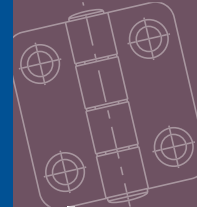


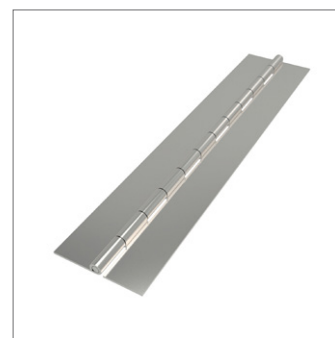
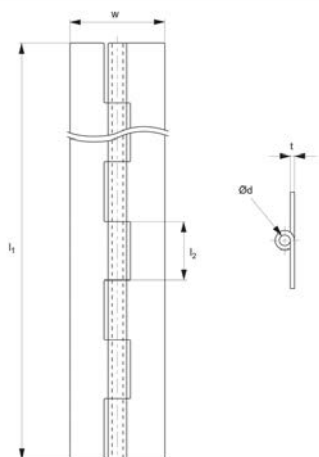


Surface Mount - Piano Hinges

weld-on - stainless steel



Hinges



S0050

HINGES

Material

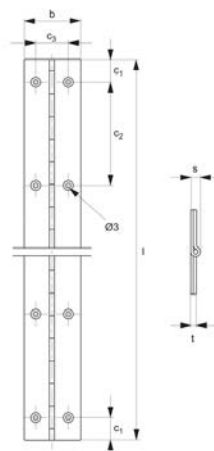
Stainless steel, AISI 304, satin finish.

Order No.	l_1	l_2	t	w	d	Weight g
S0050.AC0202	300	12.5	0.8	25	2.6	66
S0050.AC0206	1000	12.5	0.8	25	2.6	222
S0050.AC0302	300	12.5	0.8	32	2.6	80
S0050.AC0306	1000	12.5	0.8	32	2.6	272
S0050.AC0326	600	20.0	1.5	32	3.5	330
S0050.AC0330	1000	20.0	1.5	32	3.5	574
S0050.AC0382	1000	20.0	1.5	38	3.5	615
S0050.AC0502	1000	20.0	1.5	50	3.5	759
S0050.AC0552	1000	50.0	2.0	50	5.0	774





S0100



Material

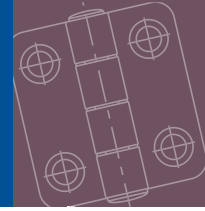
Stainless steel, AISI 304, satin finish.

Order No.	b	c ₁	c ₂	c ₃	l	s	t	Holes	Weight g
S0100.AC0324	30	10.5	43.5	17	240	3.5	1.2	12	65
S0100.AC0330	30	10.5	46.3	17	300	3.5	1.2	14	80
S0100.AC0336	30	15.0	47.0	17	360	3.5	1.2	16	95
S0100.AC0345	30	14.5	60.0	17	450	3.5	1.2	16	120
S0100.AC0360	30	14.0	63.3	17	600	3.5	1.2	20	190
S0100.AC0390	30	14.0	62.3	17	900	3.5	1.2	30	280

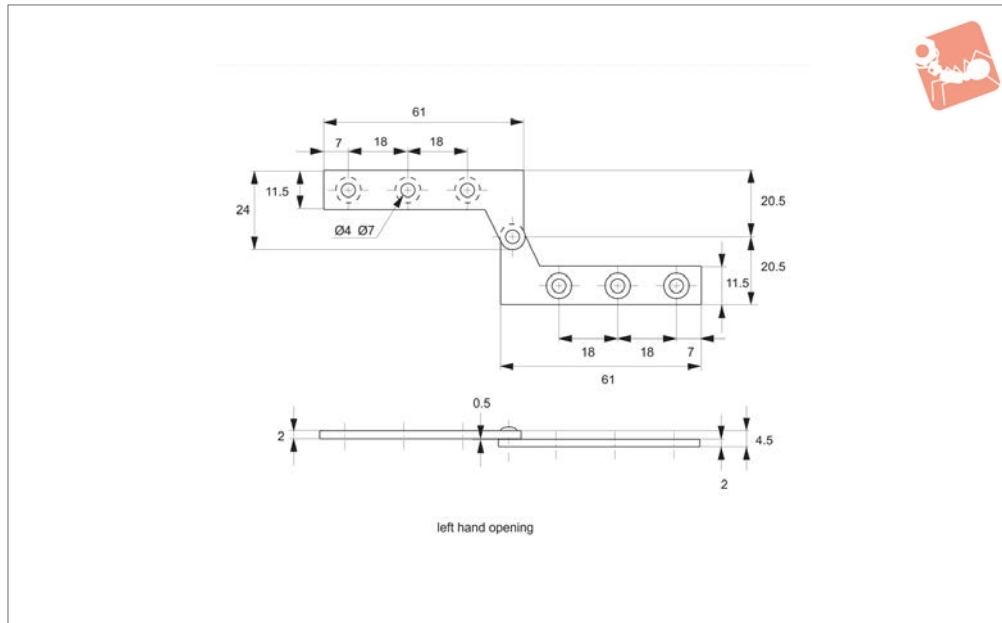


Surface Mount - Pivot Hinges

inset - stainless steel



Hinges



S0200

HINGES

Material

Stainless steel, AISI 430, satin finish.

Technical Notes

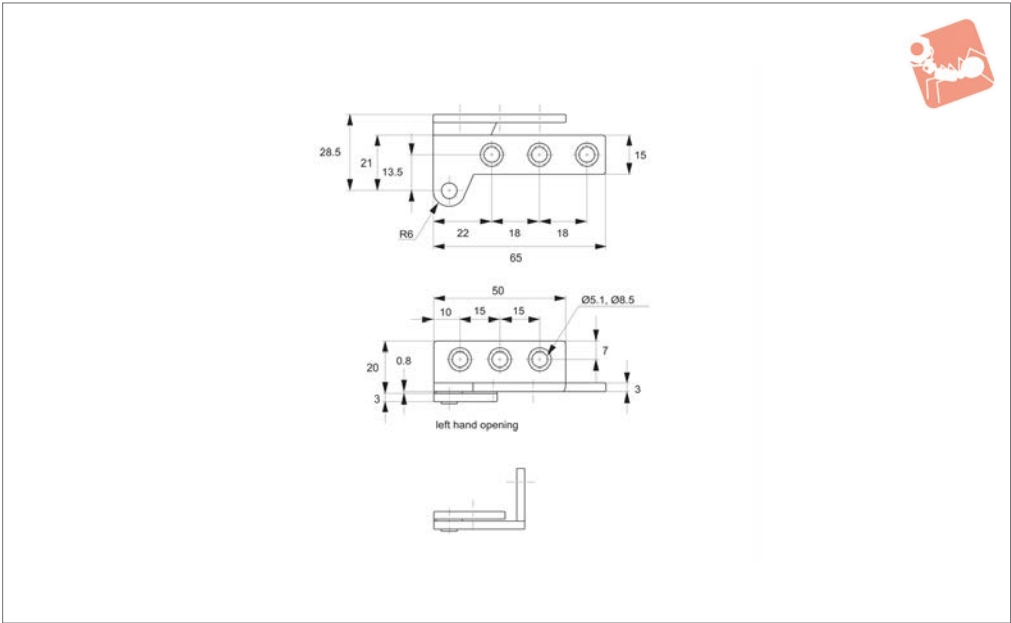
Max. door size: 450w x 700h x 21mm thick.

Max. door weight: 2,6Kg per hinge pair.

Order No.	Type	Weight g
S0200.AC0110	Left	22
S0200.AC0010	Right	22



S0220



Material
Stainless steel, AISI 430, satin finish.

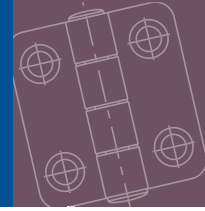
Technical Notes
Max. door size: 450w x 700h x 21mm thick.
Max. door weight: 2,6Kg per hinge pair.

Order No.	Type	Weight g
S0220.AC0110	Left	55
S0220.AC0010	Right	55

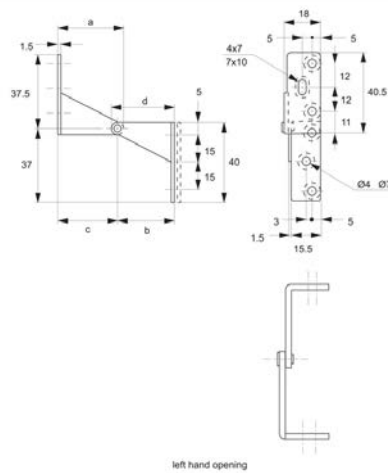


Surface Mount - Pivot Hinges

overlay - stainless steel



Hinges



S0240

HINGES

Material

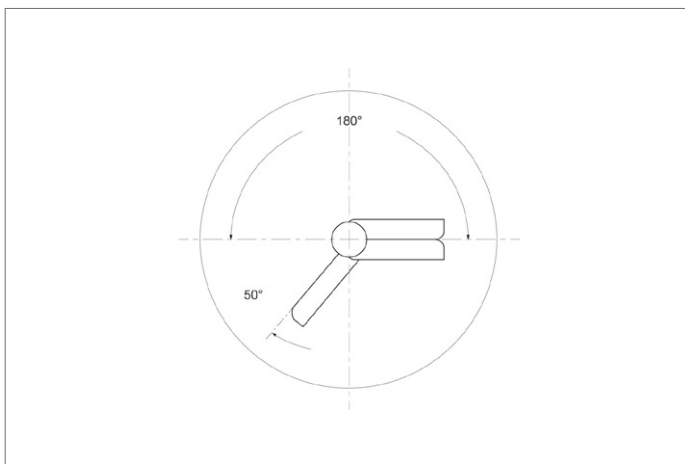
Stainless steel, AISI 430, satin finish.

Technical Notes

Max. door size: 300w x 700h x 21mm thick.

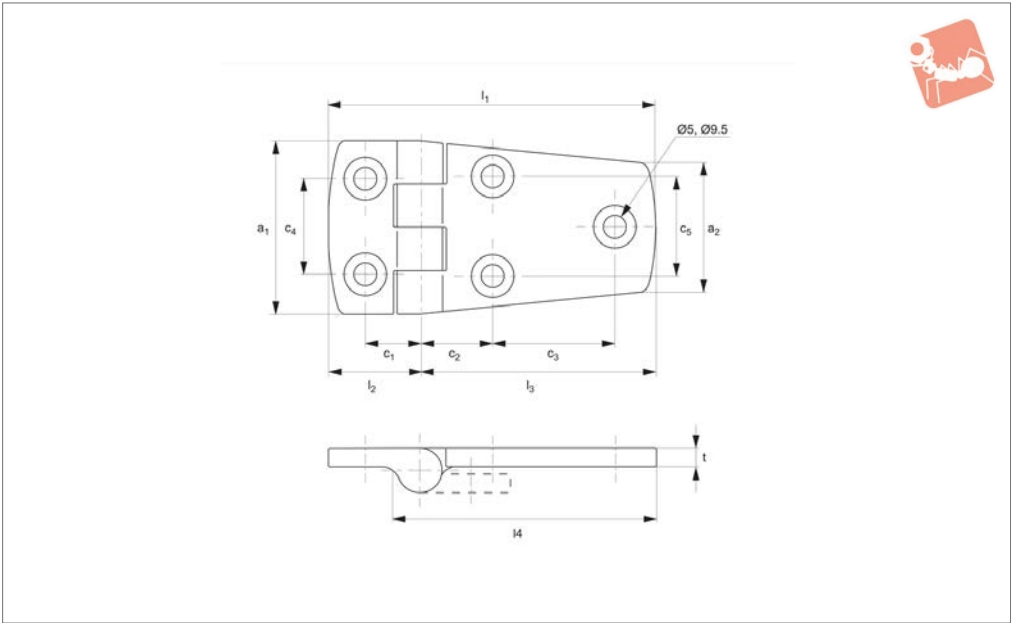
Max. door weight: 1,8Kg per hinge pair.

Order No.	Type	a	b	c	d	Weight g
S0240.AC0110	Left	34	28	30.5	31	23
S0240.AC0010	Right	34	28	30.5	31	23
S0240.AC0120	Left	28	22	24.5	25	21
S0240.AC0020	Right	28	22	24.5	25	21





S0460



Material
Stainless steel, AISI 316, satin finish.

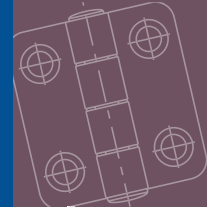
Technical Notes
Max. door size: 450w x 700h x 21mm thick.
Max. door weight: 4,0Kg per hinge pair.

Order No.	a ₁	a ₂	c ₁	c ₂	c ₃	c ₄	c ₅	l ₁	l ₂	l ₃	l ₄	t	Weight g
S0460.AC0005	38	28	12	13.5	16.5	21	20	58	20	38	42	4	70
S0460.AC0007	38	28	12	16.0	27.0	22	21	72	20	52	57	4	85

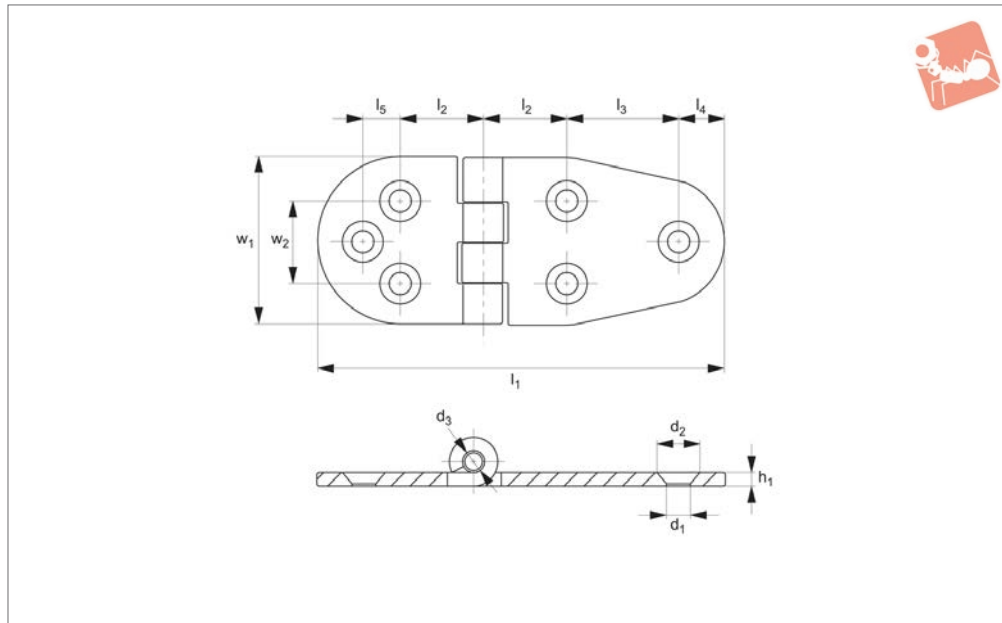


Surface Mount - Leaf Hinges

screw mount - stainless steel



Hinges



S0462

HINGES

Material

Hinge: stainless steel.

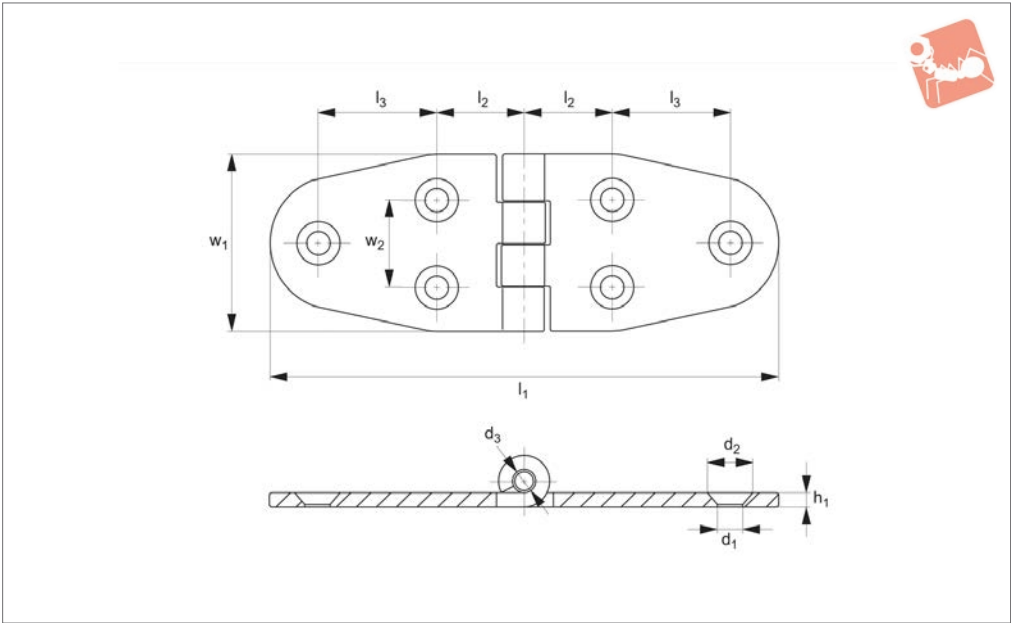
Technical Notes

Opening angle 180°.

Order No.	h_1	l_1	l_2	l_3	l_4	l_5	w_1	w_2	F_x N	F_y N	d_1	d_2	d_3
S0462.AW0040	2.5	99.5	20	27	12.7	9	40	20	520	600	5.6	10	5



S0464



Material

Hinge: stainless steel.

Technical Notes

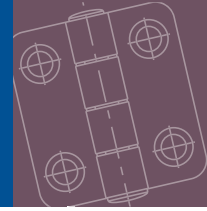
Opening angle 180°.

Order No.	h_1	l_1	l_2	l_3	w_1	w_2	F_x N	F_y N	d_1	d_2	d_3
S0464.AW0040	2.5	119.5	20	27	40	20	520	600	5.6	10	5

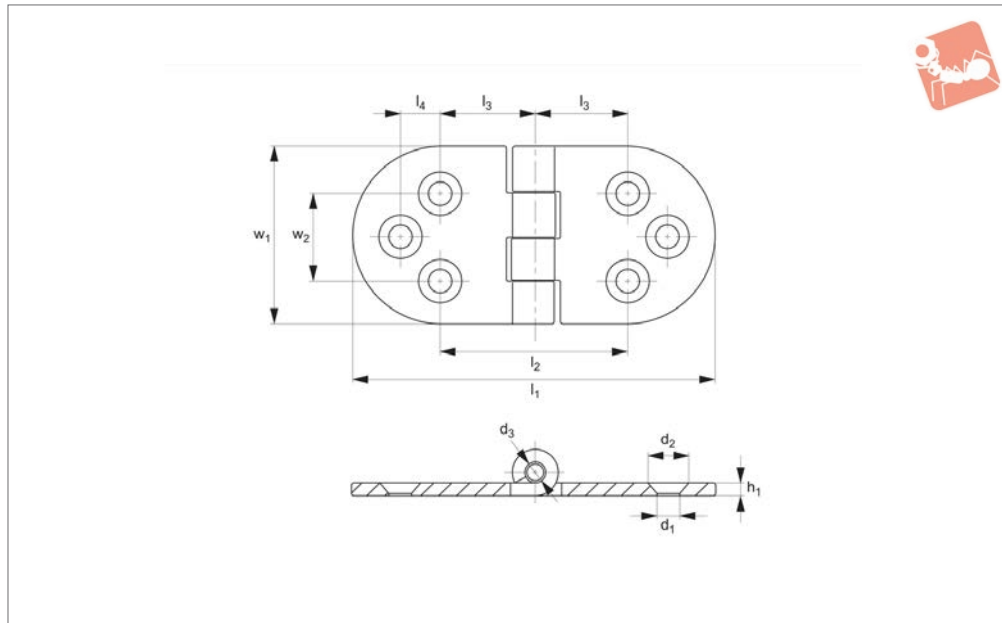


Surface Mount - Leaf Hinges

screw mount - stainless steel



Hinges



S0466

HINGES

Material

Hinge: stainless steel.

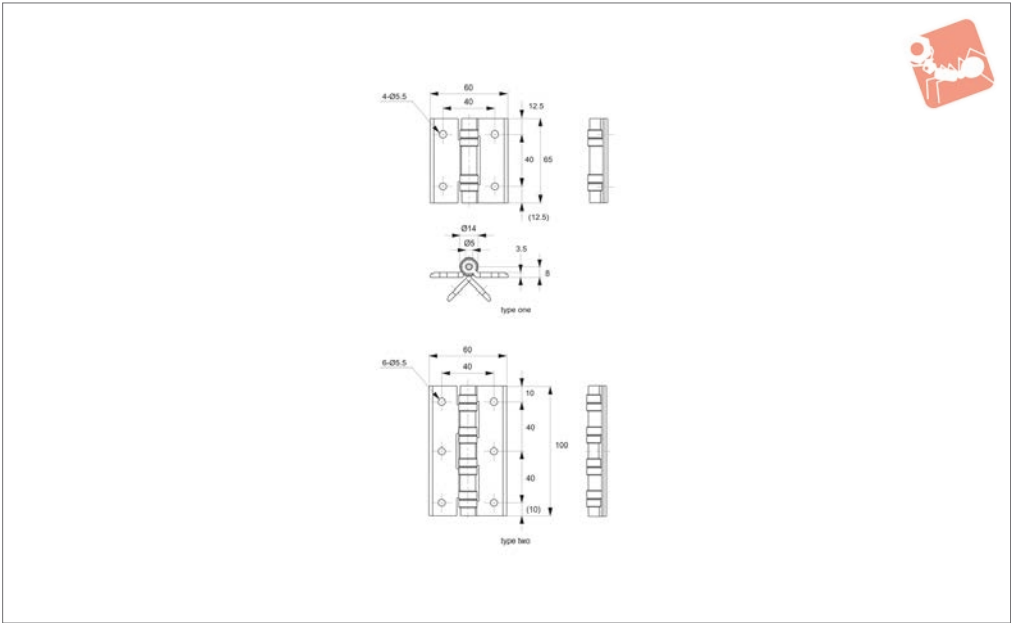
Technical Notes

Opening angle 180°.

Order No.	h_1	l_1	l_2	l_3	l_4	w_1	w_2	F_x N	F_y N	d_1	d_2	d_3
S0466.AW0040	2.5	79.5	58	20	9	40	20	520	600	5.6	10	5



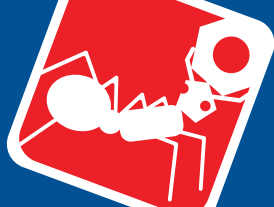
S0600



Material
Body: aluminium.
Spacer: polyacetal.
Pin: stainless steel, AISI 304.

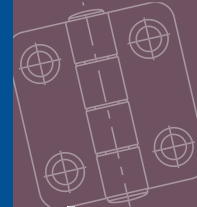
Technical Notes
Due to unique spacers, hinge generates no friction powder and is ideal for semiconductor rooms, clean rooms, medical and food processing applications.

Order No.	Type	Load/pair kg max.	Weight g
S0600.AC0065	Type one	8	60
S0600.AC0100	Type two	13	100

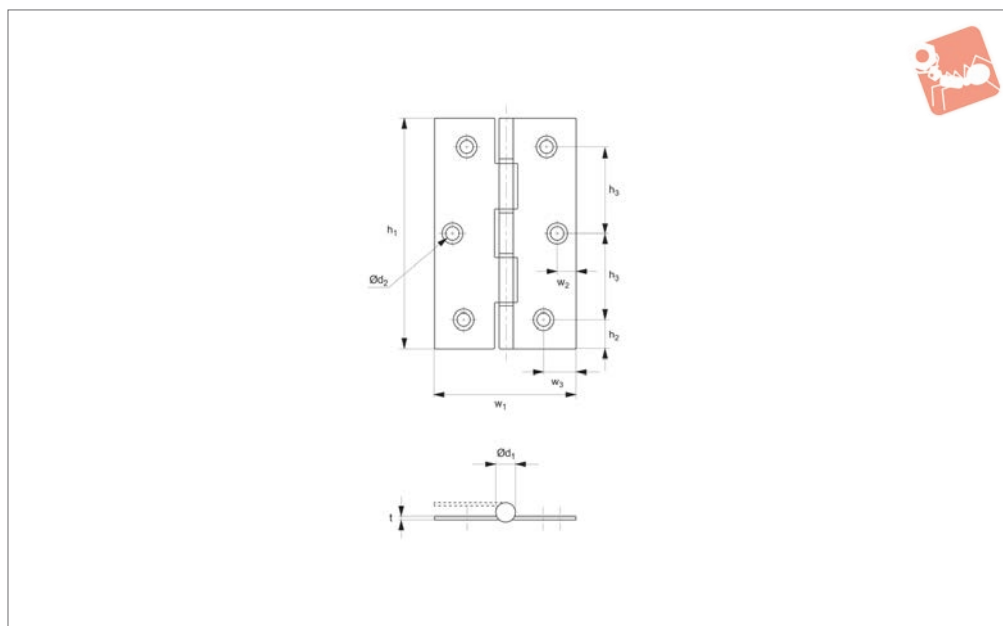


Surface Mount - Leaf hinges

with polyacetal bushing - screw mount - **stainless**



Hinges



S0700

HINGES

Material

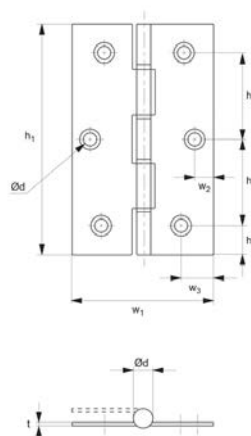
Body: stainless steel, AISI 304, polished finish.

Bushing: polyacetal.

Order No.	h_1	h_2	h_3	t	w_1	w_2	w_3	d_1	d_2	No. of knuckles	No. of mounting holes	Weight g
S0700.AC0005	51	7.5	36	1.3	39.0	-	7.0	6.2	4.2	3	4	27.4
S0700.AC0006	64	7.0	25	1.3	42.5	6.0	8.0	6.2	5.0	5	6	36.5
S0700.AC0007	76	9.0	29	1.5	50.0	7.0	9.0	7.4	5.2	5	6	59.5
S0700.AC0008	89	10.5	34	1.7	56.5	7.5	10.5	9.0	5.4	5	6	91.6
S0700.AC0010	102	9.0	28	1.8	70.0	9.0	14.0	9.5	6.0	5	8	132.5
S0700.AC0012	127	11.0	35	1.9	82.0	10.5	16.0	11.5	6.0	5	8	231.5



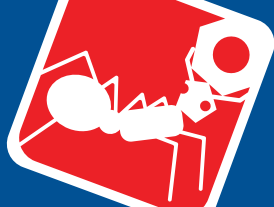
S0720



Material

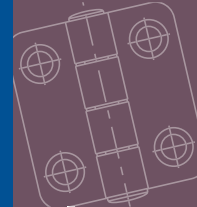
Stainless steel, AISI 304, polished finish.

Order No.	h_1	h_2	h_3	t	w_1	w_2	w_3	d_1	d_2	No. of knuckles	No. of mounting holes	Weight g
S0720.AC0005	51	7.5	36	0.8	34.5	-	6.5	4.8	4.4	5	4	15.2
S0720.AC0006	64	8.0	24	0.9	40.0	5.5	9.0	5.0	4.2	5	6	23.8
S0720.AC0007	76	10.0	28	1.0	46.0	7.5	10.0	6.0	4.5	5	6	37.8
S0720.AC0008	89	9.5	35	1.2	56.0	8.0	12.0	7.0	5.5	5	6	63.6
S0720.AC0010	102	10.5	27	1.4	66.5	9.0	12.0	8.0	5.5	5	8	96.4
S0720.AC0012	127	11.0	35	1.5	82.0	10.0	17.0	9.0	5.4	5	8	161.5

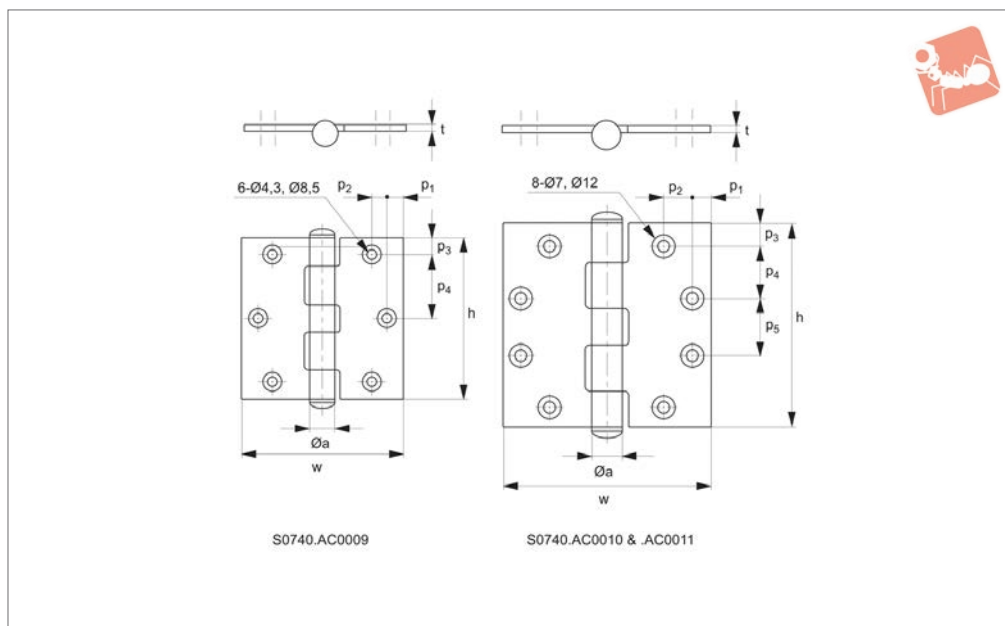


Surface Mount - Leaf Hinge

screw mount - stainless steel



Hinges



S0740

HINGES

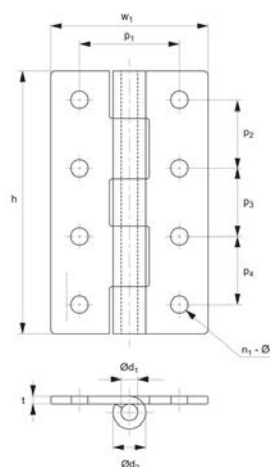
Material

Stainless steel, AISI 304, satin finish.

Order No.	a	h	p ₁	p ₂	p ₃	p ₄	p ₅	t	w	Load/pair kg	Weight g
S0740.AC0009	14.0	89.0	9.1	8.0	9.1	35.4	-	3.0	89.0	25	145
S0740.AC0010	14.8	101.6	9.5	9.5	13.0	25.5	24.6	3.4	101.6	40	195
S0740.AC0011	14.8	114.3	9.5	15.9	12.9	28.6	31.3	3.4	114.3	45	420



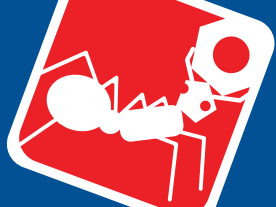
S0780



Material

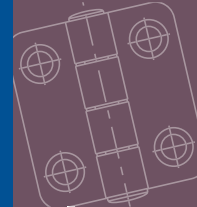
Stainless steel, AISI 304, polished finish.

Order No.	h	n ₁	n ₂	p ₁	p ₂	p ₃	p ₄	t	w	d ₁	d ₂	d ₃	Load/pair kg	Weight g
S0780.AC0040	40	4	3	22	26	-	-	1.5	35	3.2	3.0	6.3	6	25
S0780.AC0050	50	4	3	22	34	-	-	1.5	35	4.3	3.0	6.3	8	30
S0780.AC0065	65	6	5	30	23	23	-	2.0	50	4.3	4.5	8.8	13	64
S0780.AC0075	75	6	5	30	27	27	-	2.0	50	5.3	4.5	8.8	15	74
S0780.AC0090	90	6	5	38	35	35	-	3.0	60	6.4	6.0	12.3	25	180
S0780.AC0100	100	8	5	38	26	26	26	3.0	60	6.4	6.0	12.3	30	195

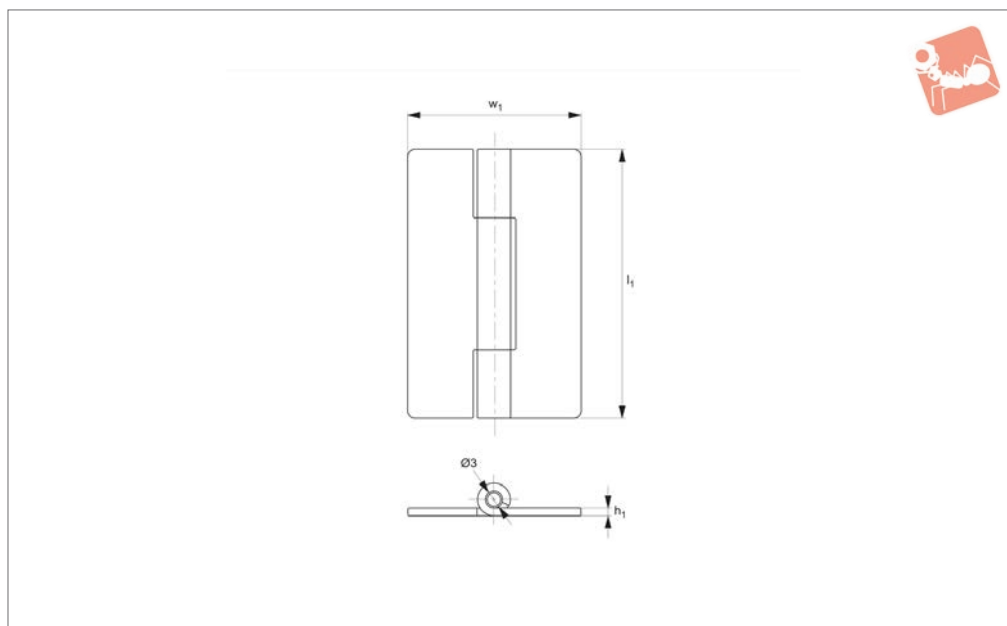


Surface Mount - Leaf Hinges

weld-on - stainless steel



Hinges



S0730

HINGES

Material

Hinge: polished stainless steel.

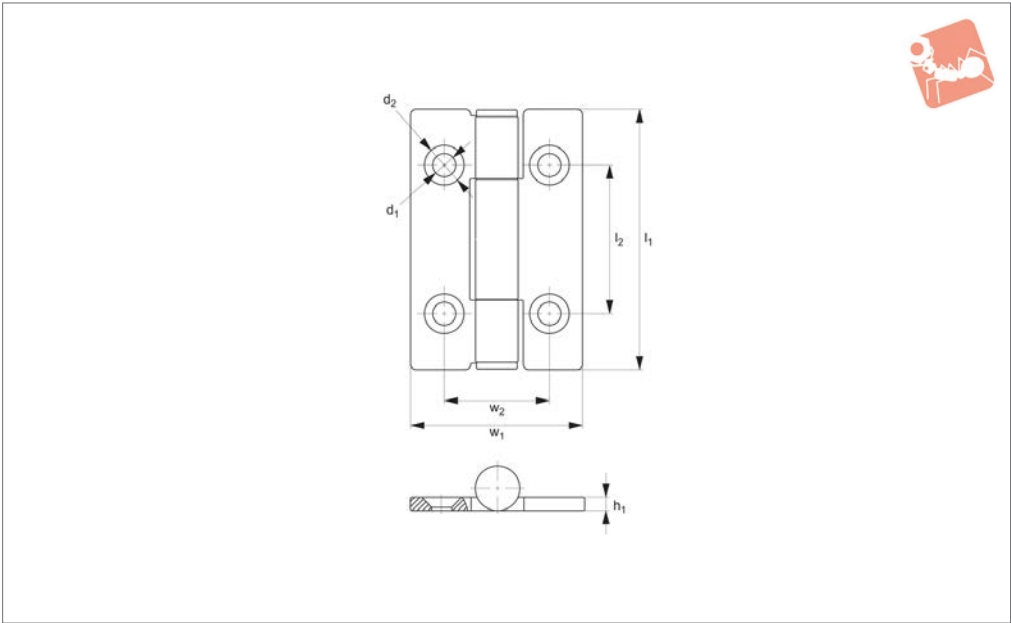
Technical Notes

Opening angle 180°.

Order No.	h_1	l_1	w_1	F_x N	F_y N
S0730.AW0050	1.5	50	32	516	665



S0732



Material

Hinge and pin: electrolytic stainless steel.

Technical Notes

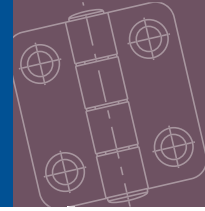
Opening angle 180°.

Order No.	h_1	l_1	l_2	w_1	w_2	F_x N	F_y N	d_1	d_2
S0732.AW0050	2	50.8	30	32	20	520	800	4.5	7.5

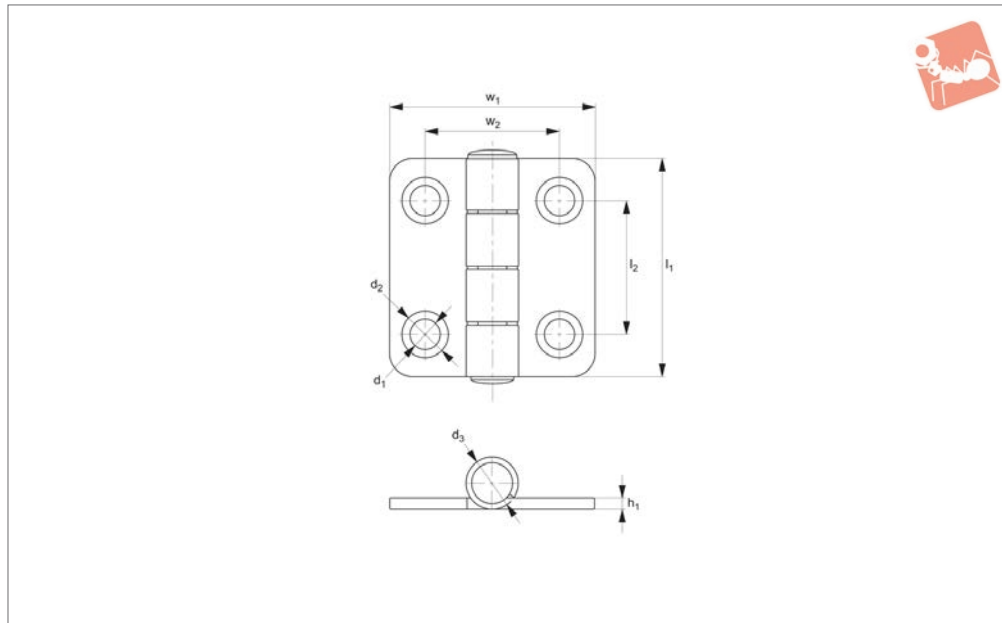


Surface Mount - Leaf Hinges

screw mount - stainless steel



Hinges



S0738

HINGES

Material

Hinge: polishing stainless steel.

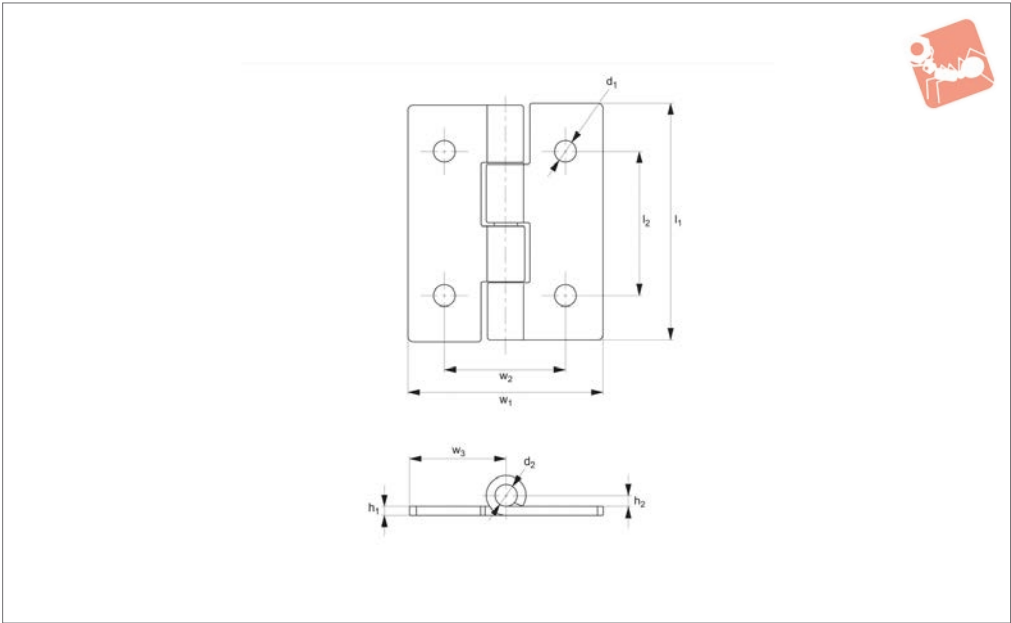
Technical Notes

Opening angle 180°.

Order No.	h_1	l_1	l_2	w_1	w_2	F_x N	F_y N	d_1	d_2	d_3
S0738.AW0037	2	37	22.5	35	23	745	1090	5.2	8	9



S0741



Material
304 stainless steel.

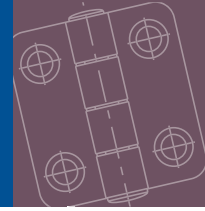
Technical Notes
Opening angle 180°.

Order No.	h_1	h_2	l_1	l_2	w_1	w_2	w_3	F_x N	F_y N	d_1	d_2
S0741.AW0040	1.2	1.8	40	24	32	20	16	340	600	3.2	3.5

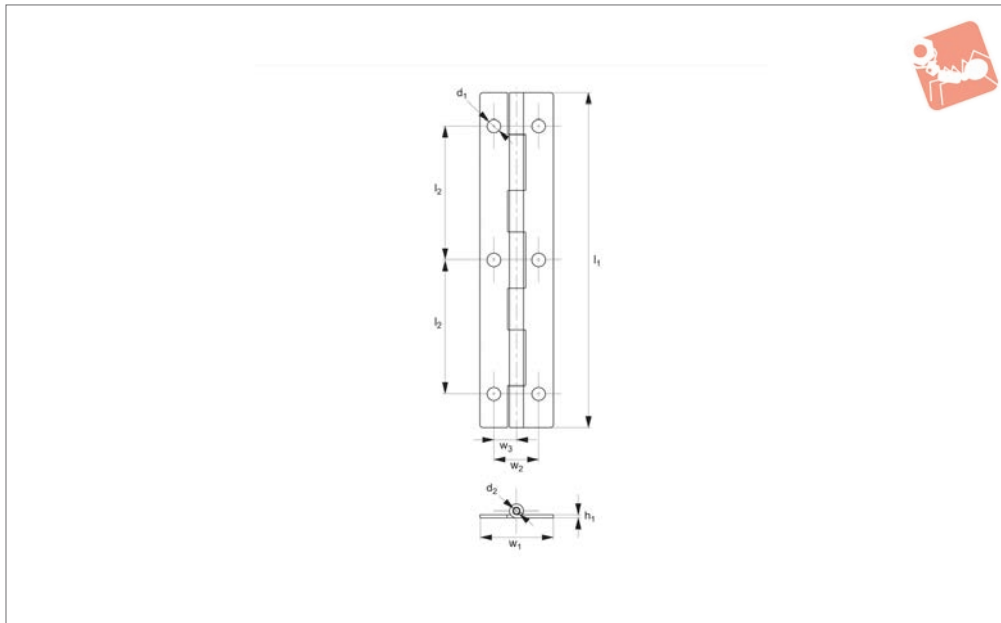


Surface Mount - Leaf Hinges

screw mount - steel



Hinges



S0742

HINGES

Material

Hinge: steel, zinc plated

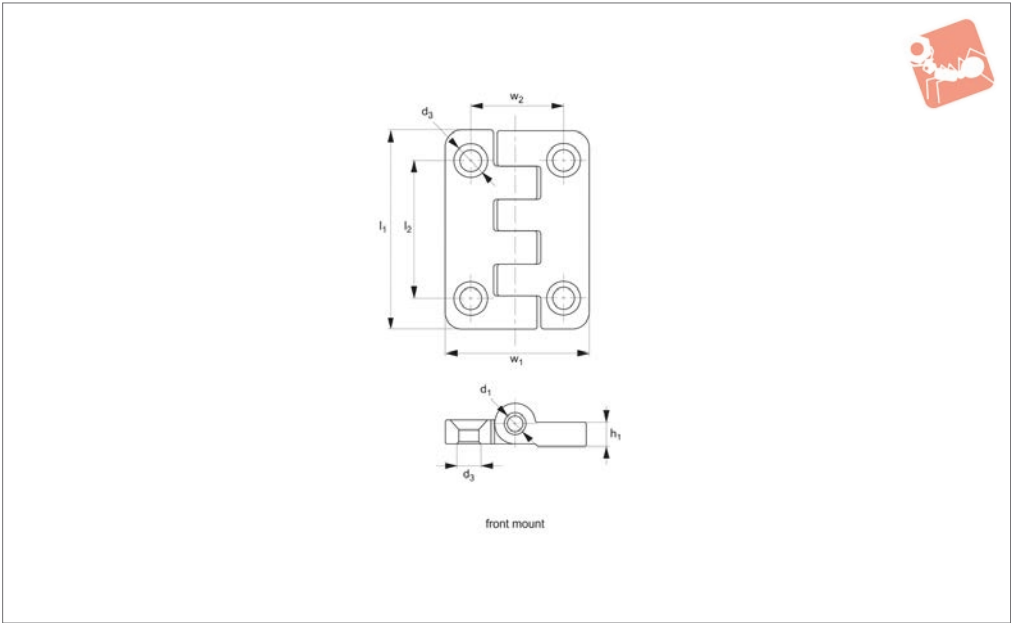
Technical Notes

Opening angle 180°.

Order No.	h_1	l_1	l_2	w_1	w_2	w_3	F_x N	F_y N	d_1	d_2
S0742.AW0150	1.5	150	60	32	20	10	840	1380	6	3.5



S0750



Material

Hinge: die cast zinc, chrome plated or black powder coated.

Pin: steel

Technical Notes

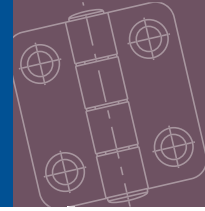
Opening angle 180°.

Order No.	Finish	Mount	h ₁	l ₁	l ₂	w ₁	w ₂	F _x kN	F _y kN	d ₁	d ₃
S0750.AW0020	Chrome	Front	7	54	38	40	26	1.5	1.8	7	Ø6
S0750.AW0320	Black Coated	Front	7	54	38	40	26	1.5	1.8	7	Ø6
S0750.AW0030	Chrome	Front	6	50	30	76	56	1.125	1.49	7	Ø6
S0750.AW0330	Black Coated	Front	6	50	30	76	56	1.125	1.490	7	Ø6

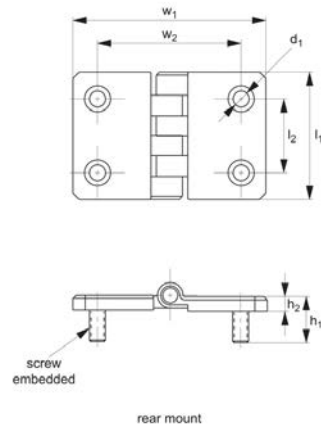


Surface Mount - Leaf Hinges

integrated stud - zinc



Hinges



S1136

HINGES

Material

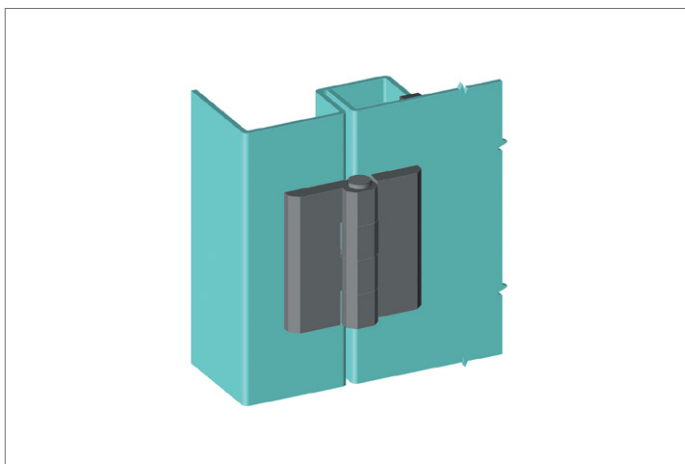
Hinge: die cast zinc, chrome plated or black powder coated.

Pin: steel

Technical Notes

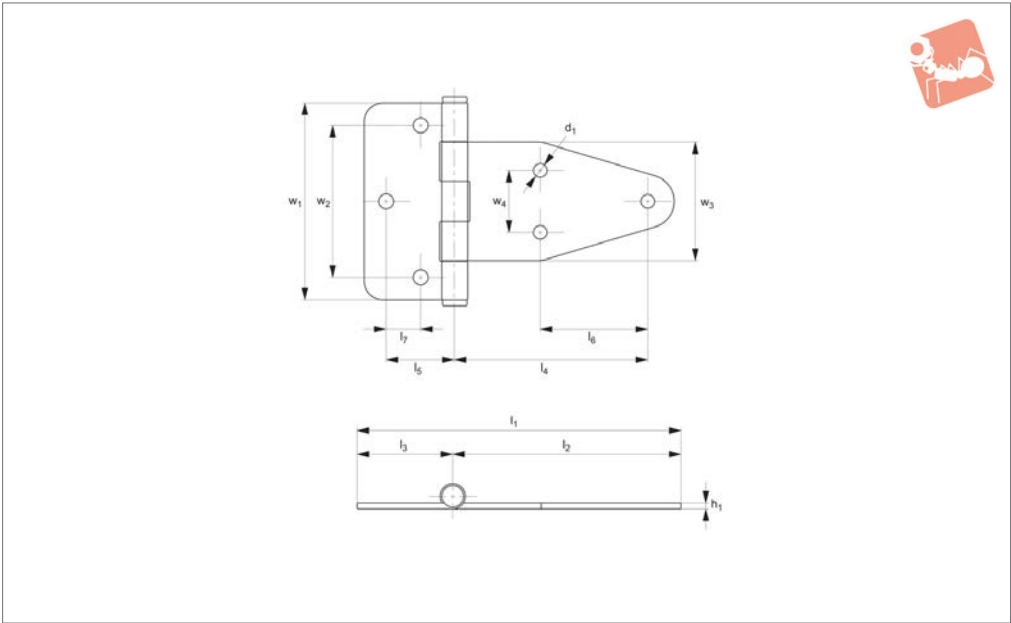
Opening angle 180°.

Order No.	Finish	Mount	h_1	h_2	l_1	l_2	w_1	w_2	F_x kN	F_y kN	d_1
S1136.AW0020	Chrome	Rear	20.5	7	54	38	40	26	1.5	1.8	M6
S1136.AW0320	Black Coated	Rear	20.5	7	54	38	40	26	1.5	1.8	M6
S1136.AW0030	Chrome	Rear	21.0	6	50	30	76	56	1.125	1.49	M6
S1136.AW0330	Black Coated	Rear	21.0	6	50	30	76	56	1.125	1.49	M6





S0818

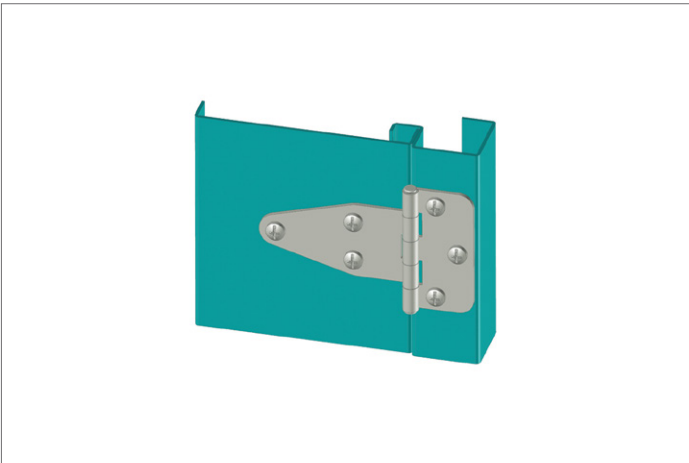


Material
Hinge: stainless steel AISI 304, polished.

doors, as well as electrical panels and covers. Opening angle 180°.

Technical Notes
For plain/flush mounted, isolated heavy

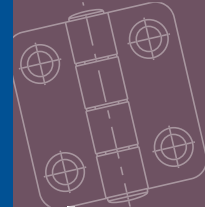
Order No.	h_1	l_1	l_2	l_3	l_4	l_5	l_6	l_7	w_1	w_2	w_3	F_x N	F_y N	d_1
S0818.AW0010	2.5	137	97	40	85.5	30	48	15	85	65	57	750	850	6.5



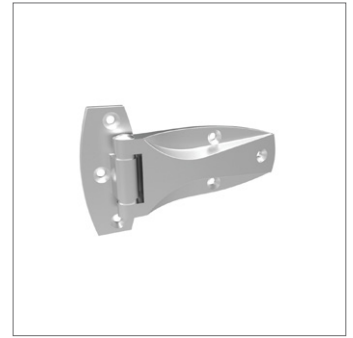
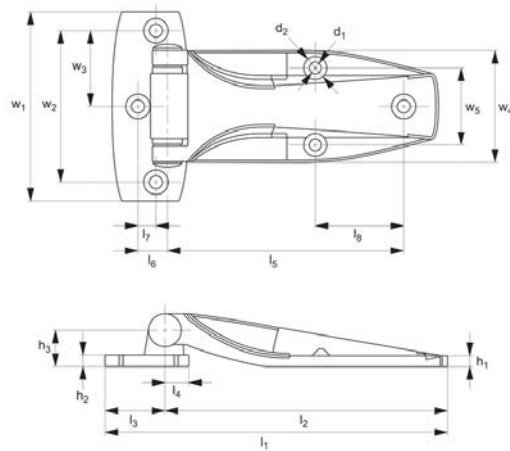


Surface Mount - Leaf Hinges

screw mount - stainless steel



Hinges



S0820

HINGES

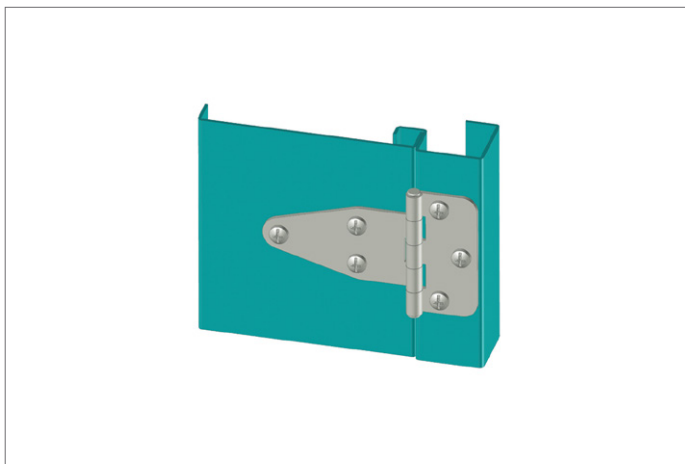
Material

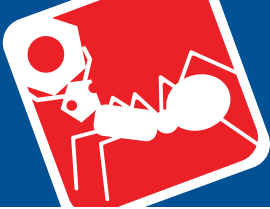
Hinge: stainless steel AISI 304, polished.

Technical Notes

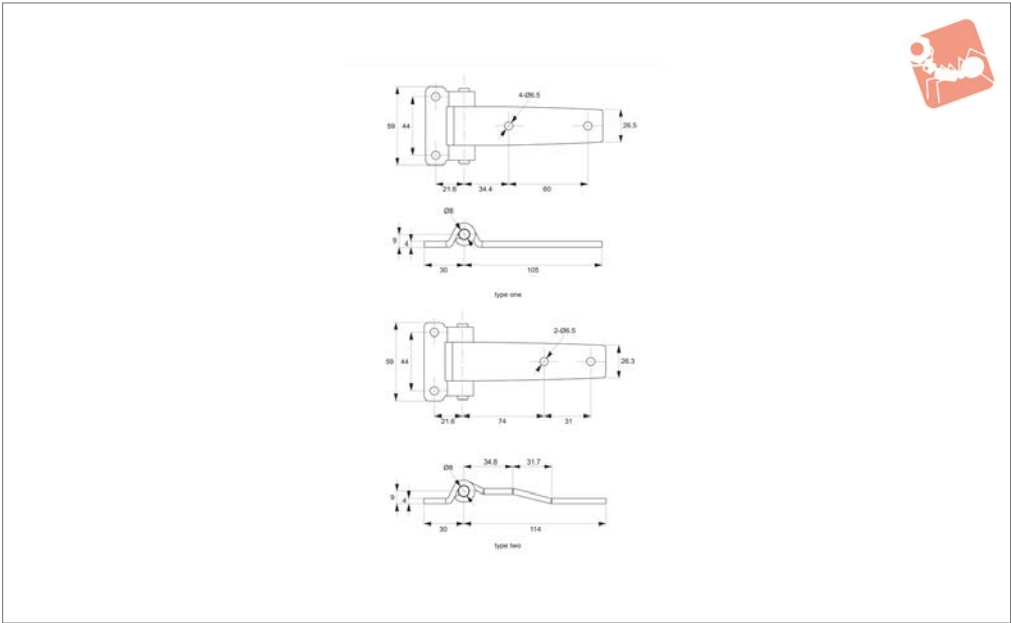
Opening angle 135°.

Order No.	h_1	h_2	h_3	l_1	l_2	l_3	l_4	l_5	l_6	l_7	l_8	w_1	w_2	w_3	w_4	w_5	F_x N	d_1	d_2
S0820.AW0010	4.5	5	15.2	141.8	116.8	25	10	102.4	13	8.2	37.9	83	66	33	49	33.5	2170	5.2	10.5





S0822



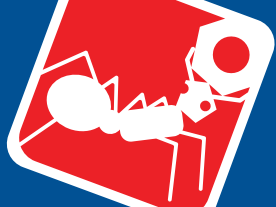
Material

Hinge and pin: stainless steel, AISI 304, polished.

Technical Notes

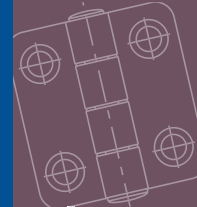
Opening angle 180°.

Order No.	Type	Length	F _x kN	F _y kN	Width
S0822.AW0010	type one	135	1.12	1.2	59
S0822.AW0110	type two	134	1.12	1.2	59

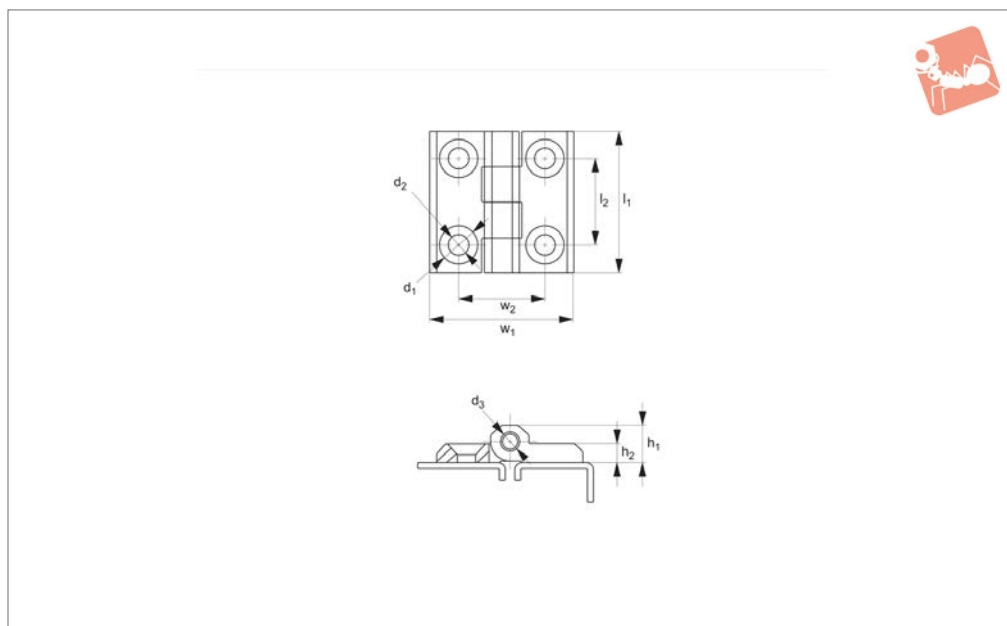


Surface Mount - Leaf Hinges

screw mount - stainless steel



Hinges



S0523

HINGES

Material

Stainless steel, AISI 304.

electrical panels and covers.
Opening angle 180°.

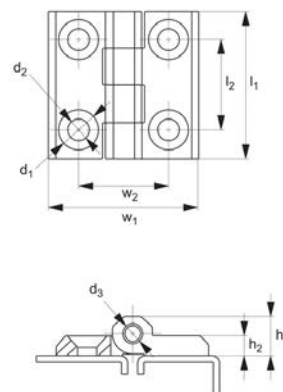
Technical Notes

For plain/flush mounted doors, as well as

Order No.	Size	h_1	h_2	l_1	l_2	w_1	w_2	d_1	d_2	d_3	90° Angled stress kN	Axial load F_x N max.	Axial stress kN	Radial load F_x N max.	Radial stress kN
S0523.AW0040	40 x 40	9,0	5	40	25	40	25	10,5	5,3	4	2,00		1,45		2,1
S0523.AW0050	50 x 50	11,5	6	50	30	50	30	12,5	6,3	7	2,45	1,3	2,10	1,2	3,5
S0523.AW0060	60 x 60	15,0	8	60	36	60	36	12,5	8,4	8	4,40	1,8	3,20	1,5	6,0



S0561



Material

Black Coated

Body: die cast zinc, black powder coated.

Pin: steel, nickel plated.

Chrome

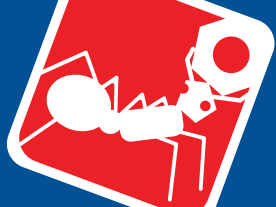
Body: die cast zinc, chrome plated.

Pin: steel, nickel plated.

Technical Notes

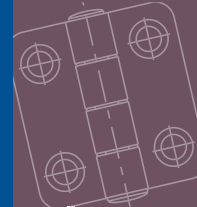
For plain/flush mounted doors, as well as electrical panels and covers. Opening angle 180°.

