

Fixing Bolts

from Steel resp. Stainless Steel

INOX



55

56

INOX



Fixing bolts without collar are a low cost alternative.

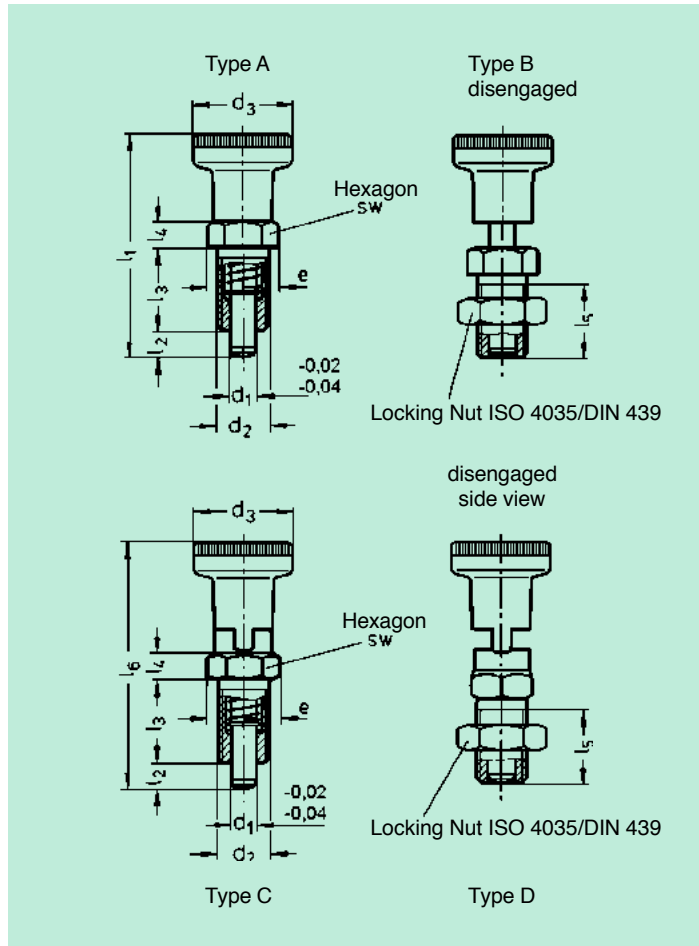
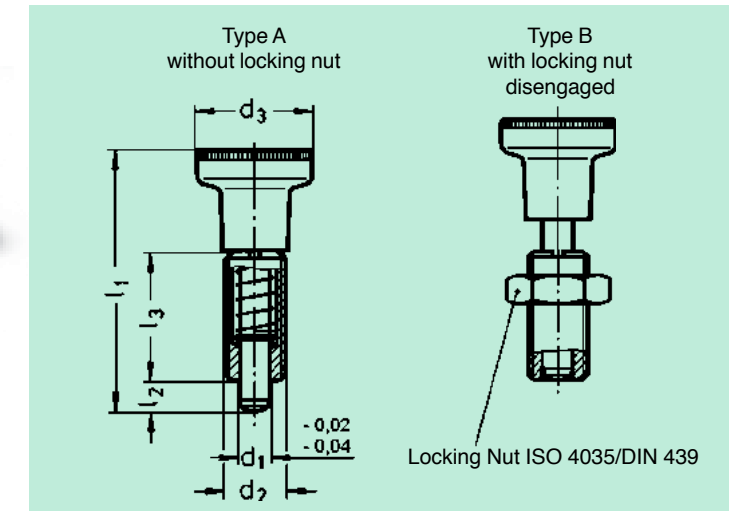
Model Steel: Knob from polyamide black matt. Steel parts stability class 5.8, black oxide finished. Locking bolt hardened and ground.

Model Stainless Steel: Steel parts from stainless steel, material no. 1.4305. Locking bolt ground and nitrated.

A special screwdriver is available. Two slots are provided in the upper end of the body which are accessible with the knob in its retracted position.

Fixing Bolts without Collar - Steel resp. Stainless Steel

Order No. Steel Type A	Order No. Steel Type B	Order No. Stainless Steel Type A	Order No. Stainless Steel Type B	Size d ₁ mm	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ min. mm	l ₃ mm	Order No. Screw Driver
59 05 A	59 05 B	59 05 A E0A	59 05 B E0A	5	M 10 x 1	21	44	5	22	59 05 S
59 06 A	59 06 B	59 06 A E0A	59 06 B E0A	6	M 12 x 1,5	25	53	6	26	59 06 S
59 08 A	59 08 B	59 08 A E0A	59 08 B E0A	8	M 16 x 1,5	31	67	8	34	59 08 S
59 10 A	59 10 B	59 10 A E0A	59 10 B E0A	10	M 20 x 1,5	31	78	10	43	59 10 S



Model Steel: Knob from polyamide black matt. Steel parts stability class 5.8, black oxide finish. Locking bolt hardened and ground.

Model Stainless Steel: Knob from polyamide black matt. Steel parts from stainless steel, Material No. 1.4305. Locking bolt ground and nitrated.

Type A: without Fixing Slot, without Locking Nut
Type B: without Fixing Slot, with Locking Nut
Type C: with Fixing Slot, without Locking Nut
Type D: with Fixing Slot, with Locking Nut

Note for Zimmermann Fixing Bolts:

Fixing bolts are used when a change of resting position by axial loads has to be avoided. Another resting position only can be choiced if bolt has been pressed out manually. If fixing pin has to be locked out longer time and unintentional resting has to be avoided, please use Type C resp. Type D.

Zimmermann Fixing Bolts - Steel

Order No. Type A	Order No. Type B	Order No. Type C	Order No. Type D	Size d ₁ mm	d ₂ mm	d ₃ mm	e mm	l ₁ mm	l ₂ min. mm	l ₃ mm	l ₄ mm	l ₅ mm	l ₆ min. mm	sw
30 05 A	30 05 B	30 05 C	30 05 D	5	M 10 x 1	21	13,8	45	5	17	5	15	51	12
30 06 A	30 06 B	30 06 C	30 06 D	6	M 12 x 1,5	25	16,2	54,5	6	20	6	17	61	14
30 08 A	30 08 B	30 08 C	30 08 D	8	M 16 x 1,5	31	21,9	69	8	26	8	23	75,5	19
30 10 A	30 10 B	30 10 C	30 10 D	10	M 20 x 1,5	31	25,4	80	10	33	10	30	91	22

Zimmermann Fixing Bolts - Stainless Steel

Order No. Type A	Order No. Type B	Order No. Type C	Order No. Type D	Size d ₁ mm	d ₂ mm	d ₃ mm	e mm	l ₁ mm	l ₂ min. mm	l ₃ mm	l ₄ mm	l ₅ mm	l ₆ min. mm	sw
30 05 A E0A	30 05 B E0A	30 05 C E0A	30 05 D E0A	5	M 10 x 1	21	13,8	45	5	17	5	15	51	12
30 06 A E0A	30 06 B E0A	30 06 C E0A	30 06 D E0A	6	M 12 x 1,5	25	16,2	54,5	6	20	6	17	61	14
30 08 A E0A	30 08 B E0A	30 08 C E0A	30 08 D E0A	8	M 16 x 1,5	31	21,9	69	8	26	8	23	75,5	19
30 10 A E0A	30 10 B E0A			10	M 20 x 1,5	31	25,4	80	10	33	10	30		22

Fixing Bolts

without Thread

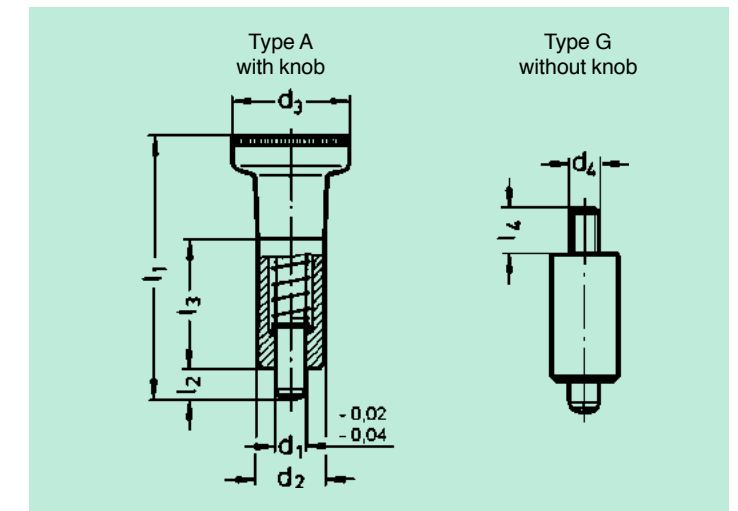


Fixing bolts without thread are for applications where welding or resin bonding is favoured. Type G with threaded bolt end are for applications where a special knob to customers own design is required or for such cases where the spindle is linked directly to an operating mechanism.

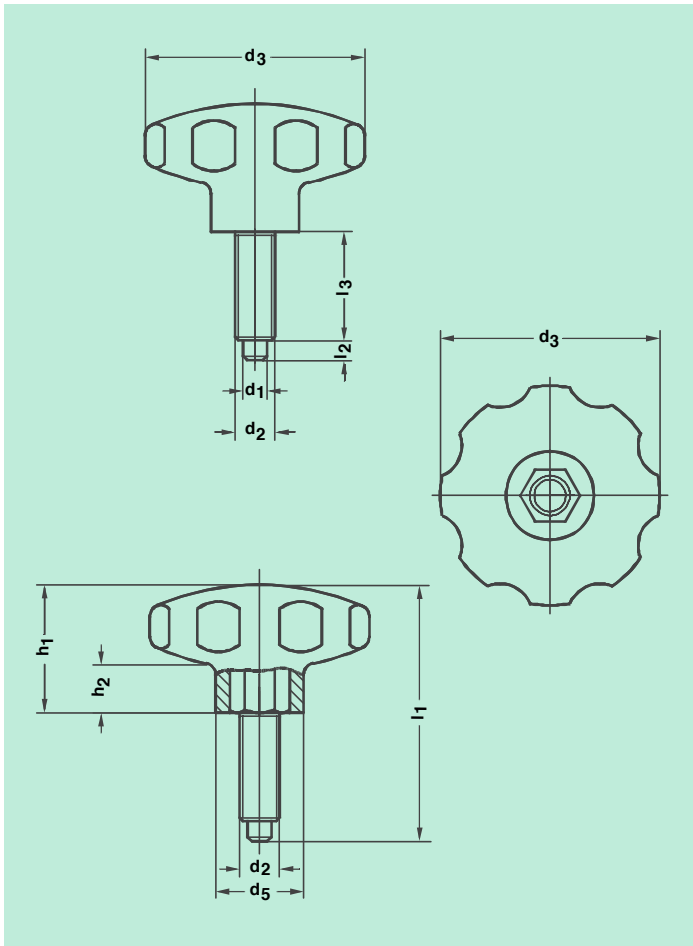
Model: Knob from polyamide black matt. Steel parts black oxide finished, weldable. Locking bolt hardened and ground.

Fixing Bolts without Thread

Order No. Type A	Order No. Type G	Size d ₁ mm	d ₂ h9 mm	d ₃ mm	d ₄ mm	l ₁ mm	l ₂ min. mm	l ₃ mm	l ₄ mm
58 05 A	58 05 G	5	12	21	M 5	44	5	22	6
58 06 A	58 06 G	6	14	25	M 6	53	6	26	10
58 08 A	58 08 G	8	18	31	M 8	67	8	34	12



Fixing and Clamping Knobs



57

Fixing and Clamping Knobs allow for quick and precise positioning, securing and clamping of adjusting elements.

Especially efficient for moving telescopes or similar applications.

Model: Body from polyamide, black.
Screw from steel, zinc-plated.

Indexing Bolts

INOX



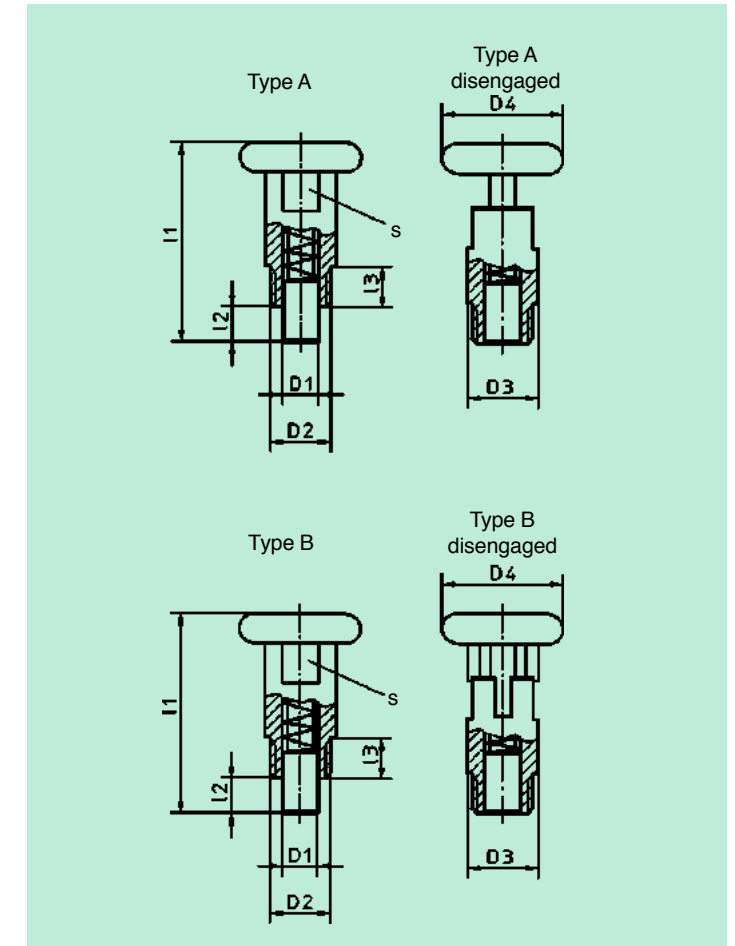
58

Indexing Bolts have the same application as Fixing Bolts. However they are a low-cost alternative to them.

Model: Steel zinc plated, resp. stainless steel.

Type A: without Fixing Slot.

Type B: with Fixing Slot.



Fixing- and Clamping Knobs

Order No.	External Thread d ₂	Size d ₃ mm	d ₁ mm	d ₅ mm	l ₁ mm	l ₂ mm	l ₃ mm	h ₁ mm	h ₂ mm
49 025 08 04	M8 x 1	25	4	12	35	5	10	20	8
49 025 10 05	M10 x 1	25	5	12	38	5	13	20	8
49 025 12 06	M12 x 1,5	25	6	12	43	6	17	20	8
49 035 10 05	M10 x 1	35	5	17	47	5	15	27	10
49 055 10 05	M10 x 1	55	5	25	52	5	15	32	12
49 055 12 06	M12 x 1,5	55	6	25	58	6	20	32	12
49 055 16 08	M16 x 1,5	55	8	25	68	9	27	32	12
49 065 16 08	M16 x 1,5	65	8	30	70	8	22	40	14

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Indexing Bolts - Steel

Order No.	Order No.	Size d ₄ mm	d ₁ mm	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ mm	l ₃ mm	Type A s	Type B s
77 06 A	77 06 B	18	M10x1	6	11,4	31	7	4	10	10
77 07 A	77 07 B	24	M12x1,75	7	14,0	40	7	8	12	12

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Indexing Bolts - Stainless Steel

Order No.	Order No.	Size d ₄ mm	d ₁ mm	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ mm	l ₃ mm	Type A s	Type B s
77 06 A E0A	77 06 B E0A	18	M10x1	6	11,4	31	7	4	10	10
77 07 A E0A	77 07 B E0A	24	M12x1,75	7	14,0	40	7	8	12	12

Spring Plungers

INOX



59

60

Spring Plungers are used for locking and positioning. They also serve for push-on and push-off operations. They are used for example in fixture and tool shops.

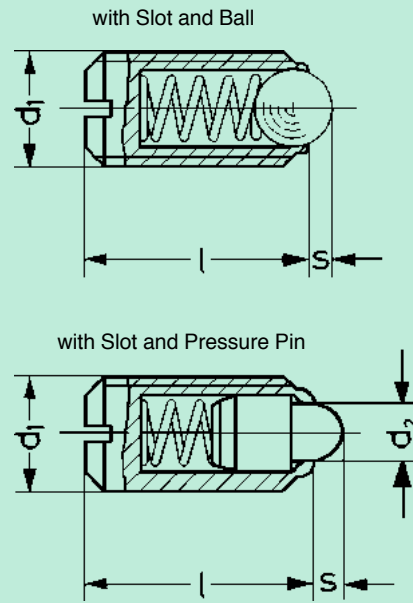
Model Spring Plungers with Slot and Ball:

Type K: Steel, black oxide finished. Ball hardened and blank.

Type KN: Stainless steel, material no. 1.4305, blank. Ball hardened and blank. Heat-resistance: 250^o-350^o C.

Model Spring Plungers with Slot and Pressure Pin:

Type K: Steel, black oxide finished. Pressure pin hardened.



Spring Plungers with Slot and Ball

Order No. Type K	Order No. Type KN	d ₁	Ball Ø mm	l mm	s mm	Initial Pressure approx. N	Final Pressure approx. N	Weight approx. g
40 103	40 203	M 3	1,5	7	0,5	2	3	0,2
40 104	40 204	M 4	2,5	9	0,8	6	12	0,6
40 105	40 205	M 5	3	12	0,9	7	13	0,9
40 106	40 206	M 6	3,5	14	1	9	15	1,5
40 108	40 208	M 8	5	16	1,5	20	35	3,5
40 110	40 210	M 10	6	19	2	25	45	7
40 112	40 212	M 12	8	22	2,5	35	60	10
40 116	40 216	M 16	10	24	3,5	65	110	24
40 120	40 220	M 20	12	30	4,5	90	140	43
40 124	40 224	M 24	15	34	5,5	125	180	70

Spring Plungers with Slot and Pressure Pin

Order No. Type K	d ₁	d ₂ mm	l mm	s mm	Initial Pressure approx. N	Final Pressure approx. N
43 104	M 4	1,8	9	1,5	6	16
43 105	M 5	2,4	12	2	6	17
43 106	M 6	2,7	14	2	7	18
43 108	M 8	4	16	2	20	35
43 110	M 10	4,5	19	2,5	20	45
43 112	M 12	6	22	3,5	25	60
43 116	M 16	8,5	24	4,5	50	95
43 120	M 20	10	30	6,5	80	140

Spring Plungers

INOX



Model with Hexagon Socket and Pressure Pin:

Capable of being assembled from both sides.

Type A: Insert from steel, black oxide finished. Pressure pin of steel, hardened.

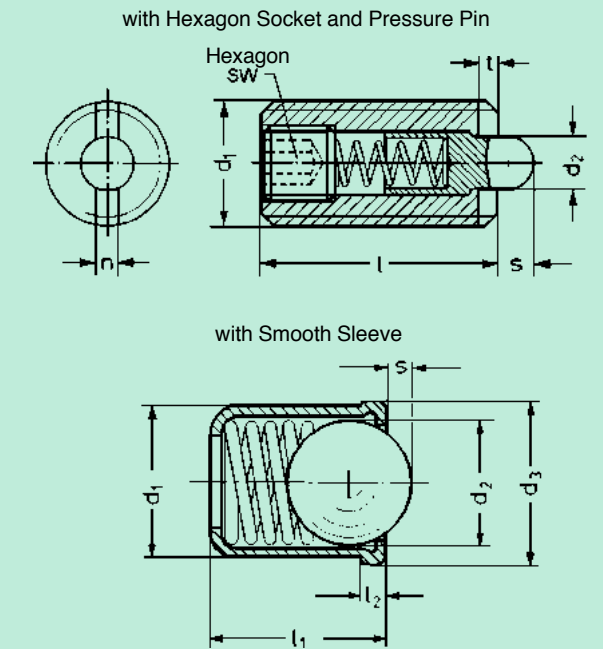
Type D: Insert from steel. Pressure pin from plastic (delrin).

Type AN: Complete from stainless steel available on request.

Model with Smooth Sleeve:

Type K: Sleeve from plastic (delrin), ball from stainless steel.

Type N: Sleeve and ball from stainless steel.

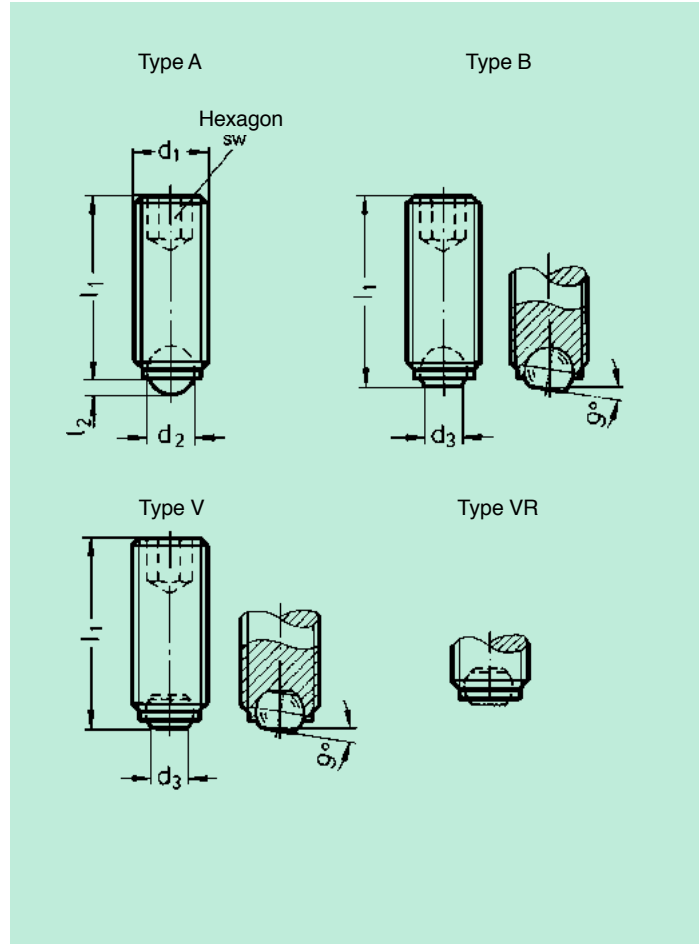


Spring Plungers with Hexagon Socket and Pressure Pin

Order No. Type A	Order No. Type D	d ₁	d ₂ mm	l mm	s mm	n mm	t mm	sw	Initial Pressure approx. N	Final Pressure approx. N	Weight approx. g
41 104	41 204	M 4	1,5	15	1,5	0,6	0,6	1,3	5	15	0,8
41 105	41 205	M 5	2,4	18	2,3	1,2	0,8	1,5	7	20	1,3
41 106	41 206	M 6	2,7	20	2,5	1,3	0,9	2	7	20	2,5
41 108	41 208	M 8	3,5	22	3	1,5	1,4	2,5	9	35	6
41 110	41 210	M 10	4	22	3	1,5	1,4	3	9	35	9
41 112	41 212	M 12	6	28	4	2,7	2	4	15	55	16
41 116	41 216	M 16	7,5	32	5	3,2	2,5	5	45	100	35
41 120		M 20	10	40	7	3,7	3	6	70	140	65
41 124		M 24	12	52	10	3,7	3	8	80	180	120

Spring Plungers with Smooth Sleeve

Order No. Type K	d ₁ mm	Initial Pressure approx. N	Final Pressure approx. N	Weight approx. g	Order No. Type N	d ₁ mm	Initial Pressure approx. N	Final Pressure approx. N	Weight approx. g	d ₂ mm	d ₃ mm	l ₁ mm	l ₂ mm	s mm
42 204	4	3,5	7	0,17	42 104	4	2	5	0,3	3	4,6	5	1	0,9
42 205	5	5	9	0,35	42 105	5	4	7	0,6	4	5,6	6	1	1
42 206	6	8	14	0,68	42 106	6	6	12	1,0	5	6,5	7	1	1,5
42 208	8	9	17	1,45	42 108	8	6	12	2,0	6,5	8,5	9	1	1,8



Ball Clamping Screws



61

Ball clamping screws with solid ball (Type A) are used in applications where a ball point contact is required.

The flat faced movable ball allows the clamping or supporting of non parallel surfaces.

The maximum rotating efficiency (Type V/VR) for the ball is only 90°, thereby safely adjusted, so that always tensioned with the surface.

Model: Steel 10.9 or 12.9, black oxide finished.
Ball hardened, blank.

Type A: solid ball

Type B: flat ball

Type V: flat ball with safety rotary

Type VR: flat ball with safety rotary, knurled

Ball clamping screws with head are available on request.

Ball Clamping Screws

Order No.	Order No.	Order No.	Order No.	Thread	Length of Screw l ₁ (mm)				d ₂	d ₃	l ₂	sw
Type A	Type B	Type V	Type VR	d ₁					mm	mm	mm	
47 04 .. A				M 4	10	16			2,5	0,4	2	
47 05 .. A				M 5	12	20			3	0,6	2,5	
47 06 .. A	47 06 .. B	47 06 .. V	47 06 .. VR	M 6	10	20	25		4	3,2	0,8	3
47 08 .. A	47 08 .. B	47 08 .. V	47 08 .. VR	M 8	10	20	30		5,5	4,5	1,2	4
47 10 .. A	47 10 .. B	47 10 .. V	47 10 .. VR	M 10	12	20	25		7	6	1,7	5
47 12 .. A	47 12 .. B	47 12 .. V	47 12 .. VR	M 12	16	30	40		8,5	7,2	2	6
47 16 .. A	47 16 .. B	47 16 .. V	47 16 .. VR	M 16		20		50	12	10,7	3,3	8

..Please indicate here the desired length, e.g. 010 for l₁ = 10 mm

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Ball Clamping Screws

from Stainless Steel

INOX



62

Ball clamping screws with solid ball (Type AN) are used in applications where a ball point contact is required.

The flat faced movable ball allows the clamping or supporting of non-parallel surfaces.

The maximum rotating efficiency (Type VN/VRN) for the ball is only 90°, thereby safely adjusted, so that always tensioned with the surface.

Model: stainless steel 1.4301/1.4006.

Ball hardened, blank.

Type AN: solid ball

Type BN: flat ball

Type VN: flat ball with safety rotary

Type VRN: flat ball with safety rotary, knurled

Ball clamping screws with head are available on request.

Ball Clamping Screws - Stainless Steel

Order No.	Order No.	Order No.	Order No.	Thread	Length of Screw l ₁ (mm)				d ₂	d ₃	l ₂	sw
Type AN	Type BN	Type VN	Type VRN	d ₁					mm	mm	mm	
47 04 .. AN E0A				M 4	10	16			2,5	0,4	2	
47 05 .. AN E0A				M 5	12	20			3	0,6	2,5	
47 06 .. AN E0A	47 06 .. BN E0A	47 06 .. VN E0A	47 06 .. VRN E0A	M 6	10	20	25		4	3,2	0,8	3
47 08 .. AN E0A	47 08 .. BN E0A	47 08 .. VN E0A	47 08 .. VRN E0A	M 8	10	20	30		5,5	4,5	1,2	4
47 10 .. AN E0A	47 10 .. BN E0A	47 10 .. VN E0A	47 10 .. VRN E0A	M 10	12	20	25		7	6	1,7	5
47 12 .. AN E0A	47 12 .. BN E0A	47 12 .. VN E0A	47 12 .. VRN E0A	M 12	16	30	40		8,5	7,2	2	6
47 16 .. AN E0A	47 16 .. BN E0A	47 16 .. VN E0A	47 16 .. VRN E0A	M 16		20		50	12	10,7	3,3	8

..Please indicate here the desired length, e.g. 010 for l₁ = 10 mm

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Thread Pins

with Pressure Point, DIN 6332

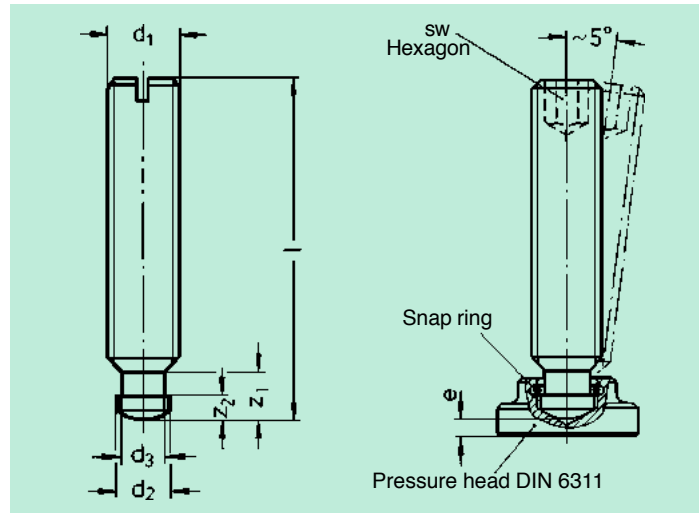
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63

The pressure point of thread pin DIN 6332 is designed to be used with or without the pressure head. The snap ring of the pressure head provides simple and fast connection between screw and pressure head.

Model: Steel, stability class 5.8, black oxide finished. Pressure point hardened.
Type S: with slot
Type SK: with internal hexagon



Thread Pins with Pressure Point DIN 6332

Order No. Type S	Order No. Type SK	d ₁	Length of Screw l (mm)			d ₂ h ₁₁ mm	d ₃ mm	e mm	sw	Z ₁ mm	Z ₂ mm
50 06 ... S	50 06 ... SK	M 6	30	40	50	4,5	4	2,2	3	5,4	2,5
50 08 ... S	50 08 ... SK	M 8	40	50	60	6	5,4	3	4	6,8	3
50 10 ... S	50 10 ... SK	M 10			60	8	7,2	3,6	5	8,2	4,5
50 12 ... S	50 12 ... SK	M 12			60	8	7,2	4,5	6	8,6	4,5
50 16 ... S	50 16 ... SK	M 16			80	12	11	5,3	8	10,6	5
50 20 ... S	50 20 ... SK	M 20			100	12,5	14,4	5,6	10	12,4	5,5

... Please indicate here the desired length of screw, e.g. 030 for l = 30 mm.

Pressure Heads

DIN 6311



Pressure heads can be connected with pressure point screws (Thread Pins DIN 6332) to transmit the applied tension force. It is also suitable for uneven or non-parallel surfaces and prevent any screw turning movements to the workpiece.

Model: Blank turned, insert hardened. Snap ring inlaid.

Pressure Heads DIN 6311

Order No.	used Thread Pin	d ₁ mm	d ₂ H ₁₂ mm	d ₄ mm	h ₁ mm	h ₂ mm	t ₁ mm
53 12 06	M 6	12	4,6	10	7	2,5	4
53 16 08	M 8	16	6,1	12	9	4	5
53 20 10	M 10	20	8,1	15	11	5	6
53 25 12	M 12	25	8,1	18	13	6	7
53 32 16	M 16	32	12,1	22	15	7	7,5
53 40 20	M 20	40	15,6	28	16	9	8

Thread Pins

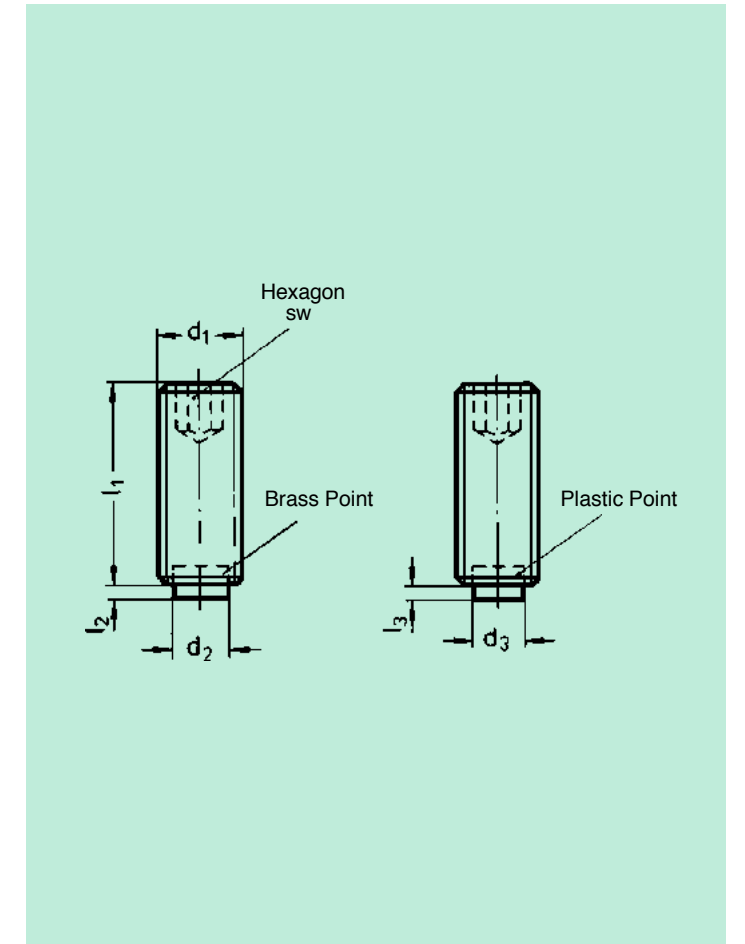
with Brass resp. Plastic Point



64

Through the application of thread pins with pressure point of brass resp. plastic, marks or damages in the tension surface can be prevented. Thread pins are also suitable for combinations with grip elements.

Model: Steel, stability class 5.8, black oxide finished. Pressure point from brass (MS) resp. plastic (KU) Delrin.



Thread Pins with Brass resp. Plastic Point

Order No. Brass Point	Order No. Plastic Point	d ₁	Length of Screw l ₁ (mm)			d ₂ Brass Point	d ₃ Plastic Point	l ₂ Brass Point	l ₃ Plastic Point	sw
51 04 ... E5A	51 04 ... KU	M 4	6	8	10	16	20	2,5	2	2
51 05 ... E5A	51 05 ... KU	M 5	8	10	16	20	25	3	3	2,5
51 06 ... E5A	51 06 ... KU	M 6	10	16	20	32	40	4	3,5	3
51 08 ... E5A	51 08 ... KU	M 8	12	16	20	32	50	6	5	4
51 10 ... E5A	51 10 ... KU	M 10	16	20	32	50	63	8	6,5	5
51 12 ... E5A	51 12 ... KU	M 12	20	32	50	63	10	10	8	6

... Please indicate here the desired length of screw e.g. 025 for l₁ = 25 mm.



Advantages

- Indexing plunger with spring-loaded handle.
- Installed using a simple push into the cutout.
- Enables fixing of drawers.
- Large, ergonomically designed handle for ease of use.

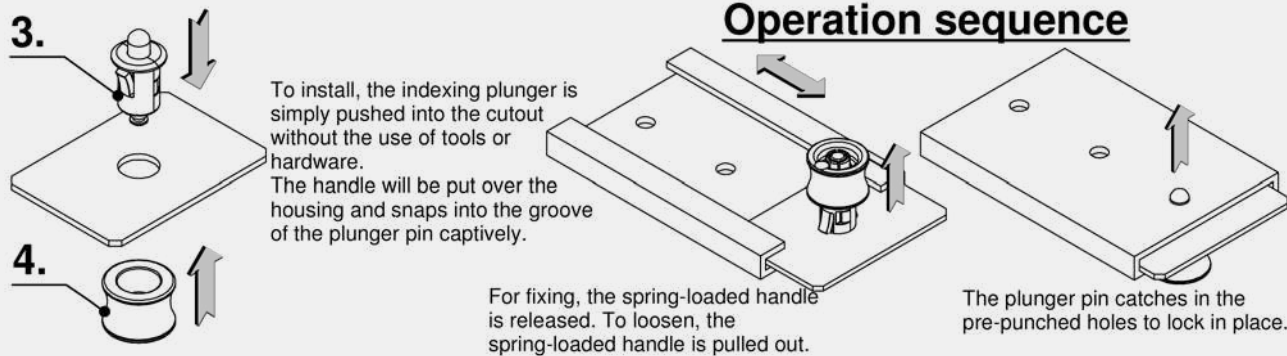
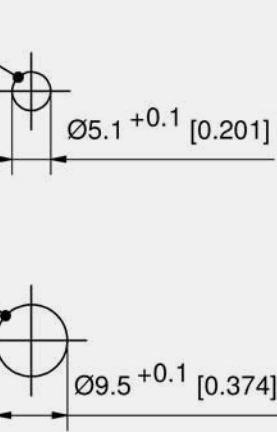
Materials

- Housing:** PA, black
- Handle:** PA, green
- Plunger pin and spring:** steel, zinc plated

Remarks

- cutout plunger pin
 - cutout housing
 - indexing plunger
 - handle
- Also available as concealed hinge, see product system 4-393.

Also available as concealed hinge, see product system 4-393.



Indexing plunger with handle

Part Number	Clamping range (S)	Pin diameter Ø	Cutout pin	Delivery Unit
245-9304.00-00000	1.4 - 1.6 mm	5 mm	$\text{Ø} 5,1 + 0,1\text{mm}$	10 pcs.



all product details on DIRAK.com



Advantages

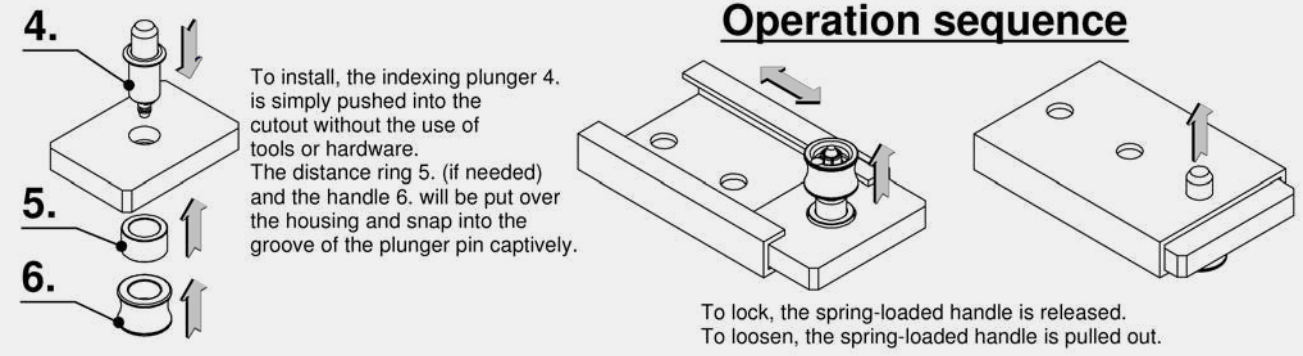
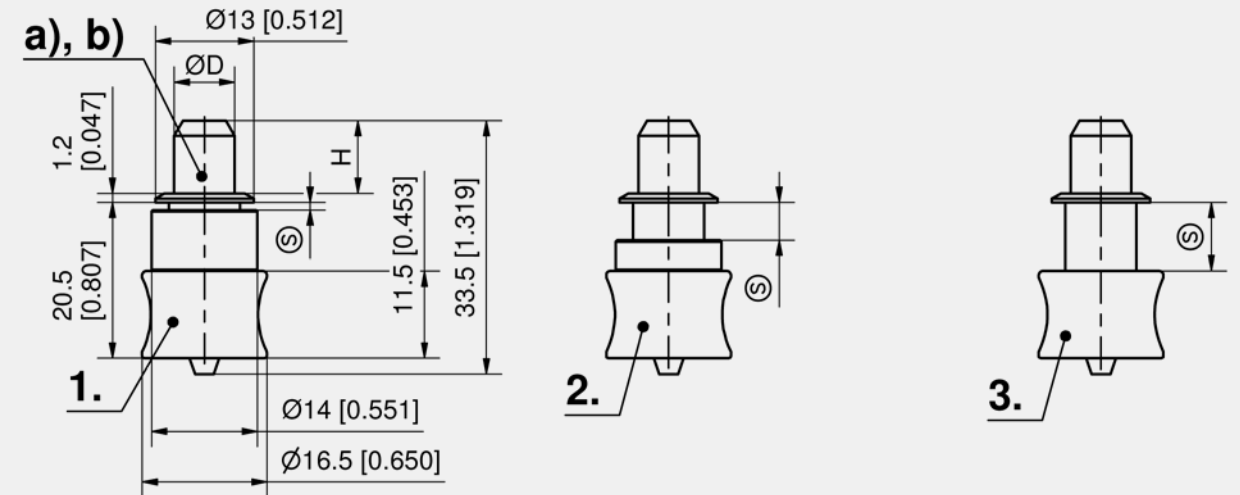
- Indexing plunger with spring-loaded handle.
- Installed using a simple push into the cutout.
- Enables fixing of covers and flaps in defined positions.
- Also usable as a hinge.
- Flexible use for material thicknesses from 1 - 13mm.
- Distance ring 8 and 4mm included in scope of delivery.

Materials

- Indexing plunger:** steel, zinc plated
- Handle:** PA, green
- Distance ring:** PA, black

Remarks

- H depending on clamping range (S) 9.6 - 5.6mm
- assembled product with distance ring 8mm (clamping range (S) 1 - 5mm).
 - assembled product with distance ring 4mm (clamping range (S) 5 - 9mm).
 - assembled product **without** distance ring (clamping range (S) 9 - 13mm).



