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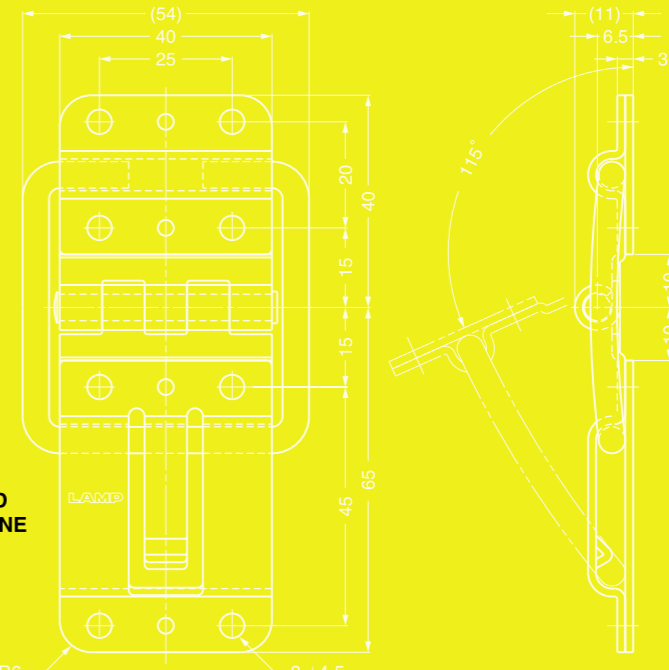
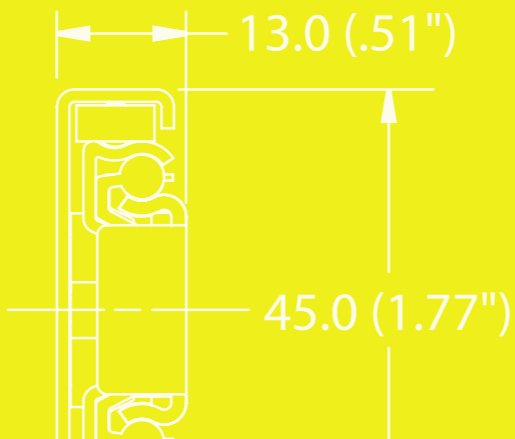
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SUGATSUNE

INDUSTRIAL COMPONENT HARDWARE CATALOG

No. 152

No. 152



SUGATSUNE
Industrial Component Hardware



SUGATSUNE AMERICA, INC.

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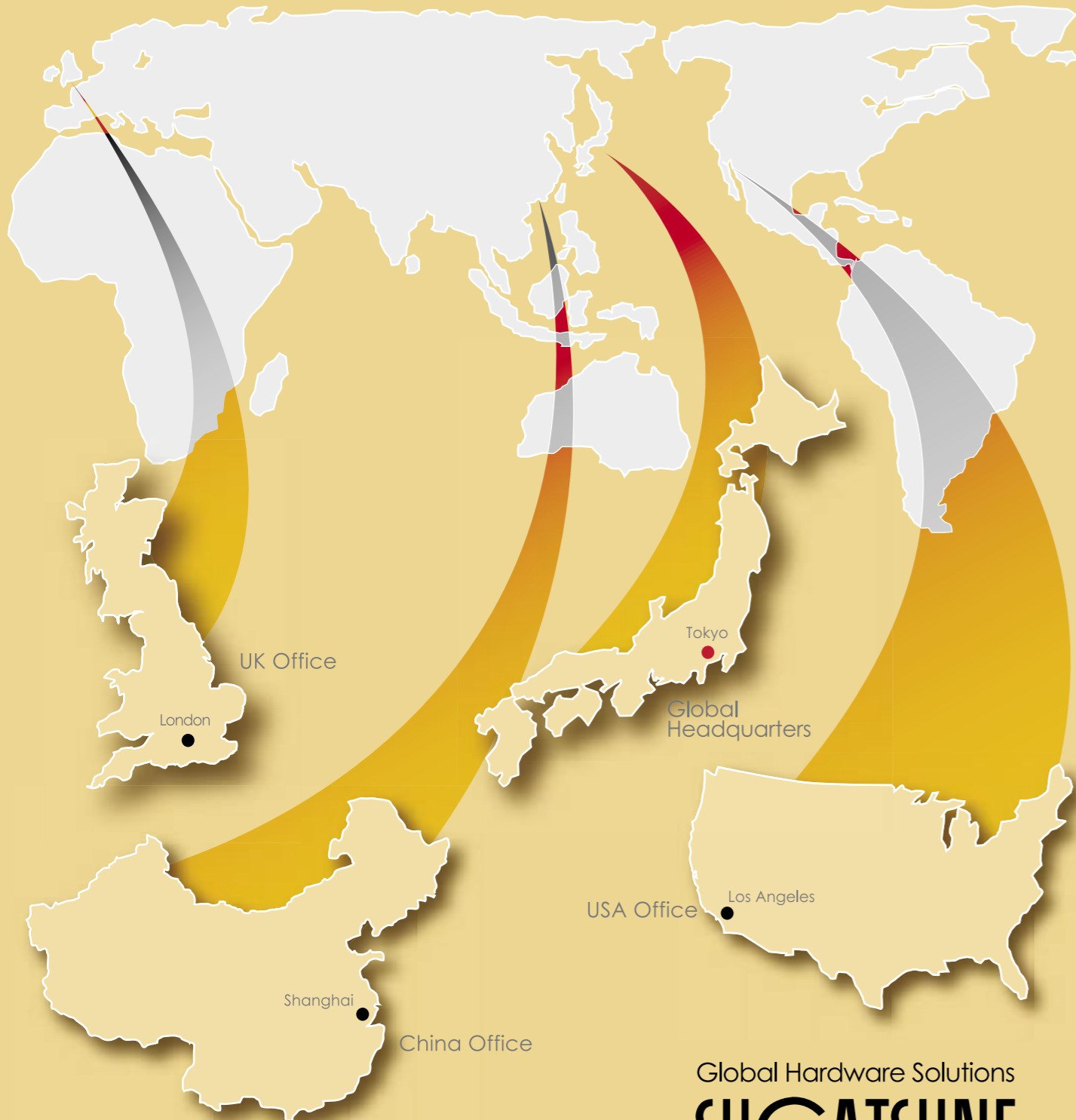
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SUGATSUNE is truly a global hardware company with worldwide sales and service. Headquartered in Japan, we also have offices in the UK, China, and the USA.

These locations provide a complete sales and technical support system to our clients around the world. SUGATSUNE's modern factories, multiple warehouse locations, far reaching geographic distributorships, and world class product development facilities combine to provide optimum hardware solutions you need.



Global Hardware Solutions
SUGATSUNE



[Inch]

Measurement Conversions

LENGTH

cm	mm	inch	feet
1	10	0.394	0.0328
0.1	1	0.0394	0.00328
2.54	25.4	1	0.083
30.48	304.8	12	1

inch = mm ÷ 25.4
mm = inch x 25.4

WEIGHT

g	kg	oz	lb
1	0.001	0.0353	0.0022
1000	1	35.27	2.205
28.4	0.0284	1	0.0625
453.6	0.454	16	1

lb = kg x 2.205
kg = lb ÷ 2.205

FORCE

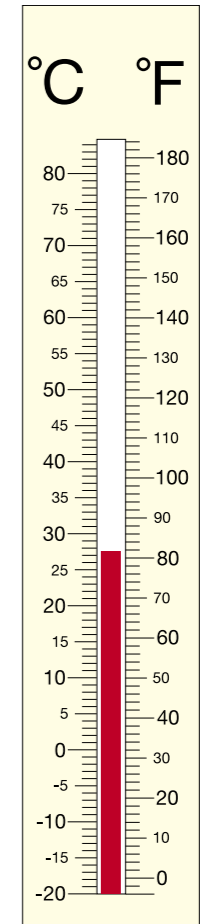
N	kgf	lbf
1	0.10197	0.225
9.807	1	2.205
4.448	0.454	1

lbf = kgf x 2.205 N = kgf x 9.807
kgf = lbf ÷ 2.205 kgf = N ÷ 9.807

MOMENT

N • m	kgf • cm	lbs • in
1	10.197	8.85
0.0981	1	0.868
0.113	1.152	1

lbs • in = kgf • cm x 0.868 N • m = kgf • cm x 0.0981
kgf • cm = lbs • in ÷ 0.868 kgf • cm = N • m ÷ 0.0981



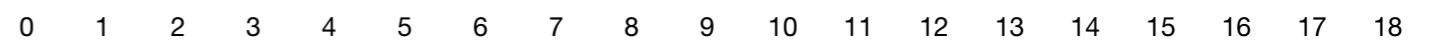
TEMPERATURE

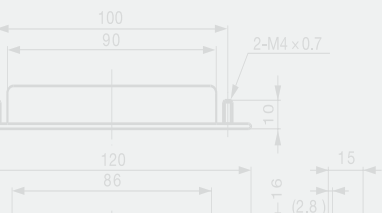
°C	°F
0	32
-17.77	0

°C = (°F - 32) x 5 ÷ 9
°F = °C ÷ 5 x 9 + 32

*All tools and figures are for reference only.

