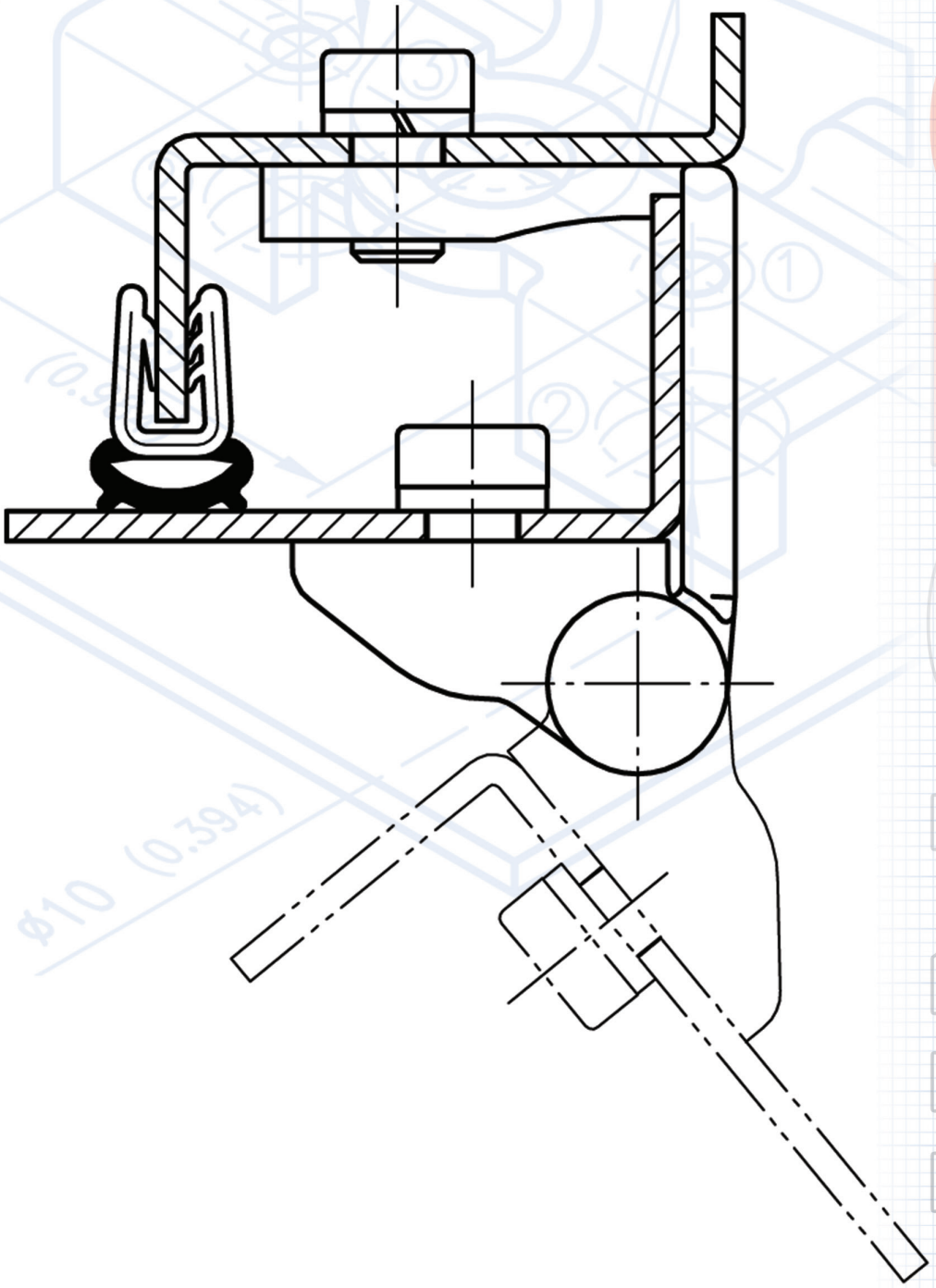


Overview Hinges

Product System		Product Notes	Material / Size / Bending	Page
4-315		Hinge Pr01/02 180° • Nested door • Weld-on	Steel, Untreated Size - Various sizes	04.102
4-393SL		Concealed Hinge Pr02 120° SNAP-LINE • Tool-less installation • Nested door, • Lift-off	PA, Black Size - 12mm x 41mm	04.103
4-392		Concealed Hinge Pr02 120° • Nested door • Lift-off	Steel, Untreated or Steel, Zinc Plated Size - 16mm x 58mm or 15mm x 82mm or 24mm x 82mm	04.104
7-250		Concealed Hinge Pr02 120° • Nested door • Spring loaded pin	Stainless Steel AISI 304 Size - 24mm x 58mm	04.105
4-390		Concealed Hinge Pr02 110° • Nested door • Lift-off	Steel, Untreated Size - 15mm x 68mm	04.106
7-251 *NEW*		Concealed Hinge Pr02 110° • Nested door • Lift-off	Stainless Steel AISI 303 Size - 13mm x 67mm	04.107
4-095		Concealed Hinge Pr02 120° • Nested door	Zinc Die, Zinc Plated Size - 37mm x 80mm	04.108
4-100		Concealed Hinge Pr02 90° • Nested door	Steel, Zinc Plated Size - 64 - 74mm x 75 Door bending - 20mm	04.109
7-107		Concealed Hinge Pr02 90° • Nested door • Adjustable	Stainless Steel AISI 304 Size - 63-72mm x 75mm Door bending 20mm	04.110
4-110		Concealed Hinge Pr02 90° • Nested door	Steel, Zinc Plated Size - 84 - 94mm x 80 Door bending 26mm	04.111

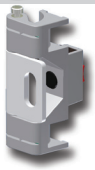
10-01-2012 © copyright by DIRAK / Germany

Overview Hinges

Product System		Product Notes	Material / Size / Bending	Page
7-108		Concealed Hinge Pr02 90° • Nested door • Adjustable	Stainless Steel AISI 304 Size - 84 - 94mm x 80mm Door bending 26mm	04.112
4-118		Concealed Hinge Pr03 125° • Surface mounted door	Steel, Zinc Plated Size - 17mm x 44mm Door bending 20mm	04.113
7-138		Concealed Hinge Pr03 125° • Surface mounted door	Stainless Steel AISI 304 PA, Black Size - 17mm x 44mm Door bending 18 - 20mm	04.114
4-119		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Zinc Plated Size - 20mm x 60mm Door bending 20mm	04.115
7-139		Concealed Hinge Pr03 120° • Surface mounted door	Stainless Steel AISI 304 Size - 20.3mm x 60mm Door bending 20mm	04.116
4-120		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Untreated Size - 22mm x 78mm Door bending 20mm	04.117
7-140		Concealed Hinge Pr03 120° • Surface mounted door	Stainless Steel AISI 304 Size - 22mm x 78mm Door bending 20mm	04.118
4-122		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Zinc Plated Size - 20mm x 78mm Door bending 20mm	04.119
7-145		Concealed Hinge Pr03 120° • Surface mounted door	Stainless Steel AISI 304 Size - 18mm x 79mmDoor bending 20mm	04.120
4-130		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Zinc Plated Size - 38mm x 75mm Door bending 20m	04.121

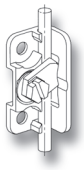
10-01-2012 © copyright by DIRAK / Germany

Overview Hinges

Product System		Product Notes	Material / Size / Bending	Page
4-140		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Zinc Plated Size - 44mm x 60mm Door bending - 26mm	04.122
7-150		Concealed Hinge Pr03 120° • Surface mounted door	Stainless Steel AISI 304 Size - 24mm x 75mm Door bending 20mm	04.123
7-160		Concealed Hinge Pr03 120° • Surface mounted door	Stainless Steel AISI 304 Size - 44mm x 73.5mm Door bending 26mm	04.124
4-135		Concealed Hinge Pr03 120° • Surface mounted door	Steel, Untreated Size - 23 or 35mm x 60mm Door bending 23mm	04.125
4-124		Concealed Hinge Pr03 120° • Hand operable • IP65	Steel, Zinc Plated Size - 77mm x 63mm Door bending 25mm	04.127
4-124SL		Concealed Hinge Pr03 SNAP-LINE 130° • Frame leaf tool-less install • Surface mounted door • IP65 • Lift-off	Zinc Die, untreated Size - 34mm x 80mm Door bending 25mm	04.128
7-165		Concealed Hinge Pr03 120° • Surface mounted door • Heavy duty	Stainless Steel AISI 304 Size - 28mm x 108mm Door bending 25mm	04.131
7-164SL		Concealed Hinge Pr03 SNAP-LINE 130° • Tool-less installation • Surface mounted door • IP65 • Lift-off	Stainless Steel AISI 316 Size - 31mm x 80mm Door bending 25mm	04.132
4-125		Concealed Hinge Pr03 120° • Surface mounted door • Lift-off	Steel, Zinc Plated Size - 33mm x 96mm Door bending - 25mm	04.135
4-125SL		Concealed Hinge Pr03 SNAP-LINE 130° • Frame leaf tool-less • Surface mounted door • IP65 • Lift-off	Zinc Die, untreated Size - 33mm x 80mm Door bending - 25mm	04.136

10-01-2012 © copyright by DIRAK / Germany

Overview Hinges

Product System		Product Notes	Material / Size / Bending	Page
7-166		Concealed Hinge Pr03 120° • Surface mounted door • Lift-off	Stainless Steel AISI 304 Size - 30mm x 96mm Door bending 25mm	04.138
4-123		Concealed Hinge Pr03 120° • Surface mounted door	Zinc Die, Zinc Plated Size - 33mm x 50mm Door bending 25mm	04.139
4-145		Hinge Pr05 180° • Surface mounted door • Single cabinet	PA, black Size - 21mm x 57mm Door bending - 16mm	04.140
7-133		Hinge Pr05 180° • Surface mounted door • Single cabinet	Stainless Steel AISI 316 Size - 19mm x 43mm Door bending 16mm	04.141
4-150		Hinge Pr05 180° • Surface mounted door • Single cabine	Zinc Die, Chrome Plated or Black Coated Size - 19mm x 57 or 70mm Door bending - 20mm	04.142
4-150SL		Hinge Pr05 SNAP-LINE 180° • Frame leaf tool-less installation • Surface mounted door • Single cabinet	Zinc Die, Matt Black Size - 19mm x 70mm Door bending - 20mm	04.143
7-134		Hinge Pr05 180° • Surface mounted door • Single cabinet	Stainless Steel AISI 316 Size - 19mm x 57mm Door bending 20mm	04.145
4-152		Hinge Pr05 180° • Surface mounted door • Single cabinet	Zinc Die, Chrome Plated, Black Coated or Steel, Black Coated Size - 19mm x 43 or 57mm Door bending - 20mm	04.146
4-152SL		Hinge Pr05 SNAP-LINE 180° • Frame leaf tool-less installation • IP65 • Surface mounted door • Single cabinet	Zinc Die, Matt Black Size - 19mm x 43 or 57mm Door bending - 20mm	04.147
7-132		Hinge Pr05 180° • Surface mounted door • Single cabinet	Stainless Steel AISI 316 Size - 21mm x 57mm Door bending 20mm	04.148

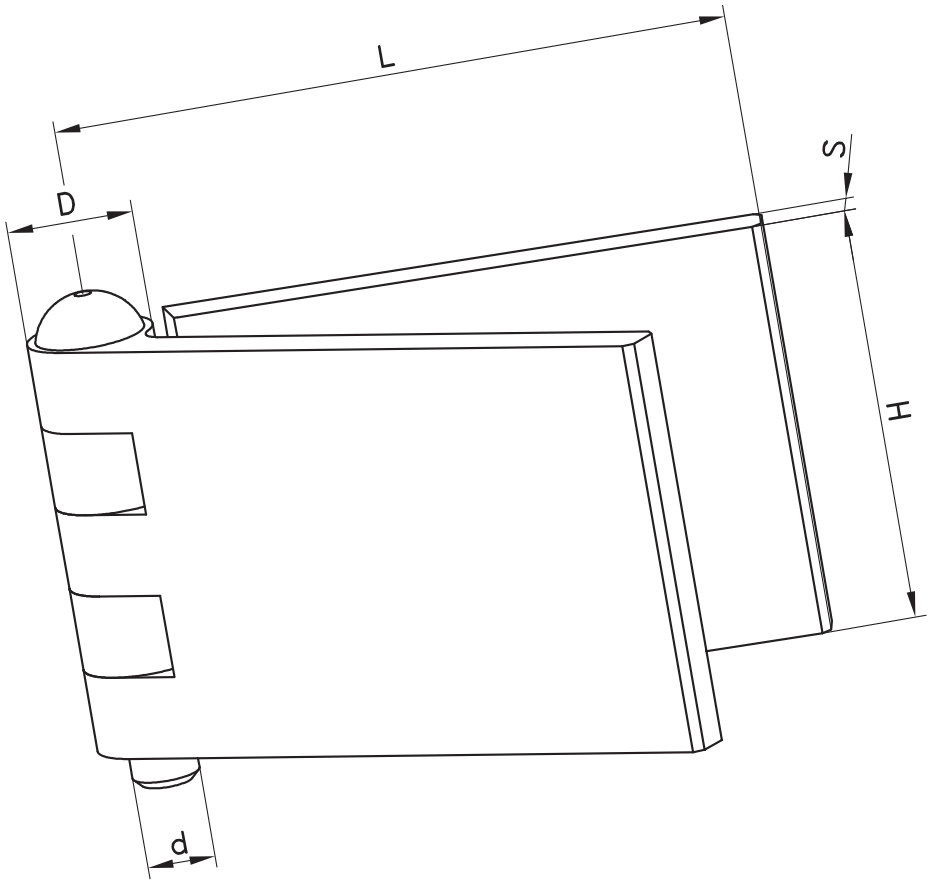
10-01-2012 © copyright by DIRAK / Germany

4-315 Hinge Pr01/02 180°

Nested door, Weld-on

Product Notes:
- Heavy duty applications
- Fasten to panel by welding

Material:
- **Hinge:** Steel, Untreated



Height H	Length L mm/inch	ØKnurl D	ØPin d	Thickness S	Part No.
40 / 1.575	60 / 2.362	12 / 0.472	6 / 0.236	5 / 0.197	233-9101
40	100 / 3.937	12	6	5	233-9102
50 / 1.969	60	12	6	5	233-9103
50	100	12	6	5	233-9104
50	80 / 3.150	15 / 0.591	8 / 0.315	6 / 0.236	233-9201
60 / 2.362	60	15	8	6	233-9202*
80 / 3.150	80	15	8	6	233-9203*
80	100	15	8	6	233-9204*

*** Pin Ø 8mm with grease nipple available on request**

Other dimensions or special shapes on request

DIRAK Inc. Phone: 1.703.378.7637 Fax: 1.703.378.7638 www.dirak.com

10-01-2012 © copyright by DIRAK / Germany

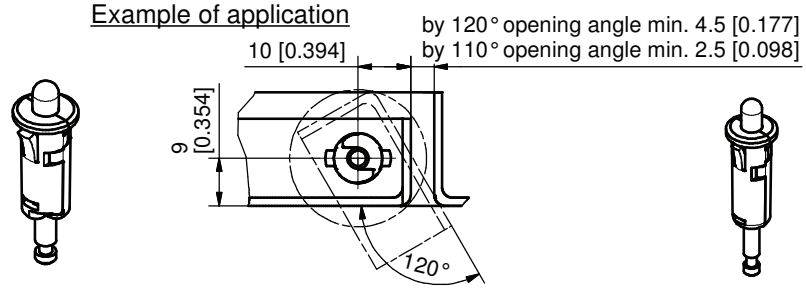
4-393SL Concealed Hinge Pr02 120° SNAP-LINE

Tool-less installation, Nested door, Lift-off

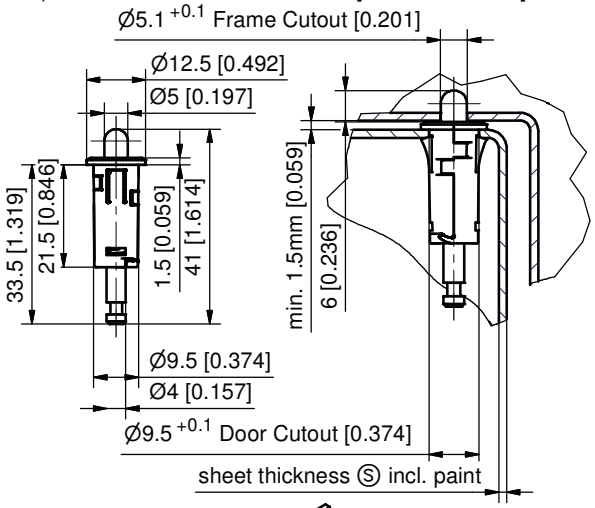
Product Notes:
- Can be used at the top and bottom of the door
- Space saving design
- Door cutout and frame cutout differ in size
- The spring loaded pin allows for an easy and quick installation and removal of the door

Material:
- **Housing:** PA, Black
- **Pin:** Steel, Zinc Plated
- **Spring:** Stainless Steel

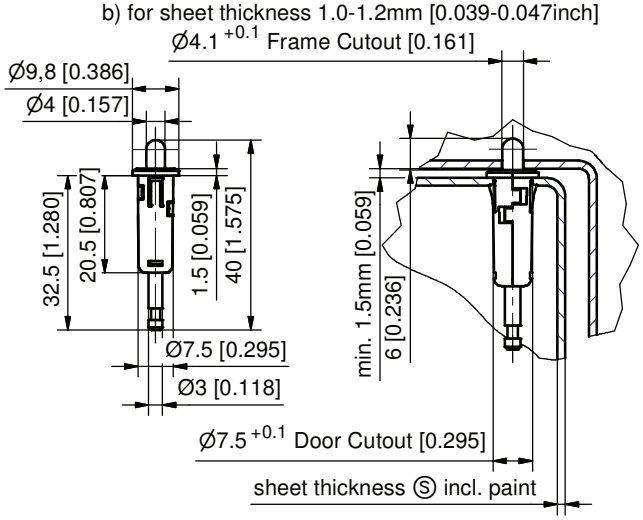
Example of application



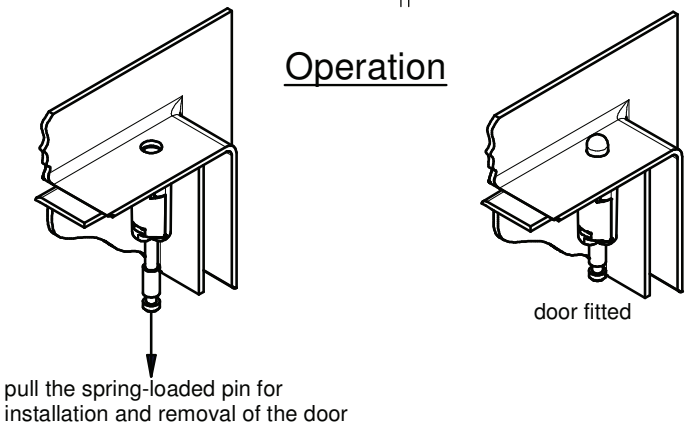
a) for sheet thickness 1.4-1.6mm [0.055-0.063inch]



b) for sheet thickness 1.0-1.2mm [0.039-0.047inch]



Operation



	Ⓢ	Part No.
a) Concealed Hinge	**1.4 - 1.6 mm**	**245-9303**
b) Concealed Hinge	**1.0 - 1.2 mm**	**245-9301**

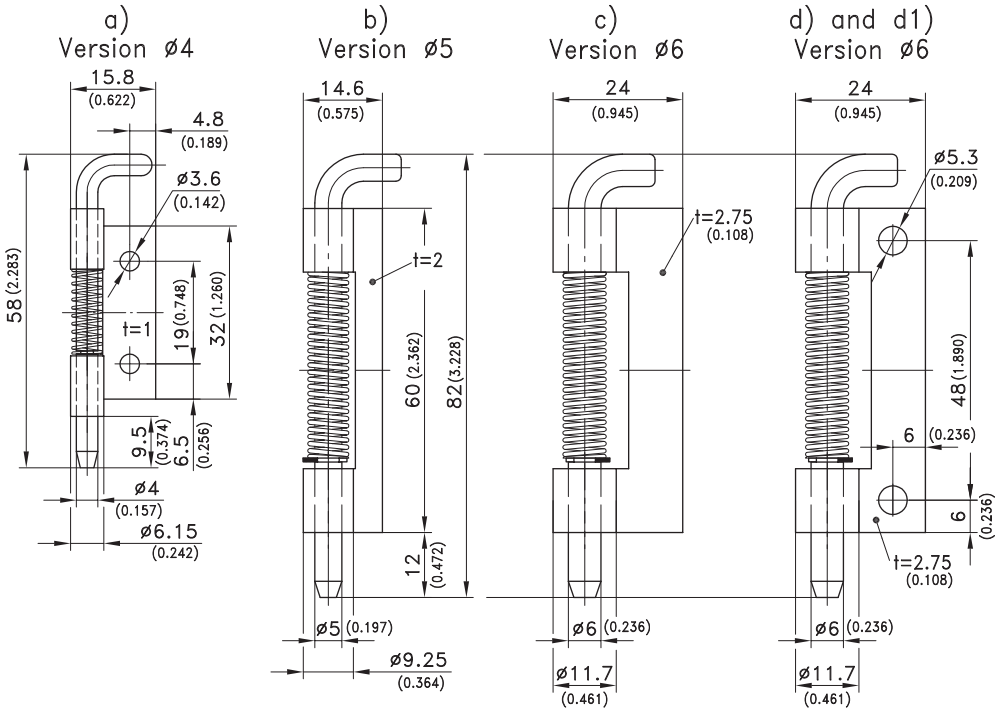
10-01-2012 © copyright by DIRAK / Germany