Indexing plunger with handle

	Part Number	Cutout pin	D	1. clamping range (S) with 8mm distance ring	2. clamping range (S) with 4mm distance ring	3. clamping range (S) without distance ring	H depending on clamping range (S)	Cutout housing	Delivery Unit
a)	245-9305.00-00000	$\text{Ø} 6,1 + 0,1 \text{ mm}$	6 mm	1 - 5 mm	5 - 9 mm	9 - 13 mm	$\text{Ø} 9.6 - 5.6 \text{ mm}$	$\text{Ø} 9.5 + 0.1 \text{ mm}$	20 pcs.
b)	245-9306.00-00000	$\text{Ø} 8,1 + 0,1 \text{ mm}$	8 mm	1 - 5 mm	5 - 9 mm	9 - 13 mm	$\text{Ø} 9.6 - 5.6 \text{ mm}$	$\text{Ø} 9.5 + 0.1 \text{ mm}$	20 pcs.



all product details on DIRAK.com



Advantages

- Indexing plunger with spring-loaded handle and rest position.
- Installed using a simple push into the cutout.
- Enables fixing of covers and flaps in defined positions.
- The spring-loaded handle is fixed by pulling and then turning 90°.
- Avoids linear movement between two parts.
- Also useable as a hinge.
- Flexible use for material thicknesses of 1 - 8mm.

Materials

- **Housing and distance ring:** PA, black
- **Handle / cap:** PA, green

Remarks

Available with various head heights: 2, 3 and 4mm for different gap dimensions.
 1. possible countersunk in the cutout. As a result, the gap between two components and the thickness of the material can be adjusted.

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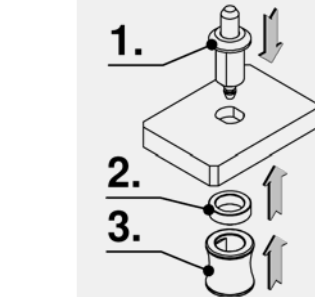
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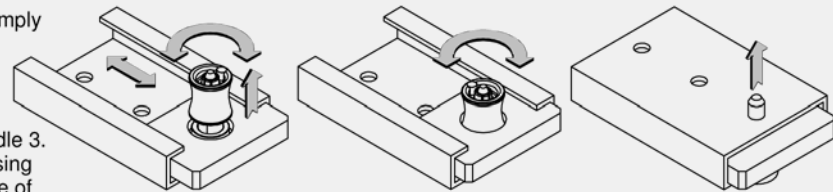
1. possible countersunk in the cutout. As a result, the gap between two components and the thickness of the material can be adjusted.

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To install, the indexing plunger 1. is simply pushed into the cutout without the use of tools or hardware. The distance ring 2. (if needed) and the handle 3. will be put over the housing and snap into the groove of the plunger pin captively.

Operation sequence



For fixing of the indexing plunger the handle has to be pulled and turned by 90°. For loosening the spring-loaded handle has to be turned back.

Indexing plunger with rest position

Part Number	Head height B	at a min. - max. clamping range (S) without distance ring the plunger pin height is Cs	at a min. - max. clamping range (S) without distance ring the plunger pin height is D	total Length A	Cutout housing	Cutout pin	Pin diameter Ø	Delivery Unit
245-9317.00-00020	2 mm	4.8 - 7.8 mm	4.8 - 8.8 mm	33.4 mm	Ø 9.5 x 8.2 mm	Ø 6,1 + 0,1 mm	6 mm	20 pcs.
245-9317.00-00030	3 mm	5.8 - 8.8 mm	5.8 - 9.8 mm	35.4 mm	Ø 9.5 x 8.2 mm	Ø 6,1 + 0,1 mm	6 mm	20 pcs.
245-9317.00-00040	4 mm	4.8 - 7.8 mm	4.8 - 8.8 mm	35.4 mm	Ø 9.5 x 8.2 mm	Ø 6,1 + 0,1 mm	6 mm	20 pcs.



all product details on DIRAK.com



Advantages

- Pin hinge with spring-loaded handle.
- For nested doors.
- Hinge concealed.
- RH / LH application.
- 120° Opening angle.
- 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.
- The installation is tool-less with a simple push into the appropriate cutout.
- Usable also as locking pin.

Materials

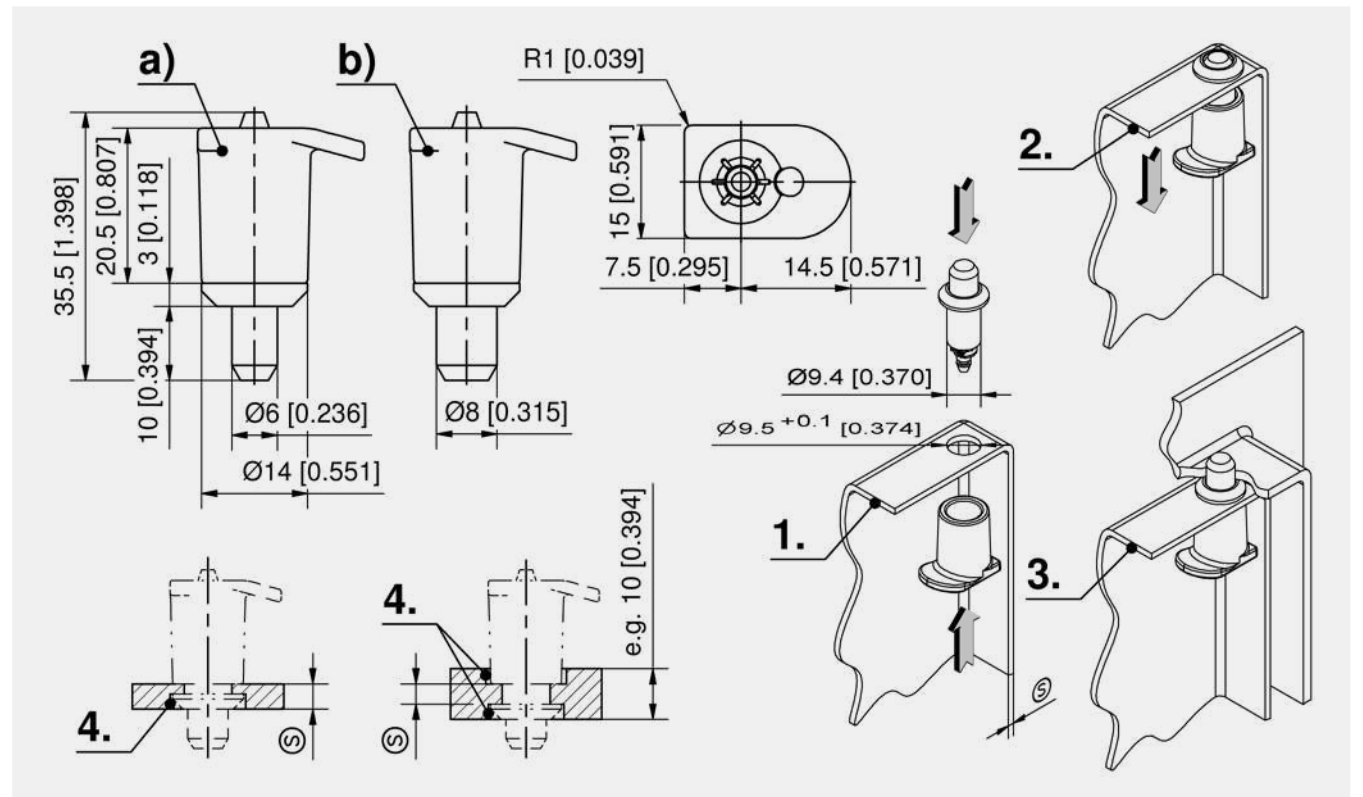
- **Pin:** steel, zinc plated
- **Handle:** PA, green
- **Spacer:** PA, black

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.

On request also available with another handle (see 6-211).

On request also available with another handle (see 6-211).



Pin hinge

	Part Number	Clamping range (S)	Pin diameter Ø	Cutout pin	Pin version	Installation type	Delivery Unit
a)	245-9312.00-00000	0 - 4 mm	6 mm	Ø 6,1 + 0,1 mm	spring-loaded	tool-less	50 pcs.
b)	245-9313.00-00000	0 - 4 mm	8 mm	Ø 8,1 + 0,1 mm	spring-loaded	tool-less	50 pcs.



all product details on DIRAK.com



IP 65

RoHS WEEE



Advantages

- Quick-release fastener for mounting covers, side and rear panels.
- The fastener consists of two basic components.
- IP65 according to DIN EN 60529 (optional).

Materials

- **Stud:** PA black or grey RAL 7032 or Durethan BKV 30 N1 matte black
- **Wing:** PA
- **Cam:** spring steel, zinc plated

RoHS WEEE



Advantages

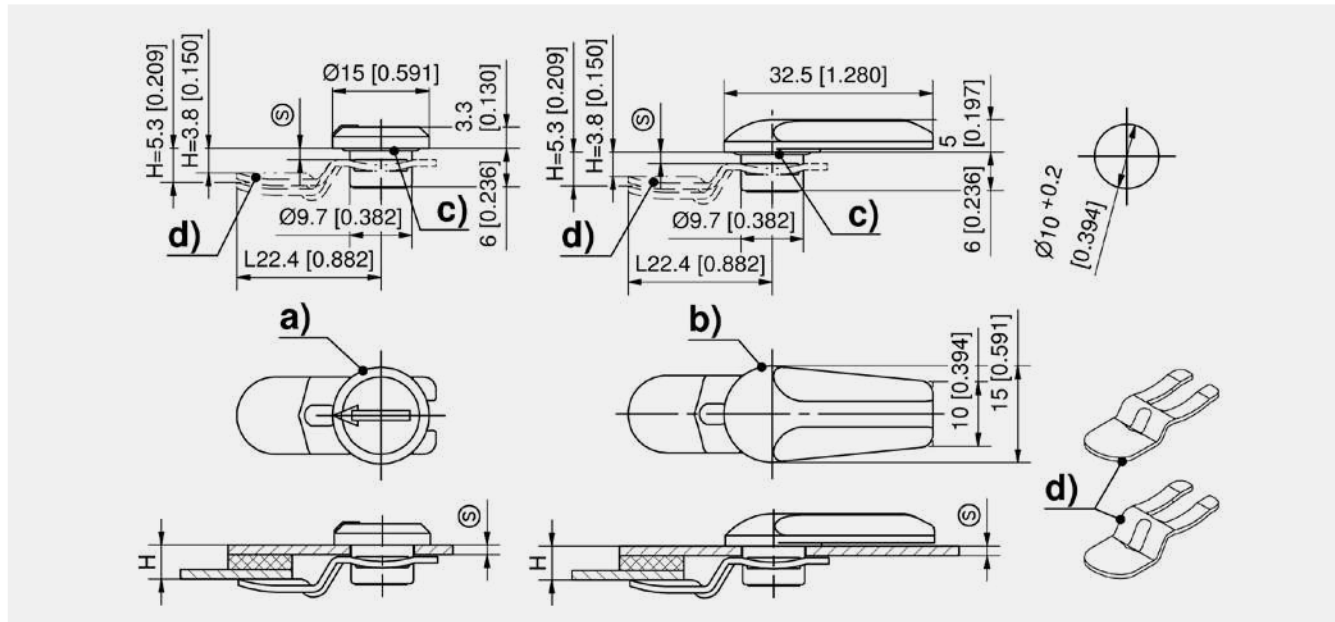
- With slam function.
- Nut fixing.
- Released by pushing.

Materials

- **Snap-lock:** zinc die, chrome plated
- **Nuts:** steel, zinc plated

Remarks

(S) Door-thickness max. 6.5mm
Finger pull only suitable for version a)
Larger lockable version see product system 1-500 or 1-501.
1. locked
2. unlocked



Quick release fastener, stud

	Part Number	Material	Surface	Installation type	Delivery Unit
a)	246-0103.03-00000	PA	black	tool-less	20 pcs.
a)	246-0103.06-07032	PA	grey RAL 7032	tool-less	20 pcs.
a)	246-0103.50-00000	Durethan BKV 30 N1	black matt	tool-less	20 pcs.

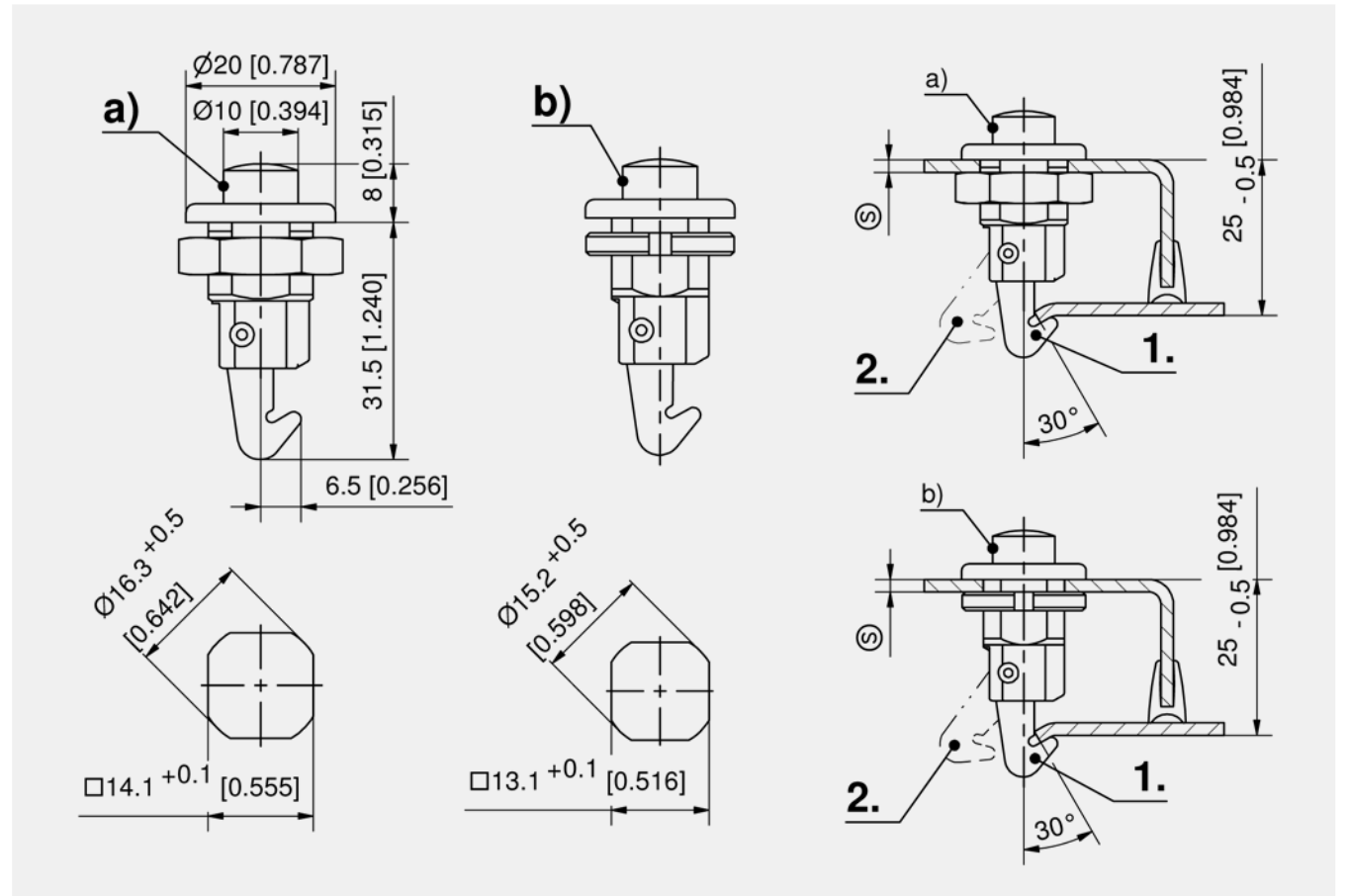
Quick release fastener, wing

	Part Number	Material	Surface	Installation type	Delivery Unit
b)	246-0104.03-00000	PA	black	tool-less	20 pcs.
b)	246-0104.06-07032	PA	grey RAL 7032	tool-less	20 pcs.

Cams

	Part Number	Name	Material	Delivery Unit
d)	246-0202.00-00000	Cam H 3.5mm	spring steel	20 pcs.
d)	246-0204.00-00000	Cam H 5mm	spring steel	20 pcs.

Function extension	
c)	220-0601.00-00000 O-ring 9.1 x 1.6mm



Snap-lock

	Part Number	Fastening type	Cutout	Delivery Unit
a)	252-9001.00-00000	Nut	□ 14.1 mm	10 pcs.
b)	252-9004.00-00000	Groove nut	□ 13.1mm	10 pcs.

Accessories	
a)	148 220-1301.00-00000 Finger pull



RoHS
WEEE



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 and nut:** steel, zinc plated

Remarks

- (S) Door-thickness max. 10mm
1. black coating
 2. washer

RoHS
WEEE

±20

RoHS
WEEE



Advantages

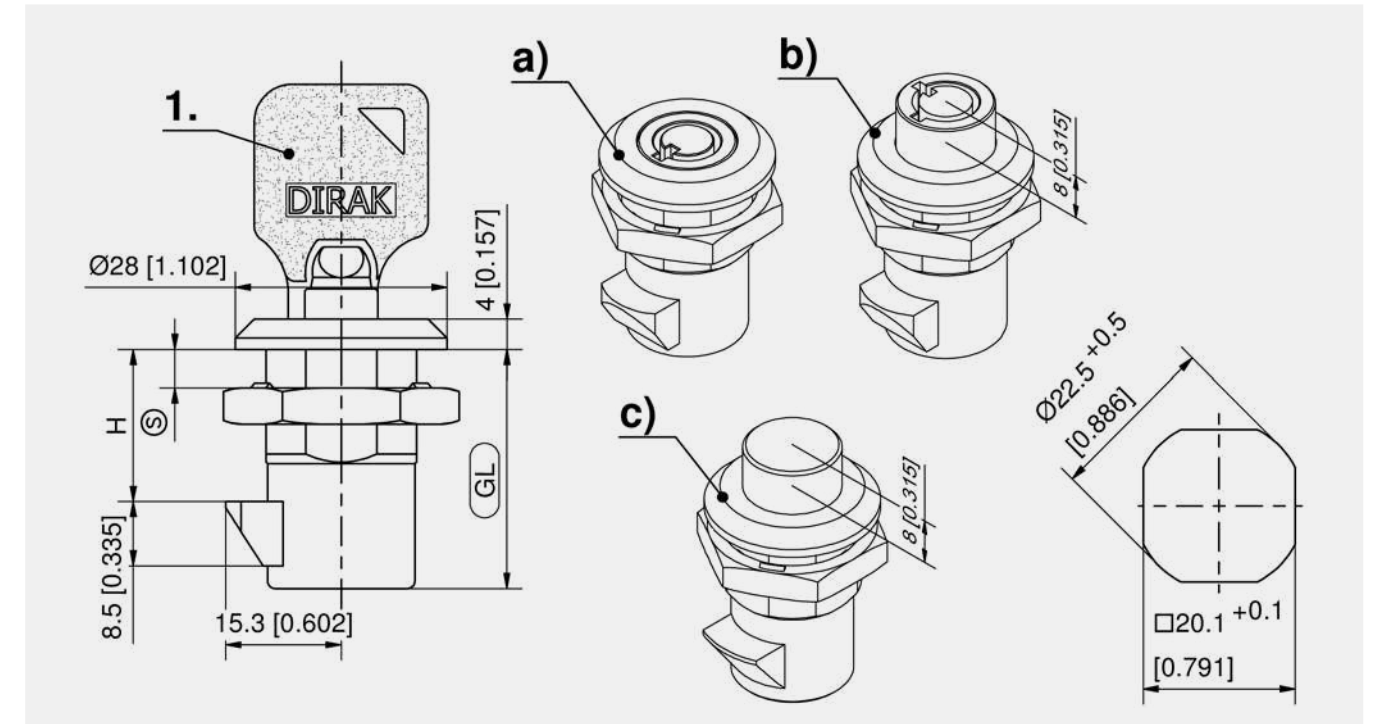
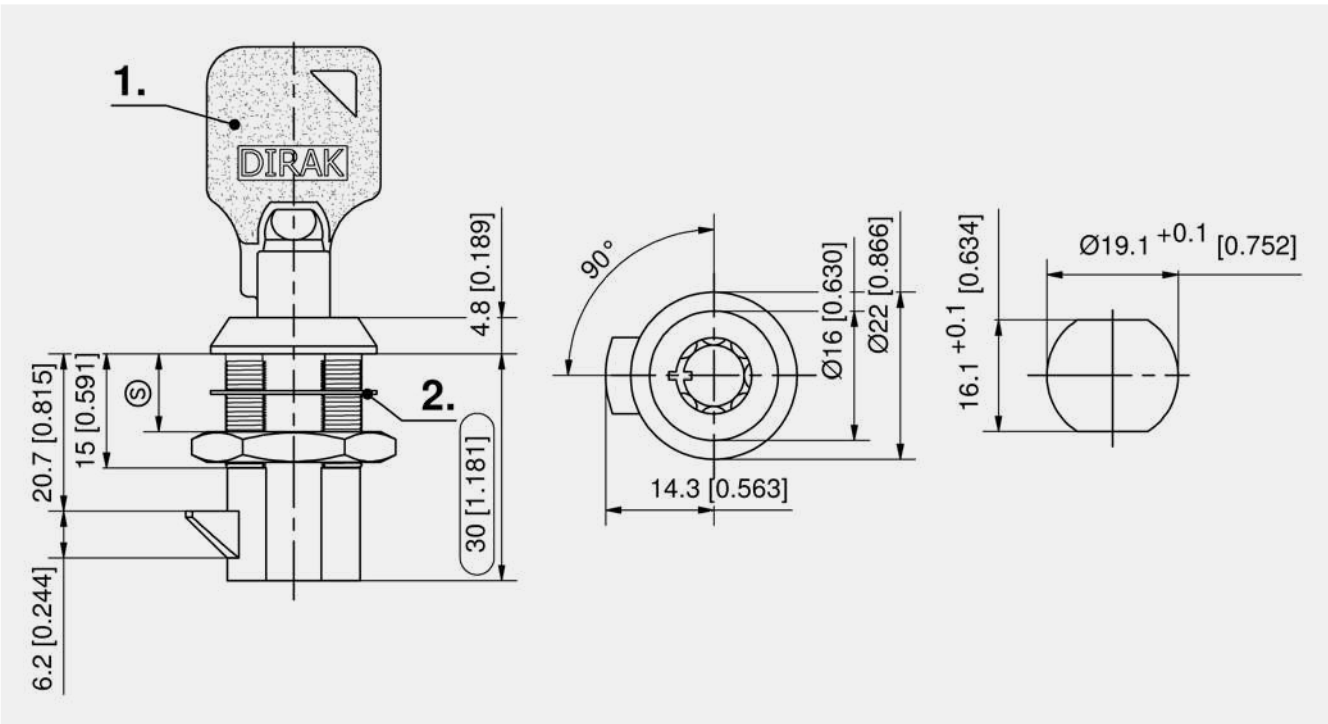
- **Version a):** the spring loaded cam is operated by the key.
- **Version b):** the spring loaded cam is operated by a lockable push-button.
- **Version c):** the spring loaded cam is operated by a push-button.
- All locks supplied with two keys.
- Grounding by single-sided grounding nut.

Materials

- **Snap-Lock:** zinc die, chrome plated
- **Grounding Nut:** zinc die

Remarks

- By using a finger pull the dimensions (S) and H decreases by 2mm!
1. black coating



Snap-lock

Part Number	Latching type	Cutout	Delivery Unit
264-9102.00-00000	keyed alike DIRAK D0205	16.1 x 19.1 mm	1 pc.
264-9101.00-00000	keyed different	16.1 x 19.1 mm	1 pc.

Snap-lock

	Part Number	Latching type	Housing length	H-dimension	Door-thickness (S)	Delivery Unit
a)	264-9001.00-00000	keyed different	31.5 mm	20 mm	10 mm	1 pc.
a)	264-9002.00-00000	keyed alike DIRAK D0205	31.5 mm	20 mm	10 mm	1 pc.
a)	264-9003.00-00000	keyed different	36.5 mm	25 mm	15 mm	1 pc.
a)	264-9004.00-00000	keyed alike DIRAK D0205	36.5 mm	25 mm	15 mm	1 pc.
b)	264-9005.00-00000	keyed different	31.5 mm	20 mm	10 mm	1 pc.
b)	264-9006.00-00000	keyed alike DIRAK D0205	31.5 mm	20 mm	10 mm	1 pc.
b)	264-9007.00-00000	keyed different	36.5 mm	25 mm	15 mm	1 pc.
b)	264-9008.00-00000	keyed alike DIRAK D0205	36.5 mm	25 mm	15 mm	1 pc.
c)	264-9009.00-00000	Push button	31.5 mm	20 mm	10 mm	1 pc.

Accessories	
+	172 200-4703.03-00000 Finger pull for Ø28





Advantages

- The pull latch handle is used by the 19" rack industry for locking insertions.
- The completely pre-assembled unit is fastened by a countersunk screw M4.
- When inserting the pull latch, the free running slam hook slides into the cutout of the door to keep the latch from rotating. (3.)
- Pulling on the handle will unlock the drawer, enabling it to be pulled out. (4.)
- RH / LH application.

Materials

- **Housing and handle:** zinc die, matte chrome plated
- **Spring for insert:** spring steel
- **Hook:** sintered steel, zinc plated

Remarks

- (S) Door-thickness max. 5mm
1. cutout handle
 2. alternative cutouts for locking hole
- The countersunk screw is not included.



Advantages

- The pull latch handle with DIRAK-SNAP-Technology is used by the 19" rack industry.
- Tool-less installation.
- When inserting the pull latch, the free running slam hook slides into the cutout of the door to keep the latch from rotating.
- By tilting the handle, the hook is removed from the cutout, enabling the drawer to be pulled out by the handle. The asymmetrical design allows the handle to tilt when it is pulled.
- RH / LH application.

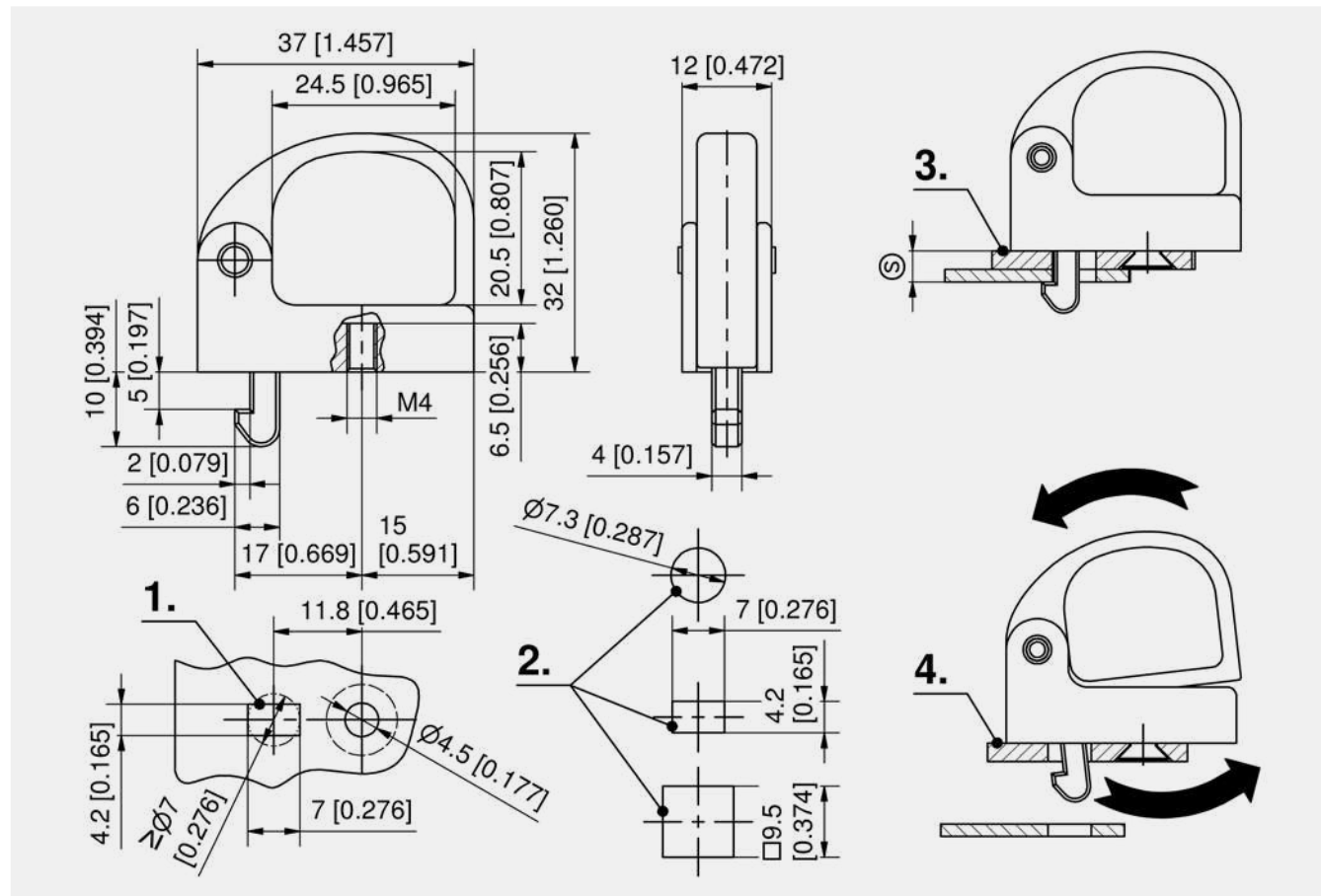
Materials

- **Housing and handle:** zinc die, matte chrome plated
- **Spring for insert:** spring steel
- **Snap wedges and hook:** sintered steel, zinc plated

Remarks

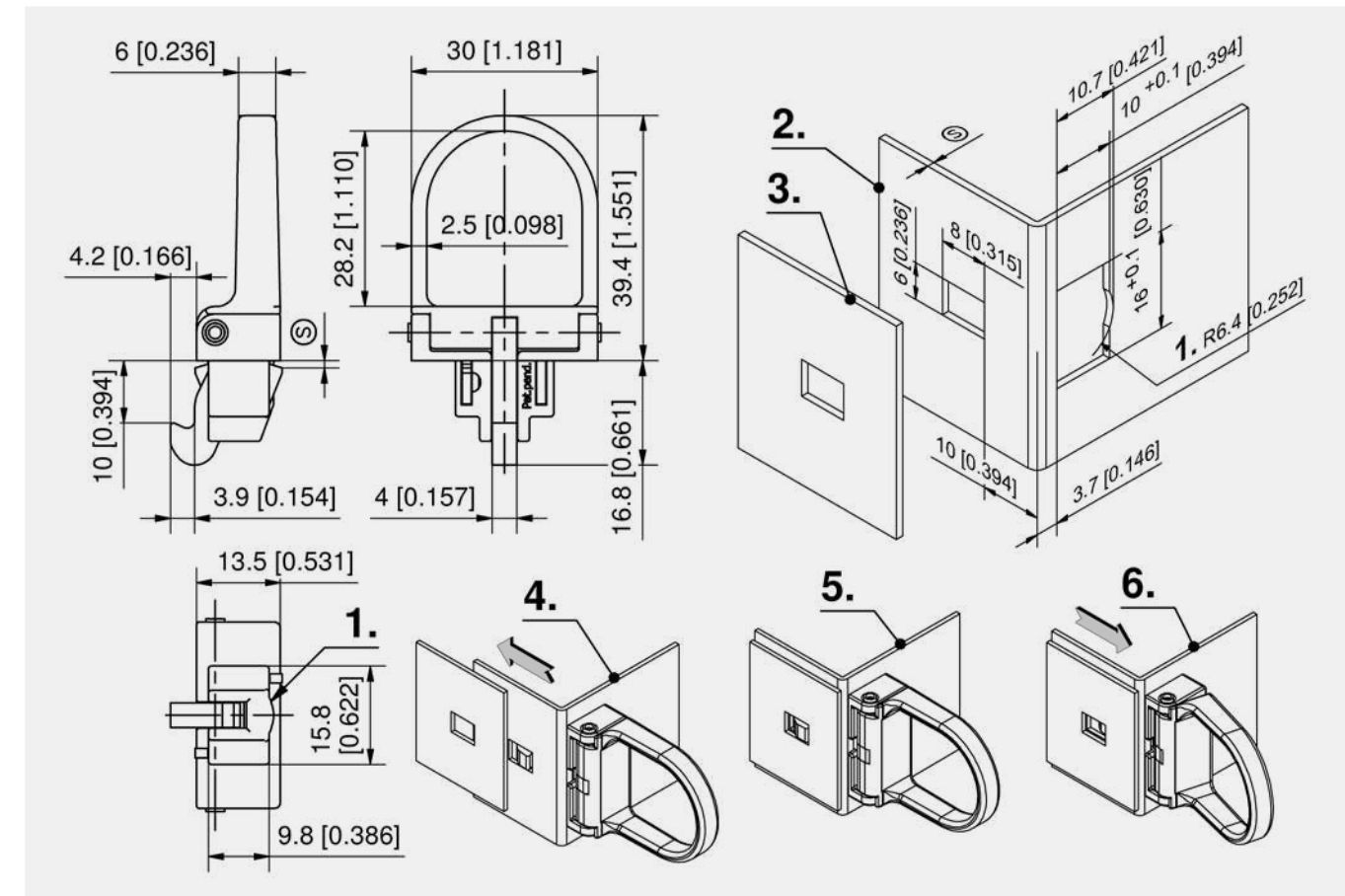
- This cutout guarantees a unique and constant fitting.
1. bulge for correct positional installation
 2. cutout door
 3. cutout frame
 4. pushing in
 5. locked
 6. unlocked

Latches



Pull latch handle

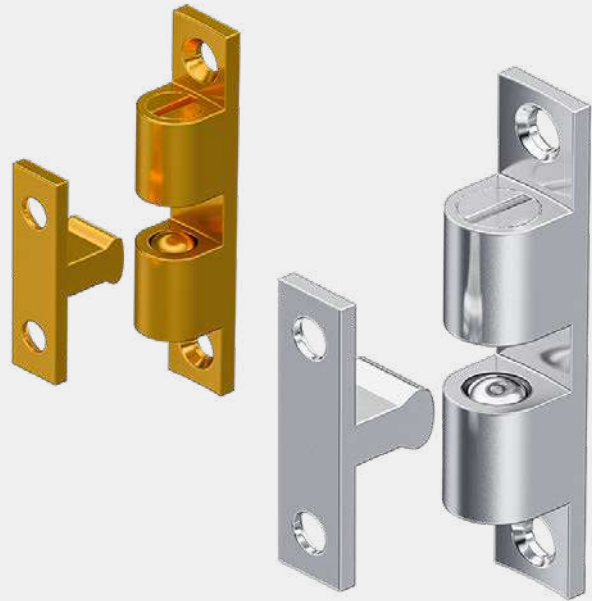
Part Number	Installation type	Delivery Unit
280-9101.00-00000	screw-on	1 pc.



Pull latch handle

Part Number	Clamping range (S)	Installation type	Delivery Unit
480-9002.00-00810	0.8 - 1.0 mm	tool-less	1 pc.
480-9002.00-01113	1.1 - 1.3 mm	tool-less	1 pc.
480-9002.00-01416	1.4 - 1.6 mm	tool-less	1 pc.





Advantages

- Dual ball catch, screw-on.

Materials

- **Ball catch and counterpart:** brass or brass, chrome plated
- **Springs and balls:** stainless steel

Remarks

1. alternative turned 90°

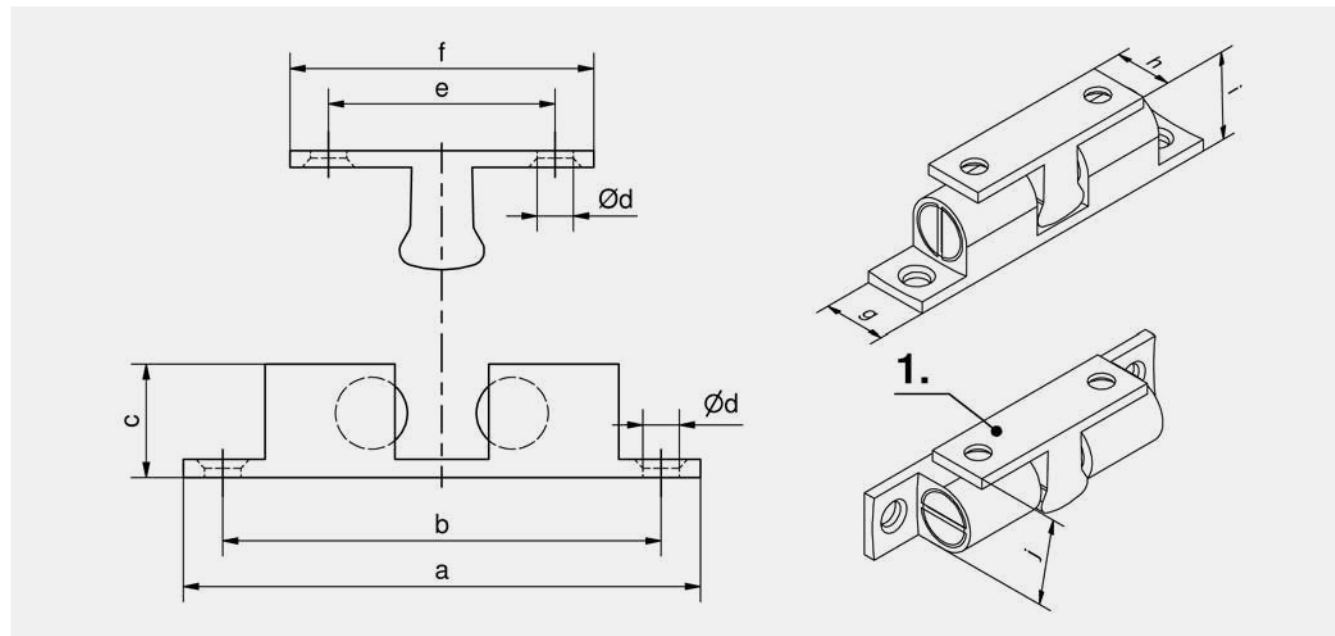


Advantages

- Robust, screw-on slam lock.

Materials

- **Slam lock:** steel, zinc plated

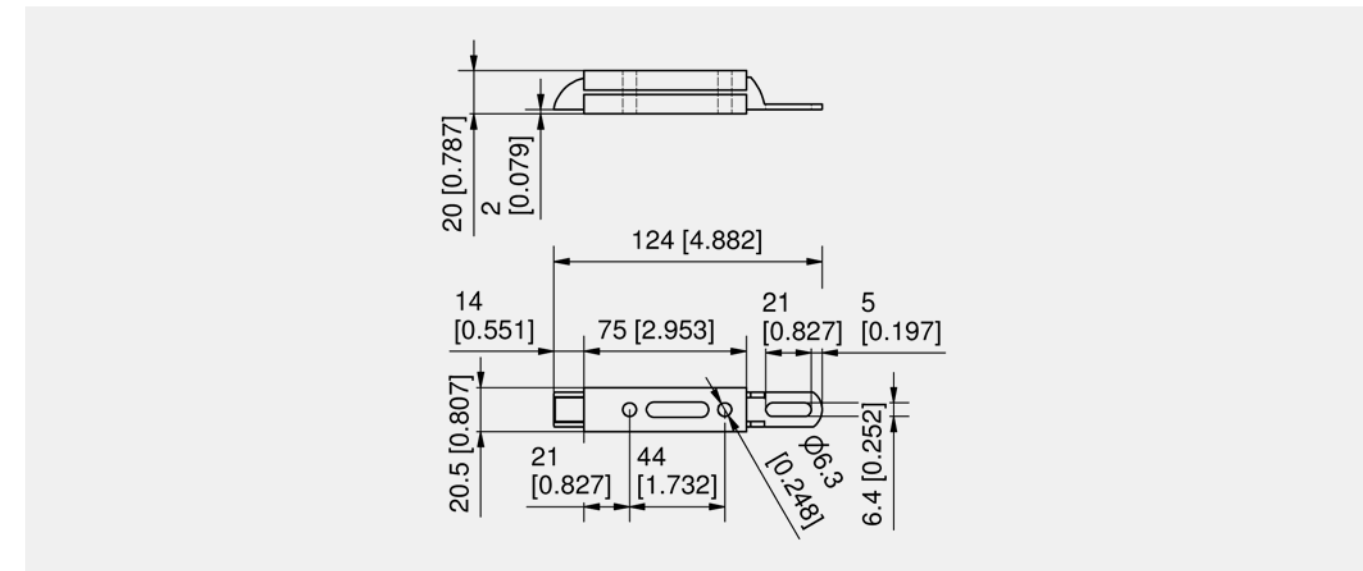


Ball catch + counter part, brass

Part Number	a	b	c	d	e	f	g	h	i	j	Delivery Unit
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	10 pcs.
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	10 pcs.
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	10 pcs.
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	10 pcs.

Ball catch + counterpart, brass, chrome plated

Part Number	a	b	c	d	e	f	g	h	i	j	Delivery Unit
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	10 pcs.
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	10 pcs.
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	10 pcs.
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	10 pcs.



Slam lock

Part Number	Installation type	Delivery Unit
229-9001.00-00000	screw-on	10 pcs.





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.
- 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 safe-guard.
- Also available without locking device (only flush-mounted T-handle).