Order No.	Finish	Size	h_1	h_2	l_1	l_2	w_1	w_2	d_1	d_2	90° Angled stress kN	Axial load F_x N max.	Axial stress kN	Radial load F_x N max.	Radial stress kN
S0561.AW0040	Black Coated	40 x 40	9,0	5,0	40	25	40	25	10,2	5,3	2,00	1,2	1,45	1,0	2,1
S0561.AW0050	Black Coated	50 x 50	11,5	6,0	50	30	50	30	12,5	6,3	2,45	1,3	2,10	1,2	3,5
S0561.AW0060	Black Coated	60 x 60	15,0	8,0	60	36	60	36	16,5	8,4	4,40	1,8	3,20	1,5	6,0
S0561.AW0057	Black Coated	50 x 76	11,5	6,0	50	30	76	56	12,5	6,3	1,25	1,2	1,30	1,1	3,0
S0561.AW0612	Black Coated	60x120	15,0	8,0	60	36	120	88	12,5	6,8	1,50	1,2	1,30	1,1	4,5
S0561.AW0140	Chrome	40 x 40	9,8	5,2	40	25	40	25	5,2	2,00			1,45		2,1
S0561.AW0157	Chrome	50 x 76	11,0	6,0	50	30	76	55	6,3	2,45			2,10		3,5
S0561.AW0160	Chrome	60 x 60	17,2	8,2	60	38	60	36	8,2	1,25			1,30		3,0
S0561.AW0150	Chrome	50 x 50	11,2	6,0	50	30	50	30	6,3	4,40			3,20		6,0
S0561.AW1612	Chrome	60x120	17,2	8,2	60	90	120	36	8,2	1,50			1,30		4,5

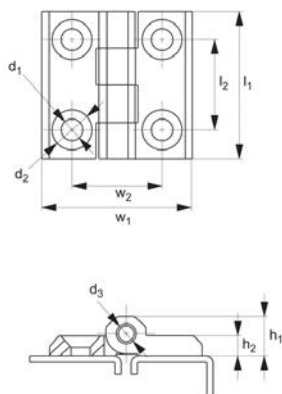


Surface Mount - Leaf Hinges

screw mount - polyamide



Hinges



S0563

HINGES

Material

Body: polyamide.
Pin: steel, nickel plated.

Technical Notes

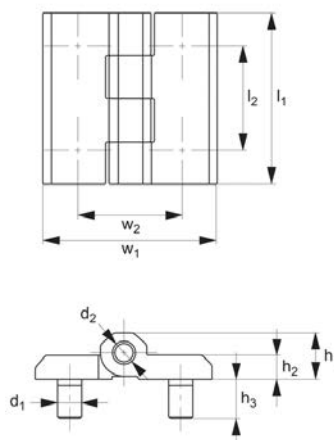
For plain/flush mounted doors, as well as electrical panels and covers. Opening

angle 180°.

Order No.	Size	h_1	h_2	l_2	w_1	w_2	F_x kN	F_y kN	d_1	d_2	d_3
S0563.AW0040	40 x 40	9.8	5	25	40	25	-	-	10.5	5.3	6
S0563.AW0050	50 x 50	11.5	5	30	50	30	1.2	1.3	12.5	6.3	6



S1101



Material

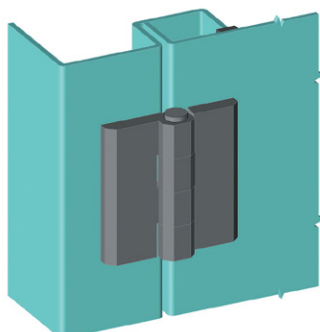
Body: die cast zinc, black powder coated.
Pin: steel, nickel plated.

Technical Notes

For plain/flush mounted doors, as well as electrical panels and covers.

Opening angle 180°.

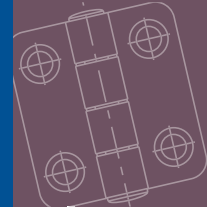
Order No.	Finish	Size	h_1	h_2	h_3	l_1	l_2	w_1	w_2	d_1	d_2	90° Angled stress	Axial load F_x N max.	Axial stress kN	Radial load F_x N max.	Radial stress kN
S1101.AW0040	Black Coated	40 x 40	9,0	5	10,0	40	25	40	25	M 5	4	1,85	1.2	0,9	1.0	1,7
S1101.AW0050	Black Coated	50 x 50	11,5	6	12,5	50	30	50	30	M 6	6	2,0	1.3	2,05	1.2	3,55
S1101.AW0057	Black Coated	50 x 70	11,5	6	12,5	50	30	76	56	M 6	6	2,00	1.2	1,5	11.2	3,00
S1101.AW0060	Black Coated	60 x 60	15,0	8	16,5	60	36	60	36	M 6	8	2,55	1.8	3,05	1.5	4,05
S1101.AW0612	Black Coated	60 x 120	15,0	8	16,5	60	36	120	88	M 8	8	1,5	1.2	1,5	1.12	4,5
S1101.AW0140	Chrome	40 x 40	9,0	5	10,0	40	25	40	25	M 5	4					
S1101.AW0150	Chrome	50 x 50	11,5	6	12,5	50	30	50	30	M 6	6					
S1101.AW0160	Chrome	60 x 60	15,0	8	16,5	60	36	60	36	M 8	8					



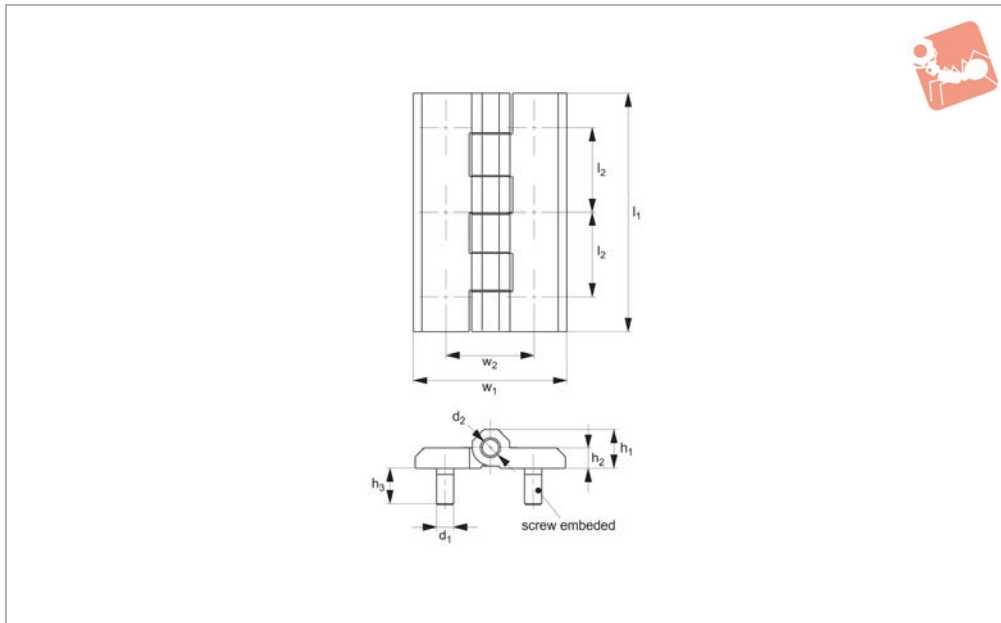


Surface Mount - Leaf Hinges

intergrated stud mount - zinc



Hinges



S1113

HINGES

Material

Hinge: die cast zinc, black powder coated.
Pin: nickel-plated steel.

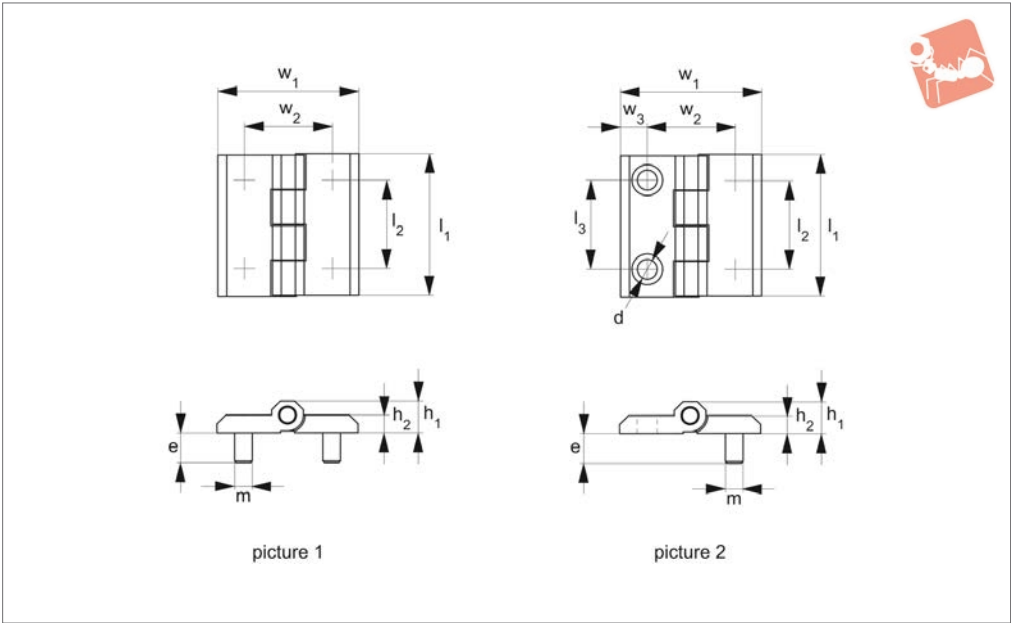
Technical Notes

Opening angel 180°.

Order No.	Type	h_1	h_2	h_3	l_1	l_2	w_1	w_2	F_x kN	F_y kN	d_1	d_2
S1113.AW0010	Left	15	8	14.5	90	32	60	36	1.12	1.2	M 8	8
S1113.AW0020	Right	15	8	14.5	90	32	60	36	1.12	1.2	M 8	8



S1120

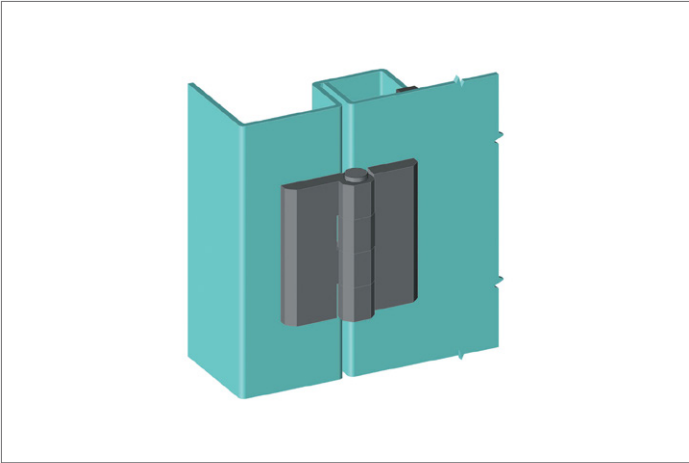


Material
Body: polyamide, DIN-EN ISO 1043-1 PA 6 GFR 30. Black.

Pin: stainless steel, AISI 304.
Technical Notes
For plain/flush mounted doors, as well as

electrical panels and covers.
Max. opening angle 270°.

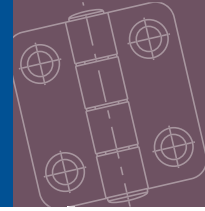
Order No.	Type	Finish	Size	Picture	e	h ₁	h ₂	l ₁	l ₂	l ₃	m	w ₁	w ₂	w ₃	d	Mounting
S1120.AW0050	Equal	Plastic	50 x 50	1	12.0	11	6	50	30	-	M 6	50	30	-	6.3	Rear - Rear
S1120.AW0040	Equal	Plastic	40 x 40	1	8.5	9	5	40	25	-	M 5	40	25	-	5.3	Rear - Rear
S1120.AW0150	Equal	Plastic	50 x 50	2	12.0	11	6	50	30	30	M 6	50	30	10	6.3	Rear - Front



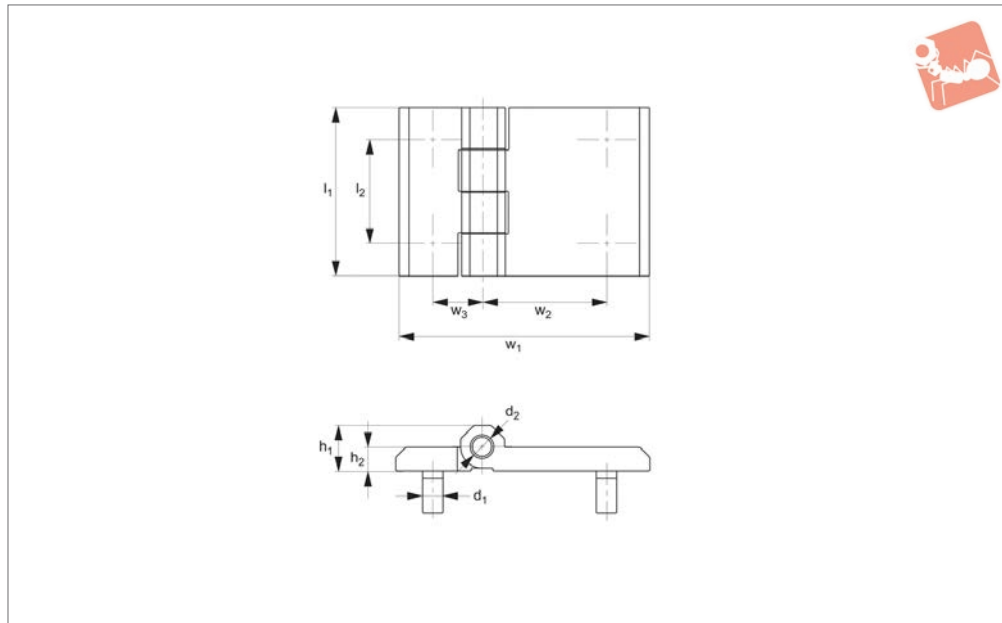


Surface Mount - Leaf Hinges

intergrated stud mount - zinc



Hinges



S1130

HINGES

Material

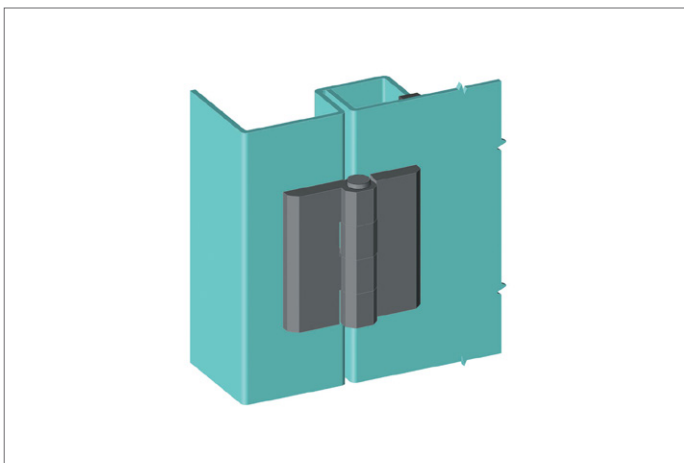
Hinge: die cast zinc, black powder coated.
Pin: nickel-plated steel.

Technical Notes

For plain/flush mounted doors, as well as electrical panels and covers. Opening

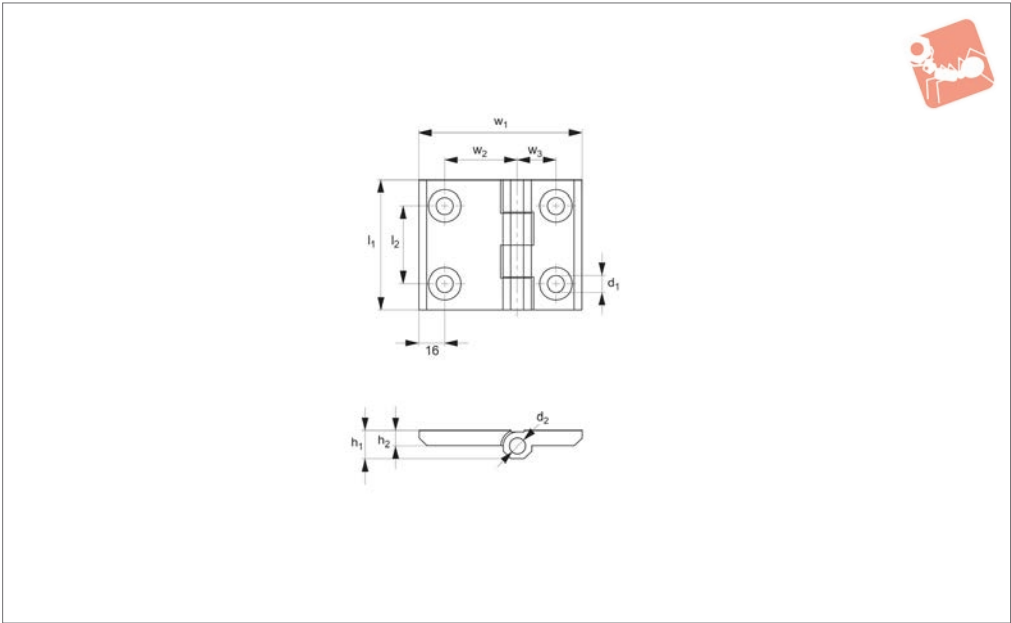
angle 180°.

Order No.	h_1	h_2	l_1	l_2	w_1	w_2	w_3	F_x kN	F_y kN	d_1	d_2	90° Angled stress	Axial stress kN	Radial stress kN
S1130.AW0050	11.5	6	50	30	63	28	15	1.12	1.2	M6	6	1.25	1.5	3.0
S1130.AW0060	15.0	8	60	36	90	44	18	1.12	1.2	M8	8	1.5	1.5	4.5





S1131



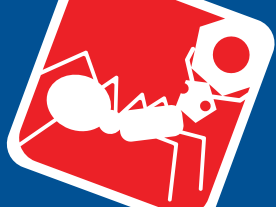
Material

Hinge: black powder, die cast zinc coated.
Pin: nickle-plated steel.

Technical Notes

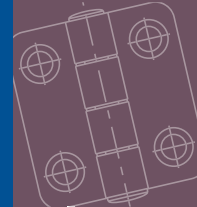
Opening angle 180°.

Order No.	h ₁	h ₂	l ₁	l ₂	w ₁	w ₂	w ₃	d ₁	d ₂	90° Angled stress	Axial load F _x N max.	Axial stress kN	Radial load F _x N max.	Radial stress kN
S1131.AW0060	15	8	60	36	90	44	18	8.4	8	1.5	1.2	1.5	1.12	4.5

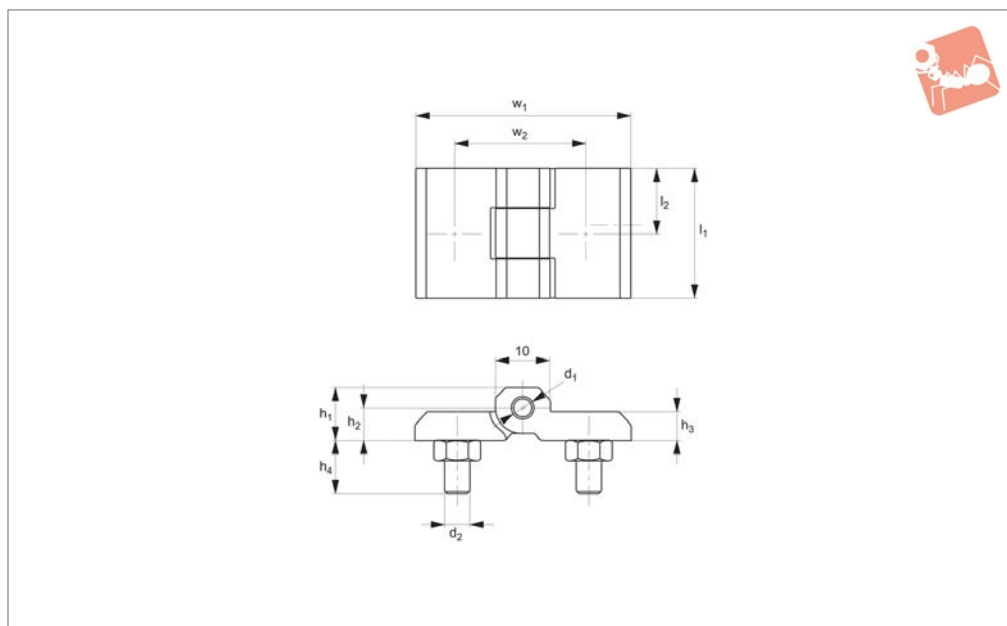


Surface Mount - Leaf Hinges

integrated stud - zinc



Hinges



S1133

HINGES

Material

Hinge: die cast zinc, black powder coated.
Supplied with: fixing nuts.

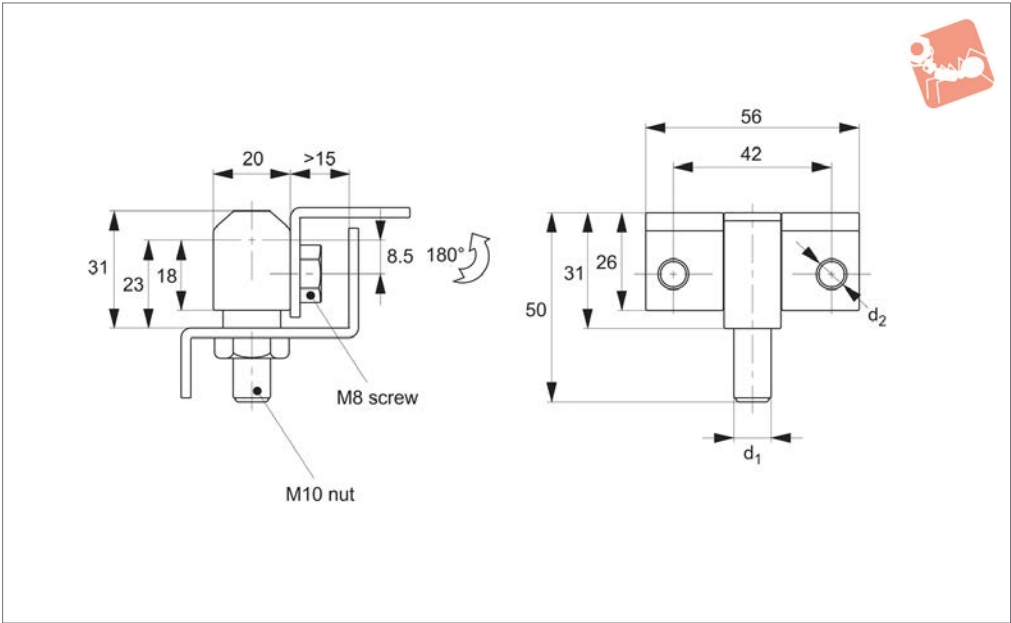
Technical Notes

Opening angle 180°.

Order No.	h_1	h_2	h_3	h_4	l_1	l_2	w_1	w_2	d_1	d_2	Axial load F_x N max.	Radial load F_x N max.
S1133.AW0010	9	5.5	5	12	24	12	40	25	4	M 5	210	520



S1170

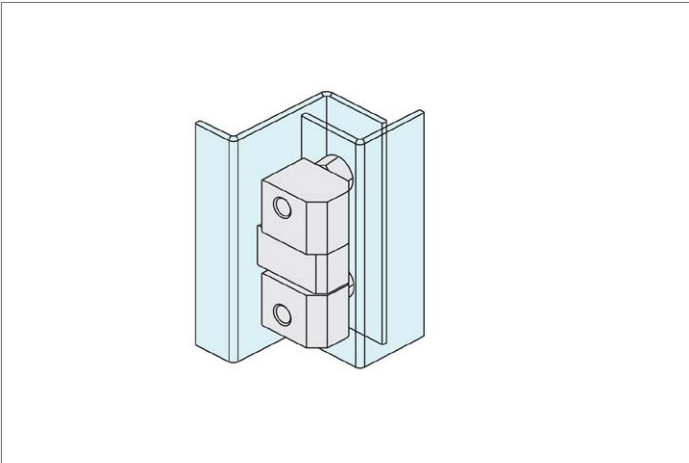


Material
Steel, bright chrome plated.

hinges, for electrical covers and panels.
Mounted via M8 screws (not supplied).

Technical Notes
Opening angle 180°. Side mounting

Order No.	Finish	F_x kN	F_y kN	d_1	d_2
S1170.AW0010	Chrome Plated	2.5	1.785	M10	M 8
S1170.AW0020	Black Coated	2.5	1.785	M10	M 8



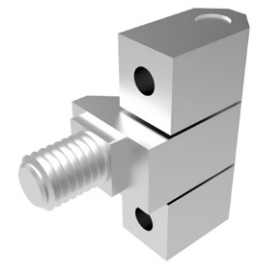
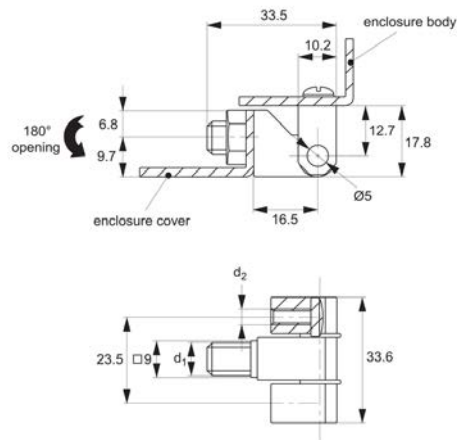


Surface Mount - In-line Hinges

intergrated stud and screw mount - zinc



Hinges



S1172

HINGES

Material

Hinge: die cast zinc.
Pin: steel.

angle 180°.

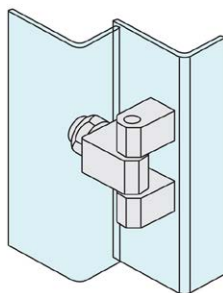
Tips

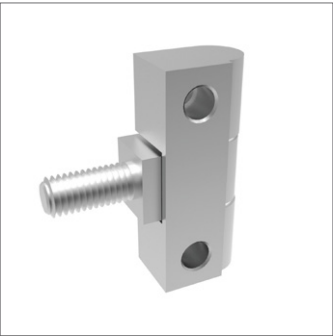
Parts supplied tightly fitted.

Technical Notes

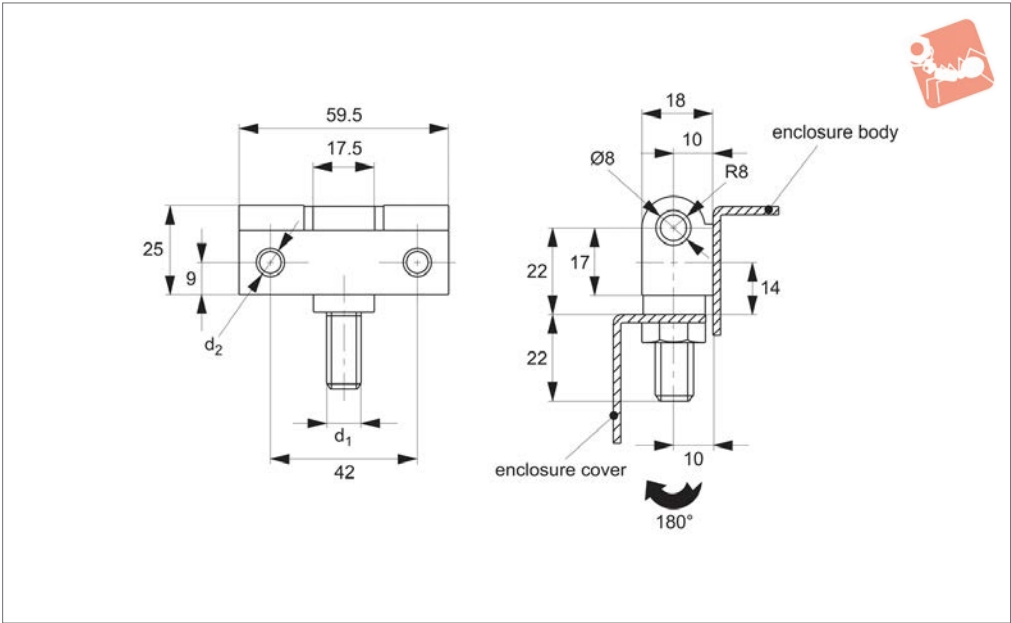
For electrical panels and covers. Opening

Order No.	Finish	Size	F _x kN	F _y kN	d ₁	d ₂	Opening angle °
S1172.AW0010	Chrome	33 x 21	1.2	1.0	M 8	M 4	180°
S1172.AW0020	Black Coated	33 x 21	1.2	1.0	M 8	M 4	180°





S1174



Material

Hinge: die cast zinc.

Max. opening angle 180°.

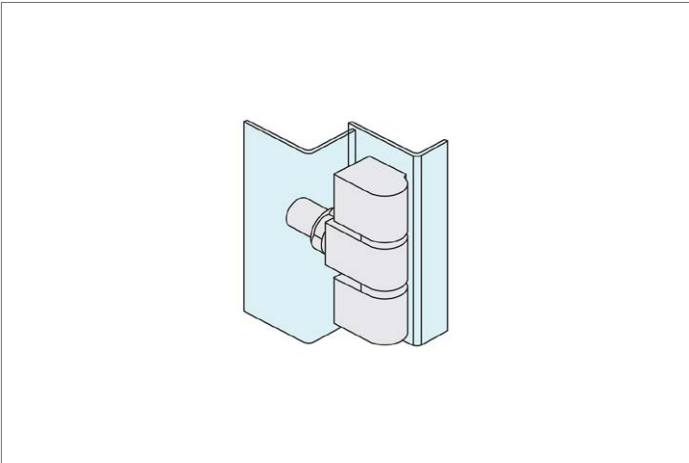
Tips

Parts supplied tightly fitted.

Technical Notes

For electrical panels and covers.

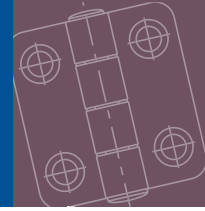
Order No.	Finish	Size	F _x kN	F _y kN	d ₁	d ₂	Opening angle
S1174.AW0010	Chrome Plated	59 x 18	2.0	1.52	M10	M 8	180°
S1174.AW0020	Black Coated	59 x 18	2.0	1.52	M10	M 8	180°



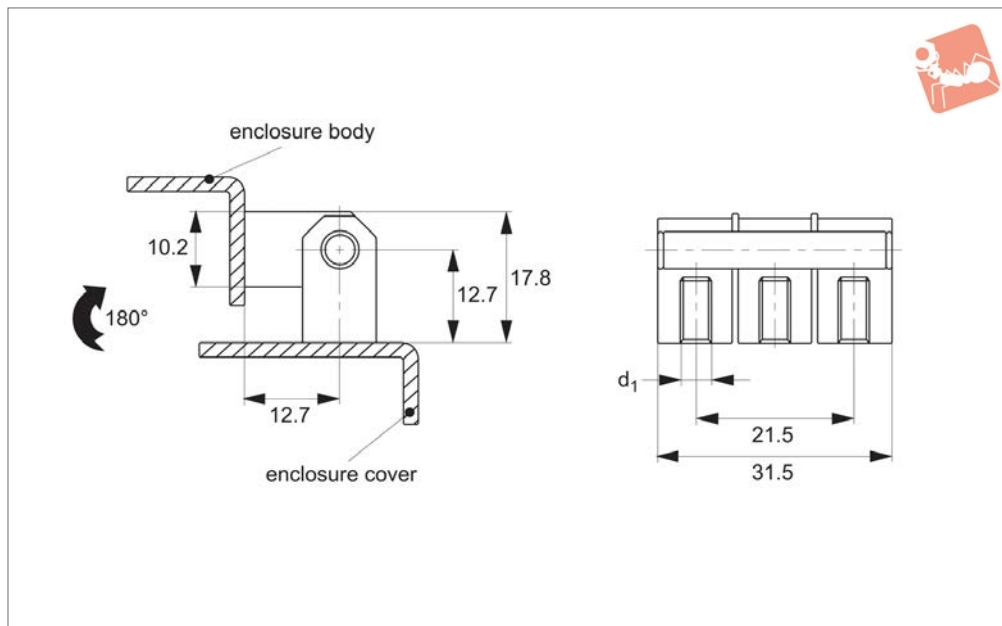


Surface Mount - In-line Hinges

bolt-on - zinc



Hinges



S1176

HINGES

Material

Hinge: die cast zinc.
Pin: steel.

Max. opening angle 180°.

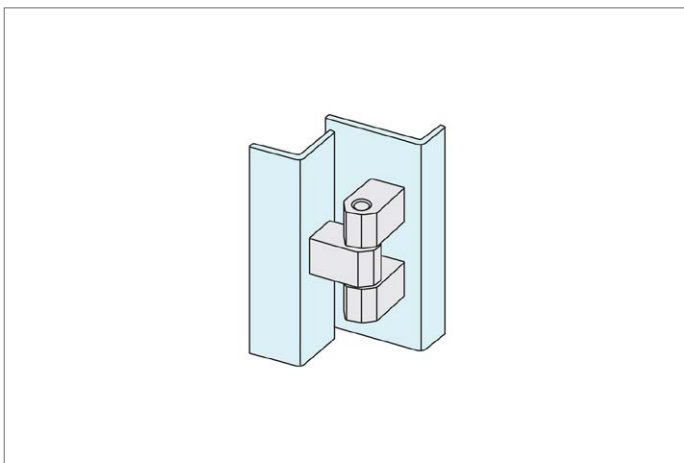
Tips

Parts supplied tightly fitted.

Technical Notes

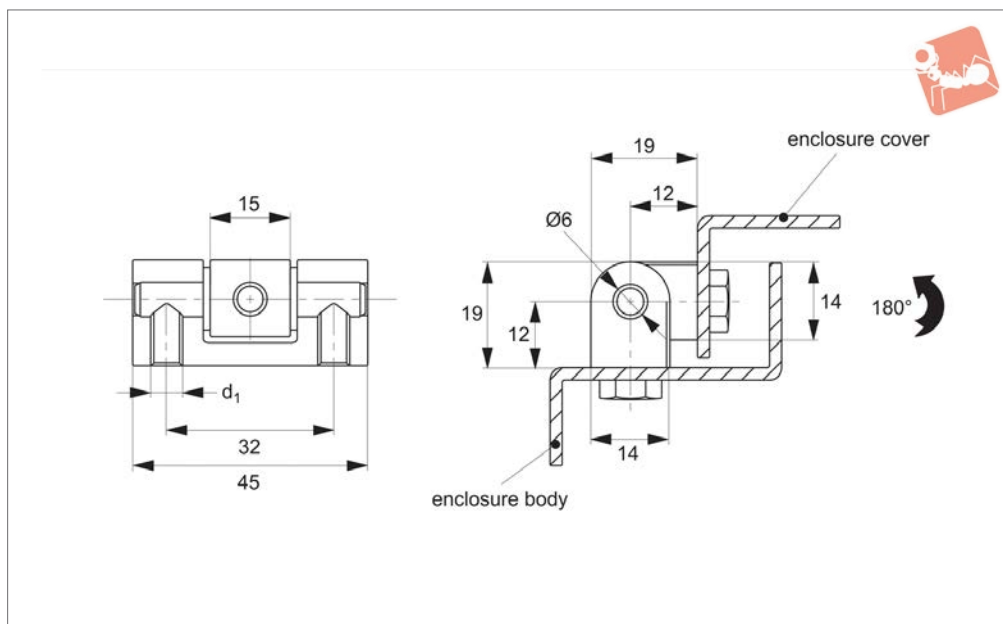
For electrical panels and covers.

Order No.	Finish	Size	F _x kN	F _y kN	d ₁	Opening angle °
S1176.AW0010	Chrome Plated	31 x 10	1.2	1.0	M 4	180°
S1176.AW0020	Black Coated	31 x 10	1.2	1.0	M 4	180°





S1192



Material

Hinge: die cast zinc.
Pin: steel, nickel-plated.
Bushing: PA.
Not supplied: SCREWS.

Technical Notes

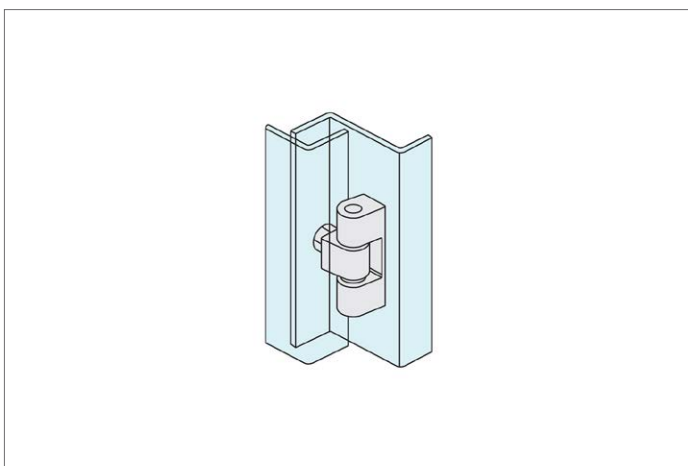
Universal left or right hand opening doors.
For external mounting on cabinets, surface mounted doors, sheet metal doors etc.
Mounting via concealed 3 x M6 screws.

Max. opening angle 180°.

Tips

Parts supplied tightly fitted.

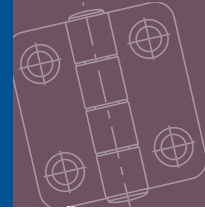
Order No.	Finish	Size	F _x kN	F _y kN	d ₁	Opening angle
S1192.AW0010	Chrome	45 x 14	1.675	2.0	M 6	180°
S1192.AW0020	Black Coated	45 x 14	1.675	2.0	M 6	180°



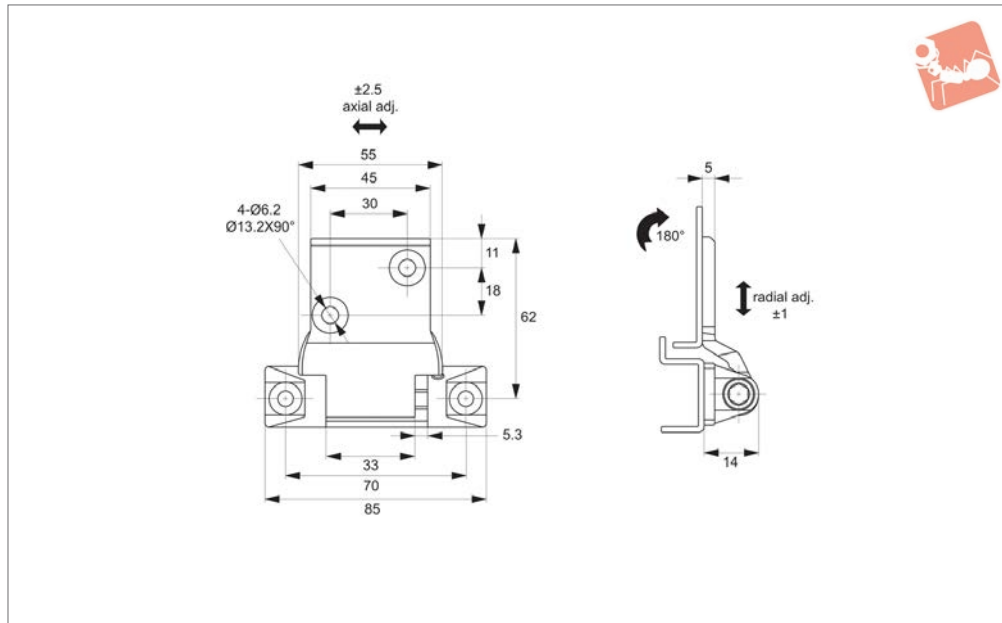


Surface Mount - HVAC Applications

axial adjustment - screw mount - zinc



Hinges



S1806

HINGES

Material

Die cast zinc, black powder coated.
Shaft: stainless steel AISI 304.
Bearing: delrin plastic.

Technical Notes

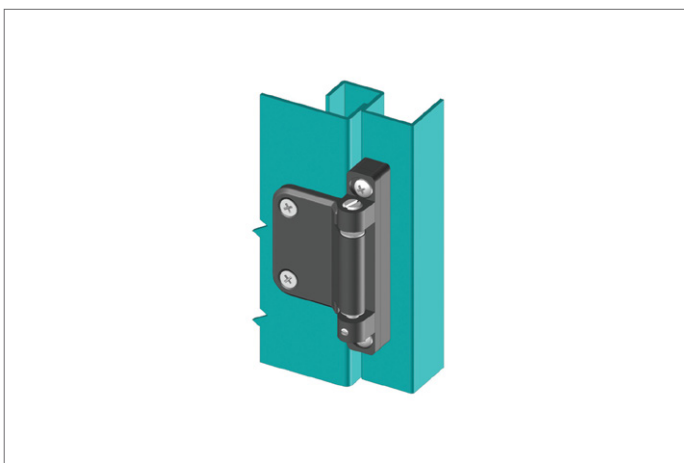
Ideal for heating and ventilation applica-

tions, for use on flat panels and covers.
Increase off-set via use of additional
spacers, for your own design (not
supplied).
Mounting via M5 screws.
Max. opening angle 180°.

Tips

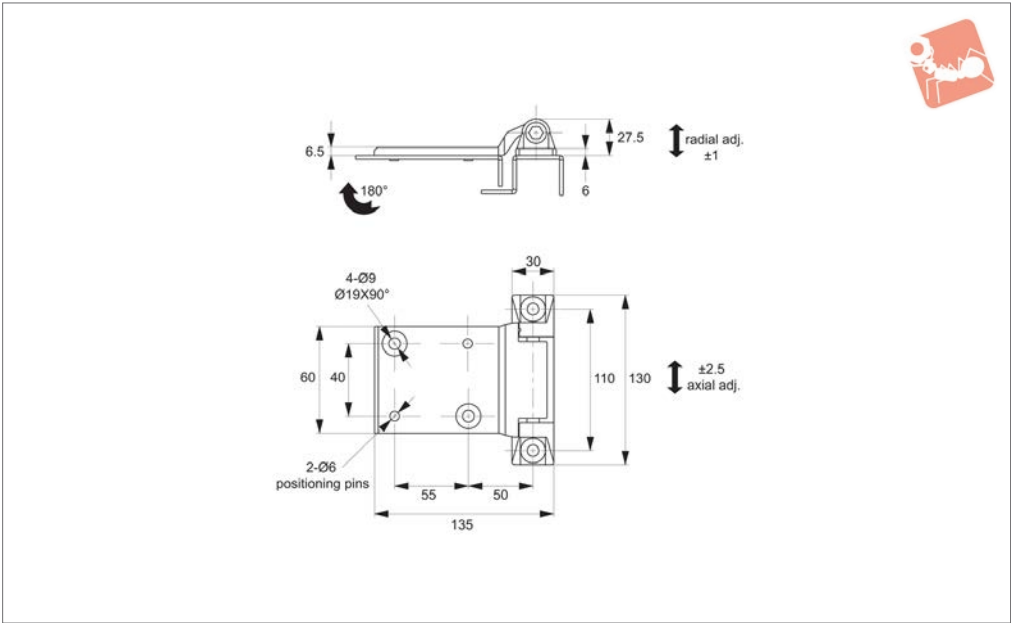
Maximum 5.3mm axial adjustment.

Order No.	Type	Finish	Size	F _x kN	F _y kN	Opening angle °
S1806.AW0010	Left Hand	Black coated	85 x 77	1.5	1.3	180°
S1806.AW0020	Right Hand	Black coated	85 x 77	1.5	1.3	180°





S1823



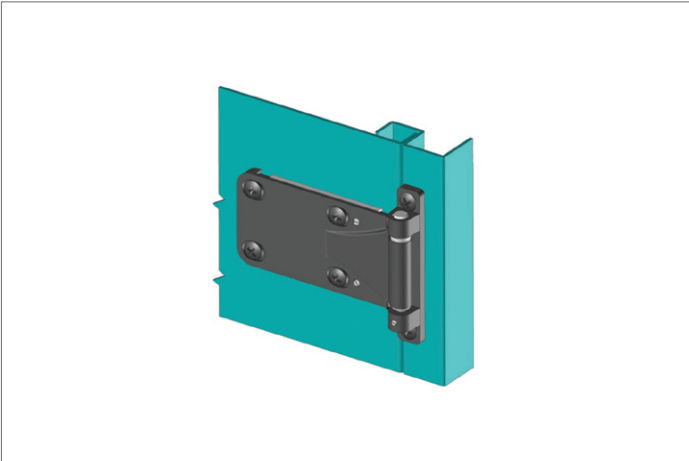
Material
Die cast zinc, pocked black powder coated.
Shaft: stainless steel AISI 304.

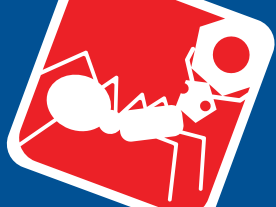
tions, for use on flat panels and covers.
Mounting via M8 screws.
Max. opening angle 180°. ± 1mm radial is possible.

Technical Notes
Ideal for heating and ventilation applica-

Tips
Adjustments of hinge by ± 2,5mm axial and

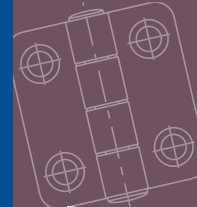
Order No.	Type	Finish	Size	F _x kN	F _y kN	Opening angle °
S1823.AW0010	Left Hand	Black Coated	130 x 135	1.8	1.5	180°
S1823.AW0020	Right Hand	Black Coated	130 x 135	1.8	1.5	180°



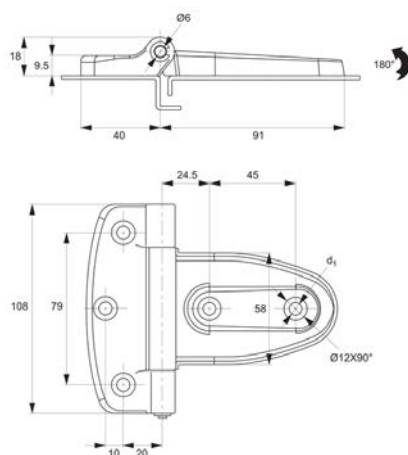


Surface Mount - HVAC Applications

screw mount - polyamide



Hinges



S1826

HINGES

Material

Hinge: polyamide (PA), black.

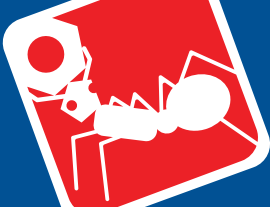
Pin: stainless steel AISI 304, nickel plated.

Technical Notes

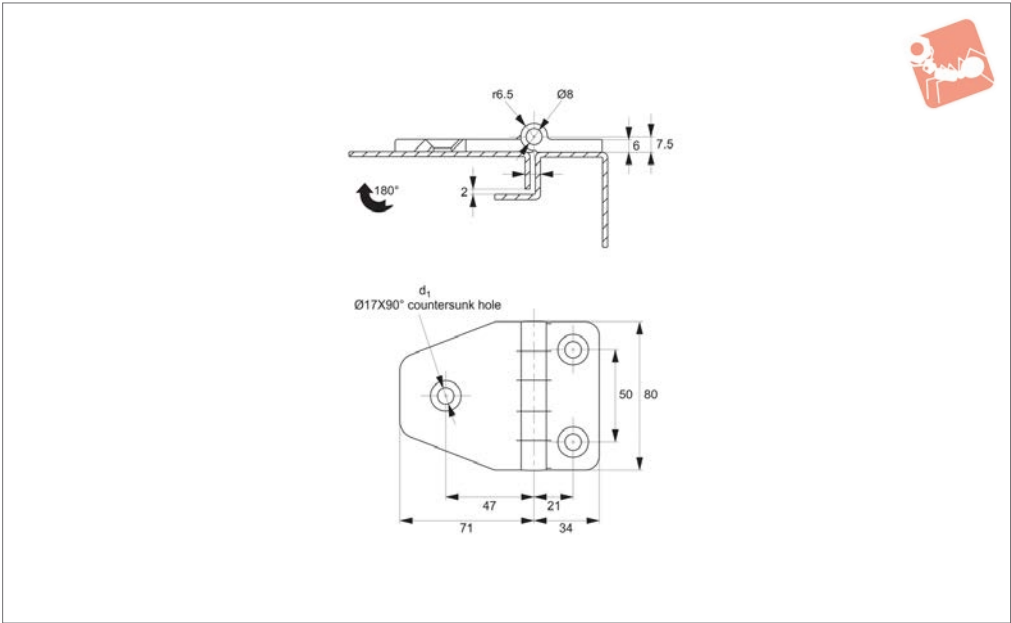
Opening angle 180°. Ideal for heating and ventilation applications, for use on flat panels and covers.

Mounting via M6 screws.

Order No.	Finish	Size	F_N^x	F_N^y	d_1	Opening angle
S1826.AW0010	Black Polyamide	108 x130	800	600	6.5	180°



S1828



Material

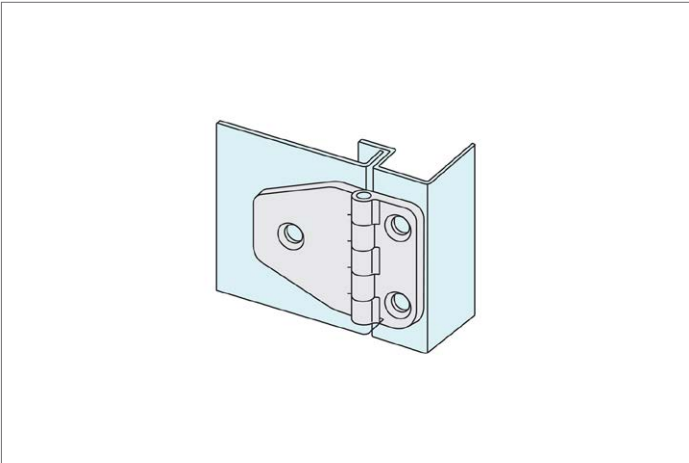
Polyamide plastic (PA), black.
Pin: steel, zinc plated.

Technical Notes

Opening angle 180°. Ideal for heating and ventilation apps, for use on flat panels and

covers. Mounting via M8 screws (not supplied).

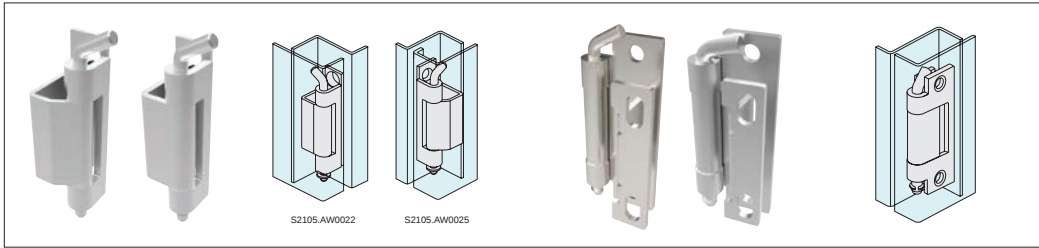
Order No.	Finish	Size	F _x N	F _y N	d ₁	Opening angle
S1828.AW0080	Black plastic	80 x 105	800	600	9	180°



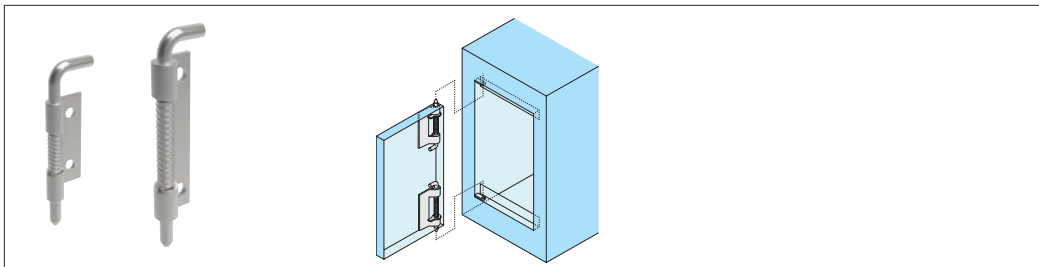


For added security or a sleek enclosure design, concealed hinges offer the solution with mounting discreetly hidden away from view to avoid tampering.

Concealed hinges



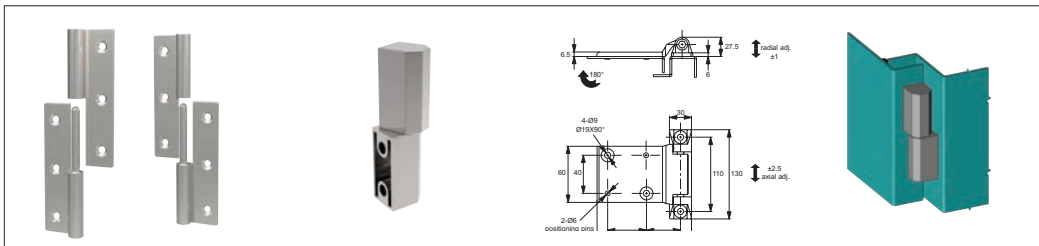
Concealed pivot hinges



End mount concealed pivot hinges

Door removal or lift-off hinges simplify removal of covers and panels to ease access for maintenance and repair, available in a selection of materials.

Door removal hinges



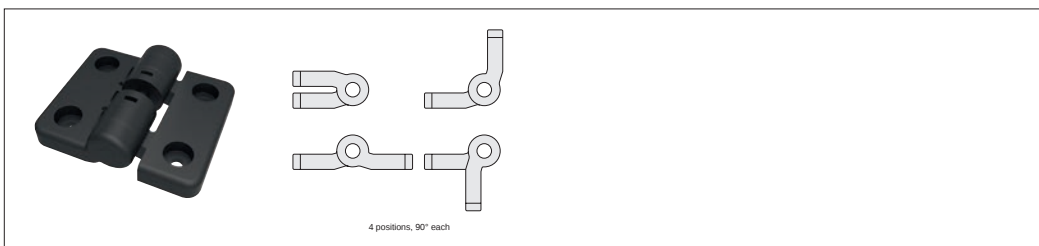
Lift off hinges

Torque and positioning hinges offer positive location of panels, screens and displays using constant friction for a firm hold.

Torque and positioning hinges



Constant torque hinges



Detent positioning hinges



Left or right type: Which do you need?

Wixroyd have a diverse range of hinges to suit most industrial applications in a wide range of materials and finishes.

Throughout our catalogue we refer to parts as being of a "Left" or "Right" type or hand. Which type you need, is most easily explained as follows;

Orientate your application so that when opened the door/panel comes towards you. With this orientation in mind, look to see on which side of the door/panel the hinges are mounted?

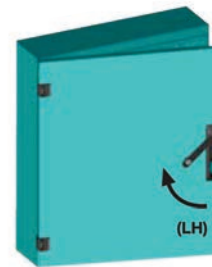
If the hinges are on the left side of the door/panel then you require "Left" type products. If the hinges are on the right side of the door/panel then you require "Right" type products.

The illustration on the right clearly indicates the layout and orientation of the door where a "left" or "right" product is used.

Right Hand Door (Hinges on right hand side).



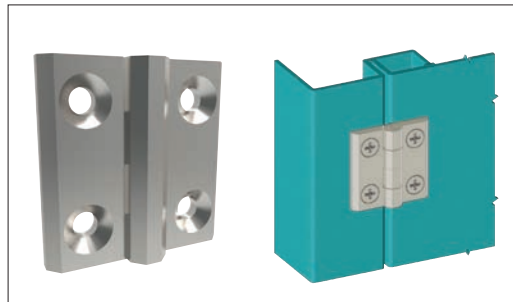
Left Hand Door (Hinges on left hand side).



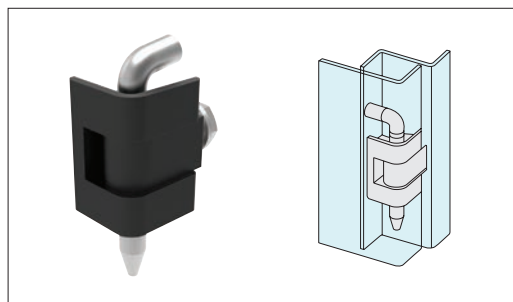
Hinges

External hinges

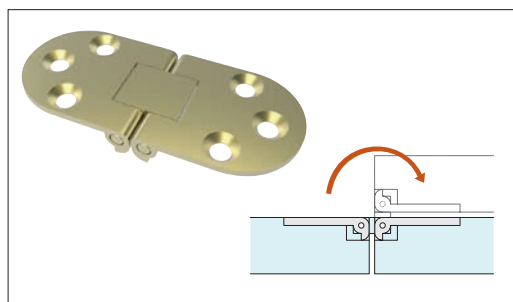
External or surface mount hinges have a wide range of application on electrical panels, sheet metal enclosures, generators and heating and venting applications.



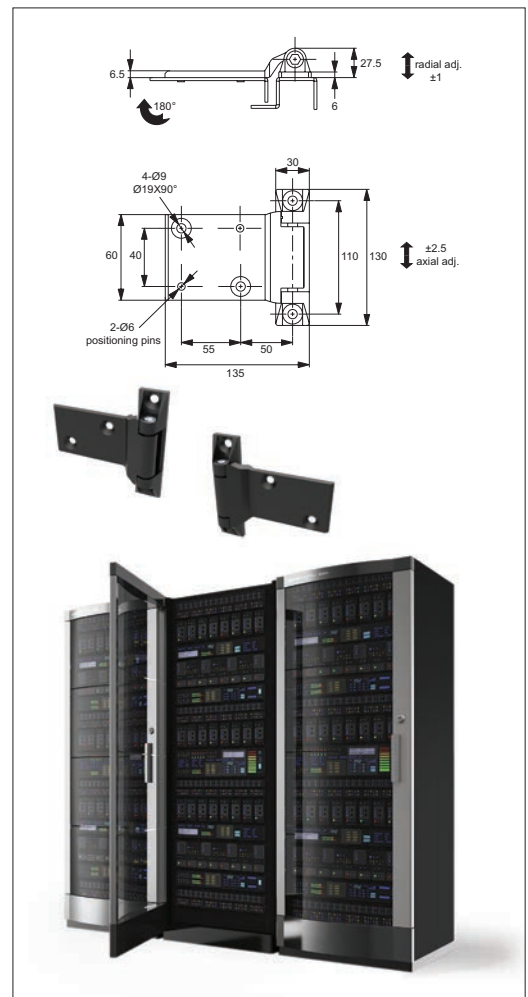
Surface mount hinges



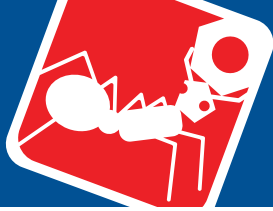
Corner hinges



Flush mount hinges

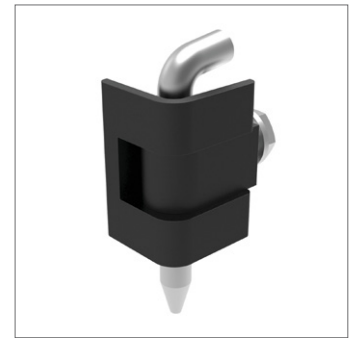


Surface mount hinges

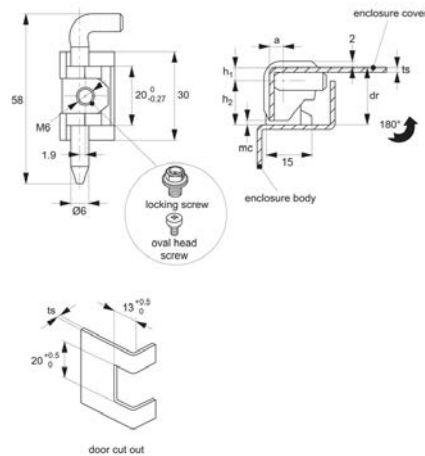


Corner Hinge - 19-24mm Door Return cut out and locking screw - zinc

Hinges



S1901



Material

Hinge: die cast zinc, black powder coated.
Pin: steel, nickel plated.

Technical Notes

Opening angle 180°. For sheet metal and machine enclosures with 19-24mm door

return and panel thickness 1,5 to 2,0mm.
See installation cut out for details.

Tips

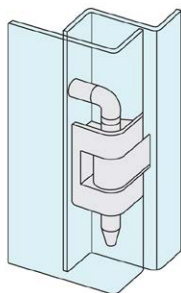
Mounting via M6 locking screw locking screw (not supplied).

Important Notes

dr= Maximum door return suitable for use with hinge.

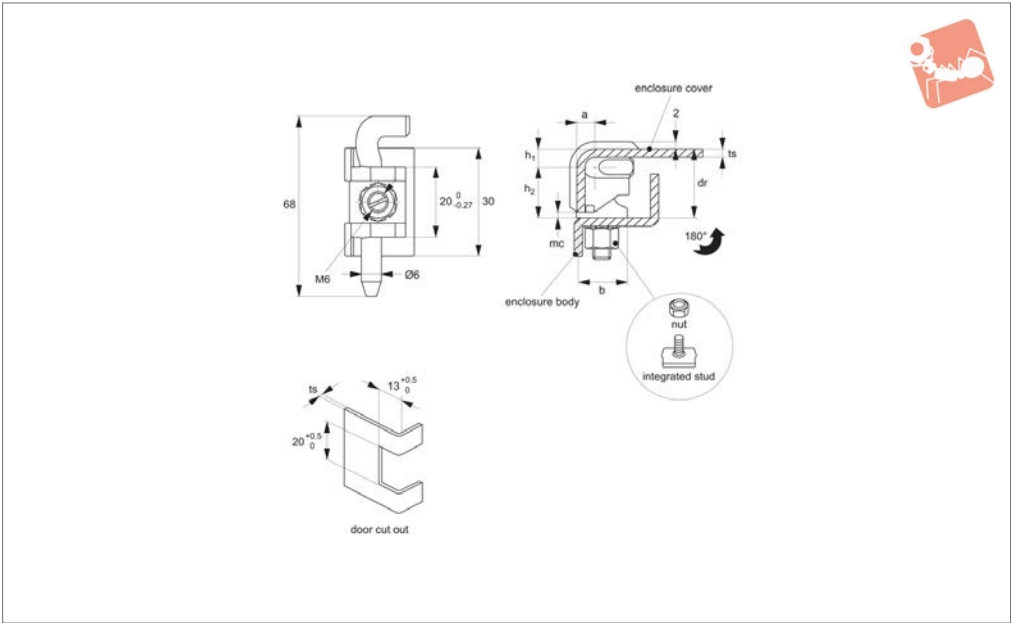
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Finish	Door return	h_1	h_2	F_x N	F_y N	mc min.	ts panel thickness
S1901.AW0015	Black Coated	19.6	4.6	15	940	720	2	1.5
S1901.AW0017	Black Coated	21.6	4.6	17	940	720	2	1.5
S1901.AW0019	Black Coated	23.6	4.6	19	940	720	2	1.5
S1901.AW0025	Black Coated	21.1	5.1	15	425	225	2	2.0
S1901.AW0027	Black Coated	22.1	5.1	17	425	225	2	2.0
S1901.AW0029	Black Coated	24.1	5.1	19	425	225	2	2.0
S1901.AW0999	Oval Head Screw	-	-	-	-	-	-	-





S1903



Material

Hinge: stainless steel AISI 304, wire-drawing polishing.