4-392 Concealed Hinge Pr02 120°

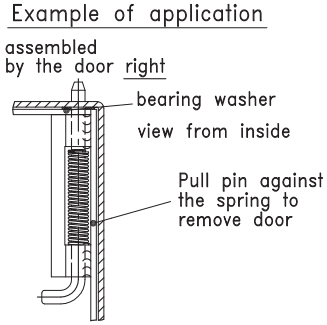
Nested door, Lift-off

Product Notes:
- RH and LH application
- Spring loaded pin for door extension
- Versions Ø5mm - fasten to panel by welding
- Versions Ø4mm and Ø6mm - fasten to panel with screws or weld-on
- Stainless steel - see Product System 7-250

Material:
- **Roller:** Steel, Untreated or Steel, Zinc Plated
- **Pin:** Steel, Zinc Plated
- **Spring:** Stainless Steel



Example of application



	a) Ø4	b) Ø5	c) Ø6 (Roller untreated)	d) Ø6 (Roller untreated)	d1) Ø6 (Roller Zinc Plated)	See Page
Loose parts (not assembled)	-	245-9105*	-	245-9106*	245-9109*	
Version RH (as drawn)	245-9001	245-9103	245-9113	245-9101	245-9107	
Version LH (mirror inverted)	245-9002	245-9104	-	245-9102	245-9108	
Stainless steel version						04.105

***Because some hinge bodies have to be welded on and painted, we offer these hinges loose, not assembled.**

10-01-2012 © copyright by DIRAK / Germany

7-250 Concealed Hinge Pr02 120°

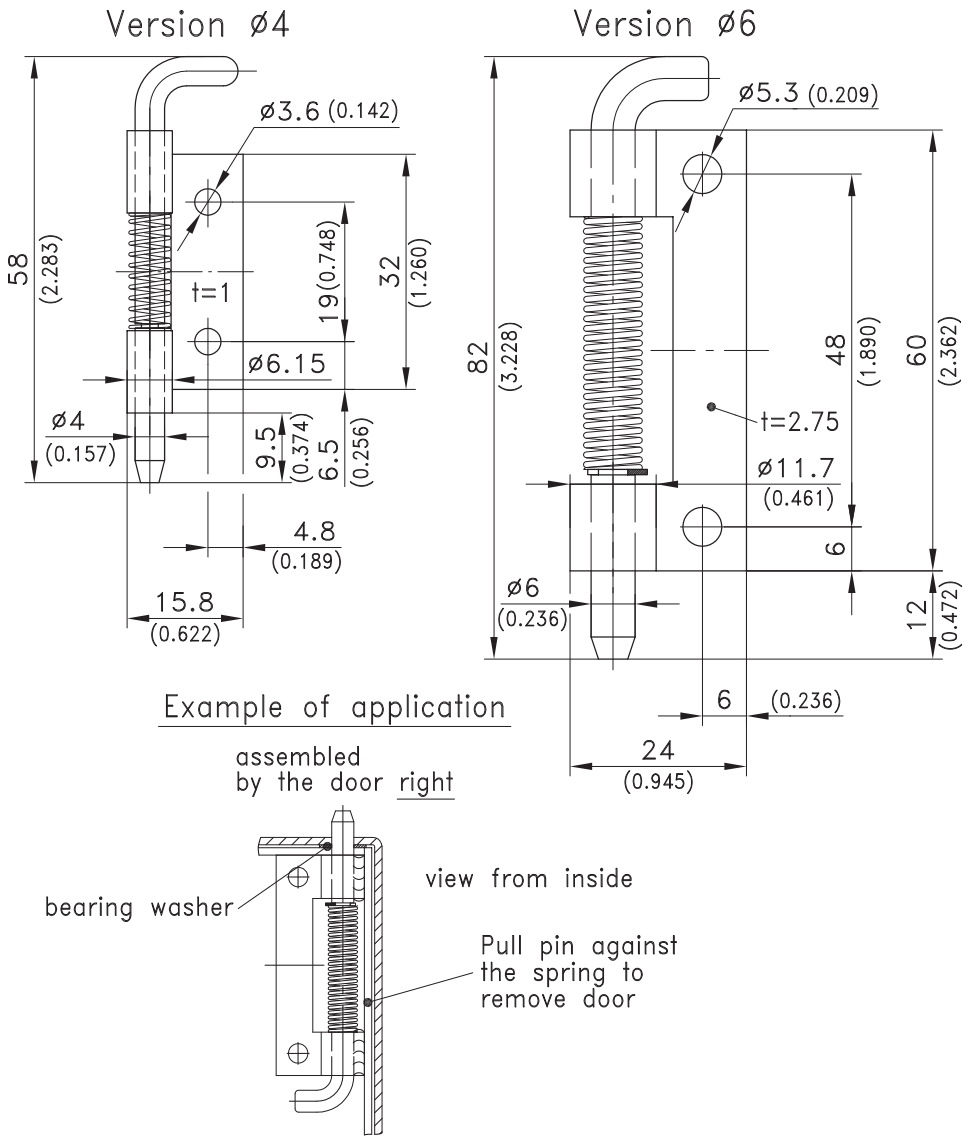
Nested door, Stainless Steel, Spring loaded pin

Product Notes:

- Spring loaded pin
- Fasten to panel with screws or weld-on
- Zinc die - see Product System 4-392

Material:

- **Roll, pin and spring:** Stainless Steel AISI 304



	Version Ø4	Version Ø6
Loose parts (not assembled)	-	**245-9112**
Version RH (as drawn)	**245-9003**	**245-9110**
Version LH (mirror inverted)	**245-9004**	**245-9111**

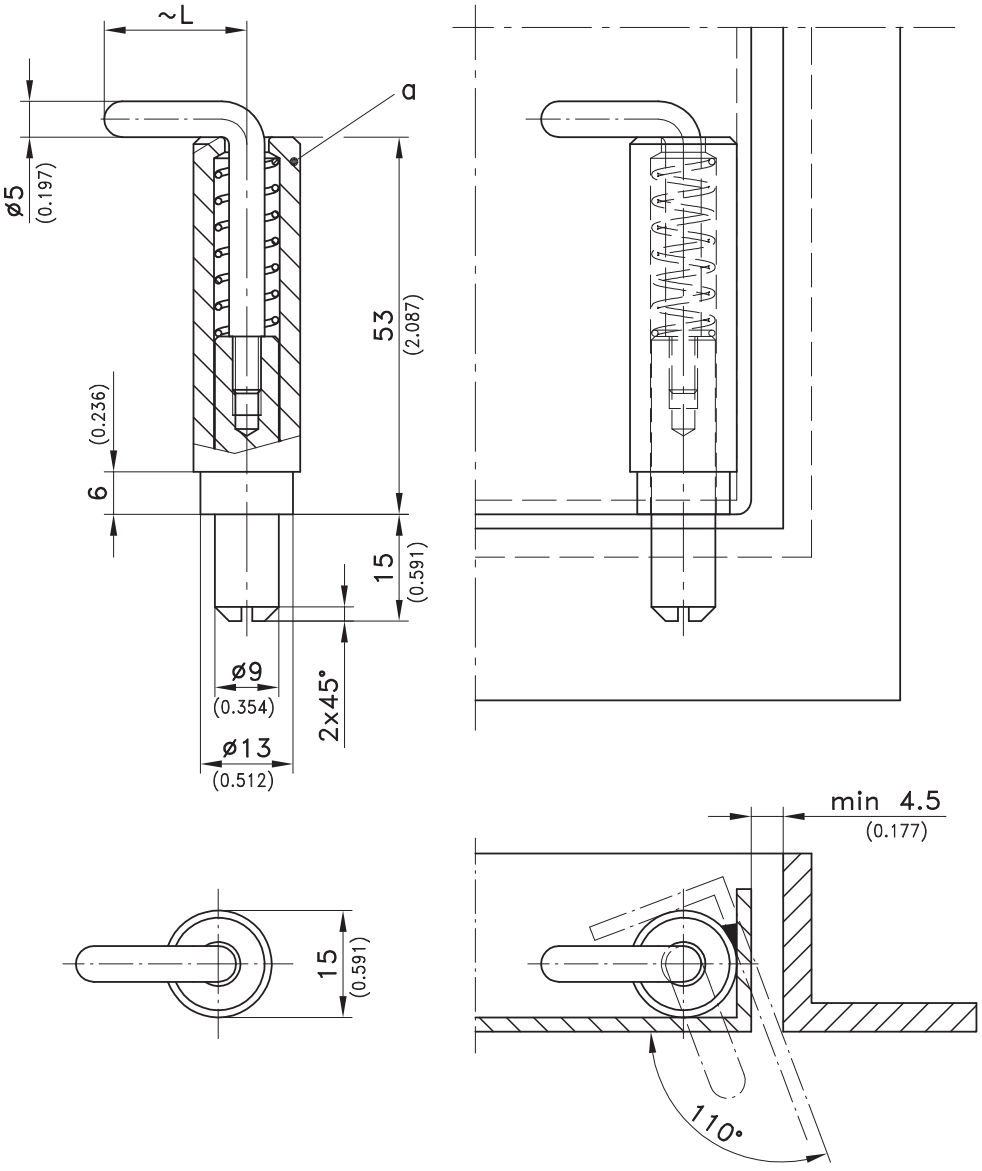
10-01-2012 © copyright by DIRAK / Germany

4-390 Concealed Hinge Pr02 110°

Nested door, Lift-off

Product Notes:
- Springloaded pin
- RH and LH applications
- Barrel is welded-in
- Assemble slotted pivot pin, hooked pin and spring after painting
- 110° opening angle
- Stainless steel - see Product System 7-251

Material:
- **Bezel:** Steel, Untreated
- **Pin with slot:** Steel, Zinc Plated
- **Hook pin:** Steel, Zinc Plated
- **Spring:** Spring Steel, Galvanized



	Part No.	See Page
a) Concealed Hinge L=20	241-9001	
a1) Concealed Hinge L=35	241-9002	
Stainless steel version		04.107

10-01-2012 © copyright by DIRAK / Germany

7-251 Concealed Hinge Pr02 110°

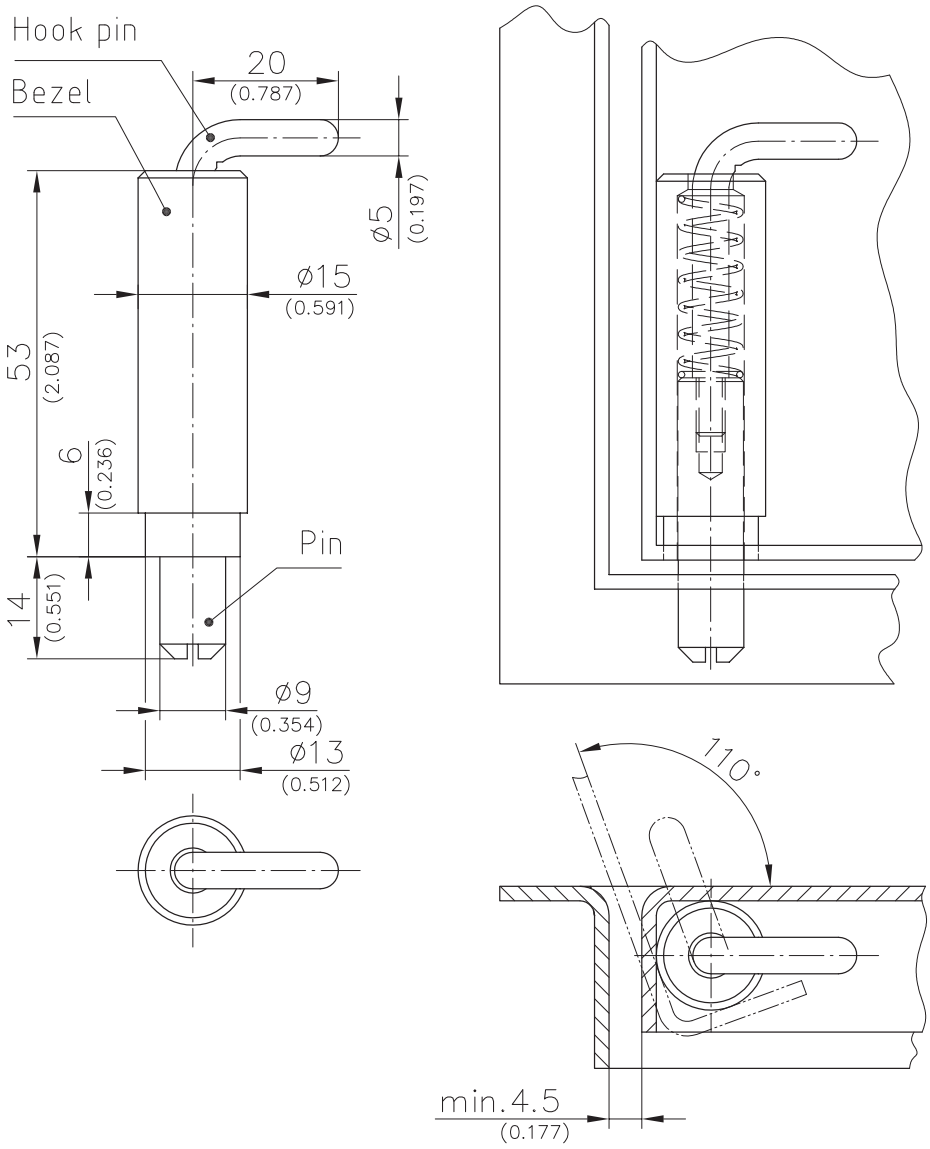
Nested door, Stainless Steel, Lift-off

Product Notes:

- Door is removed by pulling spring loaded pin
- RH and LH applications
- Barrel should be welded first. After painting, the slotted pivot pin, hook pin and spring are assembled
- 110° opening angle
- Zinc die - see Product System 4-390

Material:

- **Bezel, pin, hook pin and spring:** Stainless Steel AISI 303



	Part No.	See Page
Concealed Hinge	**241-9001.81-00000**	
Steel version		**04.106**

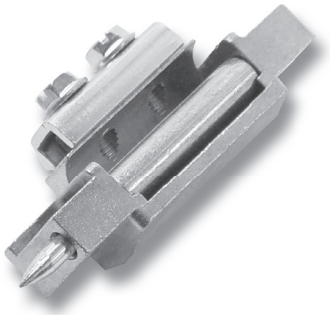
10-01-2012 © copyright by DIRAK / Germany

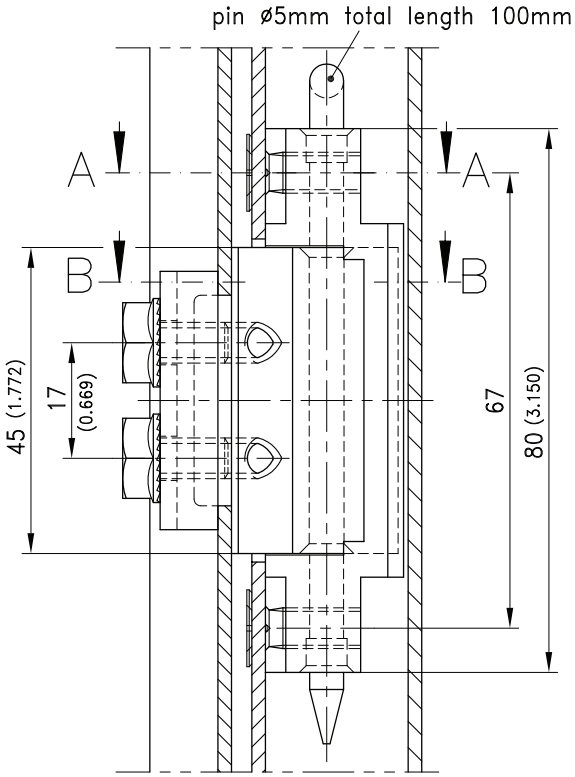
4-095 Concealed Hinge Pr02 120°

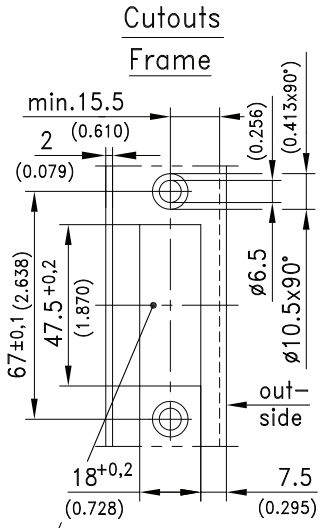
Nested door

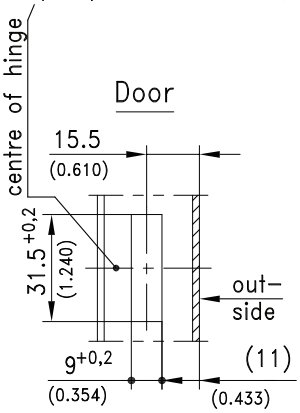
Product Notes:
- RH and LH application
- 120° opening angle

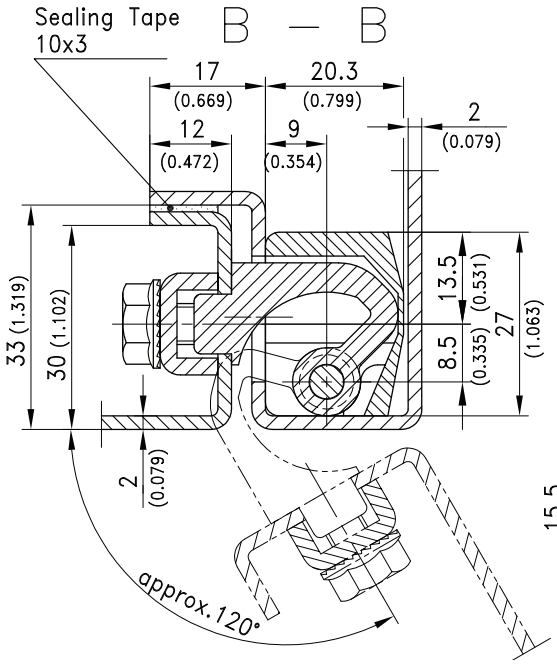
Material:
- **Leaves:** Zinc Die, Zinc Plated
- **Fastening clip and pin:** Steel, Zinc Plated

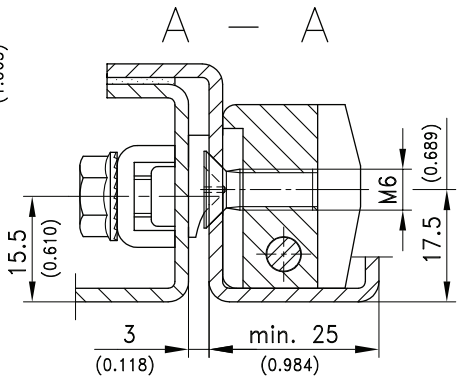












	Part No.
Concealed Hinge	**222-9301**
Fitting hardware included	

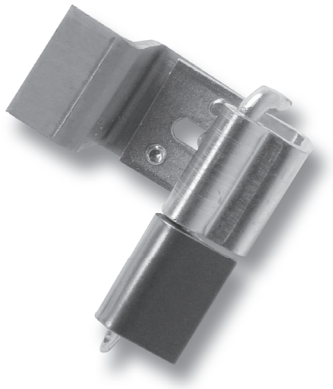
10-01-2012 © copyright by DIRAK / Germany

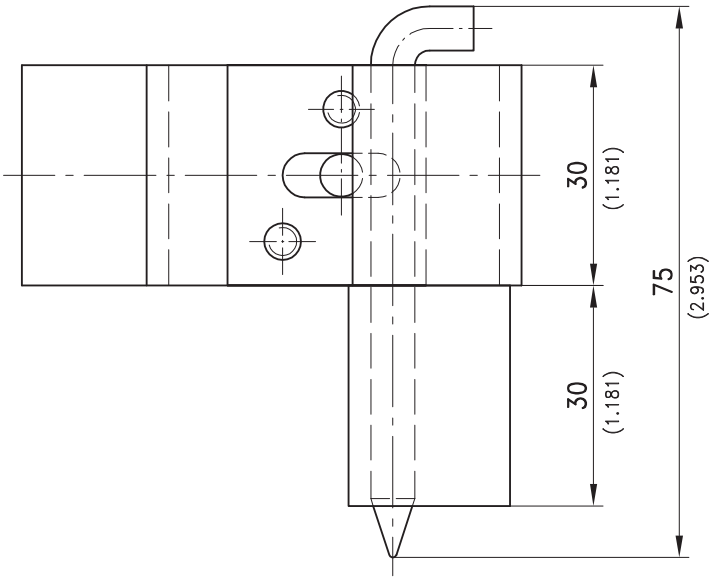
4-100 Concealed Hinge Pr02 90°

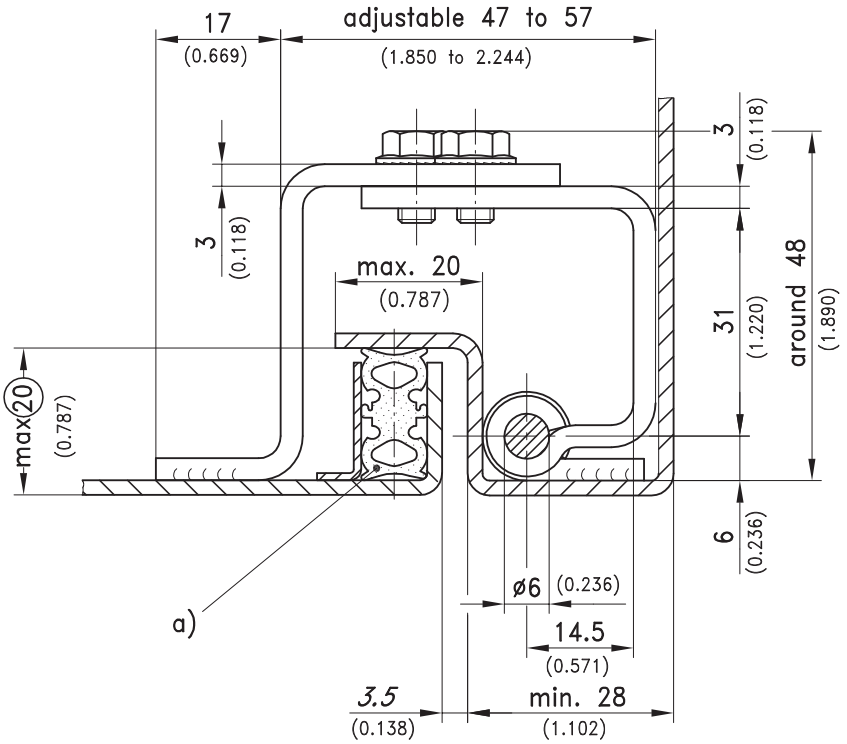
Nested door, Door bending 20mm

Product Notes:
- Leaves have a central guide to prevent door sagging during adjustment
- RH and LH application
- Stainless steel - see Product System 7-107