Materials

- Housing and T-handle:** zinc die, chrome plated
- b)
- Insert:** AISI 303
- c)
- Insert:** zinc die, chrome plated

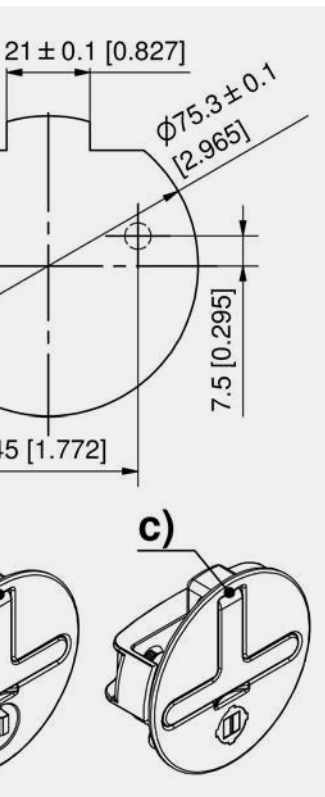
Remarks

The door-thickness (S) amounts to max. 6mm with the screw provided M6x16.

- fastening bracket
- spring-loaded link
- locking device for T-handle

Attention:

H-dimension L=35 cam ≥14mm
H-dimension 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	Delivery Unit
a)	213-9401.00-00000	without	without Fixing bracket	screw-on	1 pc.
b)	213-9403.00-00000	Conical square 9mm	without Fixing bracket and without spring-loaded link	screw-on	1 pc.
c)	213-9402.00-00000	Square 8mm	with fixing bracket and cylinder head screws M6x16	screw-on	1 pc.

Accessories	
154, 292	1-102 Cams L35/45 Steel
769	204-0103.00-00000 Wrenches
766	204-0701.07-07500 Universal key for Inserts
770	204-0702.80-00000 Rail Keys



all product details on DIRAK.com

6-1381



Advantages

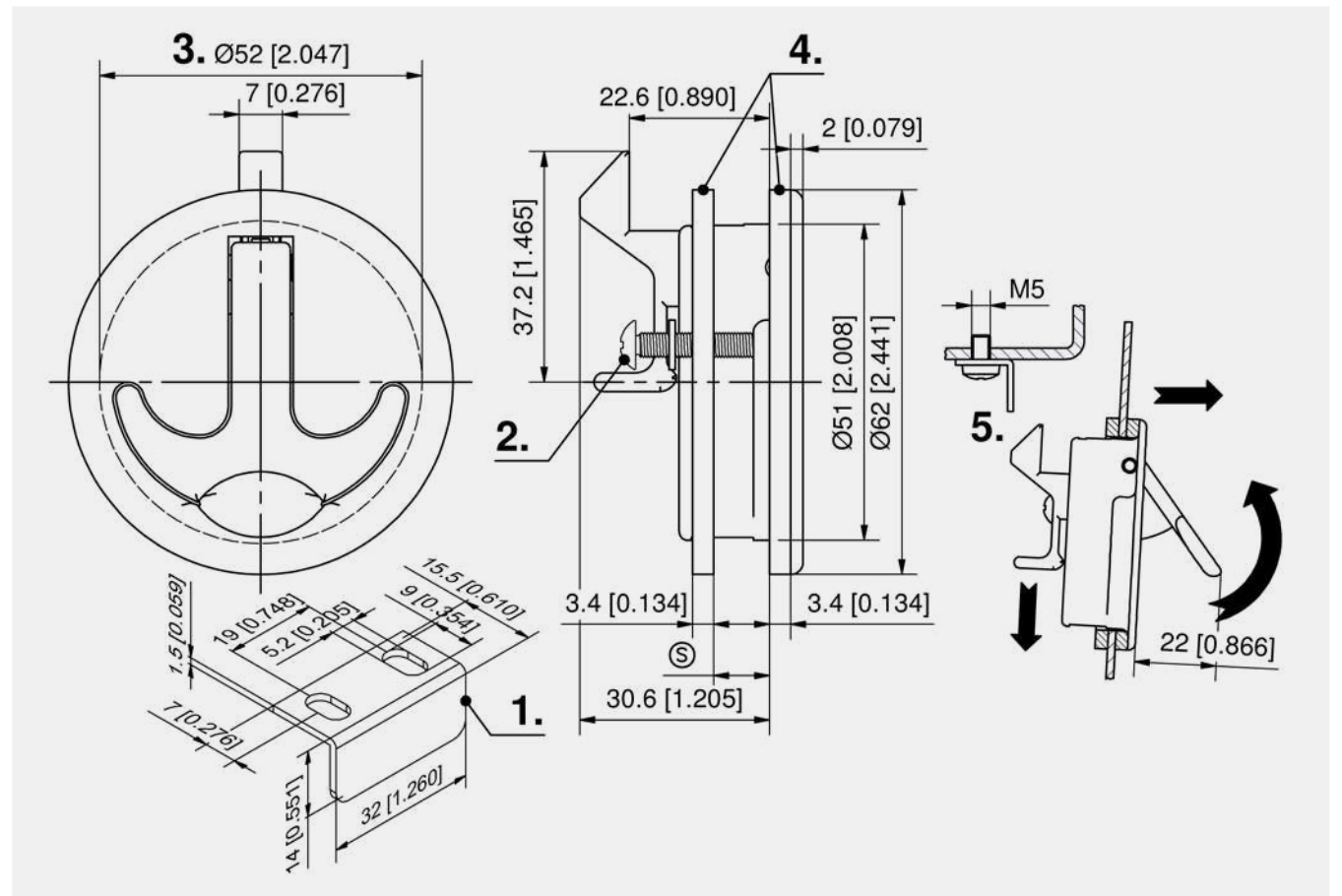
- Flush slam latch with free stroke.
- The recessed grip below the lever allows an easy access for operating the lever.
- For unlocking (5.) the lever has to be opened about 45°, the spring loaded lever automatically returns to the flush position.
- By the finger-pull on the latch, unlocking from inside is possible.

Materials

- Housing, handle and latch:** AISI 316, surface polished
- Screw, cam angle, pin and spring:** stainless steel
- Spacer:** nylon, black

Remarks

- (S) Door-thickness max. 15mm.
- By omitting the front packing plate the height dimension (S) can be increased by 3.4mm.
- 1. cam angle, included
- 2. fastening screws 8-32 UNC x 22, for thinner door-thicknesses (S) please cut the screw accordingly.
- 3. cutout Ø52mm
- 4. base plates



Slam latch

Part Number	Cutout	Installation type	Delivery Unit
282-9601.00-00000	Ø52	screw-on	1 pc.



all product details on DIRAK.com

7-330



Advantages

- Pullhandle with slam-hook with DIRAK-SNAP-Technology.
- RH / LH application.
- A non-locked handle has a detent in the door-dish.

Materials

- **Dish:** PA, black
- **Handle:** zinc die, black
- **Bolt/hook:** zinc die, untreated
- **Pin:** steel, zinc plated
- **Snap wedges and locking cylinder:** PA

Remarks

Installation: hook lower part into the lower cutout. Snap top part into the upper cutout with a simple push.

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)



Advantages

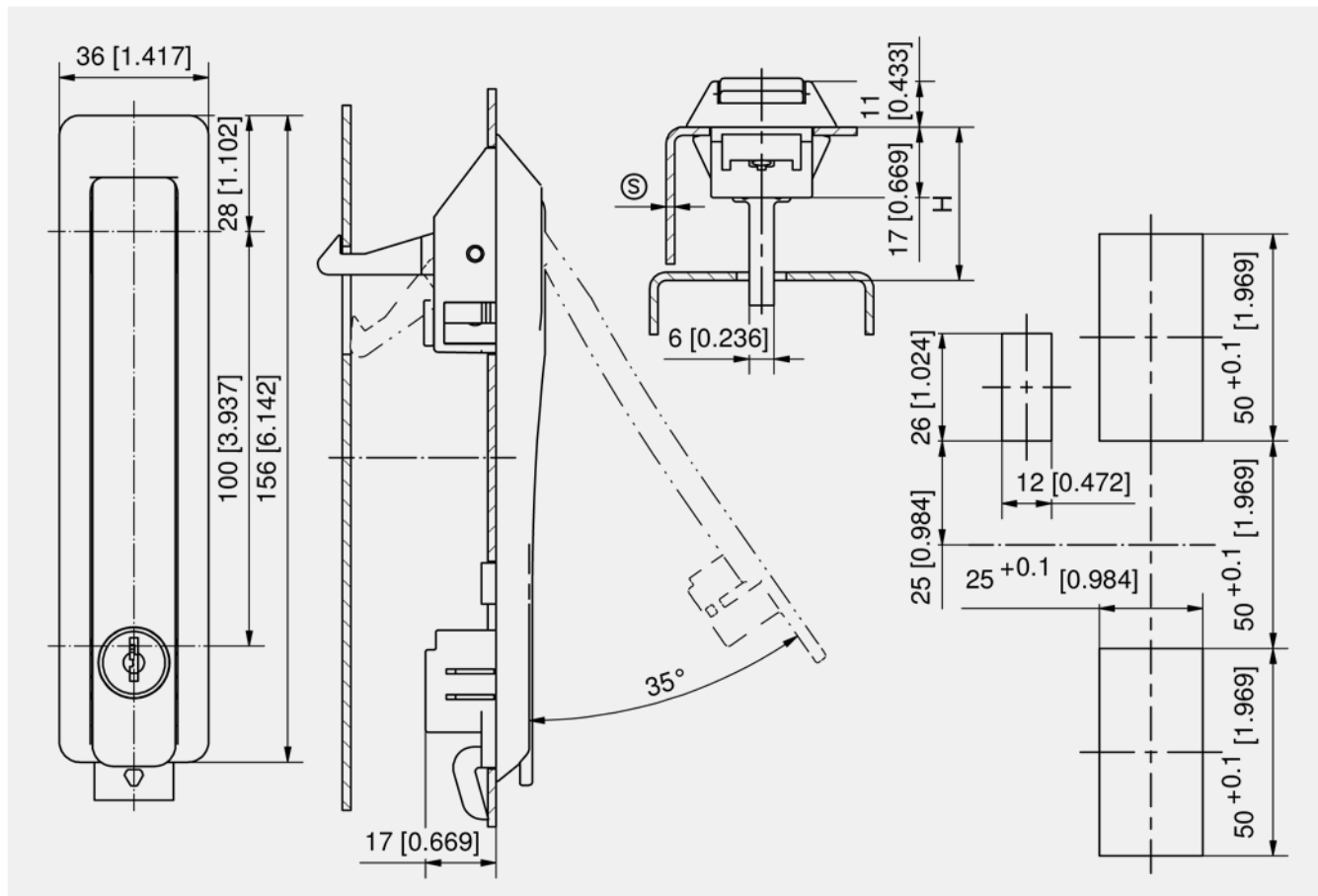
- Clip-in slam latch for doors and panels.
- Low profile.
- Tool-less installation.
- Weight: without cylinder: 33g with cylinder: 46g.

Materials

- **Slam latch:** PA
- **Springs:** spring steel
- **Cylinder:** zinc die
- **Dustcap:** stainless steel, black coated

Remarks

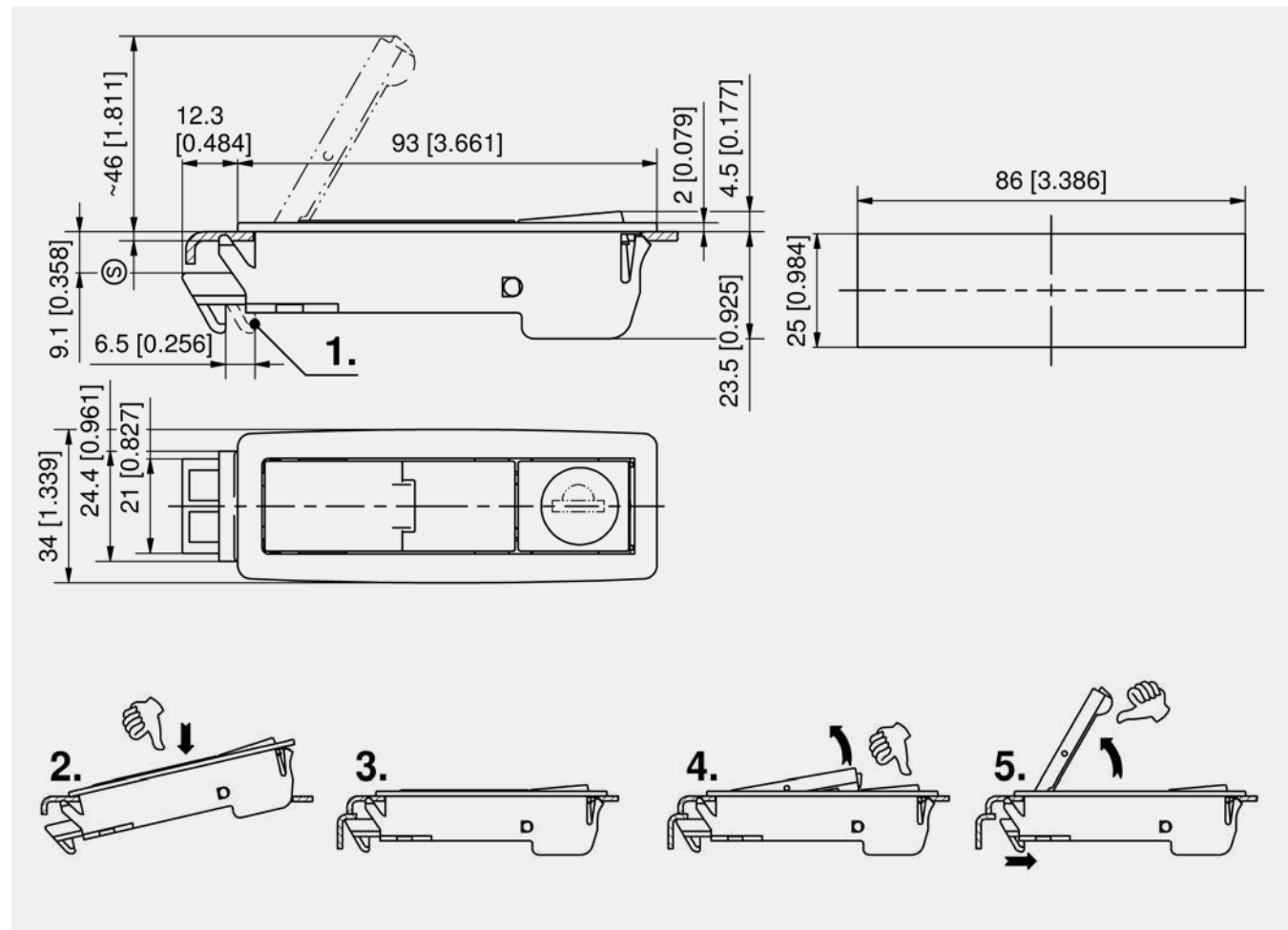
- Clamping range (S) 1.5 - 2mm
1. stroke of the latch 6.5mm.
 2. slide the latch end into the sheet metal.
 3. push the housing into its final position.
- Two-step opening process:
4. pressing the trigger button releases the lever and it jumps up. The slam latch stays closed.
 5. lifting the lever opens the latch.



Pullhandle with slam-hook

Part Number	Clamping range (S)	Latching type	H	Installation type	Delivery Unit
407-9402.00-37015	1.2 - 1.7 mm	keyed alike DIRAK 1333	37 mm	tool-less	1 pc.
407-9401.00-37015	1.2 - 1.7 mm	keyed different	37 mm	tool-less	1 pc.
407-9402.00-37020	1.7 - 2.2 mm	keyed alike DIRAK 1333	37 mm	tool-less	1 pc.
407-9401.00-37020	1.7 - 2.2 mm	keyed different	37 mm	tool-less	1 pc.

Accessories	
764 292-0301.15-00000	Tool for uninstallation
764 292-0306.80-02530	Tool for uninstallation



Slam latch

Part Number	Latching type	Installation type	Delivery Unit
282-9501.00-00000		tool-less	1 pc.
282-9502.00-00000	keyed alike DIRAK 1333	tool-less	1 pc.
282-9503.00-00000	keyed different	tool-less	1 pc.





Advantages

- Slam latch consists of two parts (door- and frame-part) for aluminium profiles.
- Due to oblong holes, different profile widths can also be used.
- Gently pulling the handle will disengage the slam-bolt from the frame-part.
- A gentle push will latch the door.
- Version with cylinder is supplied with 2 keys.

Materials

- Handle, door- and frame-part:** zinc die, chrome plated or black
- Bolt:** zinc die, untreated
- Slot nut:** steel, zinc plated

Remarks

- 4 slot nuts M6 are included in scope of delivery
- open
- opened
- close



Advantages

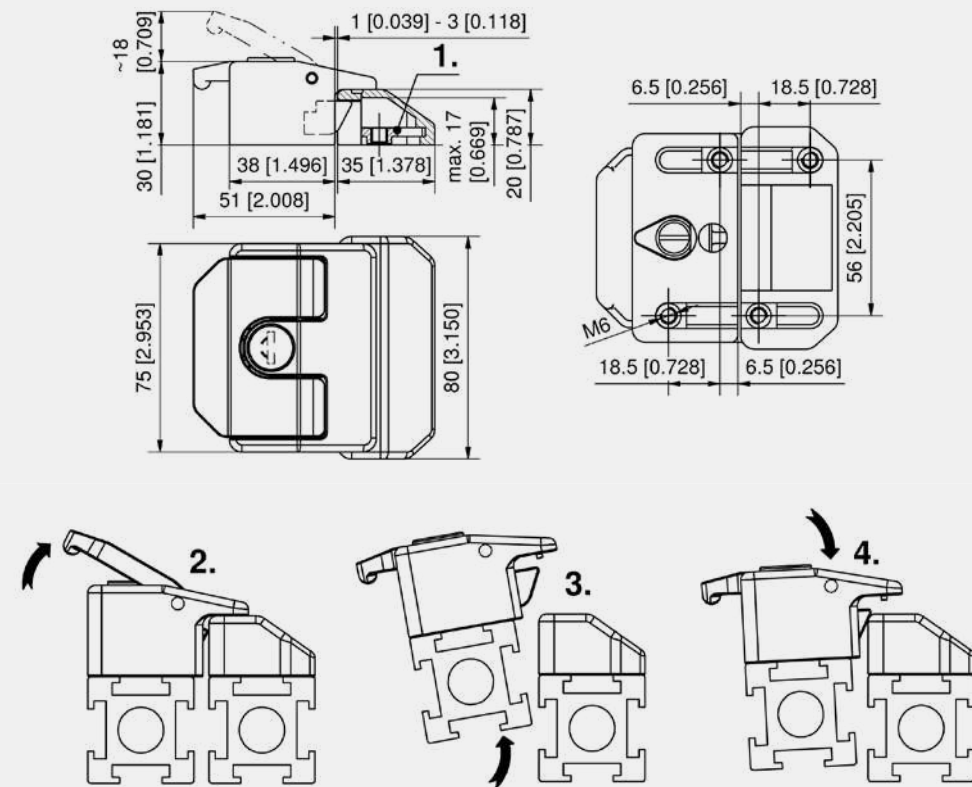
- Slam latch consists of two parts (bolt and locking element) for aluminium profiles.
- Bolt housing with integrated stop.
- Opening by pushing the grip element.
- Finger-tip grip allows easy opening.
- Self-closing of the door.
- Cannot be opened from the inside.
- Noise reduced.
- Version with cylinder is supplied with 2 keys.

Materials

- Bold and locking element:** zinc die, black
- Slot nuts:** steel, zinc plated
- Cylinder barrel:** PA, black

Remarks

- 4 slot nuts are included in scope of delivery.

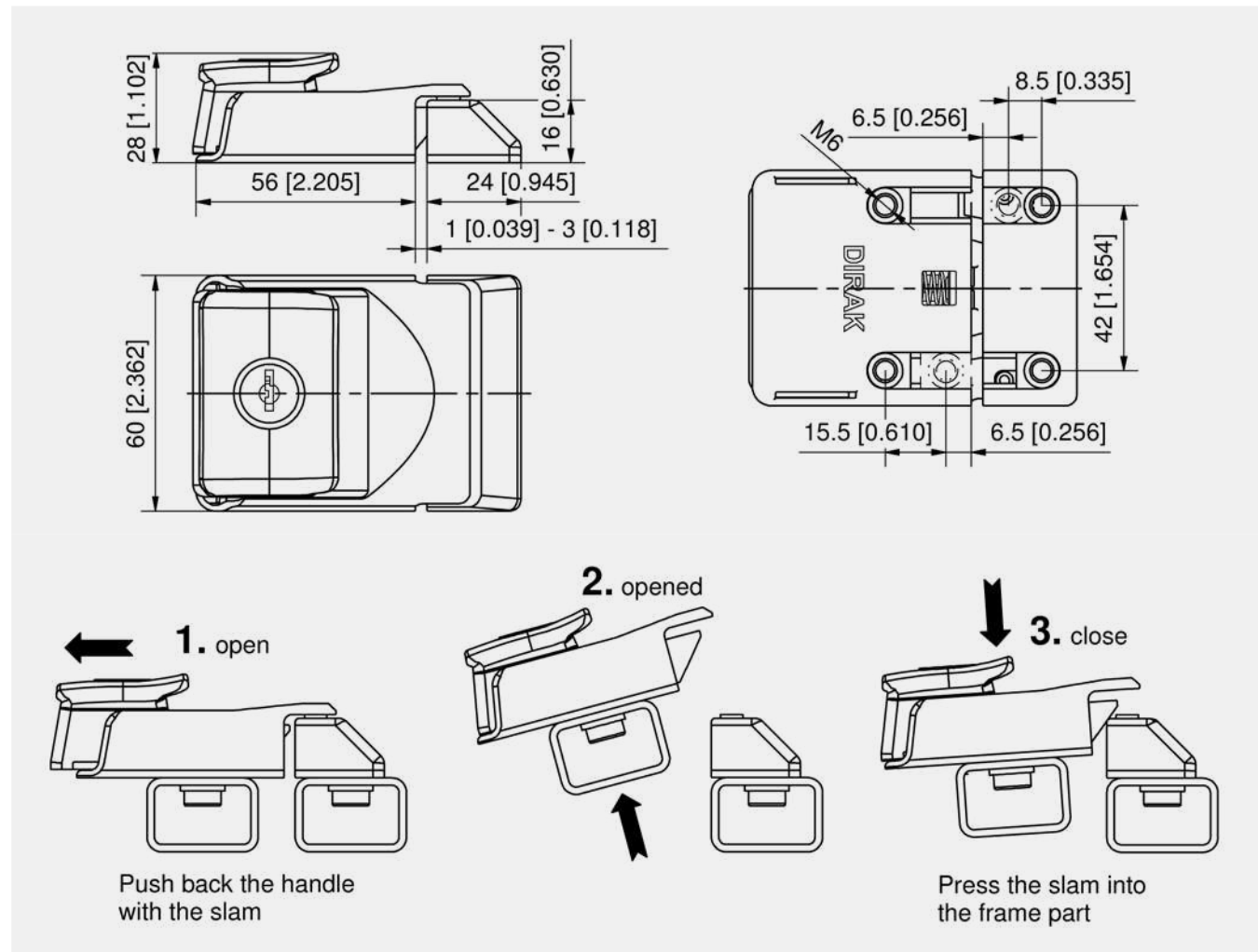


Slam latch, zinc die, chrome plated

Part Number	Latching type	Installation type	Delivery Unit
265-9606.00-00000		screw-on	1 pc.
265-9601.00-00000	keyed alike DIRAK 1333	screw-on	1 pc.
565-9601.00-00000	keyed alike DS200	screw-on	1 pc.
265-9603.00-00000	keyed different	screw-on	1 pc.

Slam latch, zinc die, black

Part Number	Latching type	Installation type	Delivery Unit
265-9605.00-00000		screw-on	1 pc.
265-9602.00-00000	keyed alike DIRAK 1333	screw-on	1 pc.
565-9602.00-00000	keyed alike DS200	screw-on	1 pc.
265-9604.00-00000	keyed different	screw-on	1 pc.



Slam latch, zinc die, black

Part Number	Latching type	Installation type	Delivery Unit
265-9607.00-00001	without lock, with plug	screw-on	1 pc.
265-9607.00-01333	keyed alike DIRAK 1333	screw-on	1 pc.
265-9607.00-99999	keyed different	screw-on	1 pc.



DST



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RoHS
WEEE



Advantages

- Low profile slam latch PICCOLO with DIRAK-SNAP-Technology.
- For flush doors, suitable for lighter applications.
- This slam latch is particularly suitable for closing doors and flaps.
- To release after unlocking, just push the upper, clearly marked part of the handle. The lower part then can be pulled-out and this disengages the spring loaded slam-bolt.
- The spring-loaded slam bolt has a free-stroke, allowing slamming of closed and locked handles.

Materials

- Housing, handle and slam-bolt:** PA, black
- Cam and pin:** steel, zinc plated
- Snap wedges:** sintered steel
- Cylinder:** zinc die, black

Remarks

Installation:
enter slam-side into the cutout first and then snap-in the unit.

Only available with key number 23211.

- stroke



DIN
61373

RoHS
WEEE



Advantages

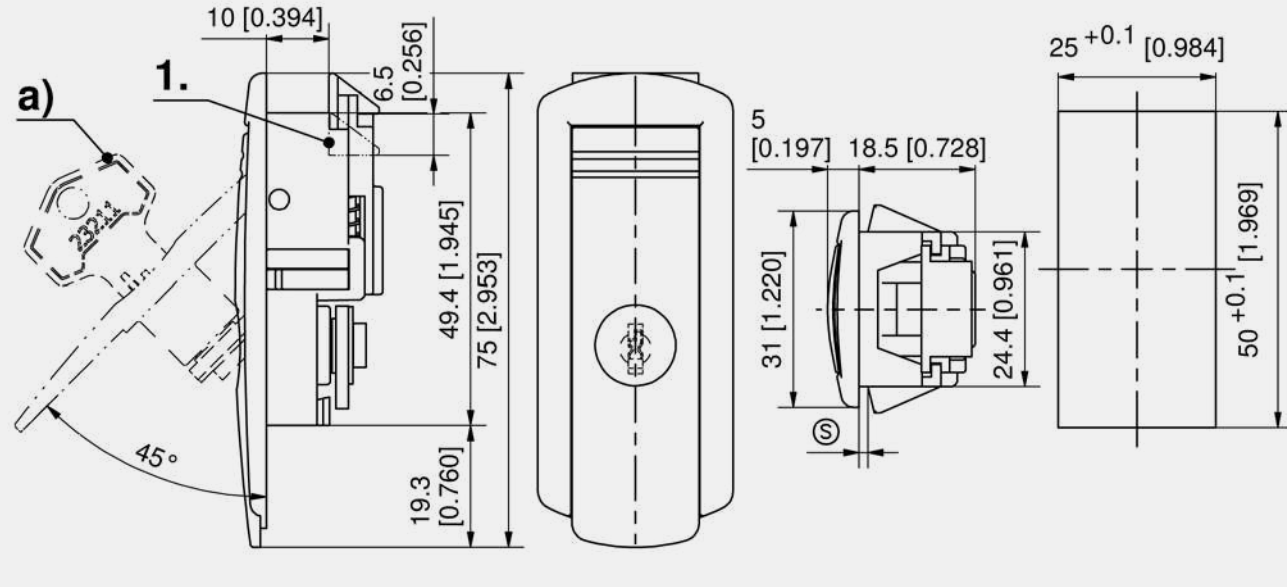
- This low Snap-lock device is especially suitable for latching of doors and lids.
- Tool-less installation.
- Clip-in for door-thickness 0.8mm to 2.0mm.
- The Snap-lock consists of two parts, housing and latch.
- The latch moves within the housing, keeping the panel free of scratches.
- Recessed finger-pull for opening.
- Vibration-proof according to DIN EN 61373.

Materials

- Slam bolt and housing:** PA, black
- Spring:** stainless steel

Remarks

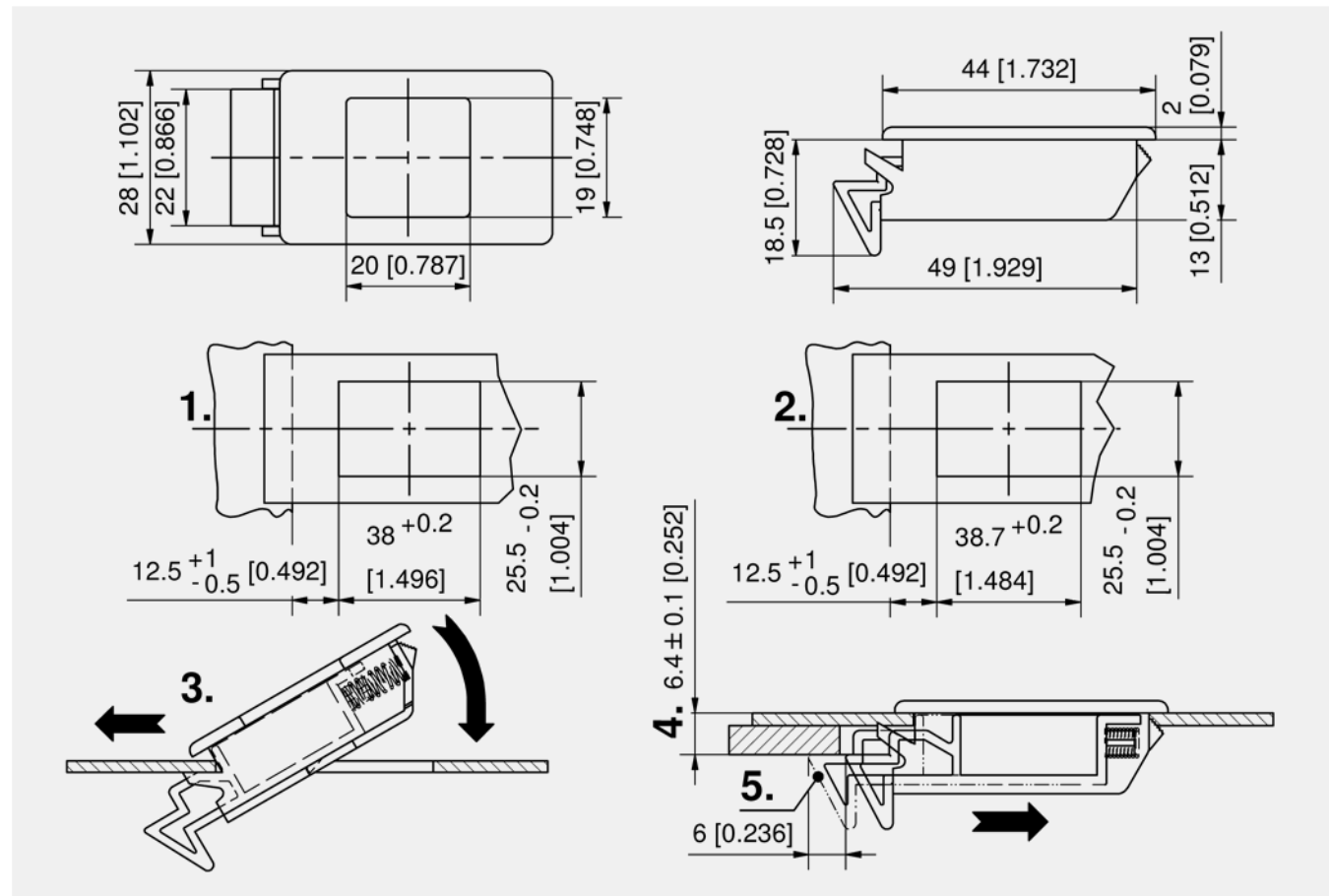
- cutout for door-thickness 0.8 - 1.6mm
- cutout for door-thickness 1.7 - 2.0mm
- installation
- grip
- stroke



Slam latch

Part Number	Clamping range (S)	Latching type	Version	Installation type	Delivery Unit
482-9001.00-00015	1.2 - 1.7 mm	keyed alike No. 23211	without key	tool-less	10 pcs.
482-9001.00-00020	1.7 - 2.2 mm	keyed alike No. 23211	without key	tool-less	10 pcs.
482-9001.00-00025	2.2 - 2.7 mm	keyed alike No. 23211	without key	tool-less	10 pcs.
482-9002.00-00015	1.2 - 1.7 mm	keyed alike No. 23211	with 2 keys	tool-less	10 pcs.
482-9002.00-00020	1.7 - 2.2 mm	keyed alike No. 23211	with 2 keys	tool-less	10 pcs.
482-9002.00-00025	2.2 - 2.7 mm	keyed alike No. 23211	with 2 keys	tool-less	10 pcs.
482-9003.00-00015	1.2 - 1.7 mm		with blind plug	tool-less	10 pcs.
482-9003.00-00020	1.7 - 2.2 mm		with blind plug	tool-less	10 pcs.
482-9003.00-00025	2.2 - 2.7 mm		with blind plug	tool-less	10 pcs.

Specific accessories	
a)	205-9530.00-23211 2 Keys on ring



Snap-lock

Part Number	Installation type	Delivery Unit
282-9001.00-00000	tool-less	10 pcs.





Advantages

- RH / LH or vertical / horizontal application.
- Lock cylinder can be adjusted to accommodate different latch mounting positions.
- Profile-cylinder with lengths of 40 and 45mm and cam acc. to DIN 18252 can be used.
- Pull back of the latch bolt by rotation of the key.
- Closing is possible by self-locking of the latch bolt with 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.

1. stroke
2. latch bolt
3. plug



Advantages

- Profile-cylinder with lengths of 40/45mm and cam acc. to DIN 18252 can be used.
- Two profile-cylinder allow opening by each cylinder without unlocking the other one.
- Made of spheroidal graphite cast iron to ensure high wear resistance.
- Use of different keys and profile-cylinders possible.
- Closing is possible by self-locking of the latch bolt with free stroke.

Materials

- **Slam latch:** zinc die, zinc plated
- **Latch bolt:** spheroidal graphite, cast iron

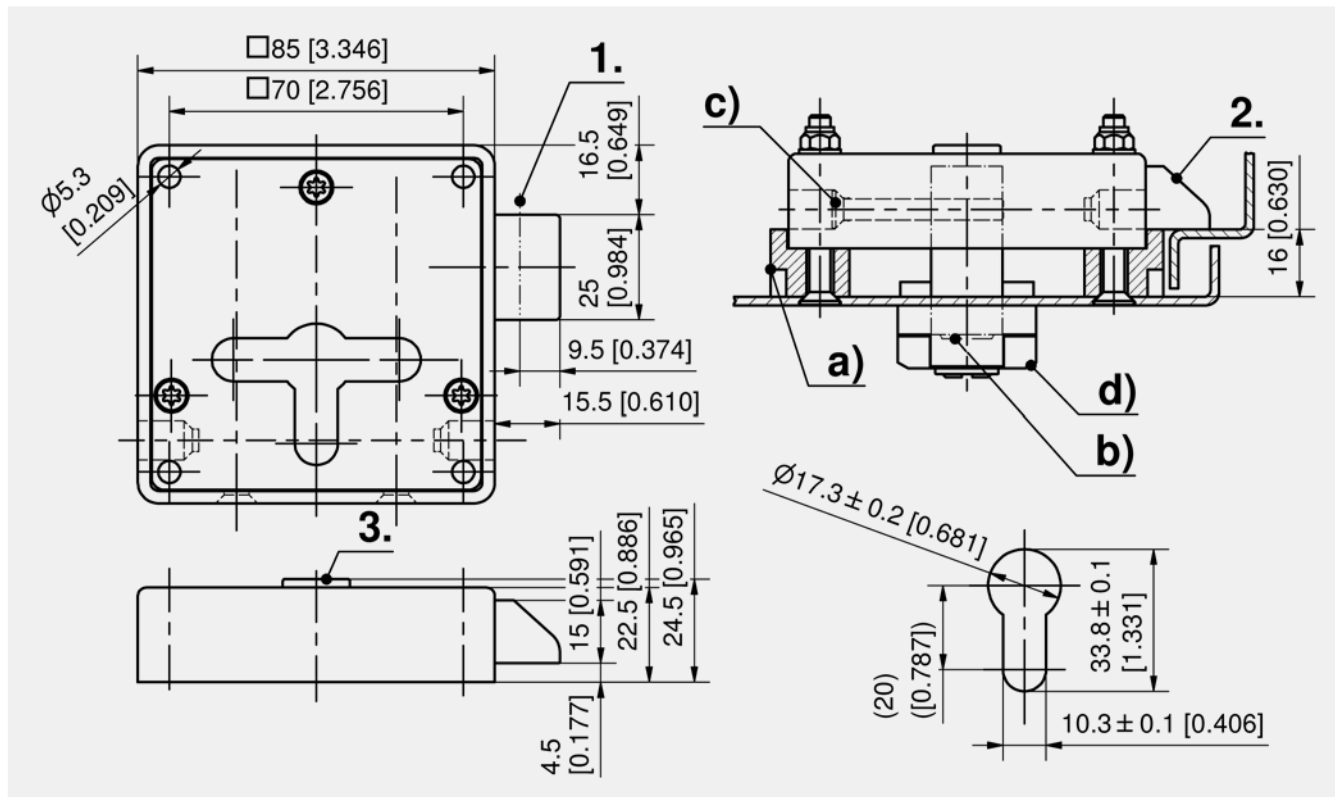
Remarks

Please order separately:
profile-cylinder, lock support and lock cover

Installation with 4 carriage bolts or weld-studs M5.

1. stroke
2. latch bolt
3. plug

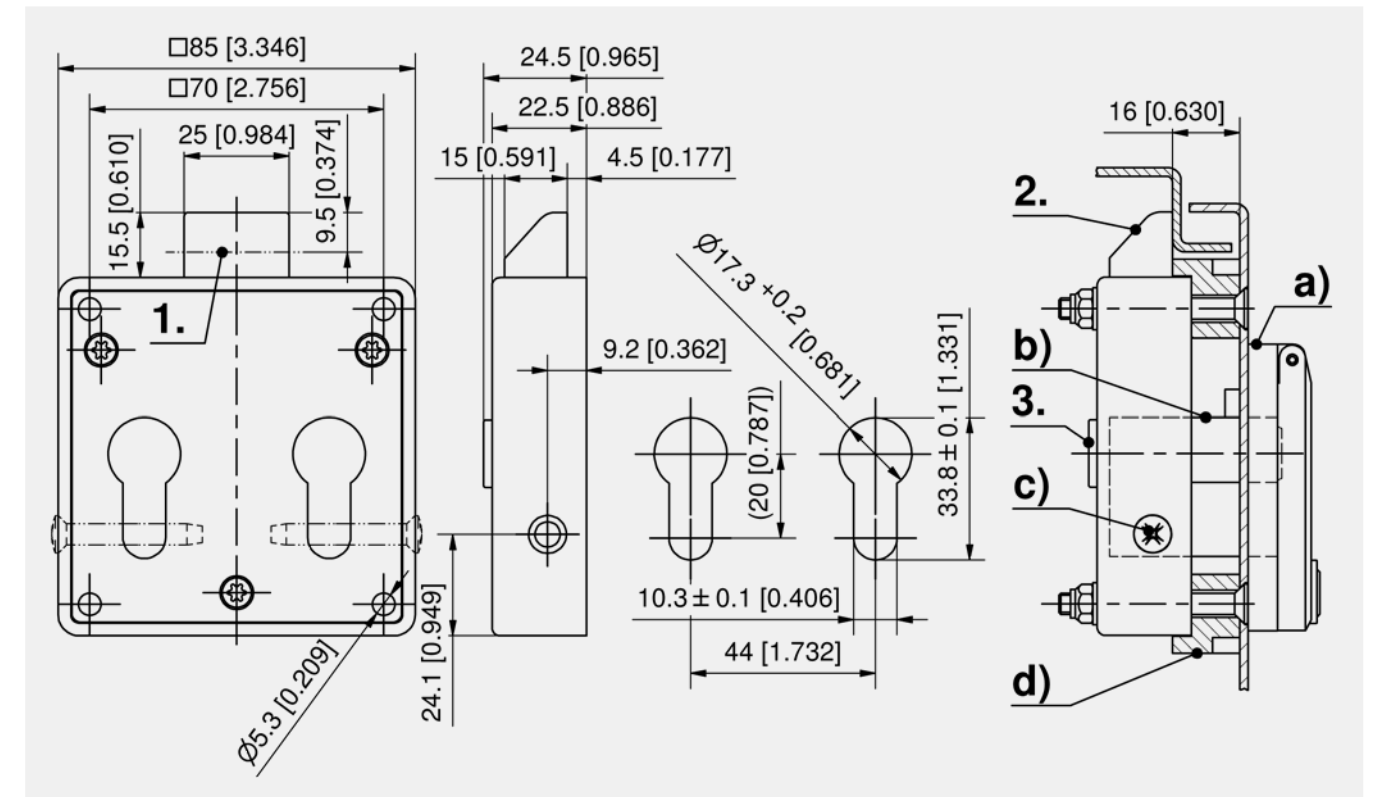
Latches



Slam latch for profile-cylinder

Part Number	Version	Installation type	Delivery Unit
229-9111.00-00000	LH door	screw-on	1 pc.
229-9112.00-00000	RH door	screw-on	1 pc.

Accessories			
a)	429	6-111.03	Lock Support for Slam Latch
b)	304, 388	211-9003.00-00000	DIRAK Profile-cylinder
b)	304, 388	211-9004.00-00000	DIRAK Profile-cylinder
c)	755	860-0965.00-00540	Countersunk screw
d)	425	6-115	Polyamide Lock Cover



Slam latch for profile-cylinder

Part Number	Installation type	Delivery Unit
229-9113.00-00000	screw-on	1 pc.

Accessories			
a)	425	6-115	Polyamide Lock Cover
b)	304, 388	211-9003.00-00000	DIRAK Profile-cylinder
b)	304, 388	211-9004.00-00000	DIRAK Profile-cylinder
c)	755	860-0965.00-00540	Countersunk screw
d)	429	6-111.03	Lock Support for Slam Latch





Advantages

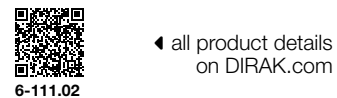
- RH / LH or vertical / horizontal application.
- Pull back of the bolt by rotation of the insert.
- Closing is possible by self-locking of the latch bolt with free stroke.