[Metric]





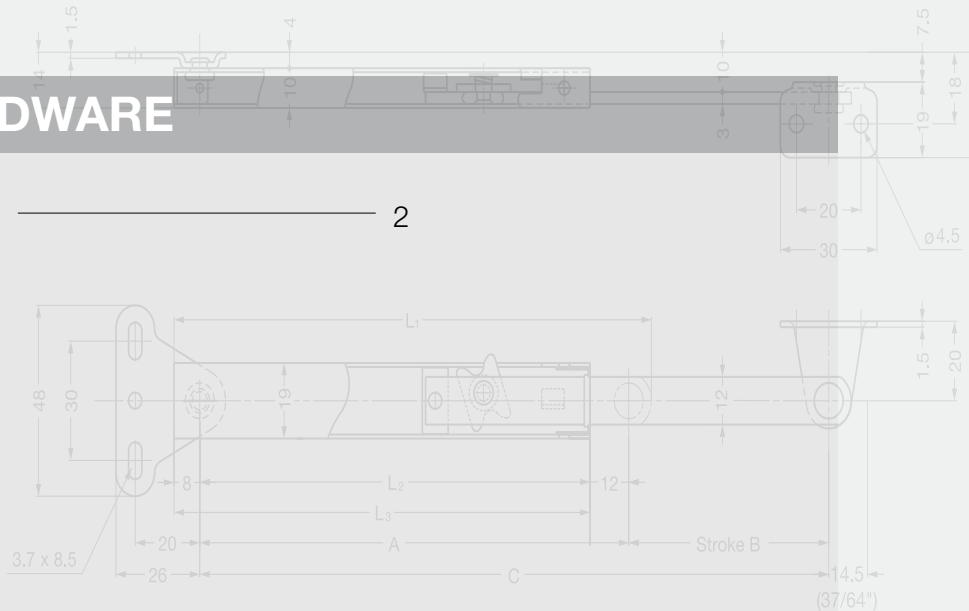
TITANIUM HARDWARE

Features:

- Density: ½ of Stainless Steel
- Nonpoisonous biocompatibility
- Non-magnetic metal
- Greater resistance than Stainless Steel to:
 - Chloride solutions (e.g. sea water)
 - Corrosive gas and liquid (e.g. dilute sulfuric hydrochloric acid)
 - Oxidizing acid (e.g. chromic and nitric)
 - Alkaline media (e.g. sodium hydroxide)
 - Stress corrosion cracking

TITANIUM HARDWARE

□ TITANIUM HARDWARE ————— 2

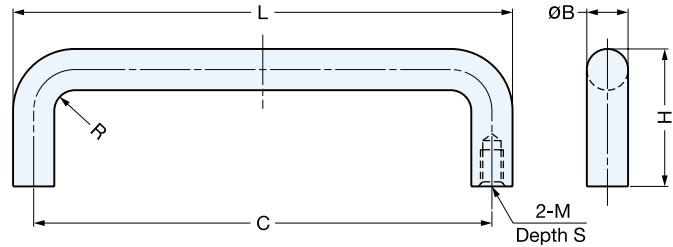


Stroke for stop release

WIRE PULL



H42-CT-2, 4, 15



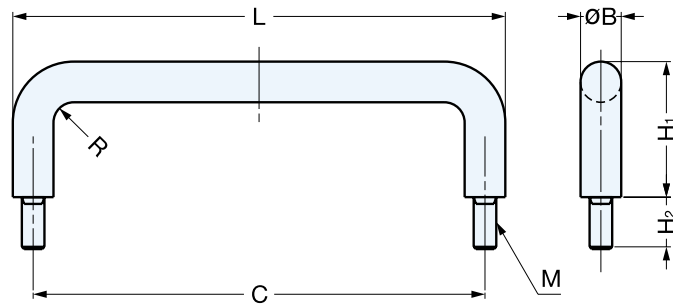
Material	Finish
Titanium	Polished

Item No.	L	H	øB	C	S	M	R	Weight (g)	Box (pcs)	Carton (pcs)
H42-CT- 2	109	30	9	100	8	M5 × 0.8	4.5	37	20	80
H42-CT- 4	130	40	10	120	8	M6 × 1	5	59	20	80
H42-CT-15	162	50	12	150	10	M8 × 1.25	6	105	20	80

WIRE PULL



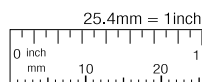
H42-BT-2, 4, 15



Material	Finish
Titanium	Polished

Item No.	L	H ₁	H ₂	B	C	R	M	Weight (g)	Box (pcs)	Carton (pcs)
H42-BT- 2	109	30	11	9	100	4.5	M5 × 0.8	40	20	80
H42-BT- 4	130	40	11	10	120	5	M6 × 1	63	20	80
H42-BT-15	162	50	20	12	150	6	M8 × 1.25	122	20	80

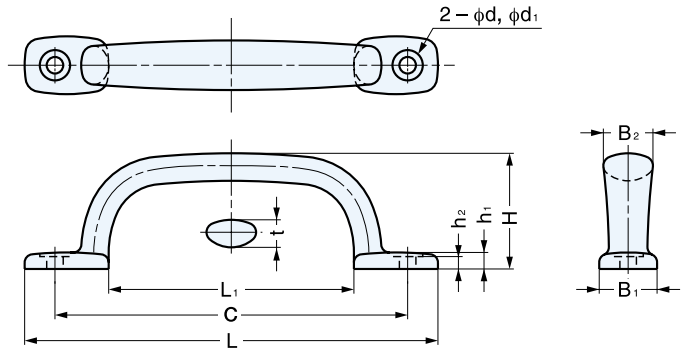
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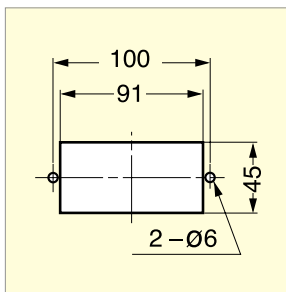
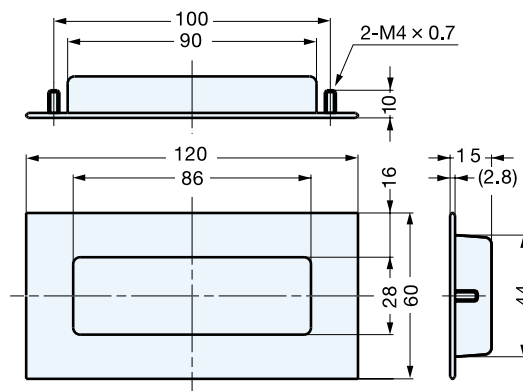
HANDLE

2LC-80Ti, 120Ti, 150Ti


Material	Finish
Titanium	Shotblast

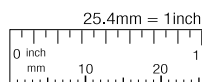
Item No.	L	L ₁	C	B ₁	B ₂	H	h ₁	h ₂	t	d	d ₁	Weight (g)	Box (pcs)	Carton (pcs)
2LC- 80 Ti	80	32	64	16	14	35	5.5	4	8	5	9.5	37	30	180
2LC-120 Ti	120	64	96	18	16	36	5.5	4.5	9	5	9.5	62	20	120
2LC-150 Ti	150	89	128	21	18	42	6	4.5	10	6	11	96	15	90

RECESSED PULL

HH-AS2 Ti


Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
HH-AS2 Ti	30	12	240	Titanium	Shotblast

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LID STAY

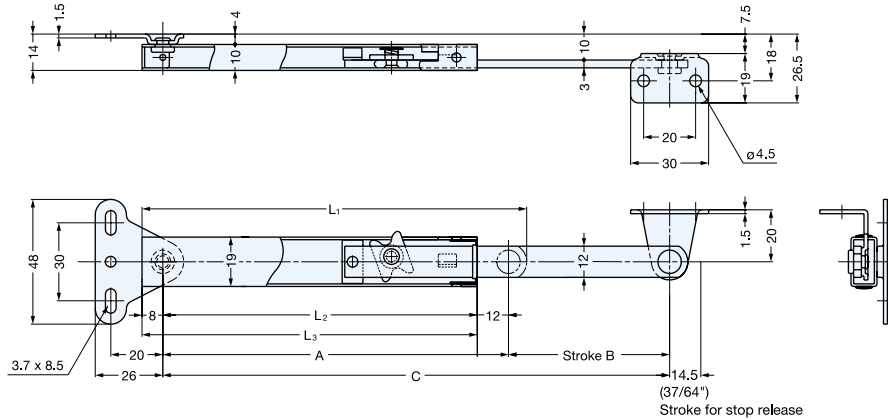


L-195A Ti, 270A Ti

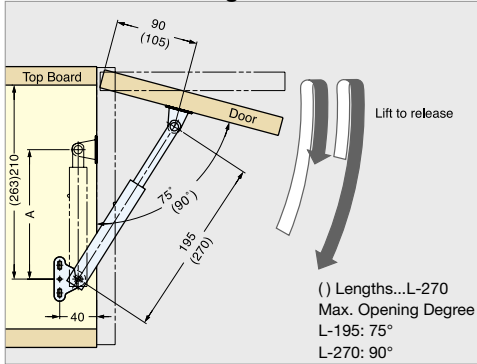


- Titanium stay to hold lid open.
- Lift up lid to release.
- Non-handed
- Only one stay per lid required.

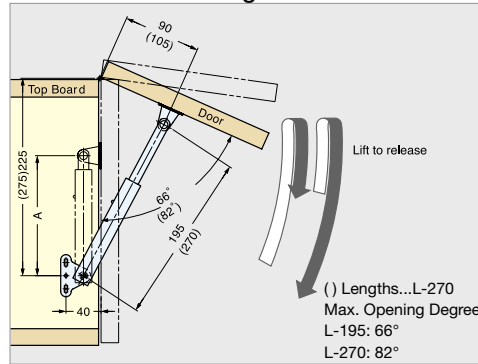
Material	Finish
Titanium	Satin



With Concealed Hinge



With Piano / Butt Hinge

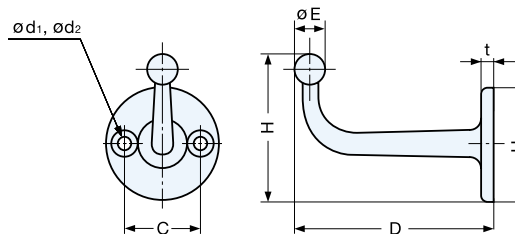


Item No.	L ₁	L ₂	L ₃	A	B	C	Door Height	Weight (g)	Box (pcs)	Carton (pcs)
L-195A Ti	148 (5-53/64")	121	129	133 (5-15/64")	62	195 (7-43/64")	250~350 (9-27/32~13-25/32")	70	10	100
L-270A Ti	185 (7-9/32")	158	166	170 (6-11/16")	100	270 (10-5/8")	320~500 (12-19/32~19-11/16")	84	10	100

HOOK



FC-50 Ti, 65 Ti



Material	Finish
Titanium	Shotblast

Item No.	D	H	H ₁	t	C	d ₁	d ₂	E	Weight (g)	Box (pcs)	Carton (pcs)
FC-50 Ti	47 (1-27/32")	37 (1-29/64")	28	3	18.5	3.3	6.5	6.5	17	40	240
FC-65 Ti	65 (2-9/16")	44 (1-47/64")	35	4	22.5	4.2	8	8	34	30	180

MAGNETIC CATCHES
(SEALED, THIN, SNAP-IN, etc.)