Material:
- **U-part:** Steel, Zinc Plated
- **Z-part and frame leaf:** Steel, Untreated
- **Pin:** Steel, Zinc Plated







	Part No.	See Page
Concealed Hinge	**222-9001**	
Stainless steel version		**04.110**
a) Clip-on profile	**209-0122**	**05.08**

10-01-2012 © copyright by DIRAK / Germany

7-107 Concealed Hinge Pr02 90°

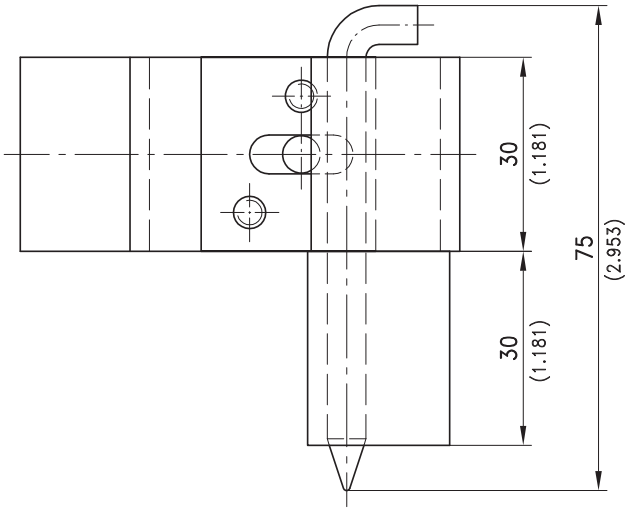
Nested door, Stainless Steel, Adjustable, Door bending 20mm

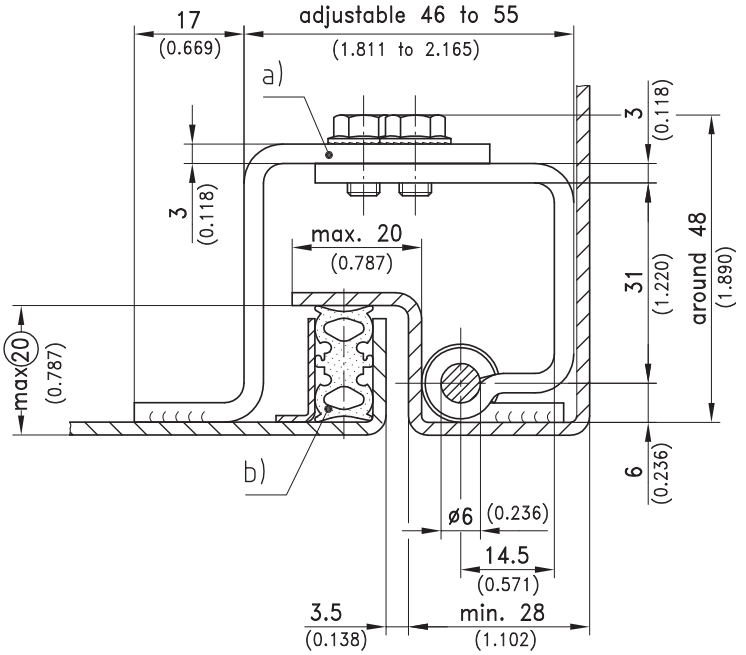
Product Notes:

- Leaves have a central guide to prevent door sagging during adjustment
- RH and LH application
- Zinc die - see Product System 4-100

Material:

- **Hinge:** Stainless Steel AISI 304





	Part No.	See Page
a) Concealed Hinge	222-9105	
b) Clip-on profile	209-0122	05.08

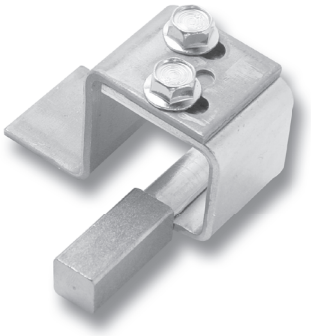
10-01-2012 © copyright by DIRAK / Germany

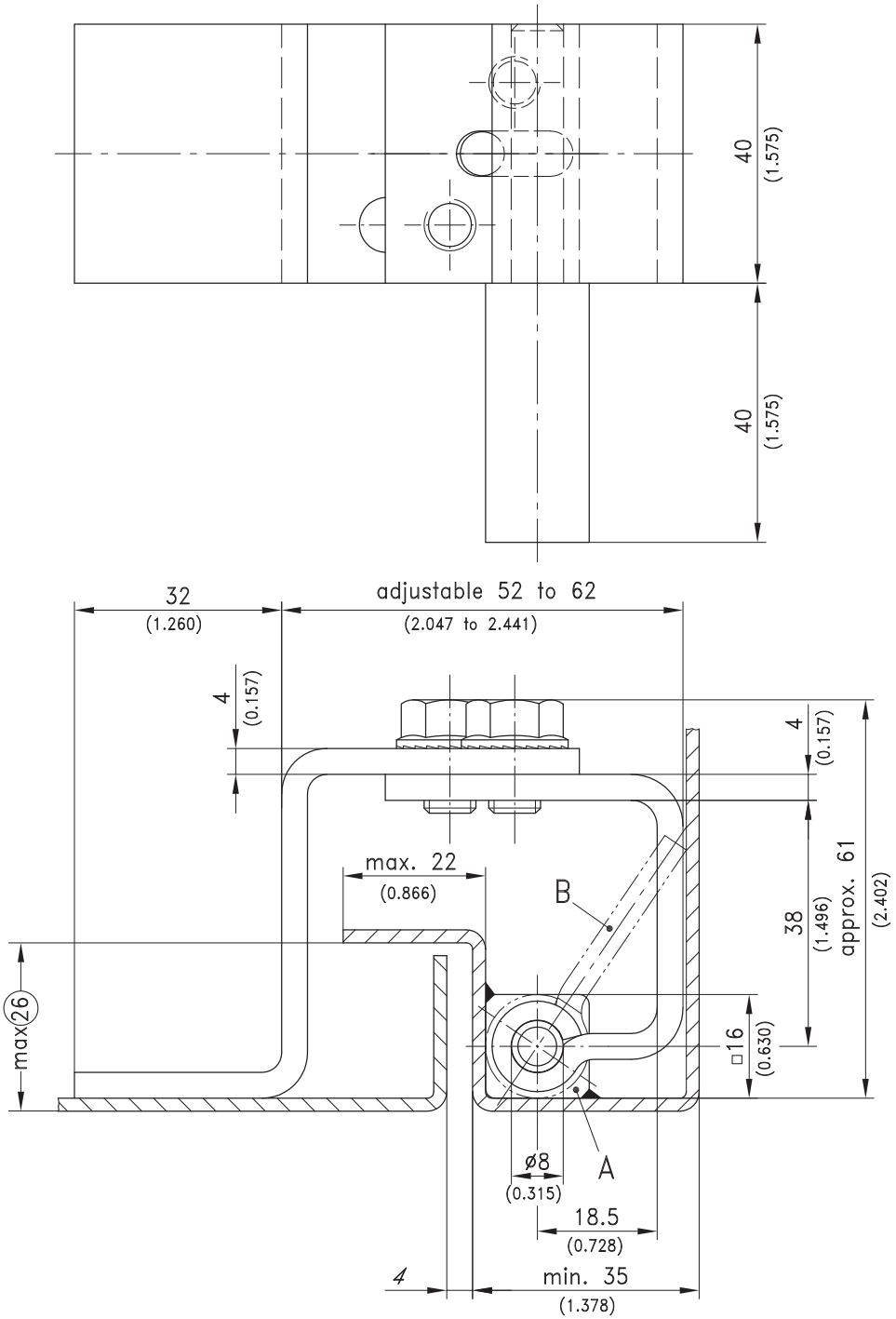
4-110 Concealed Hinge Pr02 90°

Nested door, Door bending 25mm

Product Notes:
- Leaves have a central guide to prevent door sagging during adjustment
- RH and LH application
- Stainless steel - see Product System 7-108

Material:
- **U-part:** Steel, Zinc Plated
- **Z-part:** Steel, Untreated
- **Pivot:** Steel, Untreated





	Version	Part No.	See Page
A	**Pivot with □16**	**222-9101**	
B	**Pivot with flap**	**222-9103**	
	Stainless steel version		**04.112**

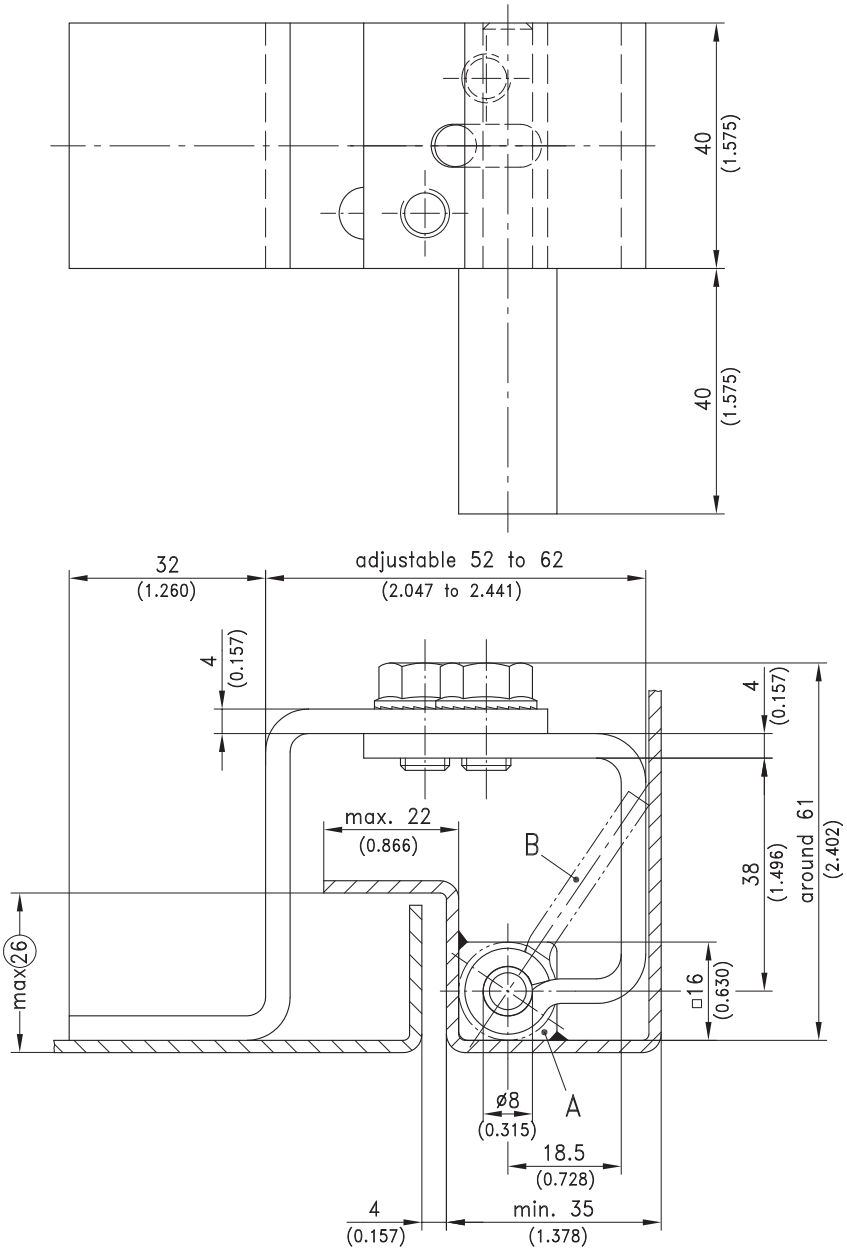
10-01-2012 © copyright by DIRAK / Germany

7-108 Concealed Hinge Pr02 90°

Nested door, Stainless Steel, Adjustable, Door bending 26mm

Product Notes:
- Leaves have a central guide to prevent door sagging during adjustment
- RH and LH application
- Zinc die - see Product System 4-110

Material:
- **Hinge:** Stainless Steel AISI 304



	Part No.
A) Pivot with □16	**222-9102**
B) Pivot with flap	**222-9104**

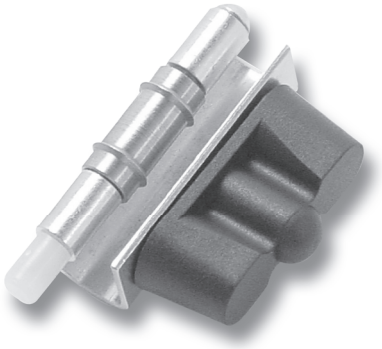
10-01-2012 © copyright by DIRAK / Germany

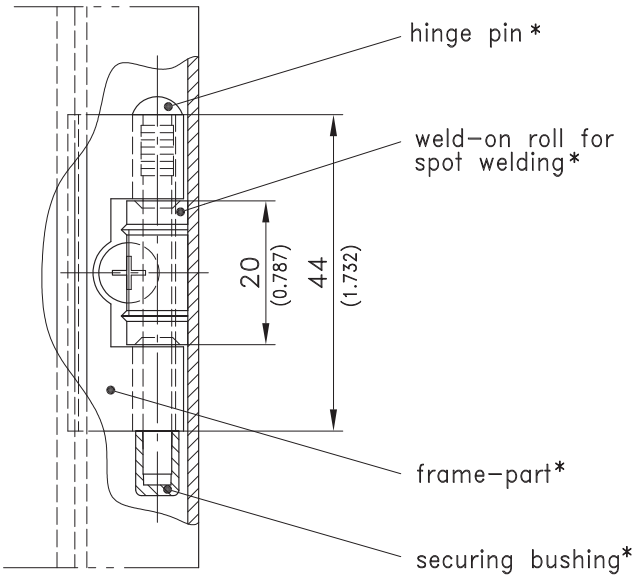
4-118 Concealed Hinge Pr03 125°

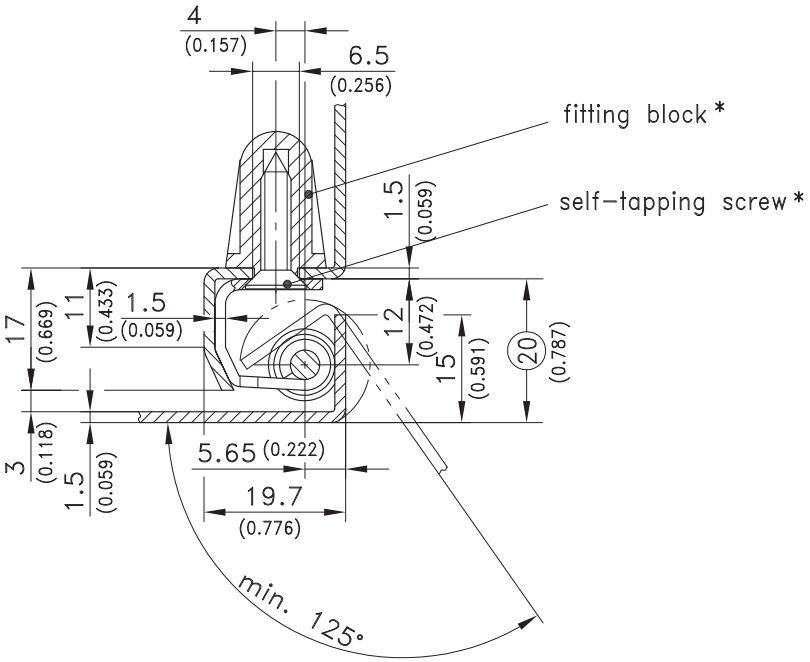
Surface mounted door, Door bending 20mm

Product Notes:
- Secured hinge pin
- 125° Opening angle
- RH and LH application
- Fitting block screw-on
- Stainless steel - see Product System 7-138

Material:
- **Frame leaf and hinge pin:** Steel, Zinc Plated
- **Weld-on roll:** Steel, Untreated
- **Fitting block:** PA, Black







	Part No.	See Page
Concealed Hinge with screw Philips DIN 7982 ISO 7050 4.2x19mm	**216-9015**	
Concealed Hinge with screw T-20 ISO 14586 form C 4.2x19mm	**216-9035**	
***included in hinge-set**		
Stainless steel version		**04.114**

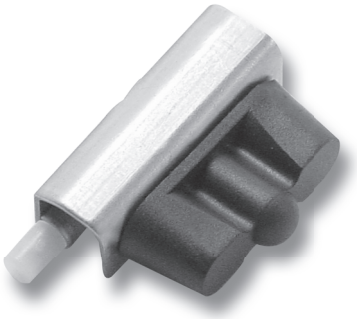
10-01-2012 © copyright by DIRAK / Germany

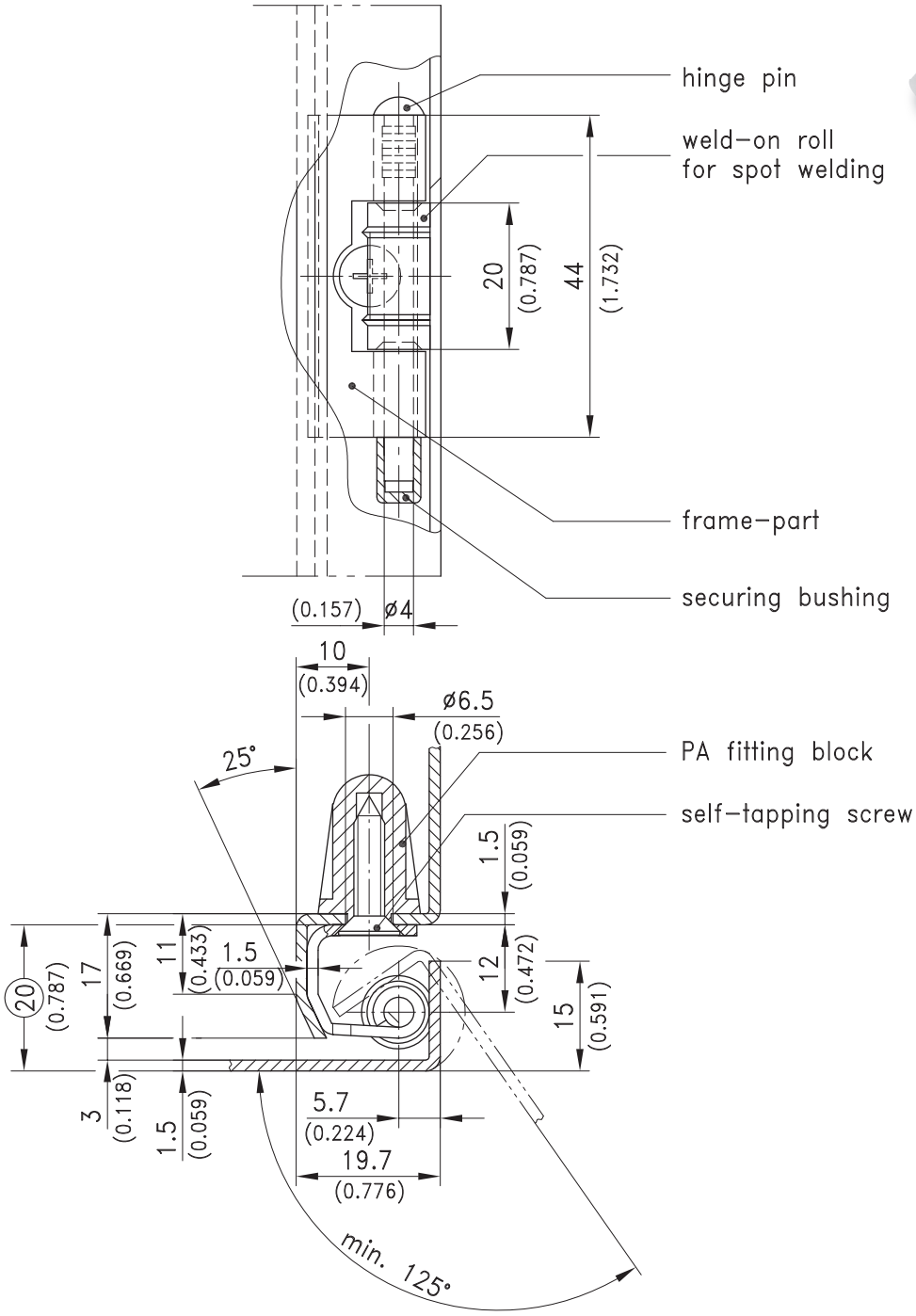
7-138 Concealed Hinge Pr03 125°

Surface mounted door, Stainless Steel, Door bending 20mm

Product Notes:
- RH and LH application
- 125° opening angle
- Hinge block can be screwed on
- Zinc die - see Product System 4-118