Materials

- **Slam latch:** zinc die, zinc plated
- **Latch bolt:** spheroidal graphite, cast iron

Remarks

Please order separately:
insert, lock support, lock cover and serrated screw.
Use of inserts according to product system 2-141.
Installation with 4 carriage bolts or weld-studs M5.
1. stroke
2. latch bolt
3. plug



6-111.02



Advantages

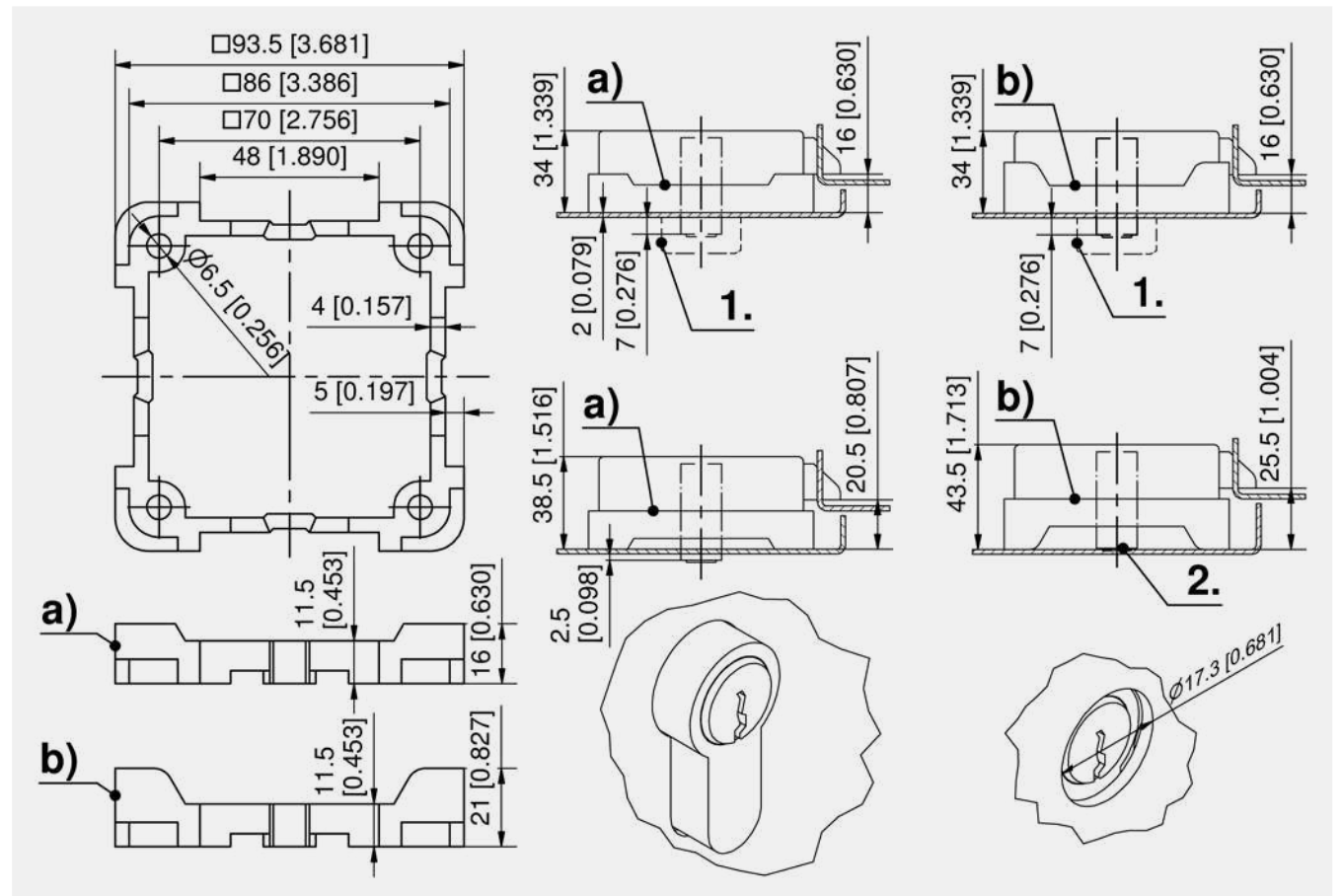
- Lock support 229-0504.35-04045 for bending of 11.5 or 16mm.
- Lock support 229-0504.35-04050 for bending of 11.5 or 21mm.

Materials

- **Lock support:** zinc die, untreated

Remarks

1. e.g. lock cover 237-9001
2. PHZ is under the door panel



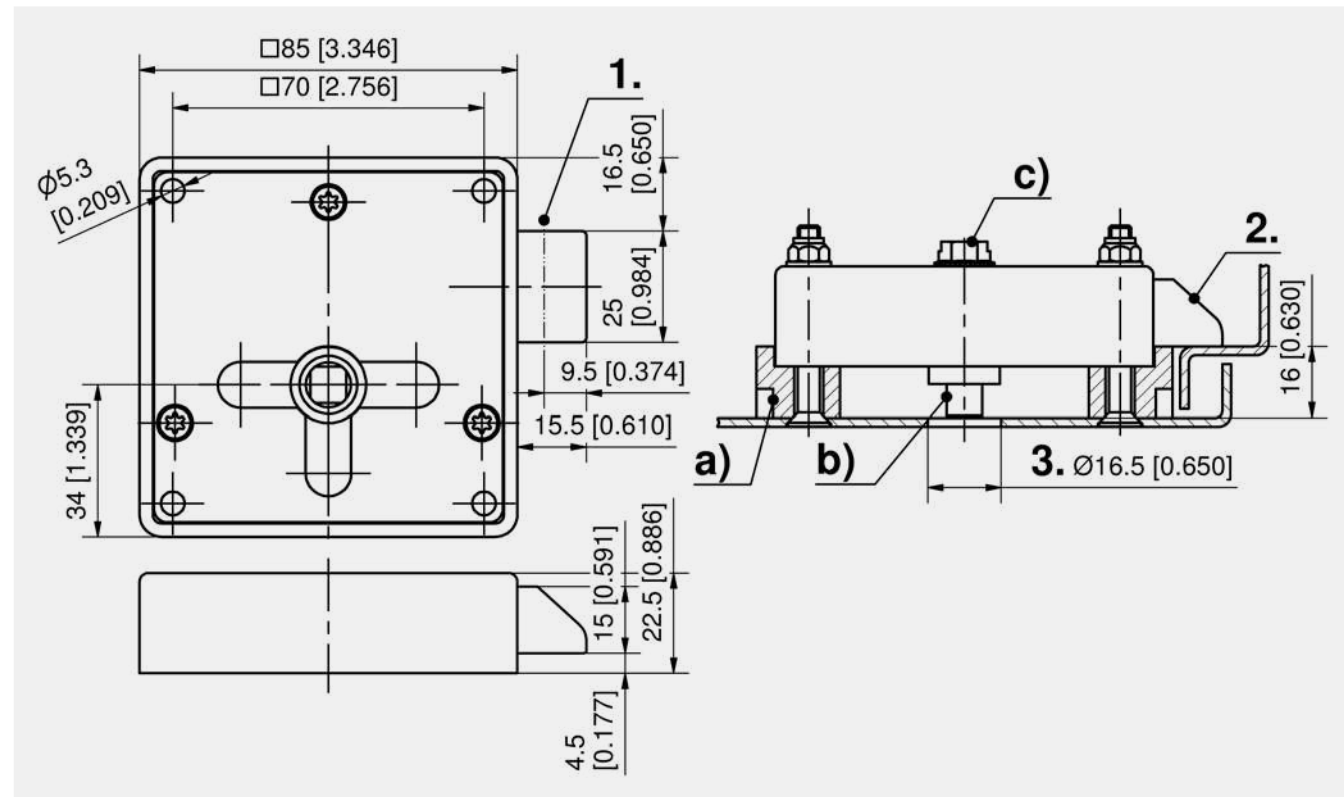
Lock support for slam latch

	Part Number	for bending	Installation type	Delivery Unit
a)	229-0504.35-04045	11,5 or 16mm	screw-on	1 pc.
b)	229-0504.35-04050	11,5 or 21mm	screw-on	1 pc.



6-111.03

Latches



Slam latch for insert

Part Number	Version	Installation type	Delivery Unit
229-9109.00-00000	RH door	screw-on	1 pc.
229-9110.00-00000	LH door	screw-on	1 pc.

Accessories	
a)	429 6-111.03 Lock Support for Slam Latch
b)	303 2-141 Inserts
c)	754 202-0616.00-00000 Serrated screw
	768 6-100 Wrench
	766 6-101 Universal key
	425 6-115 Polyamide Lock Cover



Advantages

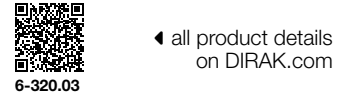
- For heavy doors.
- Both ends come ready to be connected to the handle mechanism.
- By cutting the rod, the handle mechanism can be installed in any position.

Materials

- **Handle:** aluminium
- **Bolt box, base plate, rod guides:** steel, zinc plated

Remarks

- 1. stroke 28mm
- Includes locking bar system incl. base plate and 4 rod guides.
- Please order separately: rod one-piece.



Advantages

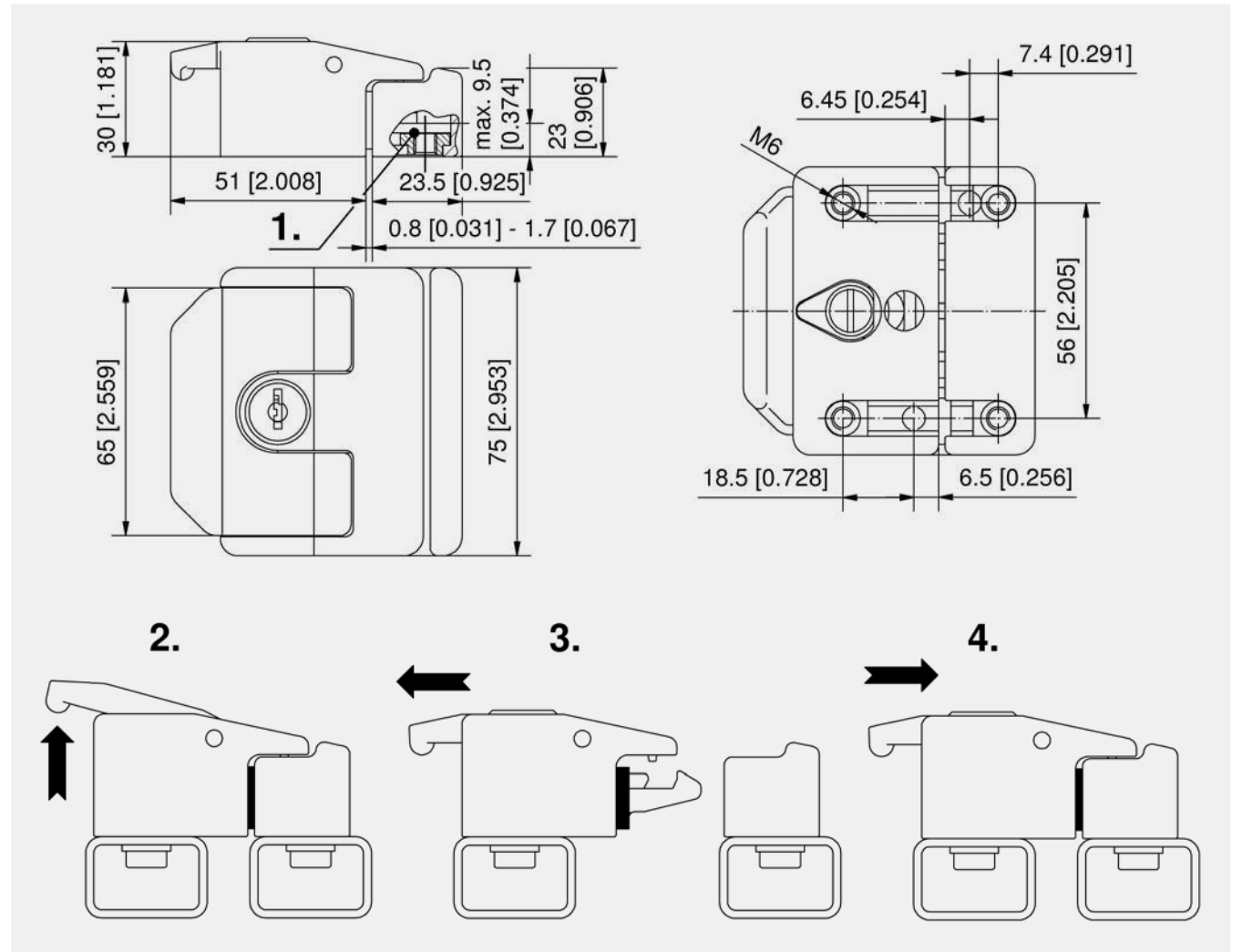
- Slam latch consists of two parts (bolt and locking element) for sliding doors.
- The door-part catches the slam-bolt and is also the limit stop for the frame-part.
- When using extruded aluminium profiles, different profile widths can be used due to oblong holes.
- Finger-tip grip allows easy opening.
- Opening by pulling the handle element.
- Self-closing by sliding the door shut.
- Both self-adhesive rectangular profiles have to be installed after assembly of the slam latch at the inner side of the locking element to absorb noise and vibrations.

Materials

- **Bold and locking element:** zinc die, black
- **Slot nuts:** steel, zinc plated
- **Cylinder barrel:** PA, black
- **Spring:** stainless steel
- **Rectangular seal:** polyurethane, black

Remarks

- Fastening with 4 M6 screws (e.g. DIN912) and the slot nuts included in the scope of delivery.
- 1. slot nuts
- 2. open
- 3. opened
- 4. close
- Version with cylinder barrel includes 2 keys.



Slam latch for sliding door

Part Number	Latching type	Bolt with slam feature	Installation type	Delivery Unit
265-9610.00-00000	without lock, with plug	Yes	screw-on	1 pc.
265-9610.00-01333	keyed alike DIRAK 1333		screw-on	1 pc.
265-9610.00-09999	keyed different		screw-on	1 pc.



Locking bar system incl. base plate and 4 rod guides

Part Number	Multi-point latches	Installation type	Delivery Unit
a) 249-9205.00-00000	Yes	screw-on	1 pc.

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
e) 249-0304.00-00000	Bottom plate, angled
f) 249-0603.00-00000	Bar latching bushing for concrete, 2 parts
d) 249-0205.00-00000	Bottom plate, straight



Advantages

- By pulling on the handle, the hooked cam with free stroke is disengaged and the lock released.
- 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.
- For low or smaller doors, also possible with one hooked cam element.

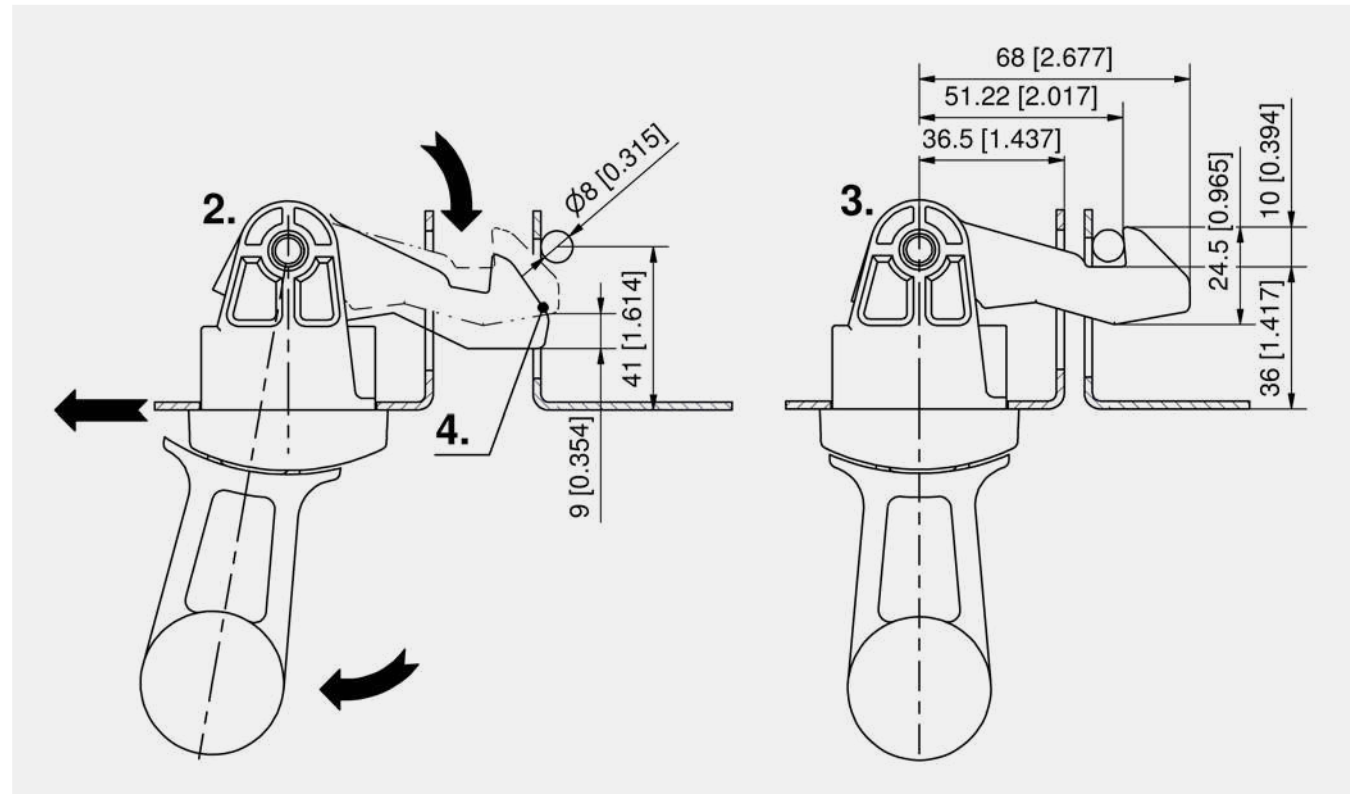
Materials

- **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

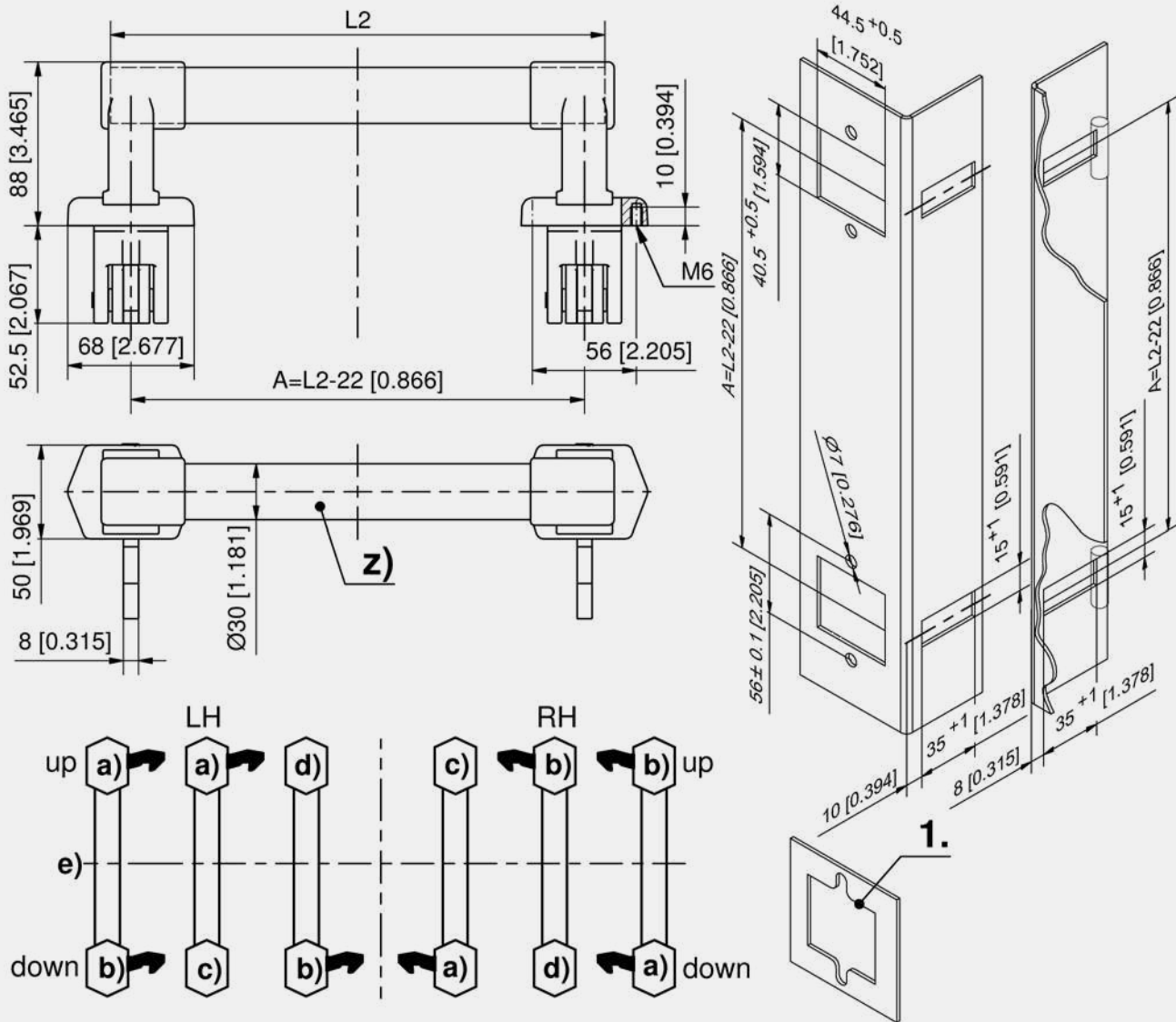
A = distance between the center of the cutouts of the endpieces.



Latching device

	Part Number	Version	Delivery Unit
a)	280-9001.00-00000	with hooked cam	1 pc.
b)	280-9002.00-00000	without hooked cam	1 pc.
c)	280-9003.00-00000	with hooked cam	1 pc.
d)	280-9004.00-00000	without hooked cam	1 pc.

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





Advantages

- Hooked cam with free stroke.
- Version RH, hook LH.
- Version LH, hook RH.
- Opening angle of the hook 15°.

Materials

- **Sliding door latch and cam:** steel, zinc plated
- **Plug:** PE, black

Remarks

Please order separately:
b) lock support

Please configure the sliding door latch with escutcheon and insert or T- and L-handle or with swinghandle.

1. example for frame cutout



Advantages

- Very suitable for applications on 19° racks and sliding doors.
- This device can be operated by all quarter-turns L18 with insert or handles.
- The extremely positive torque ratio allows for controlling this hook-latch by a cylinder latch.
- 90° stroke.
- Latching direction is always clockwise.
- Vibration-proof.

Materials

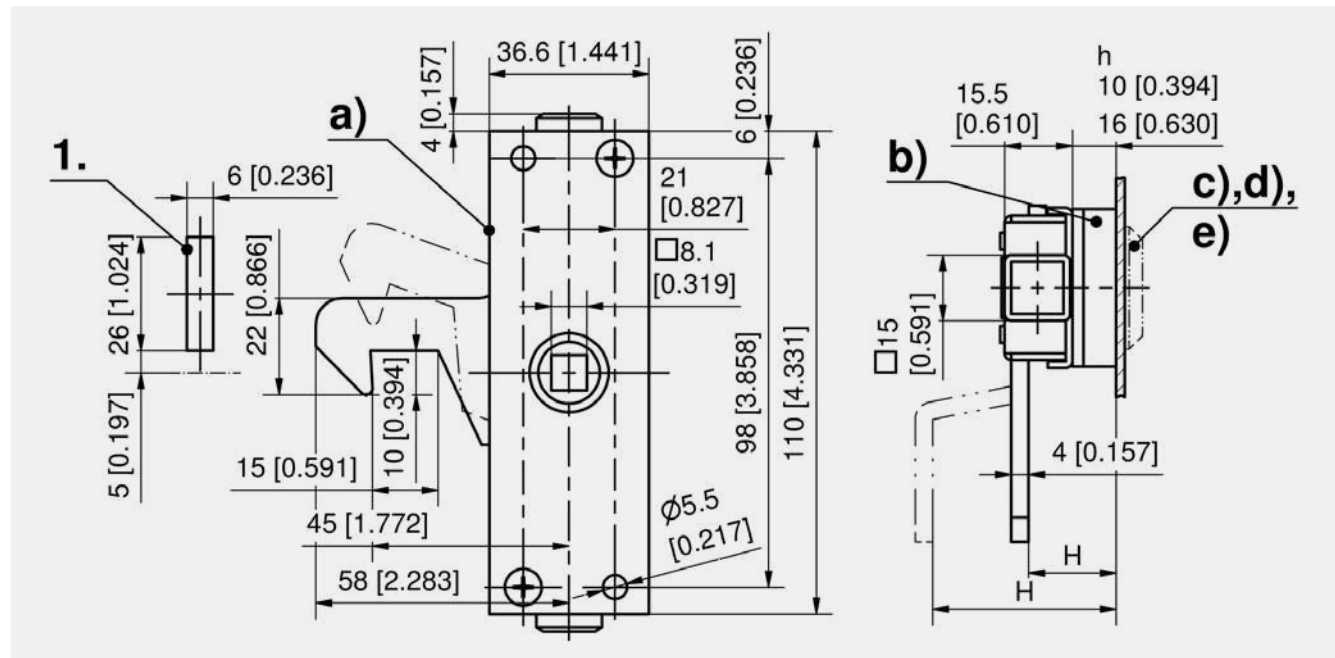
- **Pull and lock hook, locking bolt, line-up fork:** steel, zinc plated

Remarks

(S) Door-thickness 1.5 - 2.5mm

1. open position.
2. hook catches behind the locking bolt and continuing the closing rotation, the hook is then being pulled automatically against the locking bolt. The pulling stroke is 5mm.
3. at the end of rotation process the hook has a vibration proof latch behind the locking bolt.

Latches



Sliding door version LH, slide direction RH

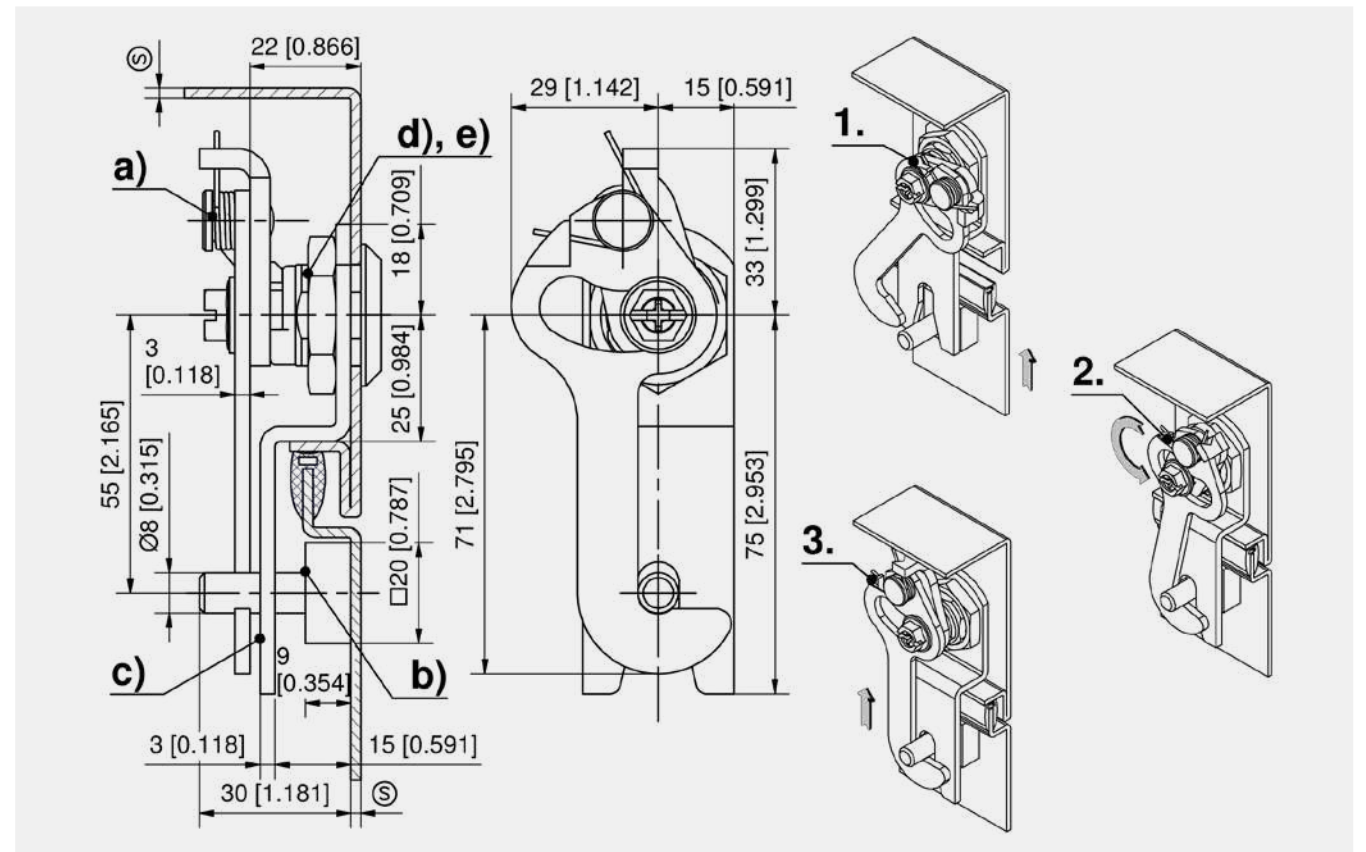
	Part Number	H-dimension without support	H-dimension with lock support A20	H-dimension with lock support A26	Installation type	Delivery Unit
a)	235-9015.00-00000	10 mm	20 mm	26 mm	screw-on	1 pc.
a)	235-9017.00-00000	32 mm	42 mm	48 mm	screw-on	1 pc.

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	Delivery Unit
a)	235-9016.00-00000	10 mm	20 mm	26 mm	screw-on	1 pc.
a)	235-9018.00-00000	32 mm	42 mm	48 mm	screw-on	1 pc.

Accessories		
b)	205, 206	235-1001.00-00000 Lock support A20
b)	205, 206	235-1002.00-00000 Lock support A26
c)	212	235-9101.00-00000 Insert Square 6mm
c)	212	235-9102.00-00000 Insert square 7mm
c)	212	235-9103.00-00000 Insert square 8mm
c)	212	235-9104.00-00000 Insert triangular 6.5mm CNOMO
c)	212	235-9105.00-00000 Insert triangular 7mm

Accessories		
c)	212	235-9106.00-00000 Insert triangular 8mm
c)	212	235-9107.00-00000 Insert double bit 3mm pin
c)	212	235-9108.00-00000 Insert double bit 5mm pin
c)	212	235-9109.00-00000 Insert Daimler Benz pin
d)	210	1-430 T- and L-Handles for Rod Latches
e)	268	2-300 Swinghandle RS 130 for Rod Latch



Pull and lock hook

	Part Number	Name	Compression	Vibration-proof	Installation type	Delivery Unit
a)	200-9602.00-00000	Pull and Lock Hook	5 mm	Yes	screw-on	10 pcs.
b)	200-3704.00-00000	Locking bolt for Pull and Lock Hook		No	weld-on	10 pcs.
c)	200-3703.00-00000	Line-up fork for Pull and Lock Hook		No	screw-on	10 pcs.

Accessories		
d)	76	1-100 Quarter-Turn Pr20.1 L18
d)	75	1-100.01 Quarter-Turn Pr20.1 L18
d)	88	1-120 Cylinder Quarter-Turn Pr20.1 L18
d)	108	1-140 Quarter-Turn with T-Handle Pr20.1 L18
d)	114	1-150 Quarter-Turn with L-Handle Pr20.1 L18
e)	150	1-101 Inserts Pr20.1





Advantages

- Slam-cam for slam doors. Locking without key or tool.
- The washer adjust the correct friction for the stroke.
- A pre-assembled quarter-turn can be installed through the cutout.
- RH and LH version.

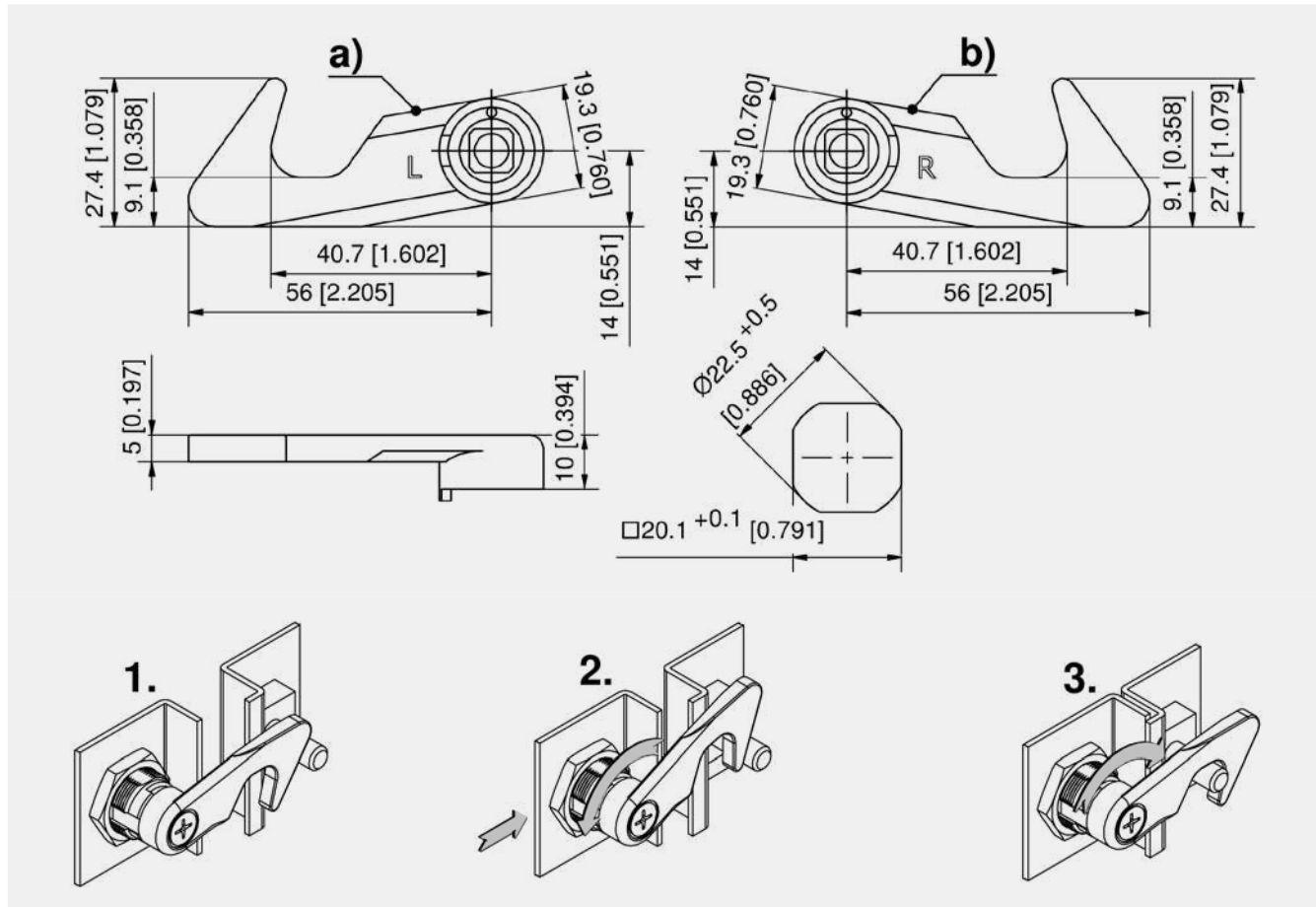
Materials

- **Slam-cam:** zinc die
- **Spring and countersunk screw:** steel, zinc plated
- **Stepped washer:** POM

Anmerkungen

Only for quarter-turns with insert.
Please order quarter-turn completely pre-assembled by DIRAK.

Fastening Technology



Slam-cam for inserts

	Part Number	Version	Installation type	Delivery Unit
a)	200-9639.00-00000	LH	screw-on	10 pcs.
b)	200-9638.00-00000	RH	screw-on	10 pcs.

Accessories	
76	1-100 Quarter-Turn Pr20.1 L18
150	1-101 Inserts Pr20.1
477	200-3704.00-00000 Locking bolt for Pull and Lock Hook



DST

SIMPLE. SECURE. DIRAK-SNAP- TECHNOLOGY.

In a world full of connections, we deliver pioneering technology. With DIRAK-SNAP-Technology (DST), you can create high-strength connections easily and without tools – so that your idea can safely become great.

To discover unlimited possibilities, try a new approach easily and at any time with DIRAK-SNAP-Technology. Now you too can use the best solution for your applications and experience the special features of this trendsetting technology – discover what is possible.

High strength with
secure locking

Tool-less
installation in just
seconds – reliable
and convenient
disassembly

Connect materials
with different
thicknesses

Rattle, vibration and
seismic-proof

Reliable and error-
free installation –
even in places that
are hard to reach

Secure and
electrically
conductive

Cannot be lost.

The DST fastener is captive so it cannot be lost, thus meeting the requirements of the Machinery Directive 2006/42EC.

Page 735



Installation in just seconds at Haromac thanks to DST.

Oliver Lück, Managing Director of the HAROMAC tool factory: "The workbenches presented a new challenge for us. They had to provide good load-bearing capacity and be easy to assemble without any screws and with just a few tools. The DST fasteners meet our standards for fast assembly with no screws and good load-bearing capacity, and they are especially well suited for our workbenches."

Page 737

Fastener for
applications
requiring electrical
conductivity.



Page 747

If you do use screws,
try this way.

Potential equalization with a screw: With the new countersunk grounding screw, a segment cutting edge and scraping tooth can be used to create electrical connections between two metal sheets even without any additional small parts.

Page 752

Offers potential.

The DIRAK grounding cage nut has been successfully tested to DIN EN 61439-1 (VDE 0660 part 600):2012:06 and offers a reliable electrically conductive connection at all times.





Advantages

- To clip-in for □ 9.5 or □ 12.7 cutout or with 10mm gap, e.g. aluminum profiles.
- Audible click ensures proper secure installation.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- The square base 9.2 and 12.5 prevents the joiner from turning within the installation cutout.

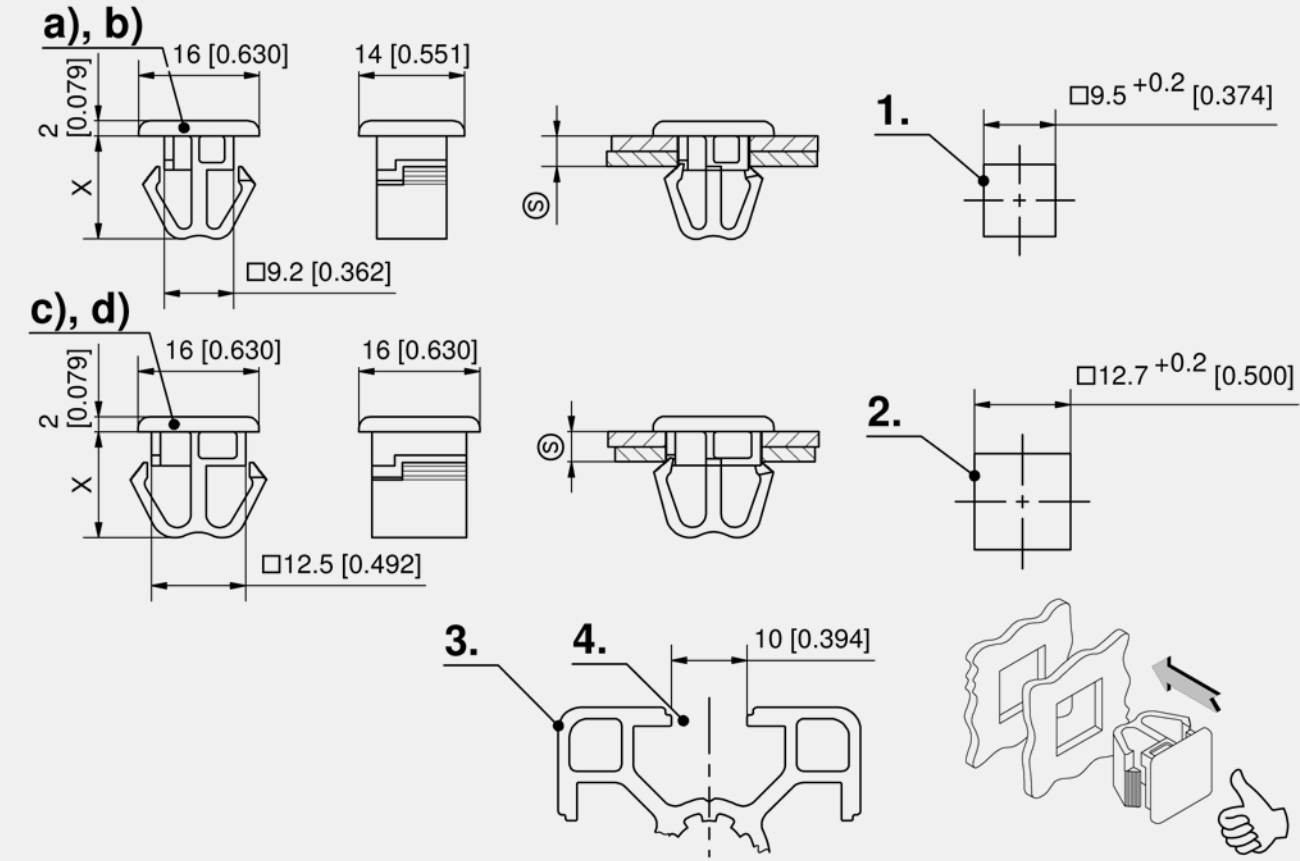
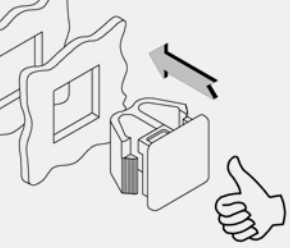
Materials

■ **Fastener:** PA, black

Remarks

The (S) dimension indicates the total thickness of the sheet metal panels.