TOUCH LATCHES
(MAGNETIC, NON-MAGNETIC)



CATCHES
(TENSION, ROLLER, KNUCKLE, etc.)



PUSH KNOB LATCHES



DRAW LATCHES / SLAM LATCHES



SLIDE BOLT / BAR LATCHES



HASPS



CATCHES & LATCHES

<input type="checkbox"/> MAGNETIC CATCHES (SEALED, THIN, SNAP-IN, etc.)	—	6
<input type="checkbox"/> TOUCH LATCHES (MAGNETIC, NON-MAGNETIC)	—	17
<input type="checkbox"/> CATCHES (TENSION, ROLLER, KNUCKLE, etc.)	—	22
<input type="checkbox"/> PUSH KNOB LATCHES	—	26
<input type="checkbox"/> DRAW LATCHES / SLAM LATCHES	—	32
<input type="checkbox"/> SLIDE BOLT / BAR LATCHES	—	41
<input type="checkbox"/> HASPS	—	48

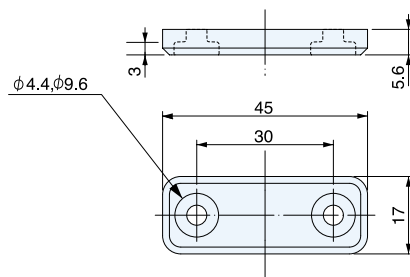
SEALED MAGNETIC CATCH



JM-45



PAT.P



- Hermetically sealed.
- Strong magnetic force.
- Stainless steel plate (JM-49) available as an option.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
JM-45	3 (6.6 lbs)	9	100	1000

Part Name	Material	Finish/Color
Body	Polyacetal	White
Magnet	Neodymium	-

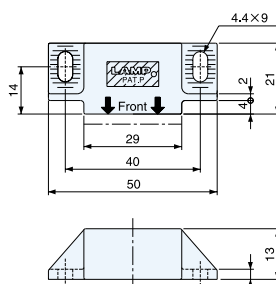
SEALED MAGNETIC CATCH



JM-50



PAT.P



- Hermetically sealed.
- Strong magnetic force.
- Stainless steel plate (JM-49) available as an option.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
JM-50/WT JM-50/BL	3 (6.6 lbs)	21	24	480

Part Name	Material	Finish/Color
Body	Polyacetal	White/Black
Magnet	Neodymium	-

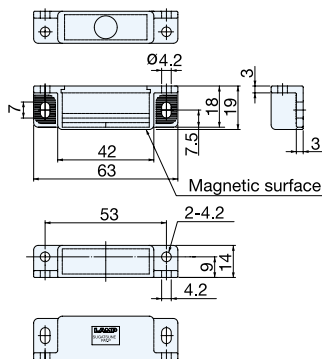
SEALED MAGNETIC CATCH



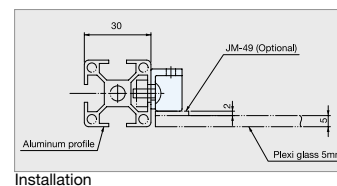
JM-63G



PAT.P



- Hermetically sealed.
- Strong magnetic force.
- Designed for use with aluminum profiles.
- Also suitable for standard side wall mount applications.
- Stainless steel plate (JM-49) available as an option.



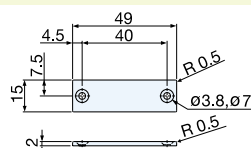
Item No.	Magnetic Force (kg)
JM-63G-15	1.5 (3.3 lbs)
JM-63G-30	3 (6.6 lbs)
JM-63G-50	5 (11 lbs)

Part Name	Material	Finish/Color
Body	Polyacetal	Light Grey
Magnet	Neodymium	-

STAINLESS STEEL COUNTER PLATE



JM-49

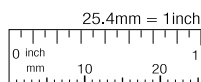


- Special plate for JM magnetic catches.
- High corrosion resistance ideal for outdoor application.

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
JM-49	10	100	1000

Material	Finish
316 Stainless Steel (Special)	Plain

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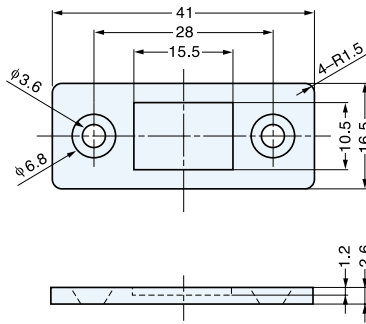
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ULTRA THIN & STRONG MAGNETIC CATCH

MC-159


PAT.P



- Ultra thin magnetic catch with extra strong magnetic force.

Part Name	Material	Finish
Magnet	Neodymium	Nickel
Base/Yoke	Steel	

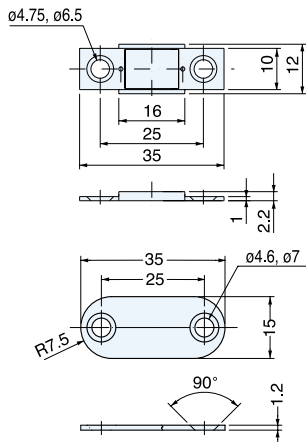
- Note:1) Suitable for temperature below 80°C (176°F)
 2) To avoid breakage, counterplate should not hit magnet.
 3) Screw heads should not protrude above the base plate.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-159	4 (8.8 lbs)	12	200	1000

ULTRA THIN MAGNETIC CATCH

YN-001P


PAT



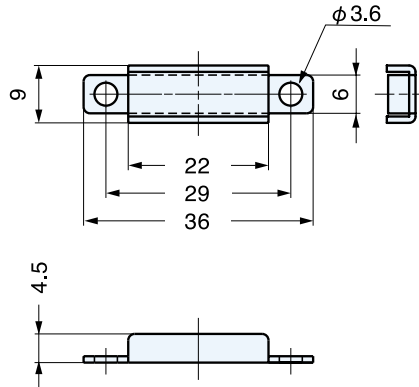
- Ultra thin magnetic catch ideal for tight space.
- Strong magnetic force.

Part Name	Material	Finish
Magnet	Neodymium	Nickel
Base/Yoke	Steel	

- Note:1) Suitable for temperature below 80°C (176°F)
 2) To avoid breakage, counterplate should not hit magnet.
 3) Screw heads should not protrude above the base plate.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
YN-001P	2.7 (5.9 lbs)	7.5	100	1000

THIN MAGNETIC CATCH

YN-003


- Thin magnetic catch ideal for tight space.

Part Name	Material	Finish
Magnet	Ferrite	-
Base/Yoke	Steel	Nickel

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
YN-003	1.7 (3.7 lbs)	5	500	2500

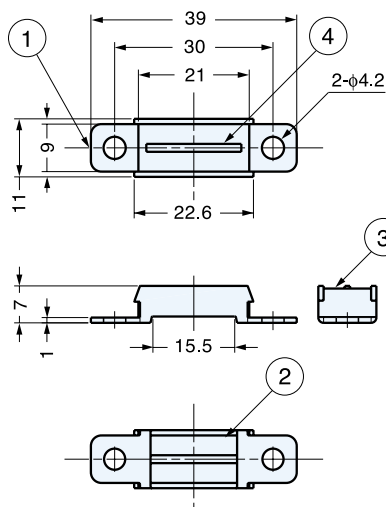
STAINLESS STEEL MAGNETIC CATCH



YN-005



PAT.P



- Thin magnetic catch ideal for tight space.

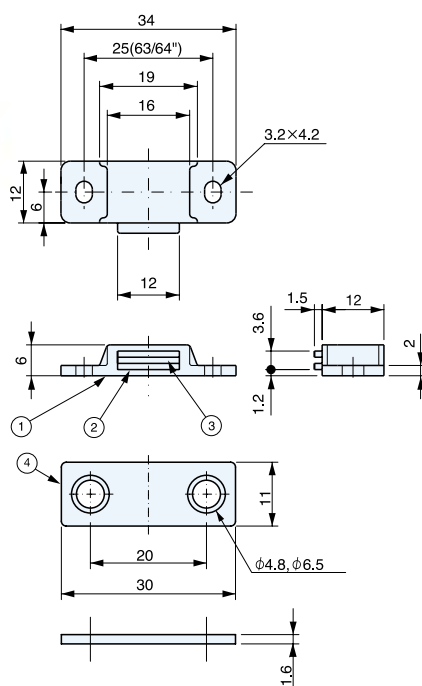
No.	Part Name	Material	Finish
①	Yoke	430 Stainless Steel	Plain
②	Magnet	Ferrite	
③	Cover	304 Stainless Steel	
④	Center Yoke	430 Stainless Steel	

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
YN-005	3 (6.6 lbs)	9	200	1000

MINI MAGNETIC CATCH



YS-001, 002



- Mini magnetic catch ideal for tight space.
- Strong or light magnetic force available.