Material:
- **Fitting block:** PA, Black
- **Securing bushing:** POM
- **All other parts:** Stainless Steel AISI 304





	Part No.	See Page
Concealed Hinge with screw Philips DIN 7982 ISO 7050 4.2x19mm	**216-9113**	
Concealed Hinge with screw T-20 ISO 14586 form C 4.2x19mm	**216-9228**	
Concealed hinge in steel		**04.113**

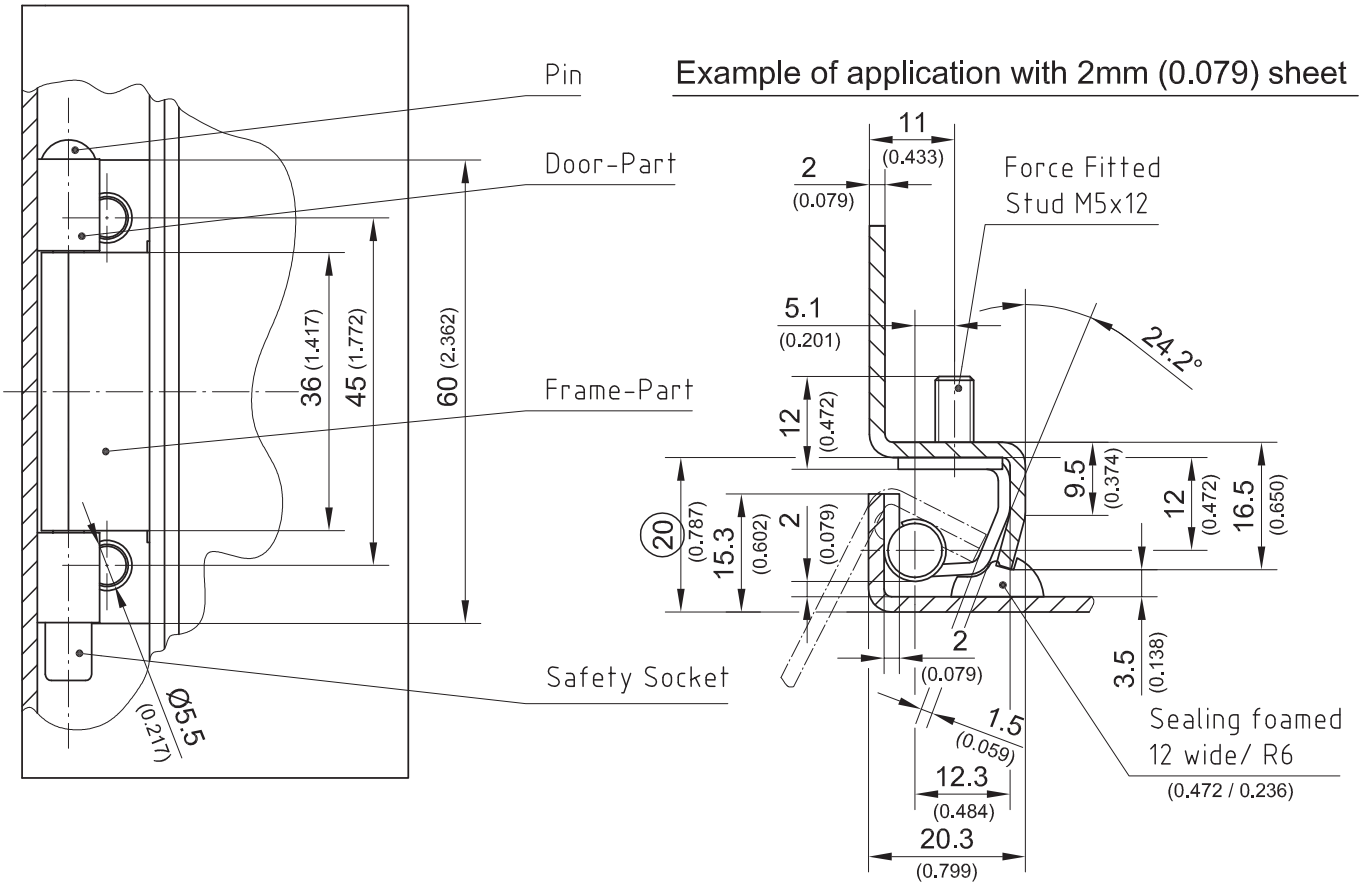
10-01-2012 © copyright by DIRAK / Germany

4-119 Concealed Hinge Pr03 120°

Surface mounted door, Door bending 20mm

Product Notes:
- Solid design
- 120° opening angle
- RH and LH application
- Frame leaf fastens to panel with press on M5 stud.
  Door leaf fastens to panel by welding at prepared welding spots
- Pin with PE safety socket.
- **NOTE:** When 1.5mm panels are used the assembly dimension changes - drawing available on request
- Stainless steel - see Product System 7-139

Material:
- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pin:** Stainless Steel
- **Safety socket:** PE



	Part No.	See Page
Concealed Hinge	**216-9032**	
Stainless steel version		**04.116**

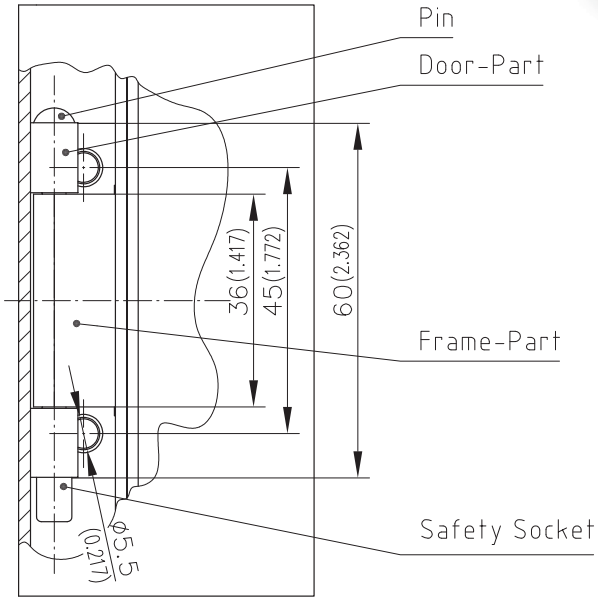
10-01-2012 © copyright by DIRAK / Germany

7-139 Concealed Hinge Pr03 120°

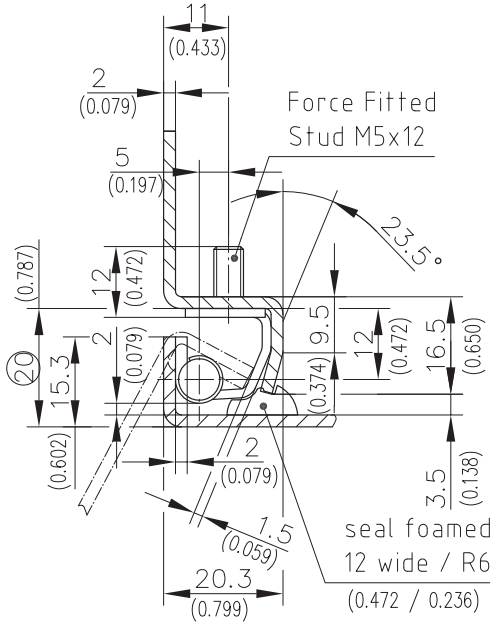
Surface mounted door, Stainless Steel, Door bending 20mm

Product Notes:
- 120° opening angle
- RH and LH application
- Fasten frame leaf to panel with force fitted M5 stud
  Fasten door leaf by welding at prepared welding spots.
- Pin with PE safety socket
- **NOTE:** When 1.5mm panels are used the assembly dimension changes - drawing available on request
- Zinc die- see Product System 4-119

Material:
- **Frame leaf, Door leaf and pin:** Stainless Steel AISI 304
- **Safety socket:** PE



Example of application with 2mm (0.079) sheet



	Part No.	See Page
Concealed Hinge	**216-9033**	
Steel version		**04.115**

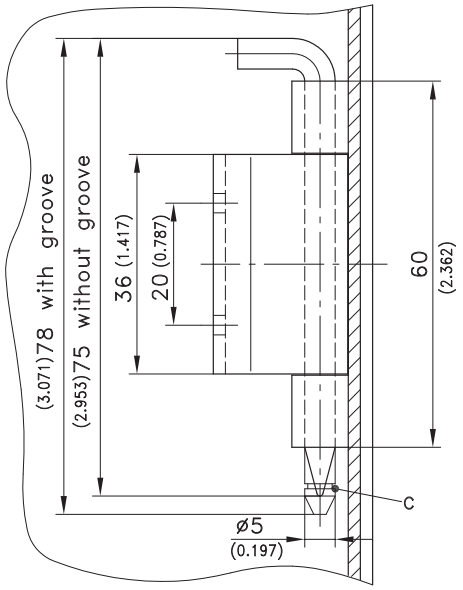
10-01-2012 © copyright by DIRAK / Germany

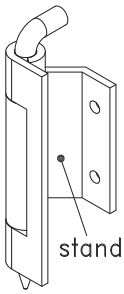
4-120 Concealed Hinge Pr03 120°

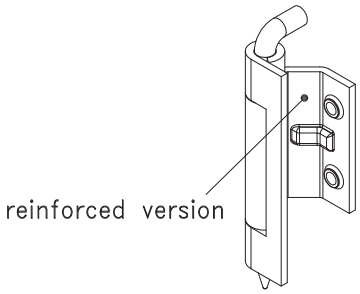
Surface mounted door, Door bending 20mm

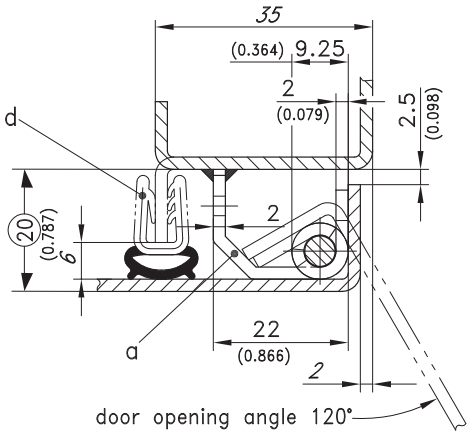
Product Notes:
- RH and LH application
- Frame leaf fastens to panel with screws or weld-on
- Stainless steel - see Product System 7-140

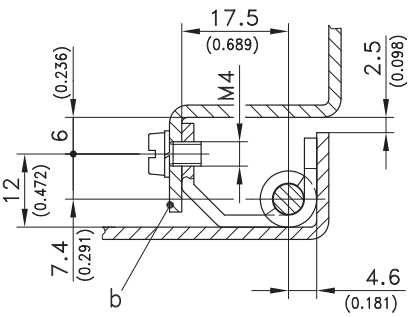
Material:
- **Leaves:** Steel, Untreated
- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pins:** Steel, Zinc Plated











	Standard Version	Reinforced Version	See Page
a) Hinge assembly, weld-on, pin without groove	216-9001	216-9020	
a1) as a), but pin with groove for retaining ring	216-9009	216-9018	
b) Hinge assembly, screw-on, pin without groove	216-9002	216-9021	
b1) as b), but pin with groove for retaining ring	216-9010	216-9019	
Please order separately:			
c) Retaining ring DIN 6799 RS4 for pin with groove	800-0137	800-0137	
Stainless steel version			04.118
d) Clip-on profile	209-0201	209-0201	05.12

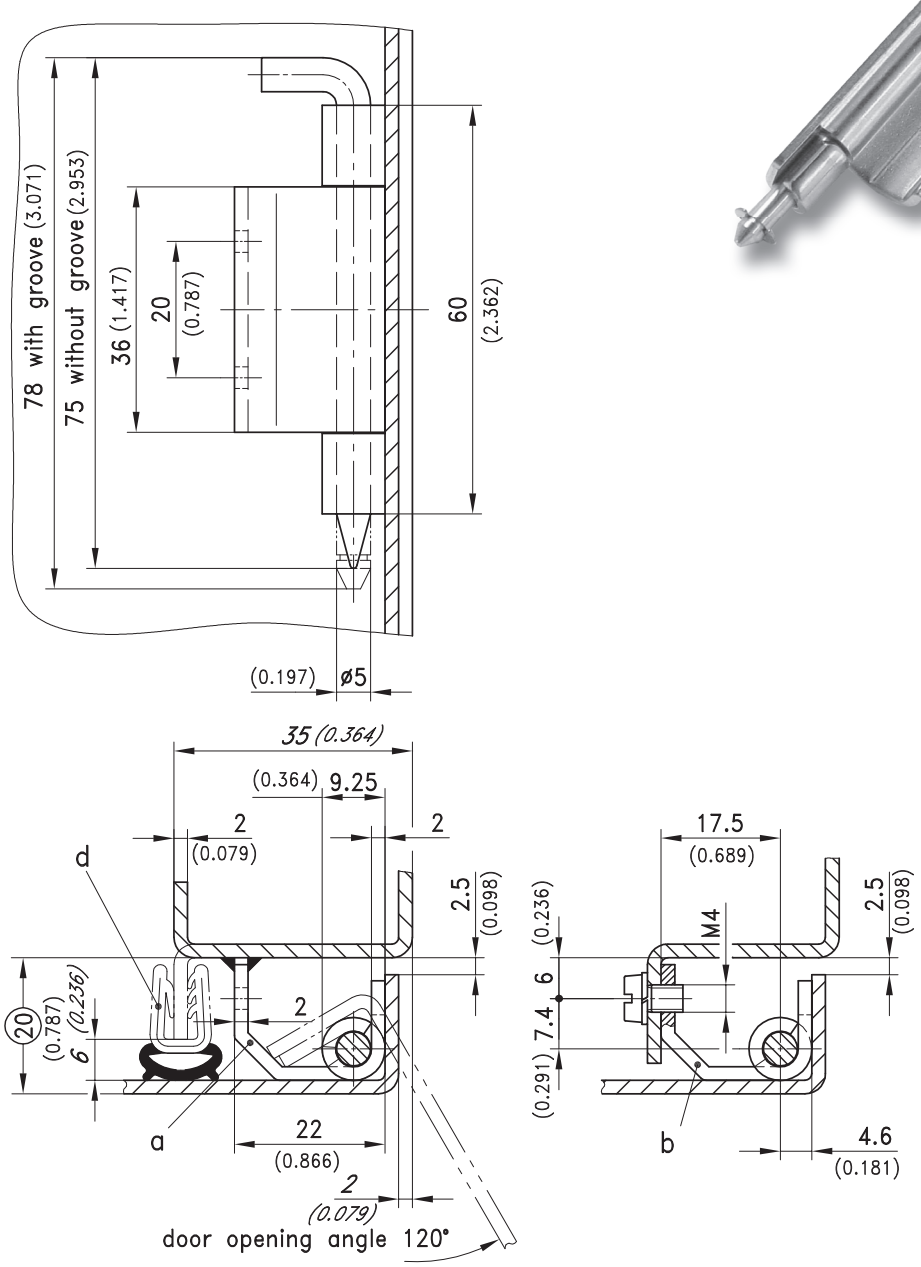
10-01-2012 © copyright by DIRAK / Germany

7-140 Concealed Hinge Pr03 120°

Surface mounted door, Stainless Steel, Door bending 20mm

Product Notes:.
- RH and LH application
- Zinc die - see Product System 4-120

Material:
- **Hinge parts:** Stainless Steel AISI 304
- **Pin:** Stainless Steel AISI 303 or 316L



Version	Material Hinge Leaves	Material Pin	Part No.	See Page
a) Hinge, weld-on, pin without groove	AISI 304	AISI 303	216-9101	
a1) as a), but pin with groove for retaining ring	AISI 304	AISI 303	216-9109	
b) Hinge, screw-on, pin without groove	AISI 304	AISI 303	216-9102	
b1) as b), but pin with groove for retaining ring	AISI 304	AISI 303	216-9110	
b2) as b1)	AISI 316L	AISI 316L	216-9121*	
Optional:				
c) Retaining ring DIN 6799 RS4 for versions a1), b1) and b2)			800-0138	
d) Clip-on profile			209-0201	05.12
* Only on request				

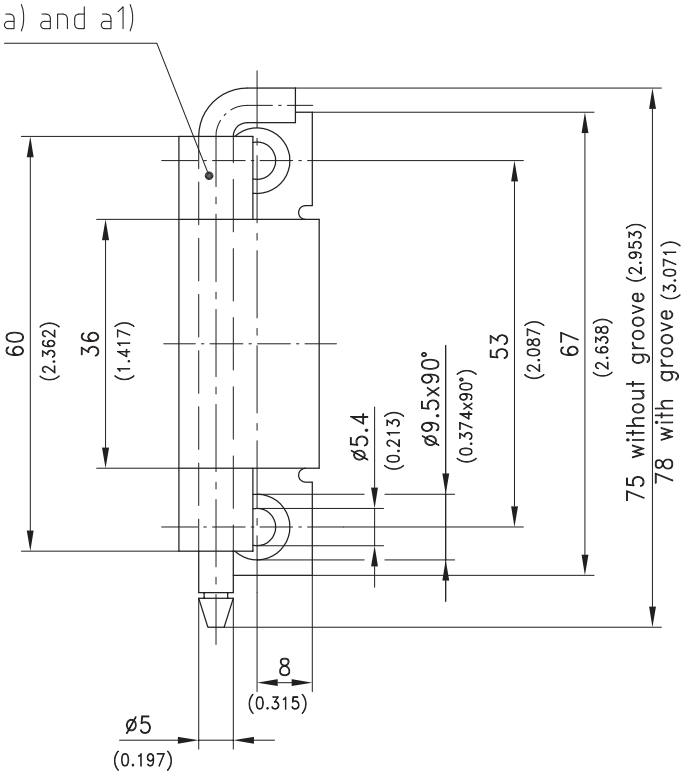
10-01-2012 © copyright by DIRAK / Germany

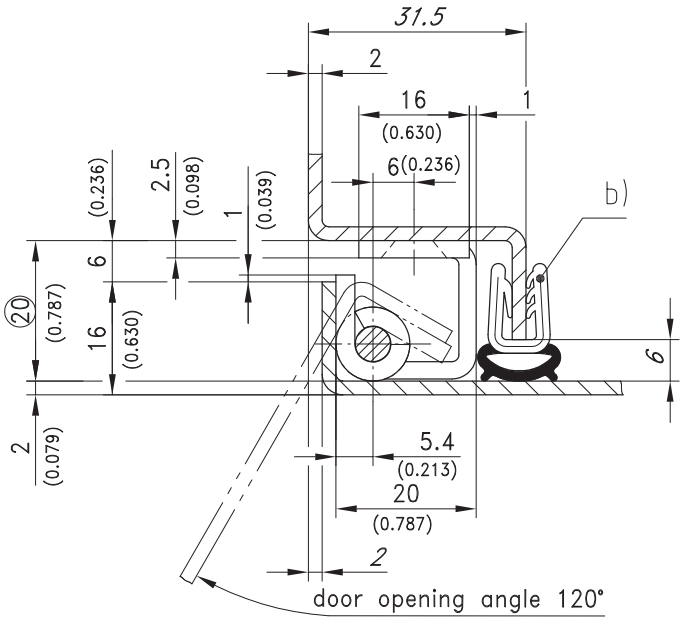
4-122 Concealed Hinge Pr03 120°

Surface mounted door, Door bending 20mm

Product Notes:
- RH and LH application
- Stainless steel - see Product System 7-145

Material:
- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pin:** Steel, Zinc Plated





120° Concealed Hinge	Part No.	See Page
a) Pin without groove	216-9005	
a1) Pin with groove (incl. c-clip)	216-9022	
Stainless steel version		04.120
b) Clip-on profile	209-0201	05.12