1. cutout for a) and b)
2. cutout for c) and d)
3. aluminum profile fit for a) and b)
4. groove



Fastener

	Part Number	Clamping range (S)	Cutout	Dimension X	Installation type	Delivery Unit
a)	214-0109.51-00000	3.0 - 3.5 mm	9.5	12.6 mm	tool-less	250 pcs.
b)	214-0109.51-10000	4.0 - 4.5 mm	9.5	13.6 mm	tool-less	250 pcs.
c)	214-0109.51-20000	3.0 - 3.5 mm	12.7	13 mm	tool-less	250 pcs.
d)	214-0109.51-30000	4.0 - 4.5 mm	12.7	14 mm	tool-less	250 pcs.

Advantages

- With DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout □ 9.7.
- Vibration-proof.
- Tool-less installation.
- The joining of metal sheets is achieved by pressing the fastener into the cutouts.

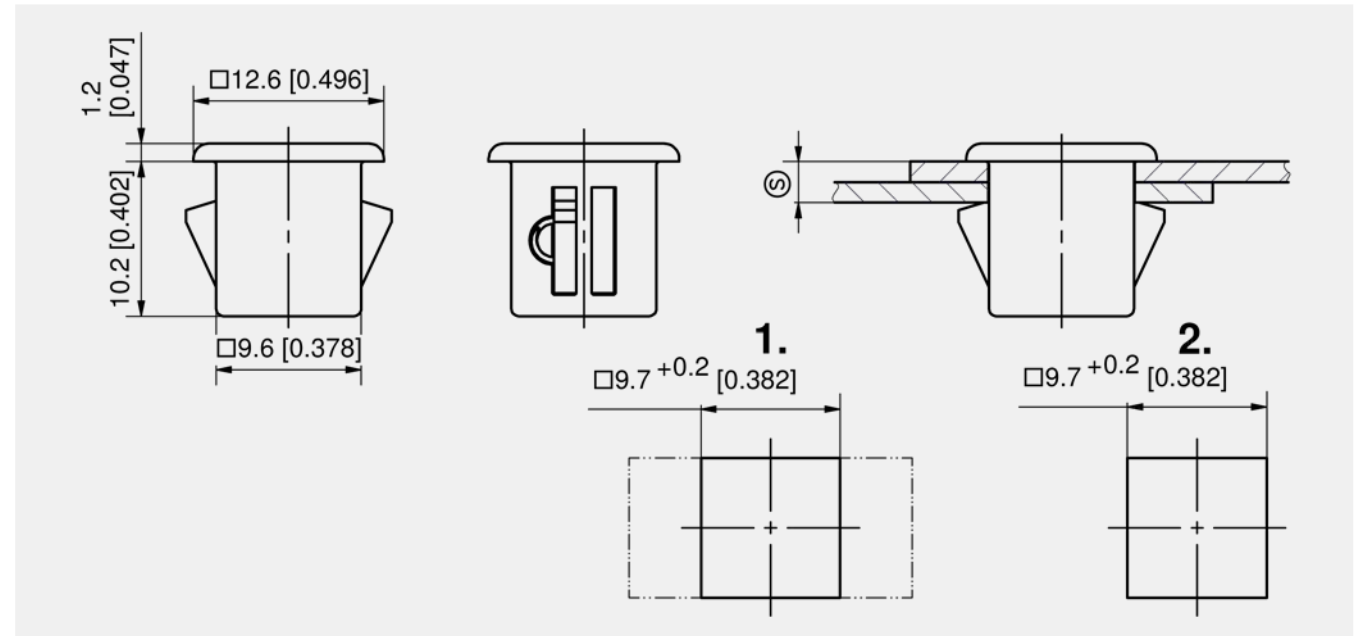
Materials

- **Housing:** zinc die, untreated
- **Snap wedges:** sintered steel, zinc plated

Remarks

The dimension (S) always means the thickness of both sheets together

1. cutout rear panel, also possible as oblong hole for tolerance adjustment.
2. cutout front panel



Fastener

Part Number	Clamping range (S)	Installation type	Delivery Unit
294-9104.00-02224	2.2 - 2.4 mm	tool-less	10 pcs.
294-9104.00-02527	2.5 - 2.7 mm	tool-less	10 pcs.
294-9104.00-02830	2.8 - 3.0 mm	tool-less	10 pcs.
294-9104.00-03133	3.1 - 3.3 mm	tool-less	10 pcs.





Advantages

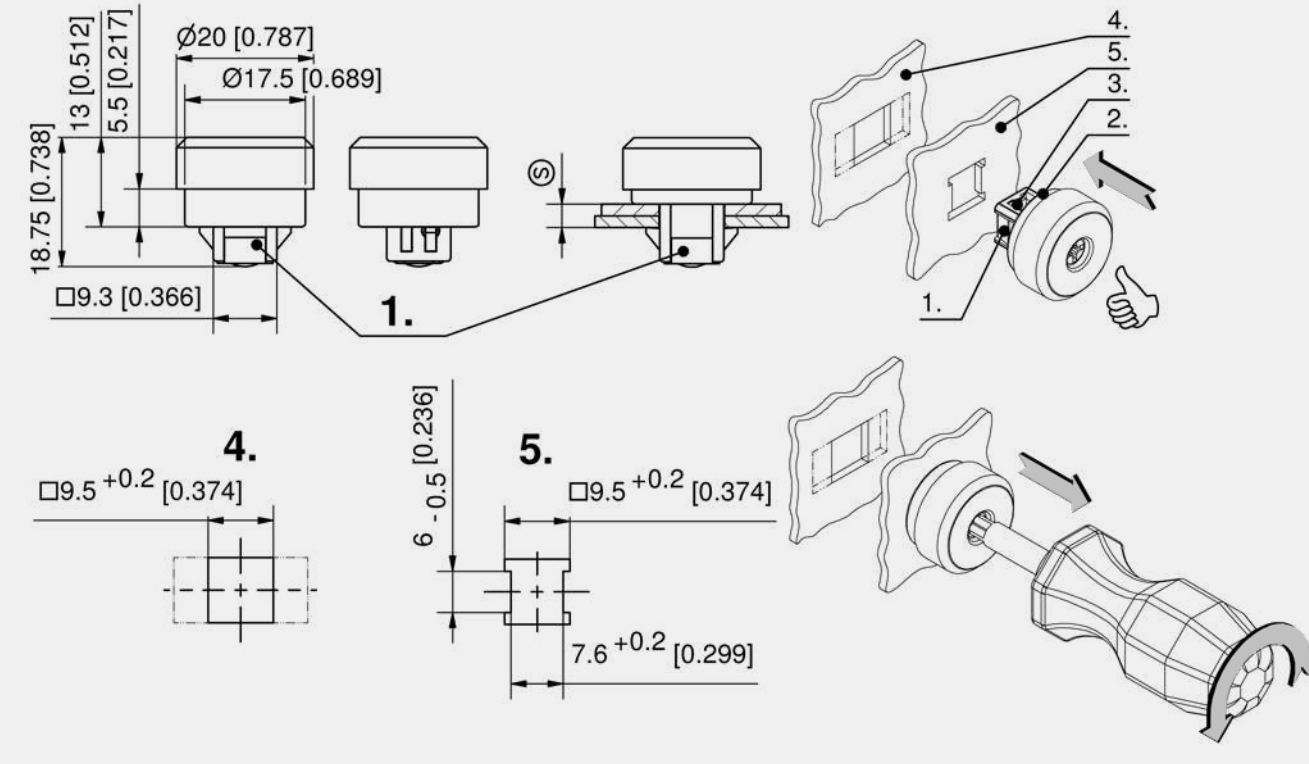
- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 9.5.
- Meets machinery directive 2006/42EC.
- After pre-assembly the concern of losing, dropping or misplacing hardware is eliminated.
- Held securely in the cutout.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- Operation by Phillips H2
- Opening by a 1/4 turn of the insert.
- Self-adjusting clamping range of 0.5 - 5.5mm.
- One-piece.

Materials

- **Housing and washer:** zinc die, chrome plated
- **Insert:** aluminum, hardened
- **Springs:** spring steel
- **SNAP wedges:** sintered steel, zinc plated

Remarks

Removal: by turning the screwdriver 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 in the rear panel can also be an oblong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Clamping range (S)	Insert	Installation type	Delivery Unit
294-9302.00-00055	0.5 - 5.5 mm	Phillips H2	tool-less	10 pcs.



Advantages

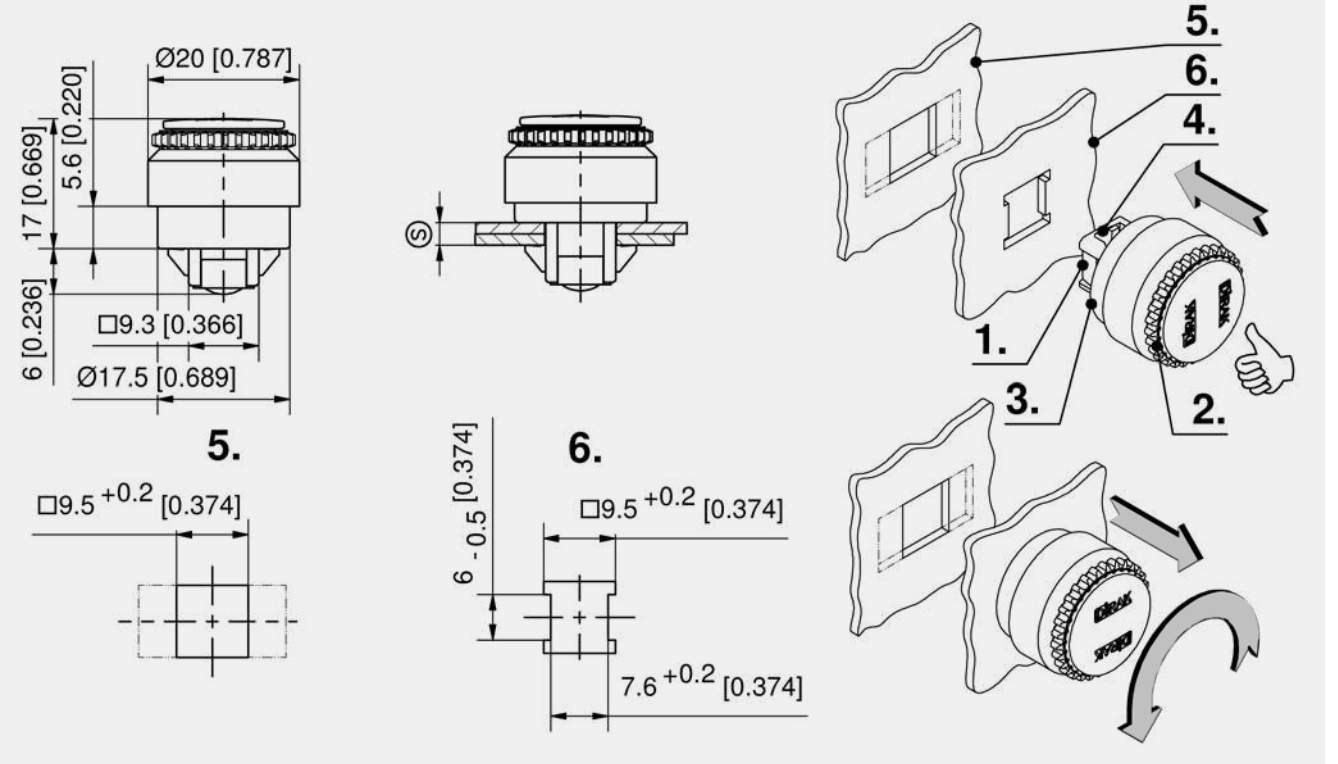
- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 9.5.
- Meets machinery directive 2006/42EC.
- After pre-assembly the concern of losing, dropping or misplacing hardware is eliminated.
- Held securely in the cutout.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- Opening by a 1/4 turn by means of handwheel with freestroke.
- Self-adjusting clamping range of 0.5 - 5.5mm.
- 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.) counterclockwise, the SNAP wedges (4.) are retracted. 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 in the rear panel can also be an oblong hole for tolerance adjustment. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Insert	Clamping range (S)	Installation type	Delivery Unit
294-9303.00-00055	Handwheel	0.5 - 5.5 mm	tool-less	10 pcs.





Advantages

- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 9.5.
- Meets machinery directive 2006/42EC.
- After pre-assembly the concern of losing, dropping or misplacing hardware is eliminated.
- Held securely in the cutout.
- Seismic-proof according to GR-63-CORE, Issue 4.
- 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, matt chrome plated or black
- Insert:** zinc die, zinc plated
- Springs:** spring steel
- Snap wedges:** sintered steel, zinc plated

Remarks

Removal: turning the screwdriver 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 in the rear panel can also be an ablong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Advantages

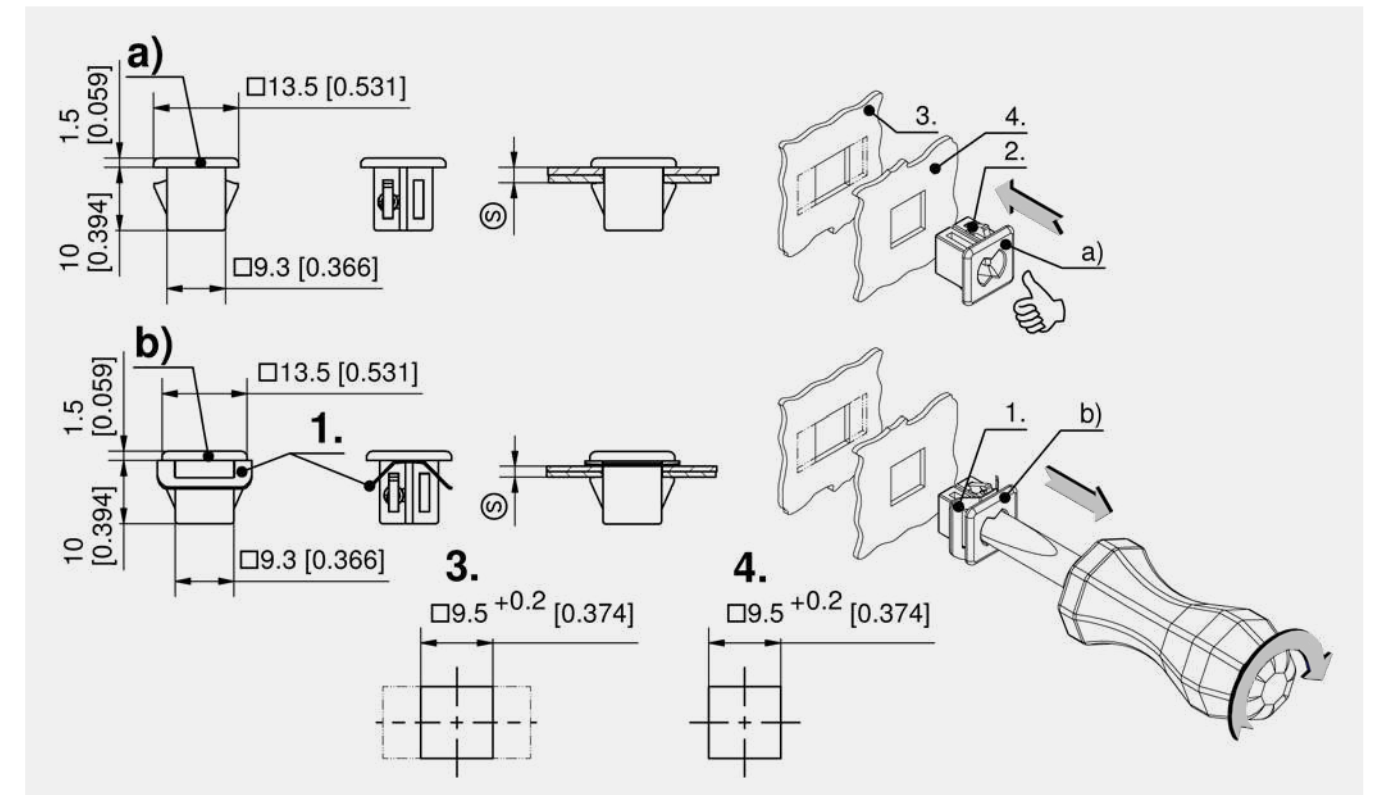
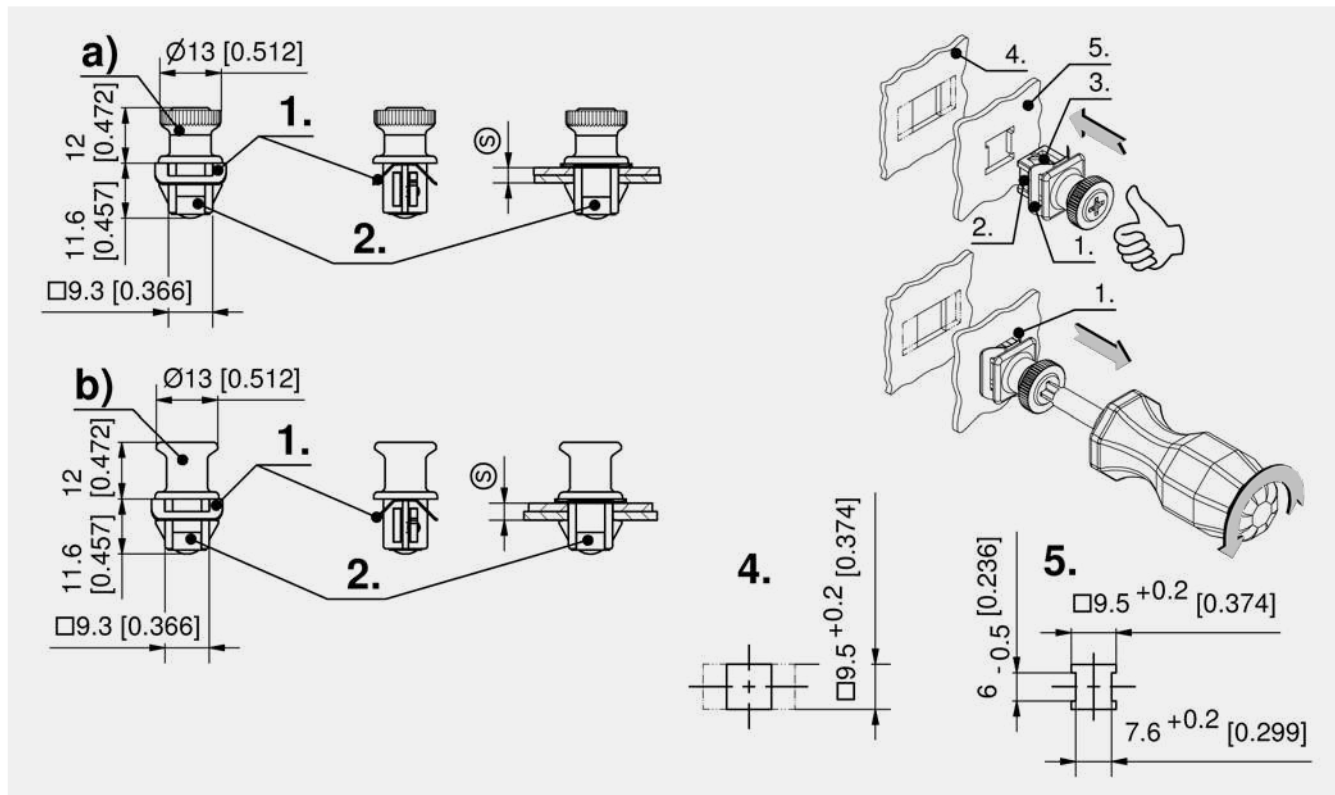
- With DIRAK-SNAP-Technology for joining of metal sheets.
- For cutout □ 9.5.
- Vibration-proof.
- Tool-less installation.
- This fastener can be disengaged from the front of the panel using a flathead screwdriver (Size max. 7x1mm, min. 6x1mm).
- The joining of metal sheets is achieved by pressing the fastener into the cutouts.

Materials

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel, zinc plated
- Leaf spring:** stainless steel

Remarks

Removal: by turning the screwdriver 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 in the rear panel can also be an ablong hole for tolerance adjustment. (4.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



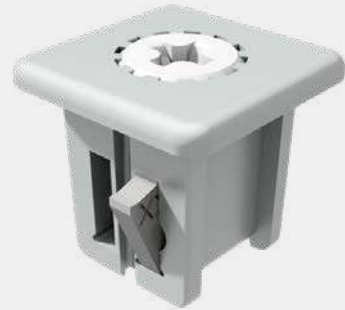
Fastener, zinc die

	Part Number	Surface	Clamping range (S)	Insert	Installation type	Delivery Unit
a)	294-9210.00-00017	chrome plated	1.5 - 2.0 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9210.00-00026	chrome plated	2.5 - 2.8 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9210.00-00034	chrome plated	3.3 - 3.6 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9210.00-00042	chrome plated	4.1 - 4.4 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9211.00-00017	black	1.5 - 2.0 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9211.00-00026	black	2.5 - 2.8 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9211.00-00034	black	3.3 - 3.6 mm	Turning knob/Phillips H2	tool-less	10 pcs.
a)	294-9211.00-00042	black	4.1 - 4.4 mm	Turning knob/Phillips H2	tool-less	10 pcs.
b)	294-9220.00-00138	black	3.7 - 4.0 mm	Torx insert	tool-less	10 pcs.

Fastener with slotted insert

	Part Number	Version	Clamping range (S)	Installation type	Delivery Unit
a)	294-9117.00-00022	without leaf spring	2.0 - 2.5 mm	tool-less	10 pcs.
a)	294-9117.00-00031	without leaf spring	3.0 - 3.3 mm	tool-less	10 pcs.
a)	294-9117.00-00035	without leaf spring	3.4 - 3.7 mm	tool-less	10 pcs.
a)	294-9117.00-00043	without leaf spring	4.2 - 4.5 mm	tool-less	10 pcs.
b)	294-9116.00-00017	with leaf spring	1.5 - 2.0 mm	tool-less	10 pcs.
b)	294-9116.00-00026	with leaf spring	2.5 - 2.8 mm	tool-less	10 pcs.
b)	294-9116.00-00030	with leaf spring	2.9 - 3.2 mm	tool-less	10 pcs.
b)	294-9116.00-00038	with leaf spring	3.7 - 4.0 mm	tool-less	10 pcs.





Advantages

- With DIRAK-SNAP-Technology for joining sheet metal panels.
- For cutout □ 9.5.
- Vibration-proof.
- Tool-less installation.
- This fastener can be disengaged from the front of the panel using a Phillips H2 screwdriver.
- Sheet metal panels are easily joined by manually pressing the fastener through the panel cutout.
- One piece.

Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel, zinc plated
- **Insert:** aluminum, 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 in the rear panel can also be an oblong hole for tolerance adjustment. (2.) Cutout front panel. The (S) Dimension indicates the total thickness of the sheet metal panels.

Delivery time on request!



Advantages

- With DIRAK-SNAP-Technology for joining sheet metal panels.
- For cutout □ 9.5.
- Vibration-proof.
- Tool-less installation.
- This fastener can be disengaged from the front of the panel using a Phillips H2 screwdriver.
- Sheet metal panels are easily joined by manually pressing the fastener through the panel cutout.
- One piece.

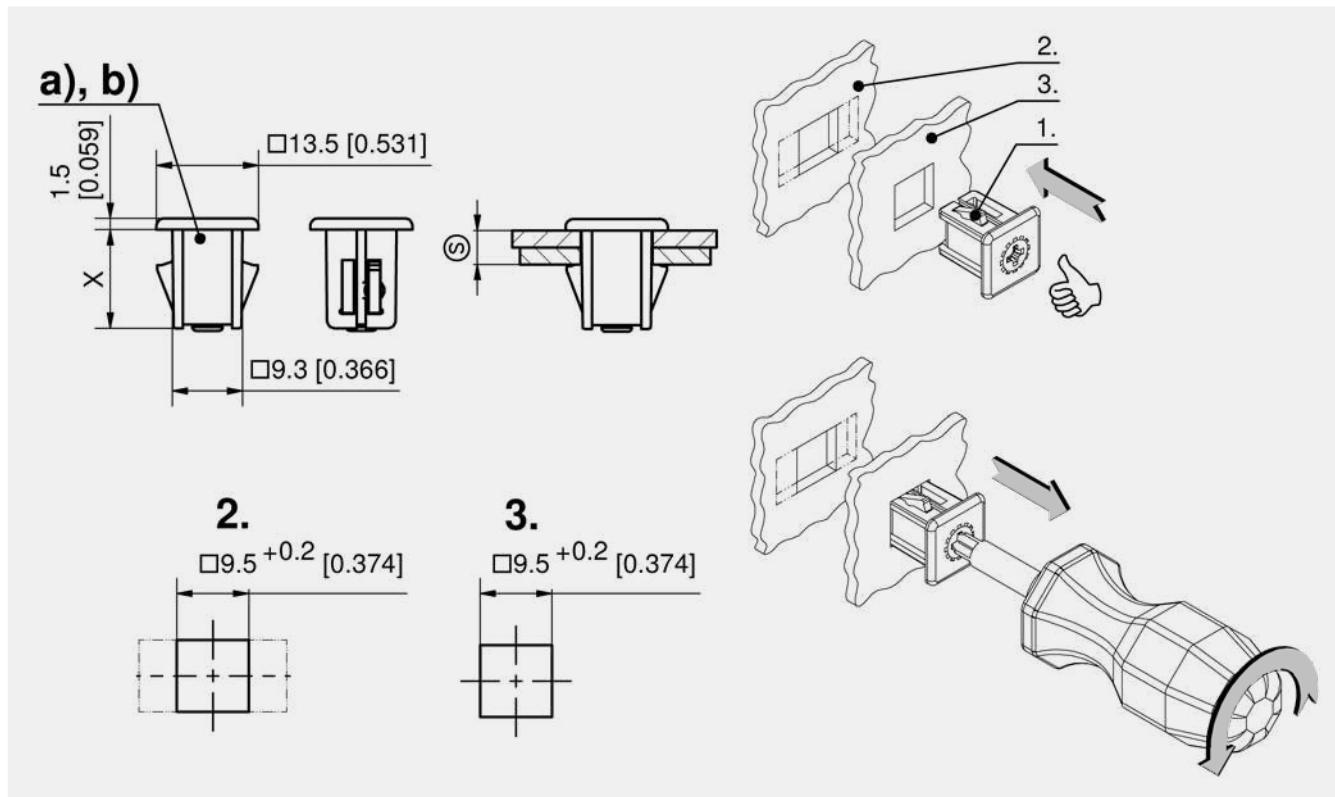
Materials

- **Housing:** zinc die, untreated
- **SNAP wedges:** sintered steel, zinc plated
- **Leaf spring:** stainless steel
- **Insert:** aluminum, hardened

Remarks

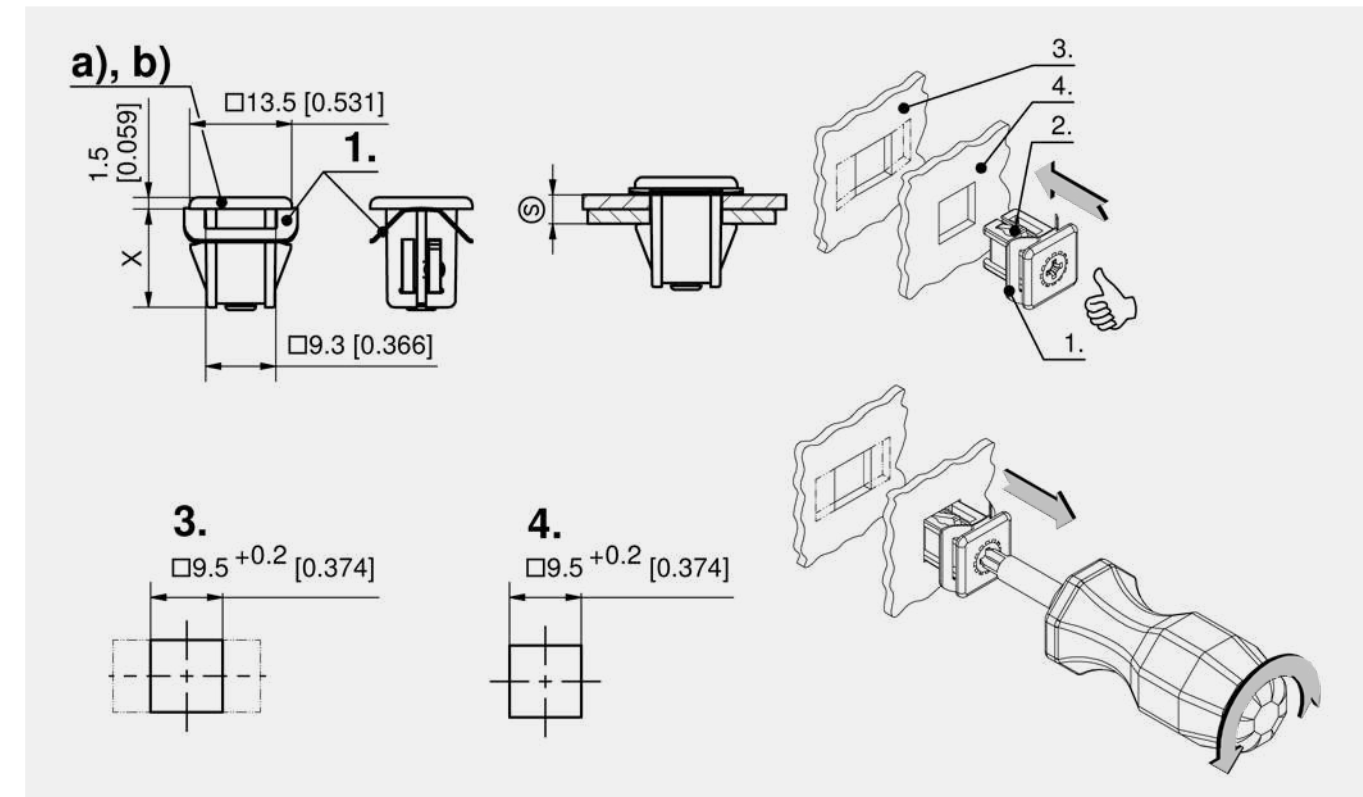
1. leaf spring
2. SNAP wedges
3. cutout rear panel, also possible as oblong hole for tolerance adjustment.
4. cutout front panel
Removal: by turning the screwdriver counterclockwise, the SNAP wedges are retracted. The leaf spring pushes the fastener out of rear panel. The (S) dimension indicates the total thickness of the sheet metal panels.

Delivery time on request!



Fastener with insert Phillips H2, without leaf spring

	Part Number	Clamping range (S)	Dimension X	Installation type	Delivery Unit
a)	294-9114.00-00031	3.0 - 3.3 mm	11 mm	tool-less	10 pcs.
a)	294-9114.00-00039	3.8 - 4.1 mm	11 mm	tool-less	10 pcs.
b)	294-9120.00-00042	4.0 - 4.5 mm	13 mm	tool-less	10 pcs.
b)	294-9120.00-00051	5.0 - 5.3 mm	13 mm	tool-less	10 pcs.
b)	294-9120.00-00055	5.4 - 5.7 mm	13 mm	tool-less	10 pcs.
b)	294-9120.00-00059	5.8 - 6.1 mm	13 mm	tool-less	10 pcs.
b)	294-9120.00-00067	6.6 - 6.9 mm	13 mm	tool-less	10 pcs.



Fastener with insert Phillips H2, with leaf spring

	Part Number	Clamping range (S)	Dimension X	Installation type	Delivery Unit
a)	294-9113.00-00017	1.5 - 2.0 mm	11 mm	tool-less	10 pcs.
a)	294-9113.00-00026	2.5 - 2.8 mm	11 mm	tool-less	10 pcs.
a)	294-9113.00-00030	2.9 - 3.2 mm	11 mm	tool-less	10 pcs.
a)	294-9113.00-00034	3.3 - 3.6 mm	11 mm	tool-less	10 pcs.
a)	294-9113.00-00042	4.1 - 4.4 mm	11 mm	tool-less	10 pcs.
b)	294-9119.00-00037	3.5 - 4.0 mm	13 mm	tool-less	10 pcs.
b)	294-9119.00-00046	4.5 - 4.8 mm	13 mm	tool-less	10 pcs.
b)	294-9119.00-00050	4.9 - 5.2 mm	13 mm	tool-less	10 pcs.
b)	294-9119.00-00054	5.3 - 5.6 mm	13 mm	tool-less	10 pcs.
b)	294-9119.00-00062	6.1 - 6.4 mm	13 mm	tool-less	10 pcs.





Advantages

- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 9.5.
- Meets machinery directive 2006/42EC.
- After pre-assembly no losing, dropping or misplacing possible.
- Held securely in the cutout.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- Tool-less installation.
- Operation by Phillips H2, opening by a ¼ turn of the insert.
- One-piece.

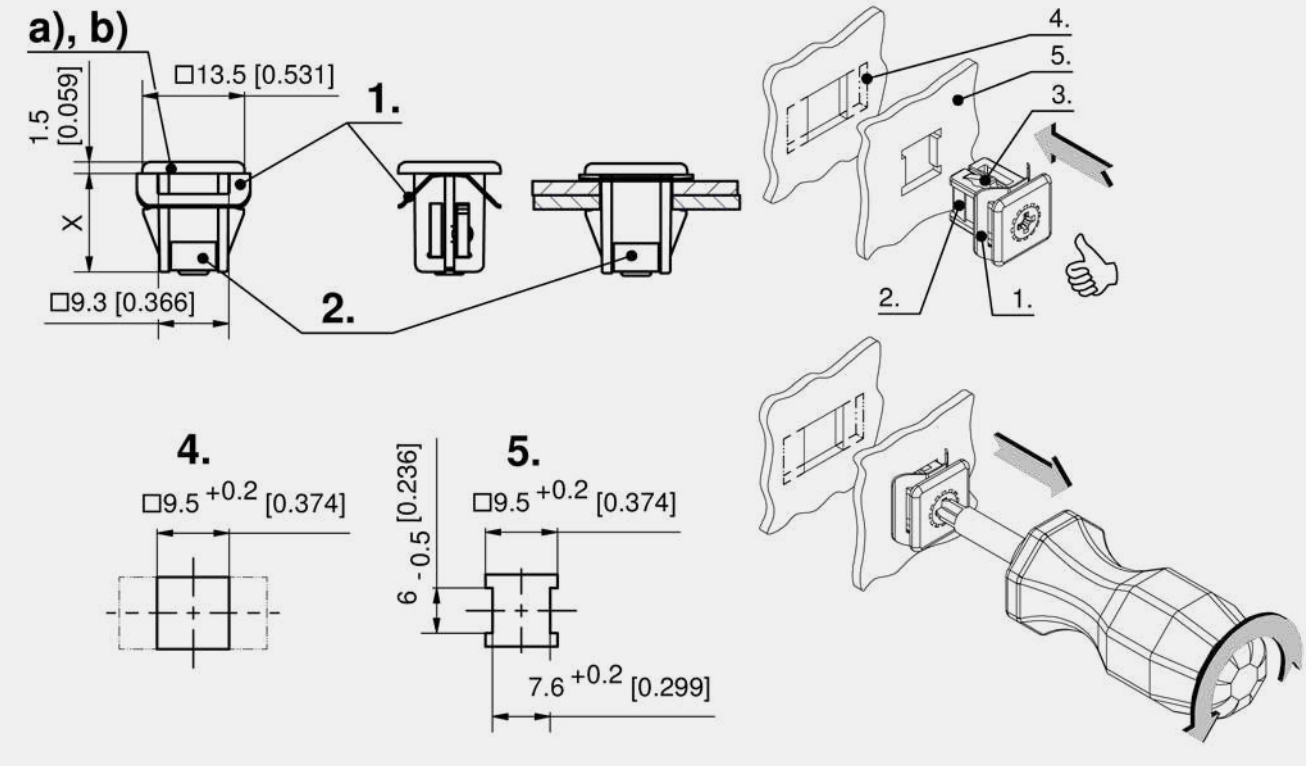
Materials

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel, zinc plated
- Insert:** aluminum, hardened
- Springs:** spring steel

Remarks

Removal: by turning the screwdriver counterclockwise, 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 in the rear panel can also be an oblong hole for tolerance adjustment. (5.) Cutout front panel.

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener with insert Phillips H2

	Part Number	Clamping range (S)	Dimension X	Installation type	Delivery Unit
a)	294-9112.00-00017	1.5 - 2.0 mm	11 mm	tool-less	10 pcs.
a)	294-9112.00-00026	2.5 - 2.8 mm	11 mm	tool-less	10 pcs.
a)	294-9112.00-00030	2.9 - 3.2 mm	11 mm	tool-less	10 pcs.
a)	294-9112.00-00034	3.3 - 3.6 mm	11 mm	tool-less	10 pcs.
a)	294-9112.00-00042	4.1 - 4.4 mm	11 mm	tool-less	10 pcs.
b)	294-9118.00-00037	3.5 - 4.0 mm	13 mm	tool-less	10 pcs.
b)	294-9118.00-00046	4.5 - 4.8 mm	13 mm	tool-less	10 pcs.
b)	294-9118.00-00050	4.9 - 5.2 mm	13 mm	tool-less	10 pcs.
b)	294-9118.00-00054	5.3 - 5.6 mm	13 mm	tool-less	10 pcs.
b)	294-9118.00-00062	6.1 - 6.4 mm	13 mm	tool-less	10 pcs.



Advantages

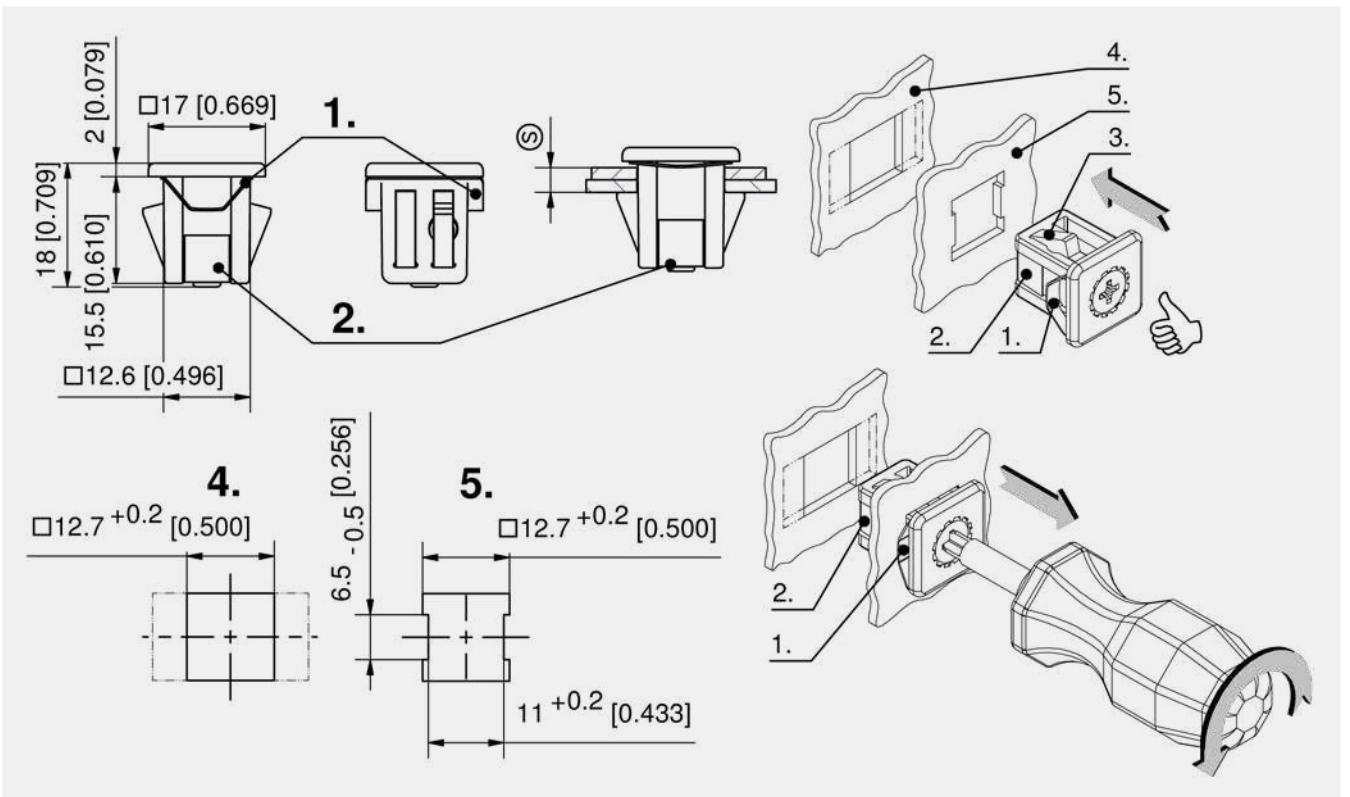
- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 12.7.
- Meets machinery directive 2006/42EC.
- After pre-assembly no losing, dropping or misplacing possible.
- Vibration-proof according to DIN EN 61373.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Tool-less installation.
- Operation by Phillips H2, opening by a ¼ turn of the insert.
- The joining of metal sheets is achieved by pressing the fastener into the cutouts.