YS-001

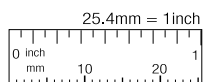
No.	Part Name	Material	Finish/Color
①	Housing	PBT	White
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Neodymium	Nickel
④	Counterplate	Steel	Yellow Zinc Chromate

YS-002

No.	Part Name	Material	Finish/Color
①	Housing	PBT	White
②	Yoke	Steel	Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.	Magnet	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
YS-001	Neodymium	3 (6.6 lbs)	6	100	1000
YS-002	Ferrite	1.2 (2.6 lbs)	5	100	1000

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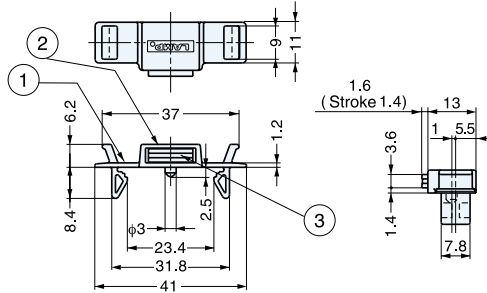
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MAGNETIC CATCH (SNAP-IN TYPE)

YSW-01, 02



PAT.P



- Snap-in magnetic catch for sheet metal application.
- Small size for tight space.
- Flex-tab for easy removal.

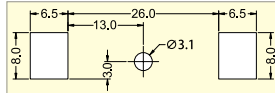
YSW-01

No.	Part Name	Material	Finish/Color
①	Housing	Polyacetal	White, Black
②	Yoke	Steel	Chromate
③	Magnet	Ferrite	-

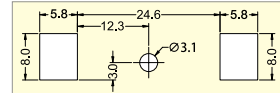
YSW-02

No.	Part Name	Material	Finish/Color
①	Housing	Polyacetal	White, Black
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Neodymium	Nickel

For sheet metal thickness 1.6mm



For sheet metal thickness 2.6mm



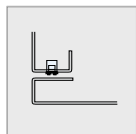
Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
YSW-01/WHT/BLK	1.2 (2.6lbs)	5	100	1000
YSW-02/WHT/BLK	3 (6.6lbs)	5.5		

MAGNETIC CATCH (SNAP-IN TYPE)

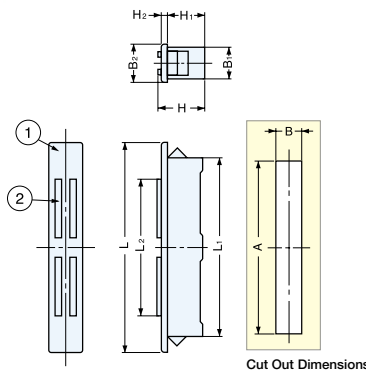
FS-5, 10



PAT



Installation



- Snap-in magnetic catch for sheet metal application.

No.	Part Name	Material	Finish/Color
①	Housing	ABS	White, Black
②	Yoke	Steel	Yellow Zinc Chromate

Door Thickness	Cut Out Dimensions			
	FS-5		FS-10	
	A	B	A	B
0.8	34.1 (1-11/32")	8.2 (21/64")	55 (2-5/32")	8.2 (21/64")
1.0	34.1 (1-11/32")	8.2 (21/64")	55 (2-5/32")	8.2 (21/64")
1.2	34.5 (1-23/64")	8.2 (21/64")	55.5 (2-3/16")	8.2 (21/64")
1.6	35 (1-3/8")	8.2 (21/64")	56 (2-13/64")	8.2 (21/64")
2.0	36.5 (1-7/16")	8.2 (21/64")	56.5 (2-7/32")	8.2 (21/64")

Item No.	L	L ₁	L ₂	B ₁	B ₂	H	H ₁	H ₂	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
FS- 5	40	33.9 (1-11/32")	21.6	8	10	13.5 (17/32")	11.2	1.2	2.2 (4.8 lbs)	9	200	2000
FS-10	64	54.5 (2-9/64")	43	8	10	14 (35/64")	11.5	1.5	4.5 (9.9 lbs)	20	50	1000

MAGNETIC CATCH (SNAP-IN TYPE)

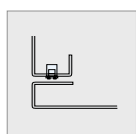


FP-5

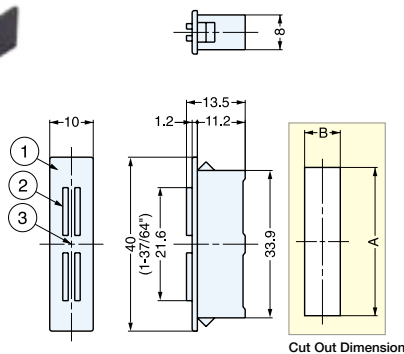


White

Black



Installation



- Snap-in magnetic catch for sheet metal application.
- Small and strong magnetic force.

No.	Part Name	Material	Color
①	Housing	ABS	White, Black
②	Yoke	Steel	
③	Magnet	Neodymium	

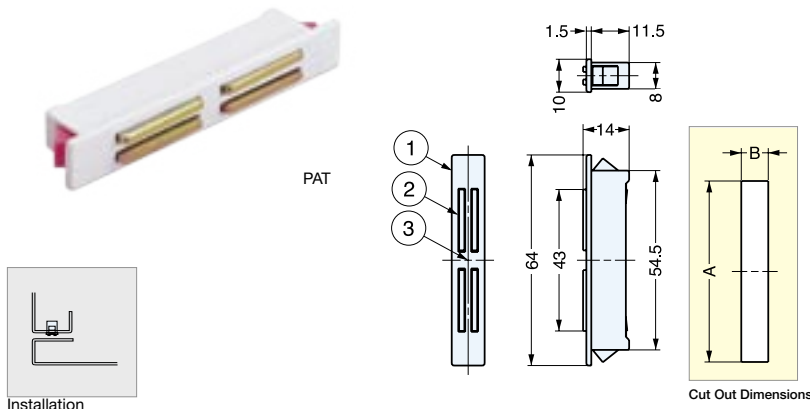
Door Thickness	Cut Out Dimensions	
	A	B
0.8	34.1 (1-11/32")	8.2 (21/64")
1.0	34.1 (1-11/32")	8.2 (21/64")
1.2	34.5 (1-23/64")	8.2 (21/64")
1.6	35 (1-3/8")	8.2 (21/64")
2.0	36.5 (1-7/16")	8.2 (21/64")

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
FP-5/WHT	4.5 (9.9 lbs)	9	200	2000
FP-5/BLK	4.5 (9.9 lbs)	9	200	2000

MAGNETIC CATCH (SNAP-IN TYPE)



FS-17



- Snap-in magnetic catch for sheet metal application.

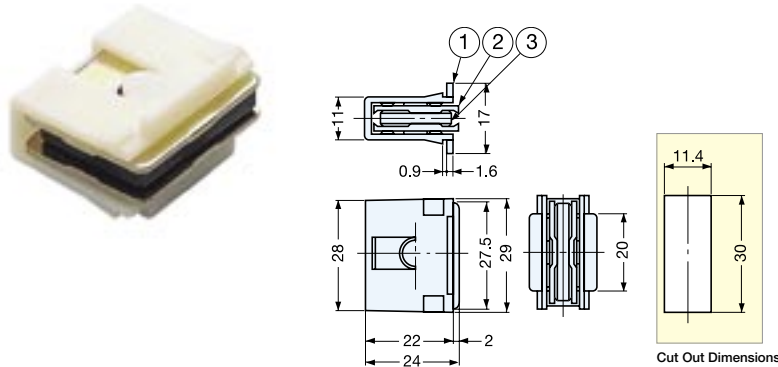
No.	Part Name	Material	Finish/Color
①	Housing	ABS	White
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-

Door Thickness	Cut Out Dimensions	
	A	B
0.8	55	8.2
1.0	55	8.2
1.2	55.5	8.2
1.6	56	8.2
2.0	56.5	8.2

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
FS-17	6 (13.1 lbs)	18	50	100

MAGNETIC CATCH (SNAP-IN TYPE)

SS-30



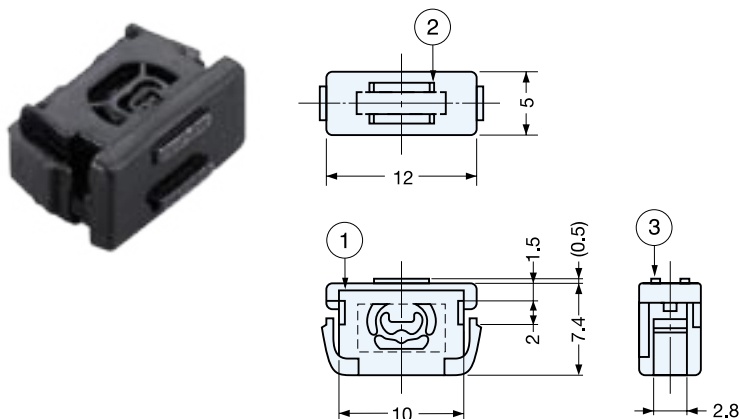
- Snap-in magnetic catch for sheet metal application.

No.	Part Name	Material	Finish/Color
①	Housing	ABS	Ivory
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton
SS-30	3 (6.6lbs)	22	60	600

MINI MAGNETIC CATCH (SNAP-IN TYPE)

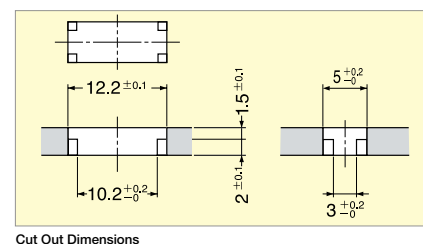
MMC-12



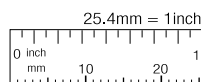
- Snap-in magnetic catch for sheet metal application.
- Small size for light weight application.