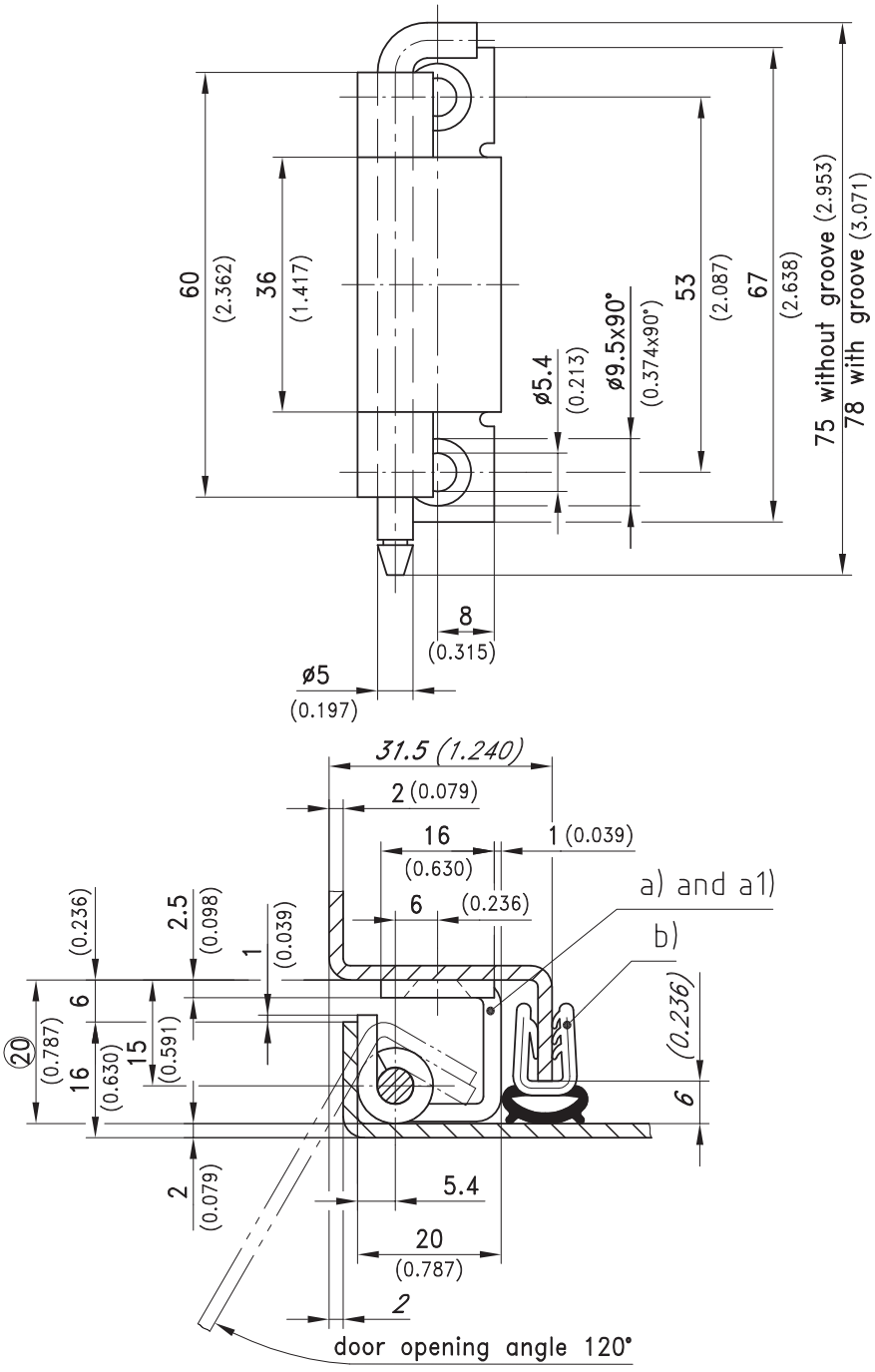
10-01-2012 © copyright by DIRAK / Germany

7-145 Concealed Hinge Pr03 120°

Surface mounted door, Stainless Steel, Door bending 20mm

Product Notes:
- RH and LH application
- 120° opening angle
- Zinc die - see Product System 4-122

Material:
- **Hinge parts and pin:** Stainless Steel AISI 304



120° Concealed Hinge	Part No.	See Page
a) Pin without groove	216-9115	
a1) Pin with groove (incl. C-clip)	216-9116	
b) Clip-on profile	209-0201	05.12

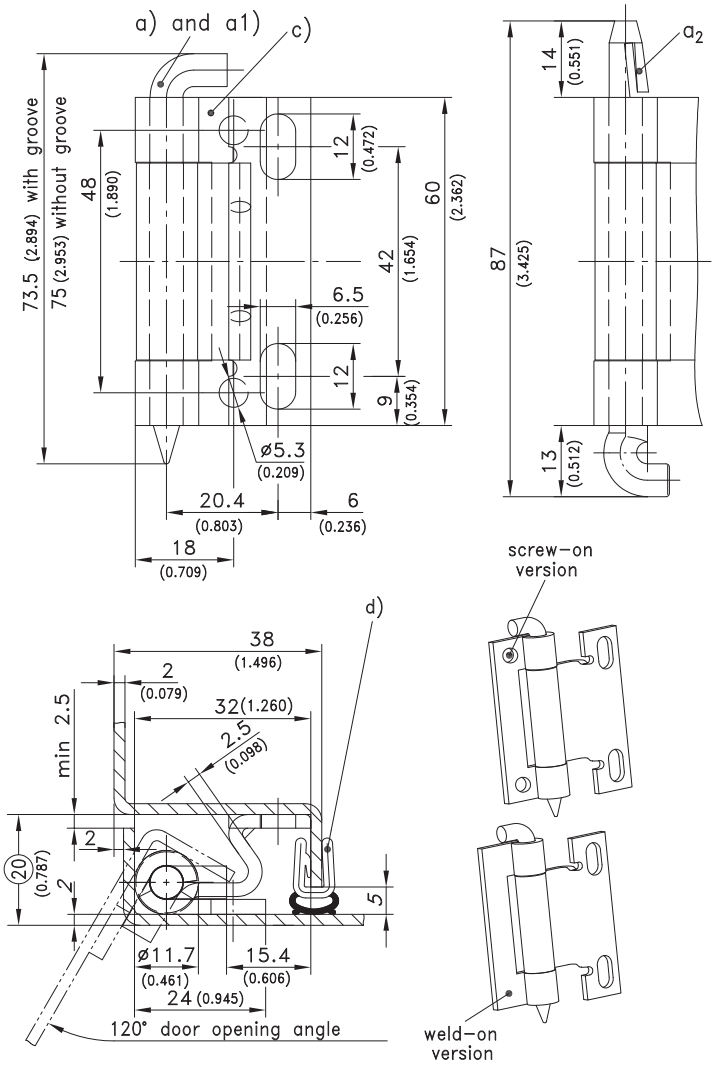
10-01-2012 © copyright by DIRAK / Germany

4-130 Concealed Hinge Pr03 120°

Surface mounted door, Door bending 20mm

Product Notes:
- RH and LH application
- The width of the door leaf allows for spot welding
- Hinge can be supplied with a self-securing POM pin that can be mounted upside down for short enclosures
- Fasten door leaf to panel with screws or welding.
  Fasten frame leaf to panel with screws

Material:
- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pin:** Steel, Zinc Plated or POM



120° Hinge, Door bending 20	Door Leaf Screw-on	Door Leaf Weld-on	See Page
a) Pin without groove	216-9003	216-9024	
a1) Pin with groove for retaining ring	216-9011	216-9025	
a2) Pin POM self-securing	216-9006	216-9026	
Order separately:			
b) Retaining ring DIN 6799 RS4 for pin with groove	800-0137	800-0137	
c) Door leaf like roll Ø6			04.104
d) Clip-on profile	209-0205	209-0205	05.12
Stainless steel version			04.122

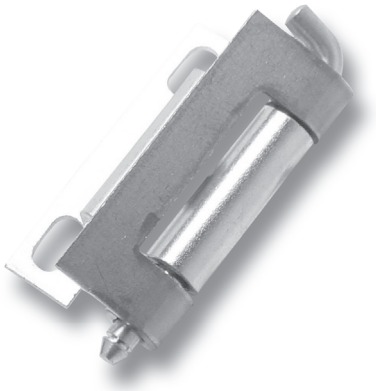
10-01-2012 © copyright by DIRAK / Germany

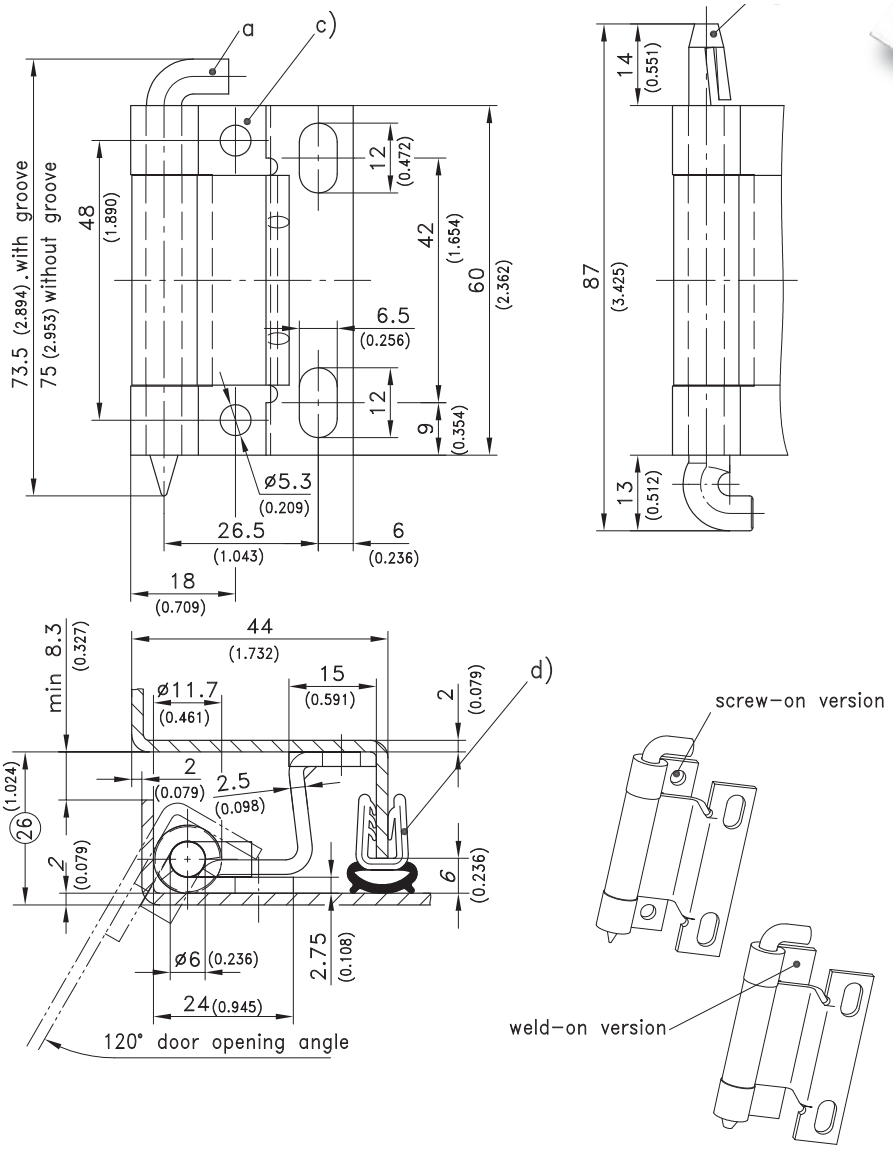
4-140 Concealed Hinge Pr03 120°

Surface mounted door, Door bending 26mm

Product Notes:
- RH and LH application
- For short enclosures a self-securing POM pin that is mounted from the bottom can be supplied
- Frame leaf fastens to panel with screws
  Door leaf fastens to panel with screws or weld-on

Material:
- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pin:** Steel, Zinc Plated or POM





120° Hinge, Door bending 26	Door Leaf Screw-on	Door Leaf Weld-on	See Page
a) Pin without groove	216-9004	216-9029	
a1) Pin with groove for retaining ring	216-9012	216-9028	
a2) Pin POM self-securing	216-9007	216-9030	
Please order separately:			
b) Retaining ring DIN 6799 RS4 for pin with groove	800-0137	800-0137	
Stainless steel version			04.124
c) Door leaf like roll Ø6			04.104
d) Clip-on profile		209-0201	05.12

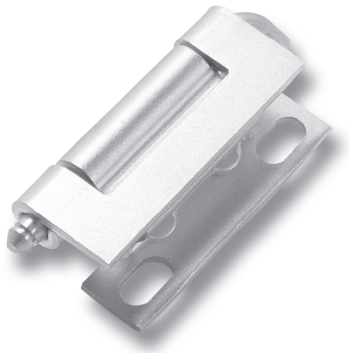
10-01-2012 © copyright by DIRAK / Germany

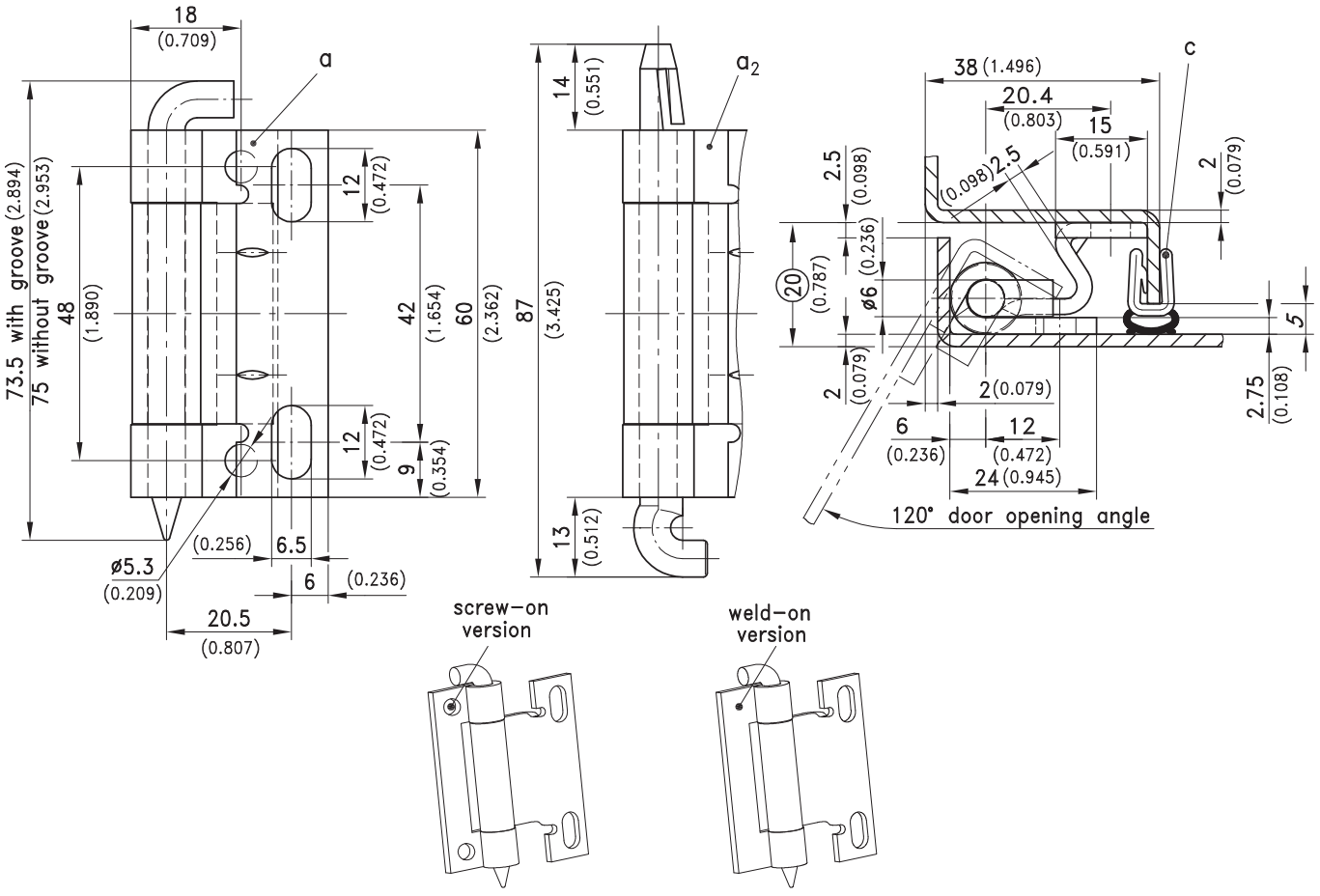
7-150 Concealed Hinge Pr03 120°

Surface mounted door, Stainless Steel, Door bending 20mm

Product Notes:
- RH and LH application
- Frame leaf fastens to panel with screws
  Door leaf fastens to panel with screws or weld-on
- POM pin is self-securing

Material:
- **Hinge, pin:** Stainless Steel AISI 304
- **Pin:** POM





	120° Concealed Hinge	Door Leaf - Screw-on	Door Leaf - Weld-on	See Page
a)	Pin without groove, Stainless Steel	216-9103	216-9120	
a1)	Pin with groove for retaining ring, Stainless Steel	216-9111	216-9125	
a2)	Pin, POM	216-9105	216-9123	
	Optional:			
b)	Retaining ring DIN 6799 RS4 for versions a1)	800-0138	800-0138	
c)	Clip-on profiles	209-0205	209-0205	05.12

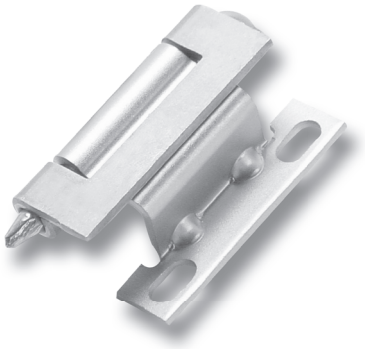
10-01-2012 © copyright by DIRAK / Germany

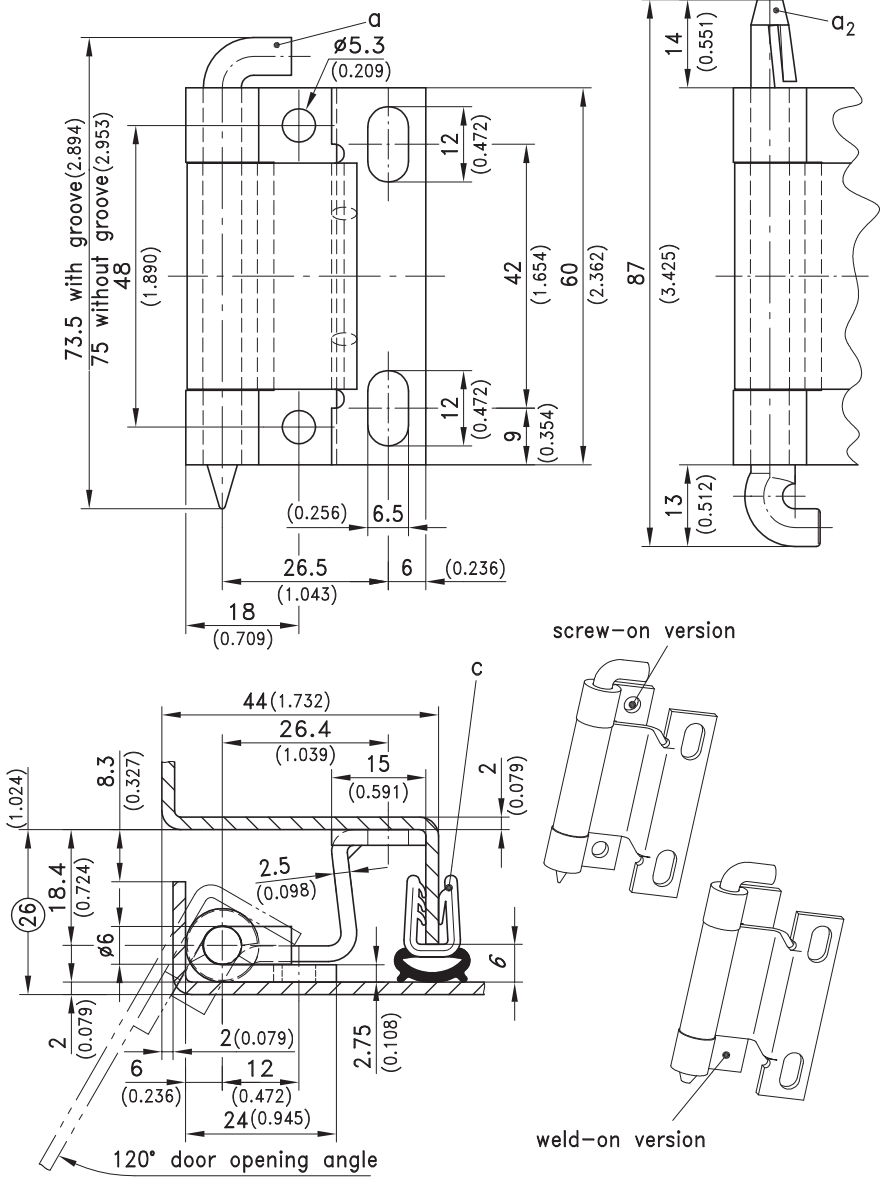
7-160 Concealed Hinge Pr03 120°

Surface mounted door, Stainless Steel, Door bending 26mm

Product Notes:
- RH and LH application
- Fasten frame leaf to panel with screws
  Fasten door leaf to panel with screws or welding
- POM pin is self-securing

Material:
- **Hinge leafs:** Stainless Steel AISI 304
- **Pin:** Stainless Steel AISI 304 or POM





	120° Concealed Hinge	Door Leaf - Screw-on	Door Leaf - Weld-on	See Page
a)	Pin without groove, Stainless Steel	216-9104	216-9122	
a1)	Pin with groove for retaining ring, Stainless Steel	216-9112	216-9126	
a2)	Pin, POM	216-9106	216-9124	
	Optional:			
b)	Retaining ring DIN 6799 RS4 for versions a1)	800-0138	800-0138	
c)	Clip-on profile	209-0201	209-0201	05.12