Technical Notes

For sheet metal and machine enclosures with a 19 to 21mm door return, up to 2mm thick. For installation dimension see cut

out detail.
Universal left or right hand opening doors.
Max. opening angle 180°.

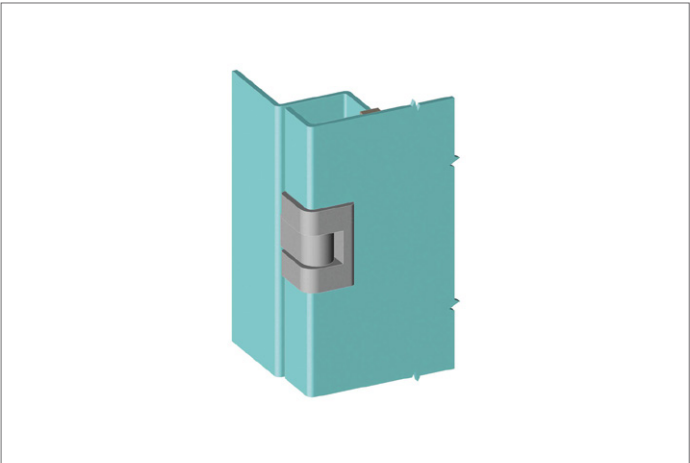
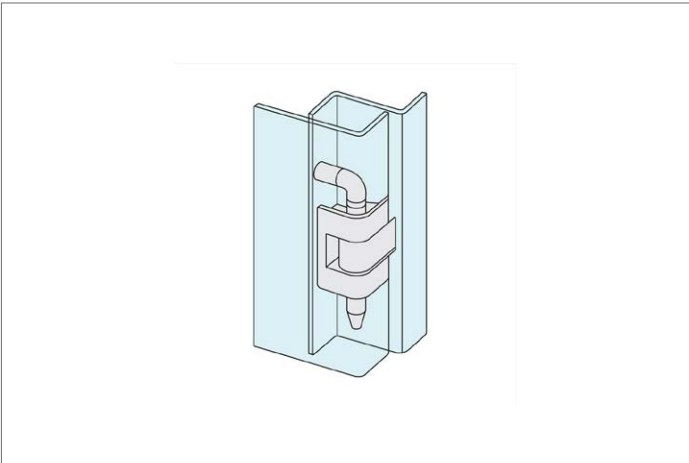
Tips

Use M6 nut on intergrated stud to secure (not supplied).

Important Notes

dr= Maximum door return suitable for use with hinge.
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

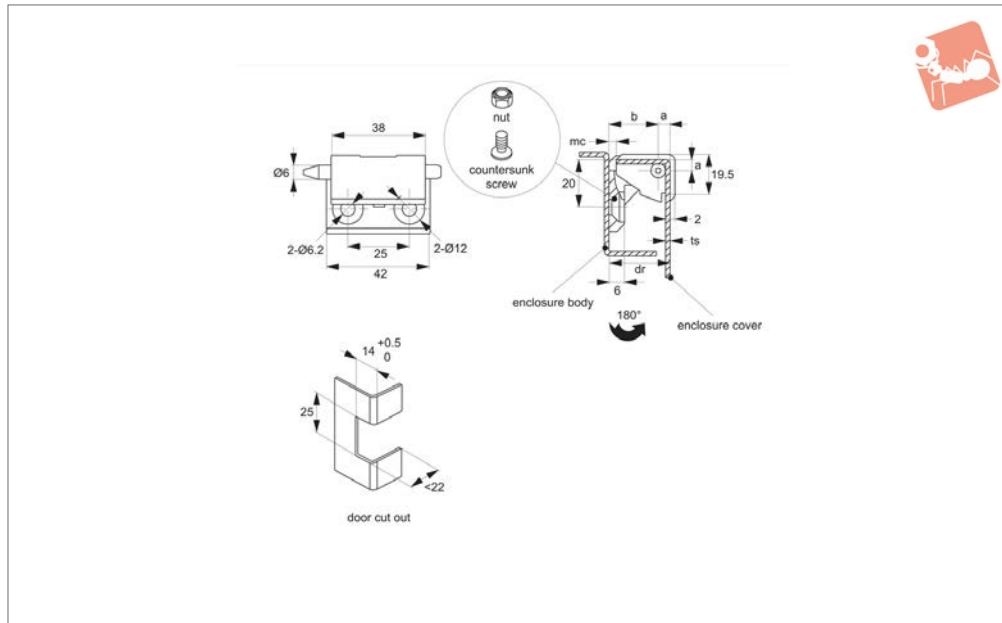
Order No.	Finish	Door return	h_1	h_2	F_x kN	F_y kN	mc min.	ts panel thickness
S1903.AW0015	Stainless	19.6	4.6	15	900	700	2	1.5





Corner Hinge - 24 to 26mm Door cut out and counter sunk screw - zinc

Hinges



S1911

Material

Hinge: die cast zinc, black powder coated.
Pin: steel, nickel-plated.

Technical Notes

For sheet metal and machine enclosures
with a 24 to 26mm door return up to 3mm

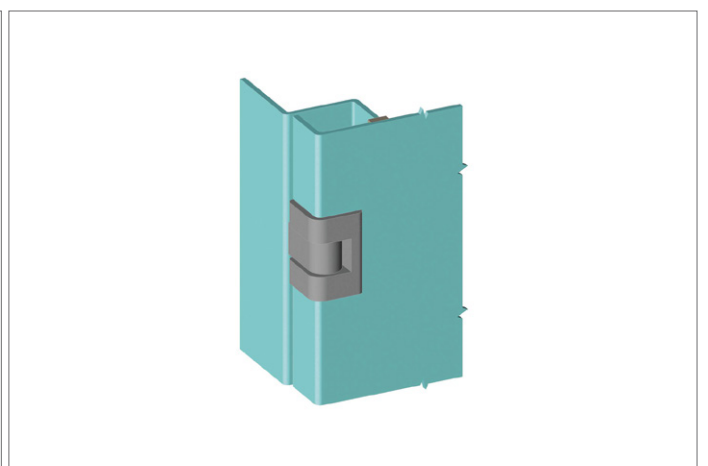
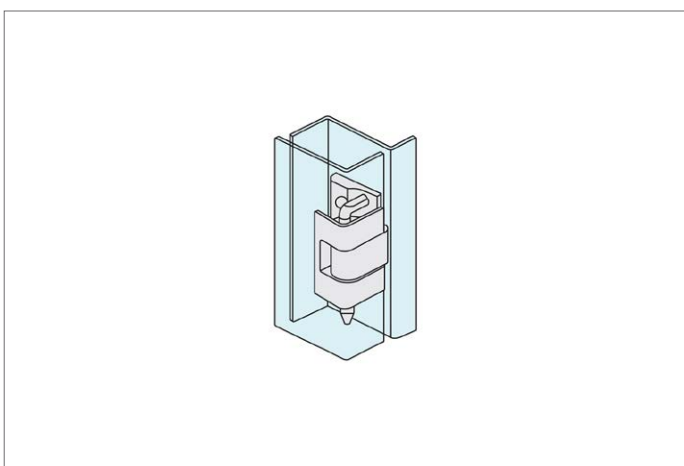
thick. For installation dimension see cut
out detail.
Mounting via M6 screws.
Universal left or right hand opening doors.
Max. opening angle 180°.

Important Notes

dr= Maximum door return suitable for use
with hinge.

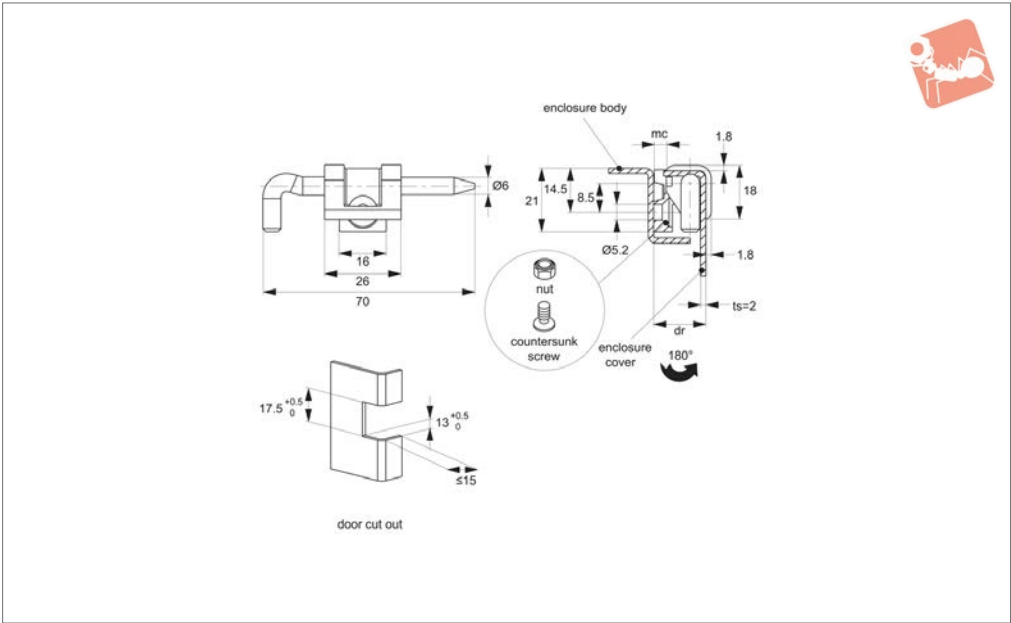
mc= Minimum clearance advised between
enclosure cover and body to ensure
smooth, full opening of enclosure cover.

Order No.	Finish	Door return	a	b	F _x N	F _y N	mc min.	ts panel thickness
S1911.AW0001	Black coated	24.1	4.6	20	1050	980	3	1.5
S1911.AW0002	Black coated	25.1	5.1	20	1050	980	3	2.0
S1911.AW0003	Black coated	26.1	6.1	20	1050	980	3	3.0





S1921



Material

Hinge: die cast zinc, black powder coated.
Pin: stainless steel AISI 304.

Technical Notes

For sheet metal and machine enclosures
with a 17mm door return, upto 2mm thick.
For installation dimension see cut out

detail.

Universal left or right hand opening doors.
Max. opening angle 180°.

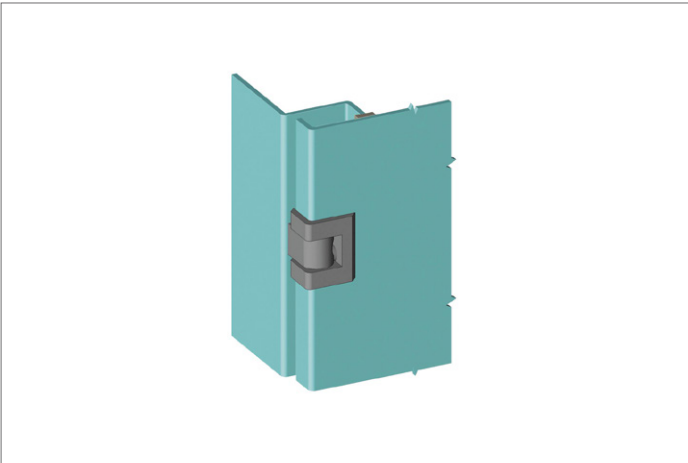
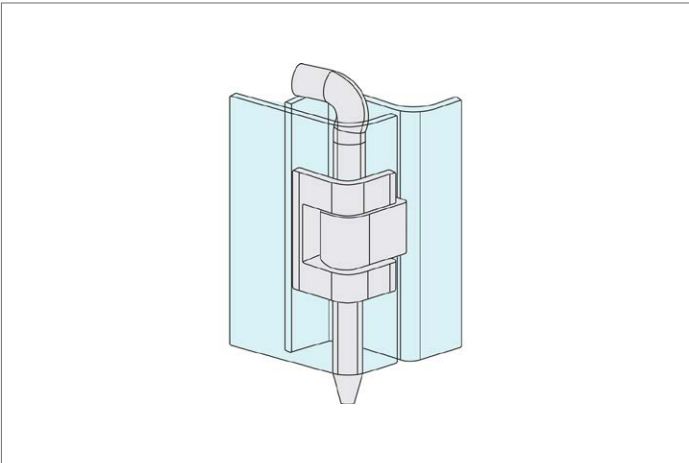
Tips

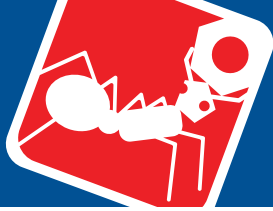
Mounting via M5 countersunk screws (not
supplied).

Important Notes

dr= Maximum door return suitable for use
with hinge.
mc= Minimum clearance advised between
enclosure cover and body to ensure
smooth, full opening of enclosure cover.

Order No.	Finish	Door return	F_x N	F_y N	mc min.	ts panel thickness
S1921.AW0010	Black coated	17	405	805	2	2.0



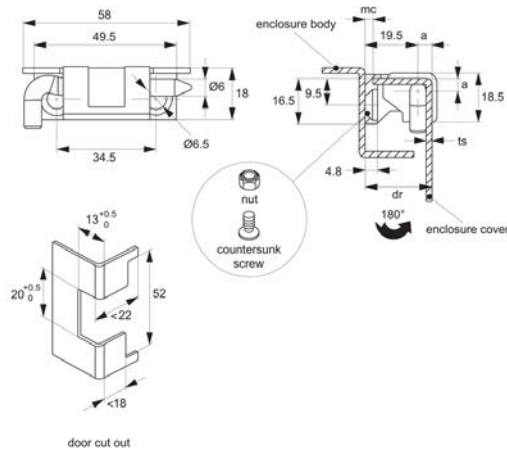


Corner Hinge - 24mm Door Return cut out and countersunk screw - zinc

Hinges



S1926



Material

Hinge: die cast zinc, black powder coated.
Pin: steel, nickel-plated.

Technical Notes

For sheet metal and machine enclosures with a 24mm frame off-set, upto 2mm thick. For installation dimension see cut

out detail.

Universal left or right hand opening doors.
Max. opening angle 180°.

Tips

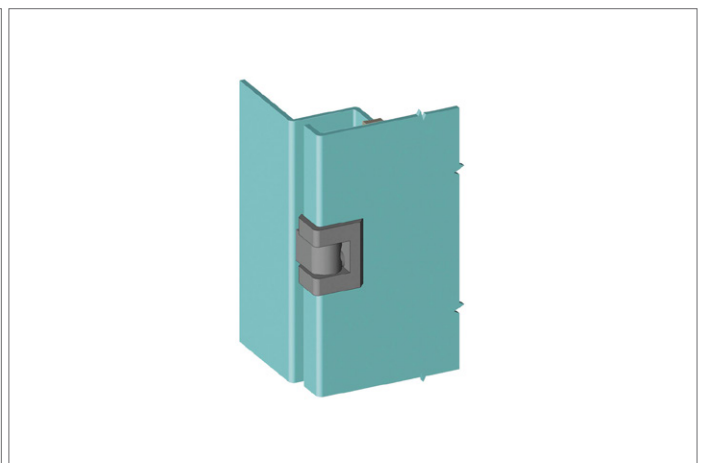
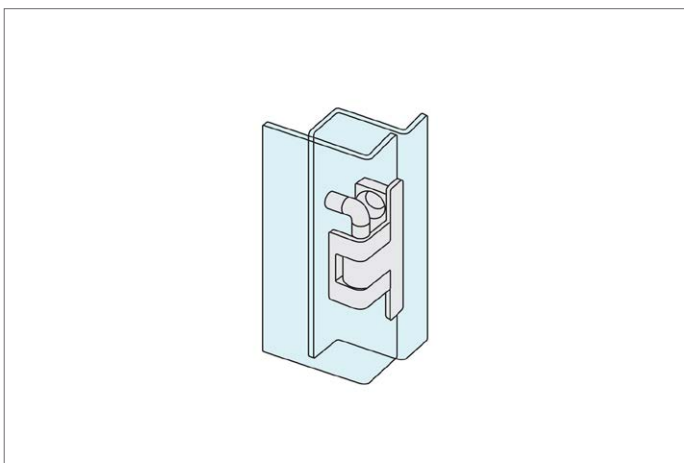
Mounting via M6 countersunk screws (not supplied).

Important Notes

dr= Maximum door return suitable for use with hinge.

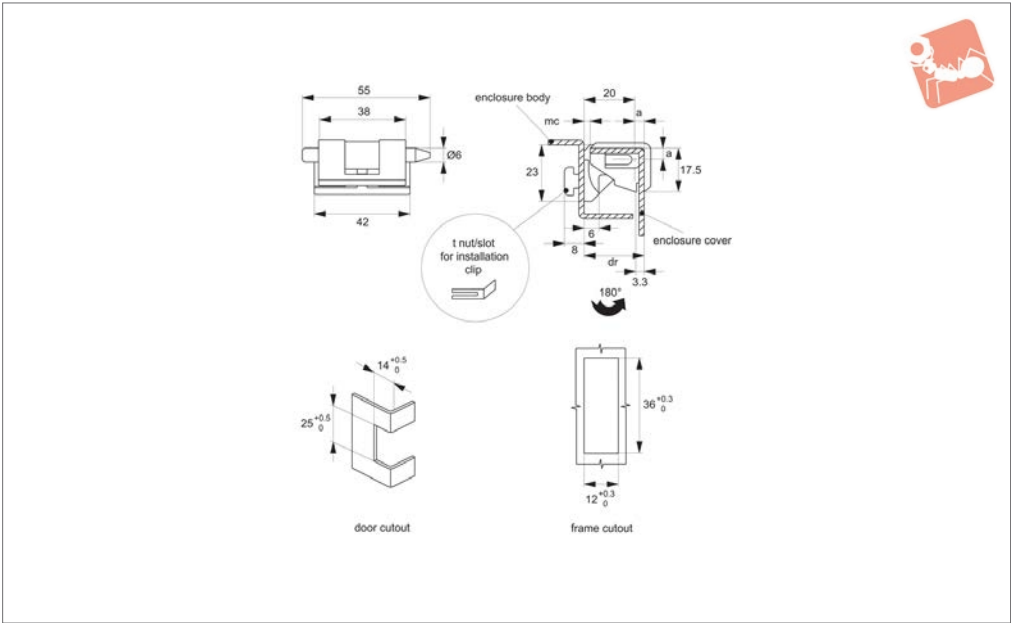
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Finish	Door return	a	b	F _x kN	F _y kN	mc min.	ts panel thickness
S1926.AW0001	Black Coated	24.1	4.6	19.5	1.5	1.8	2.0	1.5
S1926.AW0002	Black Coated	24.6	5.1	19.5	1.5	1.8	2.0	2.0





S1928



Material

Hinge: die cast zinc, black powder coated.
Pin: steel, nickel-plated.

Technical Notes

Opening angle 180°.

Tips

Mounting via use of installation clip and

„t-nut“ slot on hinge body. Requires additional cutout in frame (see technical drawing).

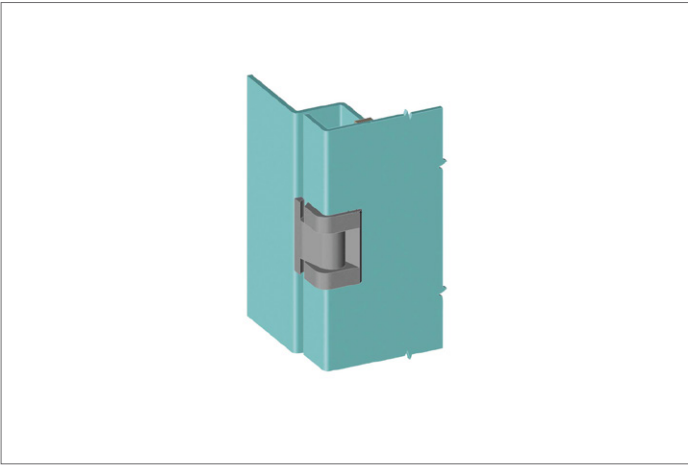
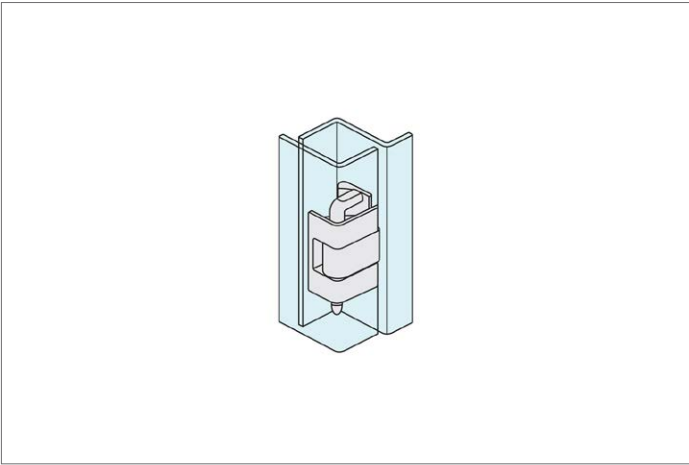
Important Notes

dr= Maximum door return suitable for use with hinge.

mc= Minimum clearance advised between

enclosure cover and body to ensure smooth, full opening of enclosure cover.

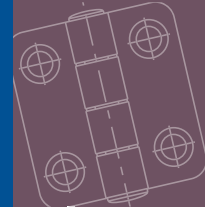
Order No.	Finish	Door return	a	b	F _x N	F _y N	mc min.	ts panel thickness
S1928.AW0001	Black Coated	24.6	4.6	20	1050	980	3	1.5
S1928.AW0002	Black Coated	25.1	5.1	20	1050	980	3	2.0
S1928.AW0003	Black Coated	26.1	6.1	20	1050	980	3	3.0



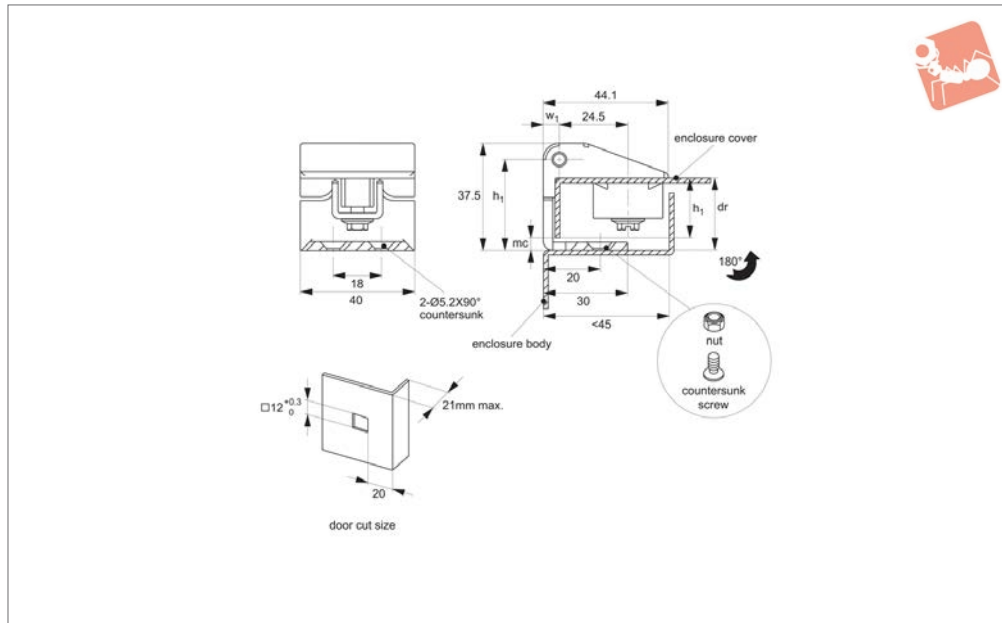


Corner Hinge 25,5mm Door Return

cut out and countersunk screw - zinc



Hinges



S1941

HINGES

Material

Door-part: die cast zinc, black coated.
Frame-part and pin: steel, black coated.

Technical Notes

For sheet metal and machine enclosures with a 25,5mm door return, up to 2mm

thick. For installation dimension see cut.
Universal left or right hand opening doors.
Max. opening angle 180°.

Tips

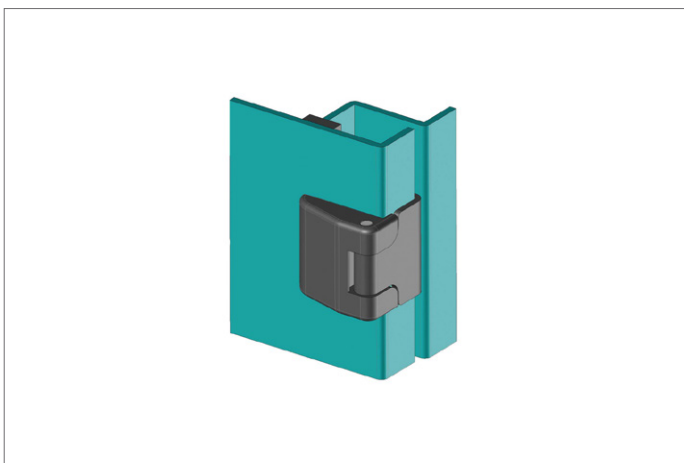
Mounting via M5 countersunk screws (not supplied), and support bracket (supplied)

Important Notes

dr= Maximum door return suitable for use with hinge.

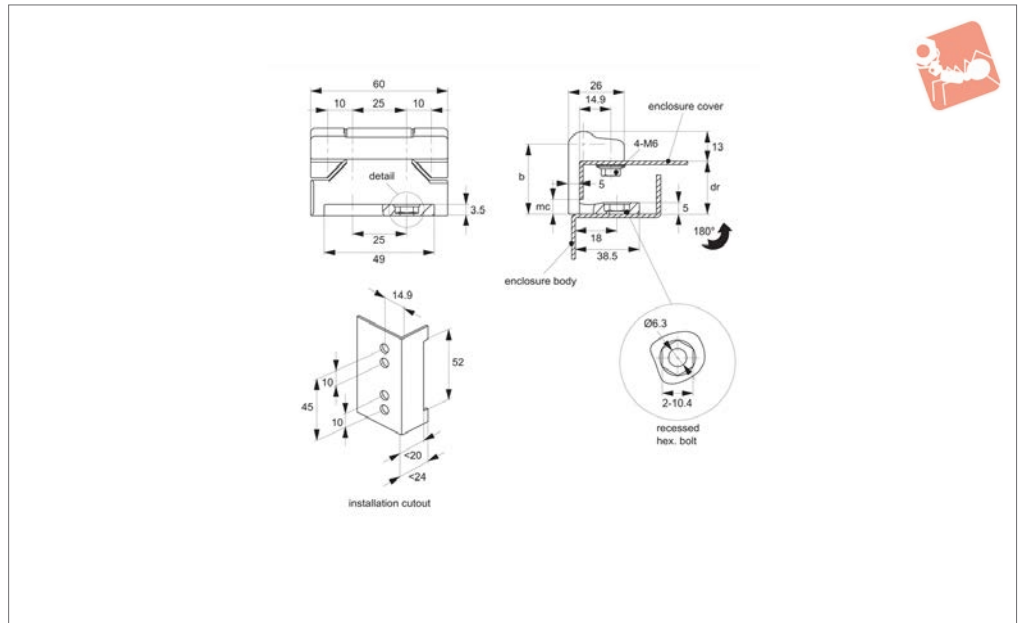
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Finish	Door return	h_1	w_1	F_x N	F_y N	mc min.	ts panel thickness
S1941.AW0010	Black Coated	25.5	32	5.6	300	250	4	2





S1942



Material

Hinge: die cast zinc, black powder coated.
Pin: steel, black-plated.
Bearing washer: brass.

Technical Notes

For sheet metal and machine enclosures with a 25,5mm door return, up to 2mm

thick. For installation dimension see cut.
Universal left or right hand opening doors.
Max. opening angle 180°.

Tips

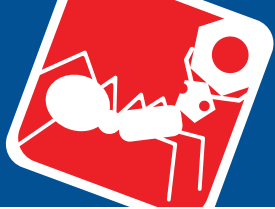
Mounting via M6 bolts with hex head of 10mm a/f (not supplied).

Important Notes

DR= Maximum door return suitable for use with hinge.

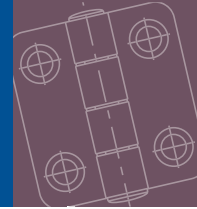
MC= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Finish	Door return	a	b	F _x N	F _y N	mc min.	ts panel thickness
S1942.AW010	Black Coated	25	5.6	32	980	630	5	2

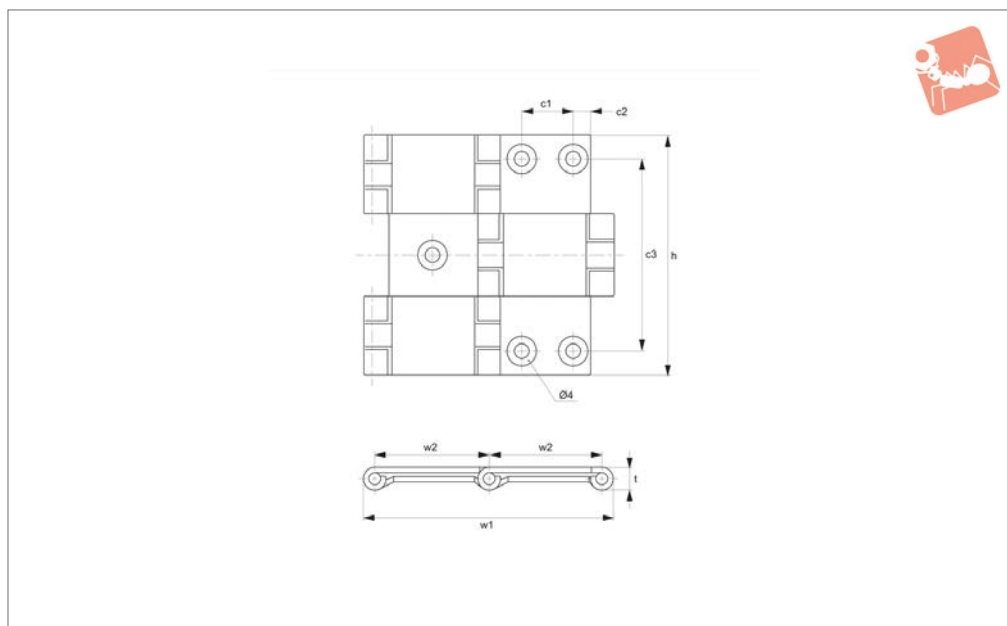


Surface Mount - Double Pivot

screw mount - stainless steel



Hinges



S2010

HINGES

Material

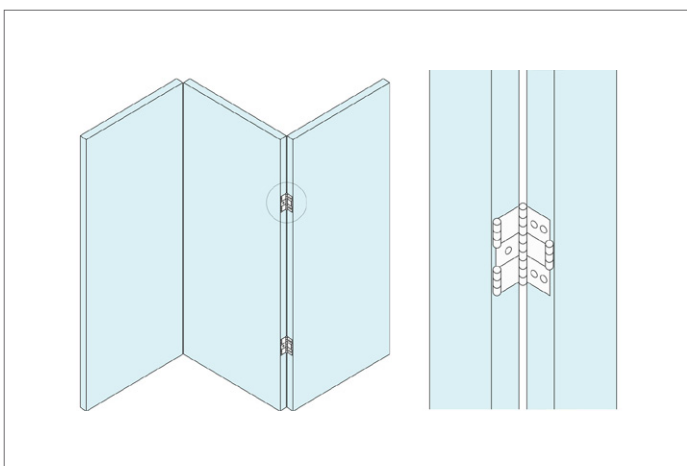
Stainless steel, AISI 304, satin finish.

Max. door size - 450w x 700h x 21mm thick. Max. door weight - 2,6Kg per hinge pair.

Technical Notes

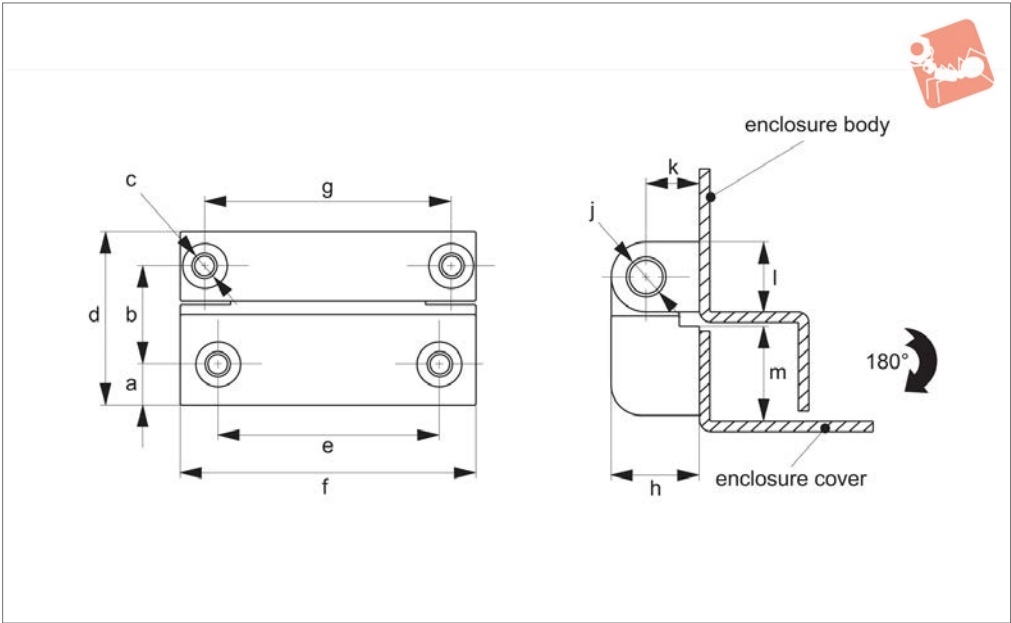
Universal left and right swing of 180°.

Order No.	c ₁	c ₂	c ₃	t	w ₁	w ₂	y	Weight g
S2010.AC0060	13.5	4.8	47	5.6	64	29.0	60	65
S2010.AC0070	13.5	6.8	57	7.5	78	35.0	70	130
S2010.AC0080	22.0	6.5	66	7.5	94	43.2	80	175





S2015



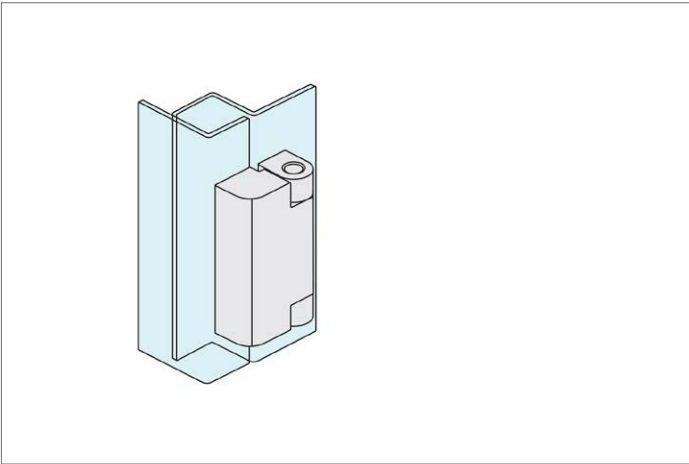
Material

Hinge: die cast zinc, black powder coated.
Pin: steel, nickel-plated.

Technical Notes

Opening angle 180°. Mounting via screws
dimension c.

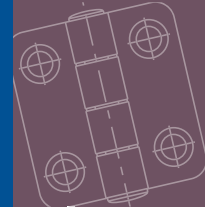
Order No.	a	b	c	e	g	h	l	j	k	m	f	F_x N	F_y N	d
S2015.AW0022	4	13.0	M 4	22	22	13	10	Ø5	8	9.0	30	600	460	22.0
S2015.AW0028	4	18.5	M 4	22	22	13	10	Ø5	8	14.5	30	700	800	27.5
S2015.AW0035	8	20.0	M 5	45	50	18	14	Ø8	11	18.0	60	1000	1200	35.0



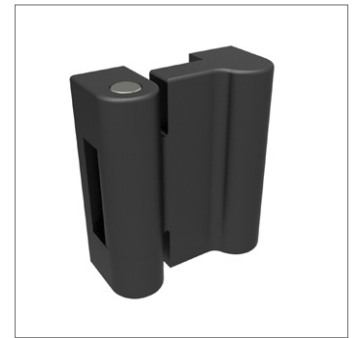
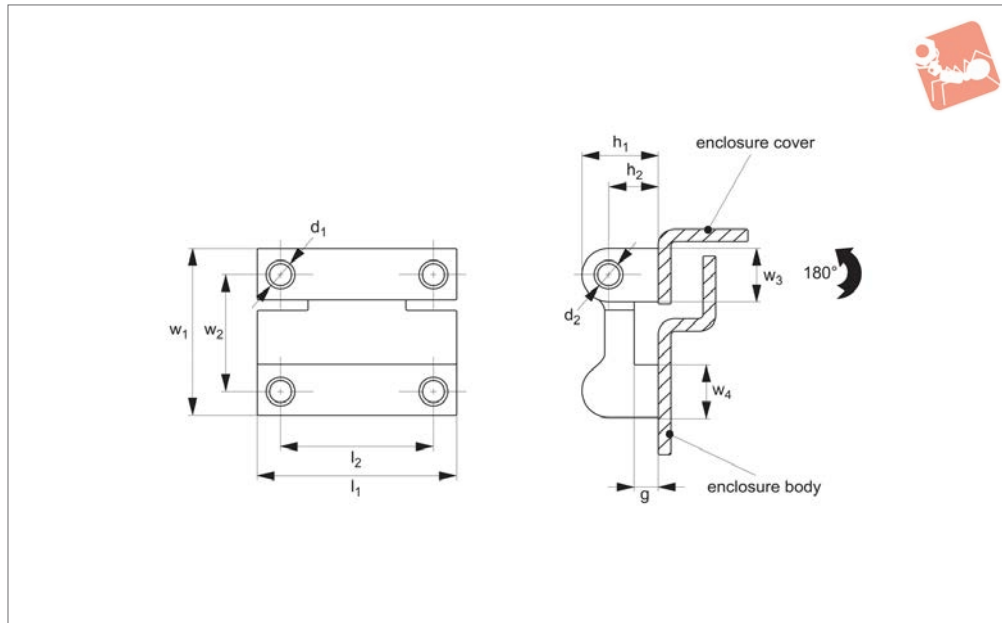


Surface Mount - Off-Set - Mount

bolt-on - zinc



Hinges



S2017

HINGES

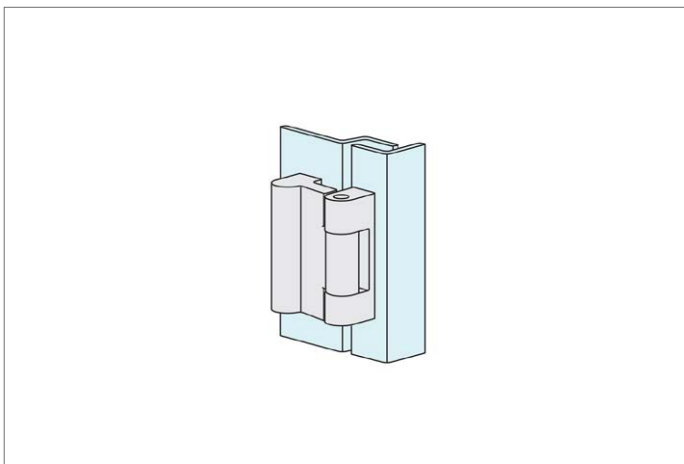
Material

Body: die cast zinc, black powder coated.
Pin: steel, nickel plated.

Technical Notes

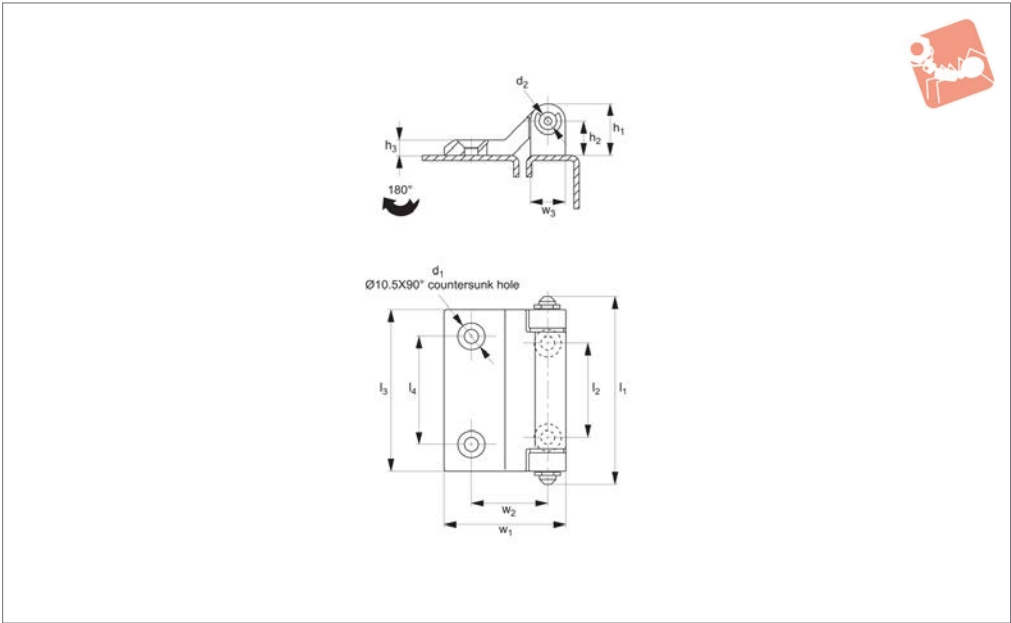
Opening angle 180°. Mounting via M4 screws.

Order No.	Finish	h_1	h_2	l_1	l_2	w_1	w_2	w_3	w_4	F_x N	F_y N	d_1	d_2	g off set
S2017.AW0030	Black Powder Coated	11.5	7.5	30	23	26	18	8	8	1150	700	M 4	4	3.5





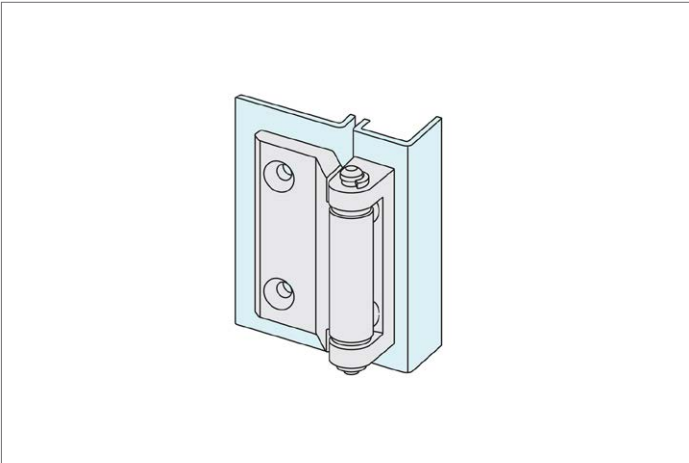
S2030



Material
Body: die cast zinc, black powder coated.
Pin: steel, nickel plated.

Technical Notes
Opening angle 180°. Mount via M5 screw
(not supplied).

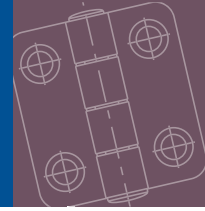
Order No.	Finish	h_1	h_2	h_3	l_1	l_2	l_3	l_4	w_1	w_2	w_3	F_x N	F_y N	d_1	d_2
S2030.AW0030	Black Coated	18	13	6	70	35	60	40	45	28.7	13	55	75	5.5	6.5



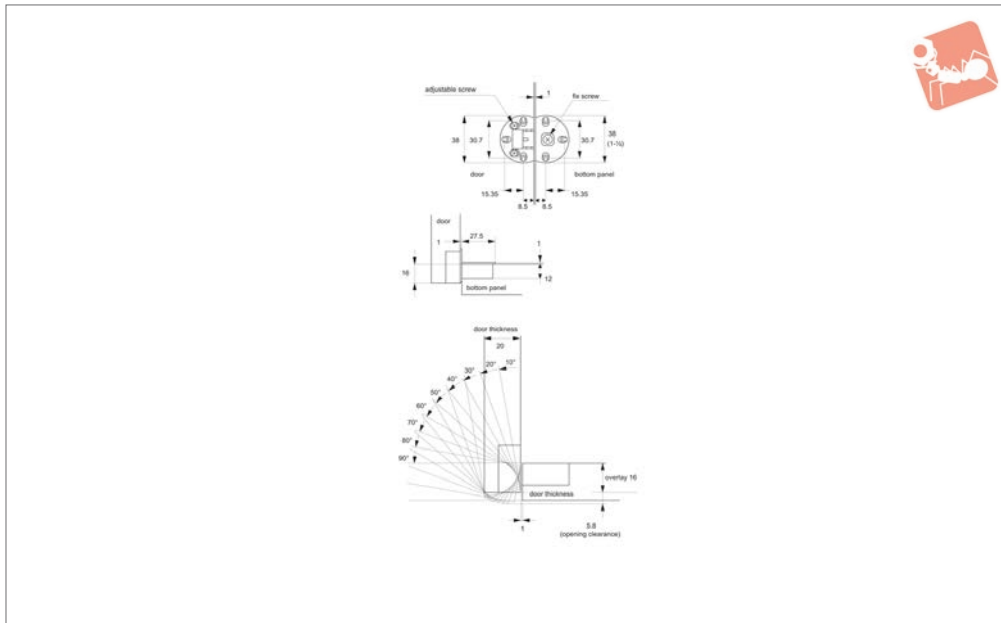


Flush Mount - Drop Lid Hinges

overlay - zinc



Hinges



S2050

HINGES

Material

Die cast zinc, nickel plated.

Technical Notes

Hinge flush when opened.

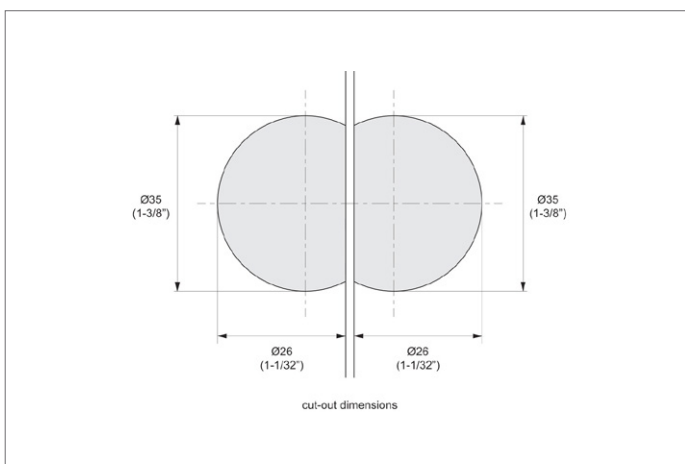
Max door thickness: 16-20mm. Overlay coverage: 14-16mm.

Hinge alignment adjustable after installation. Max. opening angle 90°.

Important Notes

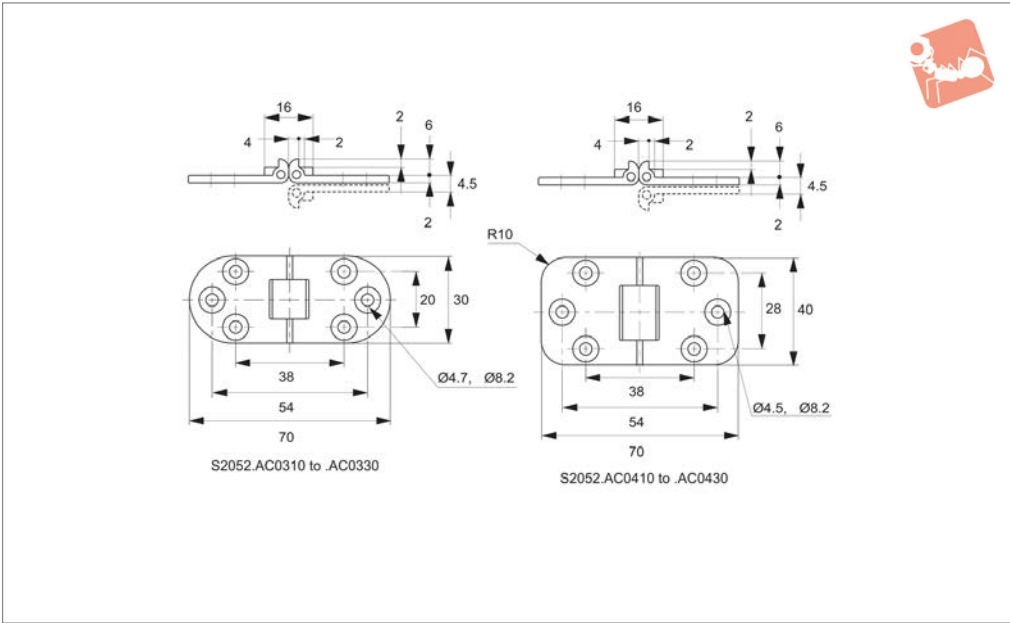
Ideal for use in hi-fi cabinets, writing desks etc.

Order No.	Door thickness max.	Hinge dia.	Weight g
S2050.AC0038	16-20mm	38	79





S2052



Material

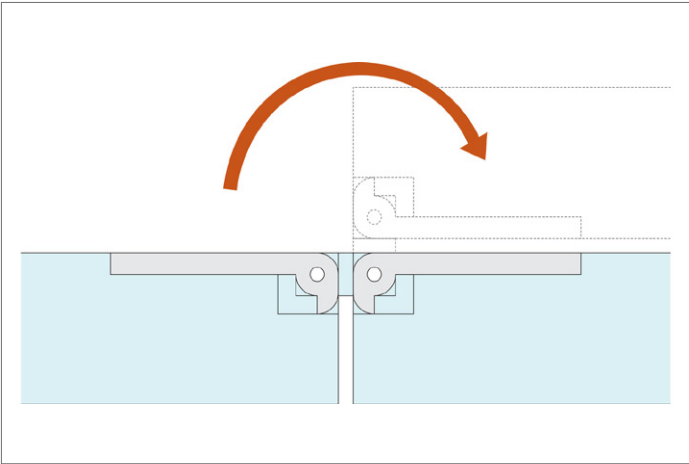
Brass, finished either as polished brass, satin nickel or chrome plating.

Technical Notes

Max. door size: 450w x 700h x 21mm thick.
Provides 180° opening to table tops and

flat surfaces.

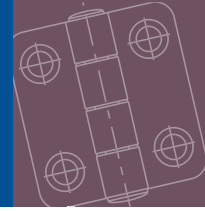
Order No.	Finish	Size	Weight capacity per pair kg max.	Weight g
S2052.AC0310	Satin Nickel	30	4.0	45
S2052.AC0320	Chrome	30	4.0	45
S2052.AC0330	Brass	30	4.0	45
S2052.AC0410	Satin Nickel	40	4.0	64
S2052.AC0420	Chrome	40	4.0	64
S2052.AC0430	Brass	40	4.0	64



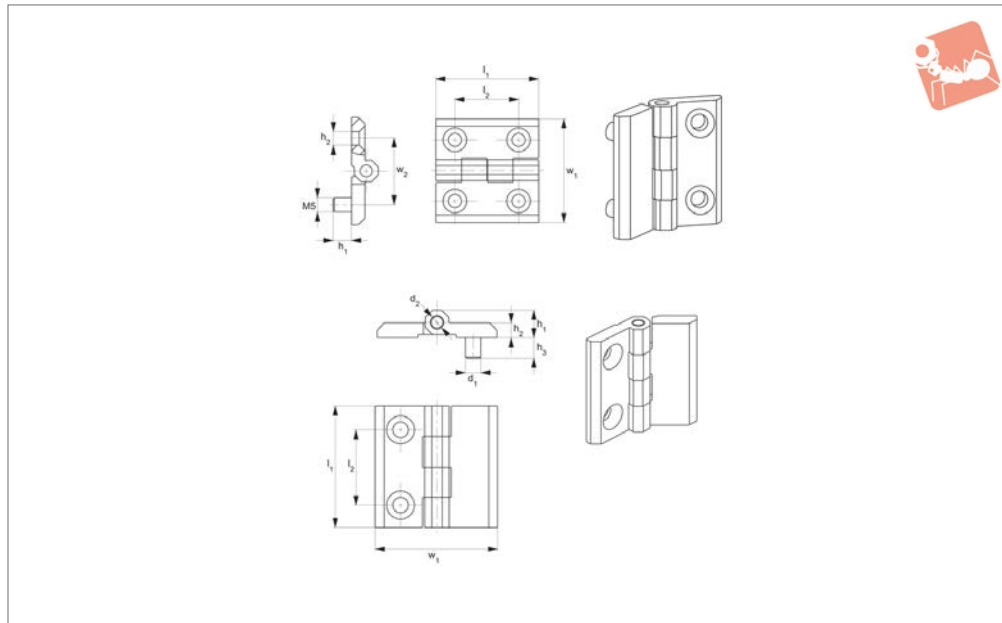


Surface Mount - Leaf Hinges

rear front mount



Hinges



S1102

HINGES

Material

Die Cast Zinc, Black Powder Coated Pin:
steel, nickel plated.
Die Cast Zinc, Chrome Finish Pin: steel,

nickel plated.

Technical Notes

For plain/flush mounted doors, as well as
electrical panels and covers.

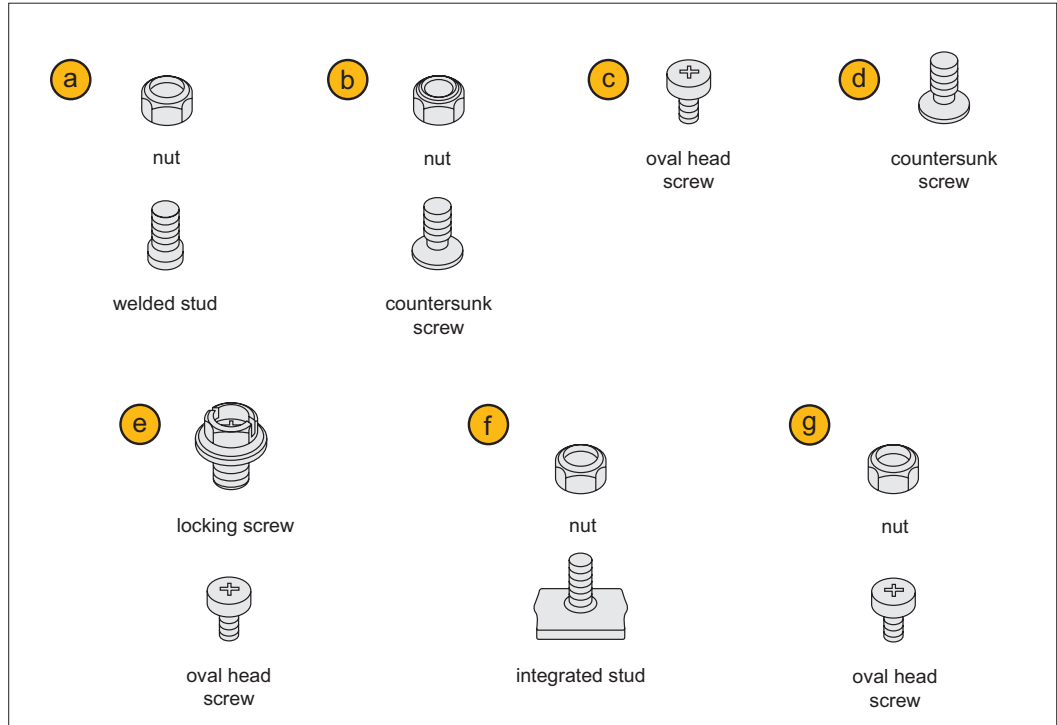
Order No.	Type	Size	h_1	h_2	h_3	l_1	l_2	w_1	w_2	d_1	d_2	90° Angled stress	Axial stress kN	Radial stress kN
S1102.AW0040	Black Coated	40x40	9.0	5	10.0	40	25	40	25	M 5	4	2.0	1.45	2.1
S1102.AW0050	Black Coated	50x50	11.5	6	12.5	50	30	50	30	M 6	6	2.45	2.1	3.5
S1102.AW0140	Chrome	40x40	9.0	5	10.0	40	25	40	25	M 5	4	-	-	-
S1102.AW0150	Chrome	50x50	11.5	6	12.5	50	30	50	30	M 6	6	-	-	-



A variety of mounting methods are available!

Mounting combinations

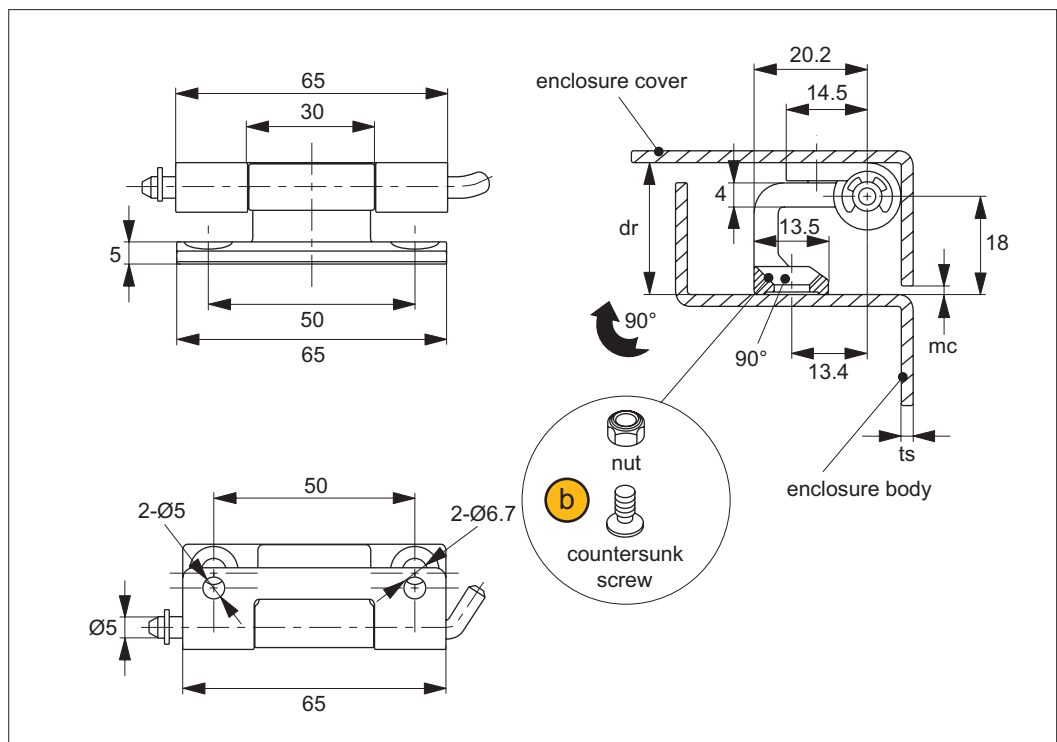
Wixroyd concealed hinges can be mounted in a variety of ways using additional nuts and bolts.

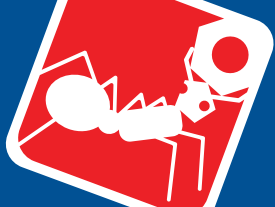


Important Note: Refer to individual product pages for suitable mounting options. If you have any problems please contact our Technical Sales Team.

Mounting example

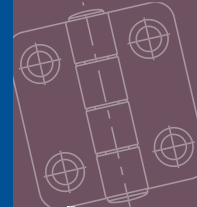
In the example, mounting option ②, a nut with a countersunk screw, is used to mount the hinge onto the enclosure body.



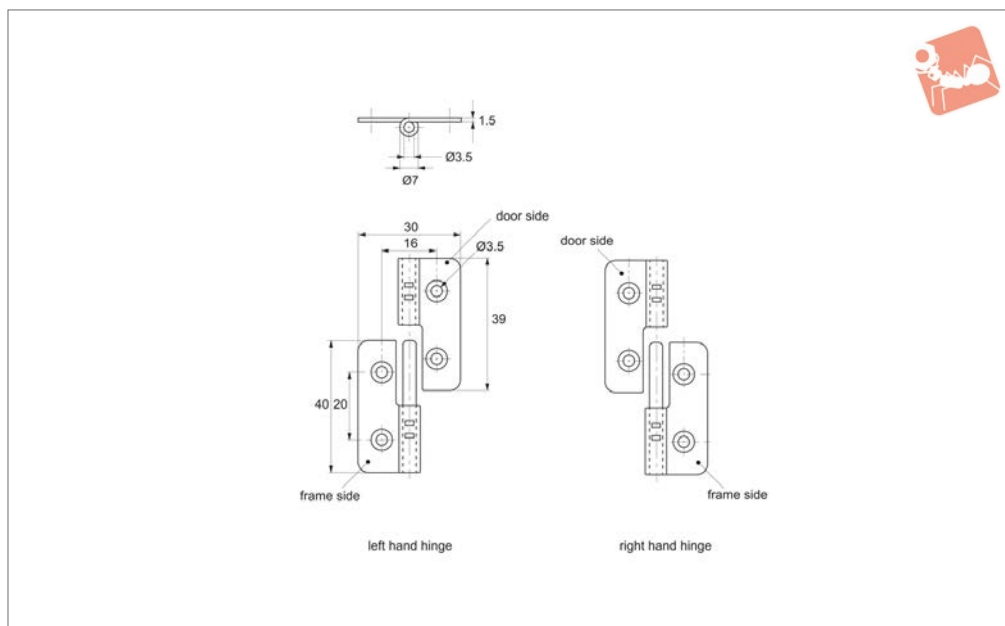


Lift-Off Hinges - Off-Set

screw mount - stainless steel



Hinges



S2300

HINGES

Material

Stainless steel, AISI 304, polished finish.

Important Notes

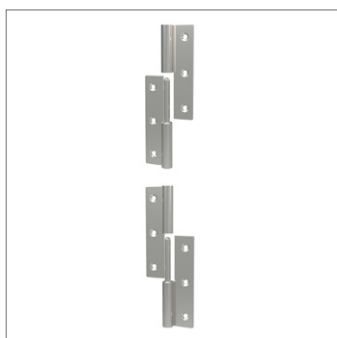
Product stamped with an „L“ does not

mean it is a left hand hinge - it fixes to the right hand part of the frame.