No.	Part Name	Material	Finish/Color
①	Housing	Polyamide	Black
②	Magnet	Ferrite	-
③	Yoke	Steel	Black Zinc

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)
MMC-12	0.1~0.3 (0.22~0.66 lbs)	1	200



LAMP LAMP BRAND by SUGATSUNE



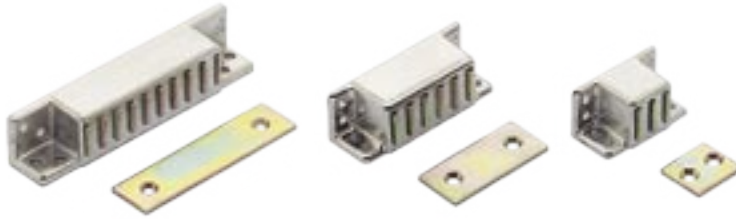
Customers outside of North America
www.sugatsune.co.jp
export@sugatsune.co.jp

North American Customers
www.sugatsune.net
 1-888-557-5267

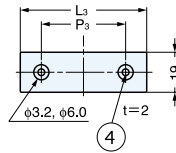
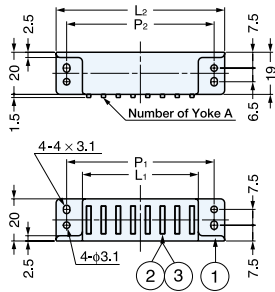
HEAVY DUTY MAGNETIC CATCH


MCH

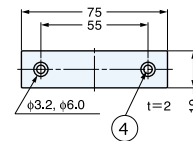
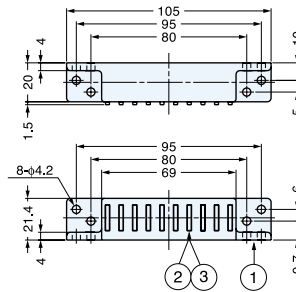
- Strong and heavy duty magnetic catch.



No.	Part Name	Material	Finish
①	Housing	Zinc Alloy	Nickel
②	Magnet	Ferrite	-
③	Yoke	Steel	Yellow Zinc Chromate
④	Counterplate		



MCH-40-MCH-80



MCH-105

Item No.	L ₁	L ₂	L ₃	P ₁	P ₂	P ₃	A	Magnetic Force (kg)	Weight	Box (pcs)	Carton (pcs)
MCH- 40	20	40	22	30	30	12	3	3 (6.6 lbs)	56	60	300
MCH- 50	27	50	29	40	40	18	4	7 (15.4 lbs)	74	50	250
MCH- 61	41	61	43	50	50	27	6	11 (24.2 lbs)	110	40	200
MCH- 80	55	80	60	70	70	40	8	14 (30.8 lbs)	140	30	150
MCH-105	-	-	-	-	-	-	-	15 (33.0 lbs)	206	24	120

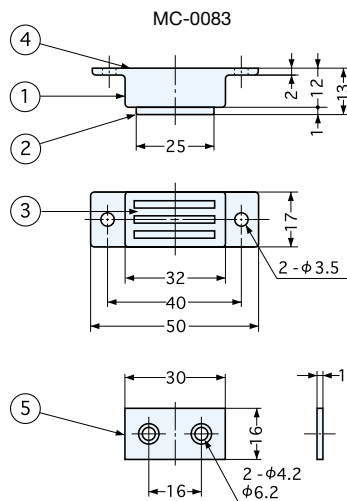
MAGNETIC CATCH


MC-0083D, 0083

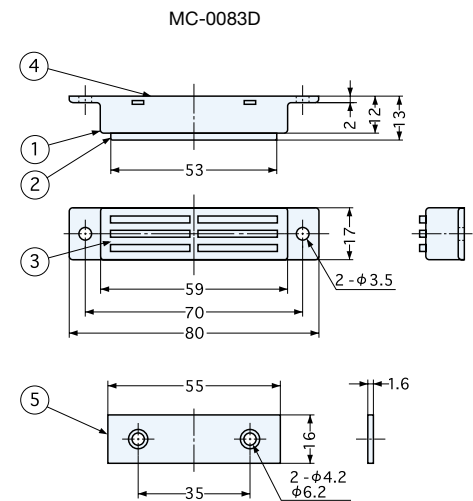

MC-0083D



MC-0083

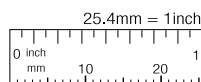


MC-0083



MC-0083D

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-0083D	10 (22 lbs)	63	30	300
MC-0083	7 (15.4 lbs)	32	60	600

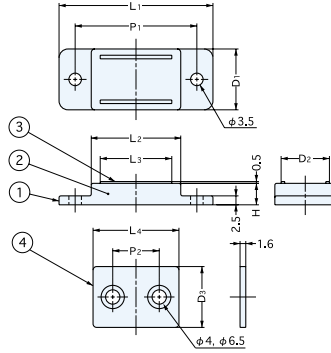
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MAGNETIC CATCH



MC-111, 112, 113



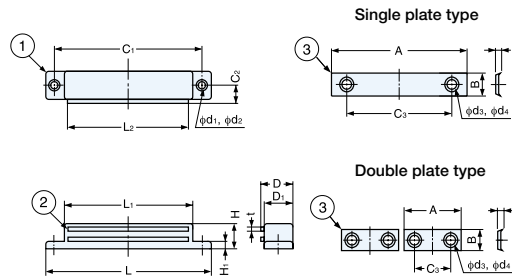
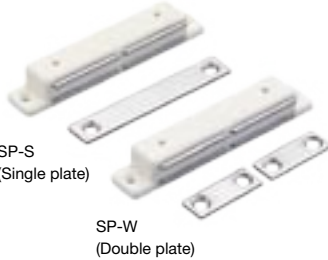
No.	Part Name	Material	Finish/Color
①	Housing	ABS	Black, Ivory
②	Magnet	Ferrite	-
③	Yoke	Steel	Yellow Zinc Chromate
④	Counterplate		Nickel

Item No.		Magnetic Force (kg)	L ₁	L ₂	L ₃	L ₄	D ₁	D ₂	D ₃	P ₁	P ₂	H	Weight (g)	Box (pcs)	Carton (pcs)
Black	Ivory														
MC-111/BLK	MC-111/IVY	5(11 lbs)	64 (2-33/64")	46	42	45	24.5(31/32")	21	24	55	30	7	48	50	500
MC-112/BLK	MC-112/IVY	3(6.6 lbs)	53 (2-5/64")	35	31	34	23.5(59/64")	20	23	44	20	6.2	32	50	500
MC-113/BLK	MC-113/IVY	1(2.2 lbs)	43 (1-11/16")	25	20	24	17 (43/64")	13.5	17	34	13	6	14	100	1000

MAGNETIC CATCH



SP



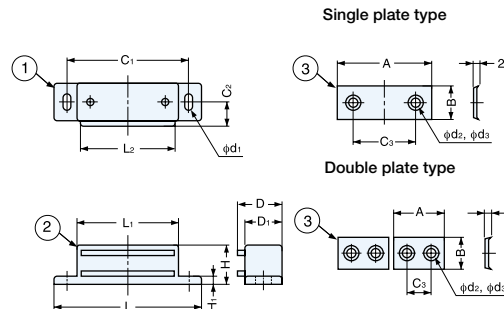
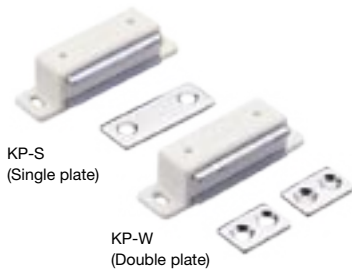
No.	Part Name	Material	Finish/Color
①	Housing	PBT	White
②	Yoke	430 Stainless Steel	-
③	Counterplate		-

Item No.	L	L ₁	L ₂	D	D ₁	H	H ₁	C ₁	C ₂	C ₃	d ₁	d ₂	d ₃	t	d ₄	A	B	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SP- 85S	86 (3-25/64")	68.4	63	17	15	13 (33/64")	4	77	9.2	57	3	6	4.5	1.5	6.8	70(2-3/4")	12(15/32")	4.8 (10.5 lbs)	57	12	360
SP- 85W	86 (3-25/64")	68.4	63	17	15	13 (33/64")	4	77	9.2	20	3	6	4.5	1.5	6.8	30(1-3/16")	11(7/16")	4.8 (10.5 lbs)	53.5	12	360
SP-100S	106 (4-11/64")	85.6	80	20.5	18	16 (5/8")	4	94	11.4	65	3	6	4.5	2	6.8	79(3/7/64")	14(35/64")	5.6 (12.3 lbs)	100	6	180
SP-100W	106 (4-11/64")	85.6	80	20.5	18	16 (5/8")	4	94	11.4	25	3	6	4.5	2	6.8	38(1-1/2")	14(35/64")	5.6 (12.3 lbs)	100	6	180

MAGNETIC CATCH

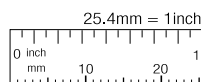


KP-50S, 55S, 55W



No.	Part Name	Material	Finish/Color
①	Housing	PBT	White
②	Yoke	Steel	Chromate
③	Counterplate		Chrome

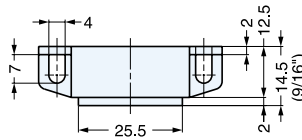
Item No.	L	L ₁	L ₂	D	D ₁	H	H ₁	C ₁	C ₂	C ₃	d ₁	d ₂	d ₃	A	B	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
KP-50S	50.5 (1-63/64")	33	30	17	15	12 (15/32")	3	42	10	20	3.2x6.2	4.2	6.7	30 (1-3/16")	11.5 (29/64")	2.4 (5.2 lbs)	26	12	720
KP-55S	60 (2-23/64")	42	38	18	15	16 (5/8")	3.2	50	10.5	25	3.2x6	4.3	6.4	38 (1-1/2")	14 (35/64")	2.8 (6.1 lbs)	45	12	360
KP-55W	60 (2-23/64")	42	38	18	15	16 (5/8")	3.2	50	10.5	10	3.2x6	4.3	6.4	20 (25/32")	13 (33/64")	2.8 (6.1 lbs)	45	12	360



MAGNETIC CATCH



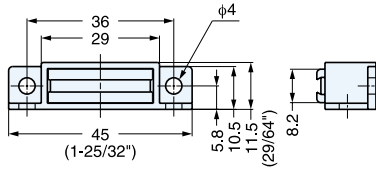
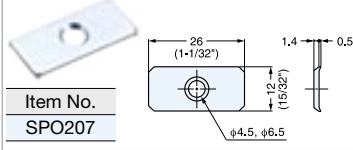
MC0099



Material	Finish/Color
ABS	Black, Grey, White
Steel	Yellow Zinc Chromate

Note: MC0099/GR(Grey)-Greater magnetic force.