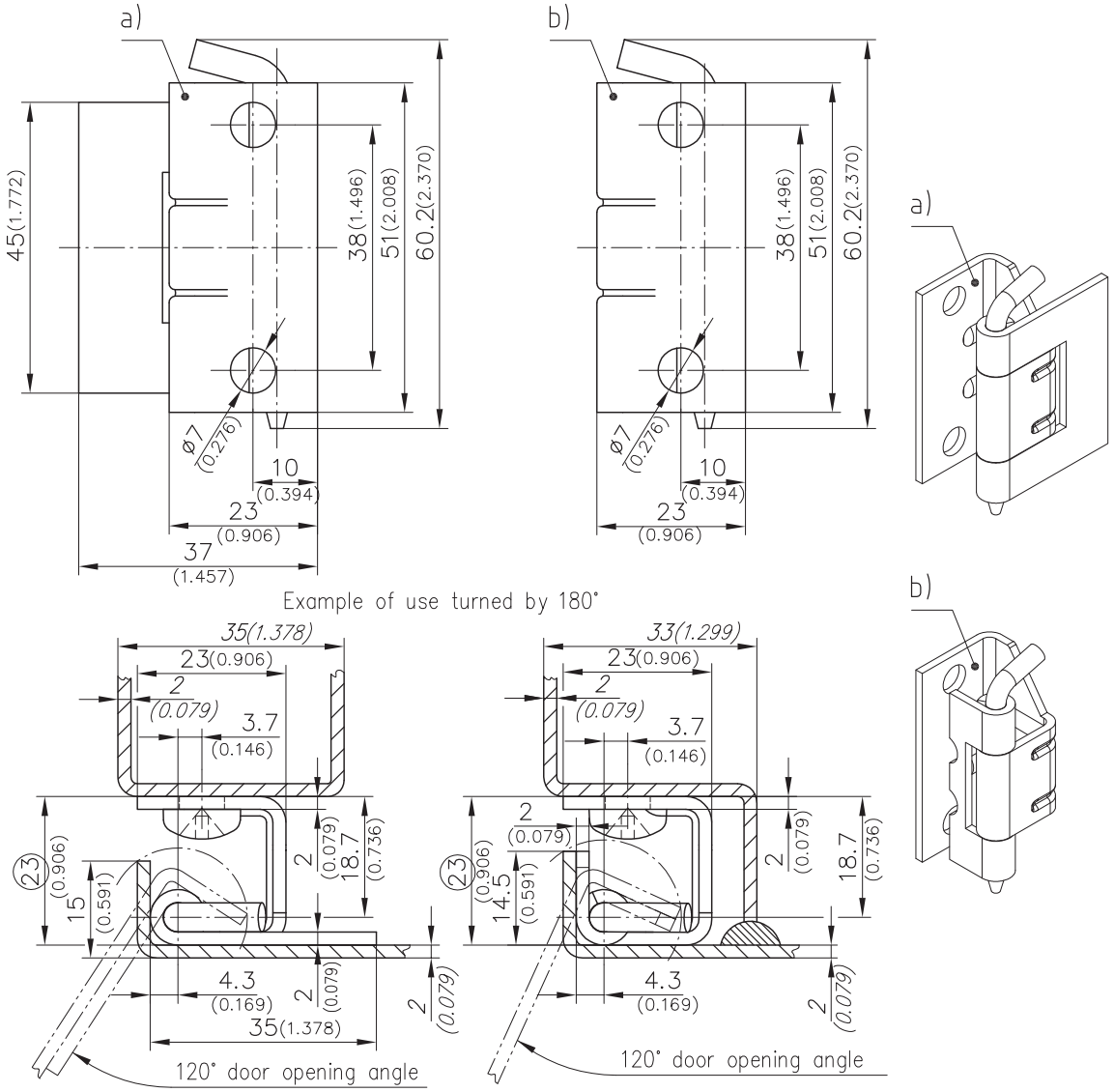
10-01-2012 © copyright by DIRAK / Germany

4-135 Concealed Hinge Pr03 120°

Surface mounted door,Door bending 23mm

Product Notes:
- Concealed
- 120° opening angle
- Two different fastenings on the door:
  1) Door leaf weld-on the door.
  2) Door leaf weld-on the bending.
- RH and LH application
- Frame leaf fastens to panel with cross recessed raised cheese head M6 DIN-EN-ISO 7045 screw

Material:
- **Door leaf:** Steel, Untreated
- **Frame leaf:** Steel, Zinc Plated
- **Pin:** Steel, Zinc Plated



Version	Part No.
a) Hinge	216-9008
b) Hinge	216-9013

10-01-2012 © copyright by DIRAK / Germany

4-124 Concealed Hinge Pr03 120°

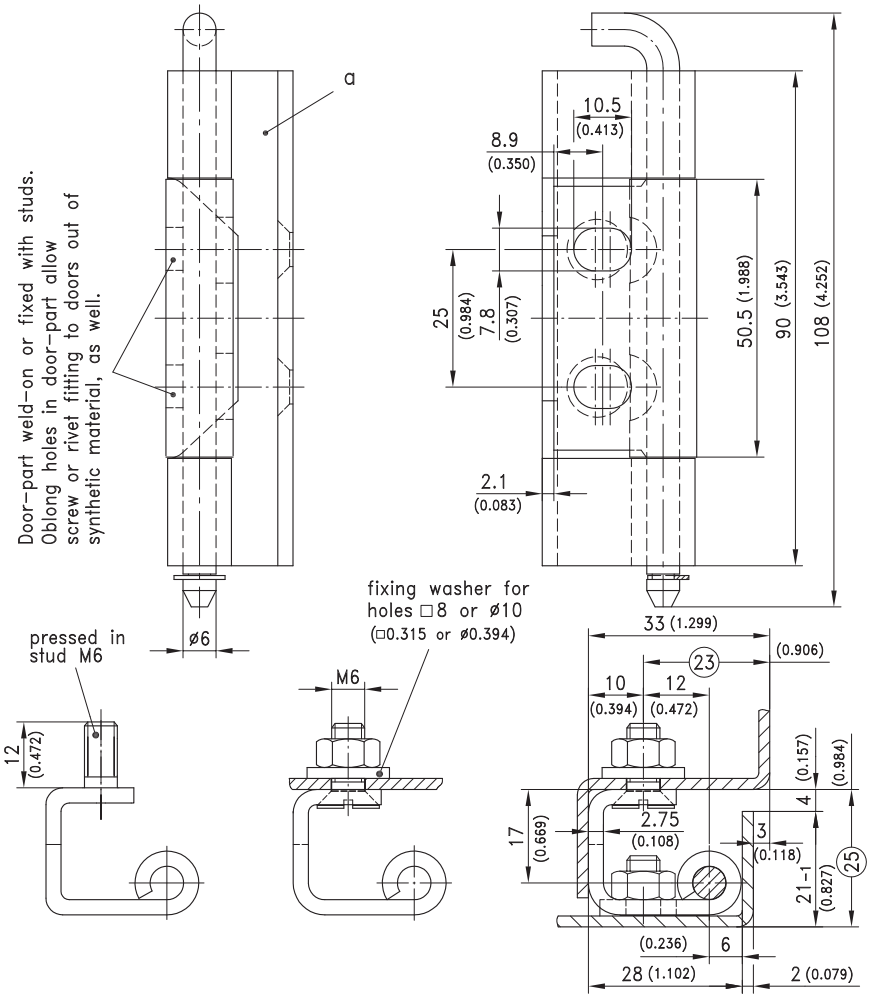
Surface mounted door, Door bending 25mm

Product Notes:

- Use with rod latch system - see Product System 3-170
- RH and LH application
- Other zinc die - see Product System 4-125, 4-124SL and 4-125SL
- Tool-less installation - see Product System 4-124SL, 4-125SL and 7-164SL
- Stainless steel - see Product System 7-164SL, 7-165 and 7-166

Material:

- **Frame leaf:** Steel, Zinc Plated
- **Door leaf:** Steel, Untreated
- **Pins:** Steel, Zinc Plated
  add. by a1)
- **Fastening washer:** Steel, Zinc Plated
- **all parts:** Steel, Zinc Plated



		Part No.		
Door leaf steel, untreated, weld-on	**Frame Holes**	**Pin Standard**	**Pin with Groove**	**See Page**
a) Frame leaf countersunk for M6	**Ø6.3 or M6**	**243-9103**	**243-9104**	
a1) as a), but with fastening washer	**□8 or Ø10**	**243-9101**	**243-9102**	
a2) as a) and a1), but with pressed in stud M6 and fastening washer	**Ø6.3,□8, Ø10**	**243-9109**	**243-9110**	
Door leaf steel, zinc plated, screw-on				
b) Frame leaf with countersunk for M6	**Ø6.3 or M6**	**243-9107**	**243-9108**	
b1) Frame leaf as b), but with fastening washer	**□8 or Ø10**	**243-9105**	**243-9106**	
b2) as b) and b1) but with pressed in stud M6 and fastening washer	**Ø6,3,□8, Ø10**	**243-9111**	**243-9112**	
Stainless steel version				**04.131**
Countersunk machine screws and nuts				**10.23**

10-01-2012 © copyright by DIRAK / Germany

4-124SL Concealed Hinge Pr03 SNAP-LINE 130°

Frame leaf tool-less installation, Surface mounted door, IP65, Lift-off, Door bending 25mm

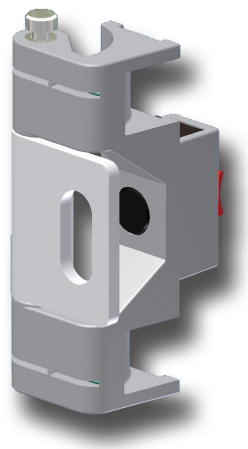
IP 65 | 130° | DIRAK RoHS WEEE compliant | D-SNAP technology

Product Notes:

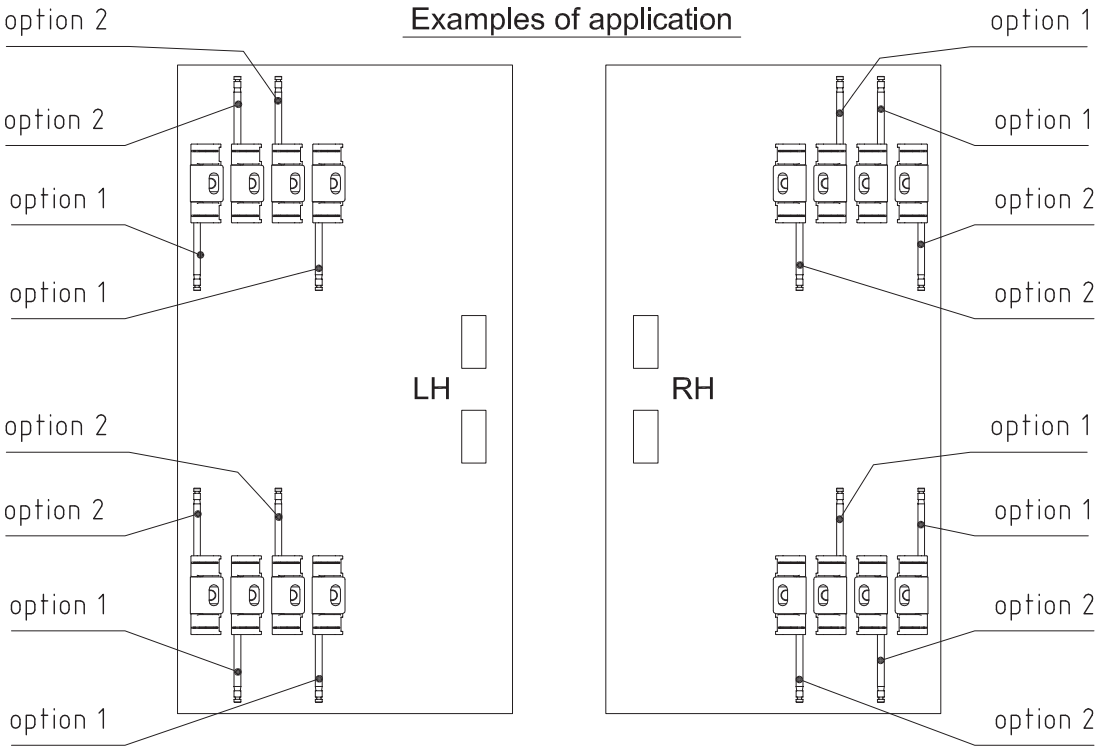
- 130° opening angle
- RH and LH application
- By pulling the pin the door leaf is released for door removal
- The pin is captive in frame leaf
- Options allow for a pin to be pre-assembled in top or bottom
- Installed by a simple push into the cutout
- Water and dust tight according to IP65, DIN EN 60529 with O-rings
- Oblong hole in the door leaf allows ±5mm vertical adjustment
- For similar product with additional door lift-off feature - see Product System 4-125SL.
- Other zinc die - see Product System 4-124, 4-125 and 4-125SL
- Screw-on - see Product System 4-124, 4-125, 7-165 and 7-166
- Stainless steel - see Product System 7-164SL, 7-165, 7-166

Material:

- **Frame leaf:** Zinc Die, Untreated
- **Door leaf:** Steel, Zinc Plated
- **Pin:** Steel, Zinc Plated
- **Wings:** Sintered Metal, Coated
- **O-Ring:** NBR



Examples of application



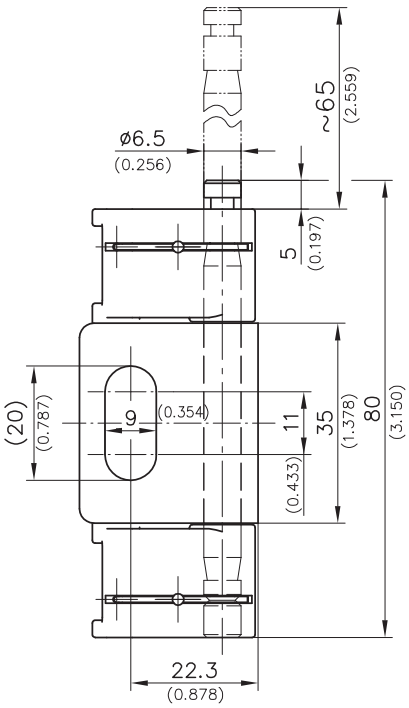
Depending on the shown options, the captive pin is pre-assembled from the top or upside-down. The chart below shows the options for LH and RH doors.

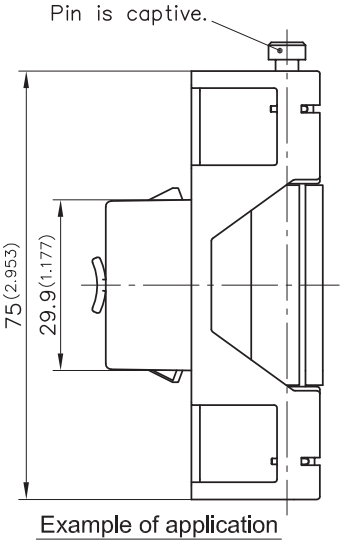
	Clamping Range Ⓢ	Option 1 LH, Bottom Pin RH, Top Pin	Option 2 LH, Top Pin RH, Bottom Pin	See Page
Concealed Hinge	**1.2 - 1.7**	**443-9001.00-20015**	**443-9001.00-10015**	
	1.7 - 2.2	**443-9001.00-20020**	**443-9001.00-10020**	
	2.2 - 2.7	**443-9001.00-20025**	**443-9001.00-10025**	
	2.7 - 3.2	**443-9001.00-20030**	**443-9001.00-10030**	
	3.0 - 3.5	**443-9001.00-20033**	**443-9001.00-10033**	
Cover for cutout 30x14mm		**292-0402.00-03014**	**292-0402.00-03014**	**10.14**
Reinforcement plate for cutout 30x14 and 30x15mm		**292-0701.15-01530**	**292-0701.15-01530**	**10.16**
Tool for uninstallation		**292-0306.80-02530**	**292-0306.80-02530**	**10.17**
Tool for uninstallation		**292-0301.15-00000**	**292-0301.15-00000**	**10.17**

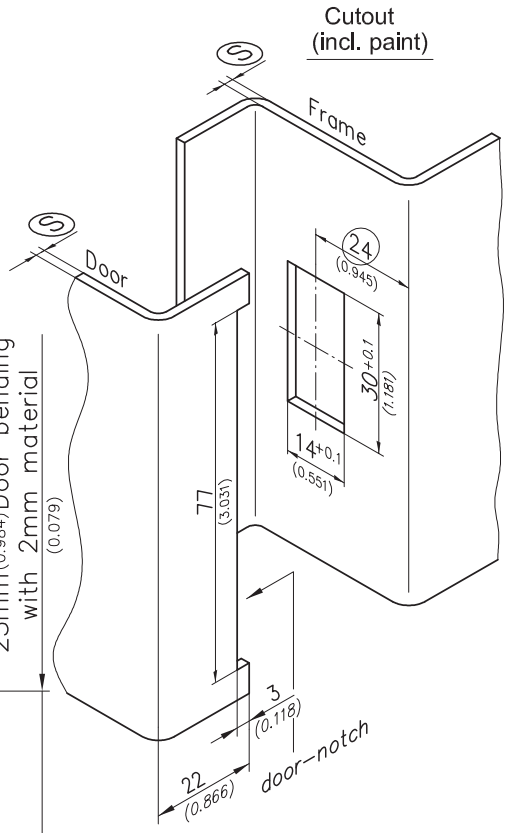
10-01-2012 © copyright by DIRAK / Germany

4-124SL Concealed Hinge Pr03 SNAP-LINE 130°

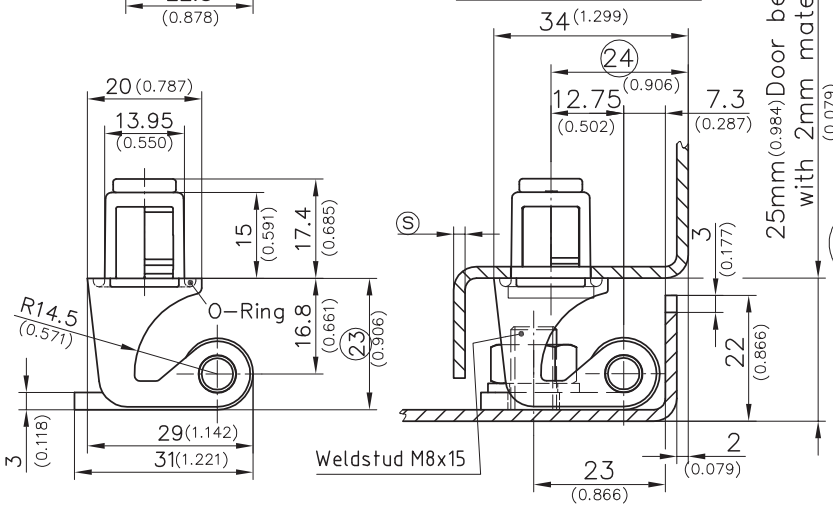
Frame leaf tool-less installation, Surface mounted door, IP65, Lift-off, Door bending 25mm

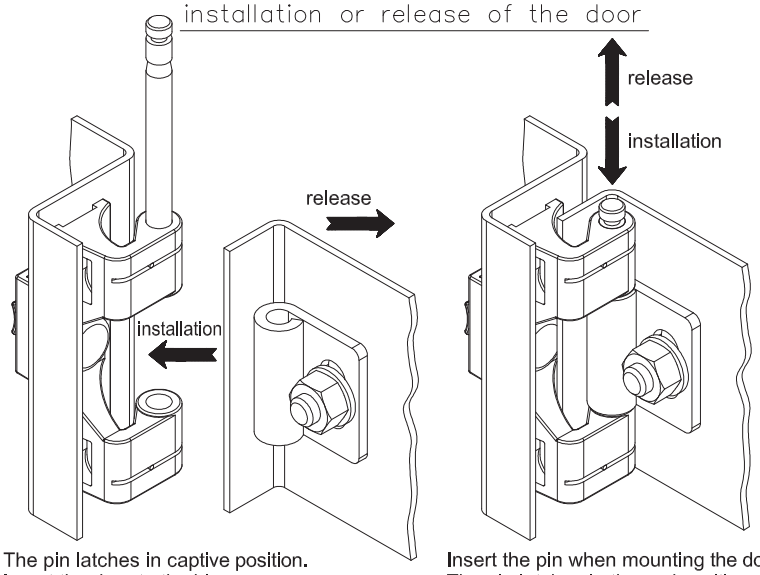






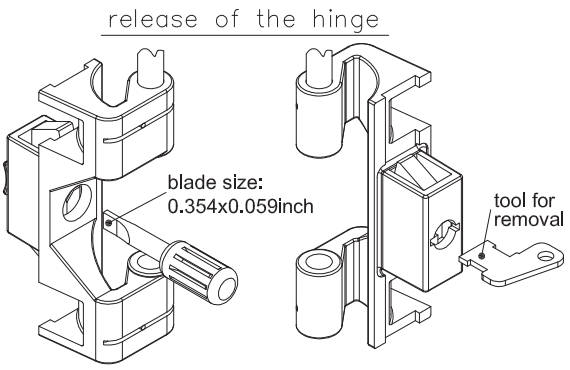
Example of application





The pin latches in captive position.
Insert the door to the hinge.

