving from any sale to the supplier, and the supplier accepts this assignment. The client is entitled to collect these claims as long as he meets his payment obligations to the supplier. In consideration of the extended reservation of title (advance assignment of the relevant purchase price demand), an assignment to third parties, in particular to a credit institution, is prohibited. The supplier is entitled to check the client's sales documentation at any time, and to inform the client's clients of the assignment.

(3) In the event of a levy of execution in respect of goods at the client's premises, the supplier must be informed immediately of the fact that the distrained goods are the goods delivered by the supplier in respect of which title is reserved. This notification must be accompanied by an official copy of the protocol of execution together with a statutory declaration in lieu of oath.

(4) If, for the foreseeable future, the value of the securities pursuant to the above paragraphs of this article exceeds the amount of the outstanding claims thus secured by more than 20%, the client shall be entitled to demand that the supplier release securities to the value of the surplus amount.

(5) In the event of payment arrears, we shall be entitled to demand return of the delivered goods, and to offset them against the arrears at our purchase price or cost price.

(6) Enforcement of the supplier's rights deriving from the reservation of title shall not exempt the client from his contractual obligations. The value of the goods at the time they are taken back will simply be offset against the supplier's existing claims against the client.

10. Supplier's right of repudiation
The supplier shall be entitled to repudiate the contract for the following reasons:
(1) If it should transpire, contrary to the assumption at the time of contract conclusion, that the client is not credit-worthy. In particular, the client shall be deemed to be unworthy of credit if a bill of exchange or cheque is protested, if the client ceases payment or if an unsuccessful attempt at execution is made.

(2) If it should transpire that the client made false statements regarding his creditworthiness.

(3) If the goods in respect of which the supplier has reserved title are disposed of without the supplier's consent and outside the client's normal business dealings, especially by being transferred by way of security or being pledged. The only exceptions are if the supplier gave his consent in writing to such disposal.

11. Place of performance and legal venue
(1) If the client is an entrepreneur or a legal entity under public law or a special fund under public law, the supplier's principal place of business shall be the sole legal venue for all disputes arising directly or indirectly from the contractual relationship. Furthermore, each contracting party shall be entitled to sue the other party at the party's general legal venue.

(2) All agreements between ourselves and our contract partners/ clients must be in writing. This also applies to setting aside the written form requirement.

(3) The law of the Federal Republic of Germany shall apply in all cases, in particular also in cases of cross-border deliveries. The provisions of the UN Purchase Law shall not apply.

12. Partial nullity
Should contractual agreements be or become wholly or partially invalid, or should it transpire that there is a loophole in the contract, the validity of the remaining contractual agreements shall not be affected thereby. In such a case, the contract parties are obliged to replace the invalid contract provision with a valid one, and to close the contract loophole with a provision which most closely approximates to the commercial intention.

Ideas become realities.

For more than 50 years, Dieter Ramsauer has been innovating, designing, and developing new products to create the perfect solutions for his customers' applications. Since the beginning of his career, Mr. Ramsauer's drive and vision have been to solve the unique design challenges of his customers and the industry as a whole – whether it involves making design improvements to an existing product or creating a brand-new product to redefine an industry standard.

The development and production of his modular quarter-turn system was one of his many career milestones before founding the **"Engineering Office Dieter Ramsauer"** in 1973. Many other product innovations followed shortly. He also pioneered the multi-point rod latch system along with the versatile swinghandle which have become industry standards today.

The success of DIRAK GmbH and its continuously growing product range, proves that our vision, to design products today that become industry standards tomorrow, is the guiding principle behind our product development. For example, our DIRAK-SNAP Technology enables quick and easy fastening of components, creating high-strength connections, without the use of any tools.

With passion and joy, we will continue to devote our efforts to developing quality solutions that will serve you reliably.

All (=black) / some (=gray) products on this page have this feature

DIRAK-SNAP-Technology

Tool-less installation

Product line base

Stainless steel / Hygienic design

UL-listed materials

UR / UL certification

Pr14.1: cutout size 14.1 mm /
Pr20.1: cutout size 20.1 mm

Standard cutout size swinghandle

Safety-tested in accordance with DIN EN 1627

Shock- and vibration-tested in accordance with DIN EN 61373

Product suitable for round rod / flat rod

Captive seal: foamed PUR seal / pressed in o-ring

Profile half-cylinder in accordance with DIN 18252

RH / LH application

Door nested, hinge visible / invisible

Door surface-mounted, hinge visible / partly visible / invisible

Individual or adjacent cabinets

Opening angle of hinges from 90° to 360°

Hinge lift-off

Product is grounded if correctly installed

IP protection classes 54, 65, 67, 66, 69K as respectively indicated

Maximum recommended tightening torque for securing nuts of the quarter-turns

Max. recommended tightening torque for the serrated screw

Conforms to RoHS and WEEE directives

Function extension / Accessories and Specific accessories / Assembly options

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Design: jungepartner.de

DIRAK GmbH
Königsfelder Straße 1
58256 Ennepetal
+49 (0) 2333 / 837-0
info@dirak.de

dirak.com
elinebydirak.com