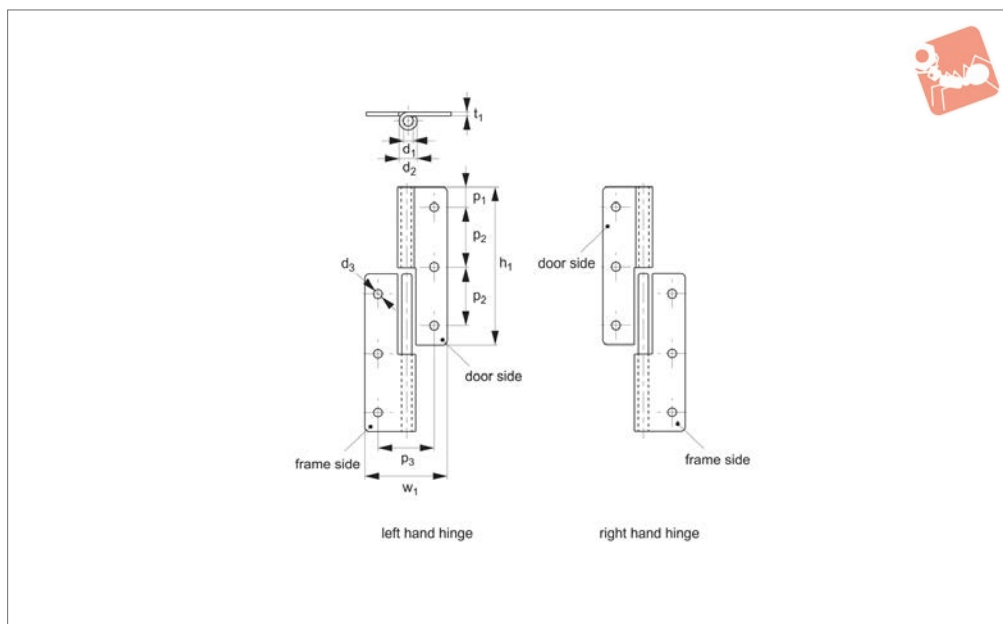
Product stamped with an „R“ does not mean it is a right hand hinge - it fixes to

the left hand side of the frame.

Order No.	t	Type	Weight g
S2300.AC0010	1.5	Right	21
S2300.AC0110	1.5	Left	21



S2320



Material

Stainless steel, AISI 304, polished finish.

Technical Notes

Opening angle 180°.

Important Notes

Product stamped with an „L“ does not mean it is a left hand hinge - it fixes to the

right hand part of the frame.

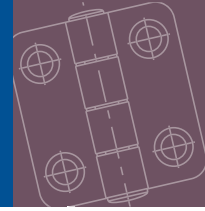
Product stamped with an „R“ does not mean it is a right hand hinge - it fixes to the left hand side of the frame.

Order No.	t	Type	h	w	p ₁	p ₂	p ₃	Ø d ₁	Ø d ₂	Ø d ₃	Weight g
S2320.AC0050	1.5	Right	50	32	5.0	20	21	7.5	4	3.2	32
S2320.AC0064	1.5	Right	64	36	8.0	24	24	7.5	4	3.2	44
S2320.AC0075	2.0	Right	75	38	7.5	30	24	8.5	4	3.2	64
S2320.AC0150	1.5	Left	50	32	5.0	20	21	7.5	4	3.2	32
S2320.AC0164	1.5	Left	64	36	8.0	24	24	7.5	4	3.2	44
S2320.AC0175	2.0	Left	75	38	7.5	30	24	8.5	4	3.2	64

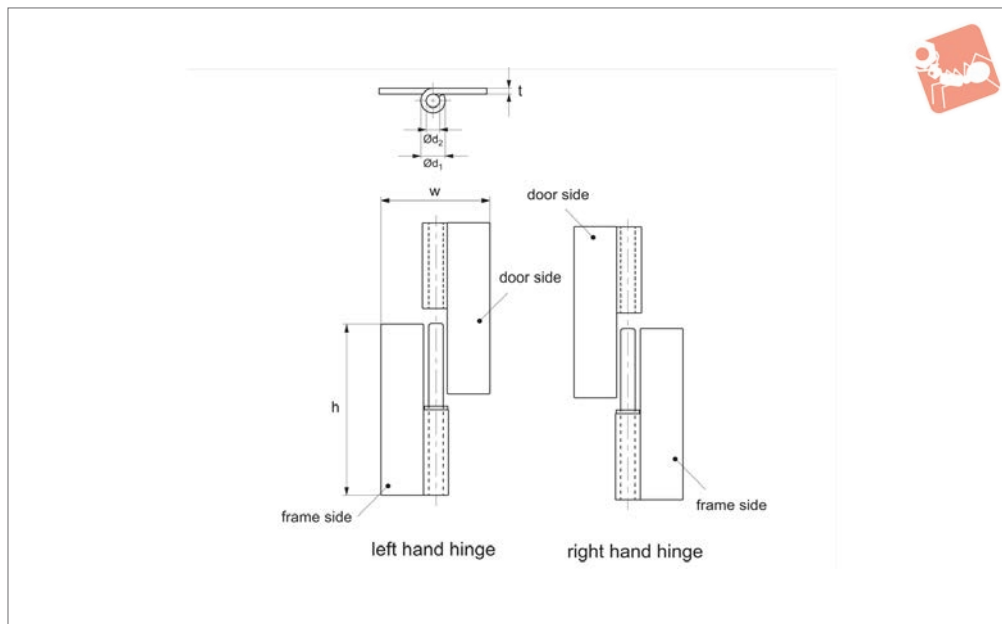


Lift-Off Hinges - Off-Set

weld-on - stainless steel



Hinges



S2340

HINGES

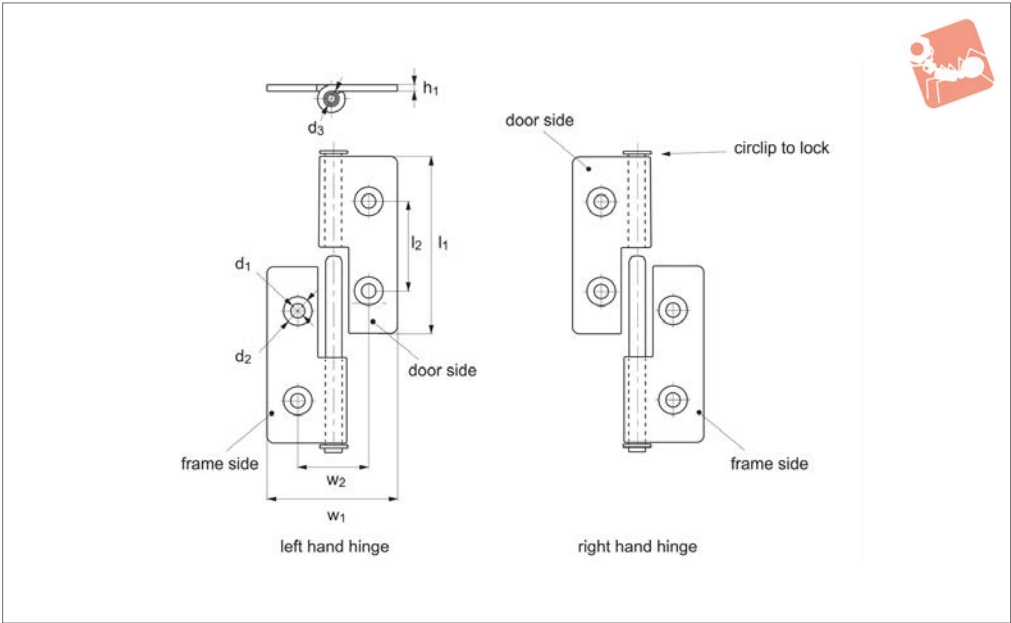
Material

Stainless steel, AISI 304, polished finish.

Order No.	t	Type	h	w	d ₁	d ₂	Weight g
S2340.AC0010	4	Right	100	82	16	8	335
S2340.AC0110	4	Left	100	82	16	8	335



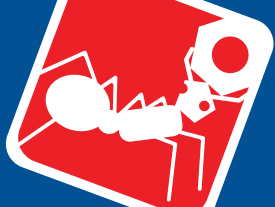
S2314



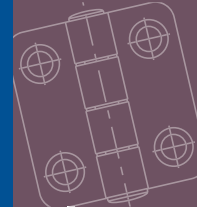
Material
Body: stainless steel 304.

Technical Notes
Opening angle 180°.

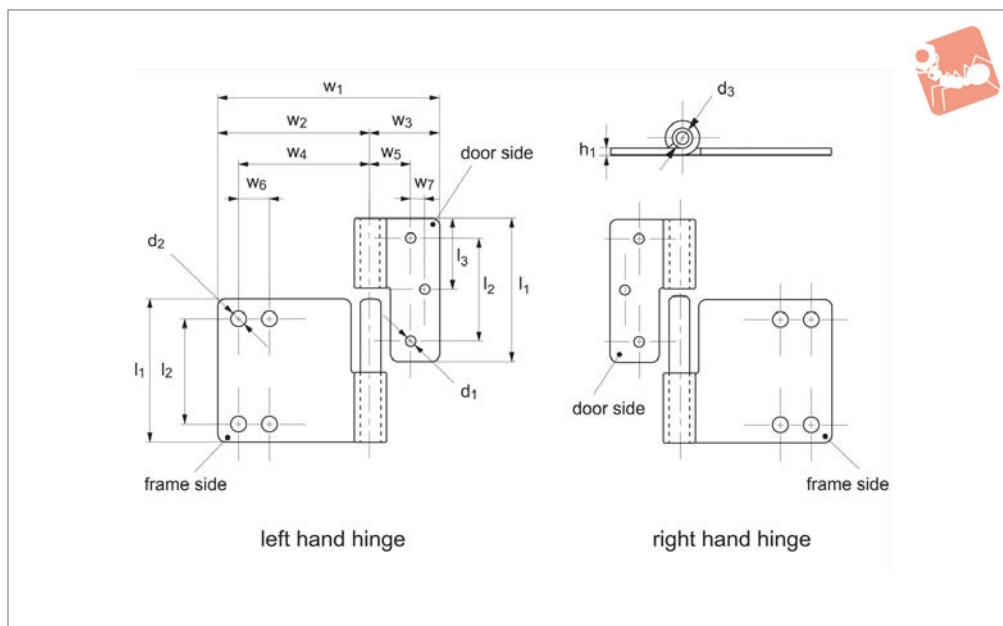
Order No.	Type	l_1	w_1	d_1	d_2	d_3	h_1	l_2	w_2	F_x N	F_y N
S2314.AW0010	Left	40	30	3.1	6.1	3.5	1.5	20	16	305	470
S2314.AW0020	Right	40	30	3.1	6.1	3.5	1.5	20	16	305	470



Lift-Off Hinges - Off set screw mount - stainless steel



Hinges



S2316

HINGES

Material

Body: stainless steel.

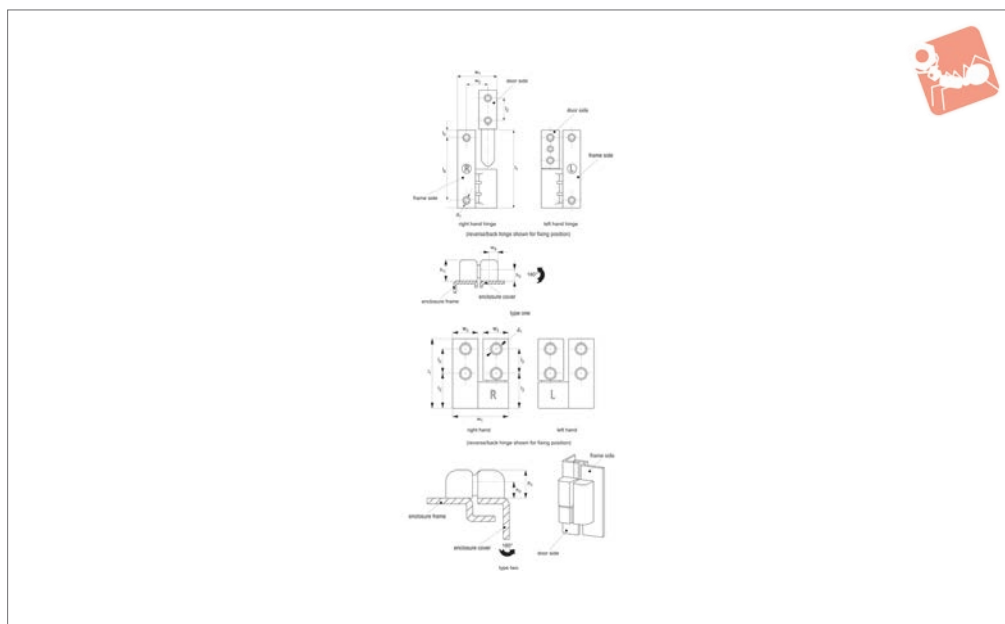
Technical Notes

Opening angle 180°.

Order No.	Type	l_1	w_1	d_1	d_2	d_3	h_1	l_2	l_3	w_2	w_3	w_4	w_5	w_6	w_7	F_x N	F_y N
S2316.AW0010	Left Hand	72	110	4.2	8.1	10	3	52	36	75	35	65	20	15	7.5	1280	630
S2316.AW0020	Right Hand	72	110	4.2	8.1	10	3	52	36	75	35	65	20	15	7.5	1280	630



S2404



Material

Type one: Body: die cast zinc, black powder coated.

Bushing: polyamide.

Type two: Body: die cast zinc, black powder

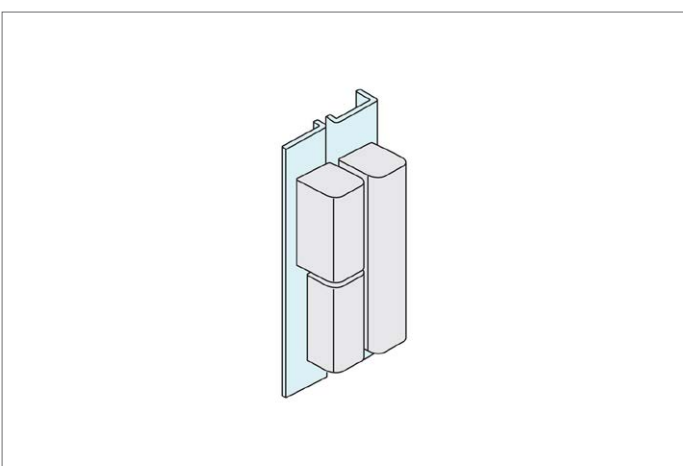
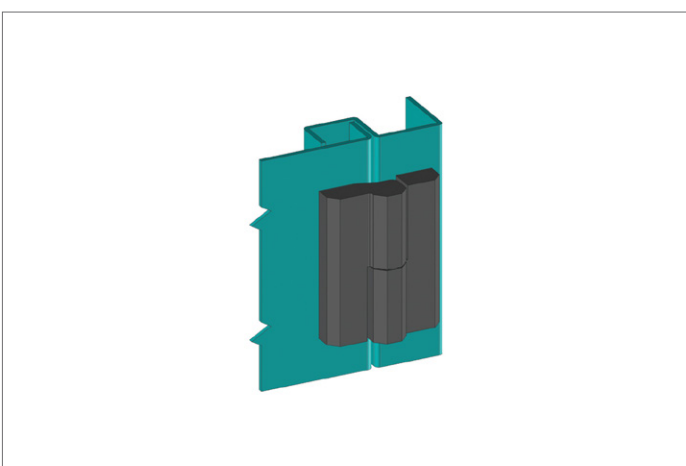
coated.

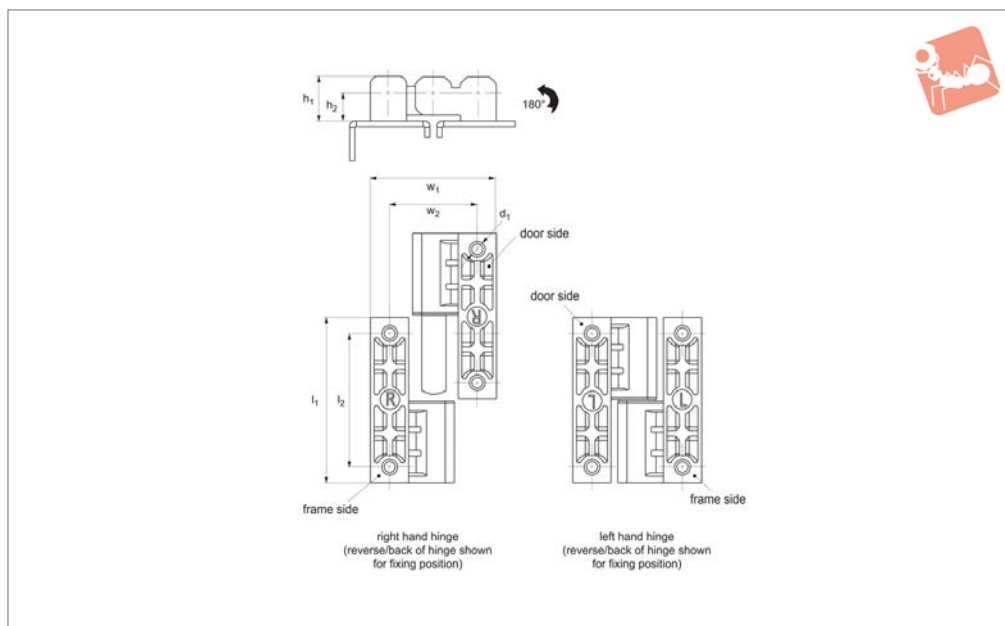
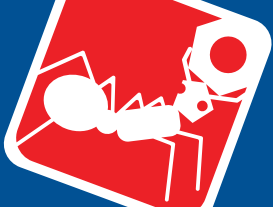
Natural unfinished available on request, subject to minimum order quantity.

Technical Notes

Lift off hinge for plain/flush mounted doors. Concealed mounting screws prevent external access to the hinge. Opening angle 180°.

Order No.	Type	Hand	l_1	w_1	d_1	h_1	h_2	l_2	l_3	l_4	l_5	w_2	w_3	F_x N
S2404.AW0025	One	Right	64.0	32.5	M 5	17.5	10.0	19	-	51	6.5	17.5	-	490
S2404.AW0125	One	Left	64.0	32.5	M 5	17.5	10.0	19	-	51	6.5	17.5	-	490
S2404.AW0064	Two	Right	25.5	20.5	M 4	10.0	5.5	9	13	-	-	-	9.4	270
S2404.AW0164	Two	Left	25.5	20.5	M 4	10.0	5.5	9	13	-	-	-	9.4	270





S2406

HINGES

Material

Hinge: die cast zinc.
Bushing: polyamide.

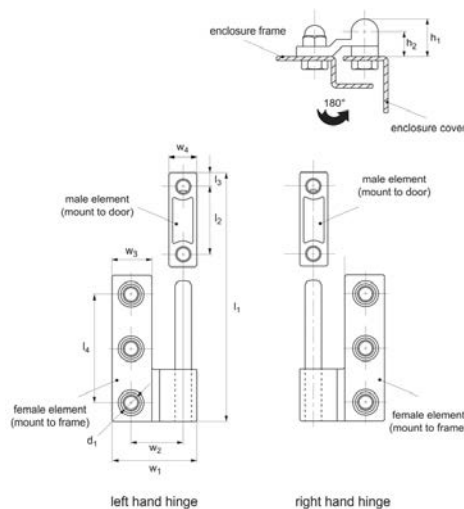
Technical Notes

Opening angle 180°.

Order No.	Type	l_1	w_1	d_1	h_1	h_2	l_2	w_2	F_x N	F_y N
S2406.AW0064	Right	64	50	M5	17.5	10	51	35	3300	880
S2406.AW0164	Left	64	50	M5	17.5	10	51	35	3300	880



S2408



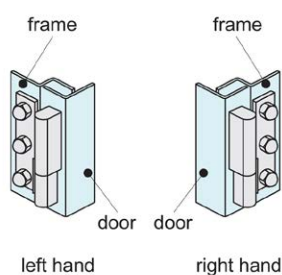
Material

Body: die cast zinc, black powder coated.
Pin: steel, nickel plated.

Technical Notes

Opening angle 180°.

Order No.	Type	l_1	w_1	d_1	h_1	h_2	l_2	l_3	l_4	w_2	w_3	w_4
S2408.AW0062	Right	62	36	M6	16	10	29	5.5	46	22	16	12
S2408.AW0162	Left	62	36	M6	16	10	29	5.5	46	22	16	12

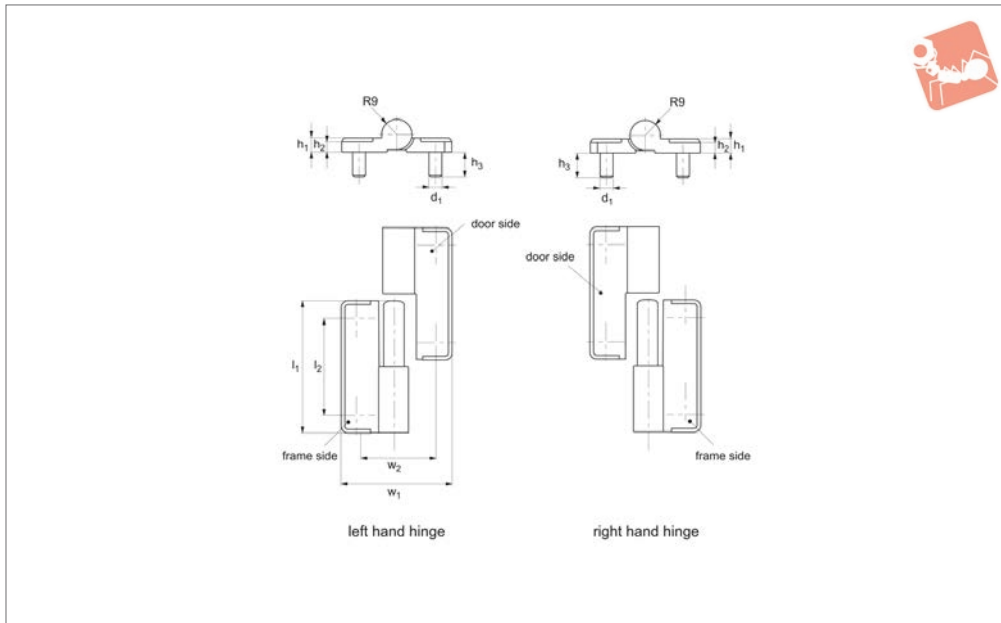




Lift-Off Hinges - In Line

bolt on - zinc

Hinges



S2420

HINGES

Material

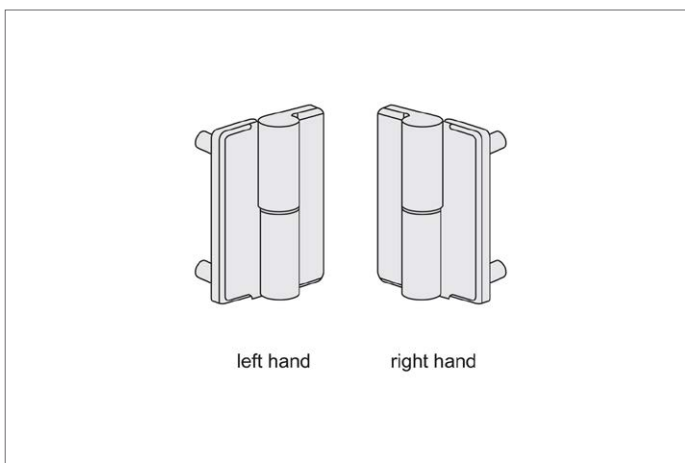
Hinge: die cast zinc, black powder coated.
Screw: stainless steel.

Technical Notes

Using a left and a right handed hinge the door will not be removable, where as using

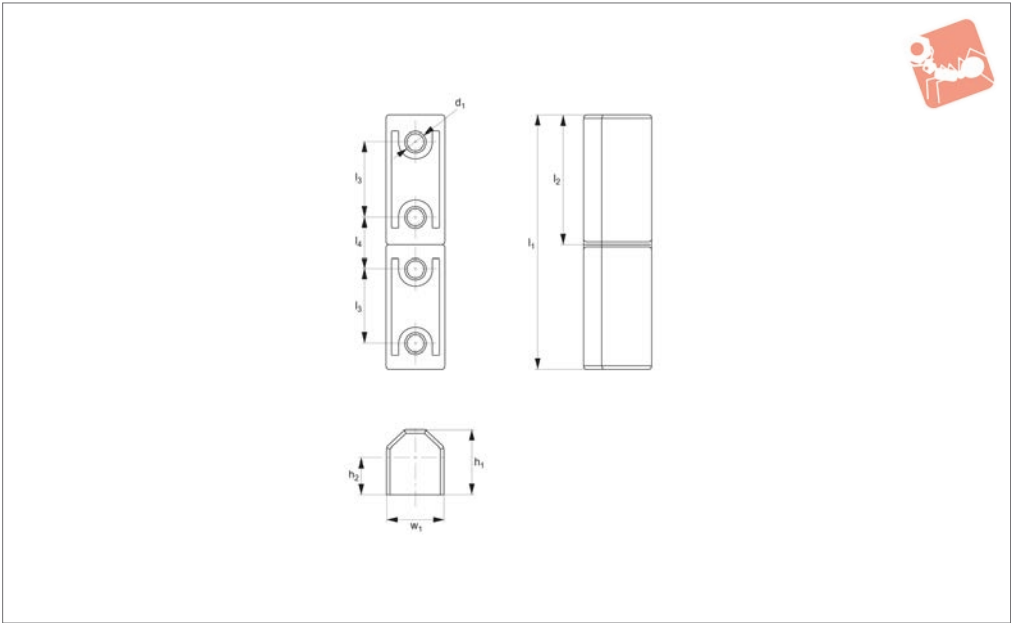
two hinges of the same type the door will be removable. Opening angle 180°.

Order No.	Type	l_1	w_1	d_1	h_1	h_2	h_3	l_2	w_2	F_x N	F_y N
S2420.AW0010	Left	80	64	M 8	10	8	14	60	45	1500	1800
S2420.AW0110	Right	80	64	M 8	10	8	14	60	45	1500	1800





S2500



Material
Body: die cast zinc, chrome plated or black powder coated.
Bushing: polyamide.

Technical Notes
Universal left or right hand opening doors.
For external mounting on cabinets, surface mounted doors, sheet metal doors etc.

Mounting via concealed 4xM 5 screws.
Opening angle 180°.

Order No.	Finish	l_1	w_1	d_1	h_1	h_2	l_2	l_3	l_4	F_x N	F_y N
S2500.AW0010	Chrome	64	15	M 5	17	10	32	19	13	600	1500
S2500.AW0020	Black Coated	64	15	M 5	17	10	32	19	13	600	1500

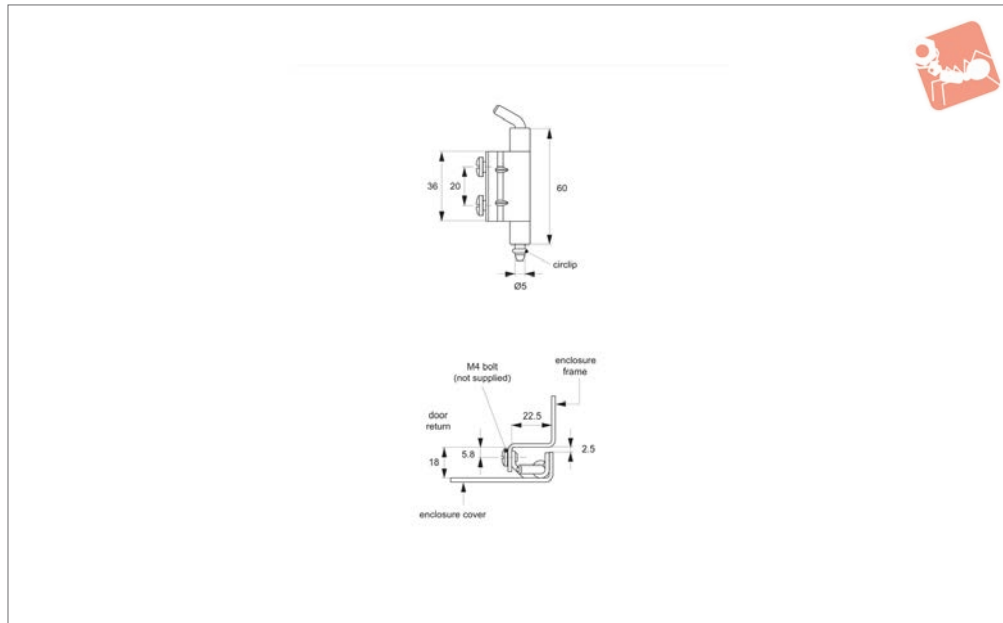


Concealed Pivot Hinges - Lift Off

20 mm door return - weld or stud - steel



Hinges



S2104

HINGES

Material

Steel and stainless steel (304 and 316).

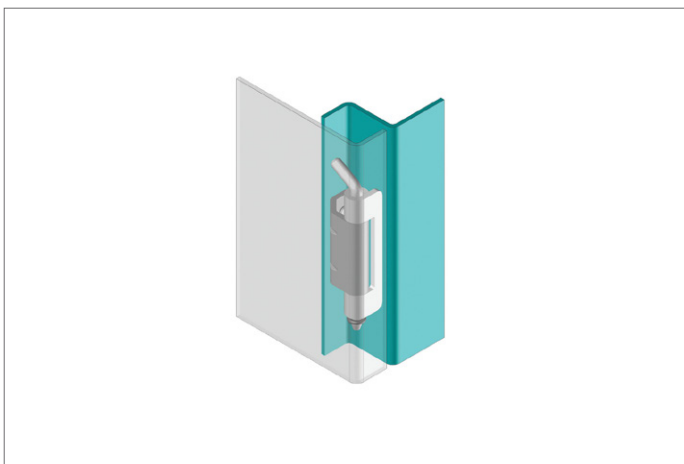
Technical Notes

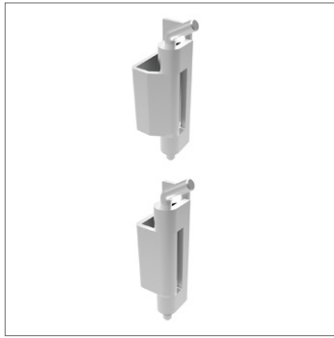
Suited to sheet metal and machine enclos-

ures with door return. Main body mounted via two M 4 screws. Hinge plate either welded or screwed to enclosure body. Removable hinge pin enables easy installa-

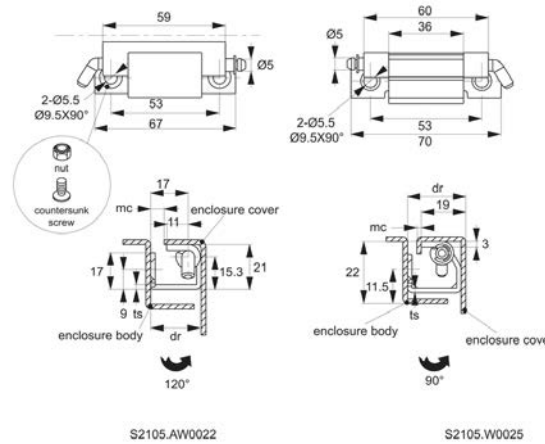
tion and is held in place via circlip. Max. opening angle 120°.

Order No.	Material	Door return	Size	F_x N	F_y N
S2104.AW0020	Steel	20	60 x 22,5 x 20	280	250
S2104.AW0120	304 Stainless	20	60 x 22,5 x 20	-	-
S2104.AW0220	316 Stainless	20	60 x 22,5 x 20	-	-





S2105



Material

Body & hinge: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with 22-25mm door return. Main body

mounted via two M5 screws. Hinge plate either welded or screwed to enclosure body.

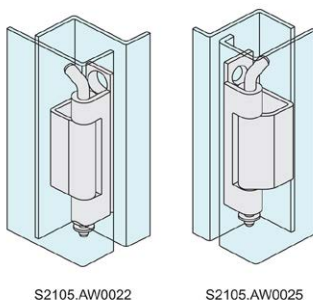
Removable hinge pin enables easy installation and is held in place via circlip. Max. opening angle 120° or 90°.

Important Notes

dr= Maximum door return suitable for use with hinge.

mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

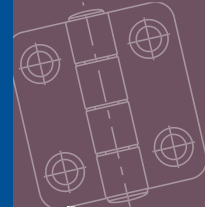
Order No.	Door return	Size	F_x N	F_y N	mc min.	ts thickness
S2105.AW0022	25	59 x 21 x 22	120	310	4.5	2.5
S2105.AW0025	22	60 x 22 x 25	120	310	4.0	2.5



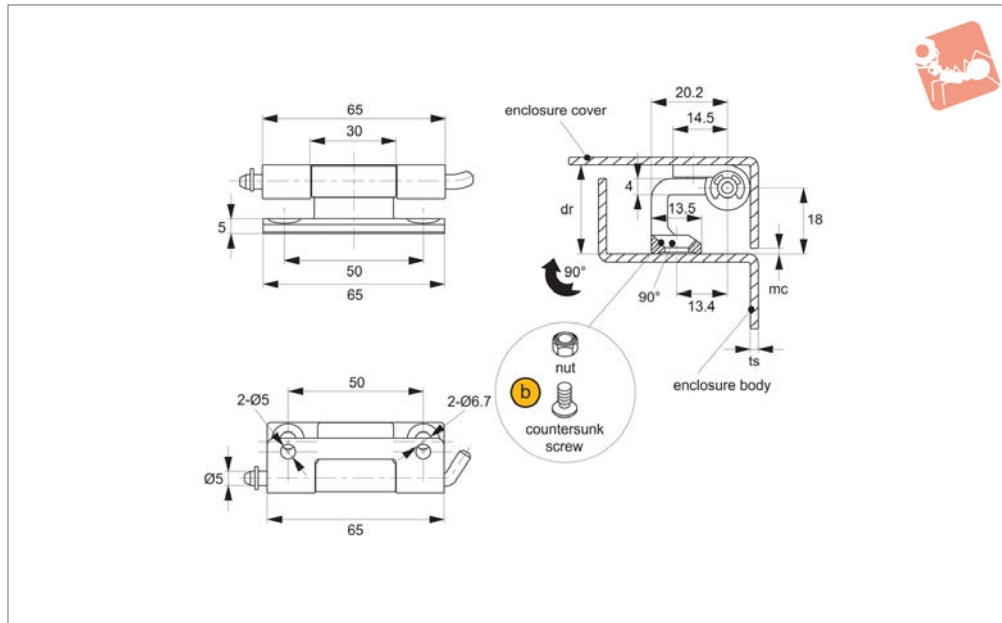


Concealed Pivot Hinges - Lift Off

23mm door return - weld and countersunk screw



Hinges



S2115

HINGES

Material

Hinge & pin: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with 23mm door return. When the gap between the door and frame is 2mm, opening angle is 90°.

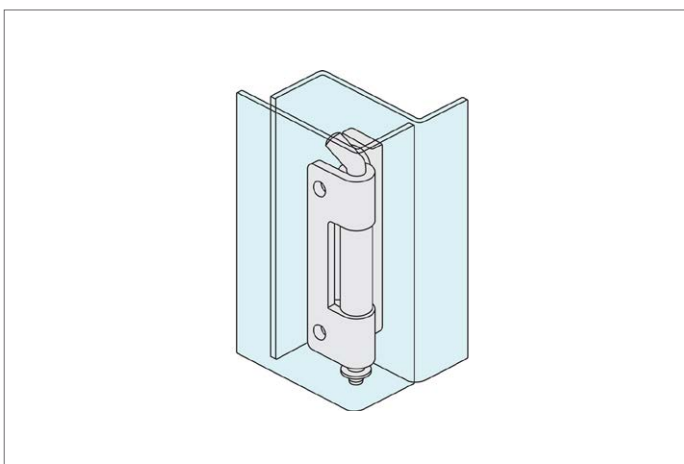
Main body mounted via M6 screws, hinge plate either welded or screwed to enclosure with M5 screws. Removable hinge pin enables easy installation and is held in place via circlip. Opening angle 180°.

Important Notes

dr= Maximum door return suitable for use with hinge.

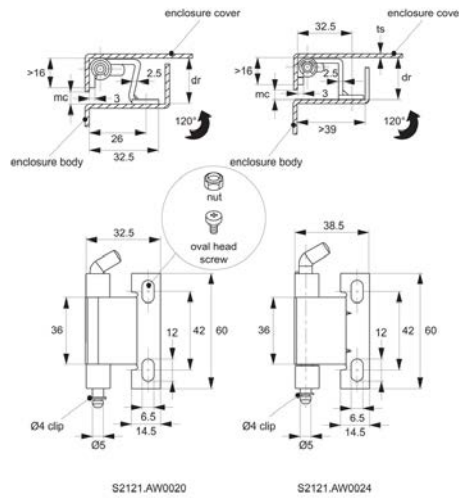
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F_x N	F_y N	mc min.	ts panel thickness
S2115.AW0024	23.8	65 x 23 x 20,2	900	700	2	2





S2121



Material

Hinge & pin: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with door return of 20-24mm. Main body mounted via two M6 screws, hinge

plate welded to frame.

Removable hinge pin enables easy installation, and is held in place via circlip. Max. opening angle 120°.

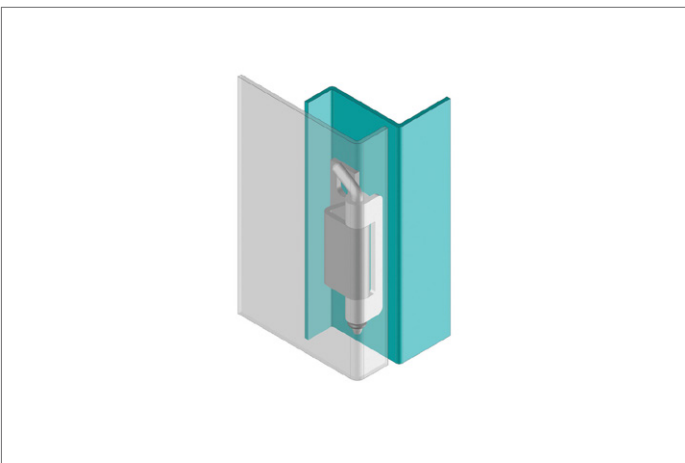
Important Notes

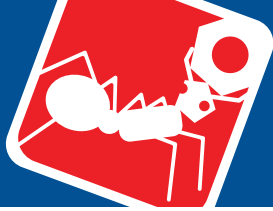
dr= Maximum door return suitable for use

with hinge.

mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F_x N	F_y N	mc min.	ts panel thickness
S2121.AW0020	20.0	60,0 x 32,5 x 20,0	350	778	3	2.0
S2121.AW0024	24.5	60,0 x 38,5 x 24,5	350	778	3	2.0



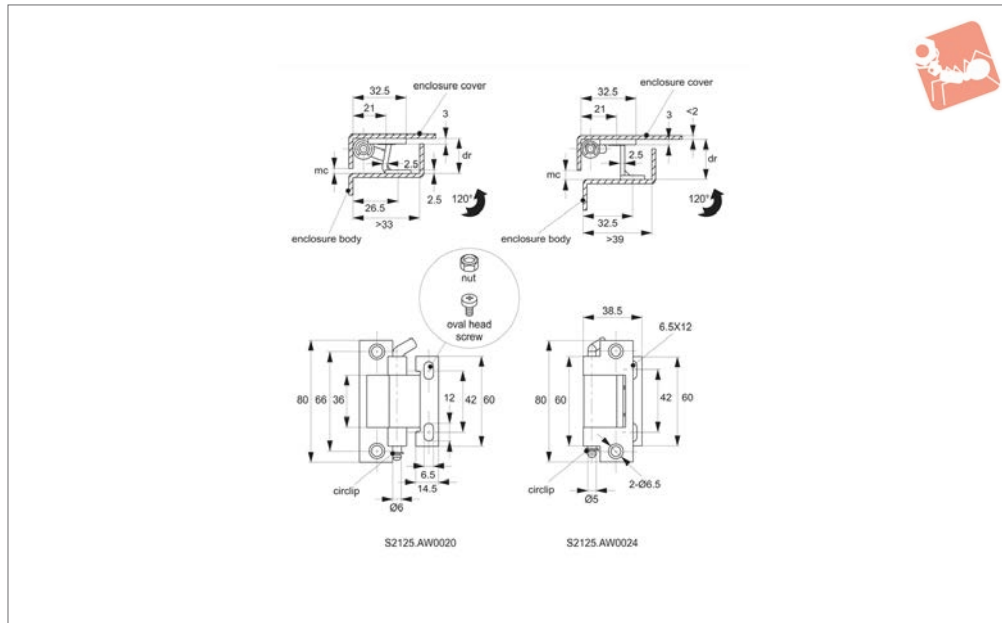


Concealed Pivot Hinges - Lift Off

20 & 24mm door return - weld and oval head screw



Hinges



S2125

HINGES

Material

Hinge & pin: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with 20-24mm door return. Main body mounted via two M6 screws, hinge plate

welded to frame.

Removable hinge pin enables easy installation, and is held in place via circlip. Max. opening angle 120°.

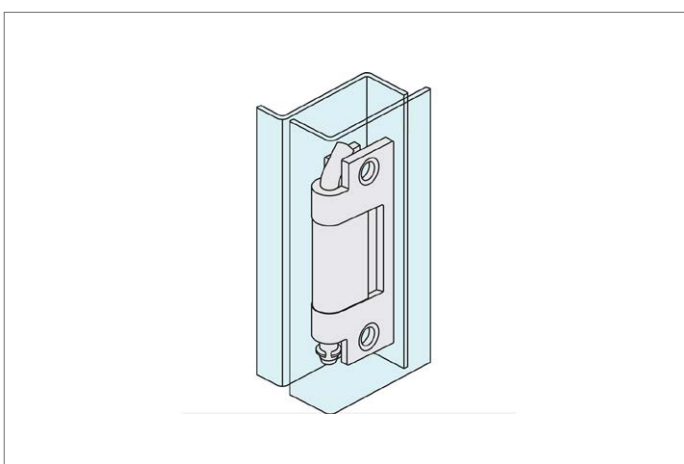
Important Notes

dr= Maximum door return suitable for use

with hinge.

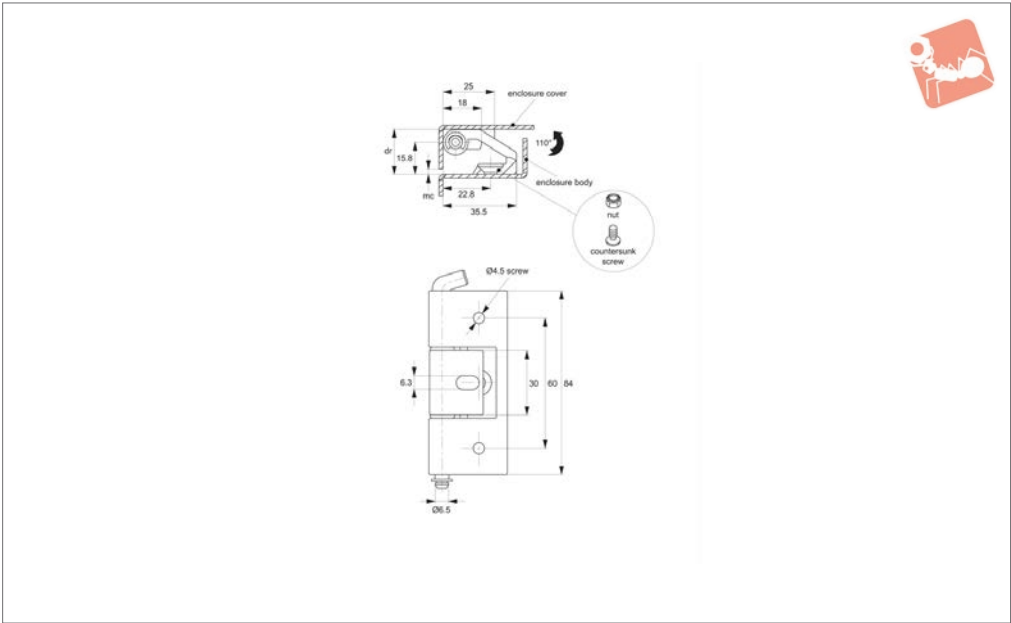
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F _x N	F _y N	mc min.	ts panel thickness
S2125.AW0020	20.0	60,0 x 33,0 x 20,0	310	480	3.0	2.0
S2125.AW0024	24.5	60,0 x 39,0 x 24,5	310	480	2.5	2.0





S2153



Material

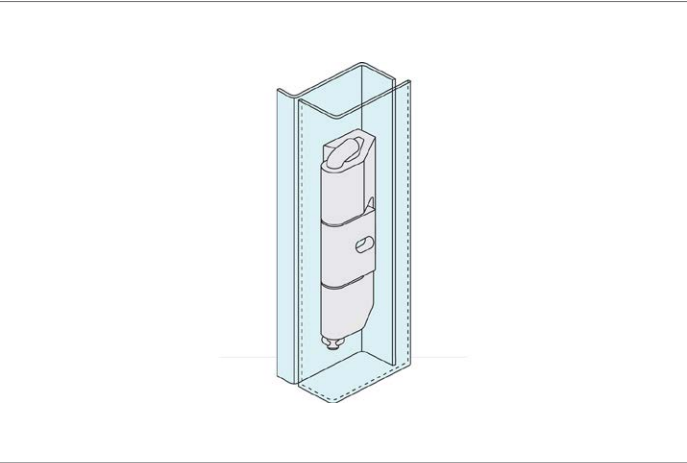
Hinge: die cast zinc.
Pin: steel.
Gasket: polyamide.

Technical Notes

Suited to sheet metal and machine enclos-

ures with a 22mm door return. Main body mounted via two M4 screws, hinge plate welded to frame.
Removable hinge pin enables easy installation, and is held in place via circlip.
Max. opening angle 110°.

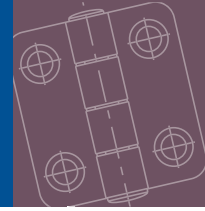
Order No.	Door return	Size	F _x N	F _y N	mc min.	ts panel thickness
S2153.AW0022	22	60 x 33,5 x 22	720	830	3	2



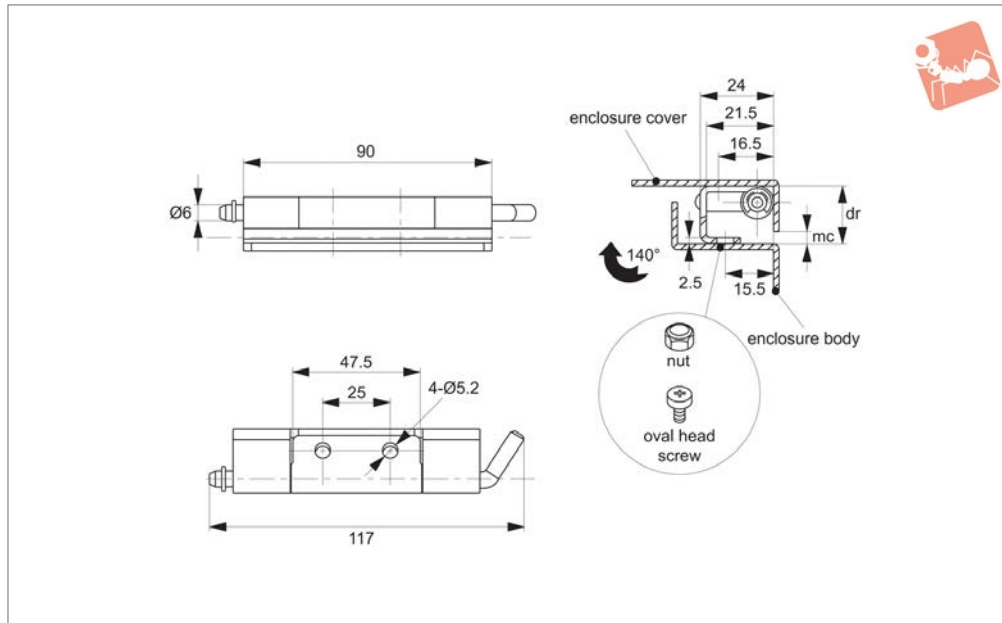


Concealed Pivot Hinges - Lift Off

19mm door return - weld and oval head screw -



Hinges



S2155

HINGES

Material

Hinge & pin: stainless steel.

Technical Notes

Opening angle 140°.

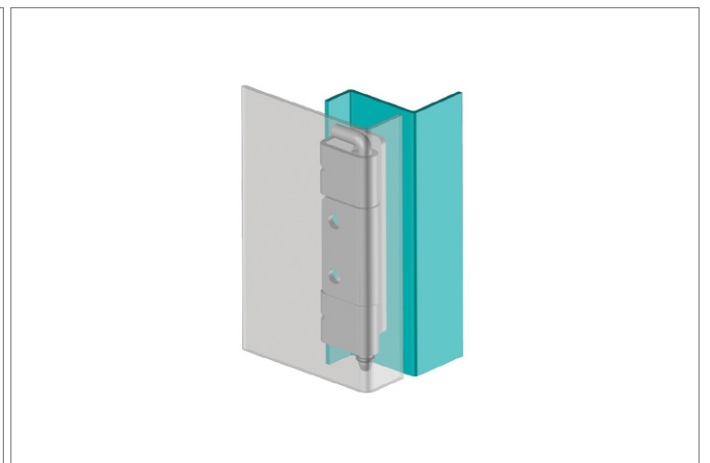
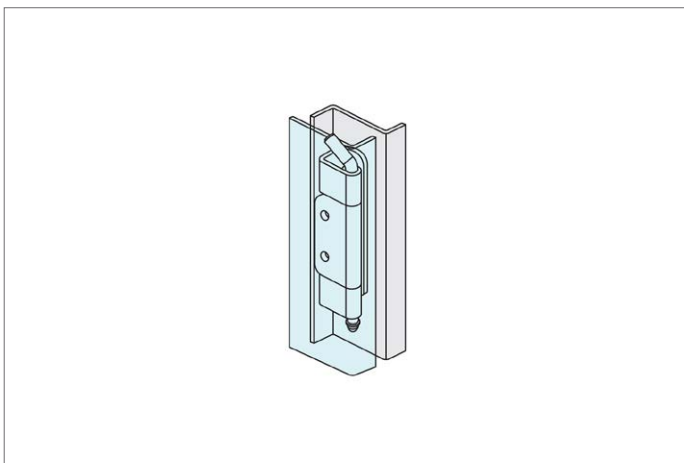
Important Notes

Suited to sheet metal and machine enclosures with a 19mm door return. Main body mounted via two M5 screws, hinge plate

welded to frame.

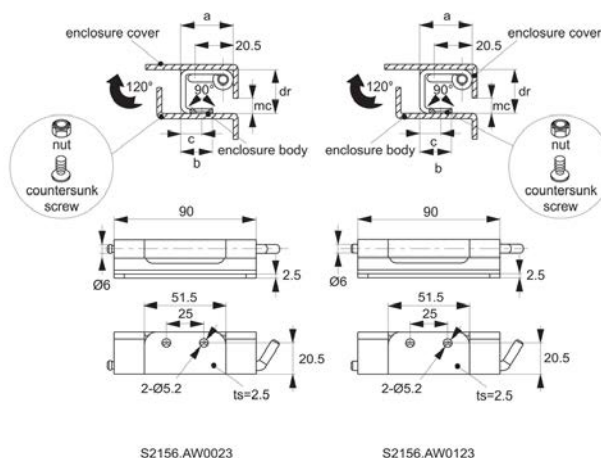
Removable hinge pin enables easy installation, and is held in place by split clip.

Order No.	Door return	Size	F_x N	F_y N	mc min.	ts panel thickness
S2155.AW0019	19	117 x 24 x 19	500	980	5	2.0





S2156



Material

Hinge & shaft: stainless steel. AISI 304.

Technical Notes

Opening angle 120°. Suited to sheet metal and machine enclosures with a 23mm door return. Main body mounted via two M5

screws, hinge plate welded to frame (copper plated for improved welding). Removable hinge pin enables easy installation, and is held in place by clip.

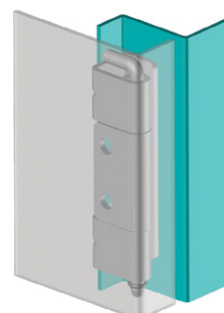
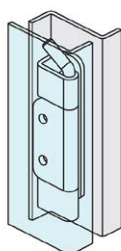
Important Notes

dr= Maximum door return suitable for use

with hinge.

mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

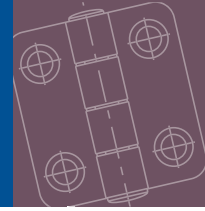
Order No.	Door return	Size	a	b	c	F _x N	F _y N	mc min.	ts panel thickness
S2156.AW0023	23	90 x 27,5 x 23	27.5	16.5	11.0	500	980	5	2.5
S2156.AW0123	23	90 x 33,5 x 23	33.5	22.0	14.5	500	980	5	2.5



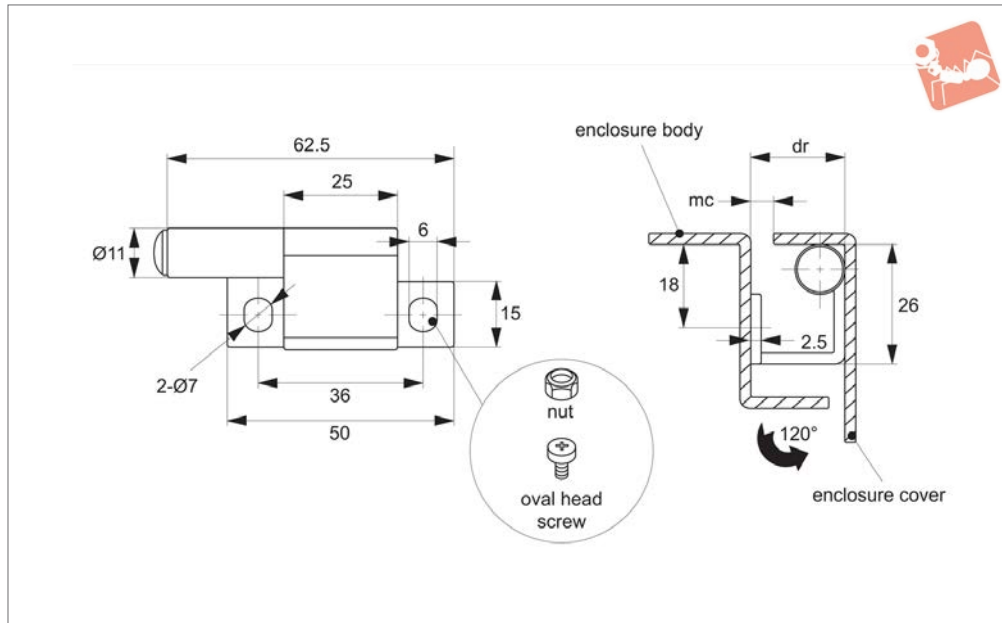


Concealed Pivot Hinges - Lift Off

21mm door return - weld and oval head screw - steel



Hinges



S2170

HINGES

Material

Hinge: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with a 21mm door return. Main body

mounted via two M7 screws, hinge plate welded to frame.

Opening angle: 120°.

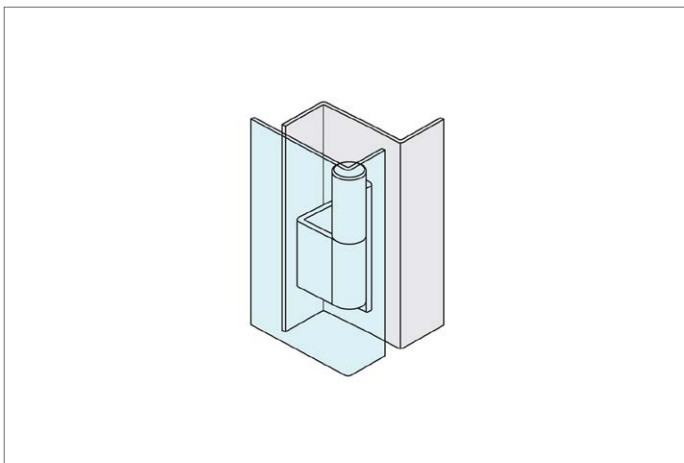
Important Notes

dr= Maximum door return suitable for use

with hinge.

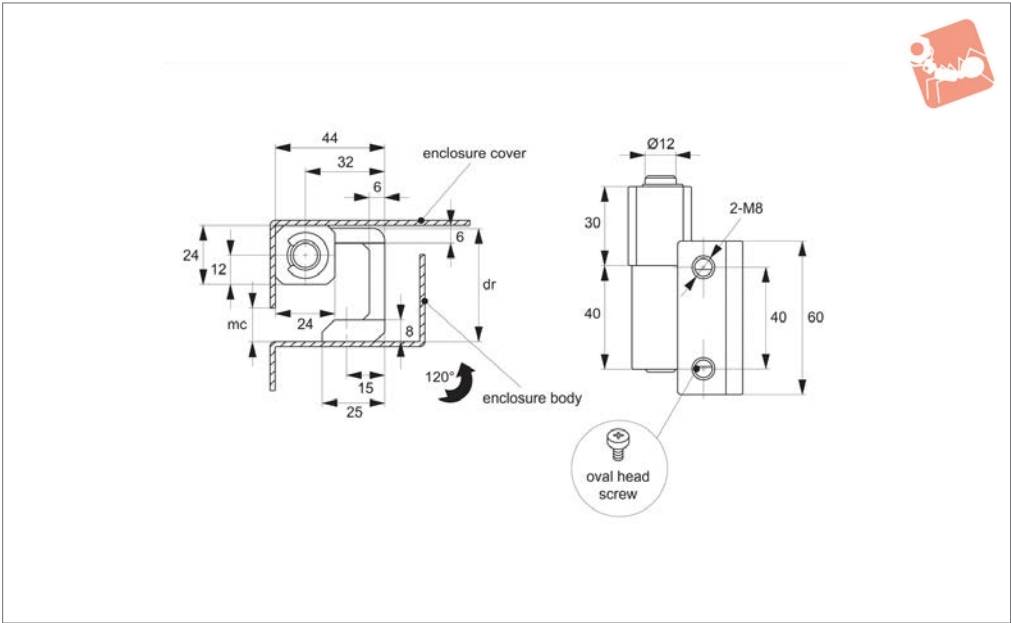
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F _x N	F _y N	mc min.	ts panel thickness
S2170.AW0021	21	50 x 26 x 21	200	160	4	2.5





S2172



Material
Hinge: stainless steel, white zinc plated.

Technical Notes
Suited to sheet metal and machine enclosures with a 45mm door return. Main body mounted via two M8 screws, hinge plate welded to frame. Opening angle: 120°.

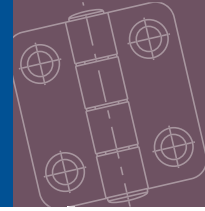
Important Notes
dr= Maximum door return suitable for use with hinge.
mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F _x N	F _y N	mc min.	ts panel thickness
S2172.AW0046	45	60 x 44 x 45,5	2000	1500	10	2.5

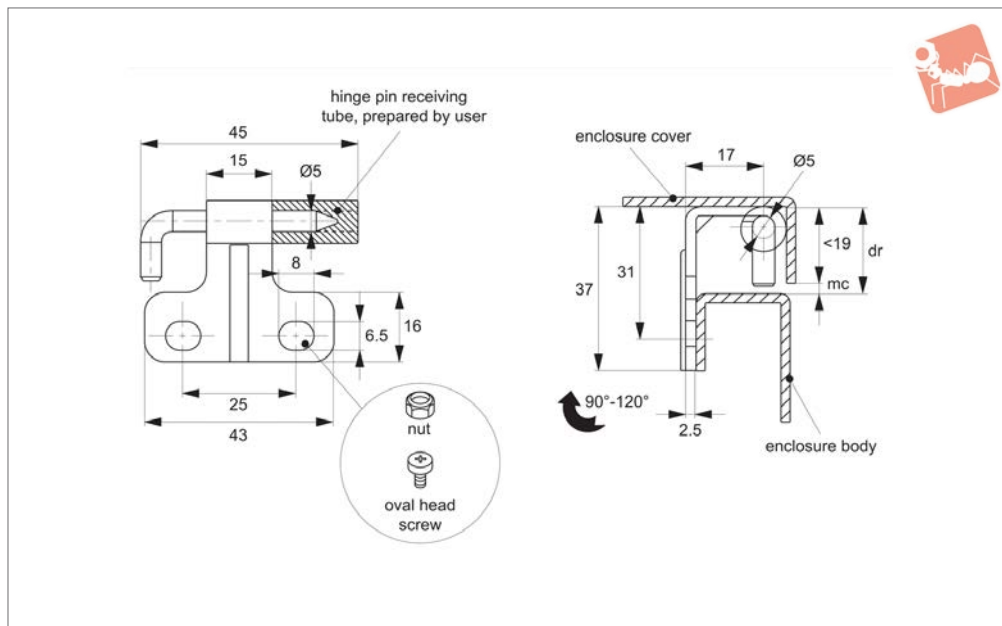


Concealed Pivot Hinges - Lift Off

21mm door return - weld and oval head screw - steel



Hinges



S2176

HINGES

Material

Hinge: steel, black powder coated.
Pin: steel, white zinc plated.

Technical Notes

Suited to sheet metal and machine enclosures with a 21mm door return. Main body mounted via two M6 screws, hinge plate

welded to frame (copper plated for improved welding).
Opening angle: 120°.

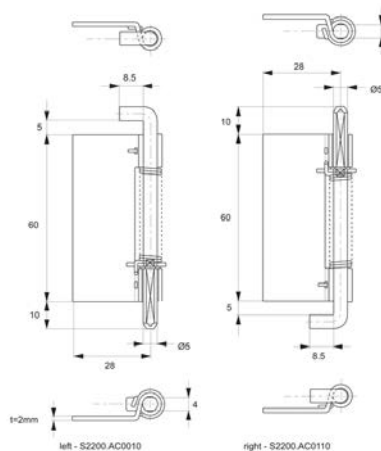
Important Notes

Female hinge installation requires user to prepare a welded tube to receive pin: min. dia. 5mm.

dr= Maximum door return suitable for use with hinge.

mc= Minimum clearance advised between enclosure cover and body to ensure smooth, full opening of enclosure cover.

Order No.	Door return	Size	F_x N	F_y N	mc min.	ts panel thickness
S2176.AW0021	21	43 x 19,5 x 21	360	105	2	2



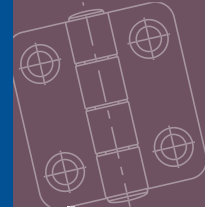
Spring loaded for self-closing.

Max. opening angle 100°.

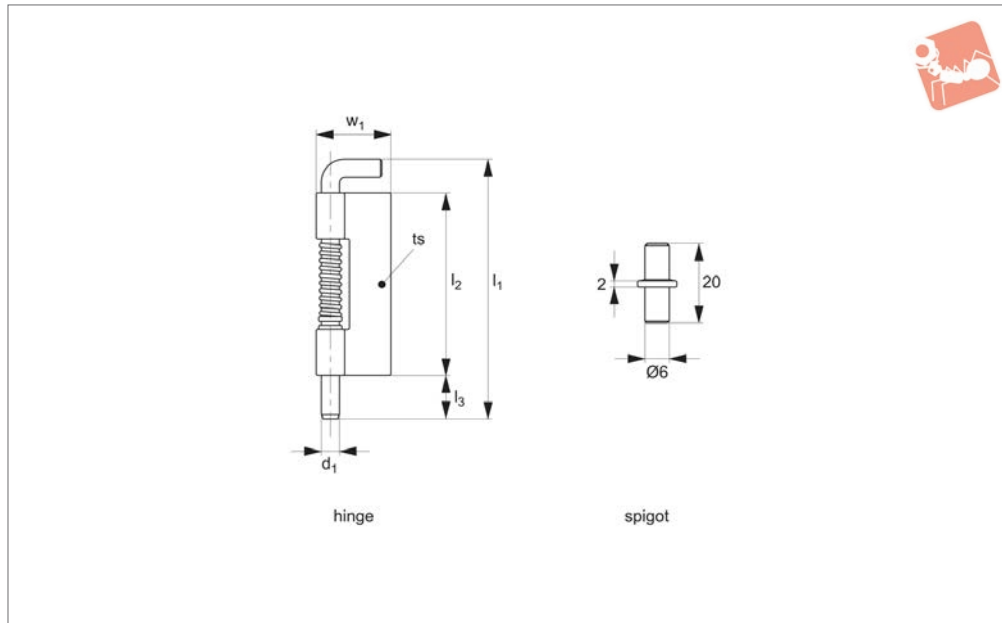


End Mount Concealed Pivot Hinge

spring loaded - weld-on - steel



Hinges



S2202

HINGES

Material

Body: steel, white zinc plated.