Insert the pin when mounting the door.
The pin latches in the end position.



release from the front
(remove black plug)

release from the rear
(remove red plug)

10-01-2012 © copyright by DIRAK / Germany

7-165 Concealed Hinge Pr03 120°

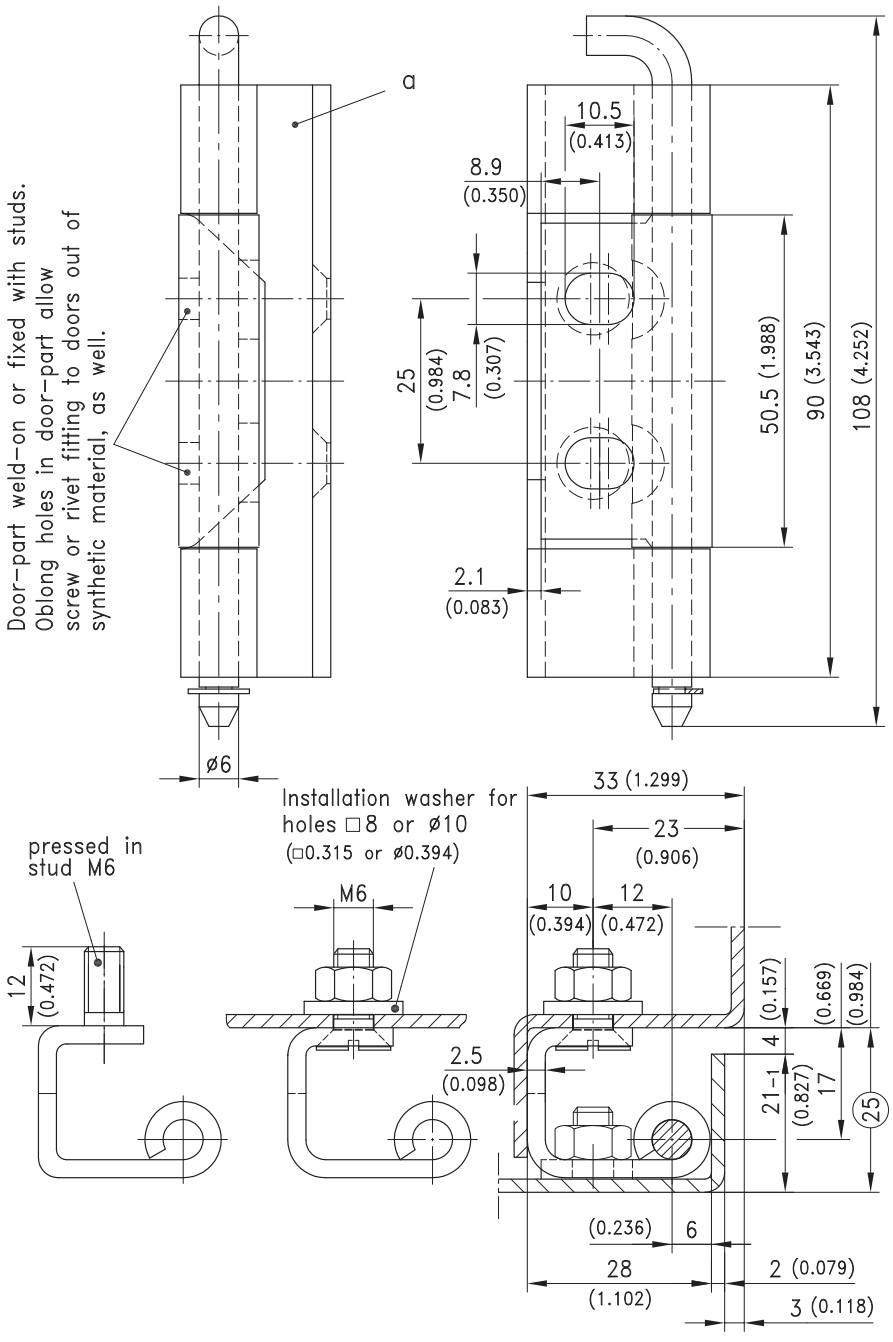
Surface mounted door, Stainless Steel, Heavy duty, Door bending 25mm

Product Notes:

- RH and LH application
- Zinc die - see Product System 4-124, 4-124SL, 4-125 and 4-125SL
- Tool-less installation- see Product System 4-124SL, 4-125SL and 7-164SL
- Other stainless steel - see Product System 7-164SL and 7-166

Material:

- **Frame leaf, door leaf, pin and installation washer:** Stainless Steel AISI 304



Version	Frame Holes	Pin Standard	Pin With Groove
a) Frame leaf with coutersunk holes for M6 screws	**Ø6.3 or M6**	**243-9203**	**243-9204**
a1) as a), but with installation washer	**□ 8 or Ø10**	**243-9201**	**243-9202**
a2) as a) and a1), but with pressed in M6 stud	**Ø6.3, □8, Ø10**	**243-9208**	**243-9209**

10-01-2012 © copyright by DIRAK / Germany

7-164SL Concealed Hinge Pr03 SNAP-LINE 130°

Tool-less installation, Surface mounted door, Stainless Steel, IP65, Lift-off, Door bending 25mm

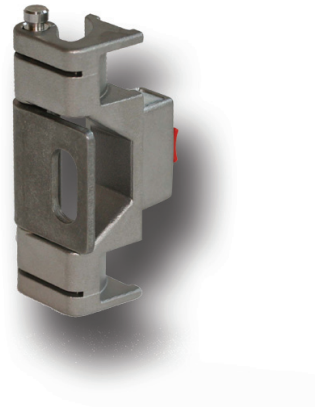
Product Notes:

- RH and LH application
- By pulling the pin the door leaf is released for door removal
- The pin is captive in frame leaf
- Options allow for a pin to be pre-assembled in top or bottom
- Installed by a simple push into the cutout
- Water and dust tight according to IP65, DIN EN 60529 with O-rings
- Oblong hole in the door leaf allows ±5mm vertical adjustment

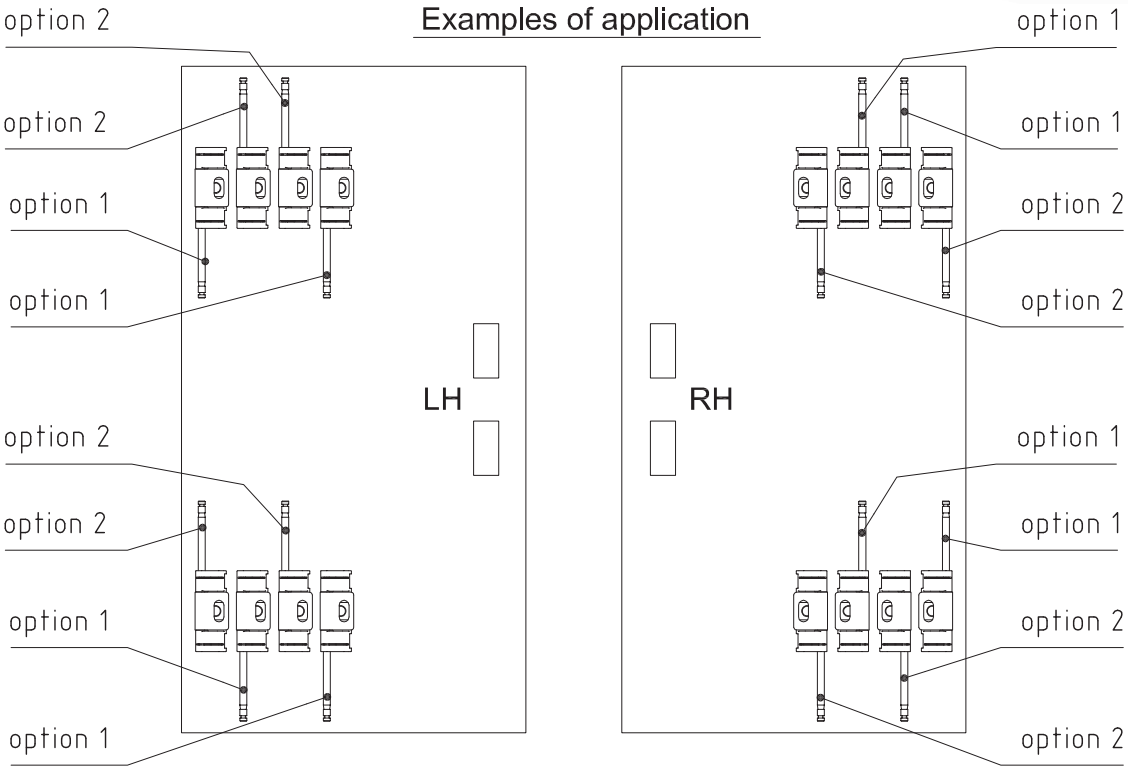
- Zinc die - see Product System 4-124, 4-124SL, 4-125 and 4-125SL
- Screw-on - see Product System 4-124, 4-125, 7-165 and 7-166
- Other stainless steel - see Product System 7-165 and 7-166

Material:

- **Frame leaf:** Stainless Steel AISI 316
- **Door leaf:** Stainless Steel AISI 316
- **Pin:** Stainless Steel AISI 304
- **Wings:** Stainless Steel
- **O-Ring:** NBR, Black



Examples of application



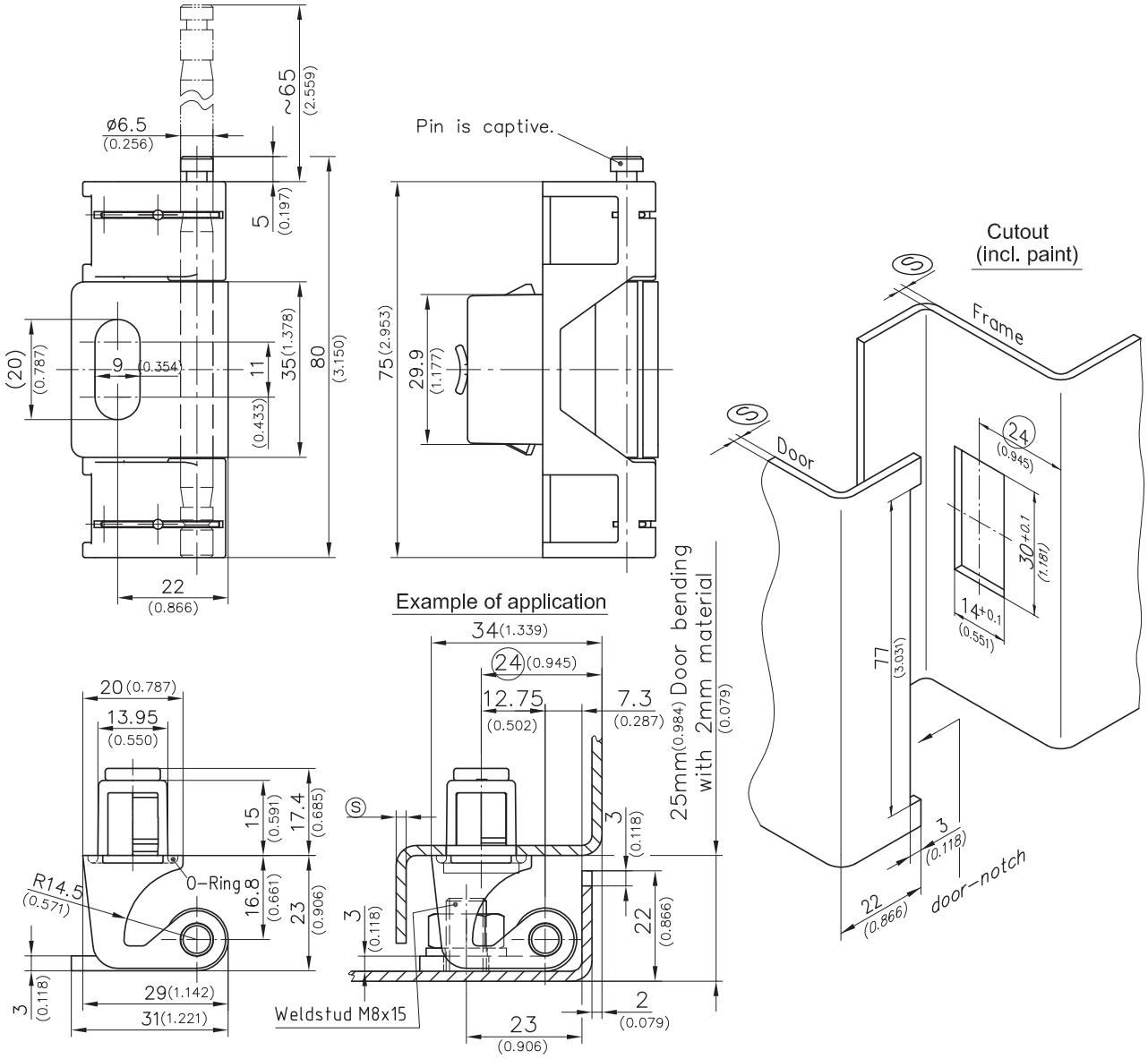
Depending on the shown options, the captive pin is pre-assembled from the top or upside-down. The chart below shows the options for LH and RH doors.

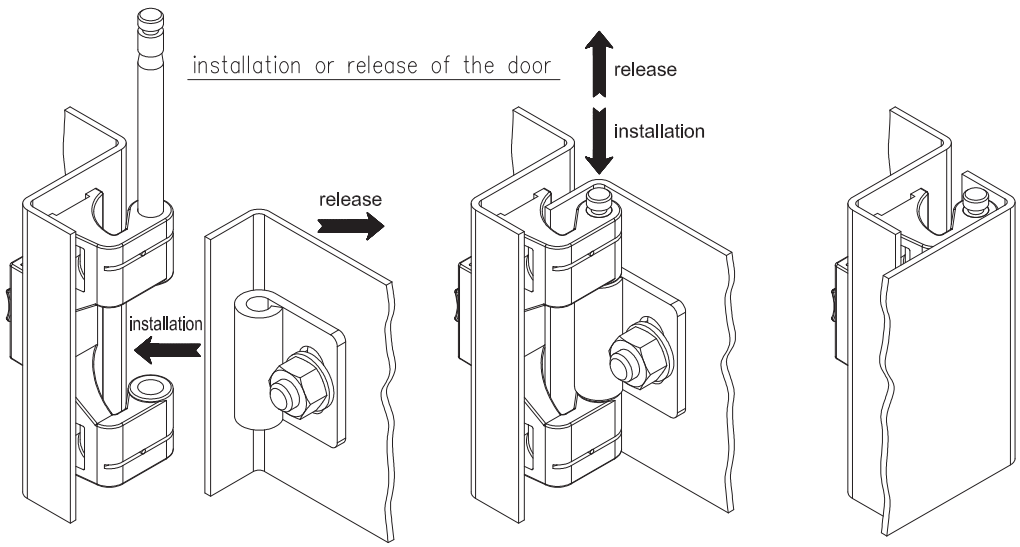
	Clamping Range Ⓢ	Part No. Option 1 LH, Bottom Pin RH, Top Pin	Part No. option 2 LH, Top Pin RH, Bottom Pin	See Page
Concealed Hinge	**1.2 - 1.7**	**443-9002.00-20015**	**443-9002.00-10015**	
	1.7 - 2.2	**443-9002.00-20020**	**443-9002.00-10020**	
	2.2 - 2.7	**443-9002.00-20025**	**443-9002.00-10025**	
	2.7 - 3.2	**443-9002.00-20030**	**443-9002.00-10030**	
	3.0 - 3.5	**443-9002.00-20033**	**443-9002.00-10033**	
Cover for cutout 30x14mm		**292-0402.00-03014**	**292-0402.00-03014**	**10.14**
Reinforcement plate for cutout 30x14 and 30x15mm		**292-0701.15-01530**	**292-0701.15-01530**	**10.16**
Tool for uninstallation		**292-0306.80-02530**	**292-0306.80-02530**	**10.17**
Tool for uninstallation		**292-0301.15-00000**	**292-0301.15-00000**	**10.17**

10-01-2012 © copyright by DIRAK / Germany

7-164SL Concealed Hinge Pr03 SNAP-LINE 130°

Tool-less installation, Surface mounted door, Stainless Steel, IP65, Lift-off, Door bending 25mm





The pin latches in captive position.
Insert the door to the hinge.

Insert the pin when mounting the door.
The pin latches in the end position.

Assembled and
door closed.

10-01-2012 © copyright by DIRAK / Germany

4-125 Concealed Hinge Pr03 120°

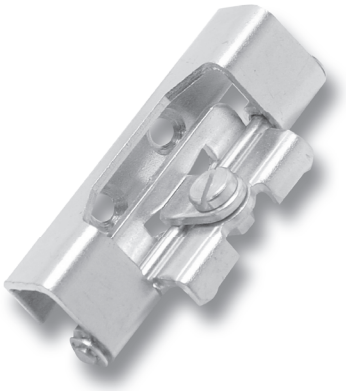
Surface mounted door, Lift-off, Door bending 25mm

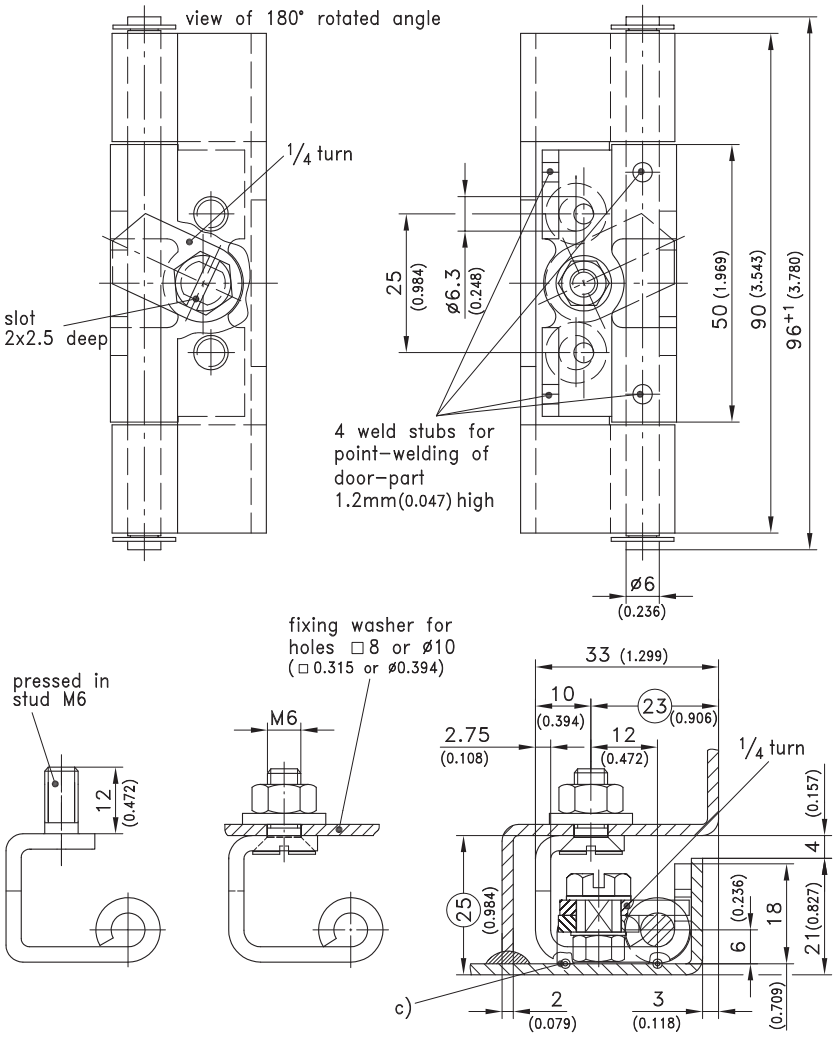
Product Notes:

- RH and LH application
- By rotating the pivot pin 1/4 turn, the pivot pin is released and the door can be removed
- Do not use fasten washer with Ø6.3.
- Other Zinc die - see Product System 4-124, 4-124SL and 4-125SL
- Tool-less installation- see Product System 4-124SL, 4-125SL and 7-164SL
- Stainless steel - see Product System 7-164SL 7-165 and 7-166

Material:

- **All parts:** Steel, Zinc Plated
- **Door leaf and ¼ turn:** Zinc Die, Zinc Plated
- **Frame leaf:** Steel, Zinc Plated





Version with weld-on door leaf	Frame Holes	Part No.	See Page
a) Frame leaf countersunk for M6	Ø6.3 or M6	243-9003	
a1) as a), but with fastening washer	□8 or Ø10	243-9002	
a2) as a) and a1), but with pressed in stud M6 and fastening washer if necessary	Ø6.3,□8, Ø10	243-9007	
Version with screw-on door leaf			04.139
b) Frame leaf countersunk for M6	Ø6.3 or M6	243-9009	
b1) as b), but with fastening washer	□8 or Ø10	243-9010	
b2) as b) and b1), but with pressed in stud M6 and fastening washer	Ø6.3,□8, Ø10	243-9011	
c) 1/4 turn			04.139
Stainless steel version			04.138
Countersunk machine screws and nuts			10.23

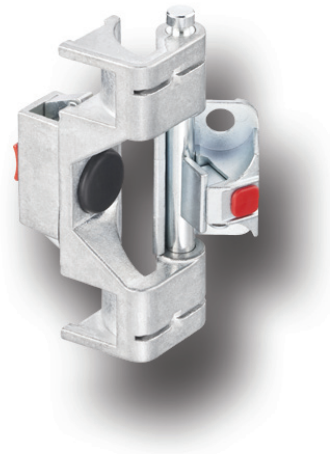
10-01-2012 © copyright by DIRAK / Germany