Strike Plate-Optional

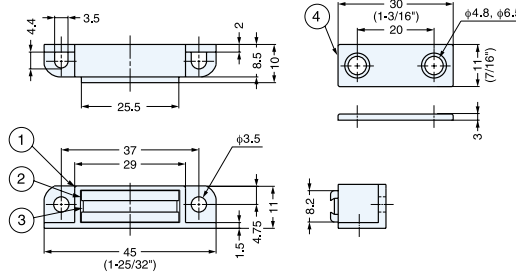


Item No.		Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
White	Black				
MC0099/BLK	MC0099/WHT	1.1 (2.4 lbs)	13.2	100	1000
MC0099S/BLK	MC0099S/WHT	3.8 (8.3 lbs)	13.2	100	1000
MC0099/GR(Grey)		5.2 (11.4 lbs)	13.2	100	1000

STRONG MAGNETIC CATCH



MC-110NF



• Strong magnetic force.

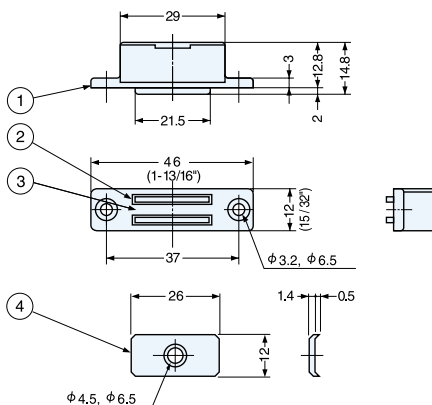
No.	Part Name	Material	Finish/Color
①	Housing	Polycarbonate	White, Grey
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Neodymium	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-110NF/WHT	8 (17.6 lbs)	10	100	800
MC-110NF/GR	8 (17.6 lbs)	10	100	800

MAGNETIC CATCH



MC-0051



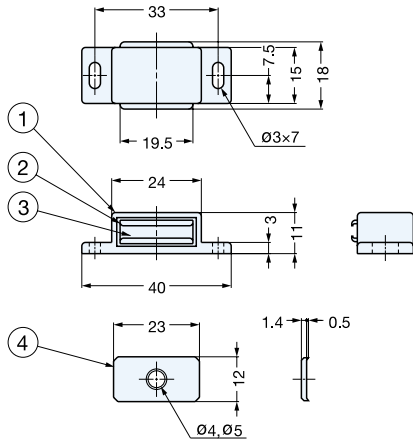
No.	Part Name	Material	Finish/Color
①	Housing	ABS	Black
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-0051	5.5 (12 lbs)	17	50	500

MAGNETIC CATCH



FM20S



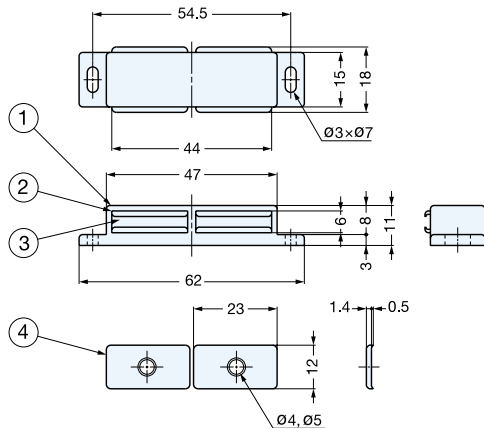
No.	Part Name	Material	Finish/Color
①	Housing	Polyethylene	Ivory
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.	Magnetic Force (kg)	Weight (g)	Screw	Box (pcs)	Carton (pcs)
FM20S	1 (2.2 lbs)	15	3	36	720

MAGNETIC CATCH



FM20W



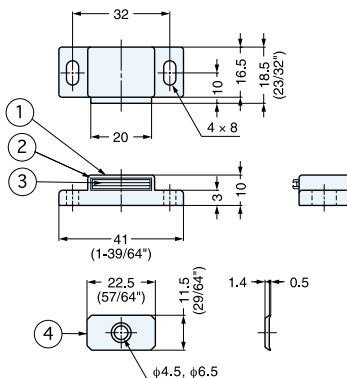
No.	Part Name	Material	Finish/Color
①	Housing	Polyethylene	Ivory
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.	Magnetic Force (kg)	Weight	Screw	Box (pcs)	Carton (pcs)
FM20W	1 (2.2 lbs)	30	4	24	480

MAGNETIC CATCH



MC0097



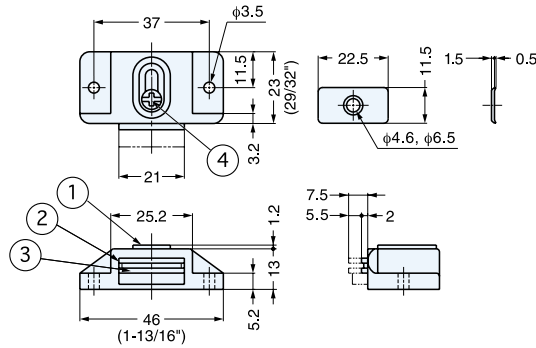
No.	Part Name	Material	Finish/Color
①	Housing	Polyethylene	Black/White
②	Yoke	Steel	Yellow Zinc Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Yellow Zinc Chromate

Item No.			Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
White	Black	Brown				
MC0097/WHT	MC0097/BLK	MC0097/BR	1.5 (3.3 lbs)	12	100	1000
MC0097/WHT-1	MC0097/BLK-1	MC0097/BR-1	3.5 (7.7 lbs)	12	100	1000

MAGNETIC CATCH



MC-84



• Position adjustable

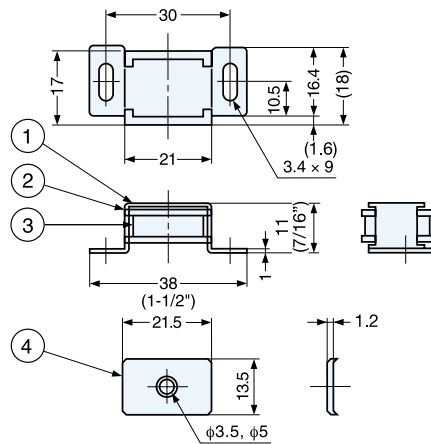
No.	Part Name	Material	Finish/Color
①	Housing	ABS	Black/Ivory
②	Yoke	Steel	Bronze/Nickel
③	Magnet	Ferrite	-
④	Screw	Steel	Bronze/Nickel

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-84/IVY	3 (6.6 lbs)	18	100	1000
MC-84/BLK	3 (6.6 lbs)	18	100	1000

MAGNETIC CATCH



SUPER-78



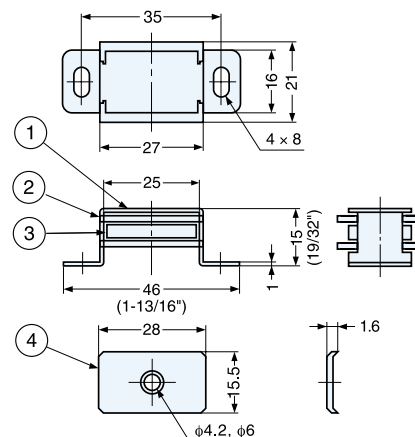
No.	Part Name	Material	Finish/Color
①	Housing	Aluminum	Brown Baked Lacquered
②	Yoke	Steel	Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Chromate

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SUPER-78	0.8 (1.7 lbs)	17	36	720

MAGNETIC CATCH



SUPER-88



No.	Part Name	Material	Finish/Color
①	Housing	Aluminum	Alumite
②	Yoke	Steel	Chromate
③	Magnet	Ferrite	-
④	Counterplate	Steel	Chromate

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SUPER-88	1.5 (3.3 lbs)	28.5	24	720

MAGNETIC CATCH (W/SWITCH)

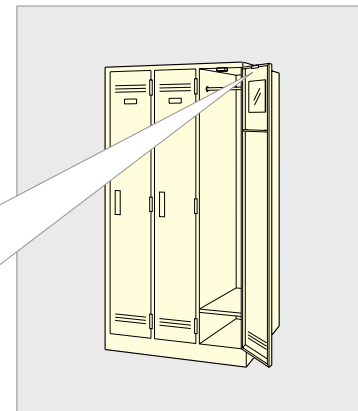
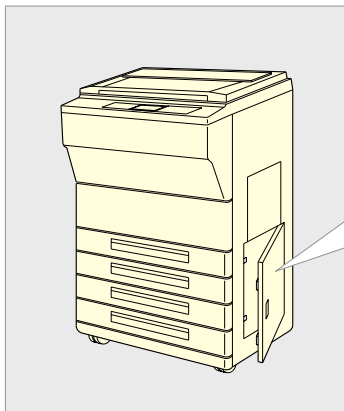
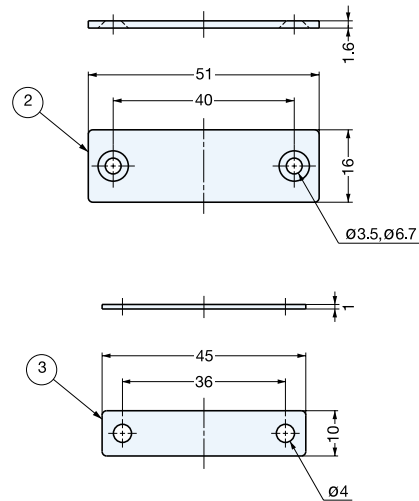
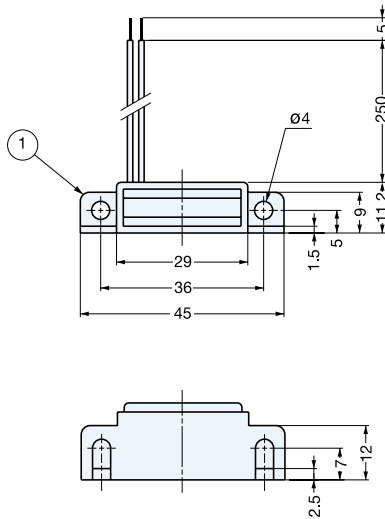
SMC-101B, 103A, 103B



- Reed switch built-in magnetic catch allows long-term, trouble free service.
- Designed for use in proximity-sensing applications, such as detecting when a door is open. (Not for use on safety-guard doors.)
- Use provided back plate when stationary part is non-magnetic material (aluminum, wood, glass etc.).
- Type A: Switch opens when counter plate and magnet are separated.
- Type B: Switch closes when counter plate and magnet are separated.