Technical Notes

For sheet metal doors, cabinets and machinery covers. Spring body can be either welded, or screw mounted.
Pull back pin lever, hinge pin is retracted.
Release pin lever and hinge pin springs

back.

Max. opening angle 110°.

Tips

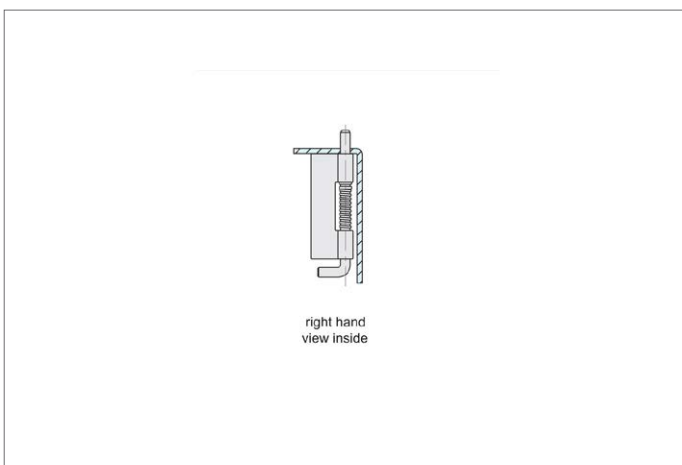
Spring loaded feature of hinge enables easy assembly and disassembly of panel/door, ideal for maintenance covers.
Typical assembly utilises spring loaded hinge at top of door and corresponding

hinge spigot at foot of door.

Important Notes

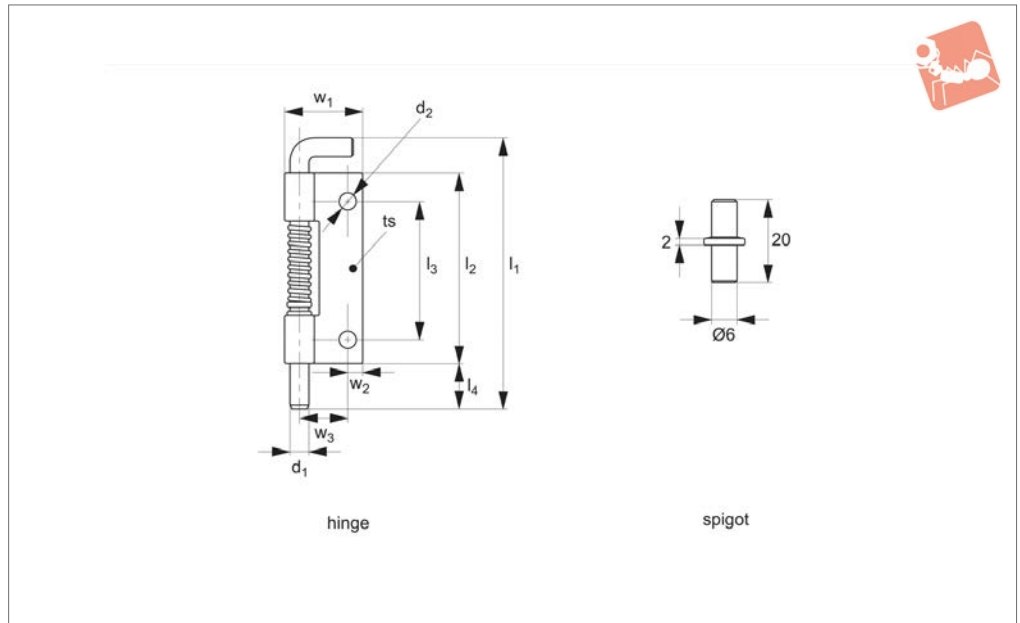
Accessory (optional) this accessory is used as an alternative to the hinge with pin, usually fitted at the bottom of the door as load-bearing fixing door.

Order No.	Type	l_1	w_1	d_1	F_x N	F_y N	l_2	l_3	ts
S2202.AW0063	Left	89	26.4	6	150	200	62.5	15	2
S2202.AW0163	Right	89	26.4	6	150	200	62.5	15	2





S2205



Material

Body: steel, zinc plated.

Technical Notes

For sheet metal doors, cabinets and machinery covers. Spring body can be either welded, or screw mounted.

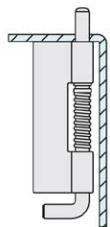
Pull back pin lever, hinge pin is retracted. Release pin lever and hinge pin springs back. Max. opening angle 110° .

Tips

Spring loaded feature of hinge enables

easy assembly and disassembly of panel/door, ideal for maintenance covers. Typical assembly utilises spring loaded hinge at top of door and corresponding hinge spigot at foot of door.

Order No.	Hand	l_1	w_1	d_1	d_2	F_x N	F_y N	l_2	l_3	l_4	w_2	w_3	ts
S2205.AW0032	Left	52	16.5	4	3.2	150	200	32.0	19	10	5	8.5	2
S2205.AW0132	Right	52	16.5	4	3.2	100	130	32.0	19	10	5	8.5	2
S2205.AW0063	Left	89	26.5	6	5.5	150	200	62.5	45	15	6	15.2	2
S2205.AW0163	Right	89	26.5	6	5.5	150	200	62.5	45	15	6	15.2	2

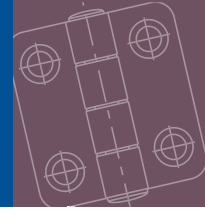


right hand
view inside

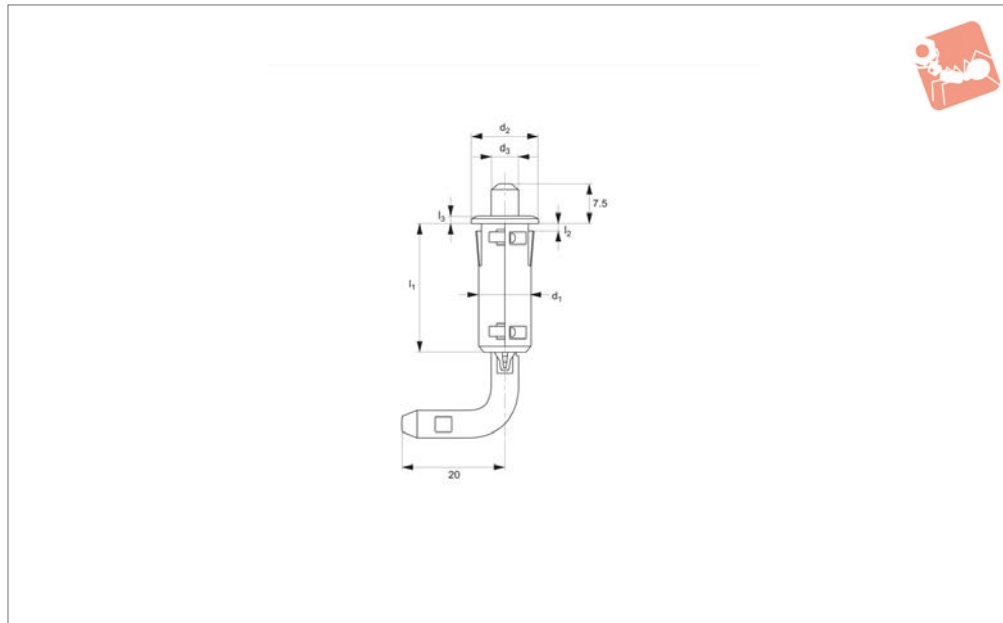


End Mount Concealed Pivot Hinge

spring loaded - snap fit - polyamide



Hinges



S2212

HINGES

Material

Body: polyamide, black PA 6 GRF30.
Pin: stainless steel.
Latch: die cast zinc, white zinc plated.

nery covers. Clip fix for easy assembly.
Pull back pin lever, hinge pin is retracted.
Release pin lever and hinge pin springs
back. Opening angle 180°.

easy assembly and disassembly of panel/
door, ideal for maintenance covers.
Max. opening angle 110°.

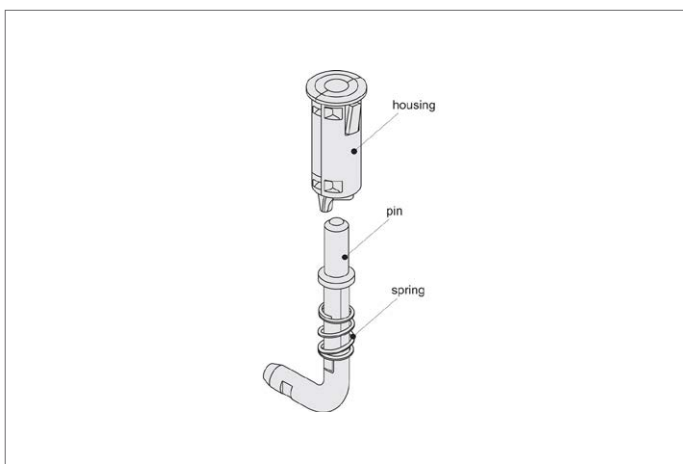
Technical Notes

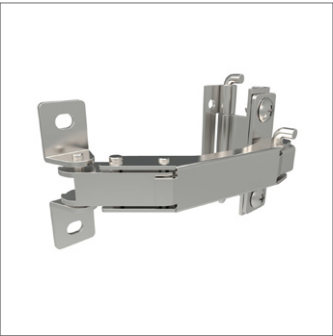
For sheet metal doors, cabinets and machi-

Tips

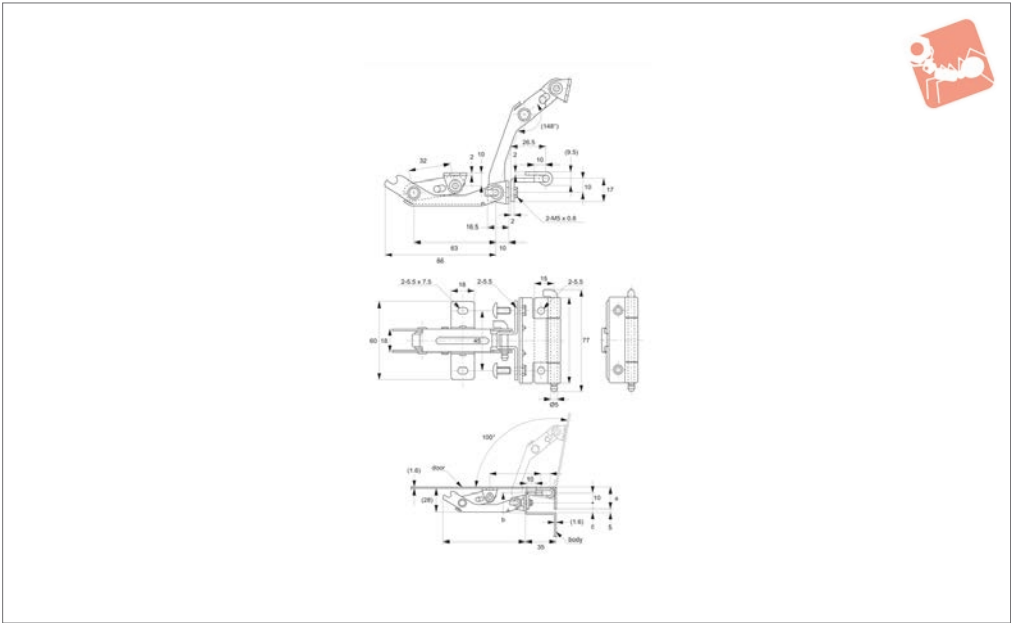
Spring loaded feature of hinge enables

Order No.	l_1	d_1	d_2	d_3	l_2	l_3
S2212.AW0005	24.5	10	13	5	7.5	1.5



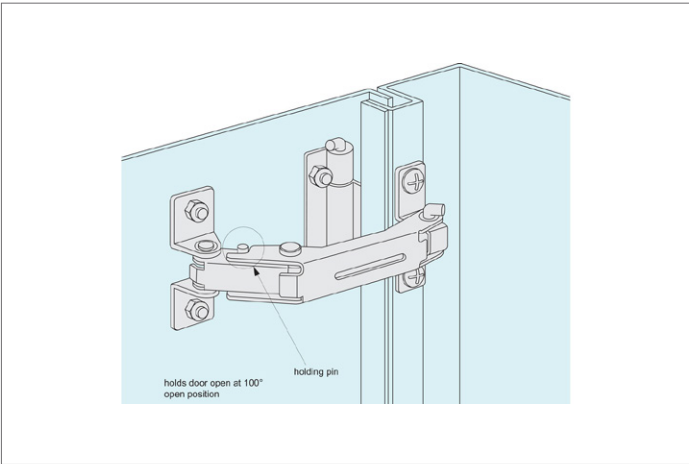


S2250



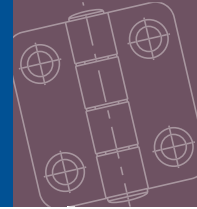
Material Stainless steel, AISI 304.	removal of machine/equipment covers for maintenance.	machine cover and body to be fully sealed to prohibit tampering or interference.
Technical Notes Combined hinge and stay easily installed/ removed via installation pin. Ideal for	Tips Particularly suited to gaming industry. Nature of hinges movement enables	Important Notes Suitable for doors up to 10Kg (as pair). Holding force: 30kgf/cm each.

Order No.	Type	Weight g
S2250.AC0010	Stainless Steel	190



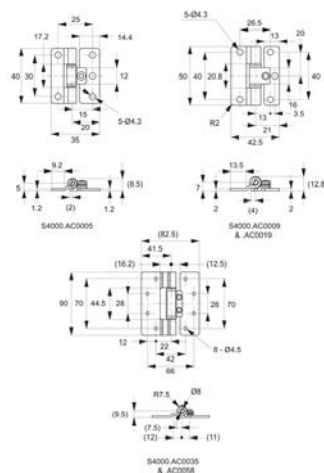


Hinges



S2260

HINGES



Body: stainless steel, AISI 304, polished.
Shaft: Stainless steel, AISI 303, polished.

Friction torque hinge designed for holding lid/door in position. Stainless steel

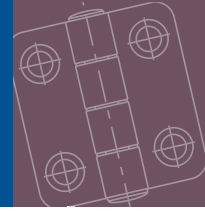
construction for corrosive environments.
Operating temperature: -20°C to +60°C.

A schematic diagram of a mechanical assembly. A central circular component, possibly a pulley or a motor, is mounted on a base. A large curved arrow indicates a counter-clockwise rotation of this component. Two dashed lines represent the movement of a part, showing it moving from a vertical position to a horizontal position. The base consists of several stacked rectangular blocks and a horizontal support structure.

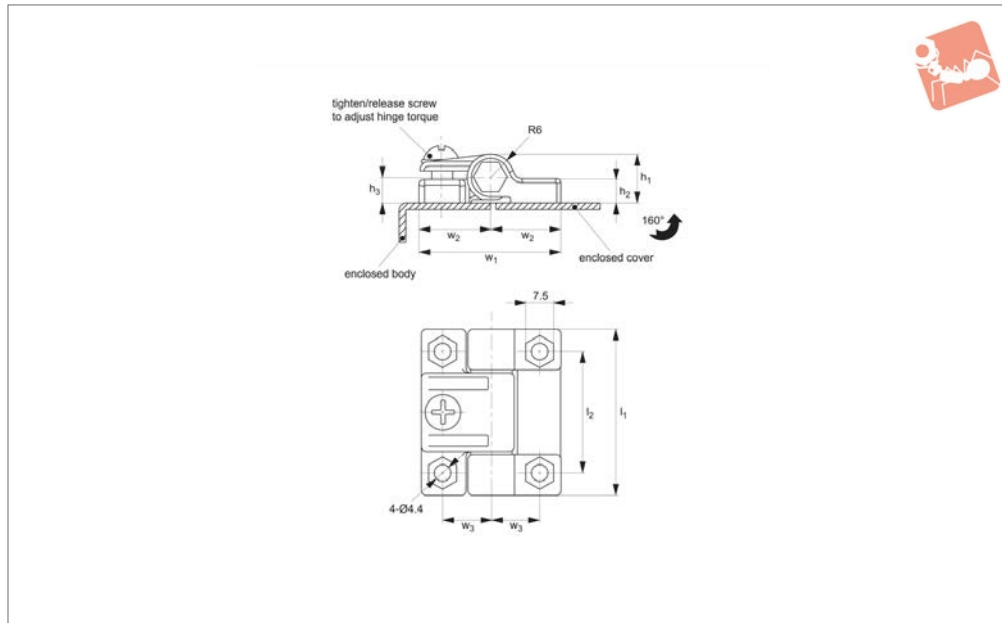


Adjustable Torque - Friction Hinge

polyamide - screw mount - plastic



Hinges



S4002

HINGES

Material

Body: polyamide, black finish.
Shaft: PC.

Supplied with: Fixing nuts and bolts.

Technical Notes

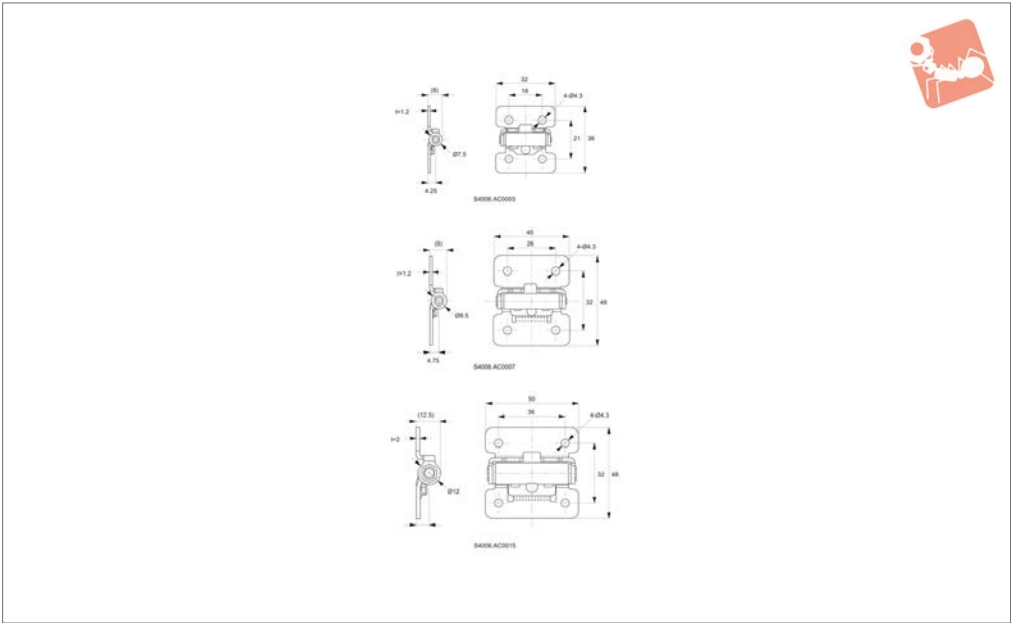
Opening angle 160°. Hinge torque adjusted by screw. Provides position control. Suitable for left hand and right

hand application.

Order No.	Torque kgf/cm max. ±1	h ₁	h ₂	h ₃	l ₁	l ₂	w ₁	w ₂	w ₃
S4002.AW0043	8	12.5	6	6.5	43	13.5	36	18	12.5



S4006



Material

Body: stainless steel, AISI 304. Fixing tube: polyacetal.

Technical Notes

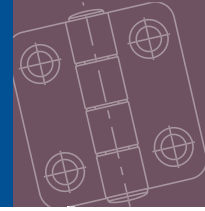
Friction torque hinge holds lids/covers over free stop angle between 0 - 180°.

Order No.	Torque/pair kgf/cm +40% -20%	Free stop angle
S4006.AC0003	3.5	0 - 180°
S4006.AC0007	7.0	0 - 180°
S4006.AC0015	15.0	0 - 180°

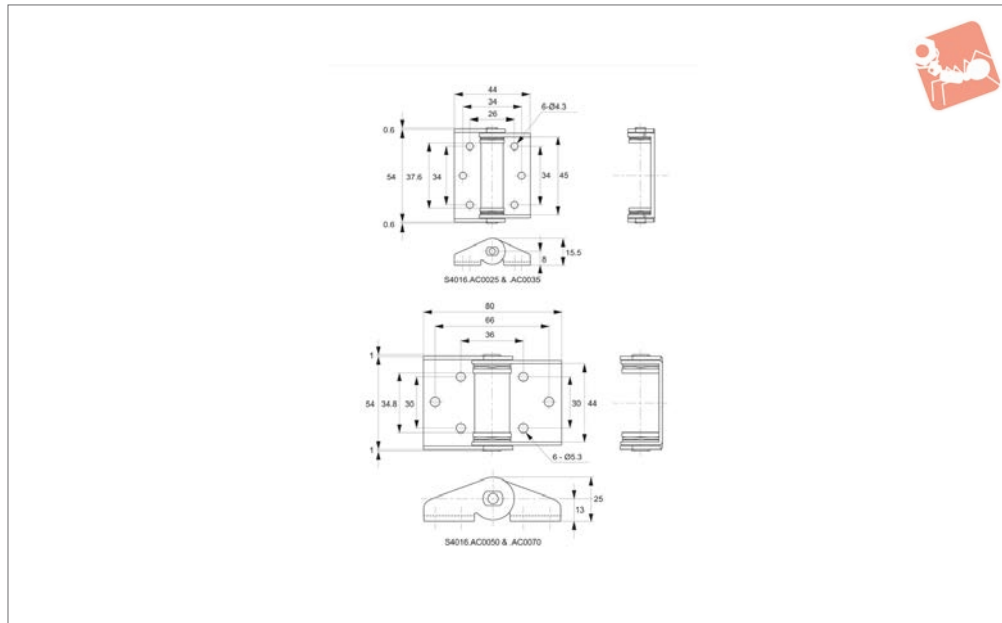


Constant Torque - Friction Hinges

screw mount - stainless



Hinges



S4016

HINGES

Material

Body: stainless steel, AISI 304, polished.

Shaft: stainless steel, AISI 303.

Washer: phosphor bronze.

Spring washer: steel.

Technical Notes

Friction torque hinge designed for holding

monitors, displays etc in position.

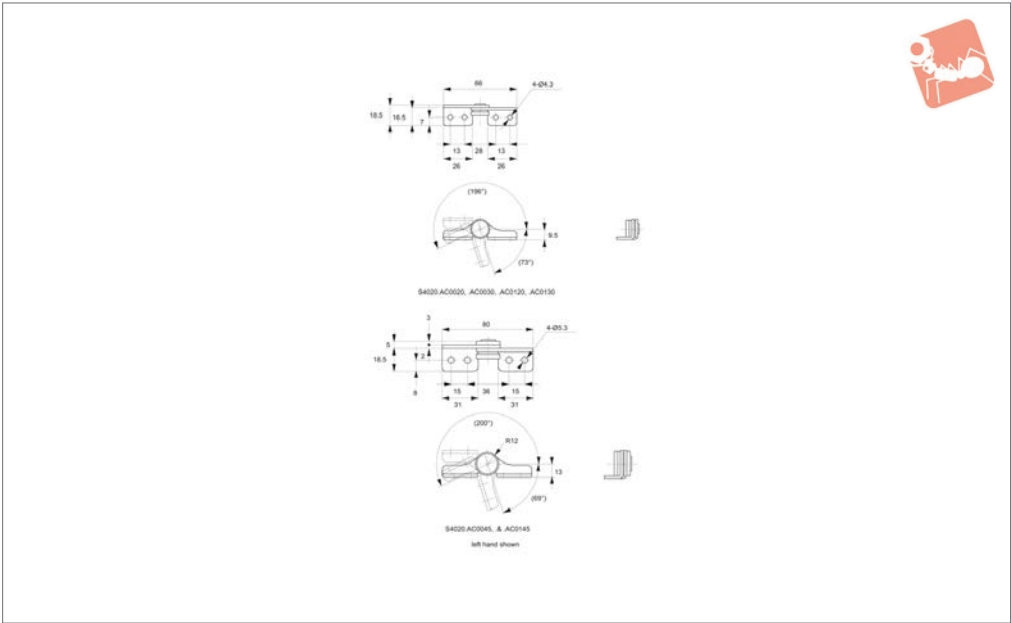
Important Notes

Applicable torque range 180°. Tested to 20,000 cycles, based on movement within a 45° range of movement. Temperature range -10 to +50°C.

Order No.	Torque kgf/cm ±20%	Weight g
S4016.AC0025	25	50
S4016.AC0035	35	50
S4016.AC0050	50	130
S4016.AC0070	70	130



S4020



Material

Body: stainless steel, AISI 430.

Technical Notes

Friction torque hinge ideal for mounting of

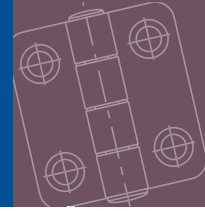
monitors, monitoring cameras, screens and displays. Consistent torque throughout free stop angle.

Order No.	Torque kgf/cm ±20%	Hand	Friction free stop angle	Weight g
S4020.AC0020	20.4	right	0-140°	30
S4020.AC0120	20.4	left	0-140°	30
S4020.AC0030	30.6	right	0-140°	30
S4020.AC0130	30.6	left	0-140°	30
S4020.AC0045	45.9	right	0-140°	65
S4020.AC0145	45.9	left	0-140°	65

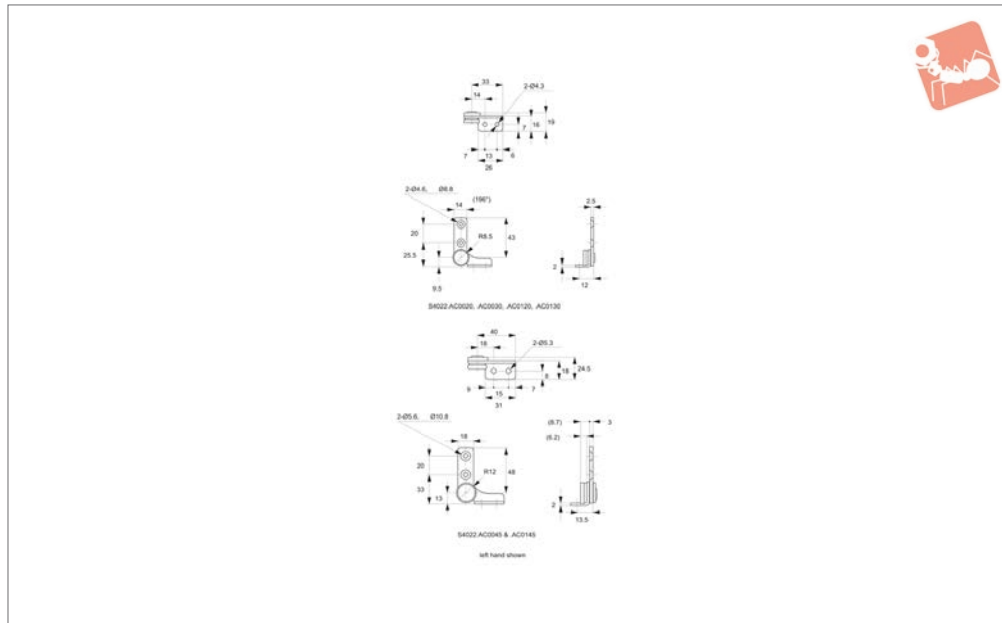


Constant Torque - Friction Torque

screw mount - stainless steel



Hinges



S4022

HINGES

Material

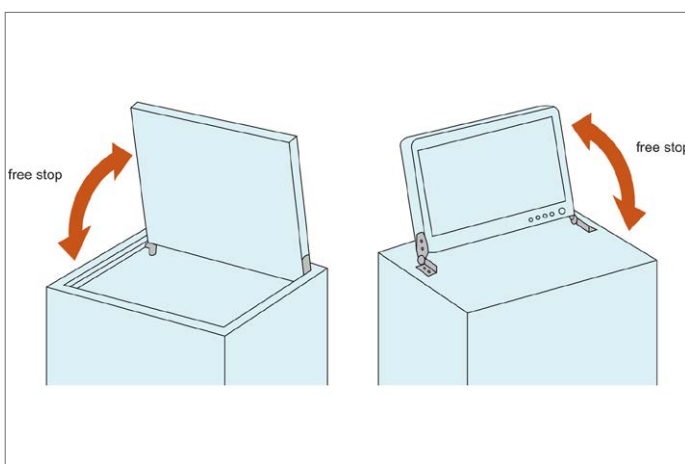
Body: stainless steel, AISI 430.

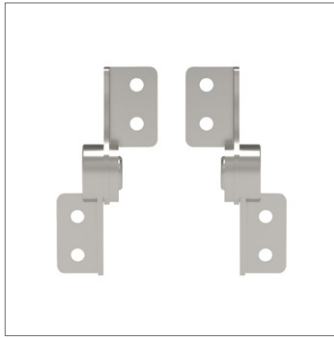
monitors, monitoring cameras, screens and displays. Consistent torque throughout free stop angle.

Technical Notes

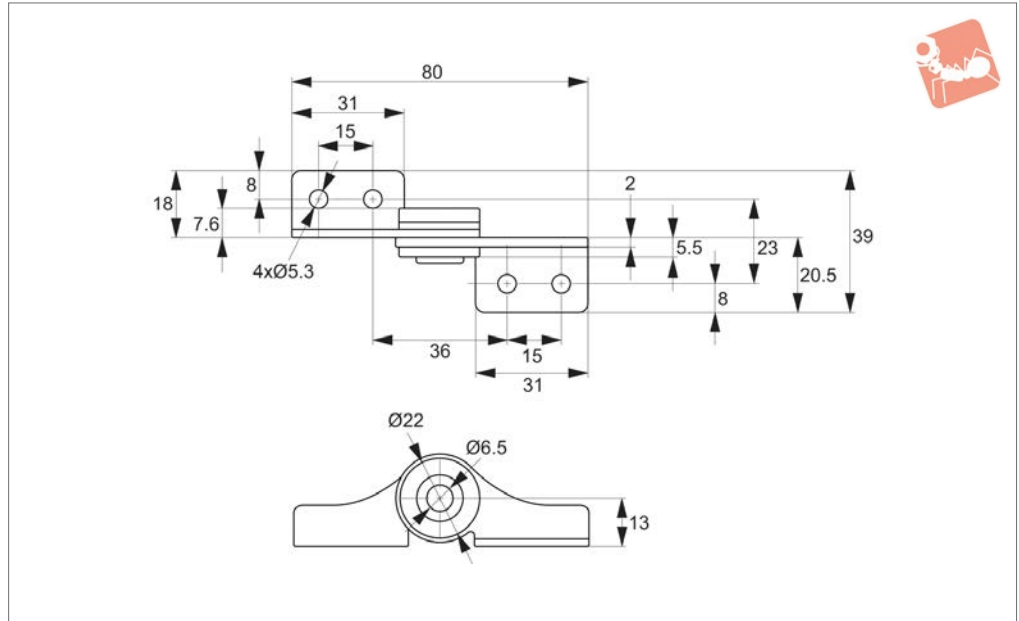
Friction torque hinge ideal for mounting of

Order No.	Torque kgf/cm ±20%	Hand	Opening angle	Weight g
S4022.AC0010	7.1	right	360°	31
S4022.AC0020	20.4	right	360°	30
S4022.AC0030	30.6	right	360°	30
S4022.AC0045	45.9	right	360°	65
S4022.AC0110	7.1	left	360°	31
S4022.AC0120	20.4	left	360°	30
S4022.AC0130	30.6	left	360°	30
S4022.AC0145	45.9	left	360°	65





S4024



Material

Bracket and Base- 430 Stainless, Plate-steel, Shaft and washer- 303 and 430 stainless steel.

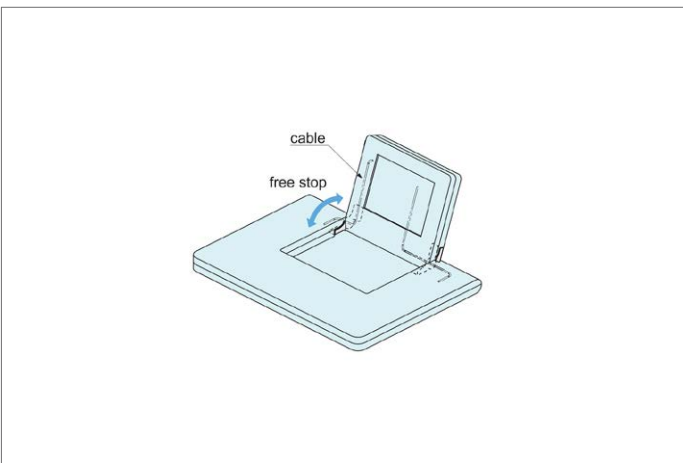
Technical Notes

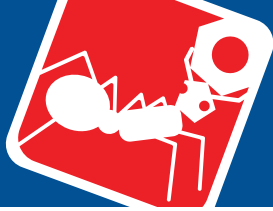
Hole in shaft allows easy cable manage-

ment. Ideal for the holder of LCD and monitoring camera. Successfull Passed for the 50,000 open/close private cycle test. Operating temperature: 0°C- 40°C. For pair using: Use the same torque moment in both hinges.

Torque moment per piece is 4.5 Nm $\pm$ 20%.

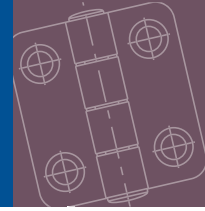
Order No.	Type	Weight g
S4024.AC0010	Right/Wiring Hole	60
S4024.AC0020	Left/Wiring Hole	60



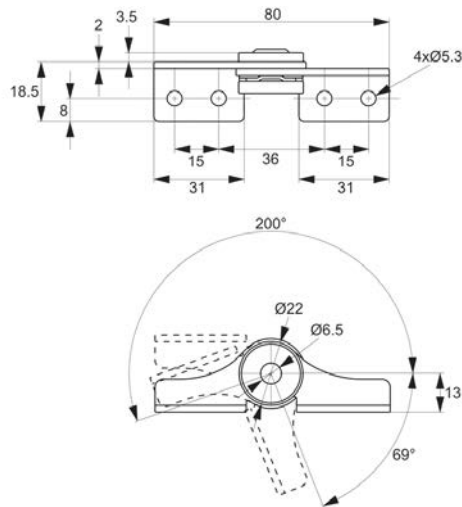


Constant Torque - Friction Torque

Friction Torque Hinges



Hinges



S4026

HINGES

Material

Bracket and Base- 430 Stainless, Plate-steel, Shaft and washer- 303 and 430 stainless steel.

Technical Notes

Hole in shaft allows easy cable manage-

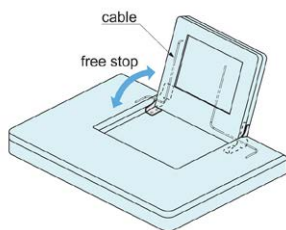
ment. Ideal for the holder of LCD and monitoring camera. Successfull Passed for the 50,000 open/close private cycle test. Torque moment per piece is 4.5 Nm $\pm$ 20%.

Tips

Operating temperature: 0°C- 40°C.

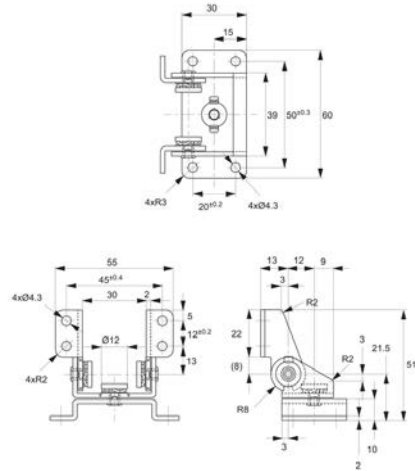
For pair using: Use the same torque moment in both hinges.

Order No.	Type	Weight g
S4026.AC0010	Right/Wiring Hole	60
S4026.AC0020	Left/Wiring Hole	60





S4030



Material

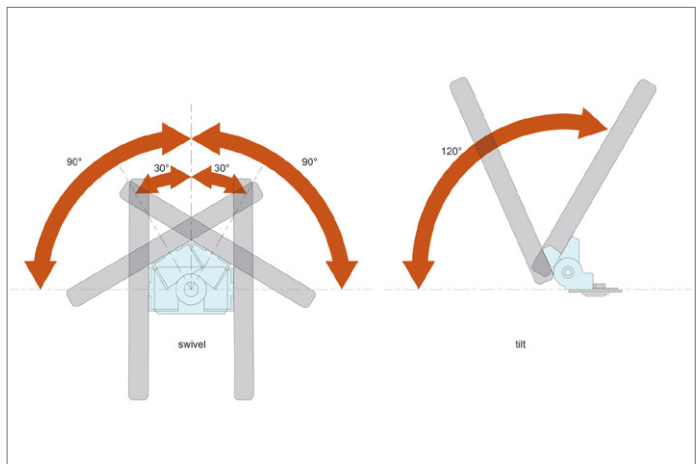
Body and base: stainless steel, AISI 430.

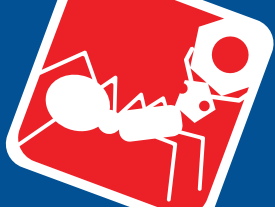
Technical Notes

Dual axis torque hinge with stability in

both axis. Ideal for mounting of monitor screens. Angle of swivel axis can be limited via use of pin/screw (not supplied).

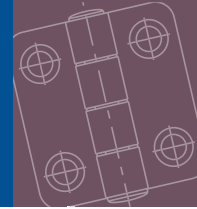
Order No.	Swivel angle	Swivelling torque kgf/cm ±20%	Tilting angle	Tilting torque kgf/cm ±20%
S4030.AC0030	30°/90°	15	120°	30



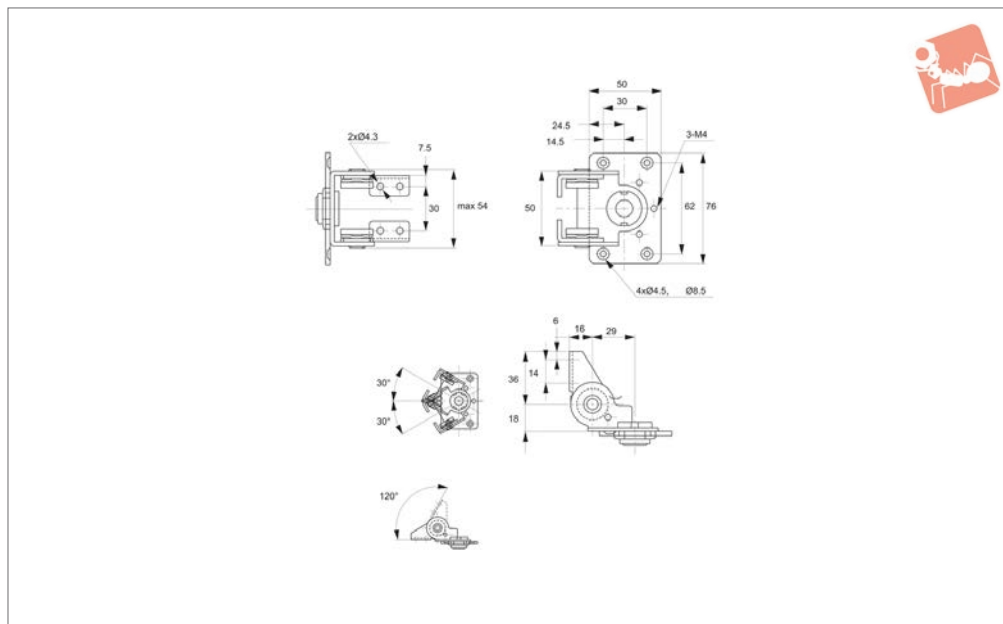


Constant Torque Hinge

dual axis fringe - screw mount - stainless



Hinges



S4032

HINGES

Material

Body and base: stainless steel, AISI 430.

Technical Notes

Dual axis torque hinge with stability in

both axis. Ideal for mounting of monitor screens. Angle of swivel axis can be limited via use of pin/screw (not supplied).

Order No.	Swivel angle	Swivelling torque kgf/cm ±20%	Tilting angle	Tilting torque kgf/cm ±15%
S4032.AC0030	30°/90°	30.5	120°	71.5

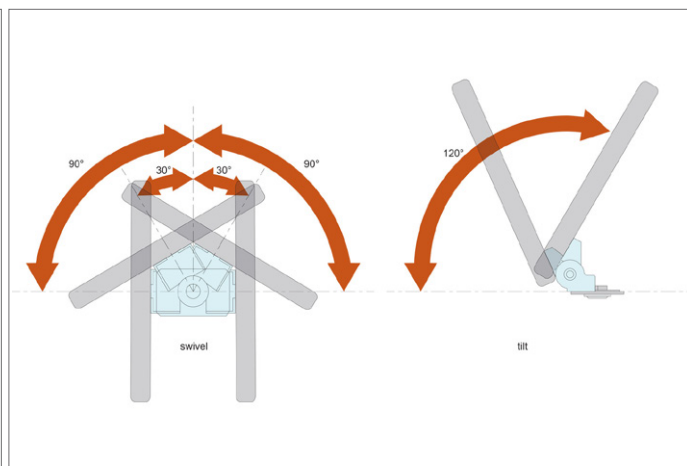
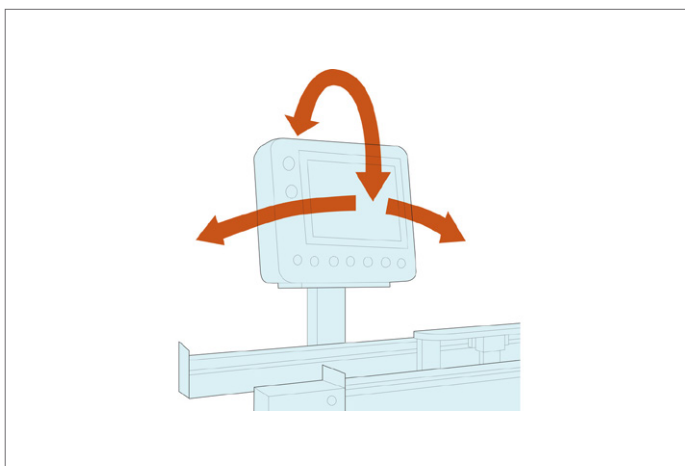




Table of constant torque ranges

Table of constant torque ranges					Torque Nm																
	Part no.	Torque type	Shaft Rotation	Torque Nm	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0	6,5	7,0			
	S3810	Symmetric	360°	0,05 to 3,80																	
	S3820	Symmetric/ Asymmetric	360°	0,2 to 1,1																	
	S3824	Symmetric/ Asymmetric	360°	0,2 to 1,1																	
	S3830	Symmetric/ Asymmetric	270°	0,9 to 3,4																	
	S3834	Symmetric/ Asymmetric	270°	0,9 to 3,4																	
	S3840	Symmetric/ Asymmetric	270°	0,9 to 3,4																	
	S3844	Symmetric/ Asymmetric	270°	0,9 to 4,5																	
	S3850	Symmetric/ Asymmetric	270°	0,9 to 3,4																	
	S3852	Symmetric/ Asymmetric	270°	0,9 to 3,4																	
	S3854	Symmetric/ Asymmetric	270°	0,9 to 4,5																	
	S3860	Symmetric	270°	3,5 to 7,0																	
	S3870	Symmetric	90° and 360°	2,5 to 5,0																	

Constant Torque Hinges S4000-S4032

Operating Principle

Wixroyd Constant Torque Hinges rely only on mechanical friction to achieve a stable torque. A range of different friction hinges are available to best suit your application.

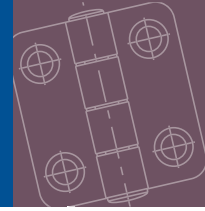
Table of constant torque ranges

				Torque Kgf.cm															
Part no.	Torque Kgf.cm			10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
 S4000	5 - 57.5																		
 S4002	8																		
 S4006	3.5 - 15.3																		
 S4010	15 - 30																		
 S4016	25 - 70																		
 S4020	20 - 45.8																		
 S4022	20 - 45.8																		
 S4030	Tilting: 30.5 Swivelling: 15																		
 S4032	Tilting: 71.5 Swivelling: 30.5																		

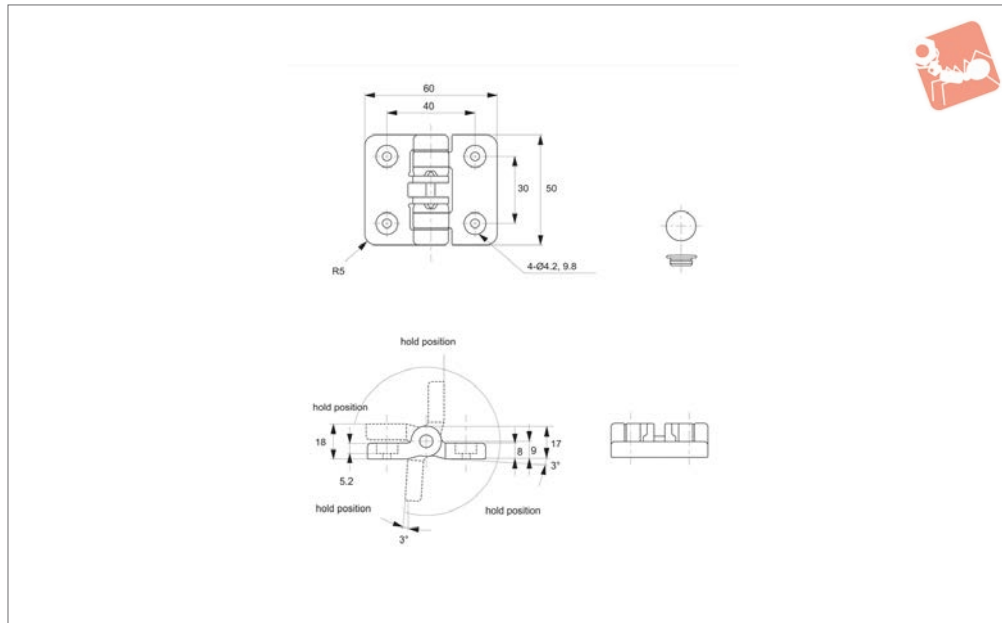


Detent Positioning Hinges

screw mount - plastic



Hinges



S4100

HINGES

Material

Body: polyacetal.
Caps: polypropylene.
Pin: AISI 304 stainless steel.

without secondary mechanical support.
Holding force approx. 5Kgf.cm.

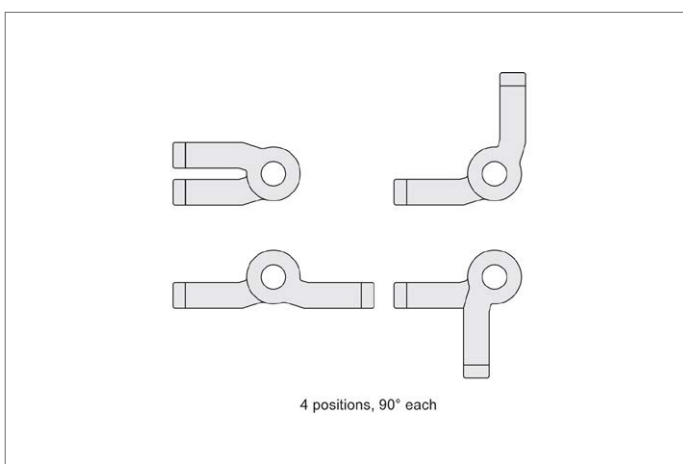
Tips

Suitable for medical, food processing and factory automation machines.

Technical Notes

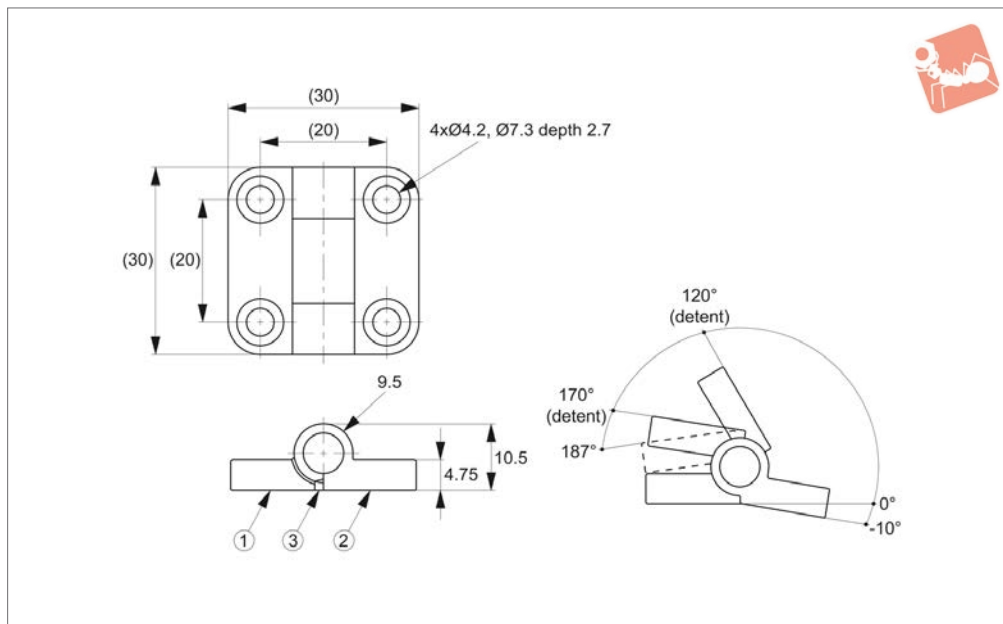
Holds doors open at 4x90° positions

Order No.	Colour	Weight g
S4100.AC0010	Ivory	30
S4100.AC0020	Black	30





S4102



Technical Notes

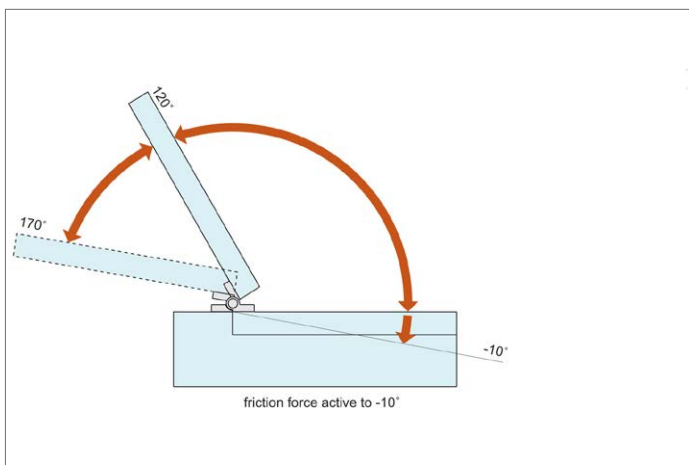
Plastic hinge holds doors at 3 different positions without secondary support (-10° , 120° and 170°). Can be used horizontally

or vertically. Additional stopper is recommended at 0° and 170° . Successfully passed for the 40,000 open/close private cycle test.

Tips

Recommended screw: Pan wood screw M4.

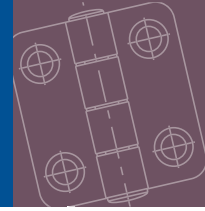
Order No.	Colour	Weight g
S4102.AW0010	Black	8
S4102.AW0020	White	8



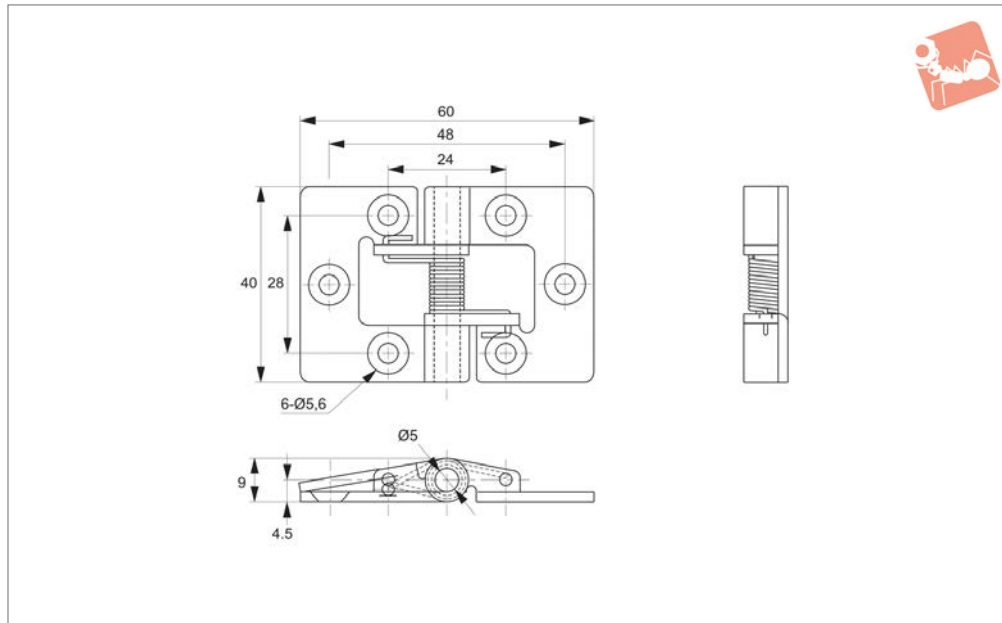


Spring Hinges - High Tension

screw mount - stainless



Hinges



S4200

HINGES

Material

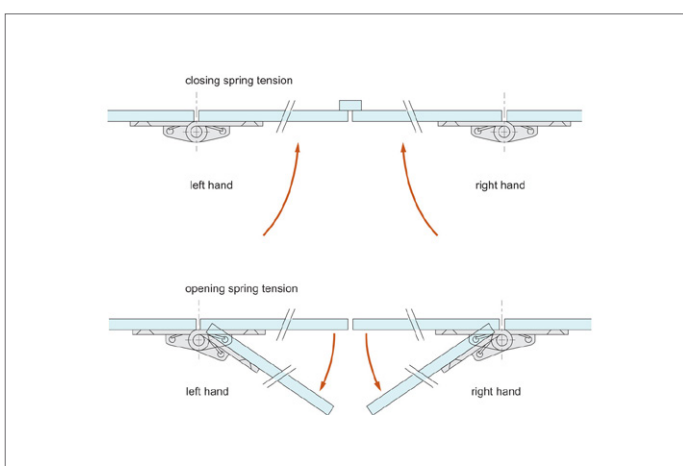
Stainless steel, AISI 304, polished finish.

opening type - spring works to keep door/
panel open; closing type - spring works to
close the door/panel.

Technical Notes

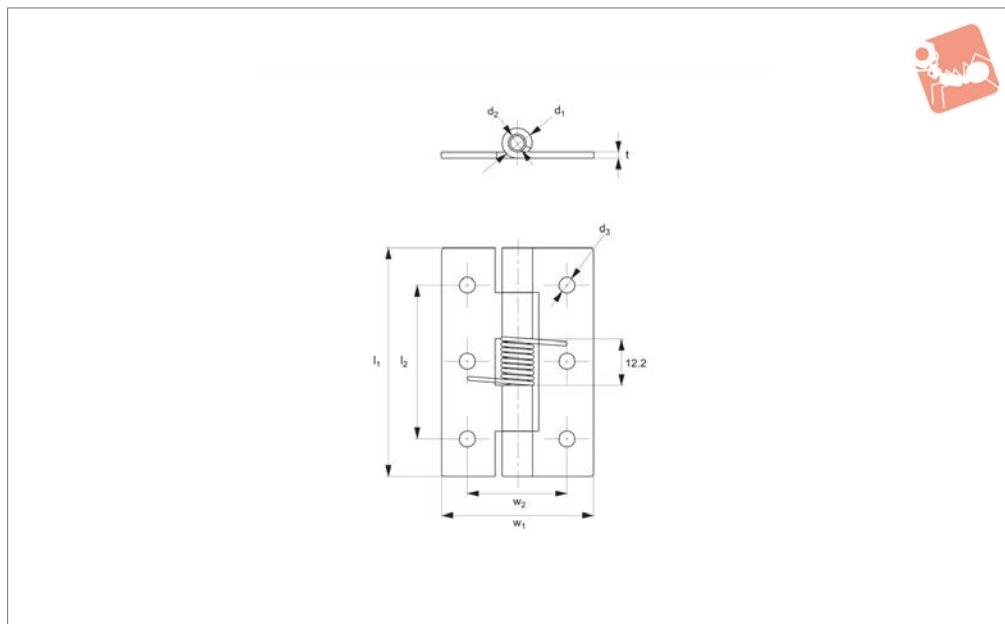
Two spring tension types available;

Order No.	Spring tension	Hand	Weight g
S4200.AC0010	Closing	Left	41
S4200.AC0110	Opening	Left	41
S4200.AC0020	Closing	Right	41
S4200.AC0120	Opening	Right	41





S4202



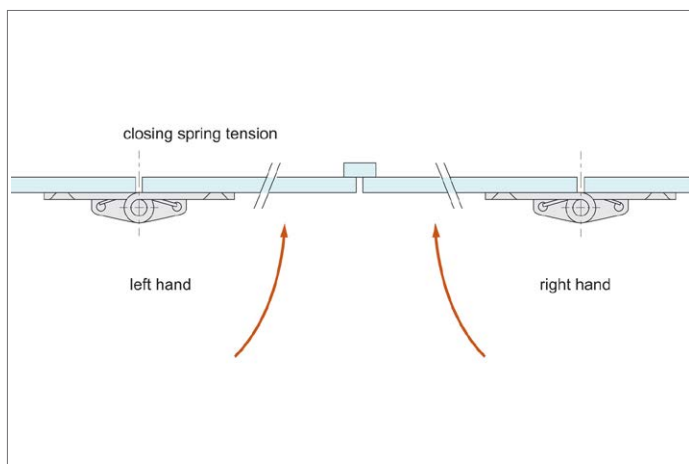
Material

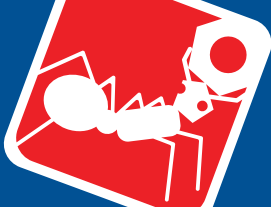
Stainless steel, AISI 304, plain finish.

Technical Notes

Spring tension in this hinge is designed to keep doors closed.

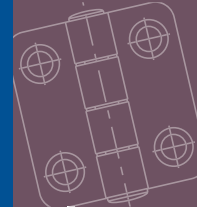
Order No.	Spring load kg	Spring tension	l_1	l_2	t	w_1	w_2	d_1	d_2	d_3	Weight g
S4202.AC0020	0.50	Closing	20	-	0.5	14	-	2.2	1	-	5
S4202.AC0025	0.55	Closing	25	14	1.2	32	20	5.8	3	3.2	10
S4202.AC0038	1.20	Closing	38	26	1.5	32	20	6.5	3	3.2	20
S4202.AC0051	0.80	Closing	51	32	1.5	38	25	6.5	3	3.2	35



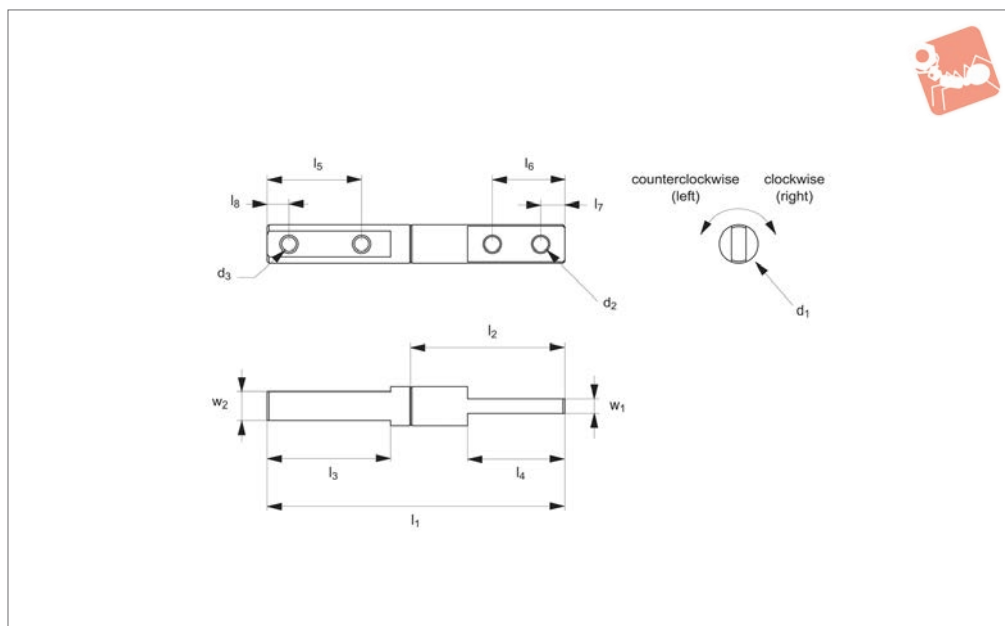


Friction Hinges

symmetric torque - 0,05-3,80 Nm. - plain bore



Hinges



S3810

HINGES

Material

Steel with nickel plating finish.

S3810.AC0003 and .AC0004 to within +/- 35%). 360° shaft rotation.

directions.

CW= clockwise.

CCW= counterclockwise.