Materials

- Housing:** zinc die, untreated
- Snap wedges:** sintered steel, zinc plated
- Insert:** aluminum, hardened
- Springs:** spring steel

Remarks

Removal: by turning the screwdriver counterclockwise, 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 in the rear panel can also be an oblong hole for tolerance adjustment. (5.) Cutout front panel. The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener with insert Phillips H2

	Part Number	Clamping range (S)	Installation type	Delivery Unit
	294-9103.00-00021	1.4 - 1.9 mm	tool-less	10 pcs.
	294-9103.00-00031	2.4 - 2.9 mm	tool-less	10 pcs.
	294-9103.00-00036	2.9 - 3.4 mm	tool-less	10 pcs.
	294-9103.00-00041	3.4 - 3.9 mm	tool-less	10 pcs.
	294-9103.00-00046	3.9 - 4.4 mm	tool-less	10 pcs.
	294-9103.00-00056	4.9 - 5.4 mm	tool-less	10 pcs.
	294-9103.00-00061	5.4 - 5.9 mm	tool-less	10 pcs.
	294-9103.00-00066	5.9 - 6.4 mm	tool-less	10 pcs.





Advantages

- With DIRAK-SNAP-Technology for joining of flat metal sheets and securely latching doors and covers.
- For cutout □ 18.7.
- Meets machinery directive 2006/42EC.
- After pre-assembly the concern of losing, dropping or misplacing hardware is eliminated.
- Vibration-proof.
- Tool-less installation.
- Pressed into the front panel (sheet thickness max. 3mm) and permanently secured by the U-shaped spring (1.).
- Can be disconnected from the rear panel from the front with the tool for uninstallation 292-0312.83-00000.
- One-piece.

Materials

- Housing and Snap wedges:** zinc die, zinc plated
- U-shaped spring:** 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.

The (S) dimension indicates the total thickness of the sheet metal panels.



Advantages

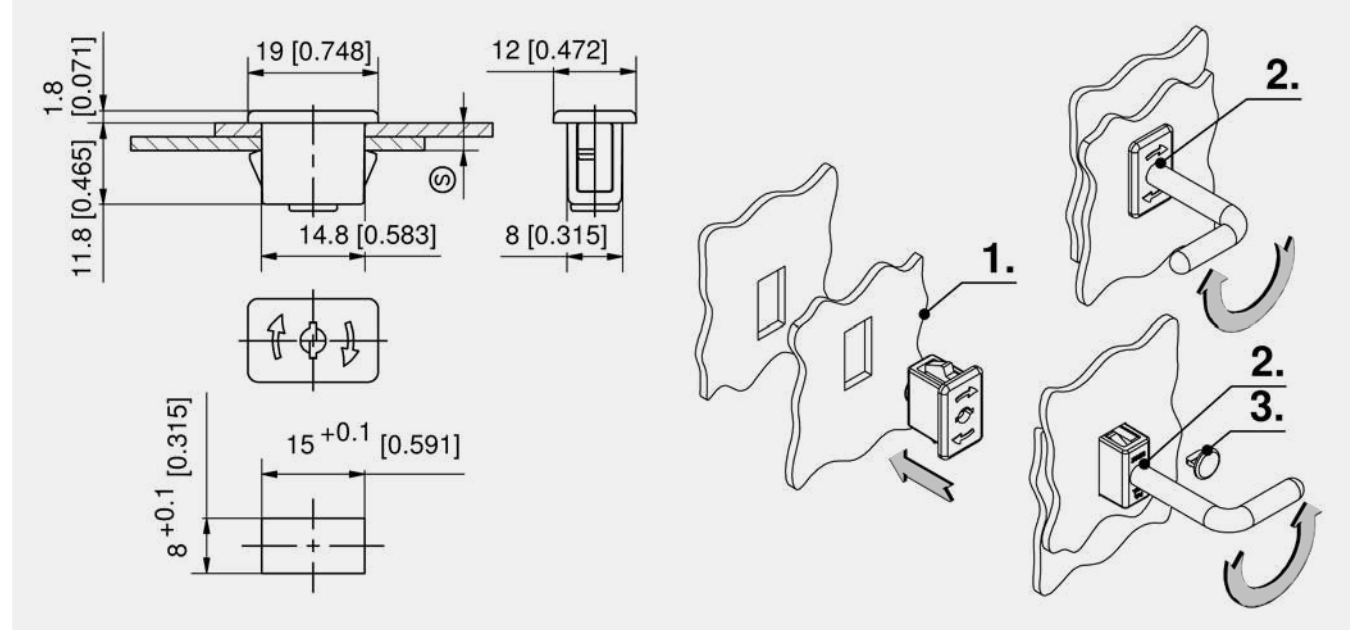
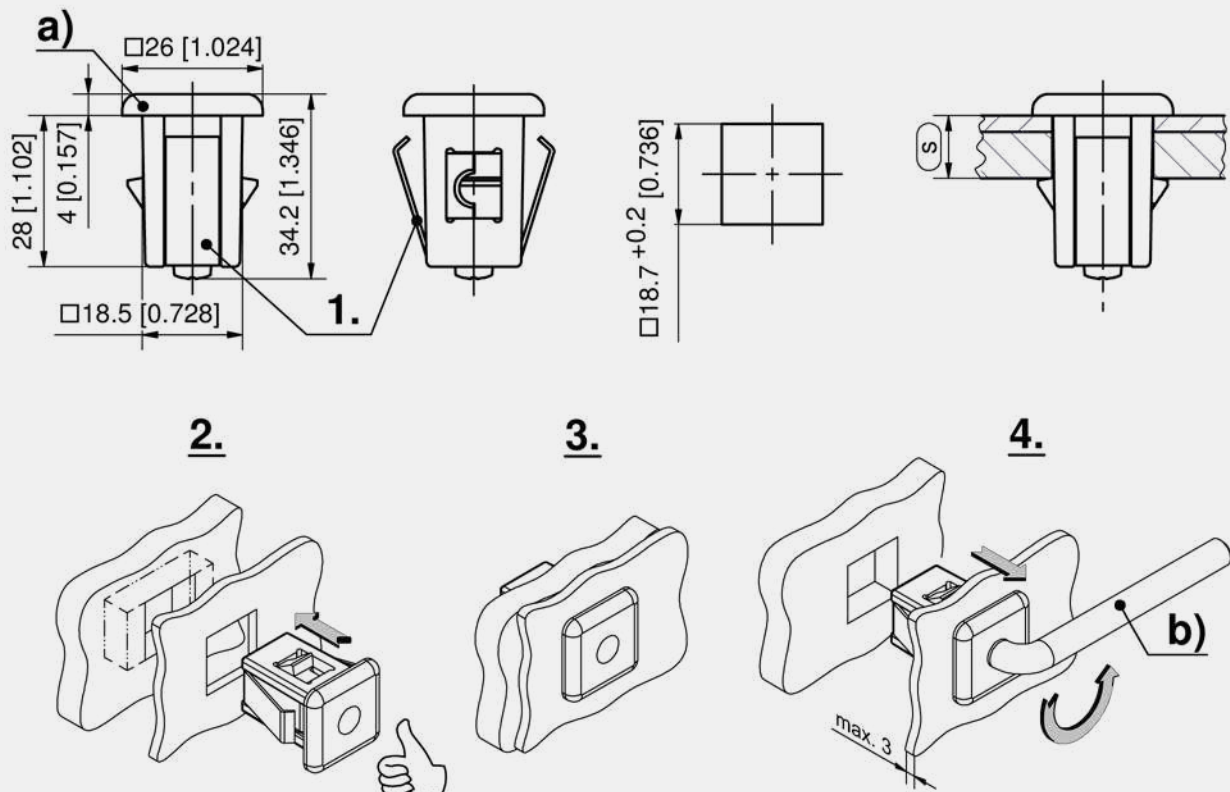
- With DIRAK-SNAP-Technology for joining metal sheets.
- For cutout 8x15.
- Vibration-proof.
- Tool-less installation.
- The joining of metal sheets is achieved by pressing the fastener into the cutouts.
- With tool Part-No.: 292-0302.70 this fastener can be disconnected both from inside (after removal of the red plug) and from the outside.
- The tool is captive in the open position.

Materials

- Housing:** PA, black or light grey, RAL 7035
- Snap wedges:** Grivory, black

Remarks

1. installation
 2. disassembly
 3. disassemble red plug
- 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

Part Number	Clamping range (S)	Installation type	Delivery Unit
a) 294-8004.00-00001	11.5 - 11.8 mm	tool-less	10 pcs.

Accessories			
b) 764	292-0312.83-00000	Tool for uninstallation	

Fastener, PA

Part Number	Surface	Clamping range (S)	Installation type	Delivery Unit
294-9001.00-00015	black	1.5 - 1.8 mm	tool-less	10 pcs.
294-9001.00-00020	black	2.0 - 2.3 mm	tool-less	10 pcs.
294-9001.00-00030	black	3.0 - 3.3 mm	tool-less	10 pcs.
294-9001.00-00040	black	4.0 - 4.3 mm	tool-less	10 pcs.
294-9002.00-00015	light grey RAL 7035	1.5 - 1.8 mm	tool-less	10 pcs.
294-9002.00-00020	light grey RAL 7035	2.0 - 2.3 mm	tool-less	10 pcs.
294-9002.00-00030	light grey RAL 7035	3.0 - 3.3 mm	tool-less	10 pcs.
294-9002.00-00040	light grey RAL 7035	4.0 - 4.3 mm	tool-less	10 pcs.

Accessories	
764	292-0302.70-00000 Tool for uninstallation





Advantages

- With DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout 30x10.
- Tool-less installation.
- Simple clip-in into its cutouts.
- Vibration-proof.

Materials

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

Remarks

- 1. installation
- The (S) dimension indicates the total thickness of the sheet metal panels.



Advantages

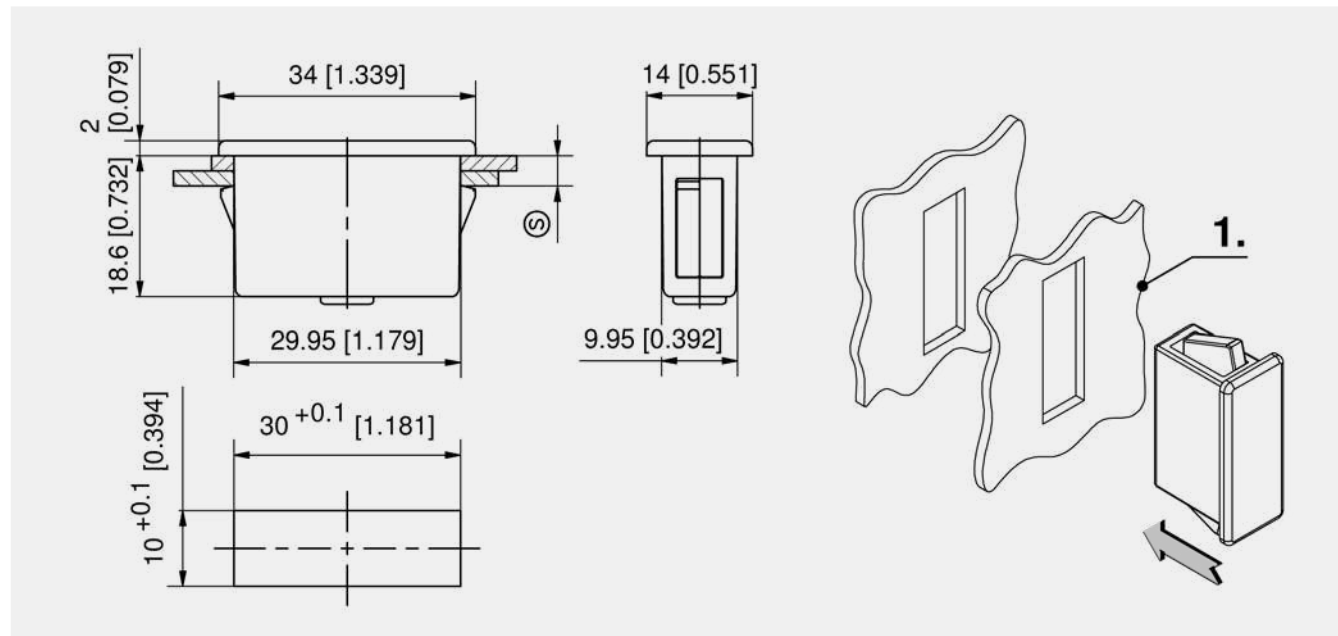
- With DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout 30x14.
- Tool-less installation.
- Simple clip-in into its cutouts.
- The riveted grounding clip assures an electrical connection between the sheets and the fastener itself.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- The teeth of the riveted grounding clip penetrate the painted edge of the cutouts.
- By using the tool for un-installation 292-0311.15 a disassembly from the front is possible.

Materials

- **Housing:** zinc die, black
- **Snap wedges:** sintered steel, zinc plated
- **Grounding clip:** stainless steel

Remarks

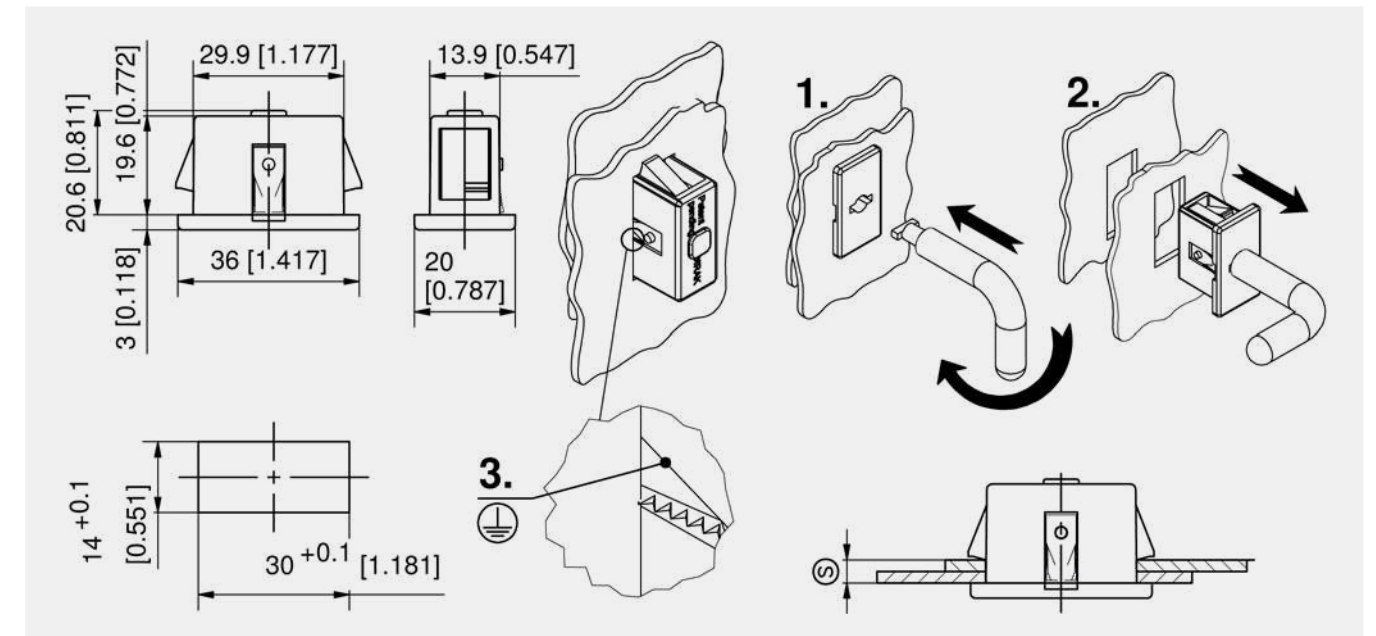
- 1. and 2. un-installation
- 3. grounding clip
- The (S) dimension indicates the total thickness of the sheet metal panels



Fastener

Part Number	Clamping range (S)	Installation type	Delivery Unit
294-9106.00-00040	3.7 - 4.2 mm	tool-less	10 pcs.
294-9106.00-00045	4.2 - 4.7 mm	tool-less	10 pcs.
294-9106.00-00050	4.7 - 5.2 mm	tool-less	10 pcs.
294-9106.00-00055	5.2 - 5.7 mm	tool-less	10 pcs.
294-9106.00-00060	5.7 - 6.2 mm	tool-less	10 pcs.
294-9106.00-00080	7.7 - 8.2 mm	tool-less	10 pcs.

Accessories	
764	292-0306.80-02530 Tool for un-installation
762	292-0401.00-03010 Cutout-cover
763	292-0702.15-01030 Reinforcement plate for cutout



Fastener

Part Number	Clamping range (S)	Installation type	Delivery Unit
294-9003.00-00034	3.0 - 3.7 mm	tool-less	10 pcs.
294-9003.00-00043	4.0 - 4.5 mm	tool-less	10 pcs.
294-9003.00-00052	5.0 - 5.5 mm	tool-less	10 pcs.
294-9003.00-00063	6.0 - 6.5 mm	tool-less	10 pcs.

Accessories	
764	292-0311.15-00000 Tool for un-installation
762	292-0402.00-03014 Cutout-cover





Advantages

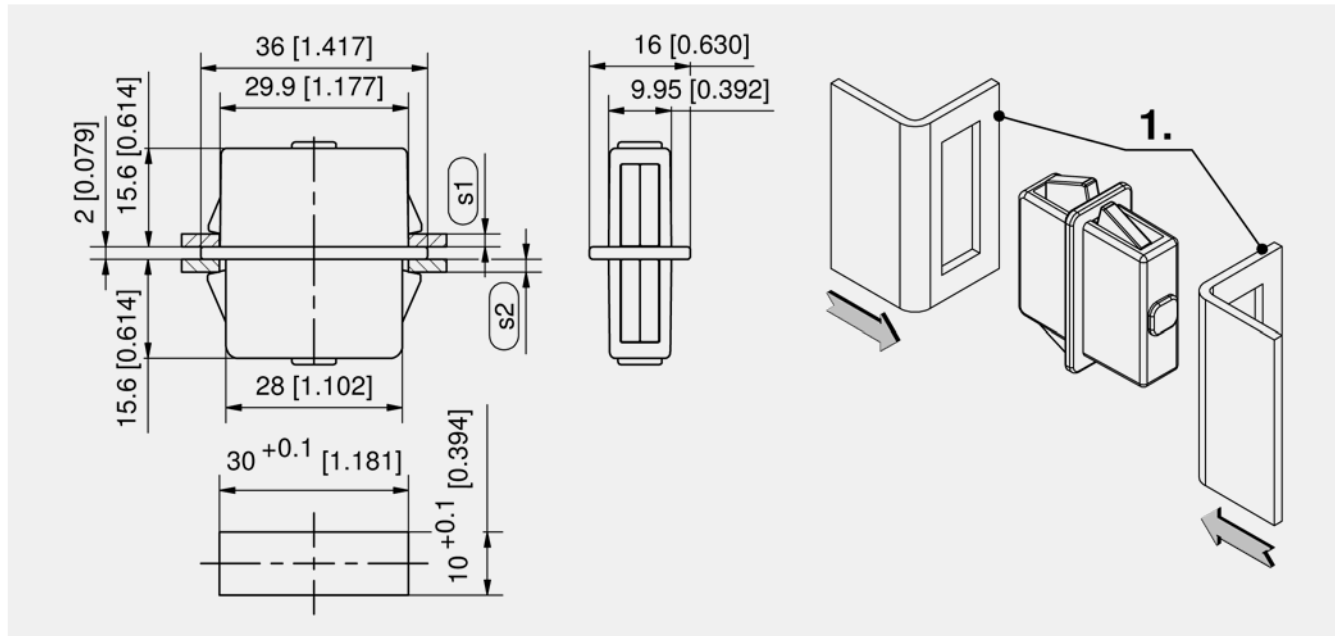
- With DIRAK-SNAP-Technology for joining flat metal sheets.
- For cutout 30x10.
- Tool-less installation.
- In order to provide a tolerance for installation, one half of the housing is just 28mm long.
- Vibration-proof.

Materials

- **Housing:** zinc die, black or PA black
- **Snap wedges:** sintered steel, zinc plated

Remarks

1. installation



Fastener, black

Part Number	Material	Clamping range (S)	Clamping range (S) 2	Installation type	Delivery Unit
294-9102.52-10010	PA	0.7 - 1.2 mm	0.7 - 1.2 mm	tool-less	10 pcs.
294-9102.52-20020	PA	1.7 - 2.2 mm	1.7 - 2.2 mm	tool-less	10 pcs.
294-9102.52-15015	PA	1.2 - 1.7 mm	1.2 - 1.7 mm	tool-less	10 pcs.
294-9102.52-25025	PA	2.2 - 2.7 mm	2.2 - 2.7 mm	tool-less	10 pcs.
294-9102.52-30030	PA	2.7 - 3.2 mm	2.7 - 3.2 mm	tool-less	10 pcs.
294-9107.33-10010	zinc die	0.7 - 1.2 mm	0.7 - 1.2 mm	tool-less	10 pcs.
294-9107.33-15015	zinc die	1.2 - 1.7 mm	1.2 - 1.7 mm	tool-less	10 pcs.
294-9107.33-20020	zinc die	1.7 - 2.2 mm	1.7 - 2.2 mm	tool-less	10 pcs.
294-9107.33-25025	zinc die	2.2 - 2.7 mm	2.2 - 2.7 mm	tool-less	10 pcs.
294-9107.33-30030	zinc die	2.7 - 3.2 mm	2.7 - 3.2 mm	tool-less	10 pcs.

Accessories	
764	292-0306.80-02530 Tool for uninstallation
762	292-0401.00-03010 Cutout-cover
763	292-0702.15-01030 Reinforcement plate for cutout



Hinges Pr01 180° with Grounding Countersunk Screw

See from page 509-510

Grounding Countersunk Screw

See page 752





Advantages

- With DIRAK-SNAP-Technology for a one-sided fixed and a one-sided detachable connection.
- For cutout 30x10.
- The width of the cutout can be enlarged for adjusting.
- Installation in closed profiles.
- Various fastening options e.g. with countersunk screws.
- The fastener can be installed in a recessed mounting position for flush applications.

Materials

Fastener and snap wedges: AISI 304

Remarks

- F = pull-off force
- cutout for detachable side / tolerance dimension
 - e.g. sheet metal
 - e.g. wood



Advantages

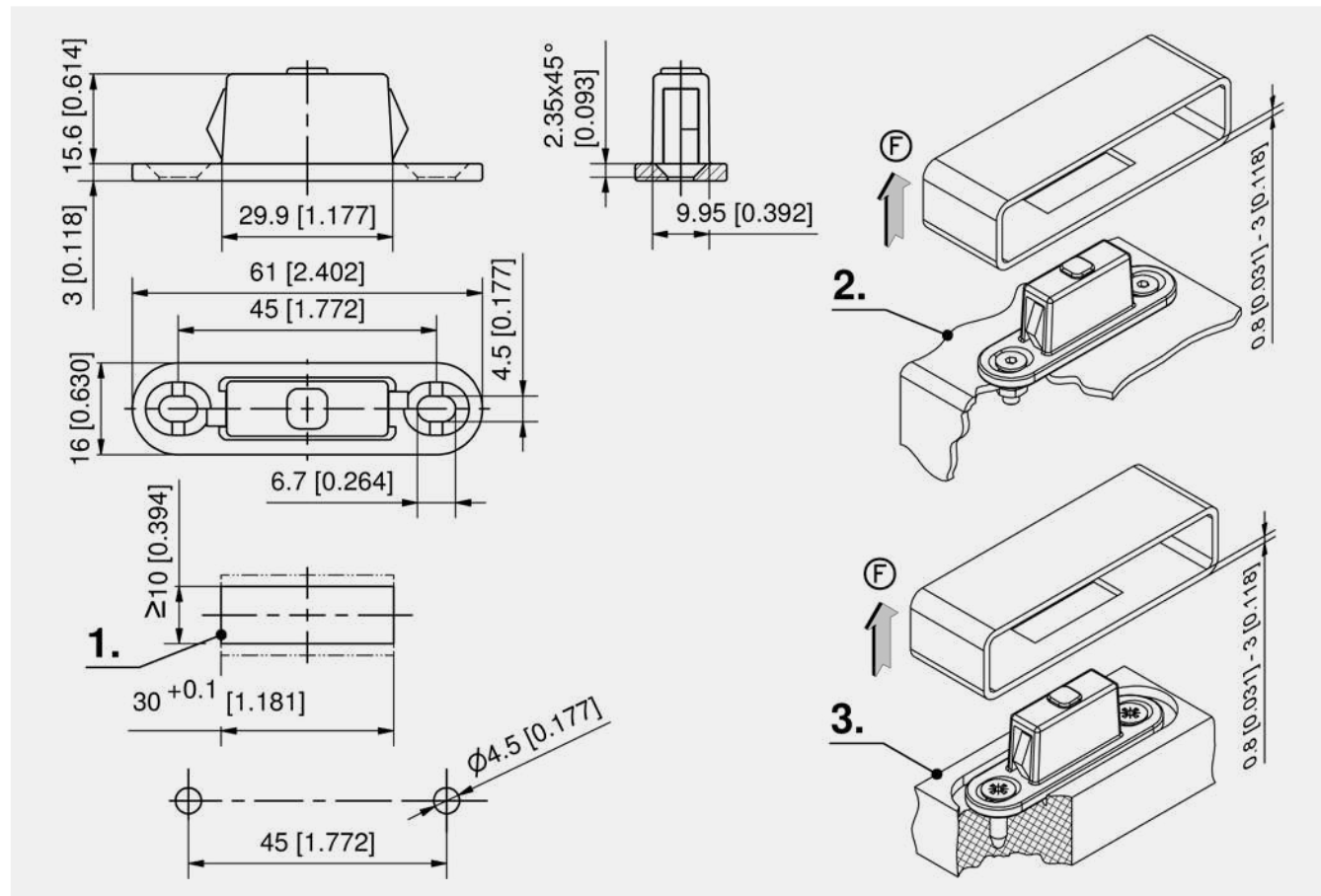
- With DIRAK-SNAP-Technology for a one-sided fixed and a one-sided detachable connection.
- For cutout 30x10.
- The width of the cutout can be enlarged for adjusting.
- Blind assembly in closed profiles.
- Vibration-proof.
- The fastener can be screwed on for flush applications in a recess (metal sheet / wood)

Materials

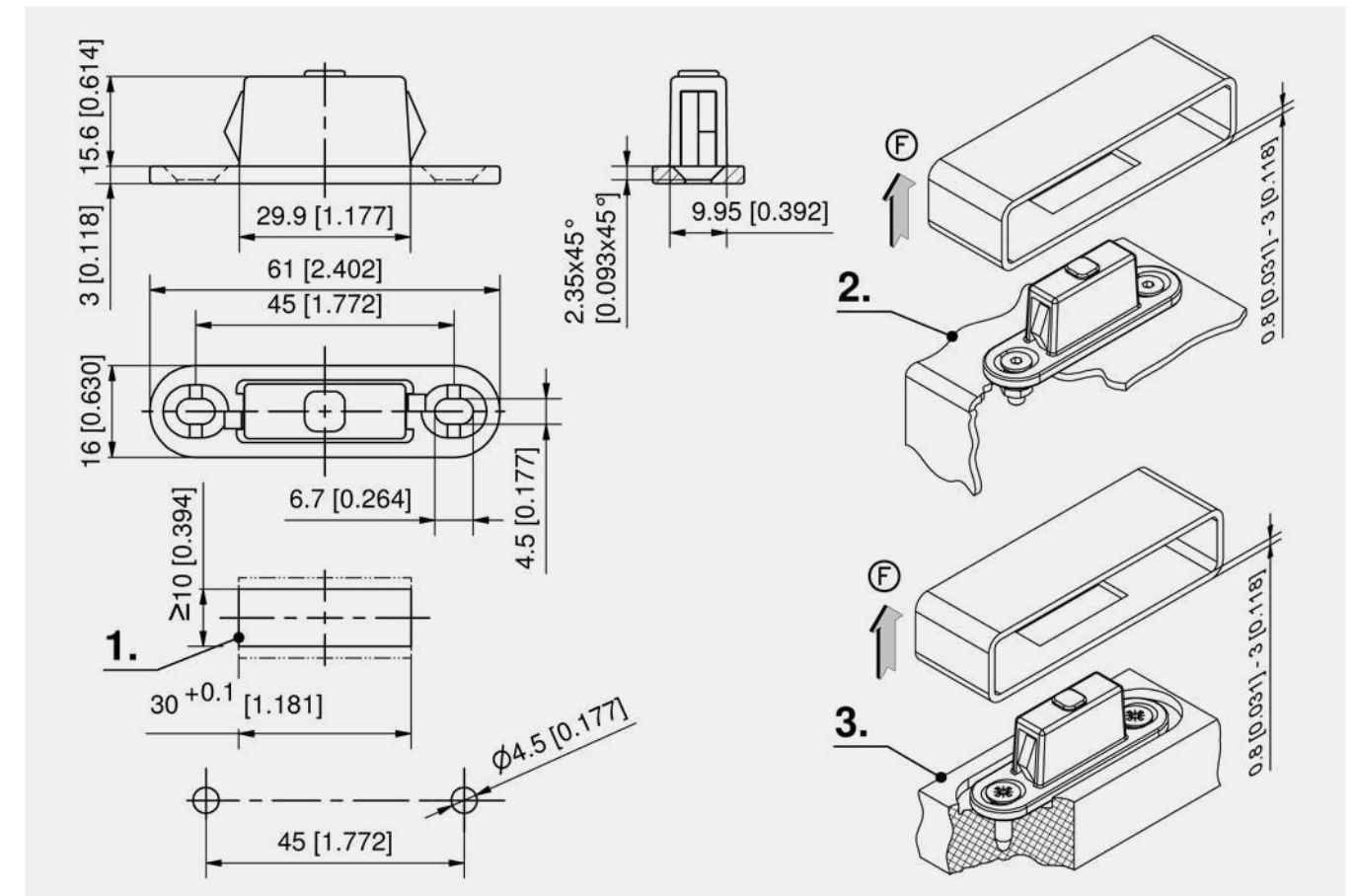
Fastener: zinc die, black
Snap wedges: sintered steel, zinc plated

Remarks

- F = pull-off force
- Fastening with countersunk screws M4 or wood screws.
- cutout for detachable side / tolerance dimension
 - e.g. sheet metal
 - e.g. wood



Part Number	Version	Pull-off force	Clamping range (S)	Countersunk screws	Installation type	Delivery Unit
295-9003.00-00005	one removable side	~50N	0.8 - 3.0 mm	for Ø4.5mm hole diameter	tool-less / screw-on	10 pcs.



Part Number	Clamping range (S)	Pull-off force	Installation type	Delivery Unit
295-9002.00-00001	0.8 - 3.0 mm	~15N	tool-less / screw-on	10 pcs.
295-9002.00-00003	0.8 - 3.0 mm	~30N	tool-less / screw-on	10 pcs.
295-9002.00-00005	0.8 - 3.0 mm	~50N	tool-less / screw-on	10 pcs.





Advantages

- With DIRAK-SNAP-Technology has one fixed side and one detachable side.
- Application for double-walled or bended non-sealed doors and side panels.
- The cutout for the fixed side is 30x10mm.
- For the detachable side a cut-out of 28x10mm to 30x16mm is possible.
- Tool-less installation.
- Vibration-proof.
- The DUAL fastener keep the door in position and prevent vibration of the door.

Materials

- Dual Fastener:** PA, black or zinc die, black
- Snap wedges:** sintered steel, zinc plated

Remarks

- installed
 - removed
 - cutout for fixed side
 - cutout for detachable side / tolerance dimension
 - possible misalignment of the 2 cutouts
- The sheet thicknesses (S) can be designed differently.
F = pull-off force

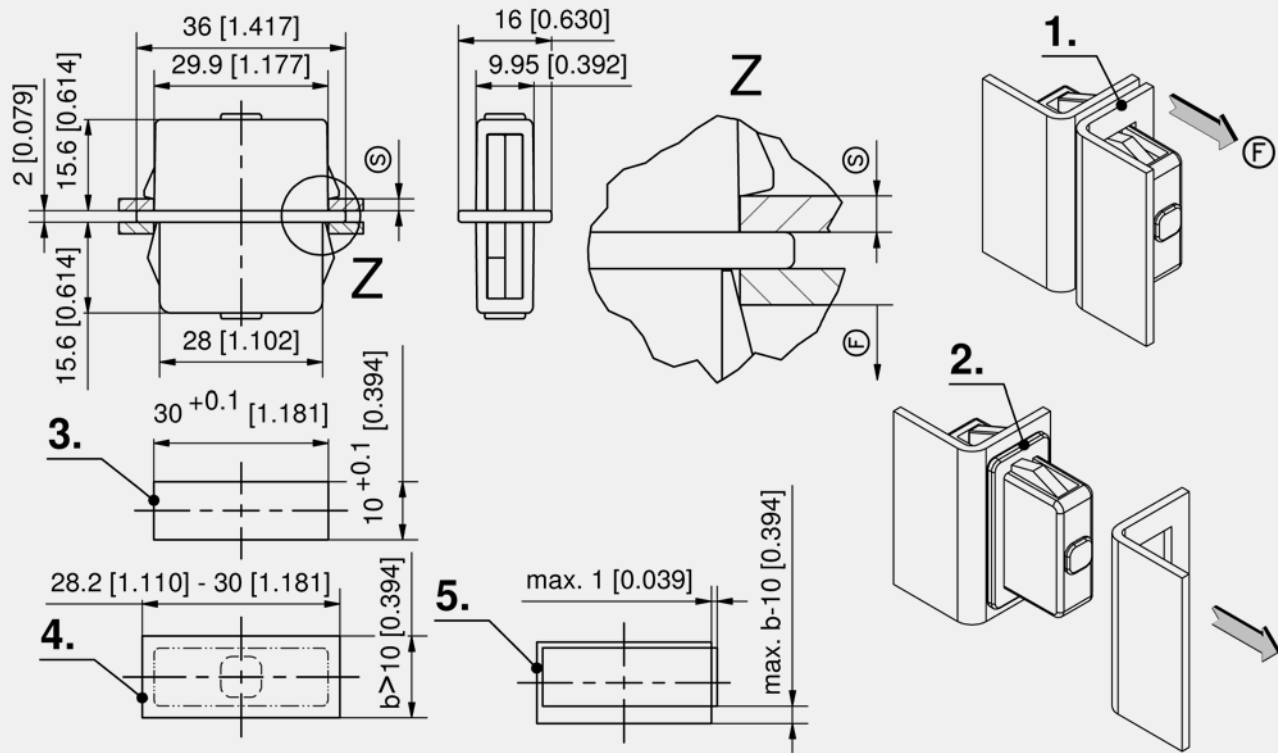
Fastener, zinc die, black

Part Number	Clamping range (S)	Pull-off force	Installation type	Delivery Unit
295-9001.33-10001	0.7 - 1.2 mm	-15N	tool-less	10 pcs.
295-9001.33-10003	0.7 - 1.2 mm	-30N	tool-less	10 pcs.
295-9001.33-10005	0.7 - 1.2 mm	-50N	tool-less	10 pcs.
295-9001.33-15001	1.2 - 1.7 mm	-15N	tool-less	10 pcs.
295-9001.33-15003	1.2 - 1.7 mm	-30N	tool-less	10 pcs.
295-9001.33-15005	1.2 - 1.7 mm	-50N	tool-less	10 pcs.
295-9001.33-20001	1.7 - 2.2 mm	-15N	tool-less	10 pcs.
295-9001.33-20003	1.7 - 2.2 mm	-30N	tool-less	10 pcs.
295-9001.33-20005	1.7 - 2.2 mm	-50N	tool-less	10 pcs.
295-9001.33-25001	2.2 - 2.7 mm	-15N	tool-less	10 pcs.
295-9001.33-25003	2.2 - 2.7 mm	-30N	tool-less	10 pcs.
295-9001.33-25005	2.2 - 2.7 mm	-50N	tool-less	10 pcs.
295-9001.33-30001	2.7 - 3.2 mm	-15N	tool-less	10 pcs.
295-9001.33-30003	2.7 - 3.2 mm	-30N	tool-less	10 pcs.
295-9001.33-30005	2.7 - 3.2 mm	-50N	tool-less	10 pcs.

Fastener, PA, black

Part Number	Clamping range (S)	Pull-off force	Installation type	Delivery Unit
295-9001.52-10001	0.7 - 1.2 mm	-15N	tool-less	10 pcs.
295-9001.52-10003	0.7 - 1.2 mm	-30N	tool-less	10 pcs.
295-9001.52-10005	0.7 - 1.2 mm	-50N	tool-less	10 pcs.
295-9001.52-15001	1.2 - 1.7 mm	-15N	tool-less	10 pcs.
295-9001.52-15003	1.2 - 1.7 mm	-30N	tool-less	10 pcs.
295-9001.52-15005	1.2 - 1.7 mm	-50N	tool-less	10 pcs.
295-9001.52-20001	1.7 - 2.2 mm	-15N	tool-less	10 pcs.
295-9001.52-20003	1.7 - 2.2 mm	-30N	tool-less	10 pcs.
295-9001.52-20005	1.7 - 2.2 mm	-50N	tool-less	10 pcs.
295-9001.52-25001	2.2 - 2.7 mm	-15N	tool-less	10 pcs.
295-9001.52-25003	2.2 - 2.7 mm	-30N	tool-less	10 pcs.
295-9001.52-25005	2.2 - 2.7 mm	-50N	tool-less	10 pcs.
295-9001.52-30001	2.7 - 3.2 mm	-15N	tool-less	10 pcs.
295-9001.52-30003	2.7 - 3.2 mm	-30N	tool-less	10 pcs.
295-9001.52-30005	2.7 - 3.2 mm	-50N	tool-less	10 pcs.

Accessories	
764	292-0306.80-02530 Tool for uninstallation
762	292-0401.00-03010 Cutout-cover
763	292-0702.15-01030 Reinforcement plate for cutout





Advantages

- Impossible to rotate 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 fitted square.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.
- Clamping range 1-4mm.
- For cutouts □9.5 and □9.2mm.
- Suitable for high torque and high tensile forces of up to 8 nm.

Materials

- **Cage:** PA, black
- **Nut:** steel, zinc plated white

Remarks

Installation description (1. - 6.) see www.DIRAK.com
 a) + b) configure the cage a) with the nut b).
 c) cages and nuts are packed pre-assembled per 100 in a bag.



Advantages

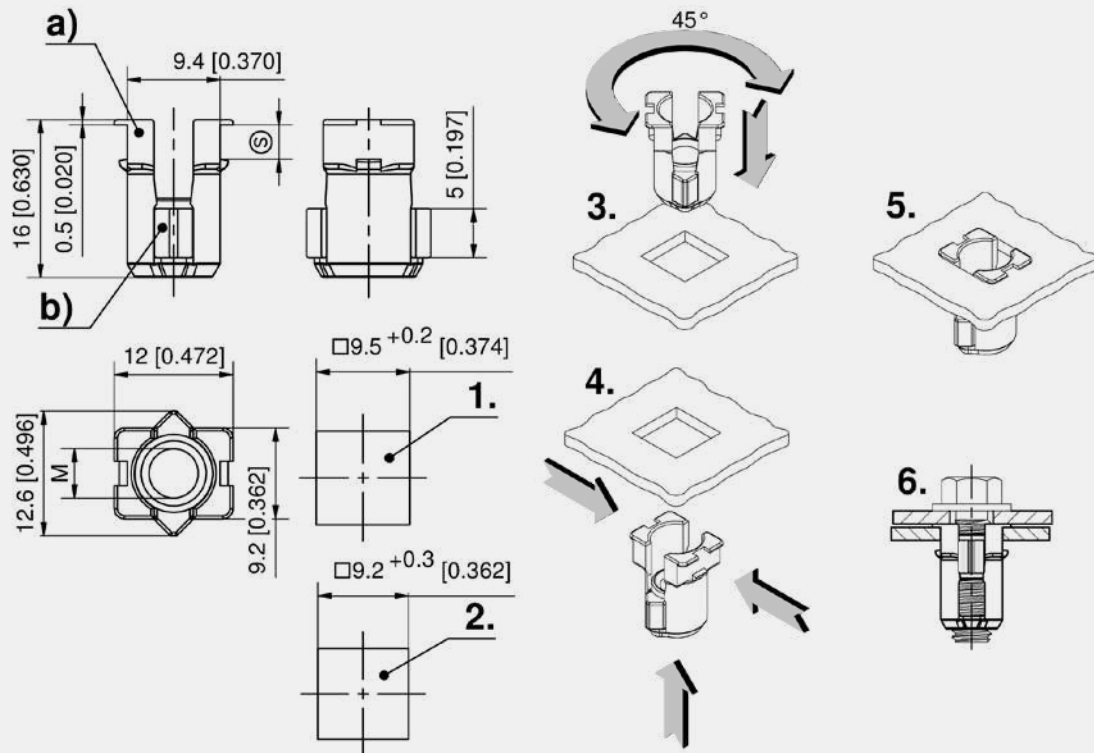
- For the secure joining of metal sheets.
- With grounding nut M6.
- Tested according to DIN EN 61439-1 (VDE 0660 part 600): 2012-06.
- Can be installed in the cutout without tools from the front as well as from behind.
- Secure fit of the cage in the cutout through fitted square.
- For cutouts □9.5 and □9.2mm.
- Suitable for high torque and high tensile force from 3 up to 8 nm.
- Cage and grounding nut packed in bulk.