No.	Part Name	Material	Finish
①	Housing	Polycarbonate	Black
②	Counterplate	Steel	Nickel
③	Backplate		

Max. Wattage	10 W
Max. Load Rating	0.5 A DC
Max. Input Voltage	100V DC
Max. Electric Resistance	0.15 Ω
Operating Temperature	0 ~ 60°C (32~140°F)
Wire	UL1007 AWG#26



Item No.	Type	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SMC-101B	B	1 (2.2 lbs)	28	50	200
SMC-103A	A	3 (6.6 lbs)	28	50	200
SMC-103B	B		28	50	200

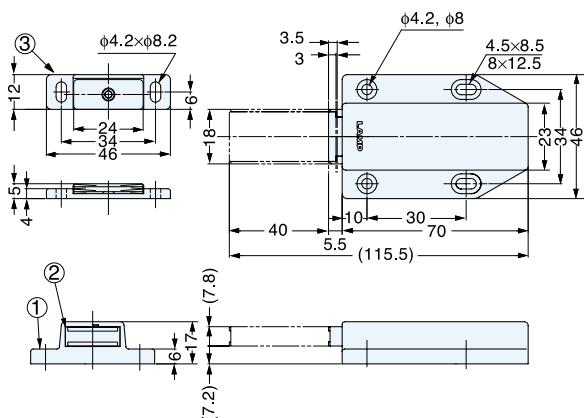
MAGNETIC TOUCH LATCH (LONG STROKE)


ML-120

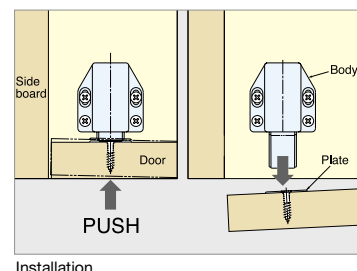
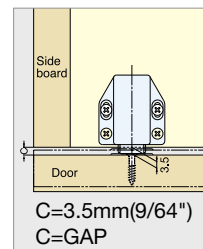

- Long stroke for medium size doors.

No.	Part Name	Material	Finish/Color
①	Body	ABS	White, Brown
②	Latch	Steel	Yellow Zinc Chromate
③	Counterplate		

Note: For overlay door, allow a 3.5mm (9/64") gap between door and cabinet frame for pushing space.



Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
ML-120/WHT	2.4 (5.2 lbs)	53	20	200
ML-120/BRN	2.4 (5.2 lbs)	53	20	200

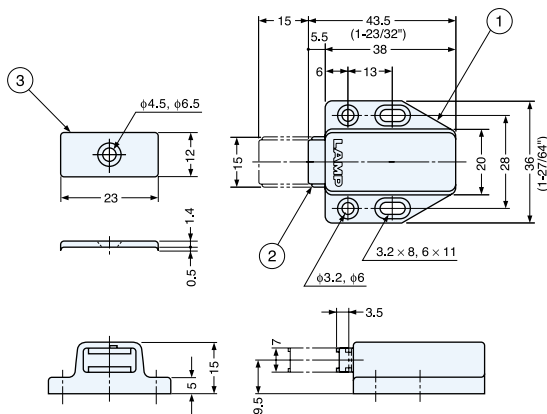


MAGNETIC TOUCH LATCH

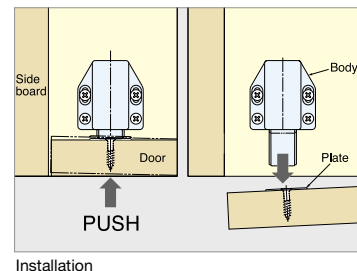
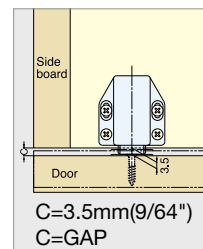

ML-80


No.	Part Name	Material	Finish/Color
①	Body	ABS	White, Brown, Black
②	Latch	Steel	Yellow Zinc Chromate
③	Counterplate		

Note: For overlay door, allow a 3.5mm (9/64") gap between door and cabinet frame for pushing space.



Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
ML-80/WHT	1.6 (3.5 lbs)	22	20	400
ML-80/BRN	1.6 (3.5 lbs)	22	20	400
ML-80/BLK	1.6 (3.5 lbs)	22	20	400



MAGNETIC TOUCH LATCH

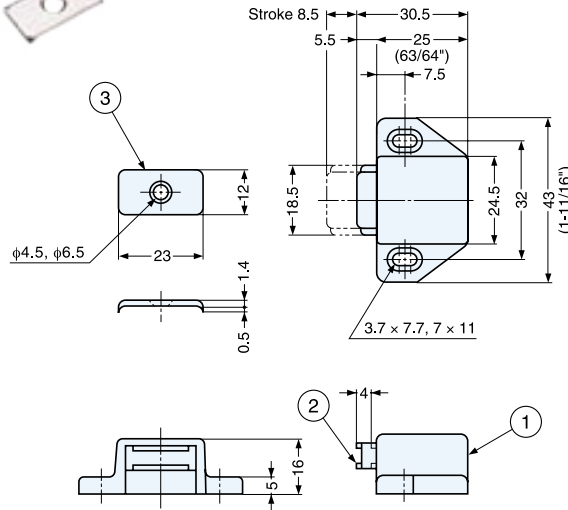


ML-30S



ML-30S/WHT

ML-30S/BRN



No.	Part Name	Material	Finish/Color
①	Body	ABS	White, Brown
②	Latch	Steel	Nickel
③	Counterplate		

Note: One-touch closing and opening.
For overlay door, allow a 4mm (5/32") gap between door and cabinet frame for pushing room.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
ML-30S/WHT	1.2 (2.6 lbs)	22.5	50	750
ML-30S/BRN	1.2 (2.6 lbs)	22.5	50	750

MAGNETIC TOUCH LATCH

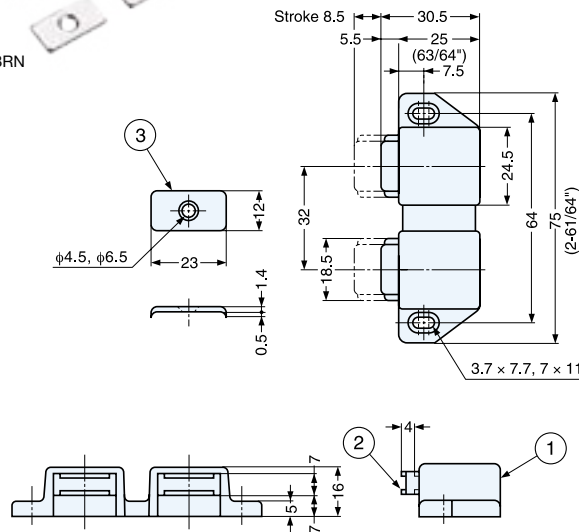


ML-30W



ML-30W/WHT

ML-30W/BRN



No.	Part Name	Material	Finish/Color
①	Body	ABS	White, Brown
②	Latch	Steel	Nickel
③	Counterplate		

Note: One-touch closing and opening.
For overlay door, allow a 4mm (5/32") gap between door and cabinet frame for pushing room.

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
ML-30W/WHT	1.2 (2.6 lbs)	42	30	450
ML-30W/BRN	1.2 (2.6 lbs)	42	30	450

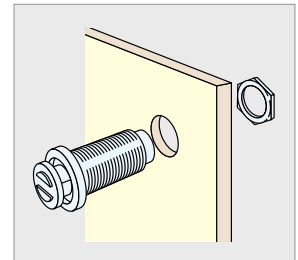
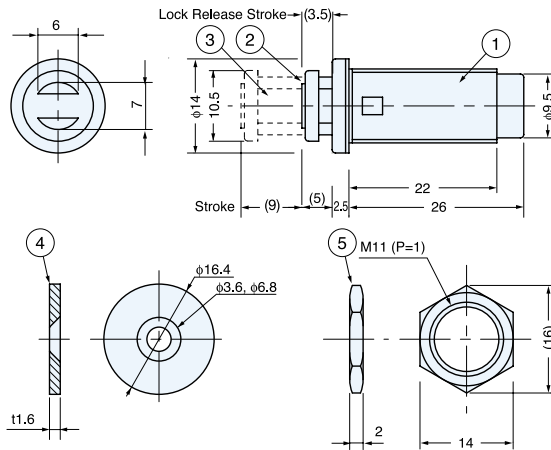
MAGNETIC TOUCH LATCH



PM-4N HB



No.	Part Name	Material	Finish/Color
①	Body	ABS	Black
②	Yoke	Steel	Black Nickel
③	Magnet	Ferrite	-
④	Counterplate	Steel	GB
⑤	Nut		Yellow Zinc Chromate