4-125SL Concealed Hinge Pr03 SNAP-LINE 130°

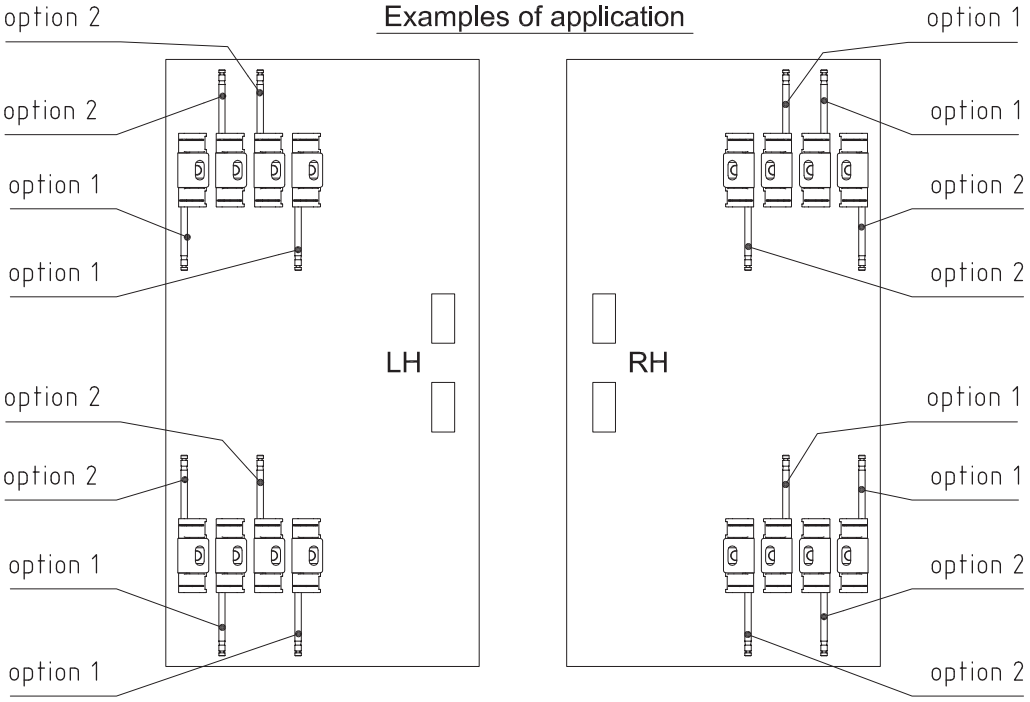
Frame leaf tool-less installation, Surface mounted door, IP65, Lift-off, Door bending 25mm

Product Notes:
- RH and LH application
- By pulling the pin the door leaf is released for door removal
- Door leaf is fastened to panel with screws. After attachment, push the door onto the pin of the frame leaf.
- Pin is captive in frame leaf
- Options allow for a pin to be pre-assembled in top or bottom
- Frame leaf installed by a simple push into the cutout. Front release: screwdriver. Rear release: SNAP-LINE uninstallation tool.
- Water and dust tight according to IP65, DIN EN 60529 with O-rings
- Other zinc die - see Product System 4-124, 4-124SL, and 4-125
- Screw-on - see Product System 4-124, 4-125, 7-165 and 7-166
- Stainless steel - see Product System 7-164SL, 7-165 and 7-166

Material:
- **Frame leaf:** Zinc Die, Untreated
- **Door leaf and slider:** Zinc Die, Zinc Plated
- **Pin:** Steel, Zinc Plated
- **Wings:** Sintered Metal, Plated
- **O-Ring:** NBR



Examples of application



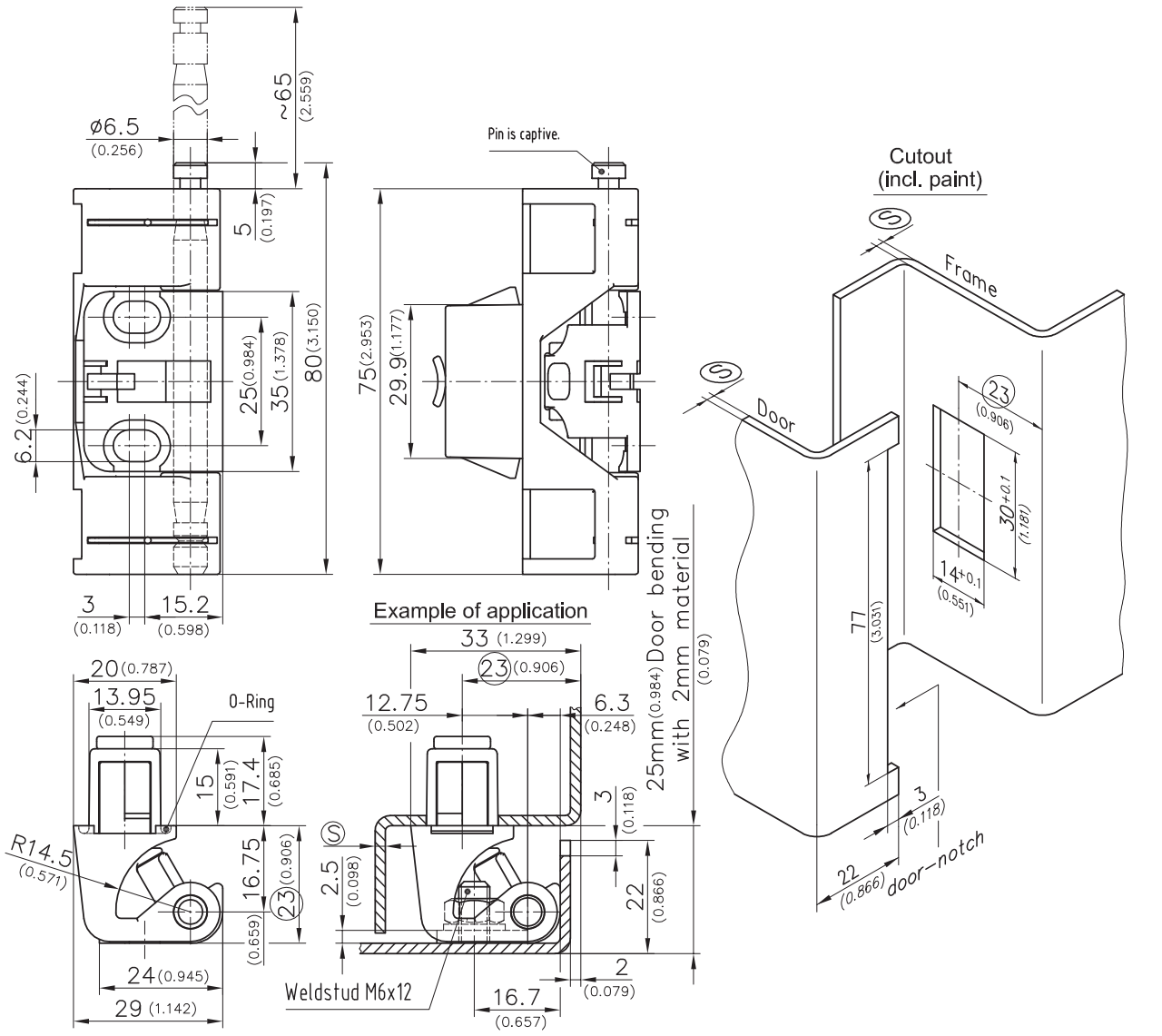
Depending on the shown options, the captive pin is pre-assembled from the top or upside-down. The chart below shows the options for LH and RH doors.

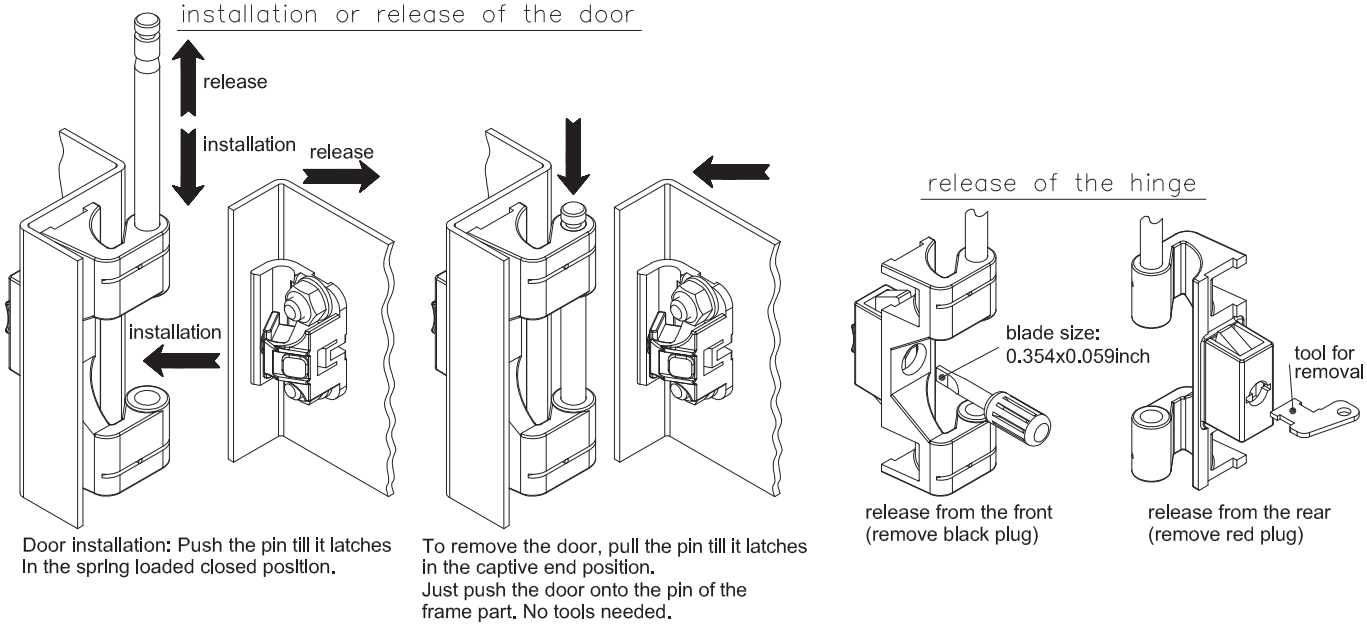
	Clamping Range Ⓢ	Option 1 LH, Bottom Pin RH, Top Pin	Option 2 LH, Top Pin RH, Bottom Pin	See Page
Concealed Hinge	**1.2 - 1.7**	**443-9101.00-20015**	**443-9101.00-10015**	
	1.7 - 2.2	**443-9101.00-20020**	**443-9101.00-10020**	
	2.2 - 2.7	**443-9101.00-20025**	**443-9101.00-10025**	
	2.7 - 3.2	**443-9101.00-20030**	**443-9101.00-10030**	
	3.0 - 3.5	**443-9101.00-20033**	**443-9101.00-10033**	
Cover for cutout 30x14mm		**292-0402.00-03014**	**292-0402.00-03014**	**10.14**
Reinforcement plate for cutout 30x14 and 30x15mm		**292-0701.15-01530**	**292-0701.15-01530**	**10.16**
Tool for uninstallation		**292-0306.80-02530**	**292-0306.80-02530**	**10.17**
Tool for uninstallation		**292-0301.15-00000**	**292-0301.15-00000**	**10.17**

10-01-2012 © copyright by DIRAK / Germany

4-125SL Concealed Hinge Pr03 SNAP-LINE 130°

Frame leaf tool-less installation, Surface mounted door, IP65, Lift-off, Door bending 25mm





Door installation: Push the pin till it latches In the spring loaded closed position.

To remove the door, pull the pin till it latches in the captive end position. Just push the door onto the pin of the frame part. No tools needed.

DIRAK Inc. Phone: 1.703.378.7637 Fax: 1.703.378.7638 www.dirak.com

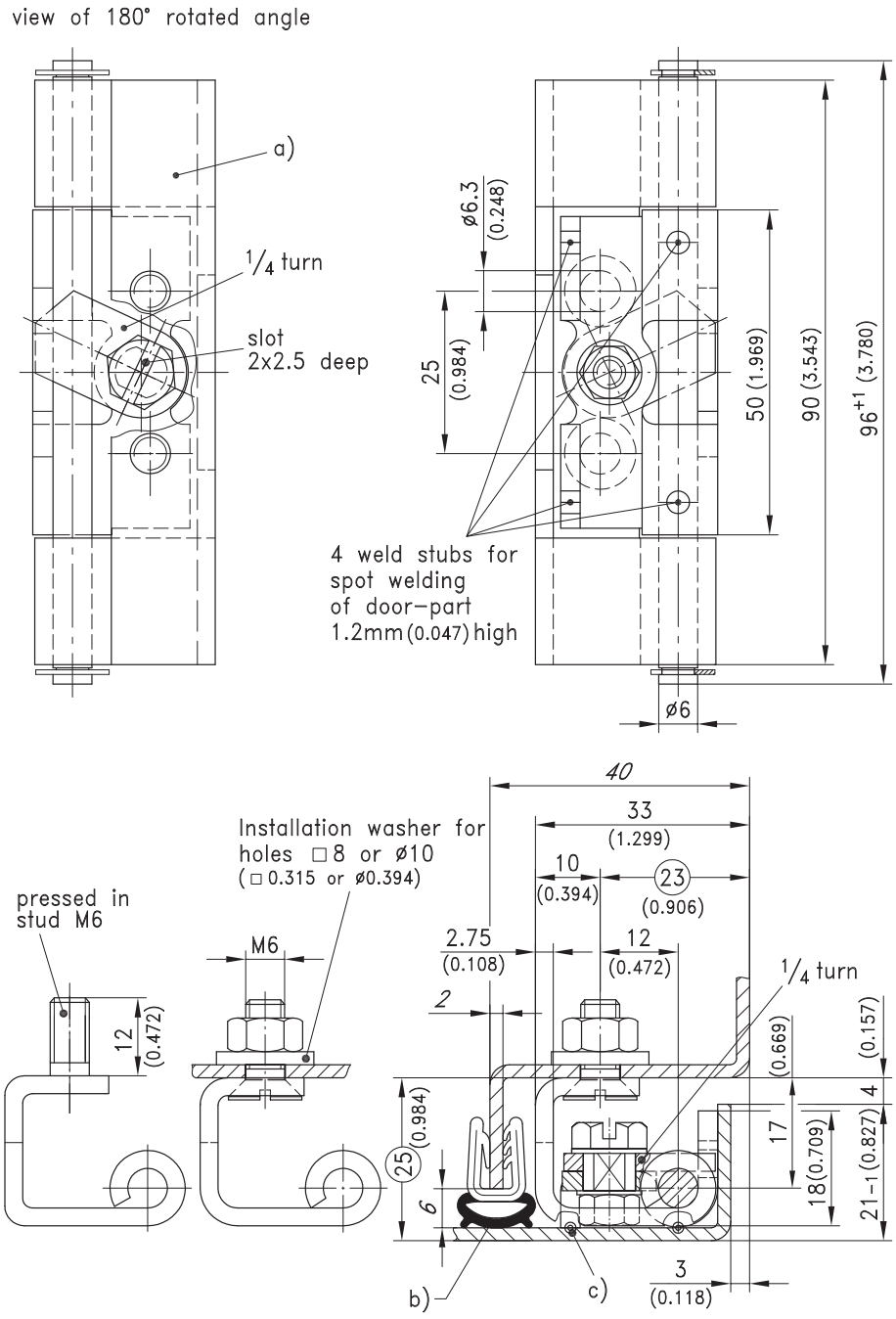
10-01-2012 © copyright by DIRAK / Germany

7-166 Concealed Hinge Pr03 120°

Surface mounted door, Stainless Steel, Lift-off, Door bending 25mm

Product Notes:
- RH and LH application
- By rotating the pivot pin 1/4 turn, door can be removed without the removal of hinge pin
- Zinc die - see Product System 4-124, 4-124SL, 4-125 and 4-125SL
- Tool-less installation - see Product System 4-124SL, 4-125SL and 7-164SL
- Other stainless steel - see Product System 7-164SL, and 7-165

Material:
- **Frame leaf, quarter turn, pin and installation washer:** Stainless Steel AISI 304



Version	Frame Holes	Part No.	See Page
a) Frame leaf with countersunk holes for M6	**Ø6.3 or M6**	**243-9206**	
a1) as a), but with installation washer	**□8 or Ø10**	**243-9207**	
a2) as a) and a1), but with pressed in M6 stud	**Ø6.3, □8, Ø10**	**243-9210**	
b) Clip-on profile		**209-0201**	**05.12**
c) Concealed hinge			**04.139**

DIRAK Inc. Phone: 1.703.378.7637 Fax: 1.703.378.7638 www.dirak.com

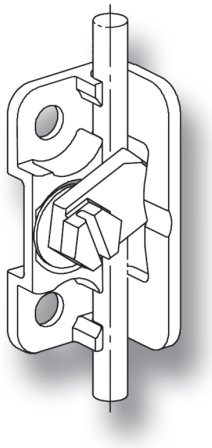
10-01-2012 © copyright by DIRAK / Germany

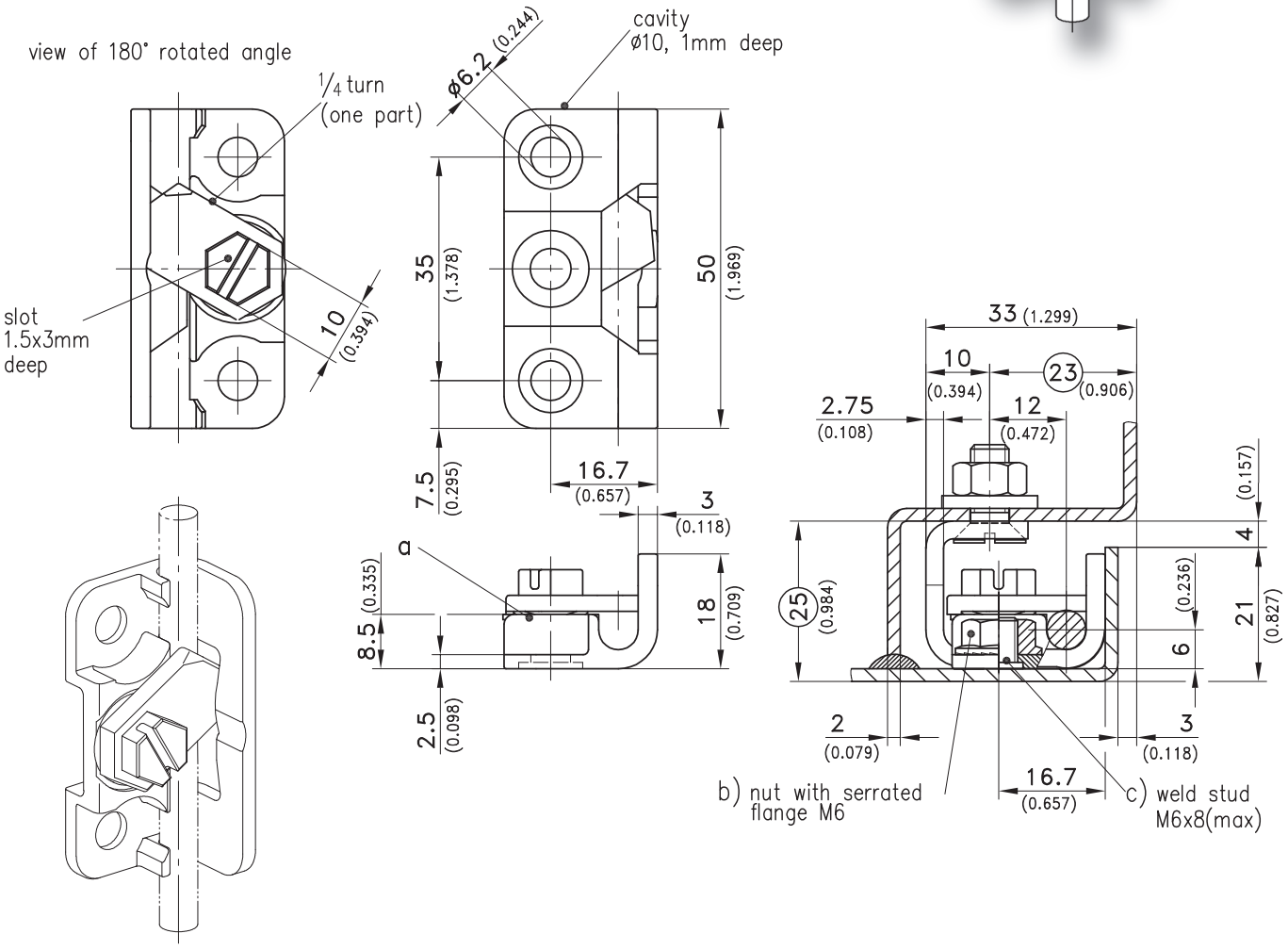
4-123 Concealed Hinge Pr03 120°

Surface mounted door, Door bending 25mm

Product Notes:
- Door leaf for Product System 4-124 and 4-125
- RH and LH application
- By rotating the pivot pin 1/4 turn, the pivot pin is released and the door can be removed

Material:
- **Door leaf and pivot pin:** Zinc Die, Zinc Plated
- **Washer and bowed washer:** Stainless Steel
- **Nut with serrated flange:** Steel, Zinc Plated





	Version	Part No.	See Page
a)	**Screw-on unit**	**243-9008**	
	Please order separately:		
b)	**Nut with serrated flange M6 (2 pieces per screw-on unit)**	**860-B193.00-00006**	
c)	**Weld stud M6x8 (2 pieces per screw-on unit)**	**800-1105**	
	Part No. of the complete hinge		**04.135**
	This screw-on unit allows also an application with the stainless steel version		**04.138**
	Countersunk machine screws and nuts		**10.23**

10-01-2012 © copyright by DIRAK / Germany