Materials

- **Cage:** PA, black
- **Grounding nut:** steel, zinc plated white

Remarks

Installation description (1. - 7.) see www.DIRAK.com
Attention: The contact points must be designed in such a way that the contact pressure will not be transferred through the PA cage.
 Configure the cage a) with the grounding nut b).

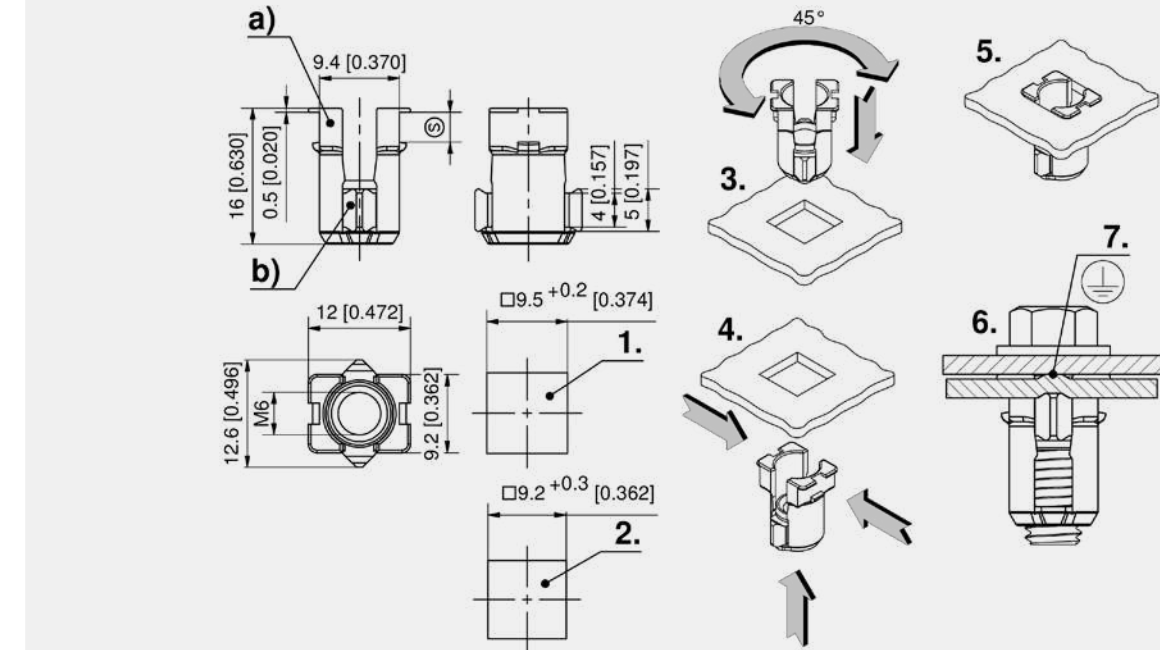


Cage nut, unmounted

	Part Number	Name	Clamping range (S)	Delivery Unit
a)	203-1901.06-00095	Cage for Nut	1 - 4 mm	2000 pcs.
b)	203-1902.15-00006	Nut M6		2000 pcs.

Cage nut, pre-assembled

	Part Number	Thread size	Clamping range (S)	Delivery Unit
c)	203-9002.00-00000	M6	1 - 4 mm	100 pcs.



Cage nut, unmounted

	Part Number	Name	Clamping range (S)	Delivery Unit
a)	203-1901.06-00095	Cage for Nut	1 - 4 mm	2000 pcs.
b)	203-1904.15-00006	Grounding nut M6		2000 pcs.



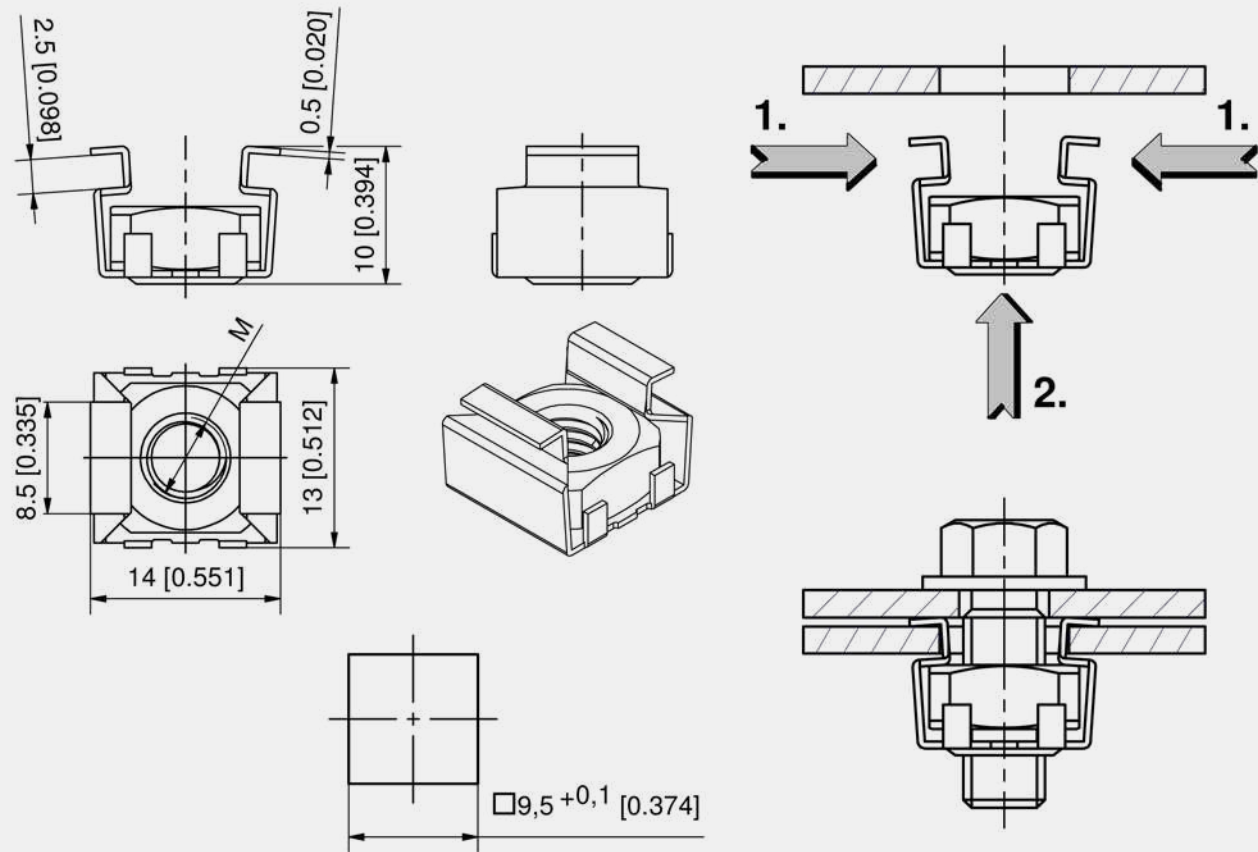


Advantages

- Ensures fixed connection of two metal sheets.
- Easy installation by pressing in square cutouts.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- Seismic-proof according to GR-63-CORE, Issue 4.
- 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	Thread size	Material	Surface	Delivery Unit
359-0250.06-00000	M5	steel	zinc plated	200 pcs.
353-2010.00-00000	M5	AISI 304		200 pcs.
359-0206.06-00000	M6	steel	zinc plated	200 pcs.



Grounding Cage Nut □9,5

See page 747





DIN 61373

RoHS WEEE

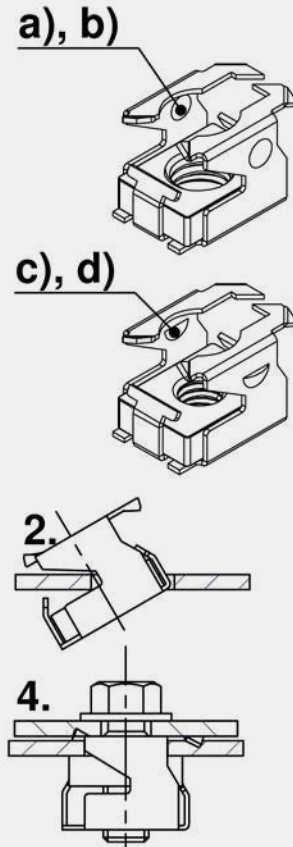
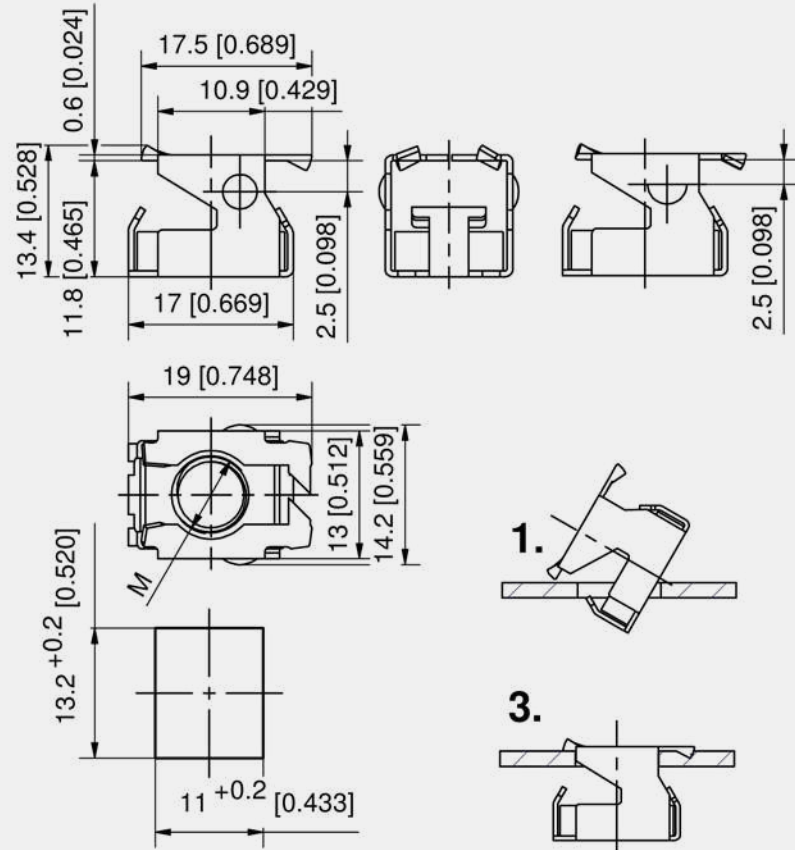


Advantages

- Ensures fixed connection of two metal sheets.
- Easy installation by pressing into square cutouts.
- 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.
- Seismic-proof according to GR-63-CORE, Issue 4.
- Vibration-proof according to DIN EN 61373.

Materials

- Cage and nut:** steel, zinc plated



Cage nuts

	Part Number	Thread size	Delivery Unit
a)	350-2004.00-00000	M8	200 pcs.
b)	350-2005.00-00000	M6	200 pcs.
c)	350-2046.00-00000	M6	200 pcs.
d)	350-2096.00-00000	1/4-20UNC	200 pcs.

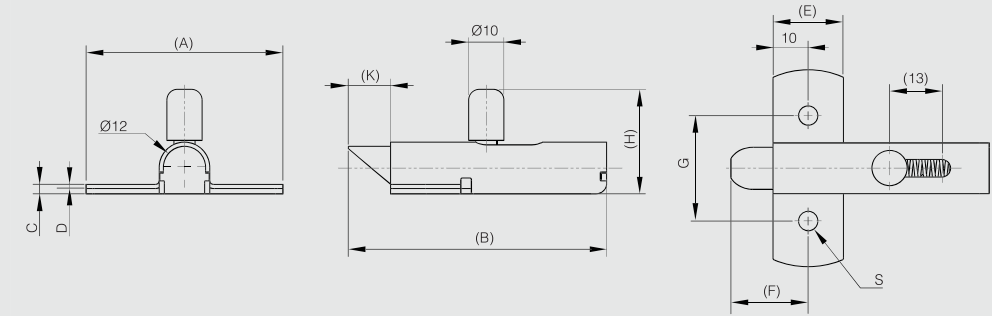


Slam latch in stainless steel - bolt "nose-up"

Stainless steel slam latch.



Part number	Material	Finish	A	B	C	D	E	F	G	H	K	S	Weight (g)
16-1-4265	304 stainless steel	raw	56	73.5	2.7	1.2	20	22	30	29.7	12	5.5	87

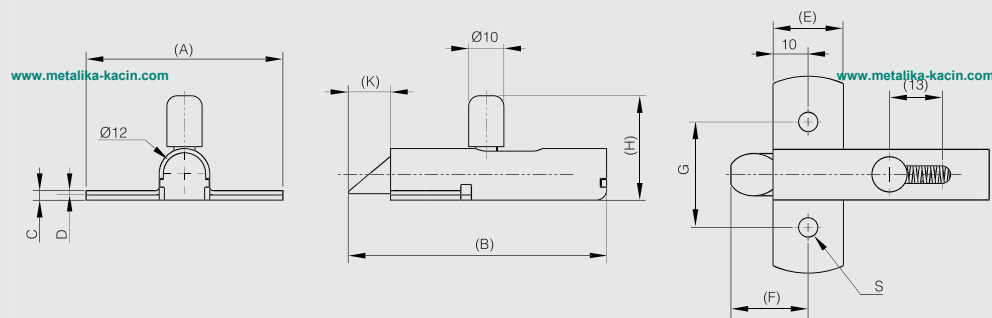


Slam latch in stainless steel - bolt "nose-down"

Stainless steel slam latch.



Part number	Material	Finish	A	B	C	D	E	F	G	H	K	S	Weight (g)
16-1-4282	304 stainless steel	raw	56	73.5	2.7	1.2	20	22	30	29.7	12	5.5	87





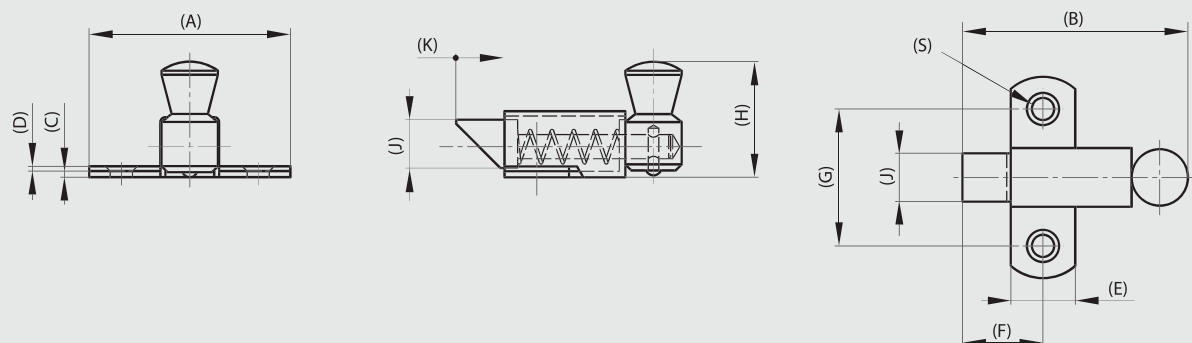
Small slam latches

Springloaded latches - bolt "nose-up"

Slam latches.

BRASS STEEL

Part number	Material	Finish	A	B	C	D	E	F	G	H	J	K	S	Weight (g)
16-1-3625	steel	zinc plated	35	36.5	1.2	1	11	13.5	23	19	8	8	3.5	20
16-1-3626	brass	chrome plated	35	36.5	1.2	1	11	13.5	23	19	8	8	3.5	24
16-1-3628	steel	zinc plated	50	56	1.5	1.2	16	19	34	29.5	12	11	5.5	71
16-1-3629	brass	chrome plated	50	56	1.5	1.2	16	19	34	29.5	12	11	5.5	75
16-1-3631	steel	zinc plated	70	73	2	1.5	22	28	45	38	16	16	7	129
16-1-3632	brass	chrome plated	70	73	2	1.5	22	28	45	38	16	16	7	163

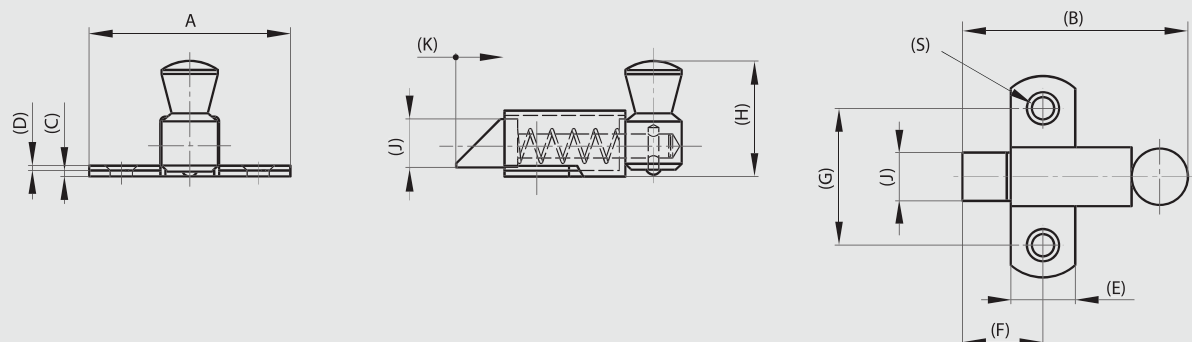


Springloaded latches - bolt "nose-down"

Slam latches.

BRASS STEEL

Part number	Material	Finish	A	B	C	D	E	F	G	H	J	K	S	Weight (g)
16-1-3430	steel	zinc plated	35	36.5	1.2	1	11	13.5	23	19	8	8	3.5	20
16-1-3431	brass	chrome plated	35	36.5	1.2	1	11	13.5	23	19	8	8	3.5	24
16-1-3433	steel	zinc plated	50	56	1.5	1.2	16	20	34	29	12	12	5.5	71
16-1-3434	brass	chrome plated	50	56	1.5	1.2	16	20	34	29	12	12	5.5	75
16-1-3436	steel	zinc plated	70	73	2.0	1.5	22	28	45	38	16	16	7	129
16-1-3437	brass	chrome plated	70	73	2.0	1.5	22	28	45	38	16	16	7	163

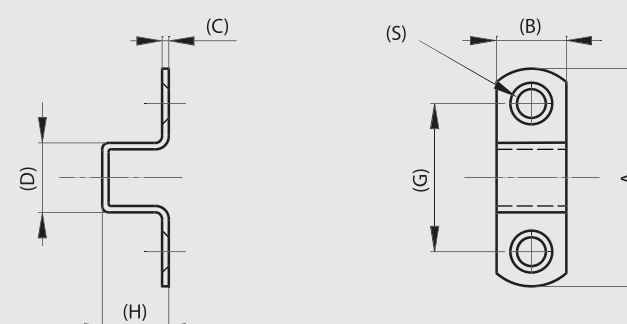


Small slam latches

Strikes for latches with dimension A = 35, 50 and 70 mm

BRASS STEEL

Part number	Material	Finish	A	B	C	D	G	H	S	Weight (g)
16-1-3633	steel	zinc plated	35	11	1.2	11.5	23	11.5	3.5	5
16-1-3634	brass	chrome plated	35	11	1.2	11.5	23	11.5	3.5	5
16-1-3636	steel	zinc plated	50	16	1.5	16	34	16	4.8	12
16-1-3637	brass	chrome plated	50	16	1.5	16	34	16	4.8	13
16-1-3639	steel	zinc plated	68.5	22	2	21	43.5	21	7	32
16-1-3640	brass	chrome plated	68.5	22	2	21	43.5	21	7	33



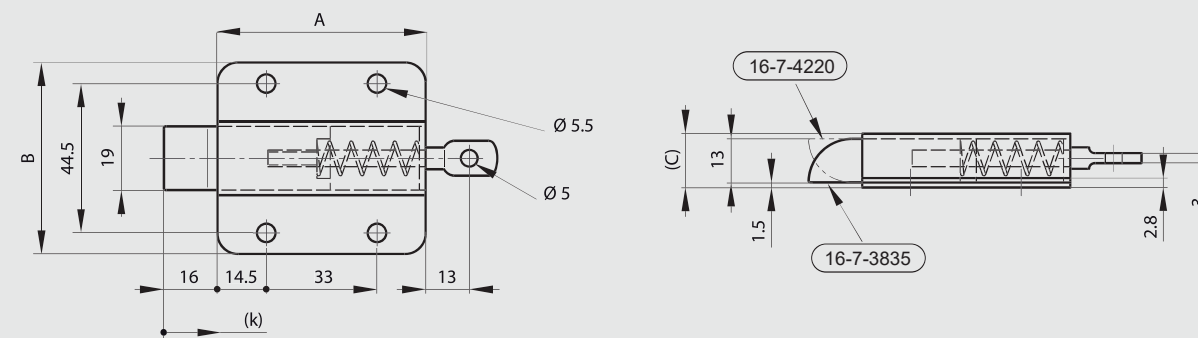
Springloaded bolt - reversible bolt

Slam bolt - reversible.

Bolt can be manually unassembled to be positioned 'nose-up' or 'nose-down'.
Minimum load 50 N for full bolt travel.

STAINLESS STEEL STEEL

Part number	Material	Finish	A	B	C	K	Note	Weight (g)
16-7-4220	steel	zinc plated	63.2	57	17.2	7	bolt delivered 'nose-up'	185
16-7-3835	304 stainless steel	raw	63.2	57	17.2	7	bolt delivered 'nose-down'	185





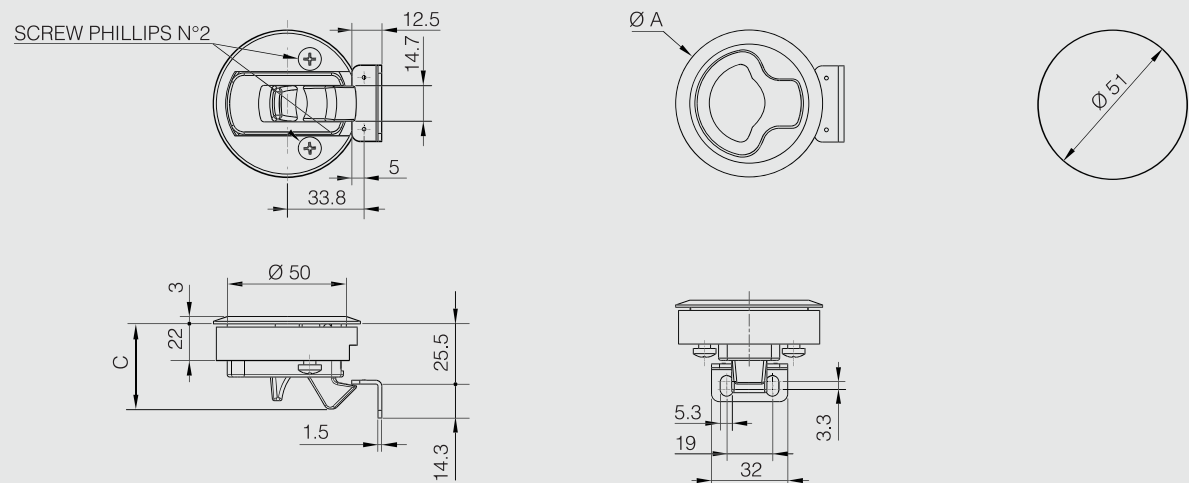
Small slam latches

Low-profile slam latch

Material: UL94-HB ABS.



Part number	Material	Finish	A	C	Weight (g)
16-7-4273	polymer	black	61	35.5	58

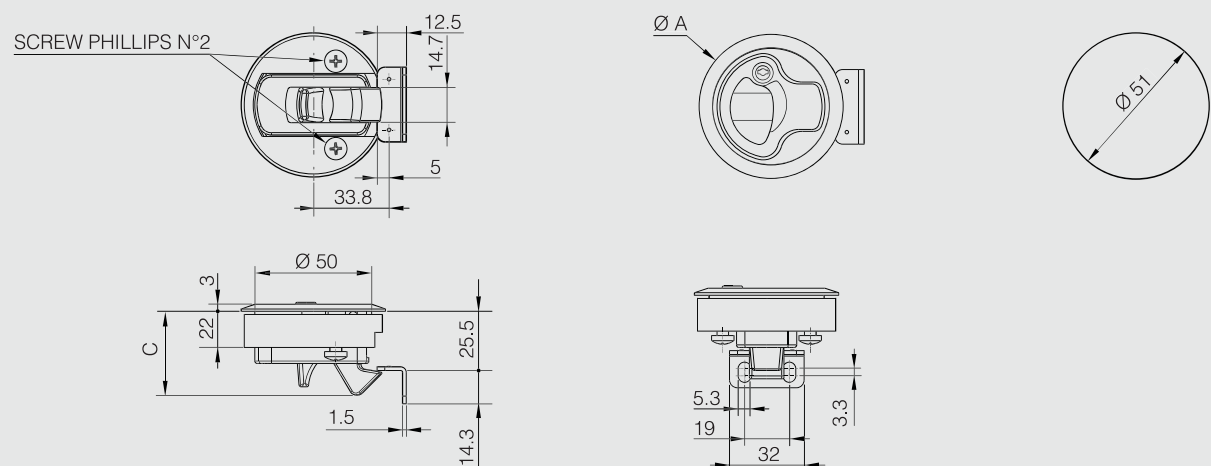


Lockable low-profile slam latch

Material: UL94-HB ABS.



Part number	Material	Finish	A	C	Weight (g)
16-7-4275	polymer	black	61	35.5	58



Paddle latches / hooked cam

Paddle latches 68.5 x 84 mm

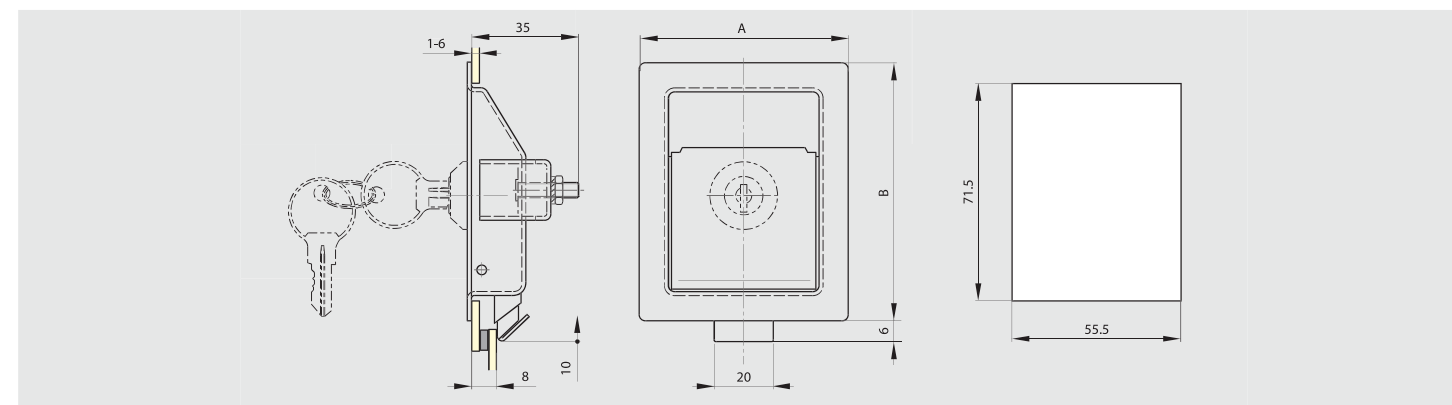
Available with or without key.

Keyed alike for version with cylinder.

Spring in stainless steel.



Part number	Material	Finish	A	B	Note	Weight (g)
16-1-4105	steel	zinc plated	68.5	84	without key	184
16-1-4106	steel	zinc plated	68.5	84	with key	184
16-1-4217	steel	black	68.5	84	without key	184
16-1-4107	304 stainless steel	raw	68.5	84	without key	184
16-1-4108	304 stainless steel	raw	68.5	84	with key	184

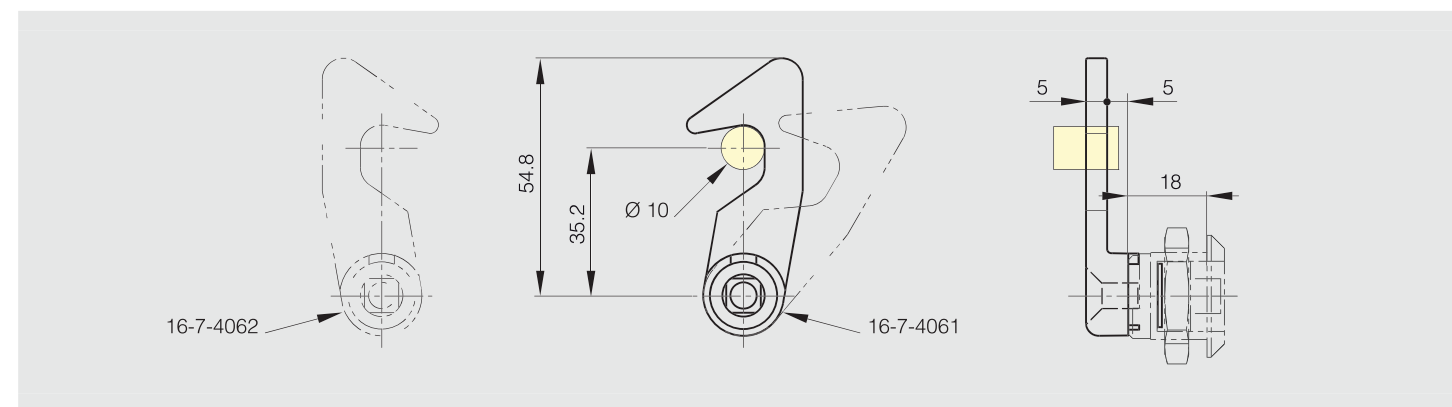


Hooked cam

Hooked cam can be fitted to any standard quarter turn.



Part number	Material	Finish	Note	Weight (g)
16-7-4061	zinc die-cast	zinc plated	right	40
16-7-4062	zinc die-cast	zinc plated	left	40



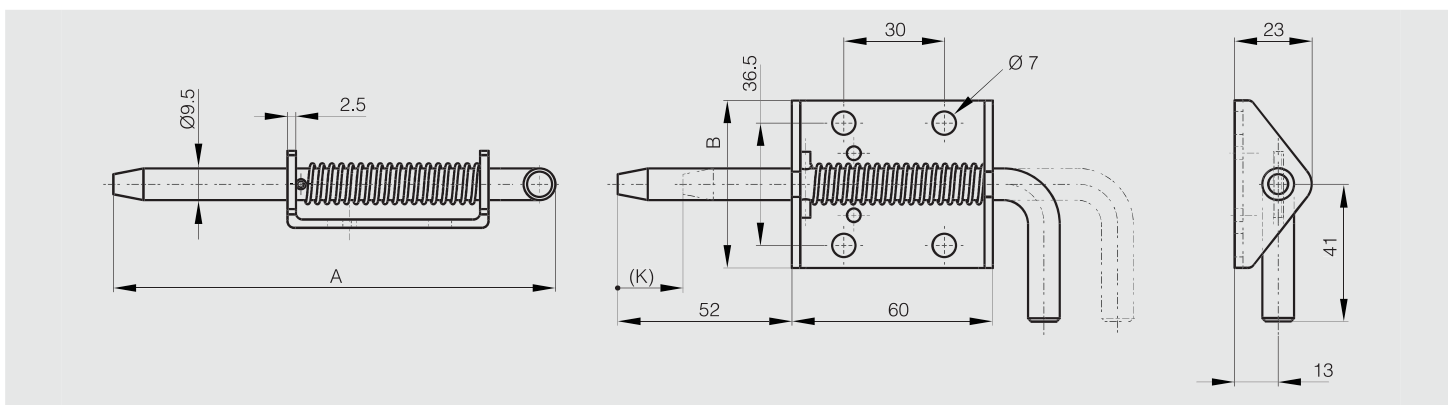


Springloaded bolt

Heavy duty range. No stop when open.



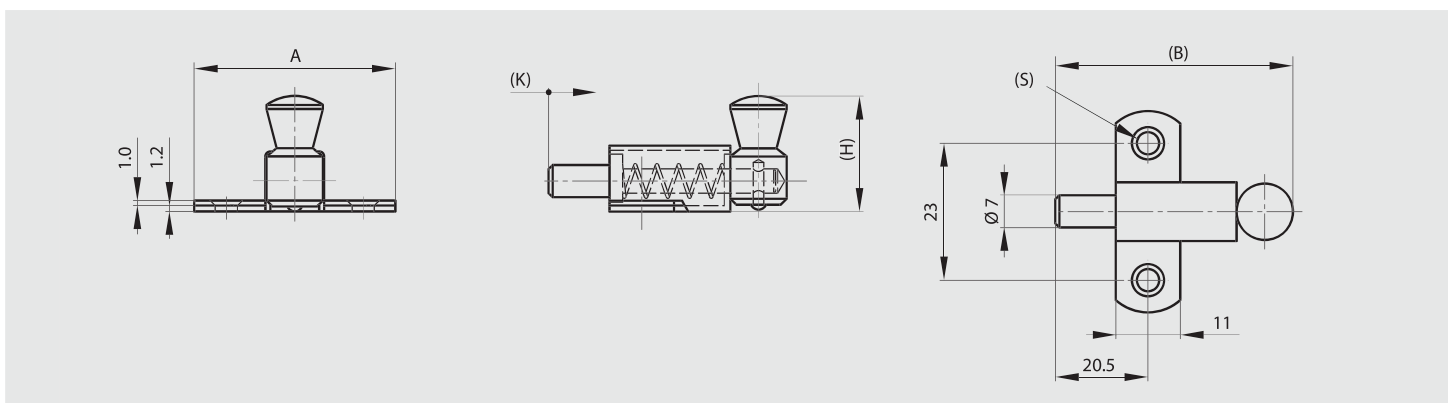
Part number	Material	Finish	A	B	K	Note	Weight (g)
16-1-9026	steel	zinc plated	132	50	17	no stop	175



Springloaded latch with round bolt



Part number	Material	Finish	A	B	H	K	S	Weight (g)
16-1-3647	steel	zinc plated	35	43.5	19	10	3.5	21



Concealed springloaded pin hinges A

Stainless steel spring.

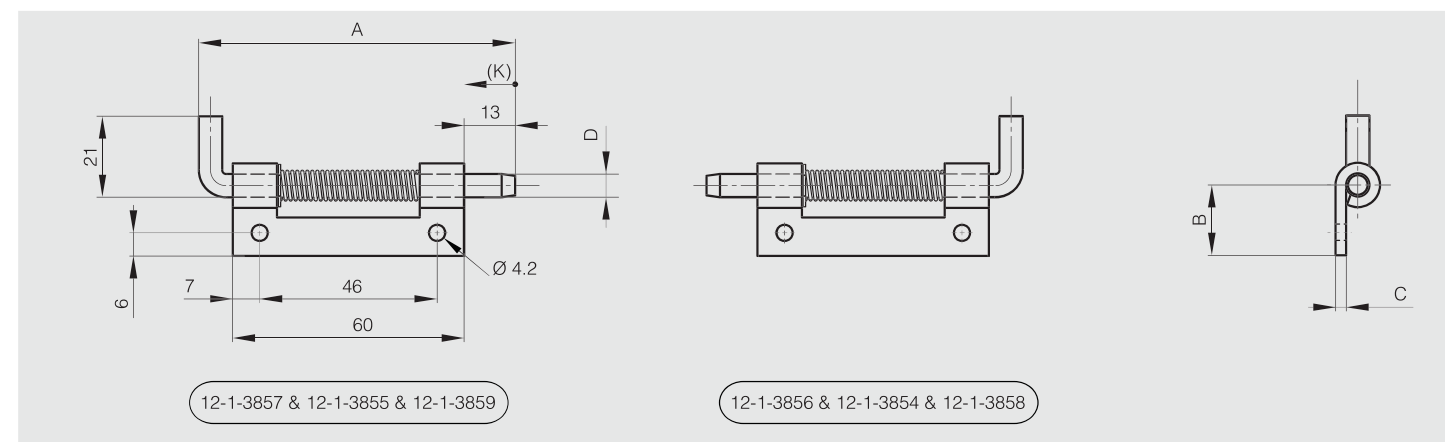
Hinges in raw steel and zinc plated steel with a zinc plated pin.

304 stainless steel pin for hinges in stainless steel.

Circlip in 1.4122 stainless steel.



Part number	Material	Finish	A	B	C	D	K	Note	Weight (g)
12-1-3856	steel	raw	82	18.2	2.8	6	12	type 2	46
12-1-3857	steel	raw	82	18.2	2.8	6	12	type 1	46
12-1-3854	steel	zinc plated	82	18.2	2.8	6	12	type 2	46
12-1-3855	steel	zinc plated	82	18.2	2.8	6	12	type 1	46
12-1-3858	304 stainless steel	raw	82	18.2	2.8	6	12	type 2	46
12-1-3859	304 stainless steel	raw	82	18.2	2.8	6	12	type 1	46



Concealed springloaded pin hinges B

Stainless steel spring.

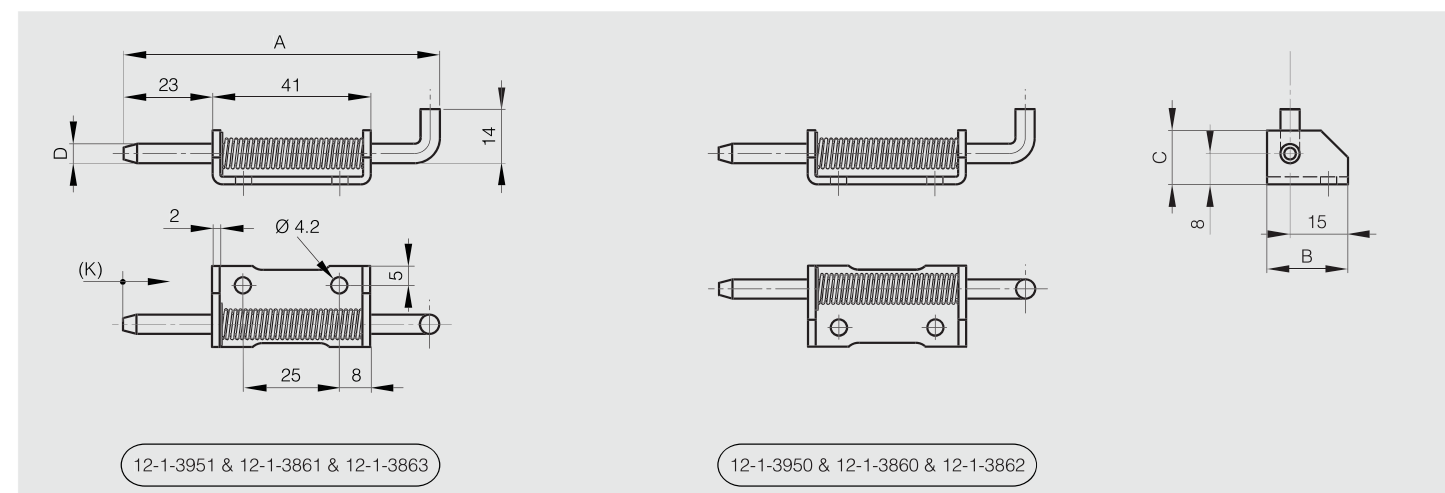
Zinc plated pin for hinges in raw steel and zinc plated steel.

304 stainless steel pin for hinges in stainless steel.

Circlip in 1.4122 stainless steel.



Part number	Material	Finish	A	B	C	D	K	Note	Weight (g)
12-1-3950	steel	raw	82	21	14	5	12	type 2	39
12-1-3951	steel	raw	82	21	14	5	12	type 1	39
12-1-3860	steel	zinc plated	82	21	14	5	12	type 2	39
12-1-3861	steel	zinc plated	82	21	14	5	12	type 1	39
12-1-3862	304 stainless steel	raw	82	21	14	5	12	type 2	39
12-1-3863	304 stainless steel	raw	82	21	14	5	12	type 1	39





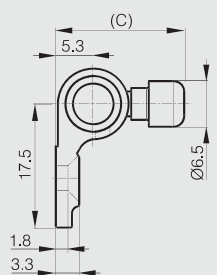
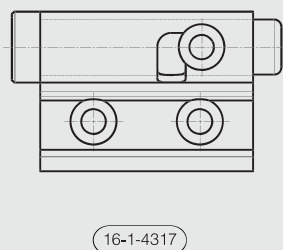
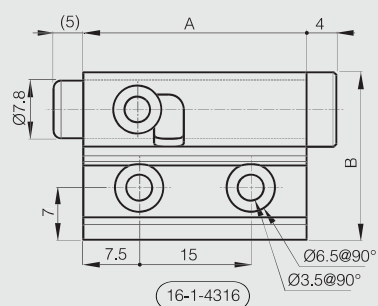
Springloaded bolt with locking system in aluminium - small dimension



ALU

Bolt can be held back in unlocked position.
Body: clear anodised aluminium.
Shaft and handle: raw aluminium.
Cap: PE, black.
Spring: stainless steel.