Technical Notes

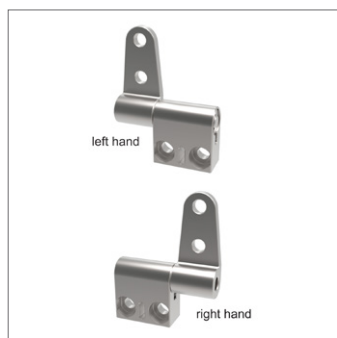
Tested to 10,000 cycles with static torque value remaining within +/- 25%. (Note;

Important Notes

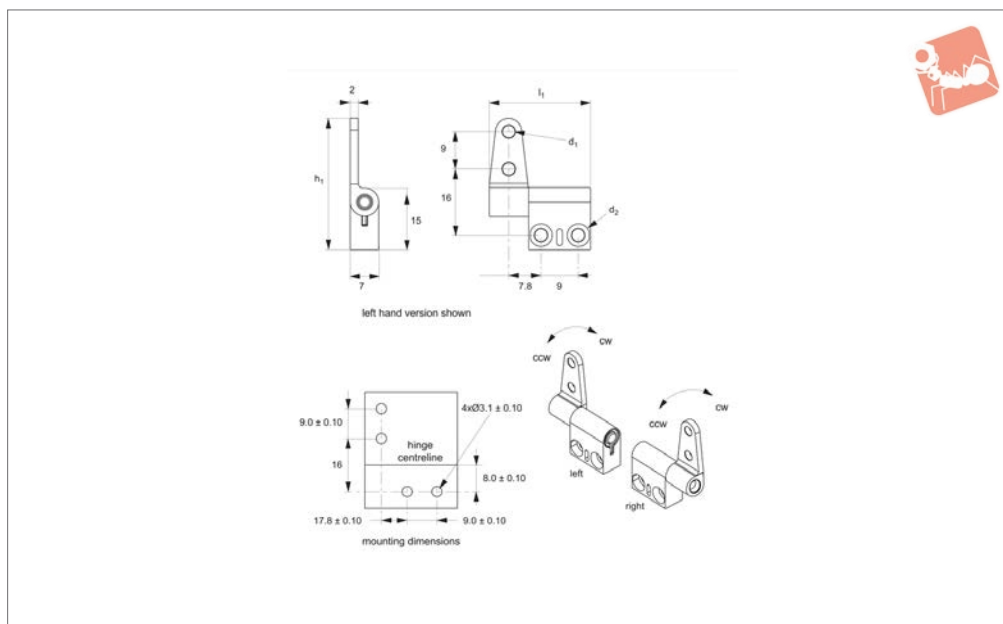
Symmetric hinges, offer same torque value in both clockwise and counterclockwise

Order No.	Dia. size	Torque CW Nm	Torque CCW Nm	Shaft rotation	Torque type	d ₁	d ₂	d ₃
S3810.AC0003	3	0.05	0.05	360°	Symmetric	3	-	-
S3810.AC0004	4	0.13	0.13	360°	Symmetric	4	2.2	2.2
S3810.AC0005	5	0.40	0.40	360°	Symmetric	5	2.6	2.6
S3810.AC0006	6	0.50	0.50	360°	Symmetric	6	3.2	3.2
S3810.AC0007	7	0.60	0.60	360°	Symmetric	7	3.7	3.7
S3810.AC0008	8	0.50	0.50	360°	Symmetric	8	3.2	3.2
S3810.AC0009	8	0.80	0.80	360°	Symmetric	8	3.2	3.2
S3810.AC0010	10	1.00	1.00	360°	Symmetric	10	4.3	4.3

Order No.	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	w ₁	w ₂
S3810.AC0003	27.0	9.2	8.0	8.0	-	-	-	-	1.5	-
S3810.AC0004	33.0	12.2	11.0	11.0	7.5	7.5	3.0	3.0	2.0	-
S3810.AC0005	39.0	15.2	14.0	14.0	10.5	10.5	3.5	3.5	2.0	-
S3810.AC0006	41.0	15.5	14.0	14.0	10.5	10.5	3.5	3.5	2.5	-
S3810.AC0007	47.0	18.0	16.0	16.0	12.0	12.0	4.0	4.0	3.0	-
S3810.AC0008	54.5	31.9	20.1	20.1	15.0	15.0	5.0	5.0	3.0	3.0
S3810.AC0009	54.5	31.9	20.1	20.1	15.0	15.0	5.0	5.0	3.0	3.0
S3810.AC0010	57.2	21.5	20.0	20.0	15.0	15.0	5.0	5.0	4.0	-



S3820



Material

Zinc alloy, steel and grease with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%.

Tips

For mounting and installation information

refer to technical diagram.

Also available with black oxide finish, on request and subject to min. quantity.

Important Notes

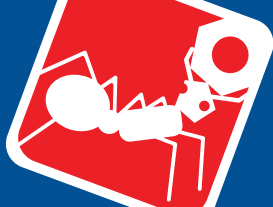
Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counter-

clockwise directions - see data table.

CW= clockwise.

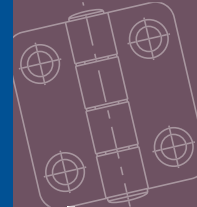
CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂	h ₁	l ₁
S3820.AC0002	0.20	0.20	360°	Right	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1002	0.20	0.20	360°	Left	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0005	0.50	0.50	360°	Right	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1005	0.50	0.50	360°	Left	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0007	0.70	0.70	360°	Right	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1007	0.70	0.70	360°	Left	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0009	0.90	0.90	360°	Right	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1009	0.90	0.90	360°	Left	Symmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0207	0.70	0.40	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1207	0.70	0.40	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0209	0.90	0.55	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1209	0.90	0.55	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0211	1.10	0.70	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1211	1.10	0.70	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0307	0.40	0.70	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1307	0.40	0.70	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0309	0.55	0.90	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1309	0.55	0.90	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC0311	0.70	1.10	360°	Right	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52
S3820.AC1311	0.70	1.10	360°	Left	Asymmetric	3.05	Ø5,44x2,54 dpt.	31.68	25.52

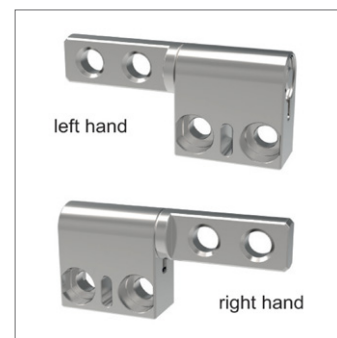
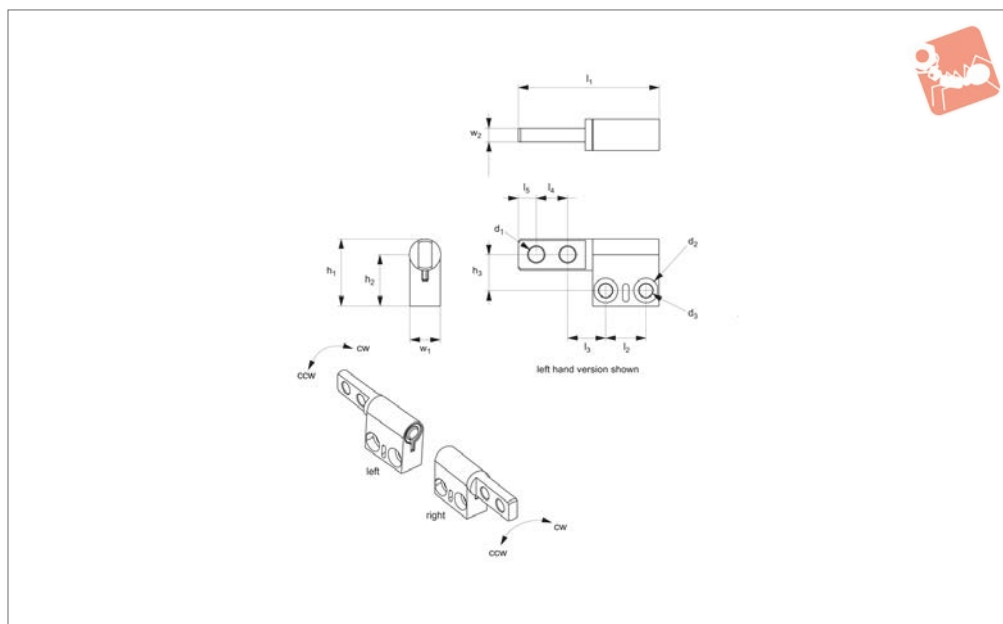


Friction Hinges

symmetric - asymmetric torque - 0,5-1,1 Nm. -



Hinges



S3824

HINGES

Material

Steel and zinc with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%.

Tips

Also available as black oxide finish, on

request and subject to min. quantity.

Important Notes

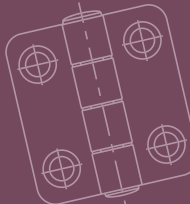
Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise

CCW= counterclockwise

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3824.AC0002	0.20	0.20	360°	Right	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0005	0.50	0.50	360°	Right	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0007	0.70	0.70	360°	Right	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0009	0.90	0.90	360°	Right	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0207	0.70	0.40	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0209	0.90	0.55	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0211	1.10	0.70	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0307	0.40	0.70	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0309	0.55	0.90	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC0311	0.70	1.10	360°	Right	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1002	0.20	0.20	360°	Left	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1005	0.50	0.50	360°	Left	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1007	0.70	0.70	360°	Left	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1009	0.90	0.90	360°	Left	Symmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1207	0.70	0.40	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1209	0.90	0.55	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1211	1.10	0.70	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1307	0.40	0.70	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1309	0.55	0.90	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.
S3824.AC1311	0.70	1.10	360°	Left	Asymmetric	3.5	Ø5,44x2,54 dpt.

Order No.	d ₃	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂
S3824.AC0002	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0005	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0007	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0009	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0207	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0209	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0211	3.05	15	12	8	32	9	9	7	4	7	3

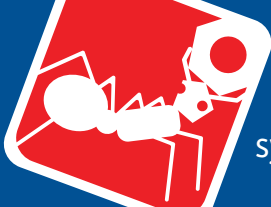


Friction Hinges

symmetric - asymmetric torque - 0,5-1,1 Nm. -



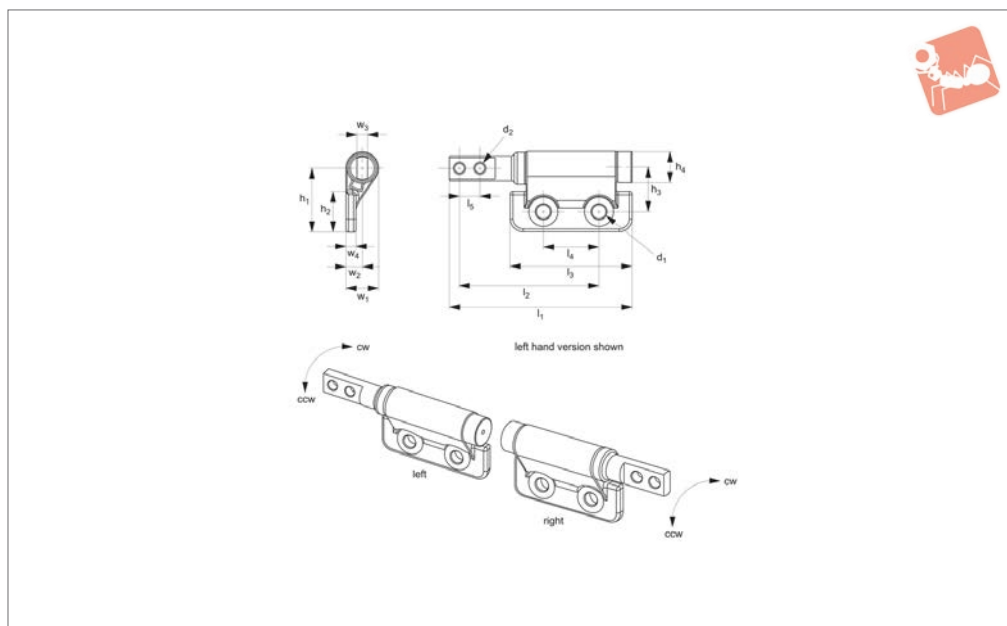
Order No.	d ₃	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂
S3824.AC0307	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0309	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC0311	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1002	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1005	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1007	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1009	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1207	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1209	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1211	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1307	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1309	3.05	15	12	8	32	9	9	7	4	7	3
S3824.AC1311	3.05	15	12	8	32	9	9	7	4	7	3



Friction Hinges

symmetric - asymmetric torque - 0,0-3,4 Nm. - plain

Hinges



S3830

HINGES

Material

Zinc alloy, steel, grease and o-ring with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring seals against environmental contamination.

tion.

Tips

Also available as black oxide finish, on request and subject to min. quantity.

Important Notes

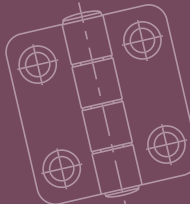
Symmetric hinges, offer same torque value

in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3830.AC0000	0.0	0.0	270°	Right	Symmetric	5	3.3
S3830.AC0009	0.9	0.9	270°	Right	Symmetric	5	3.3
S3830.AC0014	1.4	1.4	270°	Right	Symmetric	5	3.3
S3830.AC0018	1.8	1.8	270°	Right	Symmetric	5	3.3
S3830.AC0023	2.3	2.3	270°	Right	Symmetric	5	3.3
S3830.AC0027	2.7	2.7	270°	Right	Symmetric	5	3.3
S3830.AC0214	1.4	0.8	270°	Right	Asymmetric	5	3.3
S3830.AC0218	1.8	1.1	270°	Right	Asymmetric	5	3.3
S3830.AC0223	2.3	1.4	270°	Right	Asymmetric	5	3.3
S3830.AC0227	2.7	1.6	270°	Right	Asymmetric	5	3.3
S3830.AC0234	3.4	2.0	270°	Right	Asymmetric	5	3.3
S3830.AC0314	0.8	1.4	270°	Right	Asymmetric	5	3.3
S3830.AC0318	1.1	1.8	270°	Right	Asymmetric	5	3.3
S3830.AC0323	1.4	2.3	270°	Right	Asymmetric	5	3.3
S3830.AC0327	1.6	2.7	270°	Right	Asymmetric	5	3.3
S3830.AC0334	2.0	3.4	270°	Right	Asymmetric	5	3.3
S3830.AC1000	0.0	0.0	270°	Left	Symmetric	5	3.3
S3830.AC1009	0.9	0.9	270°	Left	Symmetric	5	3.3
S3830.AC1014	1.4	1.4	270°	Left	Symmetric	5	3.3
S3830.AC1018	1.8	1.8	270°	Left	Symmetric	5	3.3
S3830.AC1023	2.3	2.3	270°	Left	Symmetric	5	3.3
S3830.AC1027	2.7	2.7	270°	Left	Symmetric	5	3.3
S3830.AC1214	1.4	0.8	270°	Left	Asymmetric	5	3.3
S3830.AC1218	1.8	1.1	270°	Left	Asymmetric	5	3.3
S3830.AC1223	2.3	1.4	270°	Left	Asymmetric	5	3.3
S3830.AC1227	2.7	1.6	270°	Left	Asymmetric	5	3.3
S3830.AC1234	3.4	2.0	270°	Left	Asymmetric	5	3.3
S3830.AC1314	0.8	1.4	270°	Left	Asymmetric	5	3.3
S3830.AC1318	1.1	1.8	270°	Left	Asymmetric	5	3.3
S3830.AC1323	1.4	2.3	270°	Left	Asymmetric	5	3.3



Friction Hinges

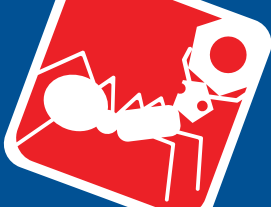
symmetric - asymmetric torque - 0,0-3,4 Nm. - plain



Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3830.AC1327	1.6	2.7	270°	Left	Asymmetric	5	3.3
S3830.AC1334	2.0	3.4	270°	Left	Asymmetric	5	3.3

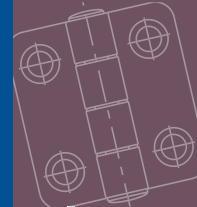
HINGES

Order No.	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂	w ₃	w ₄
S3830.AC0000	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0009	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0014	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0018	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0023	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0027	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0214	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0218	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0223	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0227	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0234	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0314	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0318	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0323	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0327	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC0334	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1000	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1009	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1014	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1018	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1023	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1027	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1214	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1218	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1223	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1227	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1234	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1314	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1318	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1323	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1327	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3830.AC1334	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	v	3

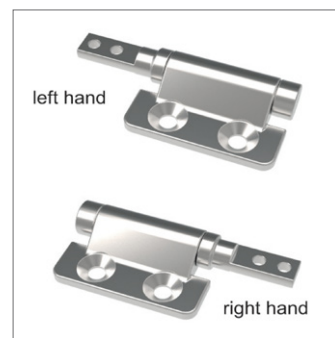
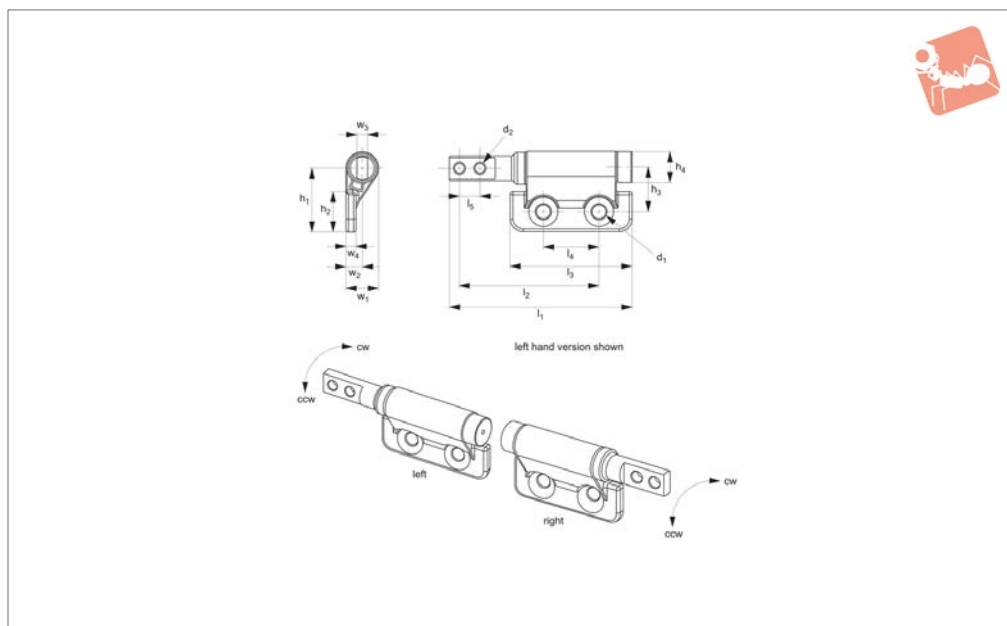


Friction Hinges

symmetric - asymmetric torque - 0,0-3,4 Nm. -



Hinges



S3834

Material

Zinc alloy, steel, grease and o-ring with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. 270° shaft rotation. Oil ring seals against envi-

ronmental contamination.

Tips

Also available as black oxide finish, on request and subject to min. quantity.

Important Notes

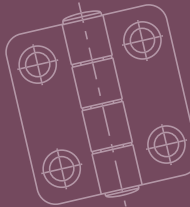
Symmetric hinges, offer same torque value

in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3834.AC0000	0.0	0.0	270°	Right	Symmetric	4.5	3.3
S3834.AC0009	0.9	0.9	270°	Right	Symmetric	4.5	3.3
S3834.AC0014	1.4	1.4	270°	Right	Symmetric	4.5	3.3
S3834.AC0018	1.8	1.8	270°	Right	Symmetric	4.5	3.3
S3834.AC0023	2.3	2.3	270°	Right	Symmetric	4.5	3.3
S3834.AC0027	2.7	2.7	270°	Right	Symmetric	4.5	3.3
S3834.AC0214	1.4	0.8	270°	Right	Asymmetric	4.5	3.3
S3834.AC0218	1.8	1.1	270°	Right	Asymmetric	4.5	3.3
S3834.AC0223	2.3	1.4	270°	Right	Asymmetric	4.5	3.3
S3834.AC0227	2.7	1.6	270°	Right	Asymmetric	4.5	3.3
S3834.AC0234	3.4	2.0	270°	Right	Asymmetric	4.5	3.3
S3834.AC0314	0.8	1.4	270°	Right	Asymmetric	4.5	3.3
S3834.AC0318	1.1	1.8	270°	Right	Asymmetric	4.5	3.3
S3834.AC0323	1.4	2.3	270°	Right	Asymmetric	4.5	3.3
S3834.AC0327	1.6	2.7	270°	Right	Asymmetric	4.5	3.3
S3834.AC0334	2.0	3.4	270°	Right	Asymmetric	4.5	3.3
S3834.AC1000	0.0	0.0	270°	Left	Symmetric	4.5	3.3
S3834.AC1009	0.9	0.9	270°	Left	Symmetric	4.5	3.3
S3834.AC1014	1.4	1.4	270°	Left	Symmetric	4.5	3.3
S3834.AC1018	1.8	1.8	270°	Left	Symmetric	4.5	3.3
S3834.AC1023	2.3	2.3	270°	Left	Symmetric	4.5	3.3
S3834.AC1027	2.7	2.7	270°	Left	Symmetric	4.5	3.3
S3834.AC1214	1.4	0.8	270°	Left	Asymmetric	4.5	3.3
S3834.AC1218	1.8	1.1	270°	Left	Asymmetric	4.5	3.3
S3834.AC1223	2.3	1.4	270°	Left	Asymmetric	4.5	3.3
S3834.AC1227	2.7	1.6	270°	Left	Asymmetric	4.5	3.3
S3834.AC1234	3.4	2.0	270°	Left	Asymmetric	4.5	3.3
S3834.AC1314	0.8	1.4	270°	Left	Asymmetric	4.5	3.3
S3834.AC1318	1.1	1.8	270°	Left	Asymmetric	4.5	3.3
S3834.AC1323	1.4	2.3	270°	Left	Asymmetric	4.5	3.3



Friction Hinges

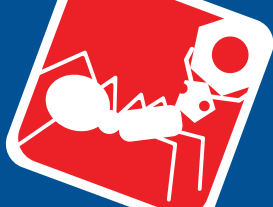
symmetric - asymmetric torque - 0,0-3,4 Nm. -



Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3834.AC1327	1.6	2.7	270°	Left	Asymmetric	4.5	3.3
S3834.AC1334	2.0	3.4	270°	Left	Asymmetric	4.5	3.3

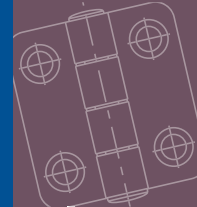
HINGES

Order No.	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂	w ₃	w ₄
S3834.AC0000	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0009	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0014	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0018	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0023	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0027	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0214	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0218	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0223	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0227	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0234	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0314	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0318	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0323	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0327	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC0334	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1000	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1009	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1014	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1018	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1023	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1027	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1214	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1218	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1223	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1227	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1234	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1314	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1318	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1323	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1327	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3
S3834.AC1334	20	12.5	14	57.15	43.76	38	17.8	6.35	10	5	3.18	3

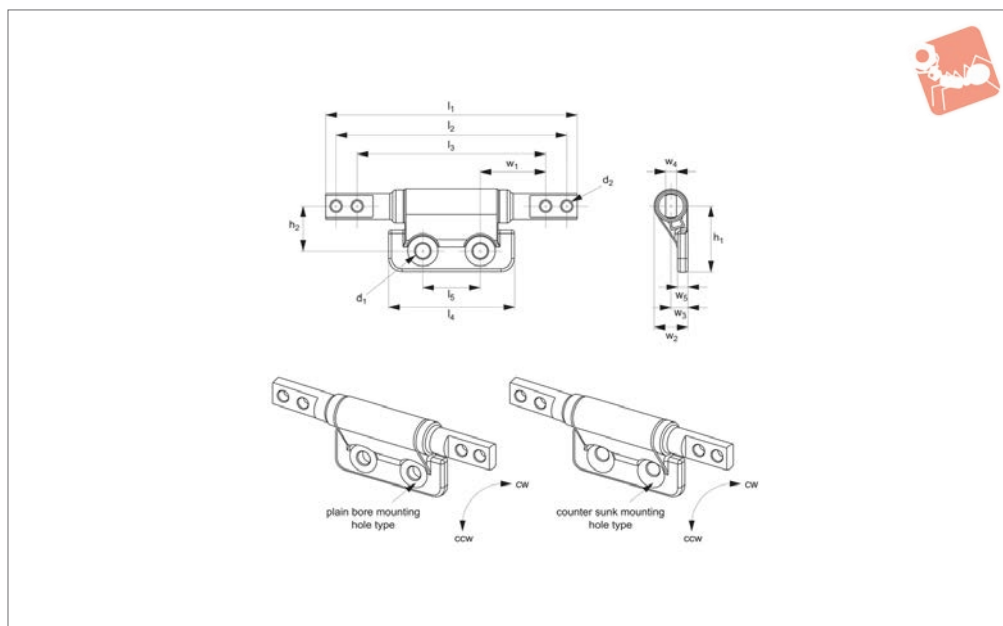


Friction Hinges

symmetric - asymmetric torque - 0,0-3,4 Nm. -



Hinges



S3840

HINGES

Material

Zinc alloy, steel, grease and o-ring with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring seals against environmental contamination.

tion.

Tips

Also available as black oxide finish, on request and subject to min. quantity.

Important Notes

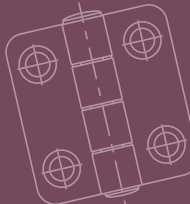
Symmetric hinges, offer same torque value

in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

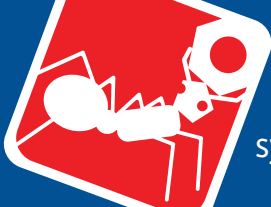
CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Counter sunk Torque Type
S3840.AC0000	0.0	0.0	270°	Plain	Symmetric
S3840.AC0009	0.9	0.9	270°	Plain	Symmetric
S3840.AC0014	1.4	1.4	270°	Plain	Symmetric
S3840.AC0018	1.8	1.8	270°	Plain	Symmetric
S3840.AC0023	2.3	2.3	270°	Plain	Symmetric
S3840.AC0027	2.7	2.7	270°	Plain	Symmetric
S3840.AC0214	1.4	0.8	270°	Plain	Asymmetric
S3840.AC0218	1.8	1.1	270°	Plain	Asymmetric
S3840.AC0223	2.3	1.4	270°	Plain	Asymmetric
S3840.AC0227	2.7	1.6	270°	Plain	Asymmetric
S3840.AC0234	3.4	2.0	270°	Plain	Asymmetric
S3840.AC0314	0.8	1.4	270°	Plain	Asymmetric
S3840.AC0318	1.1	1.8	270°	Plain	Asymmetric
S3840.AC0323	1.4	2.3	270°	Plain	Asymmetric
S3840.AC0327	1.6	2.7	270°	Plain	Asymmetric
S3840.AC0334	2.0	3.4	270°	C'sunk	Asymmetric
S3840.AC1000	0.0	0.0	270°	C'sunk	Symmetric
S3840.AC1009	0.9	0.9	270°	C'sunk	Symmetric
S3840.AC1014	1.4	1.4	270°	C'sunk	Symmetric
S3840.AC1018	1.8	1.8	270°	C'sunk	Symmetric
S3840.AC1023	2.3	2.3	270°	C'sunk	Symmetric
S3840.AC1027	2.7	2.7	270°	C'sunk	Symmetric
S3840.AC1214	1.4	0.8	270°	C'sunk	Symmetric
S3840.AC1218	1.8	1.1	270°	C'sunk	Symmetric
S3840.AC1223	2.3	1.4	270°	C'sunk	Symmetric
S3840.AC1227	2.7	1.6	270°	C'sunk	Symmetric
S3840.AC1234	3.4	2.0	270°	C'sunk	Asymmetric
S3840.AC1314	0.8	1.4	270°	C'sunk	Asymmetric
S3840.AC1318	1.1	1.8	270°	C'sunk	Asymmetric
S3840.AC1323	1.4	2.3	270°	C'sunk	Asymmetric



Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Counter sunk Torque Type
S3840.AC1327	1.6	2.7	270°	C'sunk	Asymmetric
S3840.AC1334	2.0	3.4	270°	C'sunk	Asymmetric

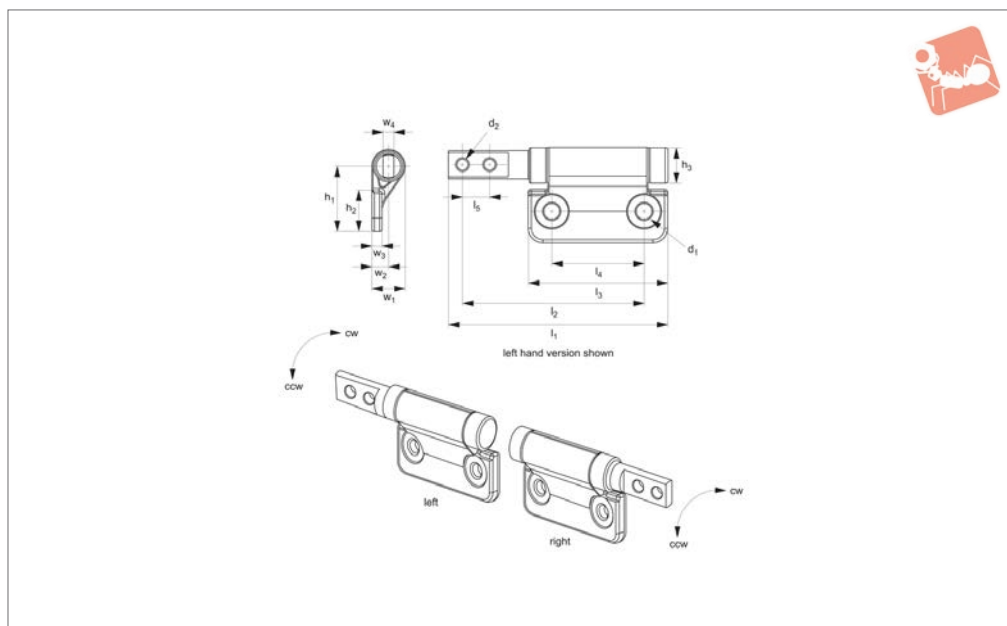
Order No.	d ₁	d ₂	h ₁	h ₂	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂	w ₃	w ₄	w ₅
S3840.AC0000	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0009	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0014	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0018	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0023	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0027	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0214	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0218	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0223	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0227	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0234	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0314	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0318	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0323	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0327	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC0334	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1000	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1009	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1014	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1018	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1023	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1027	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1214	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1218	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1223	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1227	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1234	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1314	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1318	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1323	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1327	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3
S3840.AC1334	4.5	3.3	20	14	76.29	69.72	57.02	38	17.8	19.6	10	5	3	3



Friction Hinges

symmetric - asymmetric torque - 0,0-4,5 Nm. - plain

Hinges



S3844

HINGES

Material

Steel and zinc with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring seals against environmental contamination.

Tips

Also available as black oxide finish, on request and subject to min. quantity.

Important Notes

Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer different

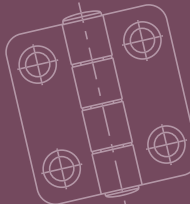
torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Hand	Torque type	d ₁	d ₂
S3844.AC0000	0.0	0.0	270°	Right	Symmetric	5.2	4.5
S3844.AC0009	0.9	0.9	270°	Right	Symmetric	5.2	4.5
S3844.AC0018	1.8	1.8	270°	Right	Symmetric	5.2	4.5
S3844.AC0023	2.3	2.3	270°	Right	Symmetric	5.2	4.5
S3844.AC0034	3.4	3.4	270°	Right	Symmetric	5.2	4.5
S3844.AC0223	2.3	1.4	270°	Right	Asymmetric	5.2	4.5
S3844.AC0234	3.4	2.0	270°	Right	Asymmetric	5.2	4.5
S3844.AC0245	4.5	2.7	270°	Right	Asymmetric	5.2	4.5
S3844.AC0323	1.4	2.3	270°	Right	Asymmetric	5.2	4.5
S3844.AC0334	2.0	3.4	270°	Right	Asymmetric	5.2	4.5
S3844.AC0345	2.7	4.5	270°	Right	Asymmetric	5.2	4.5
S3844.AC1000	0.0	0.0	270°	Left	Symmetric	5.2	4.5
S3844.AC1009	0.9	0.9	270°	Left	Symmetric	5.2	4.5
S3844.AC1018	1.8	1.8	270°	Left	Symmetric	5.2	4.5
S3844.AC1023	2.3	2.3	270°	Left	Symmetric	5.2	4.5
S3844.AC1034	3.4	3.4	270°	Left	Symmetric	5.2	4.5
S3844.AC1223	2.3	1.4	270°	Left	Asymmetric	5.2	4.5
S3844.AC1234	3.4	2.0	270°	Left	Asymmetric	5.2	4.5
S3844.AC1245	4.5	2.7	270°	Left	Asymmetric	5.2	4.5
S3844.AC1323	1.4	2.3	270°	Left	Asymmetric	5.2	4.5
S3844.AC1334	2.0	3.4	270°	Left	Asymmetric	5.2	4.5
S3844.AC1345	2.7	4.5	270°	Left	-	5.2	4.5

Order No.	h ₁	h ₂	h ₃	l ₁	l ₂	l ₃	l ₄	l ₅	w ₁	w ₂	w ₃	w ₄
S3844.AC0000	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0009	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0018	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0023	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0034	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0223	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4

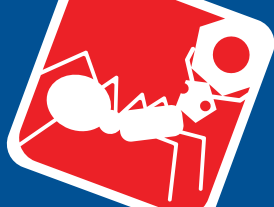


Friction Hinges

symmetric - asymmetric torque - 0,0-4,5 Nm. - plain

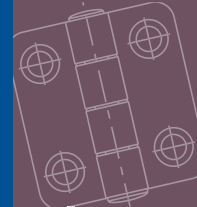


Order No.	h_1	h_2	h_3	l_1	l_2	l_3	l_4	l_5	w_1	w_2	w_3	w_4
S3844.AC0234	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0245	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0323	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0334	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC0345	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1000	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1009	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1018	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1023	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1034	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1223	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1234	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1245	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1323	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1334	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4
S3844.AC1345	25.58	19.5	12.7	80.8	67.4	50.8	34	10	12.7	6.35	4.5	4

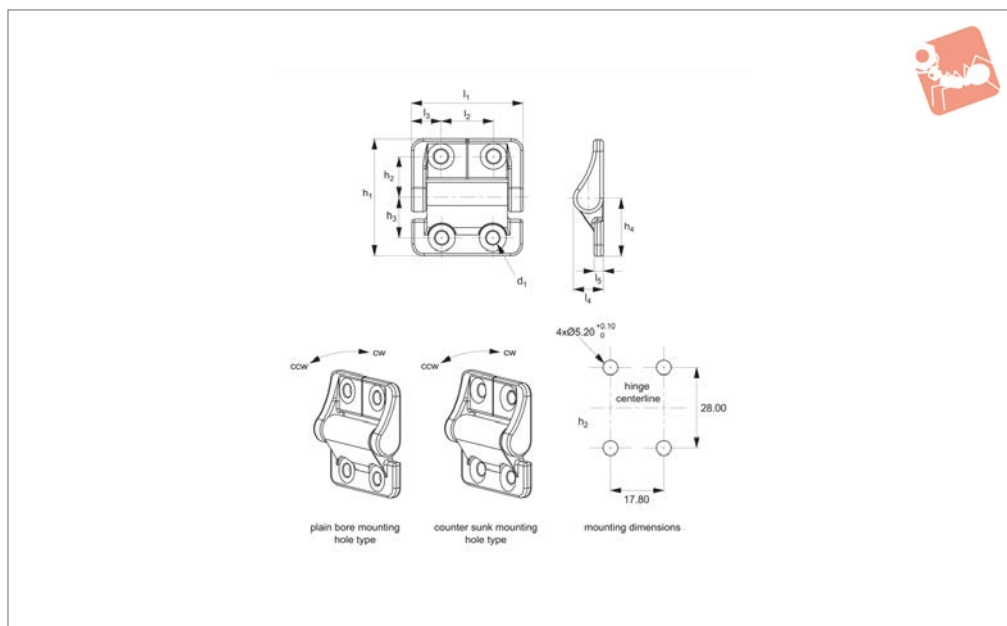


Friction Hinges - Natural - Symmetric

asymmetric torque - countersunk & plain bore



Hinges



S3850

HINGES

Material

Zinc alloy, steel, grease and o-ring with natural finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring seals against environmental contamination.

Tips

For mounting and installation information refer to technical diagram.

Also available as black paint finish, see part S5852.

Important Notes

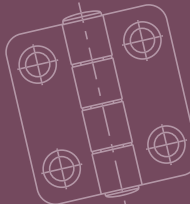
Symmetric hinges, offer same torque value in both clockwise and counterclockwise

directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

CW= clockwise.

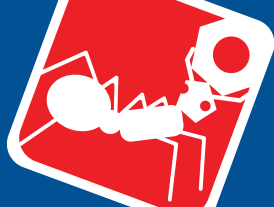
CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Torque type	d ₁	h ₁
S3850.AC0000	0.0	0.0	270°	Plain	Symmetric	4.5	40
S3850.AC0009	0.9	0.9	270°	Plain	Symmetric	4.5	40
S3850.AC0014	1.4	1.4	270°	Plain	Symmetric	4.5	40
S3850.AC0018	1.8	1.8	270°	Plain	Symmetric	4.5	40
S3850.AC0023	2.3	2.3	270°	Plain	Symmetric	4.5	40
S3850.AC0027	2.7	2.7	270°	Plain	Symmetric	4.5	40
S3850.AC0214	1.4	0.8	270°	Plain	Asymmetric	4.5	40
S3850.AC0218	1.8	1.1	270°	Plain	Asymmetric	4.5	40
S3850.AC0223	2.3	1.4	270°	Plain	Asymmetric	4.5	40
S3850.AC0227	2.7	1.6	270°	Plain	Asymmetric	4.5	40
S3850.AC0234	3.4	2.0	270°	Plain	Asymmetric	4.5	40
S3850.AC0314	0.8	1.4	270°	Plain	Asymmetric	4.5	40
S3850.AC0318	1.1	1.8	270°	Plain	Asymmetric	4.5	40
S3850.AC0323	1.4	2.3	270°	Plain	Asymmetric	4.5	40
S3850.AC0327	1.6	2.7	270°	Plain	Asymmetric	4.5	40
S3850.AC0334	2.0	3.4	270°	Plain	Asymmetric	4.5	40
S3850.AC1000	0.0	0.0	270°	C'sunk	Symmetric	4.5	40
S3850.AC1009	0.9	0.9	270°	C'sunk	Symmetric	4.5	40
S3850.AC1014	1.4	1.4	270°	C'sunk	Symmetric	4.5	40
S3850.AC1018	1.8	1.8	270°	C'sunk	Symmetric	4.5	40
S3850.AC1023	2.3	2.3	270°	C'sunk	Symmetric	4.5	40
S3850.AC1027	2.7	2.7	270°	C'sunk	Symmetric	4.5	40
S3850.AC1214	1.4	0.8	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1218	1.8	1.1	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1223	2.3	1.4	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1227	2.7	1.6	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1234	3.4	2.0	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1314	0.8	1.4	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1318	1.1	1.8	270°	C'sunk	Asymmetric	4.5	40



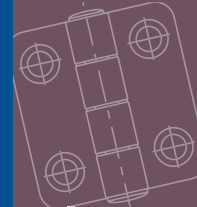
Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Torque type	d ₁	h ₁
S3850.AC1323	1.4	2.3	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1327	1.6	2.7	270°	C'sunk	Asymmetric	4.5	40
S3850.AC1334	2.0	3.4	270°	C'sunk	Asymmetric	4.5	40

Order No.	h ₂	h ₃	h ₄	l ₁	l ₂	l ₃	l ₄	l ₅
S3850.AC0000	14	14	20	38	17.8	10.1	10	3
S3850.AC0009	14	14	20	38	17.8	10.1	10	3
S3850.AC0014	14	14	20	38	17.8	10.1	10	3
S3850.AC0018	14	14	20	38	17.8	10.1	10	3
S3850.AC0023	14	14	20	38	17.8	10.1	10	3
S3850.AC0027	14	14	20	38	17.8	10.1	10	3
S3850.AC0214	14	14	20	38	17.8	10.1	10	3
S3850.AC0218	14	14	20	38	17.8	10.1	10	3
S3850.AC0223	14	14	20	38	17.8	10.1	10	3
S3850.AC0227	14	14	20	38	17.8	10.1	10	3
S3850.AC0234	14	14	20	38	17.8	10.1	10	3
S3850.AC0314	14	14	20	38	17.8	10.1	10	3
S3850.AC0318	14	14	20	38	17.8	10.1	10	3
S3850.AC0323	14	14	20	38	17.8	10.1	10	3
S3850.AC0327	14	14	20	38	17.8	10.1	10	3
S3850.AC0334	14	14	20	38	17.8	10.1	10	3
S3850.AC1000	14	14	20	38	17.8	10.1	10	3
S3850.AC1009	14	14	20	38	17.8	10.1	10	3
S3850.AC1014	14	14	20	38	17.8	10.1	10	3
S3850.AC1018	14	14	20	38	17.8	10.1	10	3
S3850.AC1023	14	14	20	38	17.8	10.1	10	3
S3850.AC1027	14	14	20	38	17.8	10.1	10	3
S3850.AC1214	14	14	20	38	17.8	10.1	10	3
S3850.AC1218	14	14	20	38	17.8	10.1	10	3
S3850.AC1223	14	14	20	38	17.8	10.1	10	3
S3850.AC1227	14	14	20	38	17.8	10.1	10	3
S3850.AC1234	14	14	20	38	17.8	10.1	10	3
S3850.AC1314	14	14	20	38	17.8	10.1	10	3
S3850.AC1318	14	14	20	38	17.8	10.1	10	3
S3850.AC1323	14	14	20	38	17.8	10.1	10	3
S3850.AC1327	14	14	20	38	17.8	10.1	10	3
S3850.AC1334	14	14	20	38	17.8	10.1	10	3

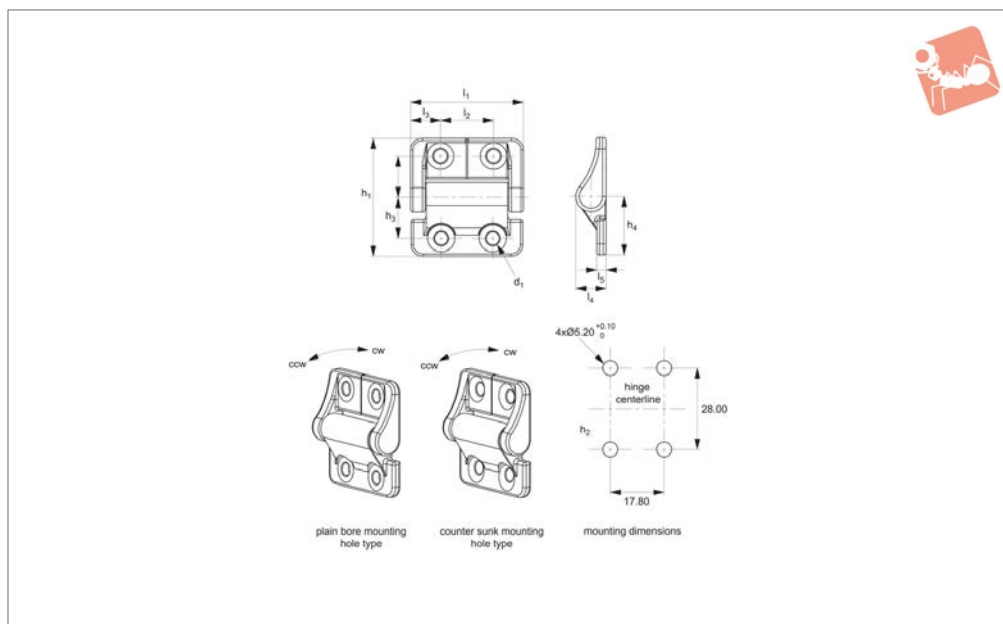


Friction Hinges - Black

symmetric - asymmetric torque - 0,0-3,5 Nm. -



Hinges



S3852

HINGES

Material

Zinc alloy, steel, grease and o-ring with black paint finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring seals against environmental contamination.

tion.

Tips

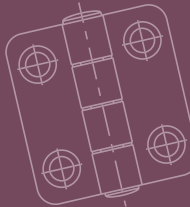
For mounting and installation information refer to technical diagram. Also available as natural finish see part S3850.

Important Notes

Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer different torque value in clockwise and counterclockwise directions - see data table.

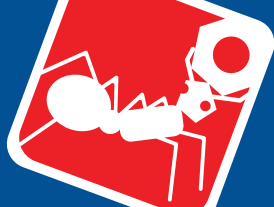
CW= clockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Torque type
S3852.AC0000	0.0	0.0	270°	Plain	Symmetric
S3852.AC0009	0.9	0.9	270°	Plain	Symmetric
S3852.AC0014	1.4	1.4	270°	Plain	Symmetric
S3852.AC0018	1.8	1.8	270°	Plain	Symmetric
S3852.AC0023	2.3	2.3	270°	Plain	Symmetric
S3852.AC0027	2.7	2.7	270°	Plain	Symmetric
S3852.AC0214	1.4	0.8	270°	Plain	Asymmetric
S3852.AC0218	1.8	1.1	270°	Plain	Asymmetric
S3852.AC0223	2.3	1.4	270°	Plain	Asymmetric
S3852.AC0227	2.7	1.6	270°	Plain	Asymmetric
S3852.AC0234	3.4	2.0	270°	Plain	Asymmetric
S3852.AC0314	0.8	1.4	270°	Plain	Asymmetric
S3852.AC0318	1.1	1.8	270°	Plain	Asymmetric
S3852.AC0323	1.4	2.3	270°	Plain	Asymmetric
S3852.AC0327	1.6	2.7	270°	Plain	Asymmetric
S3852.AC0334	2.0	3.4	270°	Plain	Asymmetric
S3852.AC1000	0.0	0.0	270°	C'sunk	Symmetric
S3852.AC1009	0.9	0.9	270°	C'sunk	Symmetric
S3852.AC1014	1.4	1.4	270°	C'sunk	Symmetric
S3852.AC1018	1.8	1.8	270°	C'sunk	Symmetric
S3852.AC1023	2.3	2.3	270°	C'sunk	Symmetric
S3852.AC1027	2.7	2.7	270°	C'sunk	Symmetric
S3852.AC1214	1.4	0.8	270°	C'sunk	Asymmetric
S3852.AC1218	1.8	1.1	270°	C'sunk	Asymmetric
S3852.AC1223	2.3	1.4	270°	C'sunk	Asymmetric
S3852.AC1227	2.7	1.6	270°	C'sunk	Asymmetric
S3852.AC1234	3.4	2.0	270°	C'sunk	Asymmetric
S3852.AC1314	0.8	1.4	270°	C'sunk	Asymmetric
S3852.AC1318	1.1	1.8	270°	C'sunk	Asymmetric
S3852.AC1323	1.4	2.3	270°	C'sunk	Asymmetric



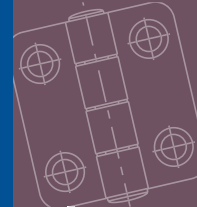
Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Mounting hole	Torque type
S3852.AC1327	1.6	2.7	270°	C'sunk	Asymmetric
S3852.AC1334	2.0	3.4	270°	C'sunk	Asymmetric

Order No.	d ₁	h ₁	h ₂	h ₃	h ₄	l ₁	l ₂	l ₃	l ₄	l ₅
S3852.AC0000	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0009	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0014	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0018	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0023	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0027	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0214	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0218	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0223	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0227	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0234	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0314	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0318	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0323	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0327	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC0334	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1000	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1009	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1014	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1018	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1023	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1027	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1214	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1218	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1223	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1227	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1234	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1314	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1318	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1323	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1327	4.5	40	14	14	20	38	17.8	10.1	10	3
S3852.AC1334	4.5	40	14	14	20	38	17.8	10.1	10	3

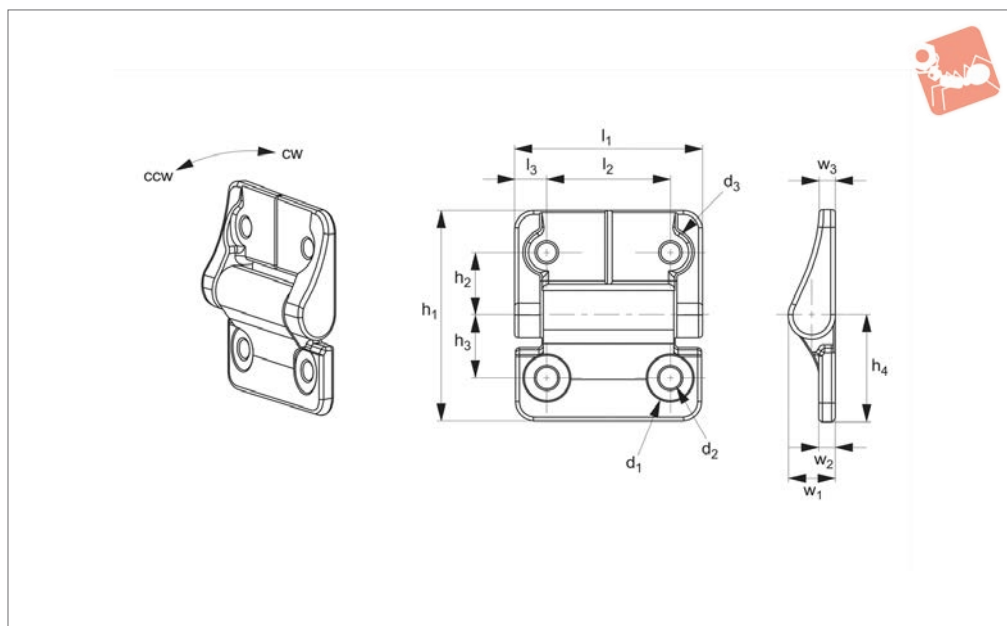


Friction Hinges - Natural & Black

symmetric - asymmetric torque



Hinges



S3854

HINGES

Material

Steel and zinc with natural or black oxide finish.

Technical Notes

Tested to 25,000 cycles with static torque value remaining within +/- 20%. Oil ring

seals against environmental contamination.

Important Notes

Symmetric hinges, offer same torque value in both clockwise and counterclockwise directions. Asymmetric hinges, offer diffe-

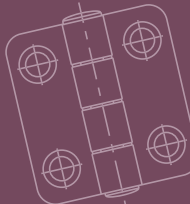
rent torque value in clockwise and counter-clockwise directions - see data table.

CW= clockwise.

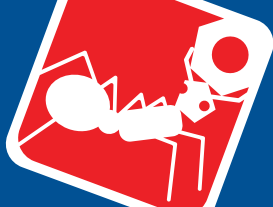
CCW= counterclockwise.

Order No.	Torque CW Nm	Torque CCW Nm	Shaft rotation	Finish	Torque type	d ₁	d ₂	d ₃
S3854.AC0000	0.0	0.0	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0009	0.9	0.9	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0018	1.8	1.8	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0023	2.3	2.3	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0034	3.4	3.4	270°	Natural	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0223	2.3	1.4	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0234	3.4	2.0	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0327	4.5	2.7	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0323	1.4	2.3	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0334	2.0	3.4	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC0345	2.7	4.5	270°	Natural	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1000	0.0	0.0	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1009	0.9	0.9	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1018	1.8	1.8	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1023	2.3	2.3	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1034	3.4	3.4	270°	Black paint	Symmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1223	2.3	1.4	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1234	3.4	2.0	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1327	4.5	2.7	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1323	1.4	2.3	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1334	2.0	3.4	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10
S3854.AC1345	2.7	4.5	270°	Black paint	Asymmetric	Ø12x0,7 dept.	5.2	10

Order No.	h ₁	h ₂	h ₃	h ₄	l ₁	l ₂	l ₃	w ₁	w ₂	w ₃
S3854.AC0000	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0009	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0018	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0023	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0034	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0223	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0234	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81

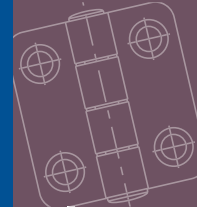


Order No.	h_1	h_2	h_3	h_4	l_1	l_2	l_3	w_1	w_2	w_3
S3854.AC0327	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0323	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0334	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC0345	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1000	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1009	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1018	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1023	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1034	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1223	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1234	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1327	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1323	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1334	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81
S3854.AC1345	57.15	17	17	28.58	50.8	34	8.4	12.8	4.5	3.81

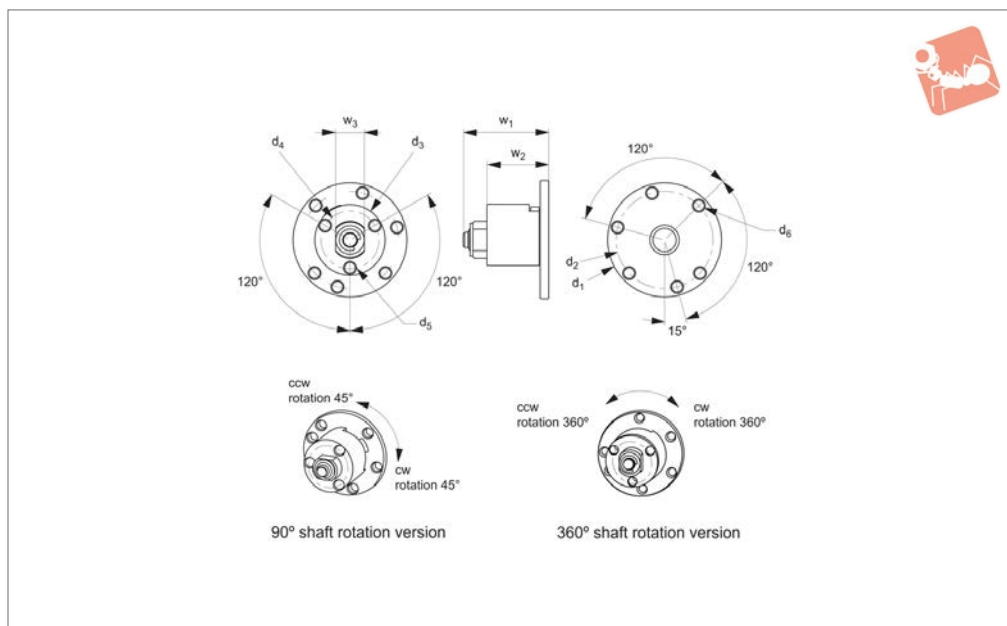


Friction Hinges

symmetric torque - 2,5-5,0 Nm.



Hinges



S3870

HINGES

Material

Steel with nickel plating finish.

value remaining within +/- 25%.

CW= clockwise.

CCW= counterclockwise.

Technical Notes

Tested to 10,000 cycles with static torque

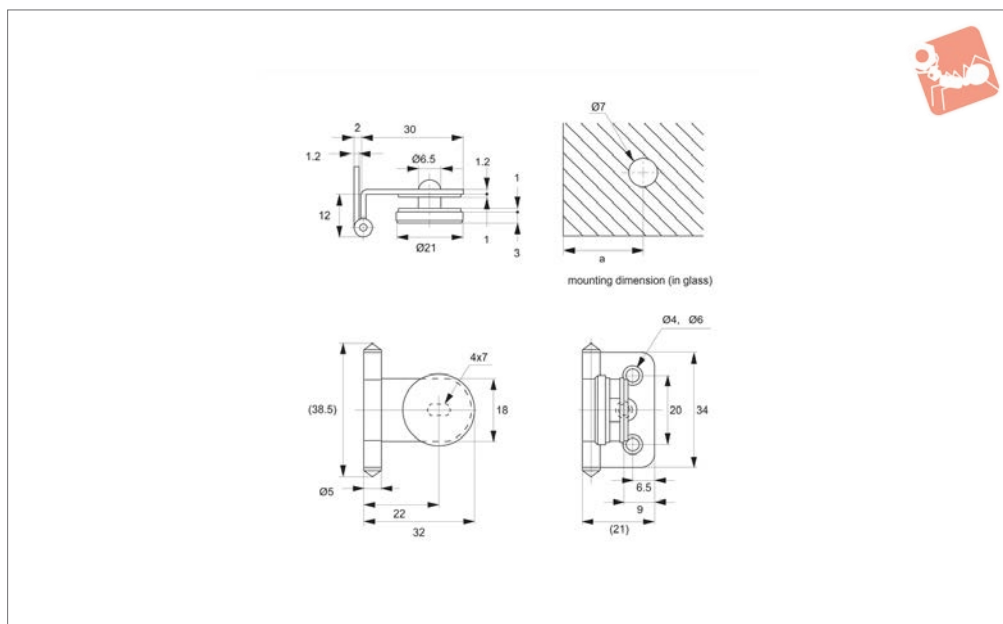
Important Notes

Symmetric, offer same torque value in both clockwise and counterclockwise directions.

Order No.	Torque Nm	Shaft rotation	Torque type	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	w ₁	w ₂	w ₃ thru
S3870.AC0025	2.5	90°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0030	3.0	90°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0040	4.0	90°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0050	5.0	90°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0125	2.5	360°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0130	3.0	360°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0140	4.0	360°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8
S3870.AC0150	5.0	360°	Symmetric	32.1	27	20	16	M 3x0,50	M 3x0,50	23.7	17	8



T2000



Material

Hinge: stainless steel, AISI 304, polished.
Cover: aluminium, alumite.

Technical Notes

For door thickness 4 to 6mm. For installation dimensions see table below.
a = distance of mounting holes from glass

edge, to ensure smooth door opening.
Please note, you will need to drill holes in the glass in order to fit these hinges.

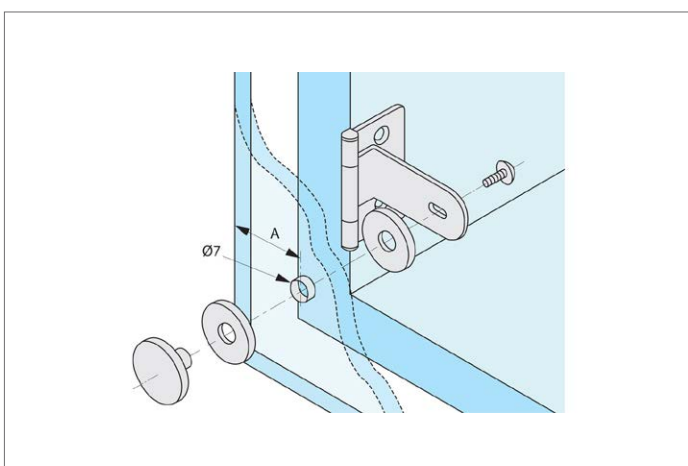
Tips

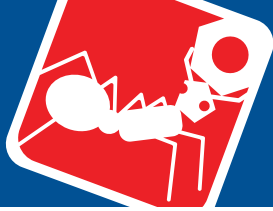
Screws are not included.

Important Notes

For glass thickness:
4mm; a = 19
5mm; a = 18
6mm; a = 17

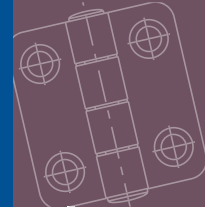
Order No.	Glass thickness mm	Load capacity 2 hinges kg	Weight g
T2000.AC0010	4 to 6	4	15



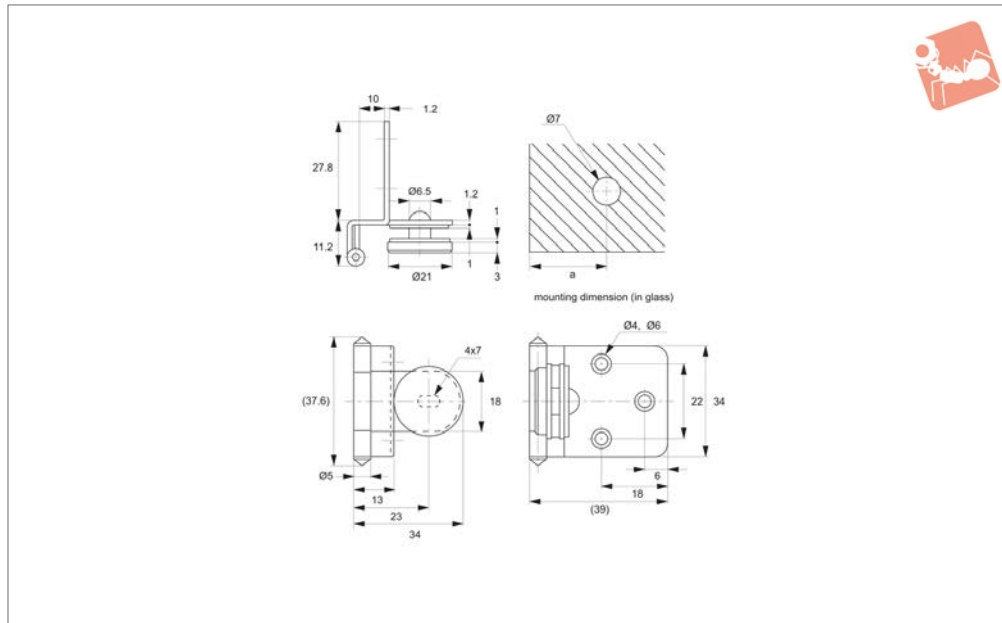


Glass Door Hinges - Half Overlay Type

stainless steel



Hinges



T2020

HINGES

Material

Hinge: stainless steel, AISI 304, polished.
Cover: aluminium, alumite.

Technical Notes

For door thickness 4 to 6mm. For installation dimensions see table below.

a = distance of mounting holes from glass edge, to ensure smooth door opening.
Please note, you will need to drill holes in the glass in order to fit these hinges.

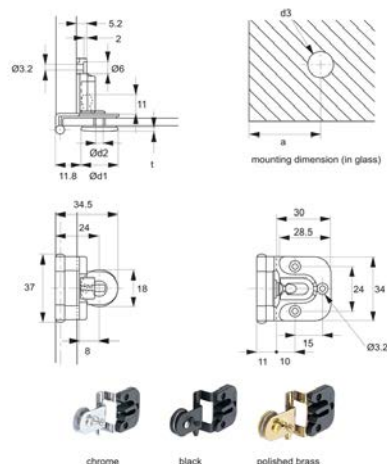
Tips

Screws are not included.

Important Notes

For glass thickness:
4mm; a = 19, overlay = 8
5mm; a = 18, overlay = 7
6mm; a = 17, overlay = 7

Order No.	Glass thickness mm	Load capacity 2 hinges kg	Weight g
T2020.AC0010	4 to 6	4	21

**T2040****Material**

Hinge: steel or stainless steel, AISI 304, with ABS plastic body. Refer to table for plating finish.

Technical Notes

For door thickness 4 to 6mm.

Max. door size - 450w x 700h x 5mm thick.

Max. door weight - 4Kg per hinge pair.

For installation dimensions see table below.

a = distance of mounting holes from glass edge, to ensure smooth door opening.

Plastic body of hinge forms a mechanical catch to hold door in closed position.

Please note, you will need to drill holes in the glass in order to fit these hinges.

Tips

Screws are not included.

Important Notes

For glass thickness:

4mm; a = 19, overlay = 8

5mm; a = 18, overlay = 7

6mm; a = 18, overlay = 6

Order No.	Glass thickness mm	Finish	Load capacity 2 hinges kg	Body type	d ₁	d ₂	d ₃	t	Screw	Weight g
T2040.AC0020	4 to 6	Chrome	4	Steel	20	6.5	7.0	2	M 3,5 x 6	36
T2040.AC0030	4 to 6	Brass	4	Steel	20	6.5	7.0	2	M 3,5 x 6	36
T2040.AC0040	4 to 6	Black	4	Stainless	21	8.0	8.5	3	M 3,0 x 6	32



T2104

Material

Hinge arm: steel, zinc plated, with plastic glass retaining ring.