Part number	Material	Finish	A	B	C	Note	Weight (g)
NEW 16-1-4316	alu 6060 T5	clear anodised	30	22.5	18.2	type 2	9
NEW 16-1-4317	alu 6060 T5	clear anodised	30	22.5	18.2	type 1	9

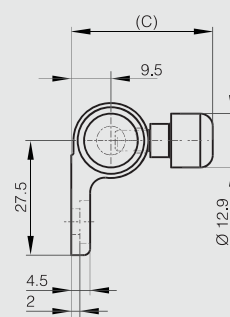
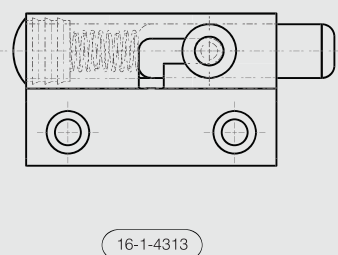
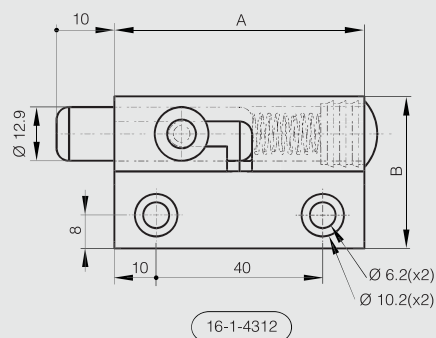


Springloaded bolt with locking system in aluminium

ALU

Stop when open.
Body: clear anodised aluminium.
Shaft and handle: raw aluminium.
Cap: PE, black.
Spring: stainless steel.
No strike included (strike part number 16-1-4323).

Part number	Material	Finish	A	B	C	Note	Weight (g)
16-1-4312	6060 T5 alu	clear anodised	60	36.5	34	type 2	58
16-1-4313	6060 T5 alu	clear anodised	60	36.5	34	type 1	58

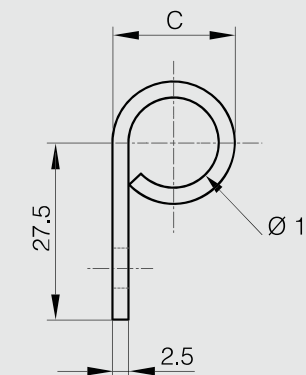
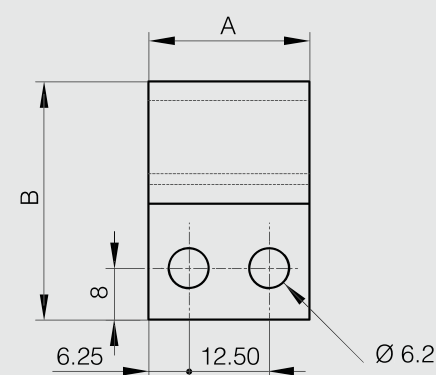


Strike for spring-loaded bolt and barrel bolt in aluminium



Strike for:
- Spring loaded bolt with locking system part numbers: 16-1-4312 and 16-1-4313
- Barrel bolt part number: 16-1-4311.

Part number	Material	Finish	A	B	C	Weight (g)
NEW 16-1-4323	5754 alu	anodised	25	37	19	11

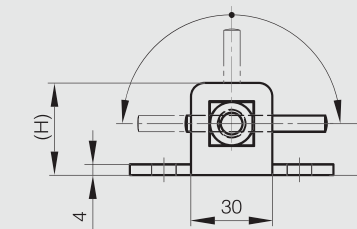
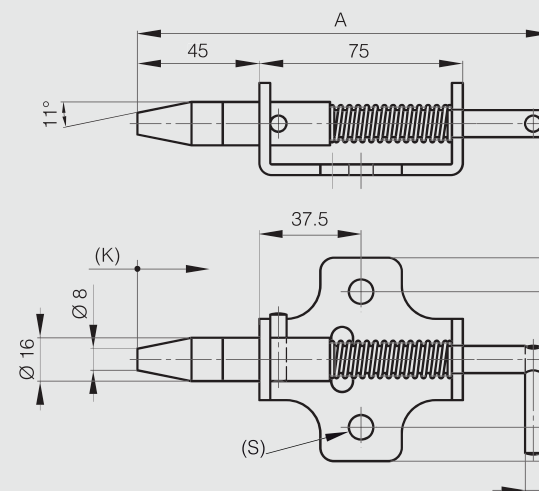


Springloaded bolt with locking system A

STEEL

Heavy duty range. Stop when open.

Part number	Material	Finish	A	B	H	K	S	Weight (g)
16-1-4034	steel	zinc plated	152	75	34	20	9	340





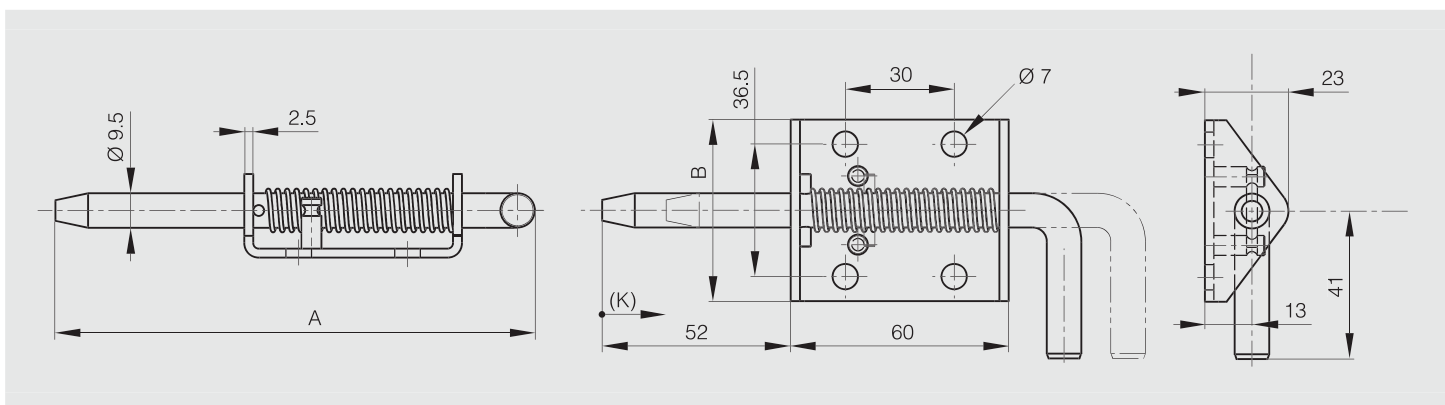
Spring-loaded latches - stop in opening position

Springloaded bolt with locking system B

Heavy duty range. Stop when open.



Part number	Material	Finish	A	B	K	Weight (g)
16-1-9007	steel	zinc plated	132	50	17	175
16-1-9025	304 stainless steel	raw	132	50	17	170

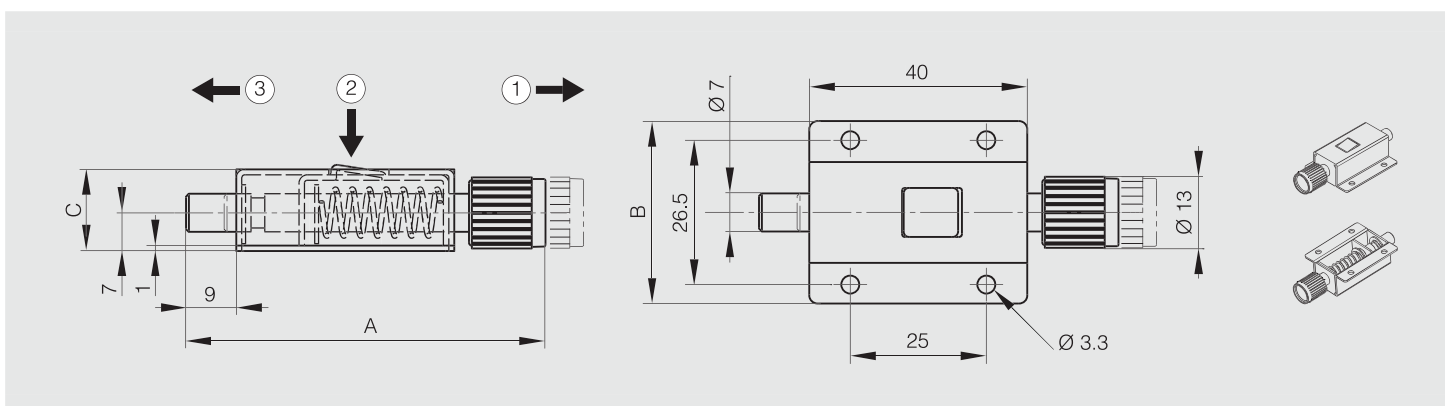


Push barrel bolt

Stainless steel latch with steel shaft and plastic button.
Produced mainly in stainless steel, for a complete description of the materials contact us.



Part number	Material	Finish	A	B	C	Weight (g)
16-1-9008	304 stainless steel	raw	64	33.5	15	44



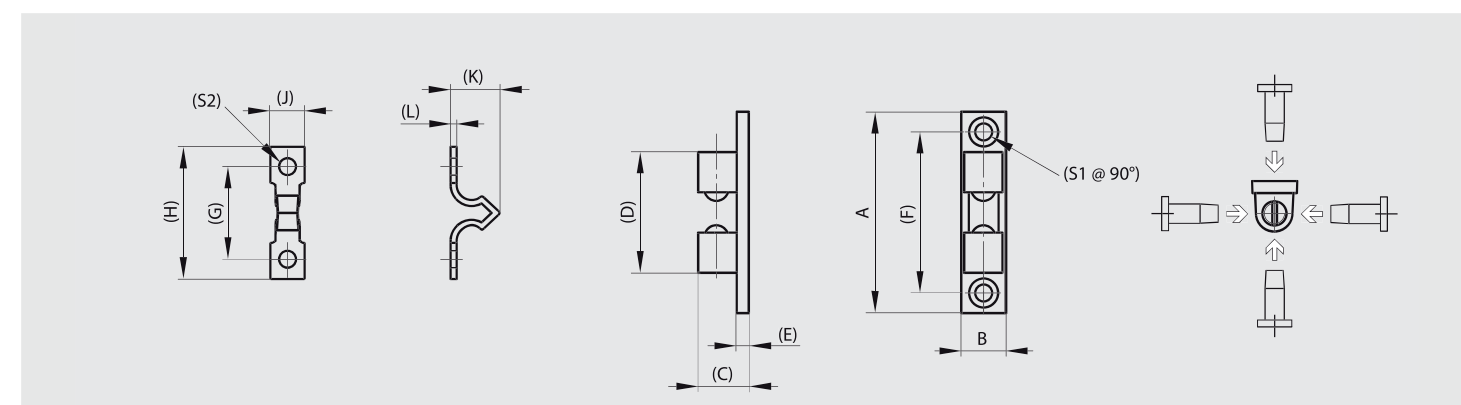
Ball catches

Dual ball catches A

Coutersunk on both sides of the catch.
Strike can be secured on 4 sides of the catch.
Body of the catch: zinc die-cast with brass finish.
Balls: in steel
Strike: in steel with brass finish.



Part number	Material	Finish	A	B	C	D	E	F	G	H	J	K	L	S1	S2	Weight (g)
16-7-3469	zinc die-cast	brass	49.9	11.4	12.6	30	3	40	20.2	30.5	8.1	17	1.4	4.3	4	22
16-7-3470	zinc die-cast	brass	60	14.6	14.7	38	3	48	27	42	10.2	20	2	4.2	5	38
16-7-3471	zinc die-cast	brass	70	17.3	16.5	43.6	3.5	57	34	50	12	22.5	2	4.3	3.5	59

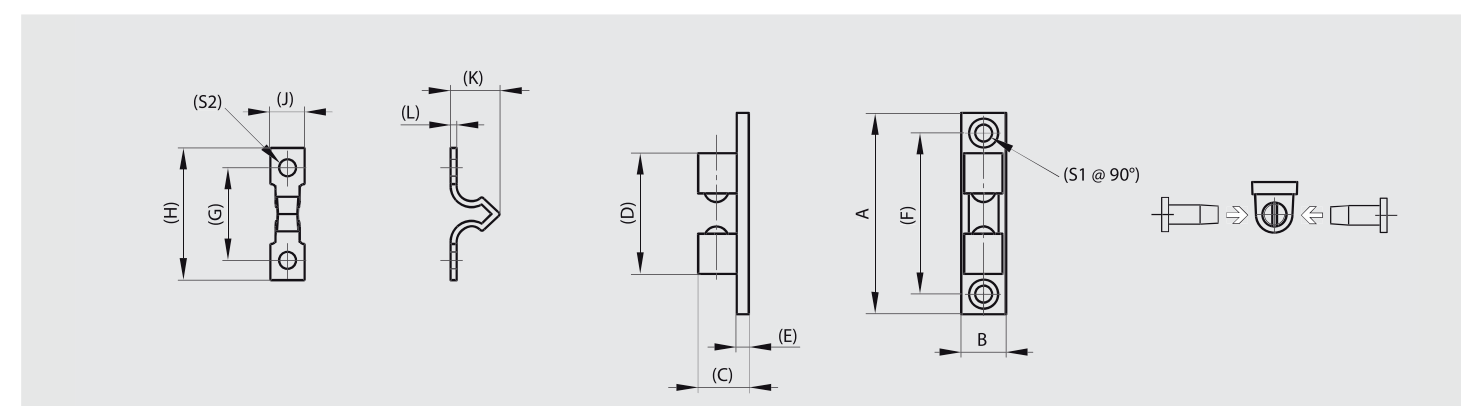


Dual ball catches B

Strike can be secured on 2 sides of the catch.
Body of the catch: zinc die-cast with brass finish.
Balls: in steel
Strike: in steel with brass finish.



Part number	Material	Finish	A	B	C	D	E	F	G	H	J	K	L	S1	S2	Weight (g)
16-7-3423	zinc die-cast	brass	41.7	8.5	10.7	26	2.6	34	16.9	25.7	8	13.5	1.2	3.5	3	14





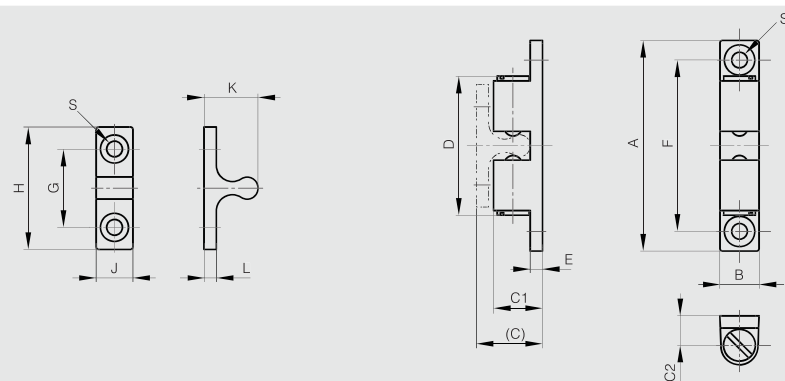
Ball catches

Stainless steel dual ball catches

Catch force is not adjustable. Do not turn the slot part.



Part number	Material	Finish	A	B	C	C1	C2	D	E	F	G	H	J	K	L	S	Force	Weight (g)
16-7-4305	316 stainless steel	polished	43	8	13.5	10	6	28.4	2.5	35	16	25	7.5	11	2.5	3.2	1.3kg	18
16-7-4306	316 stainless steel	polished	50	10	16.1	12.2	7.7	31.5	2.9	40	20	30	9	13.2	2.9	4.2	1.8kg	30
16-7-4307	316 stainless steel	polished	70	13	23	17	10.5	51	4	60	30	42	10.5	19	4	4.2	3.9kg	83

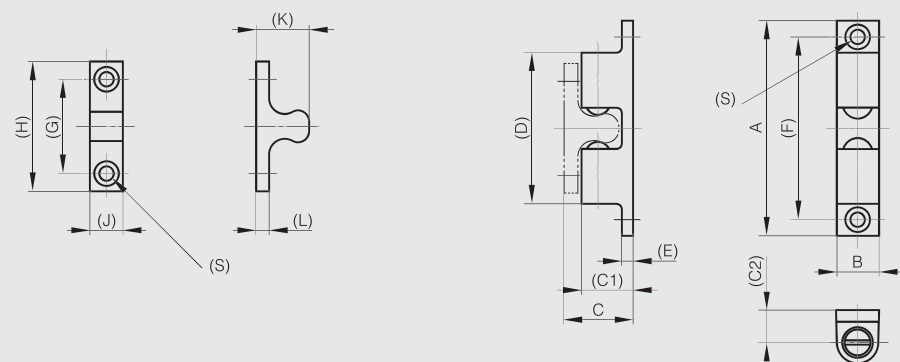


Zinc die-cast dual ball catches

Body: zinc die-cast, chrome plated.
Balls: steel.



Part number	Material	Finish	A	B	C	C1	C2	D	E	F	G	H	J	K	L	S	Force	Weight (g)
16-7-4211	zinc die-cast	chrome plated	42.5	8	14	10	6.5	26.7	2.5	35	16	25	7.5	11.3	2.5	3.2	3kg	16
16-7-4212	zinc die-cast	chrome plated	50	10	16	12.5	7.4	29.8	3	40	20	30	9	12.3	2.5	4.2	3.3kg	26
16-7-4213	zinc die-cast	chrome plated	70	13.5	21.2	17	11	49	4	60	30	42	10.5	17.2	3	4.2	3.5kg	70

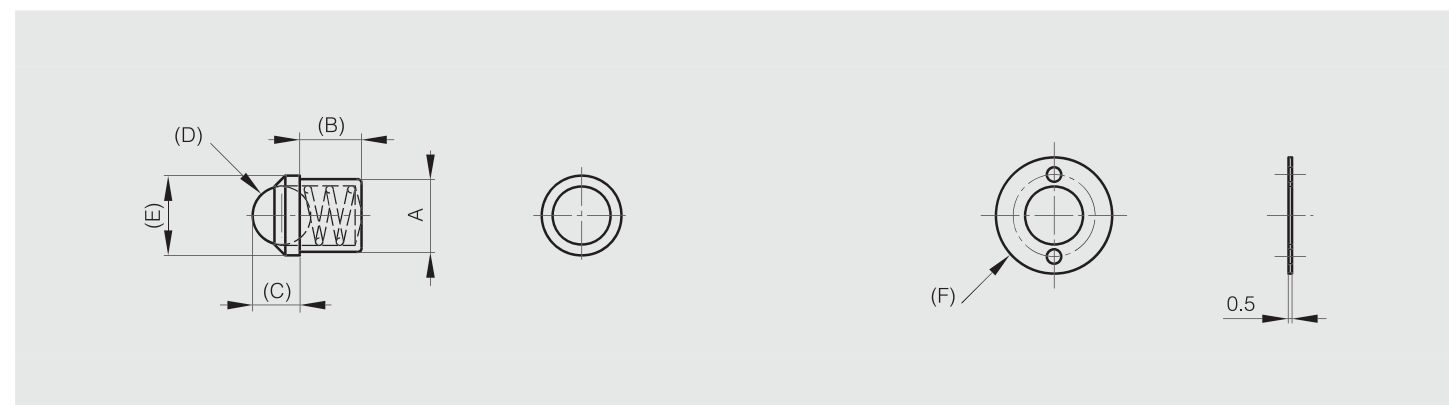


Ball catches

Ball catches



Part number	Material	Finish	A	B	C	D	E	F	Weight (g)
16-7-3330	brass	raw	8	7.4	4.5	6.5	9	16	4
16-7-3331	brass	raw	10	8.5	6.5	8	11	16	7
16-7-3332	brass	raw	12	9	7	10	13	19.5	10
16-7-3333	brass	raw	13	10.5	7.2	10	14	19.5	14





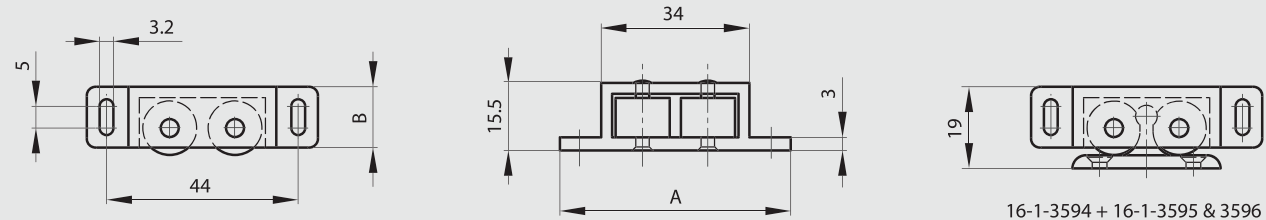
Roller catches

Roller catch without counterplate

Rubber rollers. Housing in ABS. Shaft in brass.



Part number	Material	Finish	A	B	Force	Weight (g)
16-1-3594	polymer	white	53	14	1.5kg maxi	9

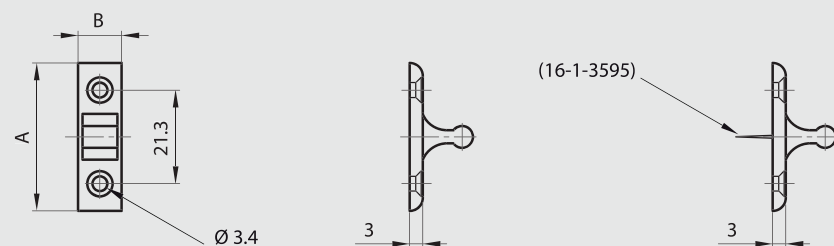


Counterplates for part number 16-1-3594

Strike in ABS.



Part number	Material	Finish	A	B	Note	Weight (g)
16-1-3595	polymer	white	34	10	with pin	2
16-1-3596	polymer	white	34	10	without pin	2



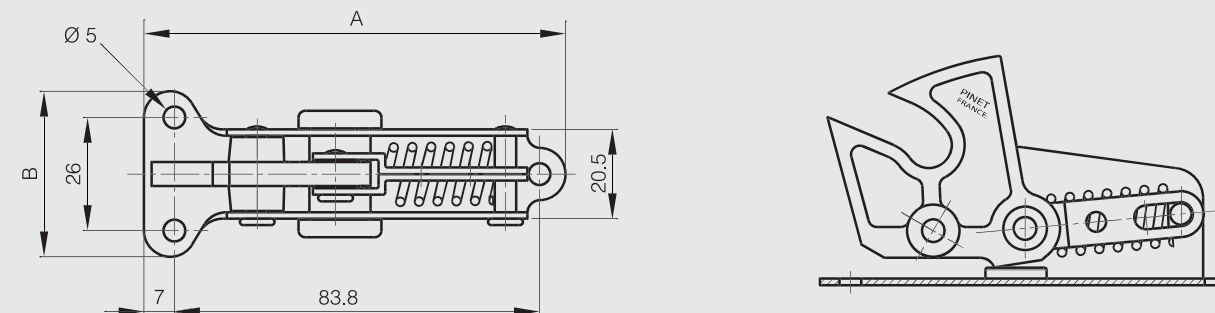
Spring-loaded catches

Catch

Nylon hook, rubber damper.



Part number	Material	Finish	A	B	Force	Weight (g)
16-1-3271	steel	zinc plated	97	39	8kg	100



Counterplate for part number 16-1-3271

Nylon roller.



Part number	Material	Finish	A	B	Weight (g)
16-1-3272	steel	chrome plated	62	22	41



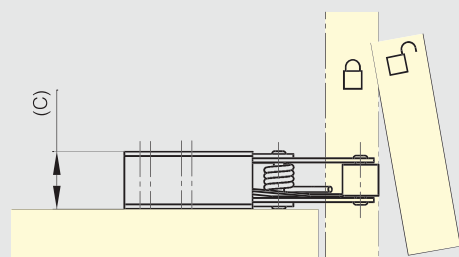
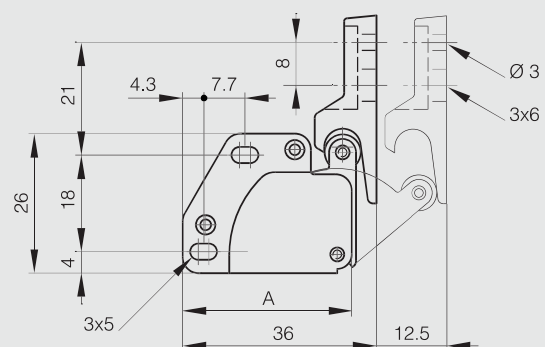


Touch latches

Touch latch in steel



Part number	Material	Finish	A	C	Weight (g)
16-7-3838	steel	nickel plated and white plastic	33	11	20

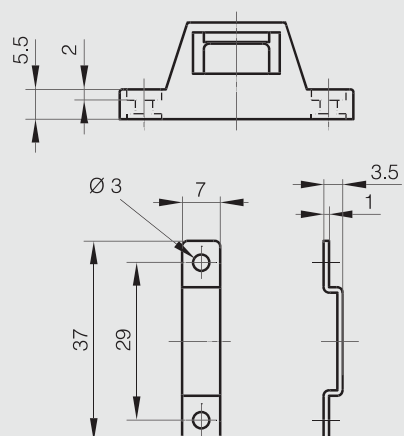
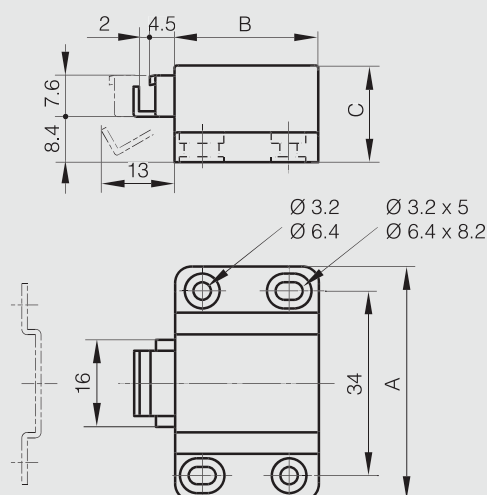


Touch latch with steel strike

Body in ABS.
Chrome plated strike and hook in black steel.



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4210	polymer	black	43	26.5	17.8	10kg	16



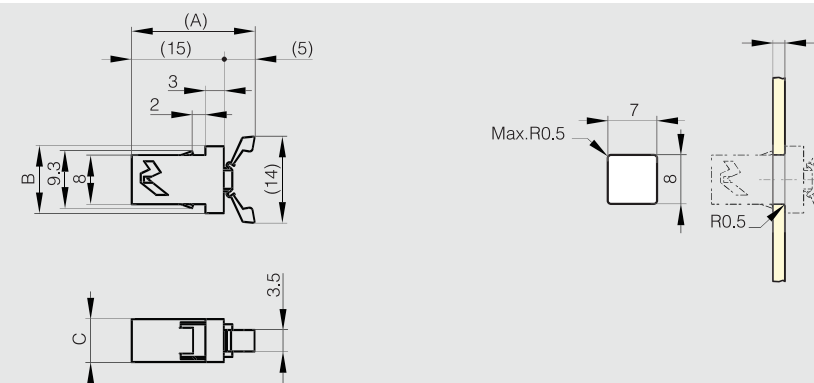
Touch latches

Mini touch latch - snap-in installation

Miniature design is ideal for small applications.
Snap-in style catch. For sheet metal thickness 2 mm.
Strike sold separately.



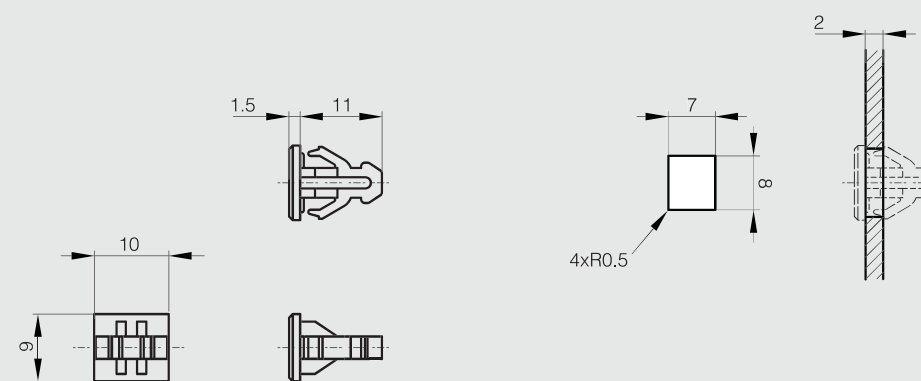
Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4302	POM/PA	black	20	10.9	7	1.2kg	0.7



Snap-in counter plate for part number 16-7-4302



Part number	Material	Finish	Weight (g)
16-7-4304	POM	black	0.5



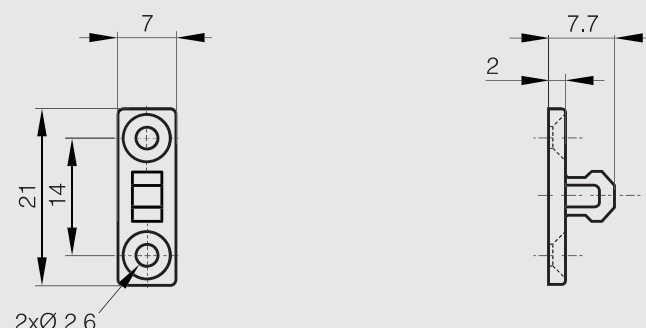


Touch latches

Screw mount counter plate for part number 16-7-4302



Part number	Material	Finish	Weight (g)
16-7-4303	POM	black	0.4

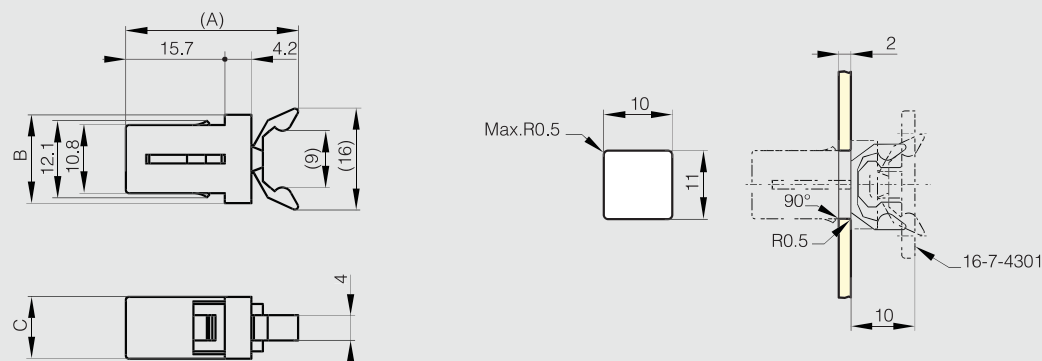


Touch latch - Snap-in installation

Compact design with strong retaining force (3.5 kg).
Snap-in style catch. For sheet metal thickness 2 mm.
Strike sold separately.
Polymer material: PBT, PA and PCL.



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4300	polymer	black	27.3	14	9.8	3.5kg	2

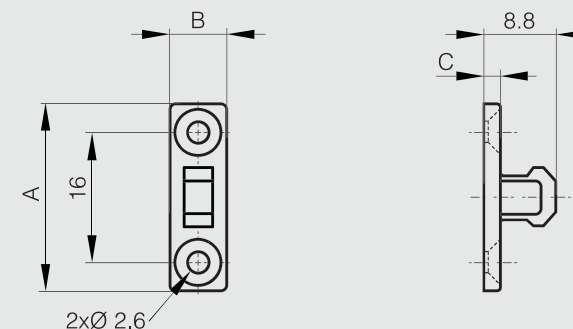


Touch latches

Counter plate for part number 16-7-4300



Part number	Material	Finish	A	B	C	Weight (g)
16-7-4301	POM	black	23	7	2	1



Touch latch - Screw mounting - With counter plate

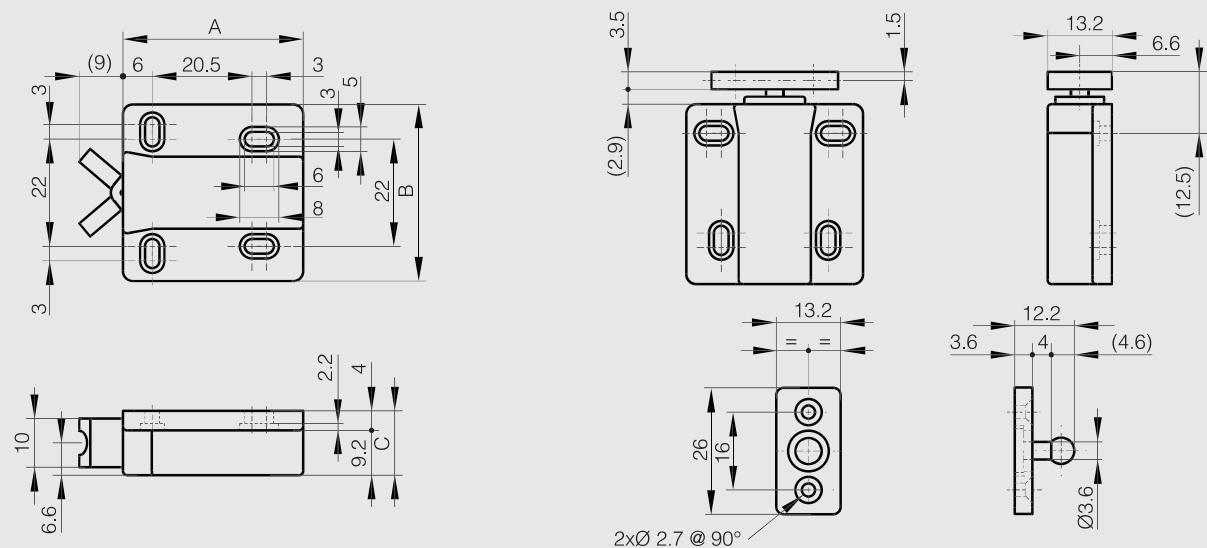
Passed 30,000 open/close cycle test.
Touch latch with floating strike allows for easy alignment.
For overlay door, allow 3 mm gap between door and cabinet frame for push space.
Pulling door with excessive force without unlatching the unit may damage the mechanism.



Latch: ABS/POM.
Counter plate: PA.
Comes with screws.



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4299	polymer	black	37	36.3	13.2	3kg	15





Touch latches

Touch latch - Screw mounting - Strong retaining force

Passed 100,000 open/close cycle test.

Strong retaining force: 8 kg.

Floating counter plate for easy alignment.

For overlay door, allow 3 mm gap between door and cabinet frame for push space.

Pulling the door with excessive force without unlatching the unit may damage the mechanism.

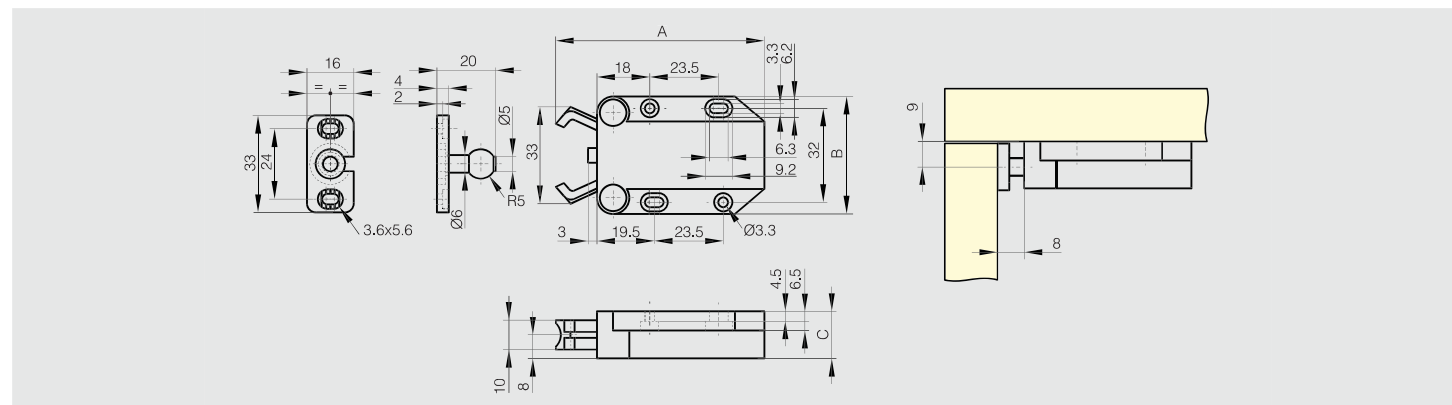
Latch: ABS/POM.

Counter plate: PA.

Comes with screws.



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4298	polymer	black	71	40	16	8kg	24



Magnetic touch latch

Lightly push to open the door.

When closing, magnet will catch the door by lightly pushing.

For overlay doors, make a 3.5mm gap between door and cabinet frame.

Body: ABS

Counter plate and yoke: steel zinc chromate

Included:

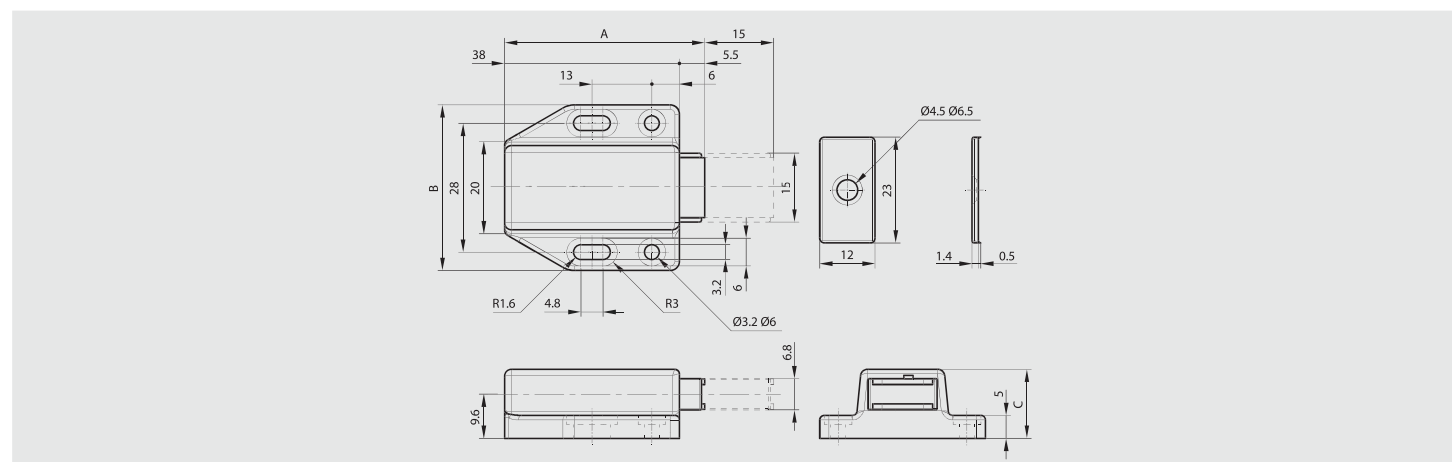
- Counter plate

- 4 round head wood screws 3.1 x 13 mm

- 1 countersunk head screw 2.7 x 13 mm.



Part number	Material	Finish	A	B	C	Force	Weight (g)
NEW 16-7-4331	ABS	white	43.5	36	15	1.6 kg	22



Other mechanical catches

Snap-in knuckle catch in plastic

Snap-in type body for easy installation on sheet metal applications.

3 panel thicknesses (E): 0.8 mm, 1.0 mm and 1.2 mm

Cut-out dimensions vary depending on panel thickness.

Internal catch body tolerance of 1.5 mm for ease of alignment.

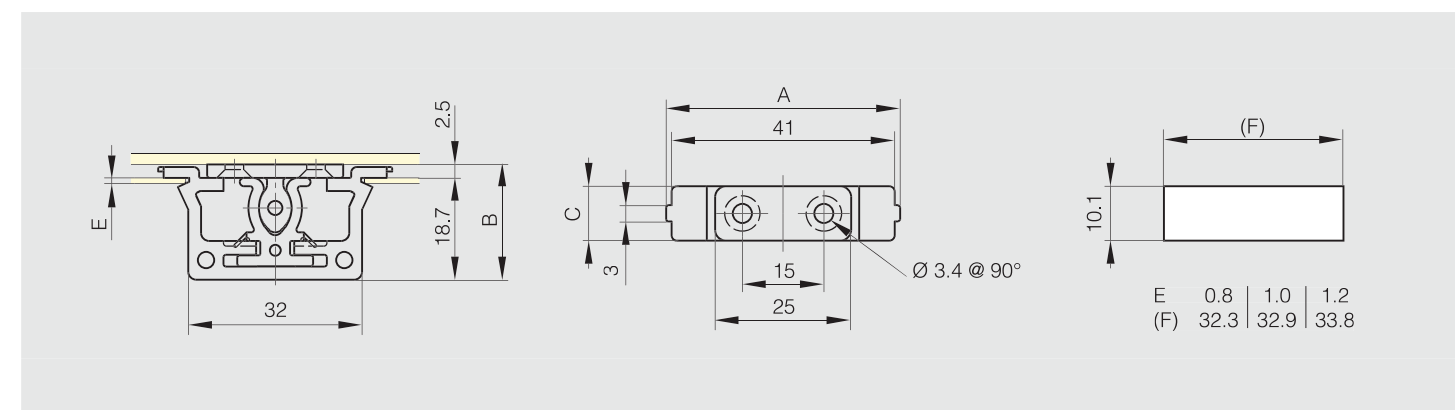
Push-in force: 2.0 kg.

Pulling force: 2.0 kg.

Body in polyacetal (POM) and strike in polyamide (PA).



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-4214	polymer	white	43	21.2	10	2kg	5



Plastic catch

Push in force : 5.7 kg

Pulling force : 7.1 kg

Body in polyacetal (POM) and strike in polyamide (PA).



Part number	Material	Finish	A	B	C	Force	Weight (g)
16-7-3860	polymer	white	35.4	30.5	13	7.1kg	5