Hinge mounting plate: steel, zinc plated.

Cover plate for glass: ABS plastic, metal coated.

Cover plate for hinge arm and mounting plate: ABC plastic, chrome plated.

Supplied (per hinge): - 1 x hinge arm. 1 x mounting plate (self-tap screw fixing). 1 x

mounting plate (euro screw fixing). 1 x cover plate for glass (round). 1 x cover plate for glass (oval). 1 x cover plate for arm hinge and mounting plate. 2 x wood screw (4 x 16). 2 x euro screw (6.3 x 16).

Technical Notes

Supplied as single hinge.
incorporated into the hinge is a hydraulic
based „soft close“ device to assist in

controlled closing of door.

Installation notes:

Hinge-on-plate mounting system; plate easily fastened to wooden frame using self-tapping screw (supplied). Requires 26 mm dia. cut out glass for mounting of hinge to glass door - please see installation diagram for details. Hinge is „clip-on“, quick mount/dismount to the mounting plate.

Order No.	Glass thickness mm	Finish	Size
T2104.AW0010	4 to 6	Chrome	25
T2104.AW0020	4 to 6	Gold	25





Hinge arm: steel, zinc plate, with plastic glass retaining ring.
Hinge mounting plate: steel, zinc plated.
Cover plate for glass: ABS plastic, metal coated.
Cover plate for hinge arm and mounting plate: ABC plastic, chrome plated.
Supplied (per hinge): - 1 x hinge arm. 1 x mounting plate (self-tap screw fixing). 1 x

mounting plate (euro screw fixing). 1 x
cover plate for glass (round). 1 x cover
plate for glass (oval). 1 x cover plate for
arm hinge and mounting plate. 2 x wood
screw (4 x 16). 2 x euro screw (6.3 x 16).

Supplied as single hinge.
Incorporated into the hinge is a hydraulic based „soft close“ device to assist in

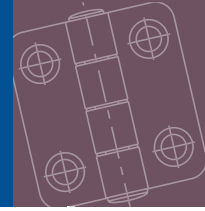
Installation notes:
Hinge-on-plate mounting system; plate easily fastened to wooden frame using self-tapping screws or eurp screw (supplied). Requires 26 mm dia. cut-out glass for mounting of hinge to glass door - please see installation diagram for details. Hinge is „clip-on“, quick mount/dismount to the mounting plate.

T2106.AW0010
T2106.AW0020



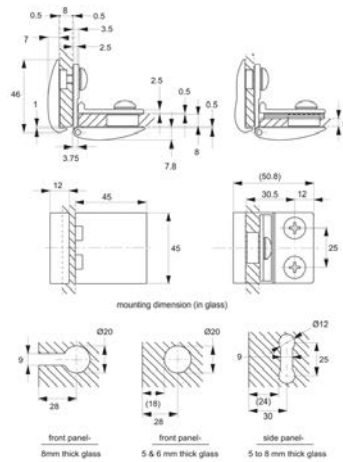
Glass Door Hinges - Glass to Glass

Hinges



T2200

HINGES



Material

Hinge body: brass, in nickel, chrome or gold finish.
Glass adj. roller: polyamide, black.
Bushes & spacers: rubber, black.

Technical Notes

For door thickness 5 to 8mm. Horizontally

adjustable by 2,5mm.

Max. door size-
600w x 700h x 8mm thick

Max. door weight-
15Kg per hinge pair.

Please note, you will need to drill holes in the glass in order to fit these hinges.

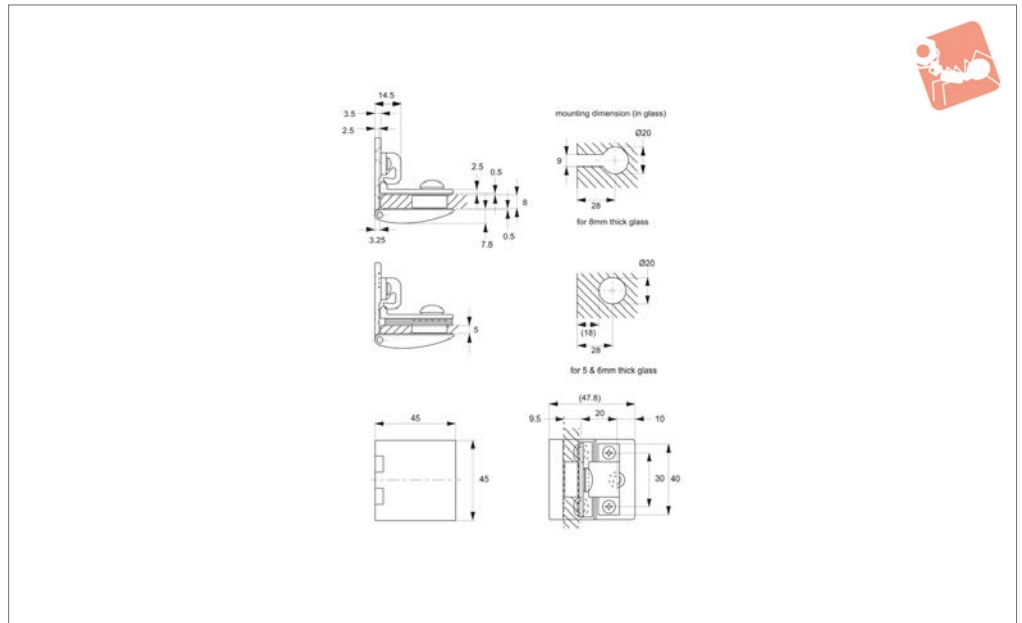
Important Notes

Spacers are supplied to accommodate different glass door thicknesses;
5mm glass use 3 spacers
6mm glass use 2 spacers
8mm glass no spacers required.

Order No.	Glass thickness mm	Finish	Load capacity 2 hinges kg
T2200.AC0010	5 to 8	Satin Nickel	15
T2200.AC0020	5 to 8	Chrome	15
T2200.AC0030	5 to 8	Gold	15



T2220



Material

Hinge body: brass, in nickel, chrome or gold finish.
Glass adj. roller: polyamide, black.
Bushes & spacers: rubber, black.

Technical Notes

For door thickness 5 to 8mm. Horizontally adjustable by 2,5mm, vertical adjustment

2mm.

Max. door size-
600w x 700h x 8 mm thick
Max. door weight-
15Kg per hinge pair.

Plastic body of hinge forms a mechanical catch to hold panel/door in closed position.

Please note, you will need to drill holes in the glass in order to fit these hinges.

Important Notes

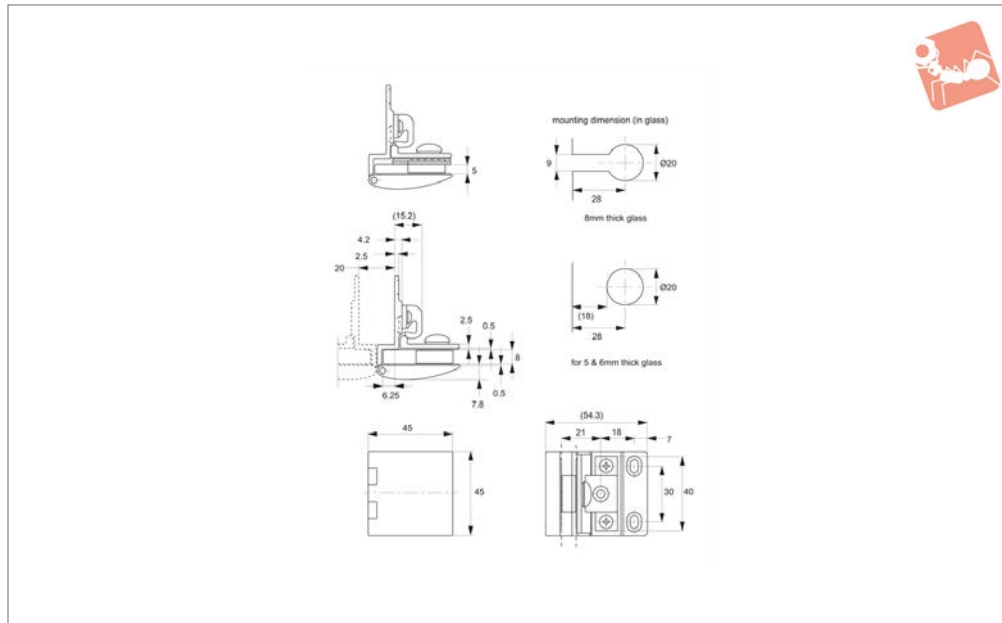
Spacers are supplied to accommodate different glass door thicknesses;
5mm glass use 3 spacers
6mm glass use 2 spacers
8mm glass no spacers required.

Order No.	Glass thickness mm	Finish	Load capacity 2 hinges kg
T2220.AC0010	5 to 8	Satin Nickel	15
T2220.AC0020	5 to 8	Chrome	15
T2220.AC0030	5 to 8	Gold	15



Glass Door Hinges - Overlay Type with catch

Hinges



T2240

Material

Hinge body: brass, in nickel, chrome or gold finish.
Glass adj. roller: polyamide, black.
Bushes & spacers: rubber, black.

Technical Notes

6mm overlay. For door thickness 5 to 8mm.
Horizontally adjustable by 2,5mm, vertical

adjustment 2mm.

Max. door size - 600w x 700h x 8mm thick.
Max. door weight - 15Kg per hinge pair.
Plastic body of hinge forms a mechanical catch to hold panel/door in closed position.
Please note, you will need to drill holes in the glass in order to fit these hinges.

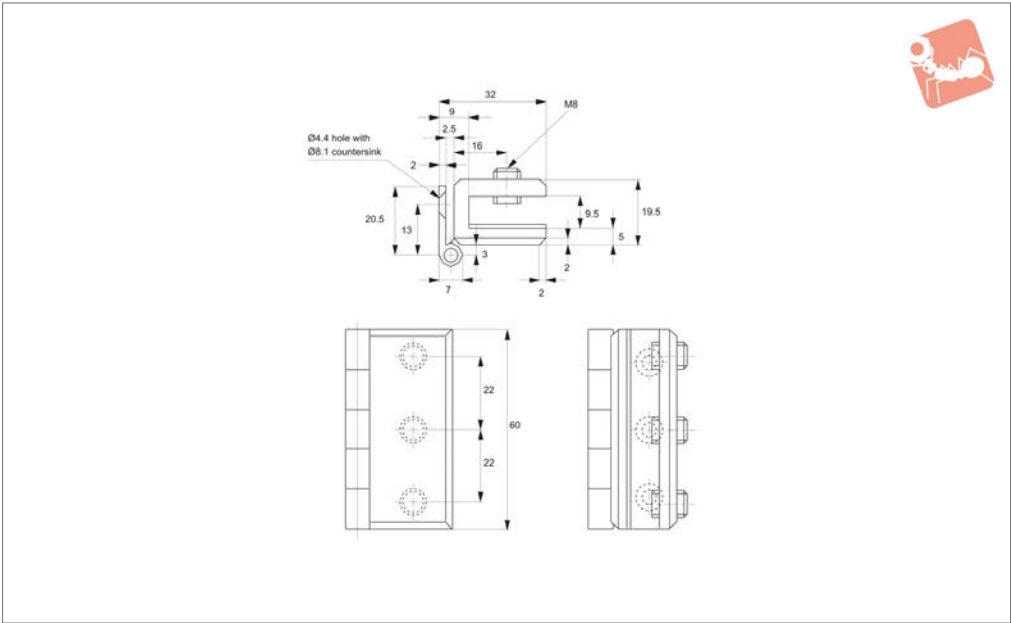
Important Notes

Spacers are supplied to accommodate different glass door thicknesses;
5mm glass use 3 spacers
6mm glass use 2 spacers
8mm glass no spacers required.

Order No.	Glass thickness mm	Finish	Load capacity 2 hinges kg
T2240.AC0010	5 to 8	Satin Nickel	15
T2240.AC0020	5 to 8	Chrome	15
T2240.AC0030	5 to 8	Gold	15



T2260



Material Body: stainless steel, AISI 304, polished	Max. door size- 450w x 1300h x 8mm thick.	Three grub screws hold and clamp glass in place.
Technical Notes For door thicknesses 4 to 8mm.	Important Notes No holes required in glass for installation.	

Order No.	Glass thickness mm	Finish
T2260.AC0010	4 to 8	Stainless

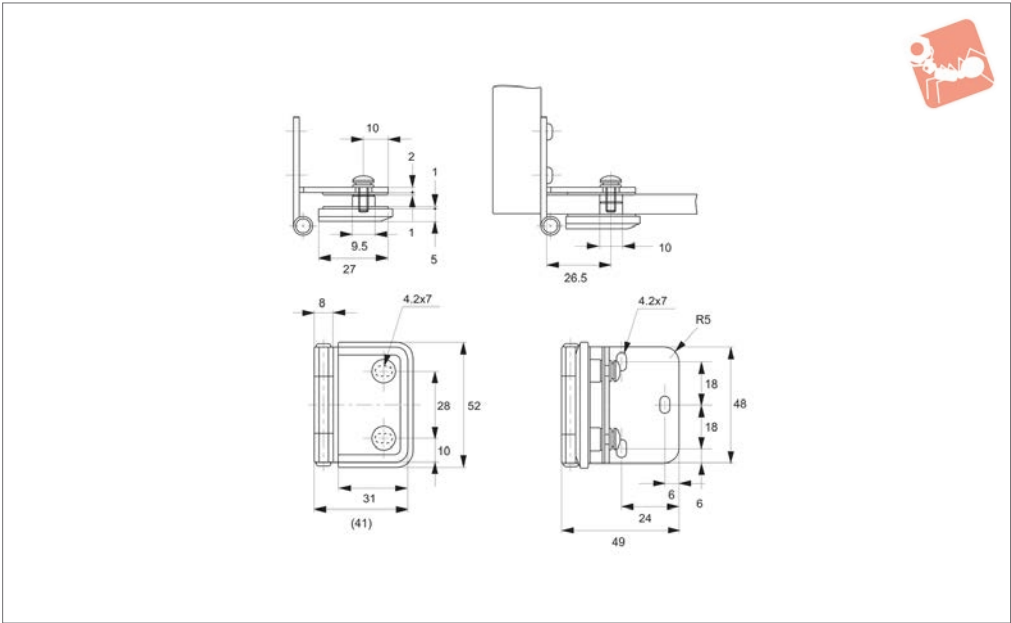


Hinges

T2280



T2300



Material

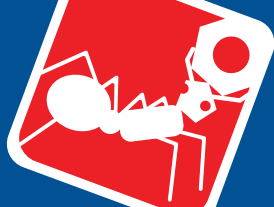
Hinge body: stainless steel, AISI 304, polished.
Cover plate: zinc alloy, chrome plated.

Technical Notes

For door thicknesses 5 to 8mm.
Max. door size - 650w x 700h x 8mm thick.
Max. door weight - 12Kg per hinge pair.

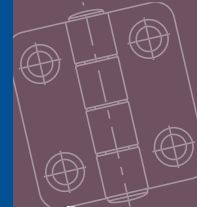
Please note, you will need to drill holes in the glass in order to fit these hinges.

Order No.	Glass thickness mm	Finish	Load capacity kg
T2300.AC0010	5 to 8	Stainless	12

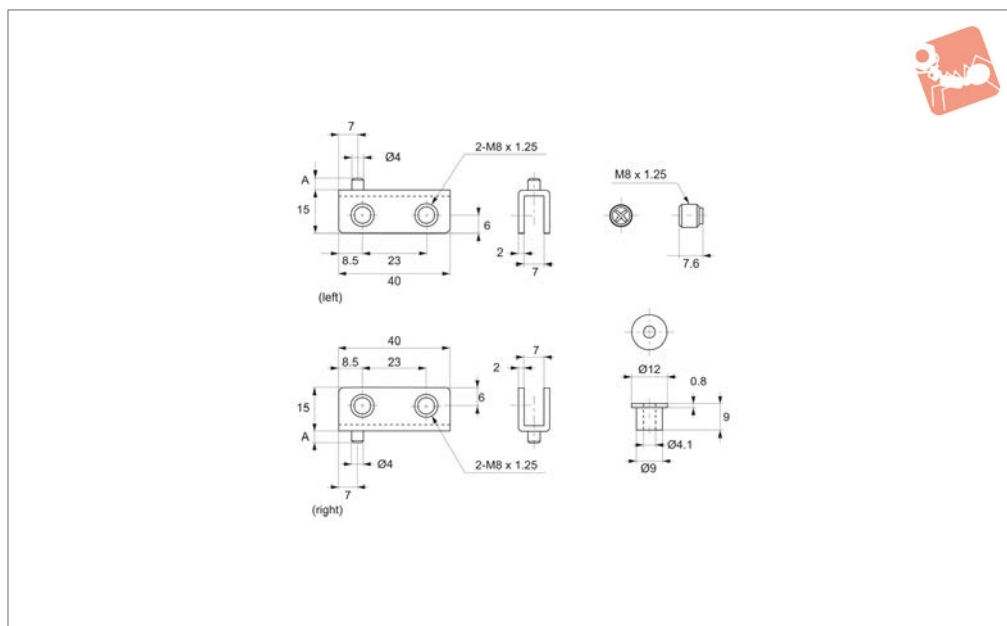


Glass Door Hinge - Inset Type

steel



Hinges



T2400

HINGES

Material

Hinge Body: Steel, black finish
Support: Polypropylene (PP), black finish
Screw: Steel, black finish
Socket: Polyamide (PA), black finish

Technical Notes

Please use in pairs. Can not be used sepe-

rately.

Left: For left-lower/right-upper
Right: For right-lower/left-upper

Door width: Max. 450

Door Height: Max. 700

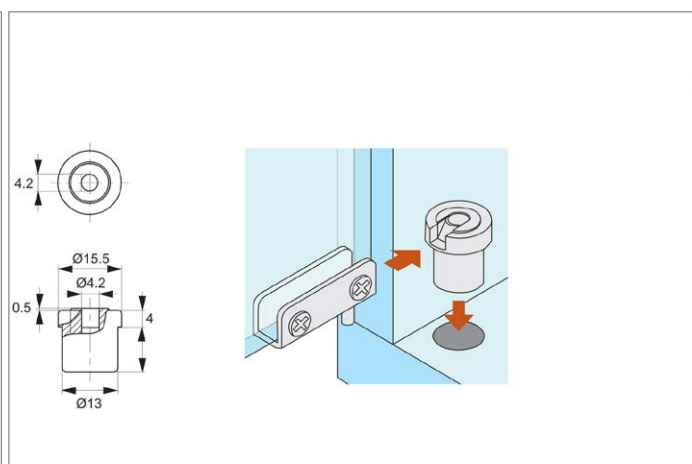
Glass Thickness: 4,5

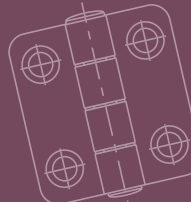
Door Weight: Max. 4kg/pair

Tips

T2400.AW0010 and T2400.AW0020 should be used with the socket.

Order No.	Type	a	Weight g
T2400.AW0010	Right	4	25.0
T2400.AW0020	Left	4	25.0
T2400.AW0110	Right	9	25.5
T2400.AW0120	Left	9	25.5
T2400.AW0990	-	-	5

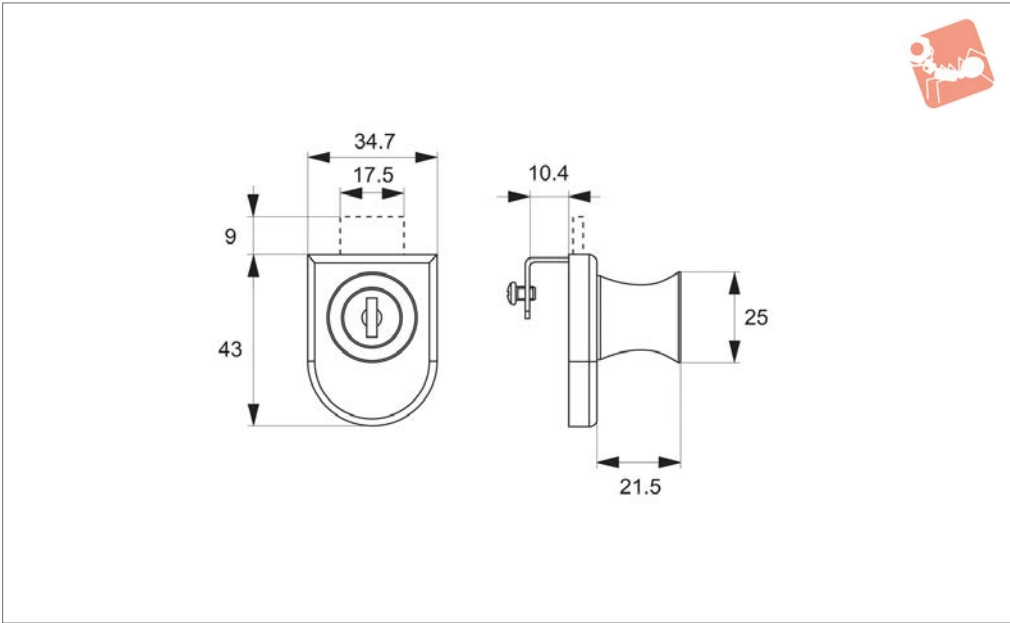




HINGES



T4101



Material

Zinc alloy, Din EN1774 ZnAl4Cu1

glass cabinets and showcases.

Important Notes

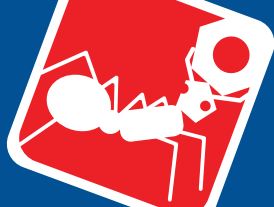
Easy installation, lock is clamped to edge of glass via a grub screw.

Also supplied with catch plate.

Technical Notes

To suit glass from 4 - 8mm thick. For use in

Order No.	Glass thickness mm min.	Glass thickness mm max.	Key type
T4101.AW0010	4	8	Keyed alike



Glass Door Hinges Selection Chart

Glass Door Fittings

The Wixroyd range of glass door hinges are intended for the mounting of smaller doors and panels on cabinets and enclosures, typically their maximum load capacity is 4 Kg per hinge pair. Some of our larger hinges have a capacity of upto 12-15 Kg/pair.



Wixroyd product no.	Max. glass thickness (mm)	Max. load capacity per pair (Kg)	Max. door/ panel size mm (subj. to max. load)	Requires mounting holes cut in glass
T2000	4 to 6	4	-	Yes
T2030	4 to 6	4	450 x 700	Yes
T2220	5 to 8	15	600 x 700	Yes
T2300	5 to 8	12	650 x 700	Yes
T2102	4 to 6	8	500 x 600	Yes

Inset type hinges

Inset hinges are mounted on the inside of the cabinet frame, and are used for hanging doors/panels flush to the frame of the cabinet. Requires mounting holes to be cut into the glass.



Wixroyd product no.	Max. glass thickness (mm)	Max. load capacity per pair (Kg)	Max. door/ panel size mm (subj. to max. load)	Requires mounting holes cut in glass
T2240	5 to 8	15	600 x 700	Yes
T2106	4 to 6	8	500 x 600	Yes

Overlay hinges

Overlay hinges are mounted to the inside of the cabinet frame, with the complete hinge profile resting on the cabinet frame. The door/panel is hung proud of the cabinet frame. Requires mounting holes to be cut into the glass.



Wixroyd product no.	Max. glass thickness (mm)	Max. load capacity per pair (Kg)	Max. door/ panel size mm (subj. to max. load)	Requires mounting holes cut in glass
T2020	4 to 6	4	-	Yes
T2040	4 to 6	4	450 x 700	Yes
T2104	4 to 6	8	500 x 600	Yes

Half overlay hinges

Half overlay hinges are mounted to the inside of the cabinet frame, with half of the hinge profile resting on the cabinet frame. The door/panel is hung proud of the cabinet frame. Requires mounting holes to be cut into the glass.



Wixroyd product no.	Max. glass thickness (mm)	Max. load capacity per pair (Kg)	Max. door/ panel size mm (subj. to max. load)	Requires mounting holes cut in glass
T2200	5 to 8	15	600 x 700	Yes

Glass-to-glass hinges

To hinge glass-to-glass, Tony says use these particular hinges, they provide non-flush hanging of glass to glass. Requires mounting holes to be cut into the glass.



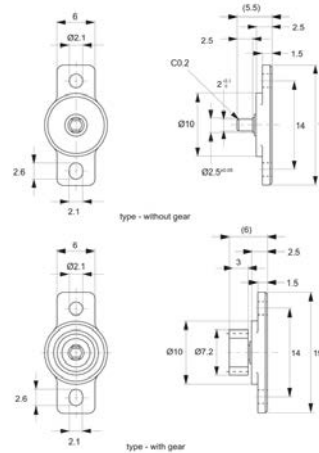
Wixroyd product no.	Max. glass thickness (mm)	Max. load capacity per pair (Kg)	Max. door/ panel size mm (subj. to max. load)	Requires mounting holes cut in glass
T2260	4 to 8	-	450 x 1300	No
T2280	4 to 8	-	400 x 600	No

Set screw mount hinges

These simple to install glass hinges use set screws to clamp the glass, no cutting of the glass is required.



Q3000



Material

Body: polycarbonate
Shaft: polyacetal
Gear: polyacetal

Technical Notes

Gear Specification:
Type - Standard Spur Gear
Tooth - Involute (full)

Module - 0.6mm
Pressure Angle - 20°
Number of Teeth - 10
Pitch Circle Diameter - 6mm
Temperature range 0° to +50°.

Tips

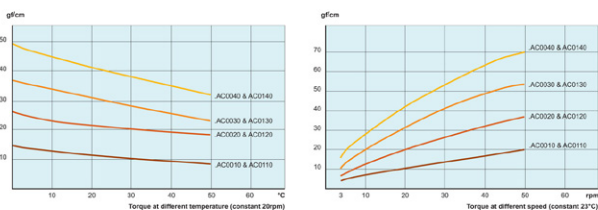
Create smooth movement and dampening in applications such as loading trays, arm

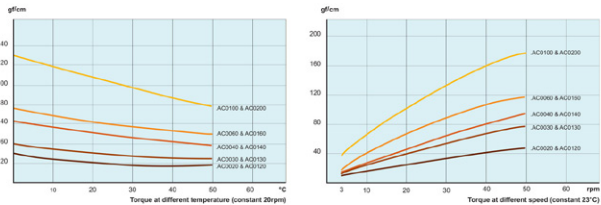
rests and storage compartments.

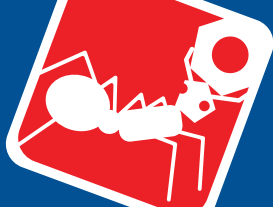
For graphs of torque at varying temperature and speed, see Torque Closing Speed Graphs earlier in this section.

Order No.

Q3000.AC0010
Q3000.AC0020
Q3000.AC0030
Q3000.AC0040
Q3000.AC0110
Q3000.AC0120
Q3000.AC0130
Q3000.AC0140



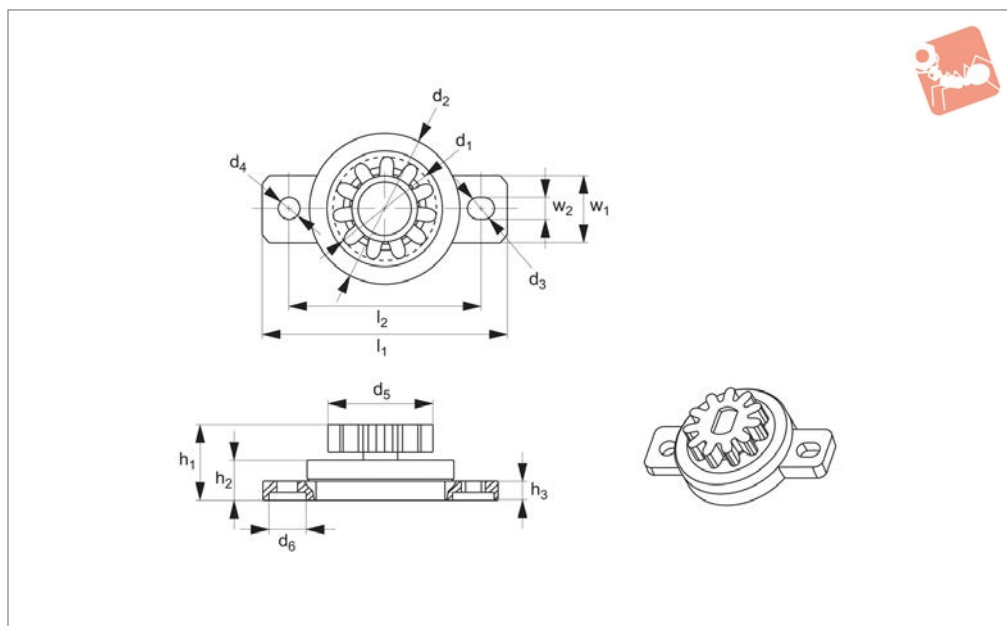




Rotary Dampers

bi-directional - continuous rotation - up to 150gf.

Rotary Dampers



Q3022

ROTARY DAMPERS

Material

Polycetal (POM), Polycarbonate (PC)

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

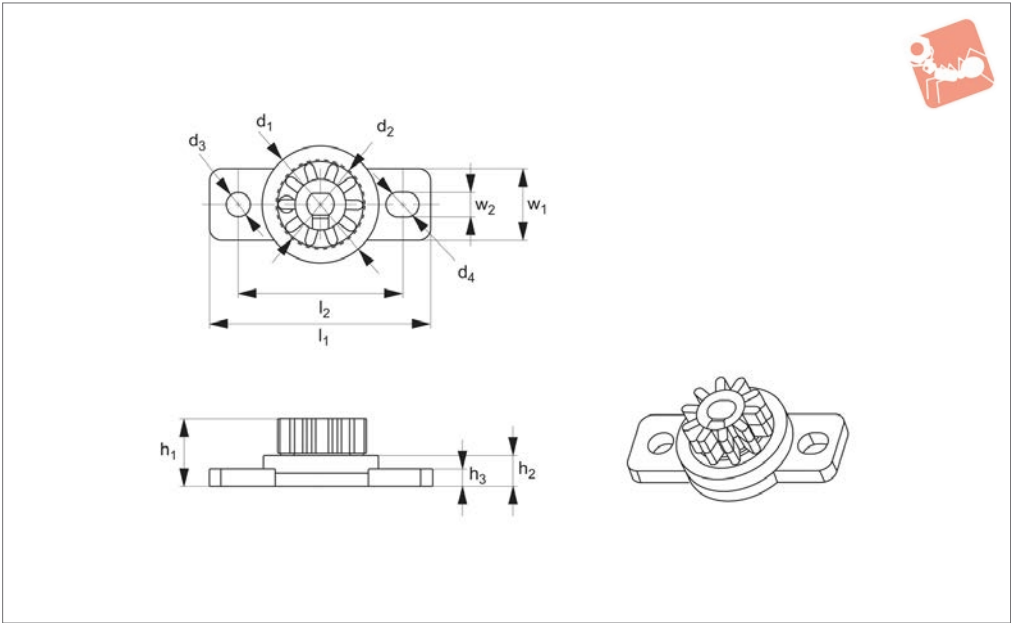
Tips

Create smooth movement and dampening

Order No.	Type		Torque gf·cm	No. of teeth		Gear module		Pitch circle diameter P.C.D			Pressure angle		
Q3022.AC0150	With gear		50-150	11		0.8		8.8			20°		
Order No.	l_1	d_1	d_2	d_3	d_4	d_5	d_6	h_1	h_2	h_3	$\frac{l_2}{\pm 0.1}$	w_1	w_2
Q3022.AC0150	23.9	10.4	15	2.5	2.2	15	4.1	7.55	4.2	1.85	18.9	6.7	2.2



Q3026

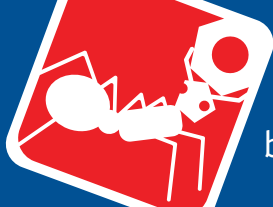


Material
thermoplastic (ABS), Polycetal (POM).

Tips
Create smooth movement and dampening

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

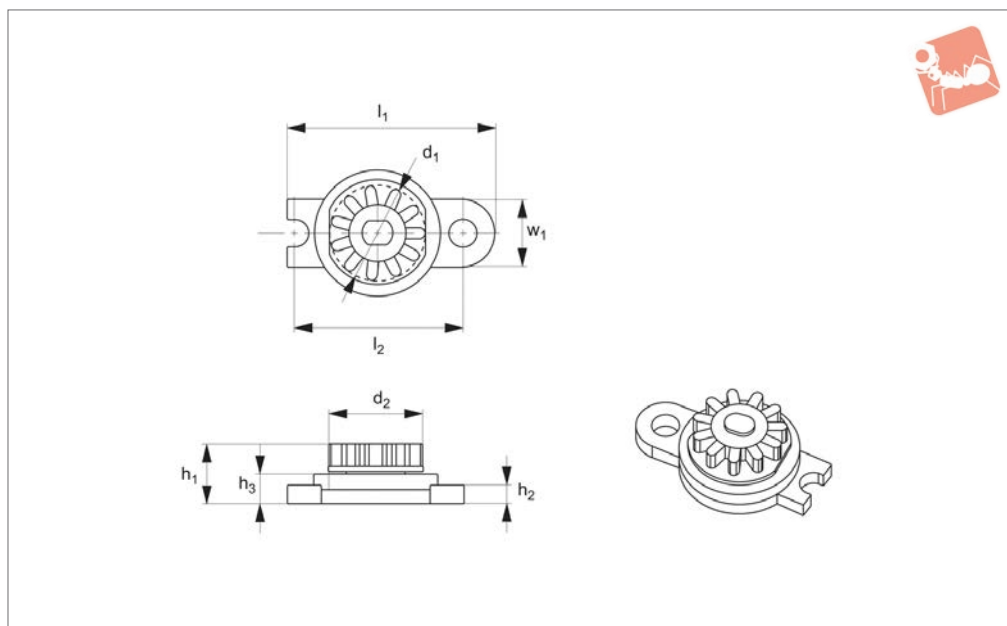
Order No.	Type		Torque gf.cm	No. of teeth	Gear module		Pitch circle diameter P.C.D			Pressure angle	
Q3026.AC0050	With gear		15-50	11	0.6		6			20°	
Order No.	l_1	d_1	d_2	d_3	d_4	h_1	h_2	h_3	l_2	w_1	w_2
Q3026.AC0050	19	10	7.2	2.1	2.5	5.9	2.7	1.5	14	6	2.1



Rotary Dampers

bi-directional - continuous rotation - up to 50gf.cm

Rotary Dampers



Q3027

ROTARY DAMPERS

Material

thermoplastic (ABS), Polycetal (POM).

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

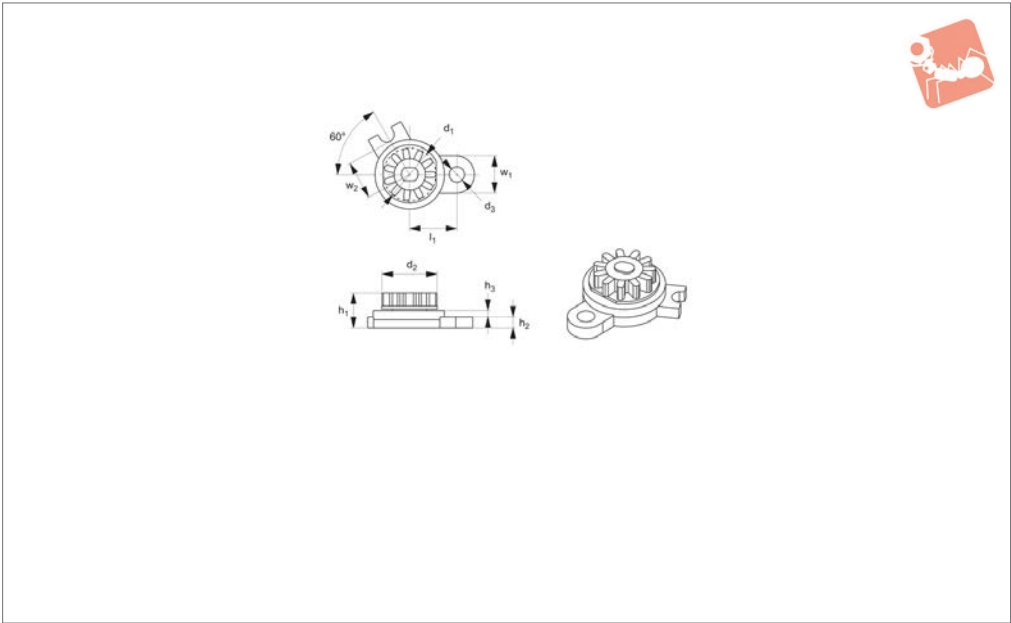
Tips

Create smooth movement and dampening

Order No.	Type	Torque gf.cm	No. of teeth	Gear module	Pitch circle diameter P.C.D			Pressure angle
Q3027.AC0050	With gear	15-50	11	0.6	6.6			20°
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	l_2	w_1
Q3027.AC0050	16.7	7.8	10.2	5	1.5	2.5	13.85	5



Q3028



Material

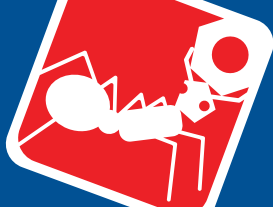
Polycarbonate (PC), polycetal (POM).

Tips

Create smooth movement and dampening

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

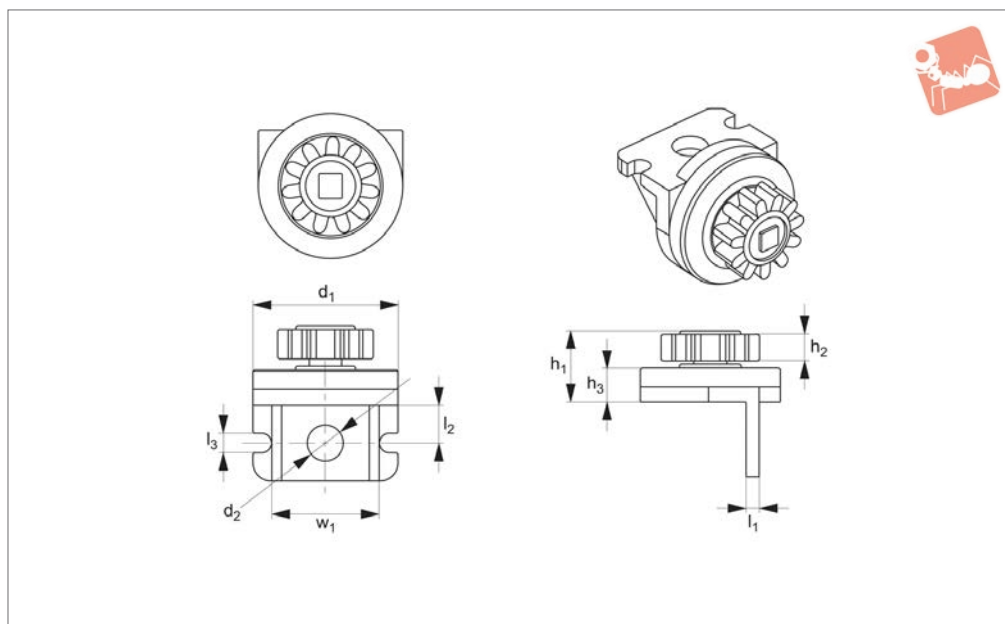
Order No.	Type	Torque gf·cm	No. of teeth	Gear module	Pitch circle diameter P.C.D				Pressure angle	
Q3028.AC0050	With gear	15-50	11	0.6	6.6				20°	
Order No.	l ₁	d ₁	d ₂	d ₃	h ₁	h ₂	h ₃	w ₁	w ₂	Angle
Q3028.AC0050	7	7.8	10.2	2.2	5	2.5	1.5	5.0	5.8	60°



Rotary Dampers

bi-directional - continuous rotation - up to 150gf.

Rotary Dampers



Q3029

ROTARY DAMPERS

Material

thermoplastic (ABS), Polycetal (POM).

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

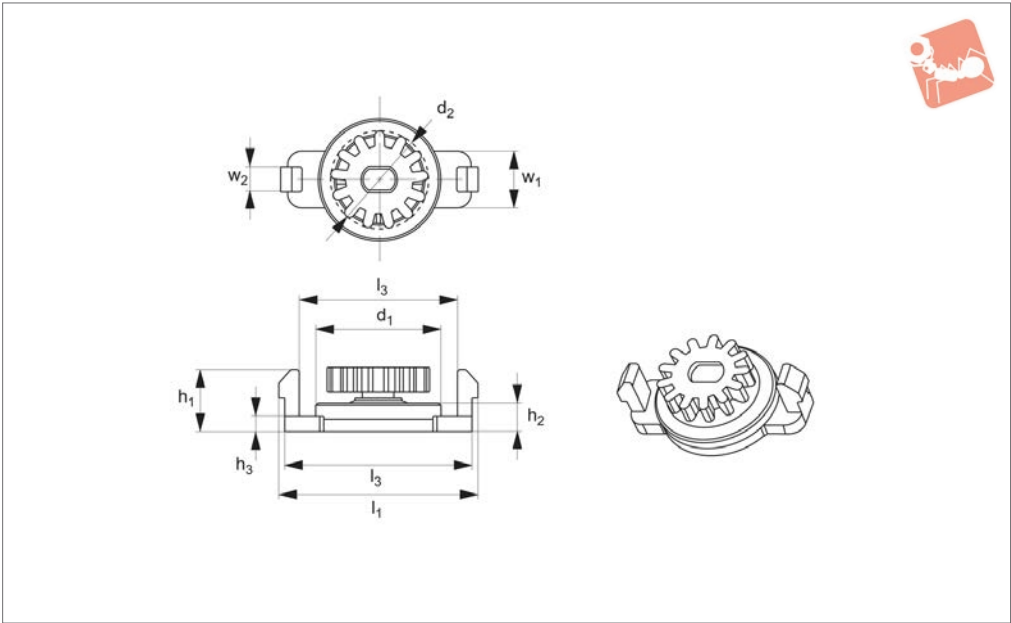
Tips

Create smooth movement and dampening

Order No.	Type	Torque gf·cm	No. of teeth		Gear module	Pitch circle diameter P.C.D		Pressure angle	
Q3029.AC0150	With gear	70-150	11		0.8	8.8		20°	
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	l_2	l_3	w_1
Q3029.AC0150	1.6	15.1	3.9	7.6	3	4.2	3.9	2	11



Q3031



Material

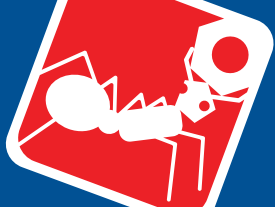
Polycetal (POM), polycarbonate (PC)

Tips

Create smooth movement and dampening

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

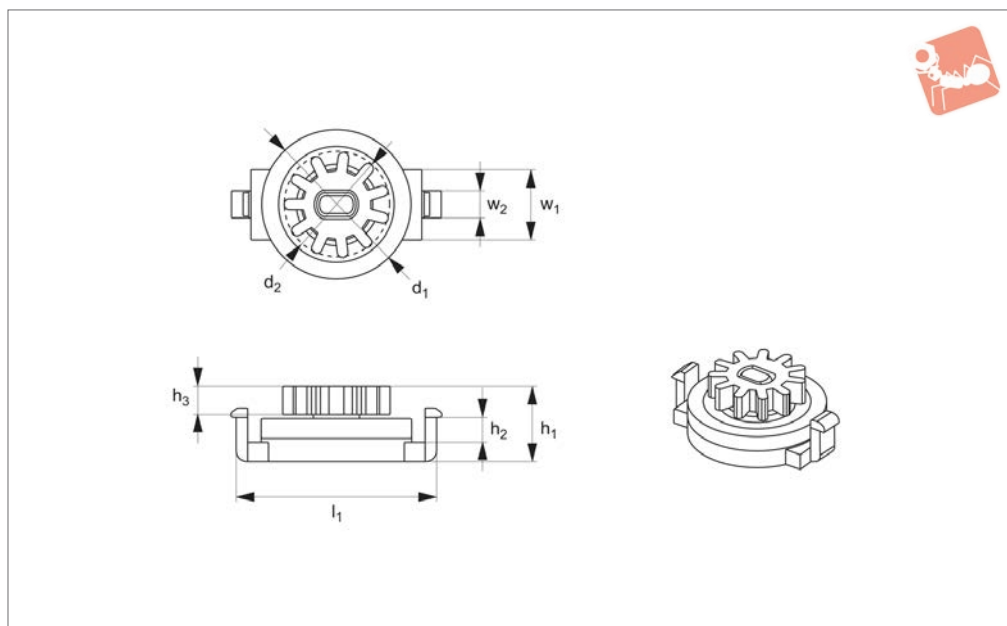
Order No.	Type	Torque gf·cm	No. of teeth	Gear module	Pitch circle diameter P.C.D			Pressure angle		
Q3031.AC0150	With gear	50-150	13	0.8	10.4			20°		
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	l_2	l_3	w_1	w_2
Q3031.AC0150	24	15	12	7.5	4	2.21	22.5	18.7	7	3



Rotary Dampers

bi-directional - continuous rotation - up to 100gf.

Rotary Dampers



Q3032

ROTARY DAMPERS

Material

Polycetal (POM), polycarbonate (PC)

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

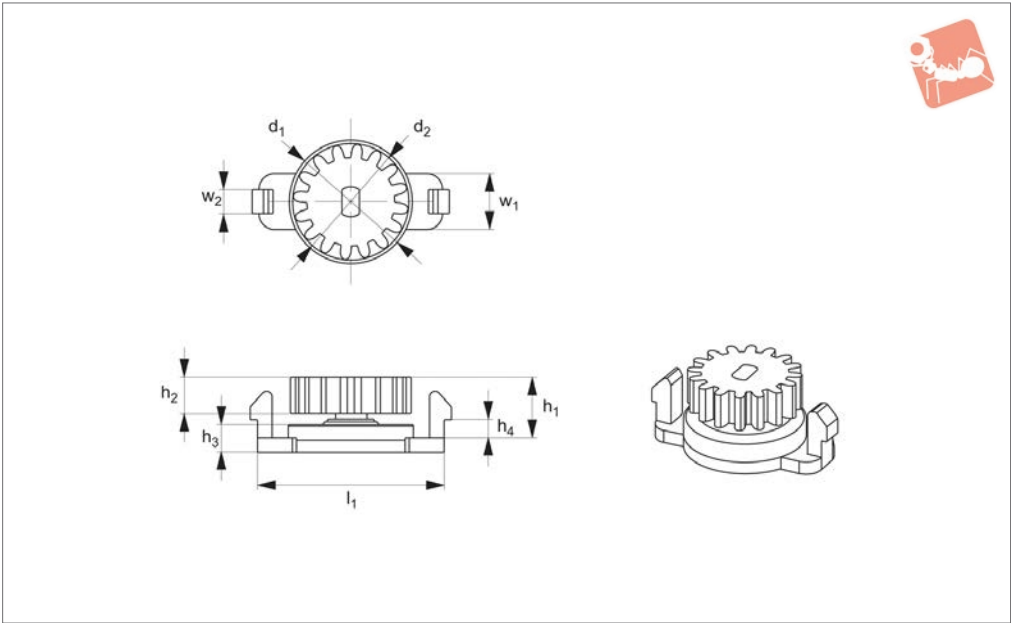
Tips

Create smooth movement and dampening

Order No.	Type	Torque gf·cm	No. of teeth	Gear module	Pitch circle diameter P.C.D			Pressure angle
Q3032.AC0100	With gear	50-100	11	0.8	8.8			20°
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	w_1	w_2
Q3032.AC0100	19.65	15	10.4	7.55	2.52	2.9	7	2.9



Q3033

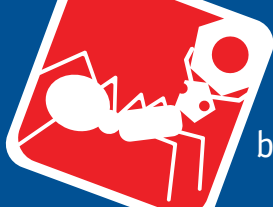


Material
thermoplastic (ABS), Polycetal (POM).

Tips
Create smooth movement and dampening

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

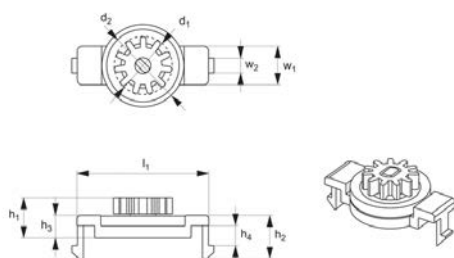
Order No.	Type	Torque gf·cm	No. of teeth		Gear module	Pitch circle diameter P.C.D		Pressure angle	
Q3033.AC0150	With gear	50-150	16		0.8	12.8		20°	
Order No.	l ₁	d ₁	d ₂	h ₁	h ₂	h ₃	h ₄	w ₁	w ₂
Q3033.AC0150	22.5	15	14	9.2	4.5	4	2.2	7.0	3.0



Rotary Dampers

bi-directional - continuous rotation - up to 50gf.cm

Rotary Dampers



Q3036

ROTARY DAMPERS

Material

Polycetal (POM), polycarbonate (PC).

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

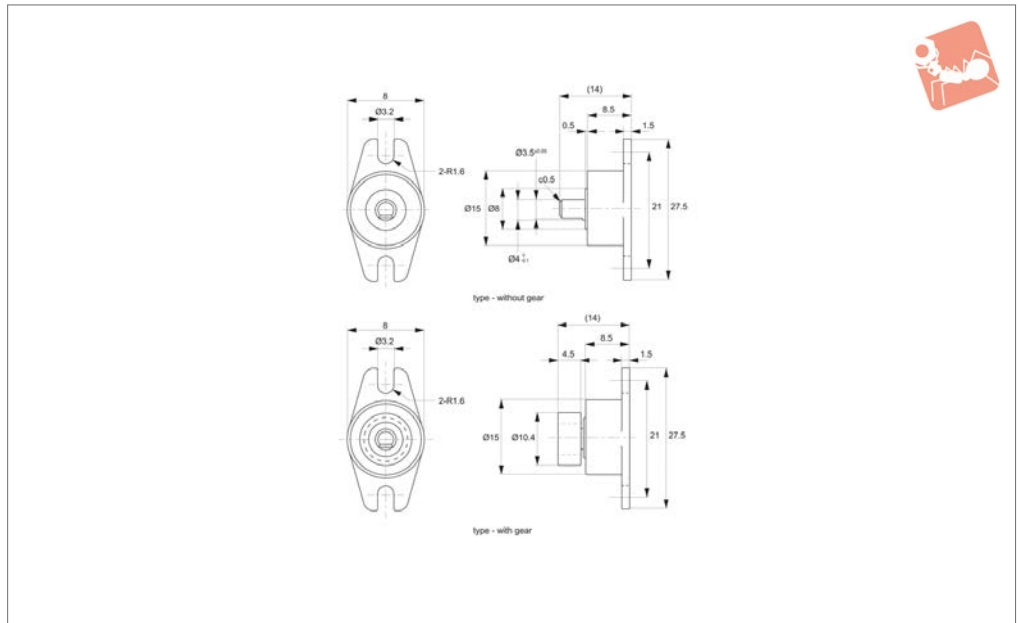
Tips

Create smooth movement and dampening

Order No.	Type	Torque gf.cm	No. of teeth	Gear module	Pitch circle diameter P.C.D		Pressure angle		
Q3036.AC0050	With gear	15-50	11	0.8	8.8		20°		
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	h_4	w_1	w_2
Q3036.AC0050	24.5	15.2	10.4	7.8	8.2	4.3	3.7	7	2.5



Q3040



Material

Body: polycarbonate.
Gear: polyacetal.
Oil: silicone oil.

Technical Notes

Gear specification:
Type - standard spur gear
Tooth - involute (full)
Module - 0.8

Pressure angle - 20°

Number of teeth - 11

Pitch circle diameter - 8.8

Tips

For graphs of torque at varying temperature and speed see torque closing speed graphs.

Important Notes

Rotation speed of 20rpm, at 23°C.
Up to 300gf.cm.

Values ±20%.

Max. rotation speed 50rpm.

Max. cycle rate 10 cycle/min.

Operating temperature, 0° to 50°C.

Design tested to 50,000 cycles.

Meets RoHS standards.

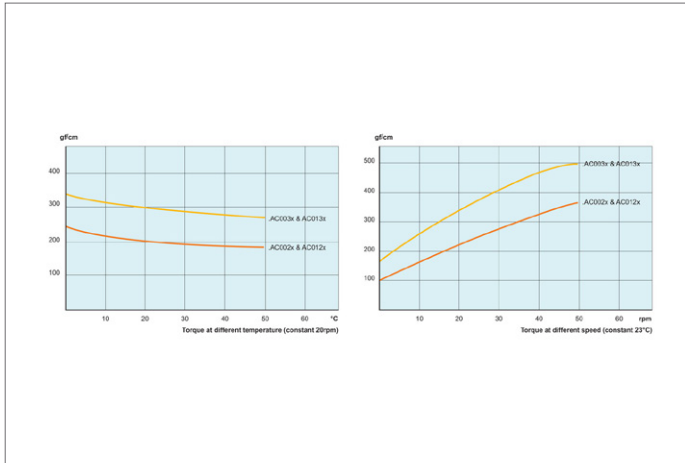
Order No.	Type	Damping direction	Damping torque gf.cm	Shaft material	Weight g
Q3040.AWC0020	Without Gear	Bi-directional	200	Polyacetal	2.1
Q3040.AW0030	Without Gear	Bi-directional	300	Polyacetal	2.1
Q3040.AW0120	With Gear	Bi-directional	200	Polyacetal	2.4
Q3040.AW0130	With Gear	Bi-directional	300	Polyacetal	2.4
Q3040.AW0031	Without Gear	Clockwise	300	Metal	3.2
Q3040.AW0131	With Gear	Clockwise	300	Metal	3.5
Q3040.AW0032	Without Gear	Anti-clockwise	300	Metal	3.2
Q3040.AW0132	With Gear	Anti-clockwise	300	Metal	3.5

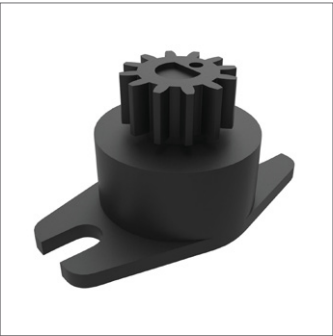


Rotary Dampers

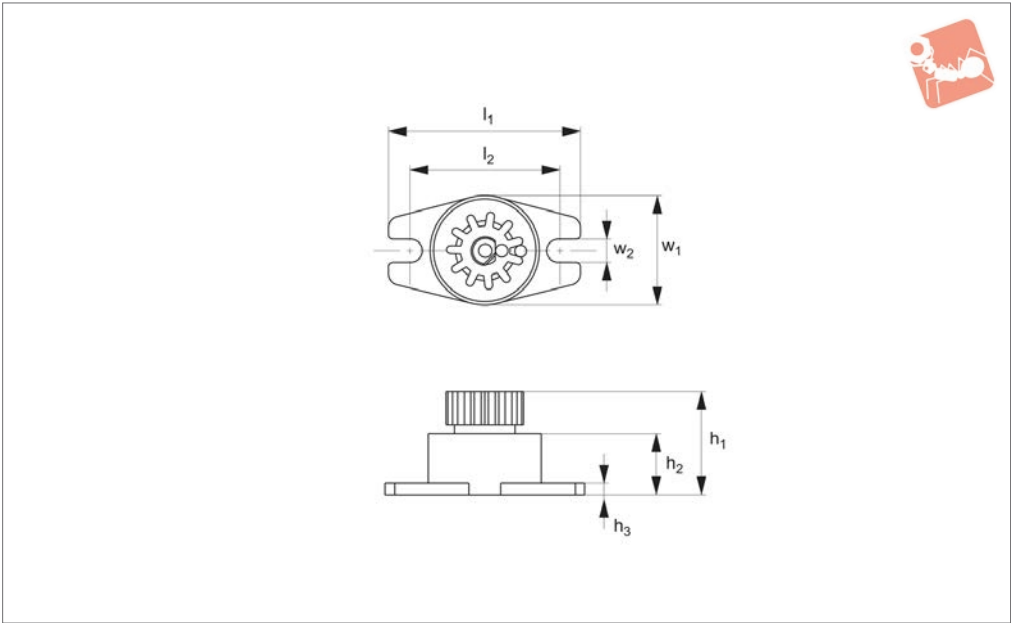
uni- and bi-directional - continuous rotation

Rotary Dampers





Q3042



Material

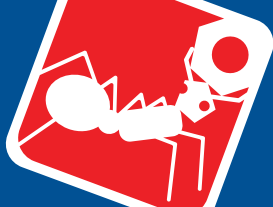
Polycetal (POM), polycarbonate (PC)

Tips

Create smooth movement and dampening

in applications such as loading trays, arm rests and storage compartments. Subject to minimum order quantity.

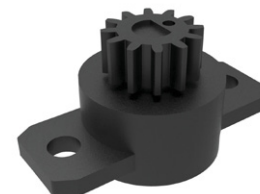
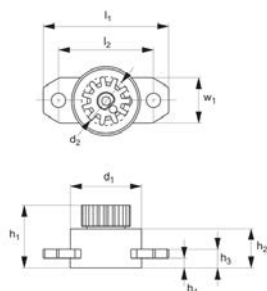
Order No.	Damping direction	Torque gf-cm	No. of teeth	Gear module	Pitch circle diameter P.C.D	Pressure angle	l_1	h_1	h_2	h_3	w_1	w_2
Q3042.AC0400	Anti-clockwise	80-120	11	0.6	8.8	20	27.5	14	8.5	1.5	15	3.2
Q3042.AC0410	Clockwise	80-120	11	0.6	8.8	20	27.5	14	8.5	1.5	15	3.2
Q3042.AC0420	Anti-clockwise	60-80	11	0.6	8.8	20	27.5	14	8.5	1.5	15	3.2
Q3042.AC0430	Clockwise	60-80	11	0.6	8.8	20	27.5	14	8.5	1.5	15	3.2



Rotary Dampers

bi-directional - continuous rotation - up to 400gf.

Rotary Dampers



Q3044

ROTARY DAMPERS

Material

Thermoplastic (ABS), polycetal (POM).

Expected life span greater than 50k cycles.

rests and storage compartments. Subject to minimum order quantity.

Technical Notes

Temperature range +30 -80°C.

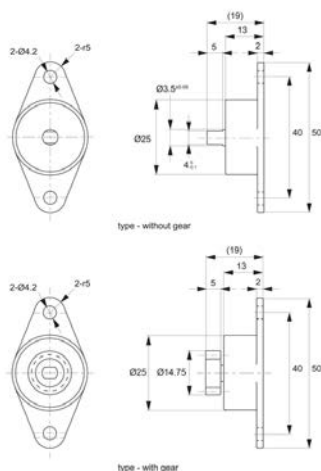
Tips

Create smooth movement and dampening in applications such as loading trays, arm

Order No.	Type	Torque gf·cm	No. of teeth		Gear module	Pitch circle diameter P.C.D		Pressure angle	
Q3044.AC0400	With gear	100-400	11		0.8	8.8		20°	
Order No.	l_1	d_1	d_2	h_1	h_2	h_3	h_4	l_2	w_1
Q3044.AC0400	27.5	15	10.4	13.6	8.6	4	2	21	10



Q3060



Material

Body: polycarbonate

Shaft: polyacetal

Gear: polyacetal

Technical Notes

Gear specification:

Type - Modified Spur Gear

Tooth - Involute (full)

Module - 1.0mm

Pressure Angle - 20°

Number of Teeth - 12

Pitch Circle Diameter - 12mm

Temperature Range 0° to +50°C.

Tips

For graphs of torque at varying temperature and speed, see Torque Closing Speed Graphs earlier in this section.

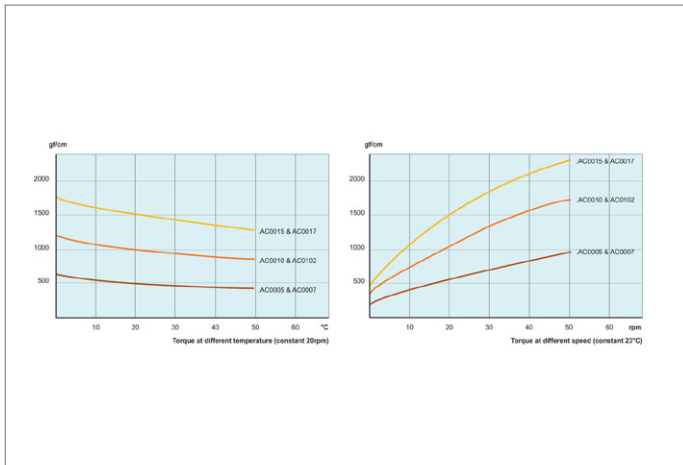
Order No.	Type	Damping direction	Torque gf-cm	Shaft type	Weight g
Q3060.AC0005	w/o Gear	Clockwise	500	Polyacetal	11.8
Q3060.AC0006	w/o Gear	Anti-Clockwise	500	Polyacetal	11.8
Q3060.AC0007	w/o Gear	Bi-Directional	500	Polyacetal	8.3
Q3060.AC0010	w/o Gear	Clockwise	1000	Polyacetal	11.8
Q3060.AC0011	w/o Gear	Anti-Clockwise	1000	Polyacetal	11.8
Q3060.AC0012	w/o Gear	Bi-Directional	1000	Polyacetal	8.3
Q3060.AC0015	w/o Gear	Clockwise	1500	Polyacetal	11.8
Q3060.AC0016	w/o Gear	Anti-Clockwise	1500	Polyacetal	11.8
Q3060.AC0017	w/o Gear	Bi-Directional	1500	Polyacetal	8.3
Q3060.AC0405	with Gear	Clockwise	500	Polyacetal	11.8
Q3060.AC0406	with Gear	Anti-Clockwise	500	Polyacetal	11.8
Q3060.AC0407	with Gear	Bi-Directional	500	Polyacetal	8.3
Q3060.AC0410	with Gear	Clockwise	1000	Polyacetal	11.8
Q3060.AC0411	with Gear	Anti-Clockwise	1000	Polyacetal	11.8
Q3060.AC0412	with Gear	Bi-Directional	1000	Polyacetal	8.3
Q3060.AC0415	with Gear	Clockwise	1500	Polyacetal	11.8
Q3060.AC0416	with Gear	Anti-Clockwise	1500	Polyacetal	11.8
Q3060.AC0417	with Gear	Bi-Directional	1500	Polyacetal	8.3



Rotary Dampers

uni- and bi-directional - continuous rotation - up to

Rotary Dampers





Product selection chart

				Rotary dampers												
	Part no.	Damping direction	Torque gf.cm	Torque gf.cm												
				20	40	60	80	100	200	300	400	500	1000	1500		
	Q3000	Two way	10 - 40	20	40											
	Q3020	Two way	20 - 100	20	40	60	80	100								
	Q3022	Two way	50 - 150			60	80	100								
	Q3024	Two way	50 - 150			60	80	100								
	Q3026	Two way	15 - 50	20	40											
	Q3027	Two way	15 - 50	20	40											
	Q3028	Two way	15 - 50	20	40											
	Q3029	Two way	70 - 150			60	80	100								
	Q3031	Two way	50 - 150			60	80	100								
	Q3032	Two way	50 - 100			60	80	100								
	Q3033	Two way	50 - 150			60	80	100								
	Q3036	Two way	15 - 50	20	40											
	Q3040	One/two way	200 - 300						200	300						
	Q3042	Two way	100 - 400						100	200	300	400				
	Q3044	Two way	100 - 400						100	200	300	400				
	Q3060	One/two way	500 - 1500										500	1000	1500	



Rotary Dampers

torque closing speed graphs

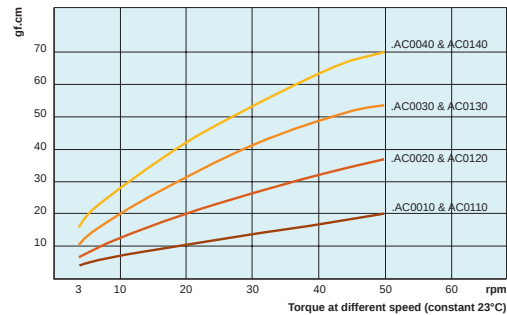
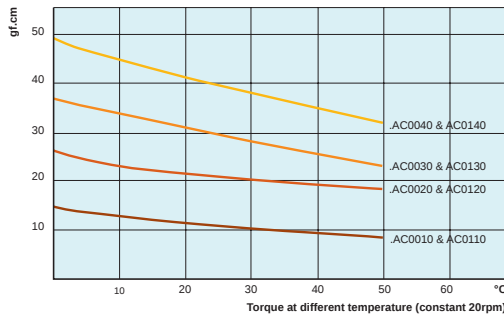
Rotary & Torque Dampers

Follow the torque calculation formula opposite and utilise the following torque closing speed graphs to ensure the selected rotary damper best suits your application.

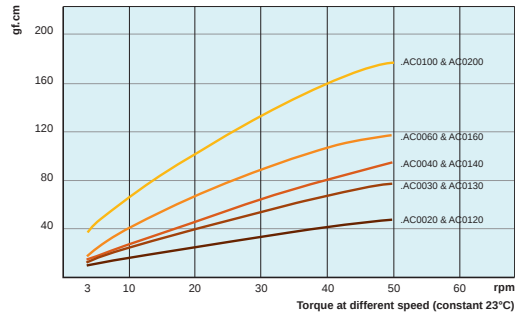
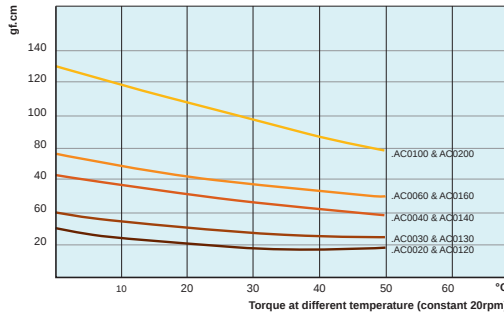
Torque closing speed graphs

Torque graphs for temperature and speed

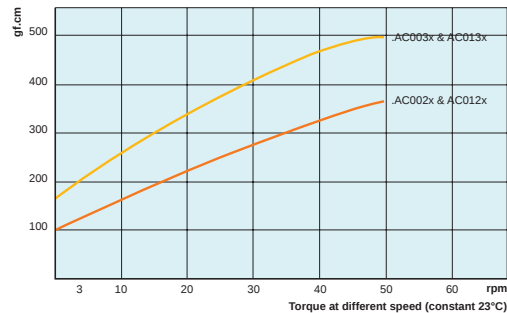
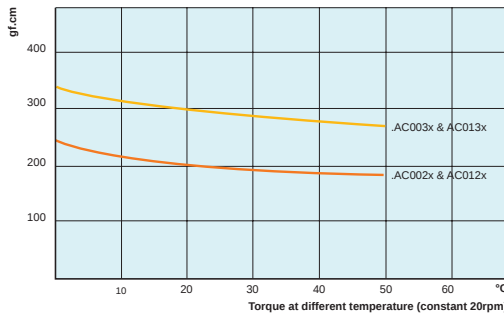
Q3000



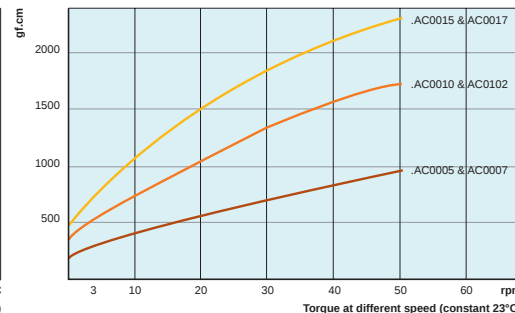
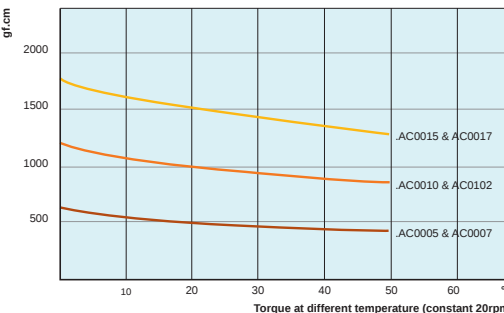
Q3020



Q3040



Q3060





Solution for controlled opening and closing motion

Wixroyd rotary dampers offer controlled opening and closing of lids, drawers, covers and much more, they provide a range of solutions for a variety of applications creating smooth movement and function.

Though unnoticed in many applications, rotary dampers are a vital part of many products bringing quality, safety and durability. Rotary dampers provide quality movement enhancing both touch and feel. Available in unidirectional (single) dampening, or bi-directional (double) version. Also available with or without gears.



Rotary dampers

Rotary dampers utilise the principle of fluid resistance to reduce the speed of moving parts. The oil viscosity is utilised to provide the "braking force" of the damper. The torque or "braking force" can be adjusted by changing the viscosity of the oil. The advantages of the rotary type dampers are their compact size.

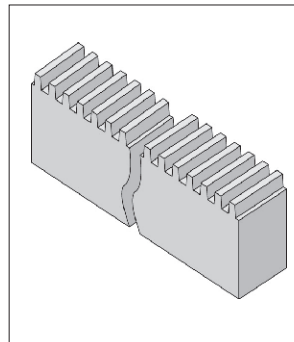
Applications

- Loading trays for CD, DVD, VCR, MD players.
- Arm rests, ashtrays, center consoles, glove boxes, handles and storage compartments in passenger vehicles.
- Camcorders, cellular phones and small personal devices.

Operating principle

Rotary dampers utilise the movement of fluid forced from one chamber to another via a rotor. Dampening speed is dependent upon the viscosity of the fluid and the diameter of the fluid aperture.

Through the use of toothed plastic rack no. Q3150, rotary dampers with gears can be used to dampen on a linear plane rather than the normal dampening directly at the shaft.



Part no.	Q3200 to Q3260
Max. speed	50rpm
Max. cycle rate	10 cycles/min
Nominal torque rating	At 20rpm, 23°C (73°F)
Operating temperature	0 to 50°C (32 - 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)

Torque calculation

Note

Dampening direction is determined whilst looking directly onto the output shaft.

Important

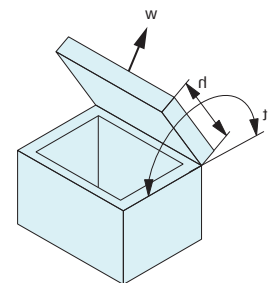
Avoid side loading of the disk damper output shaft in order to maximise effectiveness.

To calculate the torque for your application, the following measurements are necessary.

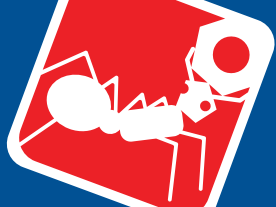
$$t \text{ (torque)} = w \times 0.5 \times h$$

h = length from pivot point to end of lid (cm)
w = weight of the lid (Kg)

Torque force stated per product (see individual product pages), is the maximum torque to which the specified part can be exposed before the dampening force yields and hence dampening is overcome.



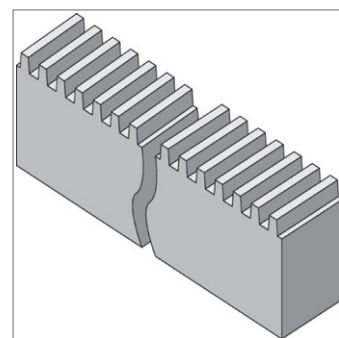
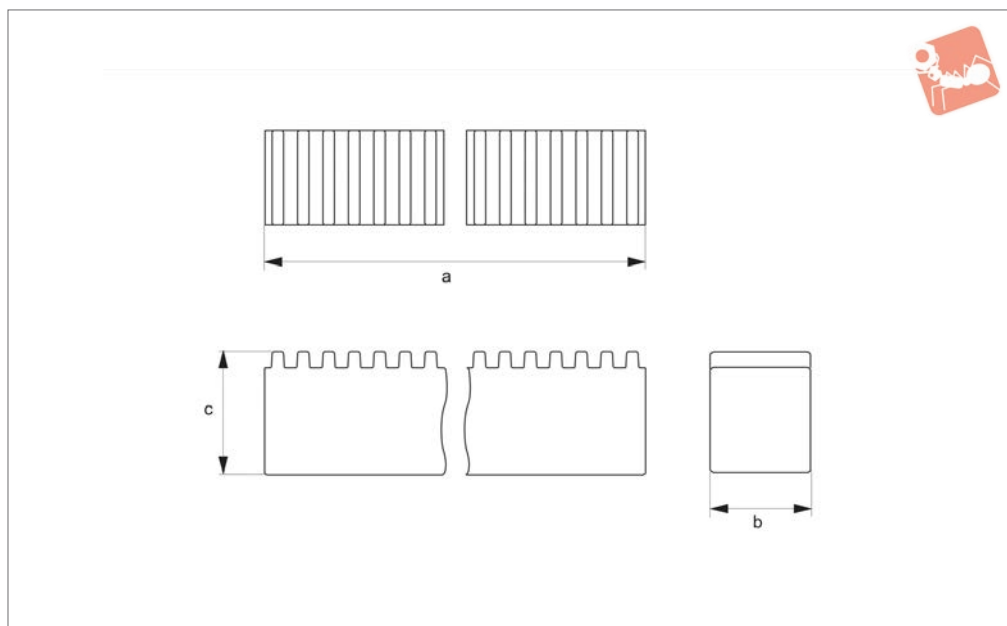
Important note: Once calculation has been made choose a disk damper from our range which can accommodate the newly calculated torque of the application. Use the damper closing speed graphs opposite to confirm that the rpm given at the corresponding torque value matches the desired lid closing speed. If the desired rpm is beyond the capacity of the selected damper, then select another damper with a higher torque rating and re-test. If the rpm is too slow select another damper with a lower torque rating and re-test.



Toothed Rack - Module 0,5 to 1,0

for use with rotary dampers Q3000 to Q3060

Rotary Dampers



Q3150

ROTARY DAMPERS

Material

Plastic

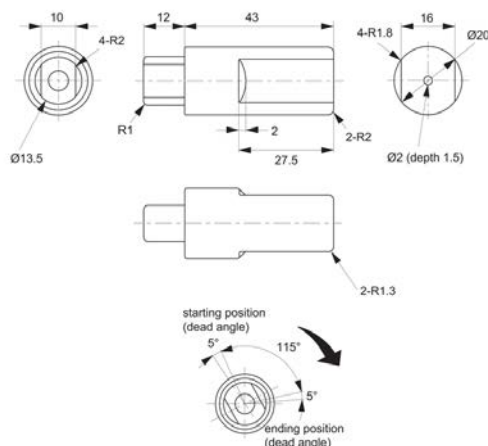
Technical Notes

For use with our geared rotary dampers Q3000 to Q3060.

Order No.	Type	Module	a	b	c
Q3150.AC0052	Rigid	0.5	250	4	6.0
Q3150.AC0062	Rigid	0.6	250	4	6.0
Q3150.AC0082	Rigid	0.8	250	6	8.0
Q3150.AC0102	Rigid	1.0	250	10	10.0



Q0400



Material

Body: stainless steel, AISI 304.
Shaft: PBT plastic. White for anti-clockwise version, grey for clockwise version. Different torque forces marked by colour coded dot on shaft.

Technical Notes

115° operating angle, additional 5° dead

angle at start/end position.
Tested to over 100,000 cycles.
Temperature range 0° to 40°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

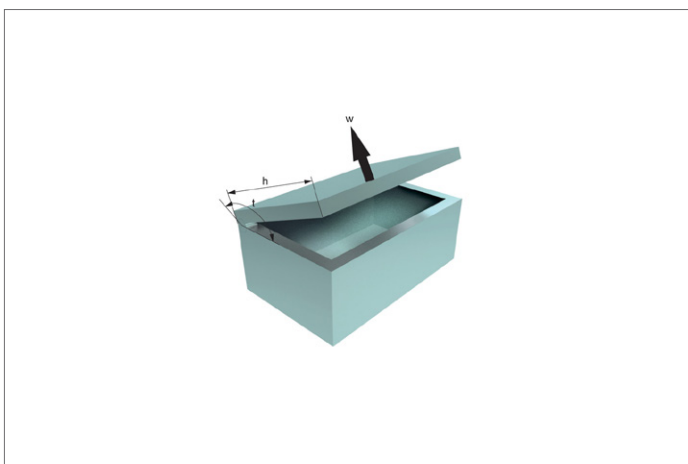
Important Notes

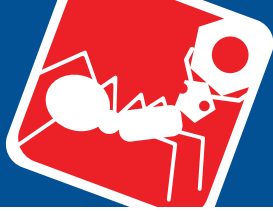
Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.

W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

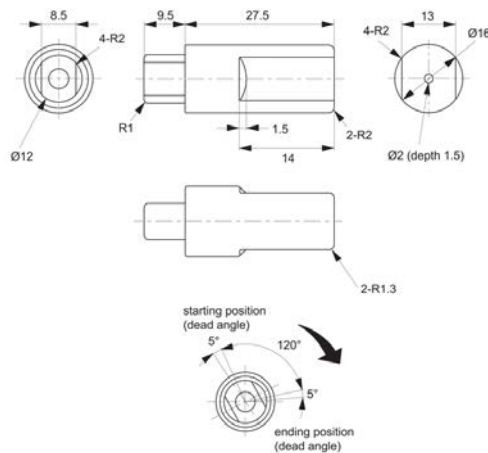
Order No.	Type	Shaft colour	Operating angle	Torque kgf/cm	Torque colour marking	Weight g
Q0400.AC0010	Anti-Clockwise	White	115°	15 - 25	Blue	38
Q0400.AC0020	Anti-Clockwise	White	115°	25 - 35	Red	38
Q0400.AC0110	Clockwise	Grey	115°	15 - 25	Blue	38
Q0400.AC0120	Clockwise	Grey	115°	25 - 35	Red	38





Torque Dampers - Compact uni-directional - 120° operating angle

Torque Dampers



Q0420

TORQUE DAMPERS

Material

Body: stainless steel, AISI 304.
Shaft: PBT plastic. White for anti-clockwise version, grey for clockwise version. Different torque forces marked by colour coded dot on shaft.

Technical Notes

120° operating angle, additional 5° dead

angle at start/end position.
Tested to over 100,000 cycles.
Temperature range 0° to 40°C.

Tips

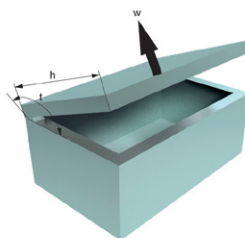
Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

Important Notes

Torque calculation:

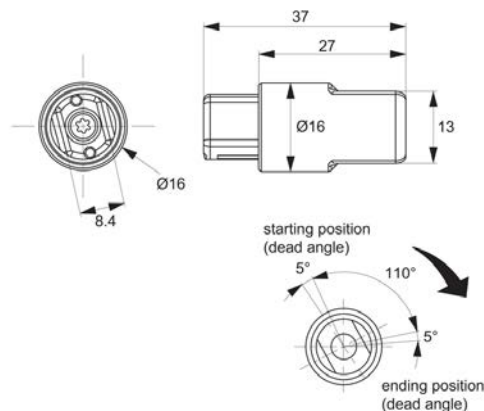
$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.
W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

Order No.	Type	Shaft colour	Operating angle	Torque kgf/cm	Torque colour marking	Weight g
Q0420.AW0010	Anti-Clockwise	White	120°	10,2 - 17,3	Green	16
Q0420.AW0020	Anti-Clockwise	White	120°	17,3 - 25,5	Black	16
Q0420.AW0110	Clockwise	Grey	120°	10,2 - 17,3	Green	16
Q0420.AW0120	Clockwise	Grey	120°	17,3 - 25,5	Black	16





Q0422



Material

Body: stainless steel, AISI 304.

Shaft: POM plastic. White for anti-clockwise version, black for clockwise version.

Oil: silicone oil.

Tips

Provides smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

Important Notes

Rated torques measured at rotation speed

of 20rpm, at 23°C.

Values $\pm 20\%$.

Max. rotation speed 50rpm.

Max. cycle rate 10 cycle/min.

Operating temperature, -5° to 50°C.

Design tested to 50,000 cycles.

Torque calculation:

$T(\text{Kg.cm}) = W(\text{Kg}) \times H(\text{cm}) \times 9.8/2$.

W(Kg) is weight of cover/lid, H(cm) is distance between fulcrum and cover/lid's opening edge.

Q0422 is designed to generate a large torque just before a lid, closing from a vertical position; comes to full closure. See diagram a.

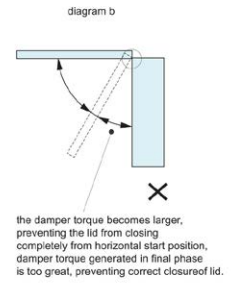
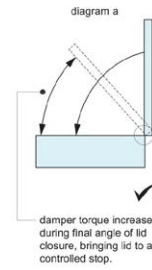
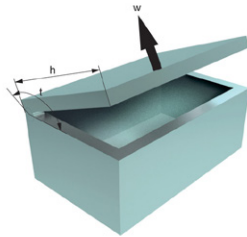
Q0422 should not be used for a lid closing from a horizontal start position, as the damper torque generated, just prior to closing, is too great causing the lid not to fully close. See diagram b.

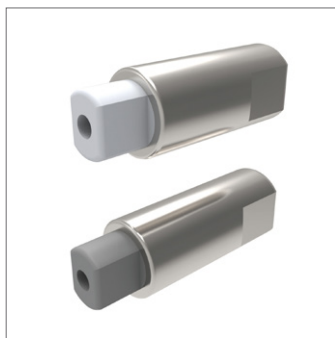
Order No.	Damping direction	Shaft colour	Operating angle	Torque kgf	Weight g
Q0422.AW0110	Clockwise	Black	110°	10	14
Q0422.AW0010	Anti-clockwise	White	110°	10	14
Q0422.AW0120	Clockwise	Black	110°	20	14
Q0422.AW0020	Anti-clockwise	White	110°	20	14
Q0422.AW0130	Clockwise	Black	110°	30	14
Q0422.AW0030	Anti-clockwise	White	110°	30	14



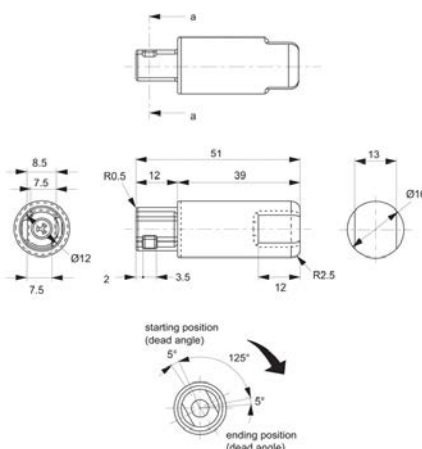
Torque Dampers - Compact uni-directional - 110° operating angle

Torque Dampers





Q0430



Material

Body: stainless steel, AISI 304.

Shaft: PBT plastic. White for anti-clockwise version, grey for clockwise version. Different torque forces marked by colour coded dot on shaft.

Technical Notes

125° operating angle, additional 5° dead

angle at start/end position.

Tested to over 100,000 cycles.

Temperature range 0° to 40°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

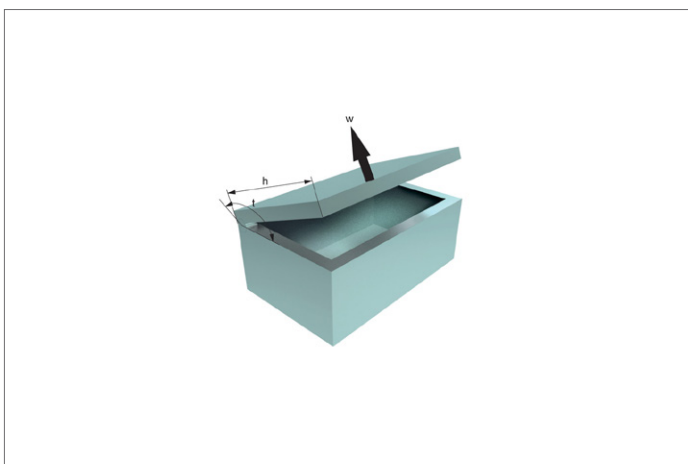
Important Notes

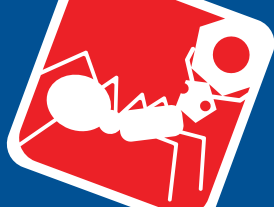
Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.

W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

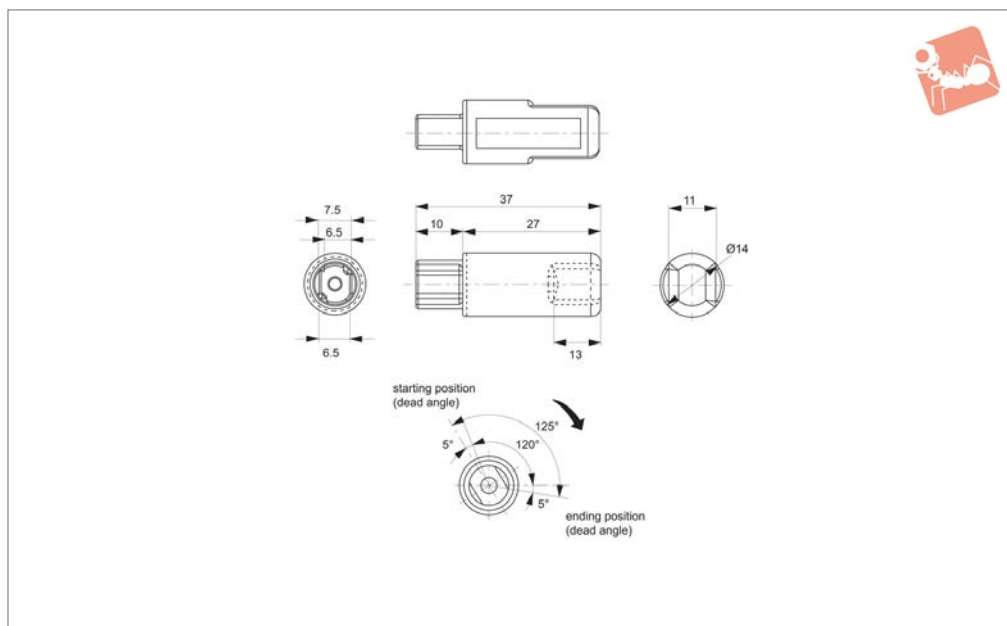
Order No.	Type	Shaft colour	Operating angle	Torque colour marking	Damping torque kgf/cm	Weight g
Q0430.AC0010	Anti-Clockwise	White	125°	Blue	20,4 - 26,5	20
Q0430.AC0020	Anti-Clockwise	White	125°	Red	24,5 - 30,6	20
Q0430.AC0110	Clockwise	Grey	125°	Blue	20,4 - 26,5	20
Q0430.AC0120	Clockwise	Grey	125°	Red	24,5 - 30,6	20





Torque Dampers - Compact uni-directional - 120° operating angle

Torque Dampers



Q0440

TORQUE DAMPERS

Material

Body: stainless steel, AISI 304. Shaft: PBT plastic. White for anti-clockwise version, grey for clockwise version. Different torque forces marked by colour coded dot on shaft.

Technical Notes

120° operating angle, additional 5° dead

angle at start/end position.

Tested to over 100,000 cycles.

Temperature range 0° to 40°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

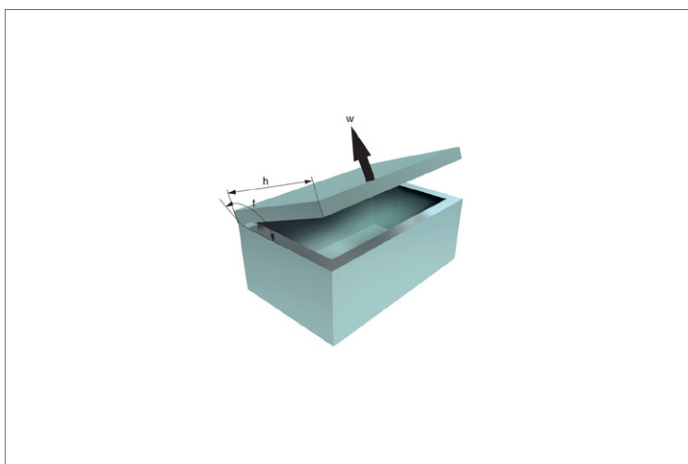
Important Notes

Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.

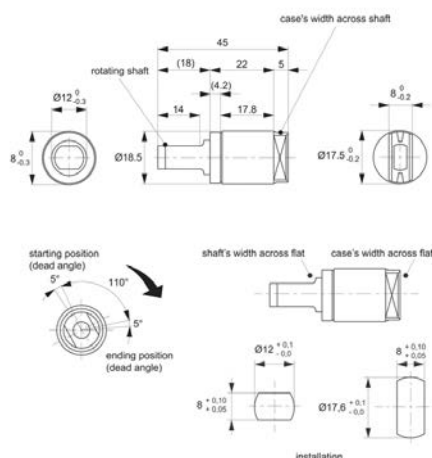
W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

Order No.	Type	Shaft colour	Operating angle	Torque colour marking	Torque Ncm	Weight g
Q0440.AC0010	Anti-Clockwise	White	120°	Blue	8,2 - 15,3	10
Q0440.AC0020	Anti-Clockwise	White	120°	Red	15,3 - 25,5	10
Q0440.AC0110	Clockwise	Grey	120°	Blue	8,2 - 15,3	10
Q0440.AC0120	Clockwise	Grey	120°	Red	15,3 - 25,5	10





Q0460



Material

Body: polybutylene terephthalate (PBT).
Shaft: polybutylene sulphide (PPS). White for anti-clockwise version, black for clockwise version.
Oil: silicone oil.

Tips

Provides smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

Important Notes

Rated torques measured at rotation speed

of 20rpm, at 23°C.
Values $\pm 20\%$.
Max. rotation speed 50rpm.
Max. cycle rate 10 cycle/min.
Operating temperature, -5° to 50°C.
Design tested to 50,000 cycles.

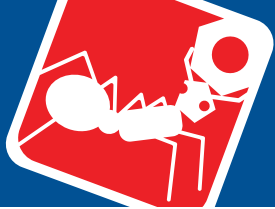
Torque calculation:

$T(\text{Kgf.cm}) = W(\text{Kg}) \times H(\text{cm}) \times 9.8/2$.
W(Kg) is weight of cover/lid, H(cm) is distance between fulcrum and cover/lid's opening edge.

Q0460 is designed to generate a large torque just before a lid, closing from a vertical position; comes to full closure. See diagram a.

Q0460 should not be used for a lid closing from a horizontal start position, as the damper torque generated, just prior to closing, is too great causing the lid not to fully close. See diagram b.

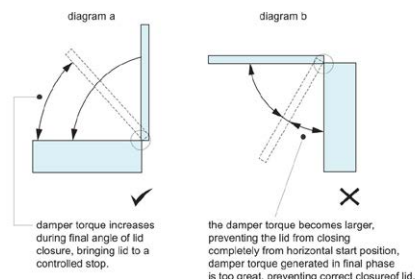
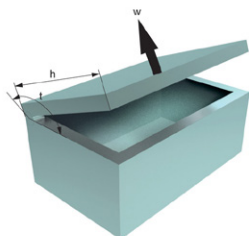
Order No.	Damping direction	Shaft colour	Operating angle °	Damping torque kgf/cm	Return damping torque kgf/cm	Weight g
Q0460.AW0110	Clockwise	Black	110°	10	3	10
Q0460.AW0010	Anti-clockwise	White	110°	10	3	10
Q0460.AW0115	Clockwise	Black	110°	15	5	10
Q0460.AW0015	Anti-clockwise	White	110°	15	5	10
Q0460.AW0118	Clockwise	Black	110°	18	8	10
Q0460.AW0018	Anti-clockwise	White	110°	18	8	10



Torque Dampers - Compact

uni-directional - 110° operating angle

Torque Dampers





Material

Tips

Important Notes

of 20rpm, at 23°C. Values $\pm 20\%$. Max. rotation speed 50rpm. Max cycle rate 10 cycle/min. Operating temperature, -5° to 50°C. Design tested to 50,000 cycles. Meets RoHS standards.

Torque calculation:

$T(\text{Kgf.cm}) = W(\text{Kg}) \times H(\text{cm}) \times 9.8/2$.
 $W(\text{Kg})$ is weight of cover/lid, $H(\text{cm})$ is distance between fulcrum and cover/lid's opening edge.

torque just before a lid, closing from a vertical position; comes to full closure. See diagram a.

Q0462 should not be used for a lid closing from a horizontal start position, as the damper torque generated, just prior to closing, is too great causing the lid not to fully close. See diagram b.

Q0462 is designed to generate a large

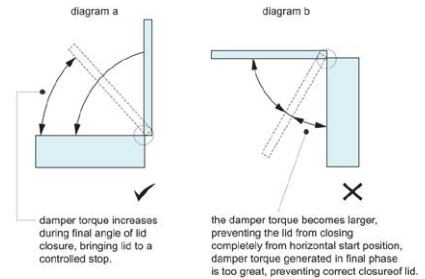
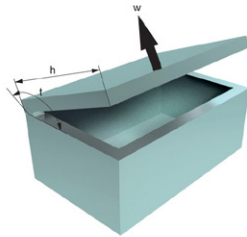
166



Torque Dampers - Compact

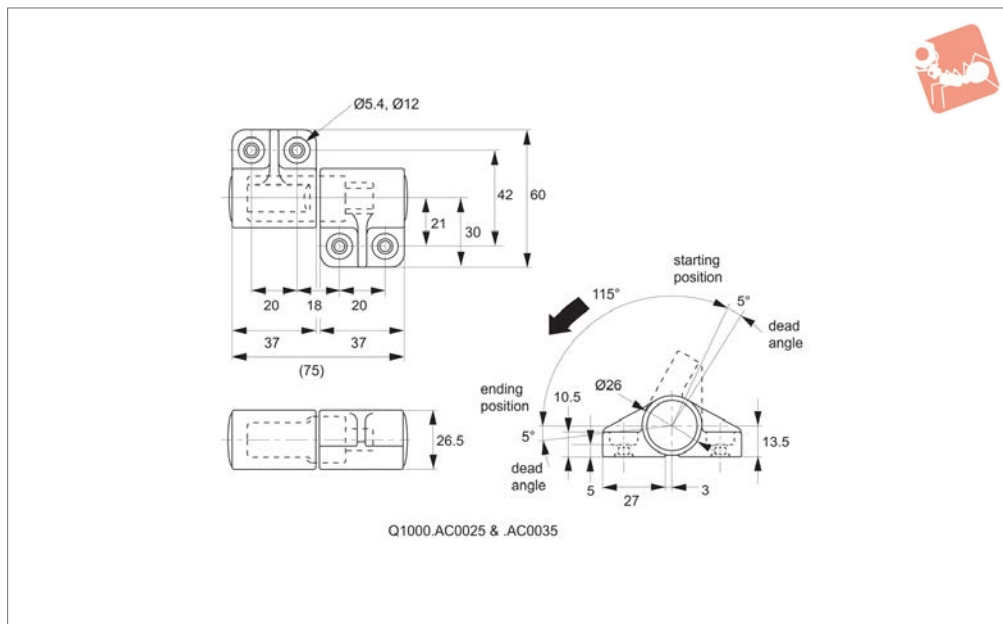
with keyway - uni-directional - 110° operating

Torque Dampers





Q1000



Material

Body: stainless steel, AISI 304.

Pin: PBT plastic. Bracket: PBT plastic with polypropylene cap.

Technical Notes

115° operating angle, additional 5° dead angle at start/end position.

Tested to over 100,000 cycles.

Temperature range -20° to 60°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.

For further details of torque damper used in hinge refer to part Q0400.

Sold as a matching pair (left/right).

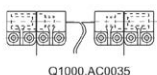
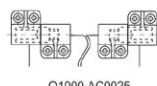
Important Notes

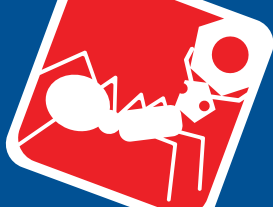
Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.

W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

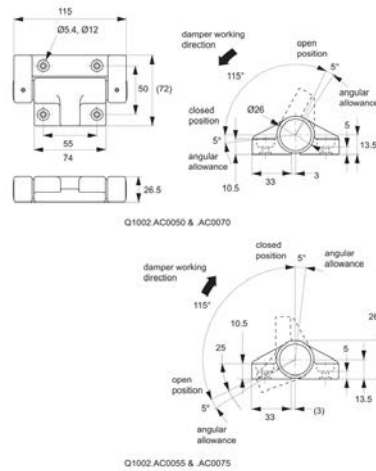
Order No.	Damping direction	Contains damper	Operating angle	Torque/pair kgf/cm
Q1000.AC0025	1 x Clockwise 1 x Anti-Clockwise	1 off Q0400.AC0010 & Q0400.AC0110	115°	30 - 50
Q1000.AC0035	1 x Clockwise 1 x Anti-Clockwise	1 off Q0400.AC0020 & Q0400.AC0120	115°	50 - 70





Soft Closing Hinge - Complete with torque dampers - 115° operating angle

Torque Dampers



Q1002

TORQUE DAMPERS

Material

Body: stainless steel, AISI 304. Pin: PBT plastic.
Bracket: PBT plastic with polypropylene cap.

Technical Notes

115° operating angle, additional 5° dead angle at start/end position.

Tested to over 100,000 cycles.
Temperature range -20° to 60°C.

Tips

Provide smooth and quiet motion of lids, covers etc. Ideal for special purpose machines, air conditioning units etc.
For further details of torque damper used in hinge refer to part Q0400.

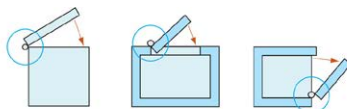
Sold as individual piece.

Important Notes

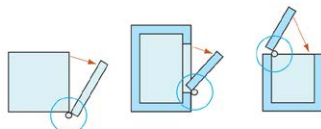
Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.
W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

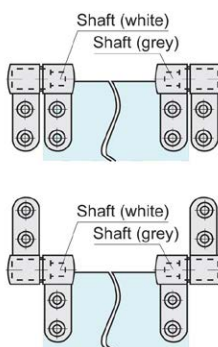
Order No.	Damping direction	Contains damper	Damping action	Operating angle	Torque/pair kgf/cm
Q1002.AC0050	Anti-Clockwise	1 off Q0400.AC0010 & Q0400.AC0110	Closing	115°	60 - 100
Q1002.AC0055	Anti-Clockwise	1 off Q0400.AC0010 & Q0400.AC0110	Opening	115°	60 - 100
Q1002.AC0070	Clockwise	1 off Q0400.AC0020 & Q0400.AC0120	Closing	115°	100 - 140
Q1002.AC0075	Clockwise	1 off Q0400.AC0020 & Q0400.AC0120	Opening	115°	100 - 140

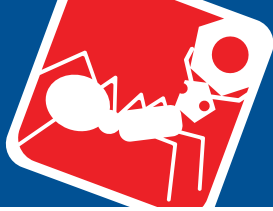


Q1002.AC0050 & .AC0070



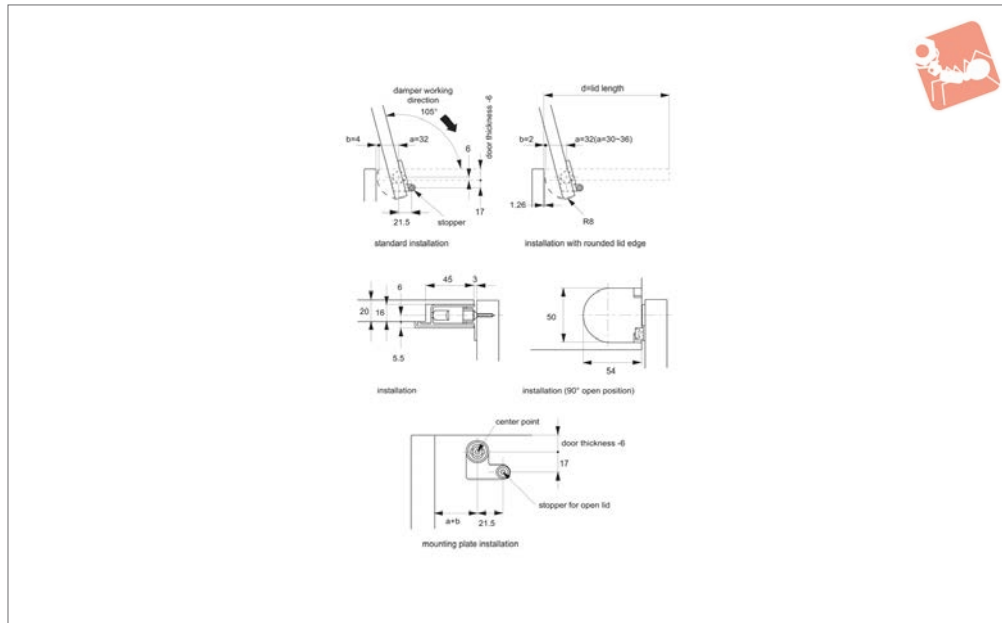
Q1002.AC0055 & .AC0075





Soft Closing Hinge Set - Complete with torque dampers - 115° operating angle

Torque Dampers



Q1050

TORQUE DAMPERS

Material

Hinge mounting plate: aluminium, black.
Hinge bracket: polyacetal, black.
Face plate: ABS plastic, black or white finish.

Technical Notes

Soft closing damper hinge prevents lids

from slamming shut. 115° operating angle, additional 5° dead angle at start/end position. Temperature range 0° to 40°C.

Tips

For further details of torque damper used in hinge refer to part Q0420.

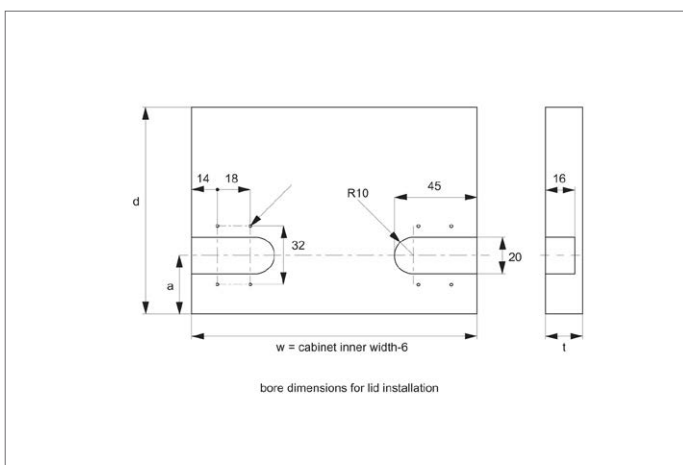
Sold as matching pair (left/right).

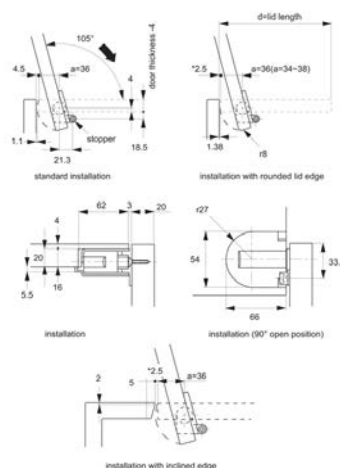
Important Notes

Torque calculation:

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.
W (Kg) is weight of cover/lid, H (cm) is distance between fulcrum and cover/lid's opening edge.

Order No.	Type	Contains damper	Finish	Torque/pair kgf/cm	Weight/pair g
Q1050.AC0035	Hinge	1 off Q0420.AC0010 & Q420.AC0110	Black	20 - 34	91
Q1050.AC0050	Hinge	1 off Q0420.AC0020 & Q420.AC0120	Black	34 - 50	91
Q1050.AC9010	Face Plate	-	Black	-	12
Q1050.AC9020	Face Plate	-	White	-	12



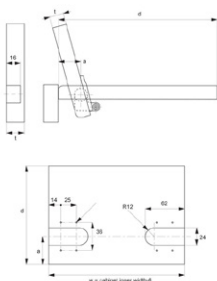


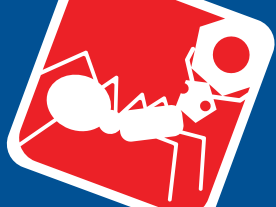
Soft closing damper hinge prevents lids from slamming shut. 115° operating

For further details of torque damper used

$T \text{ (Kgf.cm)} = W \text{ (Kg)} \times 0.5 \times H \text{ (cm)}$.
 $W \text{ (Kg)}$ is weight of cover/lid, $H \text{ (cm)}$ is distance between fulcrum and cover/lid's opening edge.

Order No.	Type	Contains damper	Finish	Torque/pair kgf/cm	Weight/pair g
Q1060.AC0080	Hinge	1 off Q0420.AC0010 & Q0420.AC0110	Black	61 - 81	103
Q1060.AC0180	Hinge	1 off Q0420.AC0010 & Q0420.AC0110	White	61 - 81	103





Wixroyd Torque Dampers

with partial rotation angle

Q0400 - Q1060
Rotary & Torque Dampers

Wixroyd torque dampers offer controlled opening and closing of lids, drawers, covers and much more, they provide a wide range of solutions for a variety of applications creating smooth movement and function.

Though unnoticed in many applications, torque dampers are a vital part of many products bringing quality, safety and durability. Torque dampers provide quality movement enhancing both touch and feel.

Torque dampers utilise the movement of fluid forced from one chamber to another via a rotor. Dampening speed is dependent upon the viscosity of the fluid and the diameter of the fluid aperture.

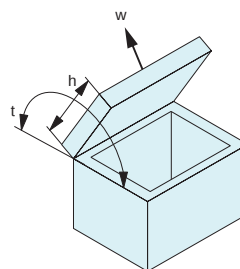
To calculate the torque for your application, the following measurements are necessary.

$$t \text{ (torque)} = w \times 0.5 \times h$$

h = length from pivot point to end of lid (cm)

w = weight of the lid (Kg)

Torque force stated per product (see individual product pages), is the maximum torque to which the specified part can be exposed before the dampening force yields and hence dampening is overcome.



Operating principle

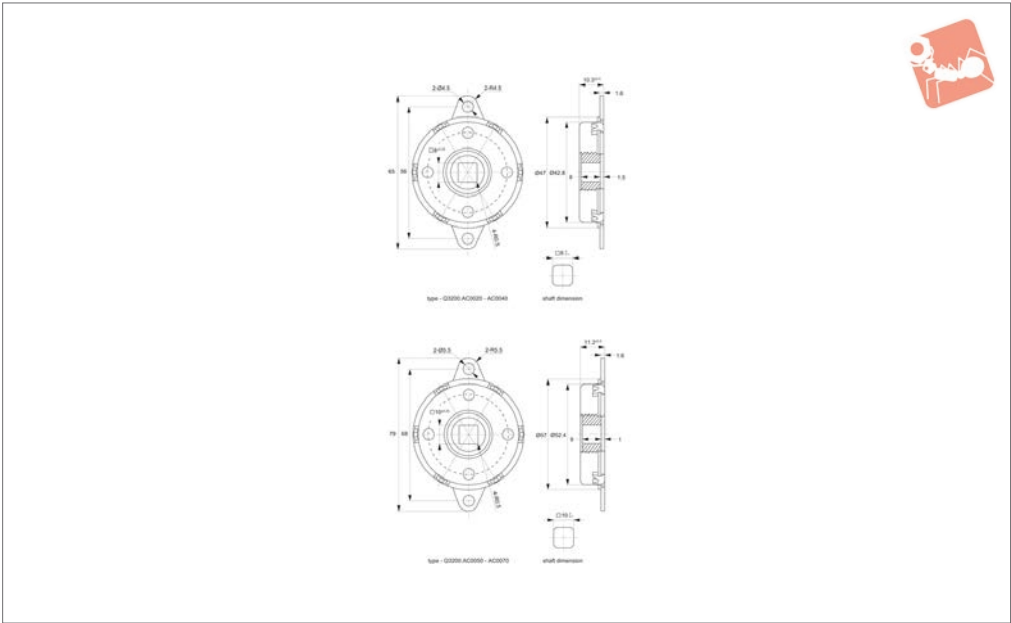
Torque calculation

Table of torque dampers: Torque ranges

Part no.	Torque damper range	Torque Kgf.cm	Torque Kgf.cm																
			10	20	30	40	50	60	70	80	90	100	110	120	130	140	150		
	Q0400 Starting position (Dead angle) 5° Ending position (Dead angle) 115° 5°	15 - 35																	
	Q0420 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	10 - 25																	
	Q0422 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	10 - 35																	
	Q0430 Starting position (Dead angle) 5° Ending position (Dead angle) 125° 5°	20 - 30																	
	Q0440 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	8 - 25																	
	Q0460 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	10 - 18																	
	Q0462 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	10 - 30																	
	Q1000 Starting position (Dead angle) 5° Ending position (Dead angle) 115° 5°	30 - 70																	
	Q1002 Starting position (Dead angle) 5° Ending position (Dead angle) 115° 5°	60 - 140																	
	Q1010 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	30 - 50																	
	Q1050 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	20 - 50																	
	Q1060 Starting position (Dead angle) 5° Ending position (Dead angle) 120° 5°	61 - 81																	



Q3200



Material

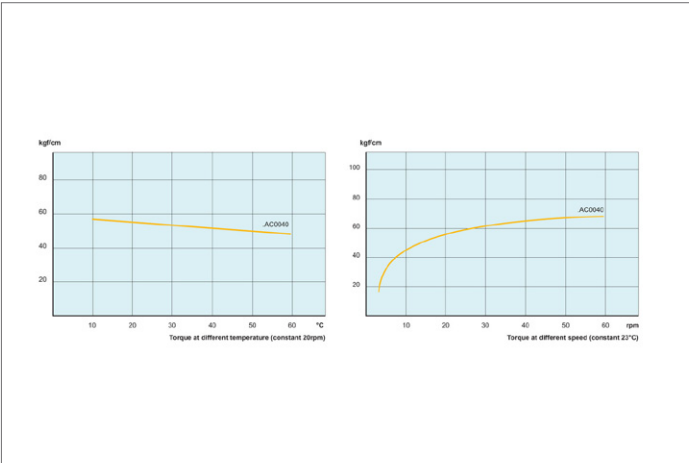
Body: iron (SPFC).
Shaft: nylon (with glass).
Oil: silicone.

Important Notes

Temperature range -10° to 50°C.

Rotational speed 20rpm at 23°±3C°
Rotational speed 50rpm max.
Cycle rate 12 cycle/min.
Dampers are both clockwise and counter clockwise.
Damper can only take torque load.

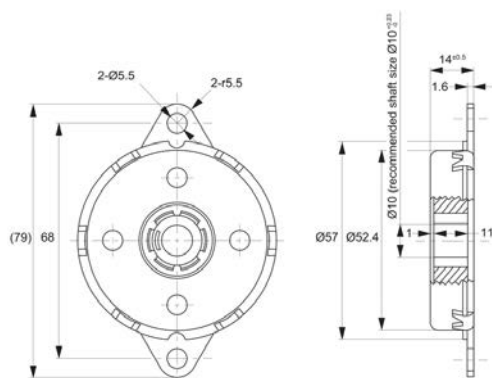
Order No.	Damping torque Nm ±0.5	Damping direction	Weight g
Q3200.AC0020	2	Bi-directional	75
Q3200.AC0030	3	Bi-directional	75
Q3200.AC0040	4	Bi-directional	75
Q3200.AC0050	5	Bi-directional	75
Q3200.AC0060	6	Bi-directional	75
Q3200.AC0070	7	Bi-directional	75



Disk Dampers

uni-directional - continuous direction - up to 55

Disk Dampers



type - Q3240.AC0057 & .AC0157



Q3240

Material

Body: iron (SPFC).
Shaft: nylon (with glass).
Oil: silicone.

shaft in opposite direction to the damping direction.
Damper can only take torque load.

Important Notes

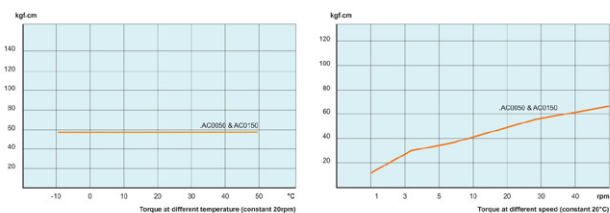
Temperature range -10° to 50°C .
Rotational speed 20rpm at $23^{\circ}\pm 3^{\circ}\text{C}$.

Rotational speed 50rpm max.
Cycle rate 12 cycle/min.
Dampers are both clockwise and counter clockwise.
Shaft: recommended shaft size Ø10, hardness HRC55, roughness 1.02 or lower

Technical Notes

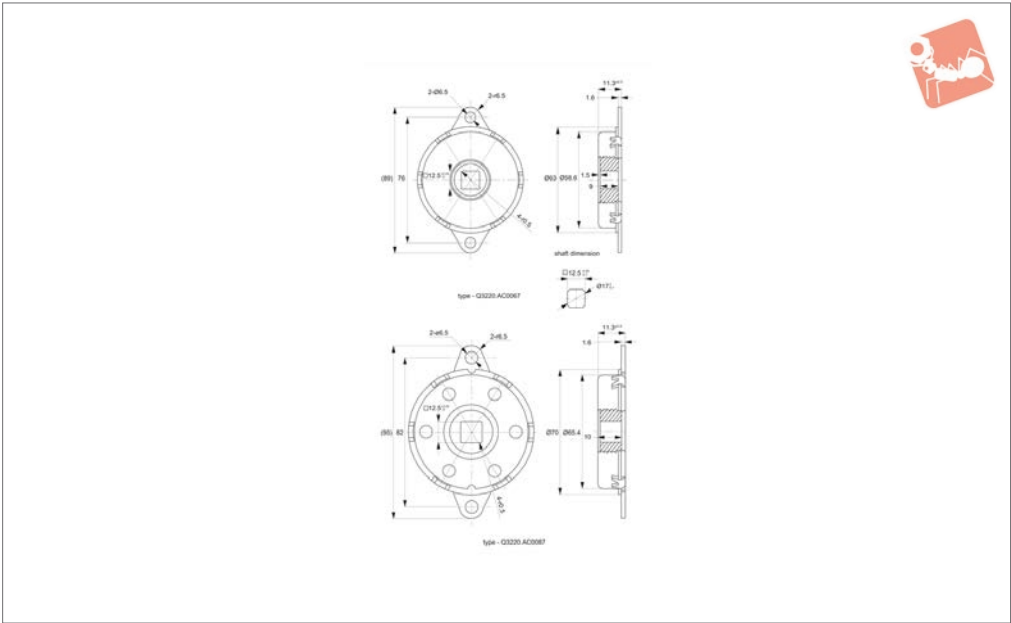
When inserting shaft, insert by rotating

Order No.	Damping torque Nm ±0.5	Damping direction	Weight g
Q3240.AC0040	4.0	Clockwise	94
Q3240.AC0140	4.0	Counter-clockwise	94
Q3240.AC0050	5.0	Clockwise	94
Q3240.AC0060	6.0	Clockwise	94
Q3240.AC0150	5.0	Counter-clockwise	94
Q3240.AC0160	6.0	Counter-clockwise	94
Q3240.AC0070	7.0	Clockwise	94
Q3240.AC0170	7.0	Counter-clockwise	94





Q3220



Material

Body: steel
Socket: nylon with glass fibre
Operating fluid: silicone oil.

Tips

For graphs of torque at varying tempera-

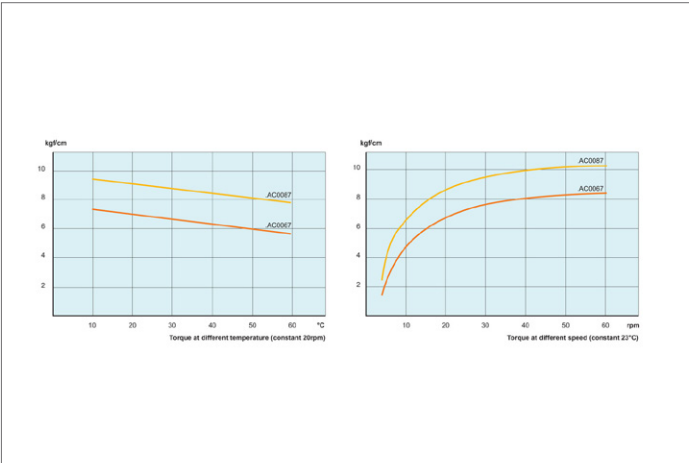
ture and speed, see Torque Closing Speed
Graphs earlier in this section.
Damper can only take torque load.

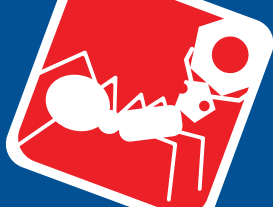
Important Notes

Temperature range -10°c to +50°c.
Rotational speed 50 rpm max.

Cycle rate 12 cycles/min.
External support for shaft required.

Order No.	Damping torque kgf/cm	Weight capacity kg max.	Weight g
Q3220.AC0067	67	0.12	92
Q3220.AC0087	87	0.12	112

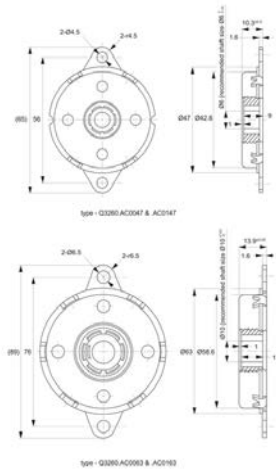




Disk Dampers

uni-directional - continuous direction - up to 85

Disk Dampers



Q3260

DISK DAMPERS

Material

Body: steel
Socket: nylon with glass fibre.
Operating fluid: silicone oil.

Technical Notes

Shaft specifications:
Min hardness - 55HRC (min 0.5mm depth).
Surface roughness - 1.0µm.

End chamfering - R0.2/R0.3.

Tips

For graphs of torque at varying temperature and speed, see Torque Closing Speed Graphs earlier in this section.

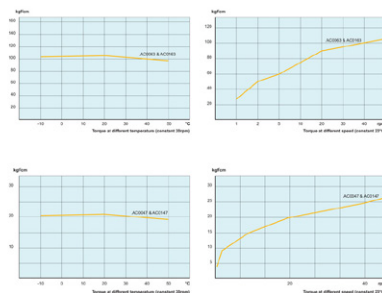
When inserting shaft, insert by rotating shaft in the opposite direction of the dampening direction.

Damper can only take torque load.

Important Notes

Temperature range -10°C to +50°C.
Rotational speed 50rpm max.
Cycle rate 12 cycles/ min.
External support for shaft required.

Order No.	Damping direction	Damping torque kgf/cm	For shaft dia. mm 0 -0.03	Weight capacity kg max.	Weight g
Q3260.AC0047	Clockwise	20	6	0.12	55
Q3260.AC0147	Counter Clockwise	20	6	0.12	55
Q3260.AC0063	Clockwise	85	10	0.12	115
Q3260.AC0163	Counter Clockwise	85	10	0.12	115

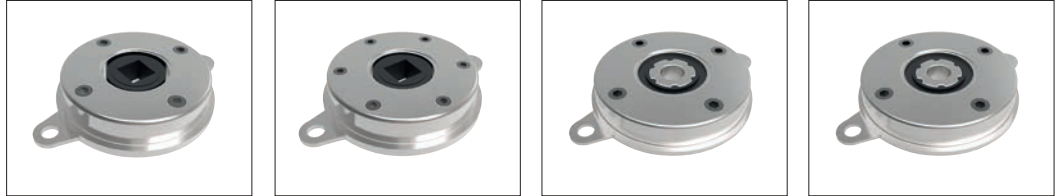




Solution for controlled opening and closing motion

Wixroyd disk dampers offer controlled opening and closing of lids, drawers, covers and much more, they provide a range of solutions for a variety of applications creating smooth movement and function. Though unnoticed in many applications, disk dampers are a vital part of many products bringing quality, safety and durability.

Disk dampers provide quality movement enhancing both touch and feel. Available in uni-directional (single) dampening, or bi-directional (double) version.



Disk dampers

Introduction

Disk dampers utilise the principle of fluid resistance to reduce the speed of moving parts. The oil viscosity is utilised to provide the "braking force" of the damper. The torque or "braking force" can be adjusted by changing the viscosity of the oil.

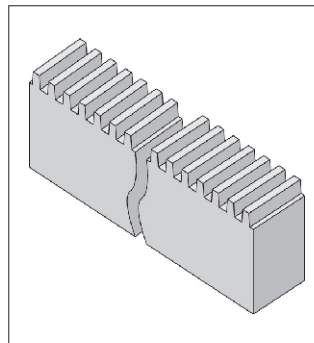
Applications

- Loading trays for CD, DVD, VCR, MD players.
- Arm rests, ashtrays, center consoles, glove boxes, handles and storage compartments in passenger vehicles.
- Camcorders, cellular phones and small personal devices.

Operating principle and general specification

Disk dampers utilise the movement of fluid forced from one chamber to another via a rotor. Dampening speed is dependent upon the viscosity of the fluid and the diameter of the fluid aperture.

Through the use of toothed plastic rack no. Q3150, disk dampers can be used to dampen on a linear plane rather than the normal dampening directly at the shaft.



Part no. Q3200 to Q3260

Max. speed	50rpm
Max. cycle rate	12 cycles/min
Nominal torque rating	At 20rpm, 23°C (73°F)
Operating temperature	-10 to 50°C (14 - 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)

Torque calculation

Note

Dampening direction is determined whilst looking directly onto the output shaft.

Important

Avoid side loading of the disk damper output shaft in order to maximise effectiveness.

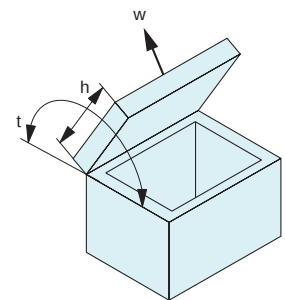
To calculate the torque for your application, the following measurements are necessary.

$$t \text{ (torque)} = w \times 0.5 \times h$$

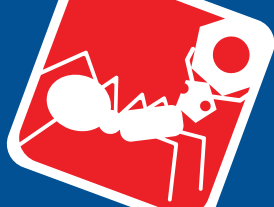
h = length from pivot point to end of lid (cm)

w = weight of the lid (Kg)

Torque force stated per product (see individual product pages), is the maximum torque to which the specified part can be exposed before the dampening force yields and hence dampening is overcome.



Important note: Once calculation has been made choose a disk damper from our range which can accommodate the newly calculated torque of the application. Use the damper closing speed graphs opposite to confirm that the rpm given at the corresponding torque value matches the desired lid closing speed. If the desired rpm is beyond the capacity of the selected damper, then select another damper with a higher torque rating and re-test. If the rpm is too slow select another damper with a lower torque rating and re-test.



Disk Dampers

torque closing speed graphs

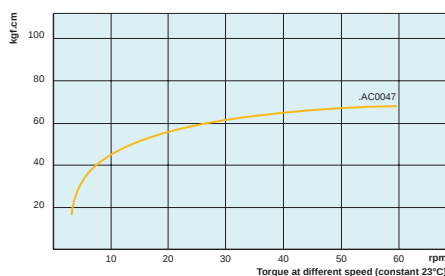
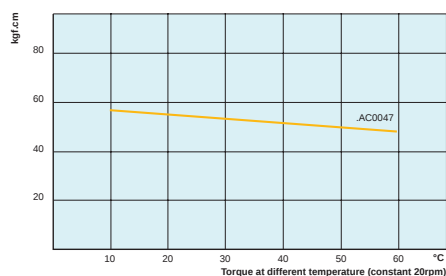
Rotary & Torque Dampers

Rotary dampers

Part no.	Damping direction	Torque Kgf/cm	Torque Kgf/cm
 Q3200	Two way	47	47
 Q3220	Two way	67 - 87	67 - 87
 Q3240	One way	55	55
 Q3260	One way	20 - 85	20 - 85

Disk dampers

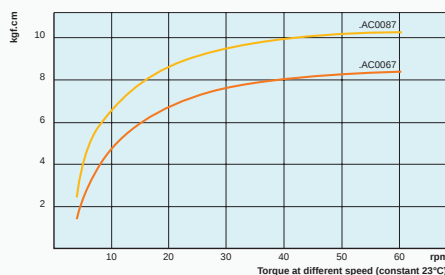
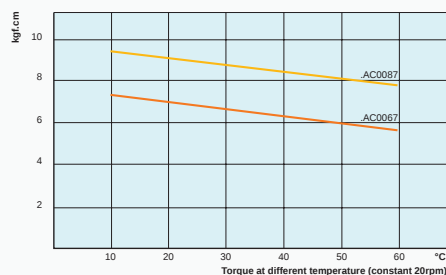
Q3200



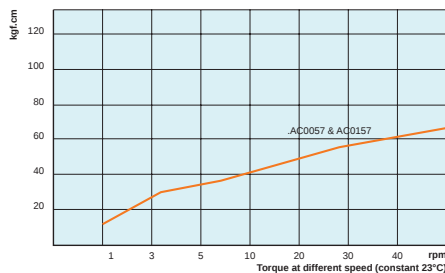
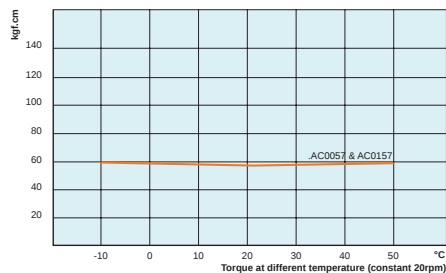
Torque graphs for temperature and speed

Follow the torque calculation formula opposite and utilise the following torque closing speed graphs to ensure the selected disk damper best suits you application.

Q3220



Q3240



Q3260