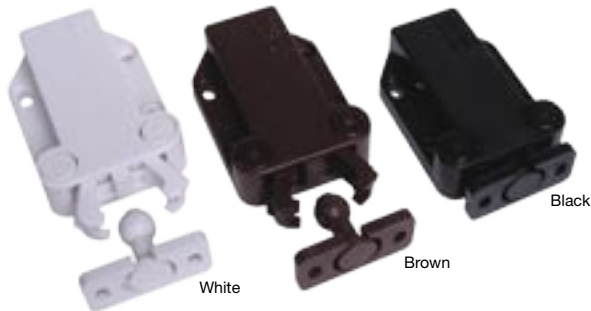
Installation

Item No.	Magnetic Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
PM-4N HB	1.3 (2.9 lbs)	9	350	2800

NON-MAGNETIC TOUCH LATCH



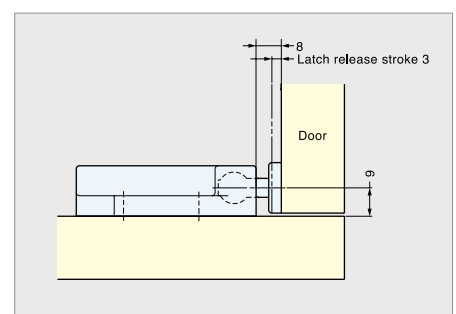
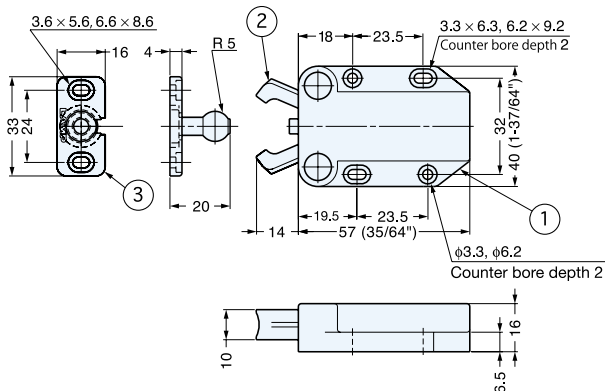
MC-37



• Strong retaining force.

No.	Part Name	Material	Color
①	Body	ABS	Black
②	Arm	Polyacetal	Brown
③	Strike	Polyamide	White

Note : For overlay door, allow 3mm (1/8") gap between door and cabinet frame for push space. Pulling the door with excessive force without unlatching the unit may damage the mechanism. Constant loading of over 4kgf or excessive pushing or pulling, is not recommended.



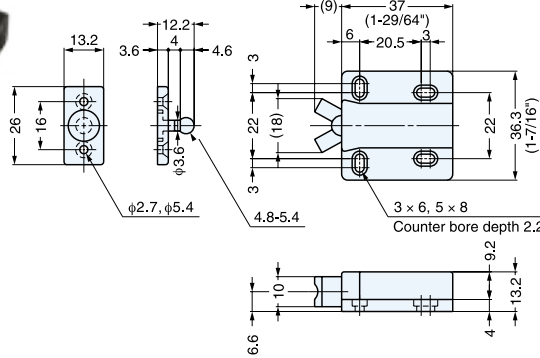
Installation

Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-37/BLK-1	8 (17.6 lbs)	24	30	300
MC-37/BRN-1	8 (17.6 lbs)	24	30	300
MC-37/WHT-1	8 (17.6 lbs)	24	30	300

NON-MAGNETIC TOUCH LATCH



MC-28



Material	Color
ABS	Black

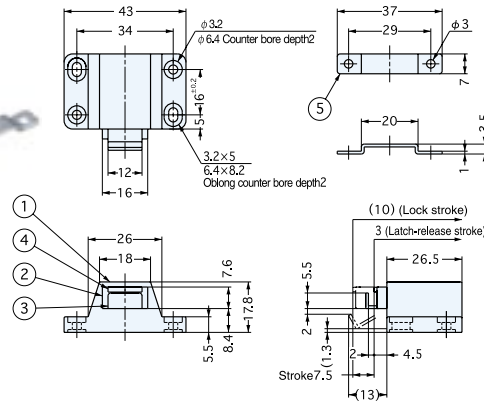
Note: For overlay door, allow 3mm (1/8") gap between door and cabinet frame for push space. Pulling door with excessive force without unlatching the unit may damage the mechanism. Constant loading of over 3kgf or excessive pushing or pulling, is not recommended.

Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MC-28	3 (6.6 lbs)	15	50	500

NON-MAGNETIC TOUCH LATCH



PR-21P



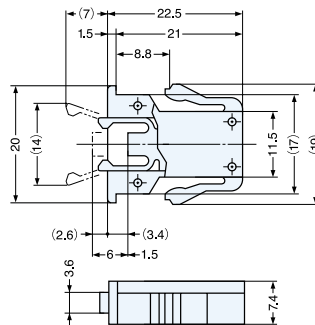
• Strong retaining force.

No.	Part Name	Material	Finish/Color
①	Housing	ABS	Black
②	Slide	Polyacetal	
③	Arm	Steel	Brown
④	Yoke		GB
⑤	Strike		Chromate

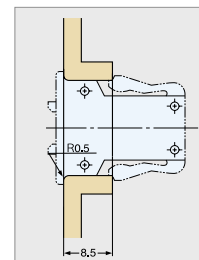
Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
PR-21P/BLK	10 (22 lbs)	16.3	100	800

NON-MAGNETIC TOUCH LATCH

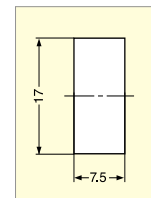
PR-3PK



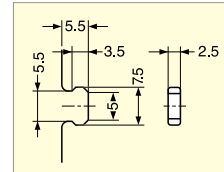
Material	Color
ABS	Black



Installation



Cut Out Dimensions



Recommended Strike Dimension

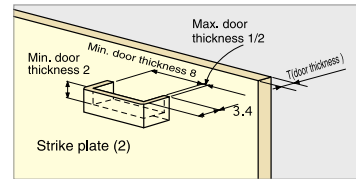
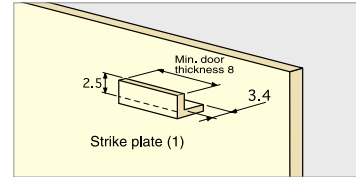
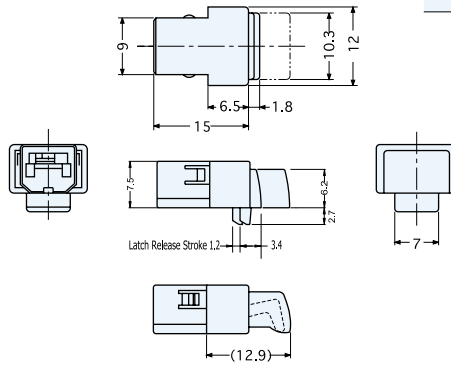
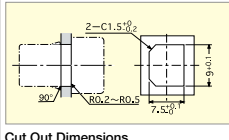
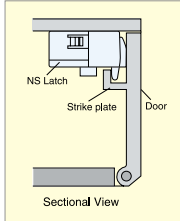
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
PR-3PK	2.5	400	4000

NON-MAGNETIC MINI TOUCH LATCH

NS-2



Material	Color
Polycarbonate	Black



Recommended Strike Dimension

Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)
NS-2	1 (2.2 lbs)	1.1	500

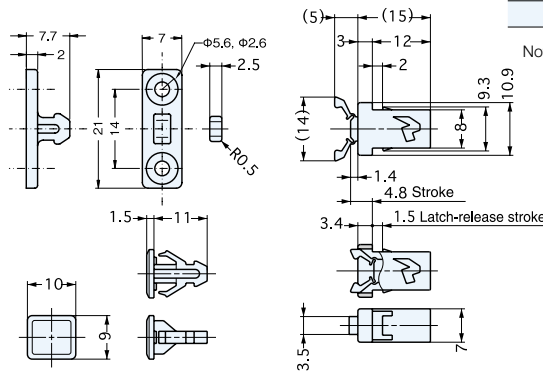
NON-MAGNETIC MINI TOUCH LATCH

PR-4PK



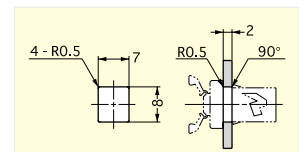
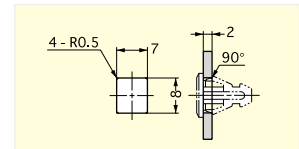
Strike for wood (Surface mount, optional)

Strike for metal (Snap-in, optional)



Part Name	Material	Color
Body	Polyacetal	Black
Strike	Polyamide	

Note: Strikes sold separately.



Cut Out Dimensions

Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
PR-4PK	1.2 (2.6 lbs)	0.7	1000	8000

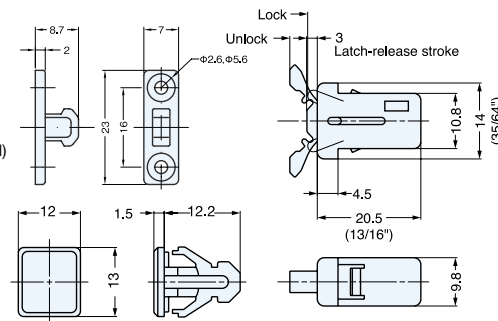
NON-MAGNETIC MINI TOUCH LATCH

YL-22



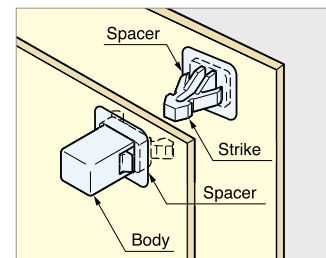
Strike for wood (Surface mount, included)

Strike for metal (Snap-in, optional)



Part Name	Material	Finish/Color
Body	Polyacetal	Black
Catch	Polyamide	
Spring	Steel	Chromate
Strike	Polyacetal	Black

Note: Strikes sold separately.



Installation

Item No.	Retaining Force (kg)	Weight (g)	Box (pcs)
YL-22	3.5 (7.7 lbs)	2.3	500

STAINLESS STEEL TENSION CATCH

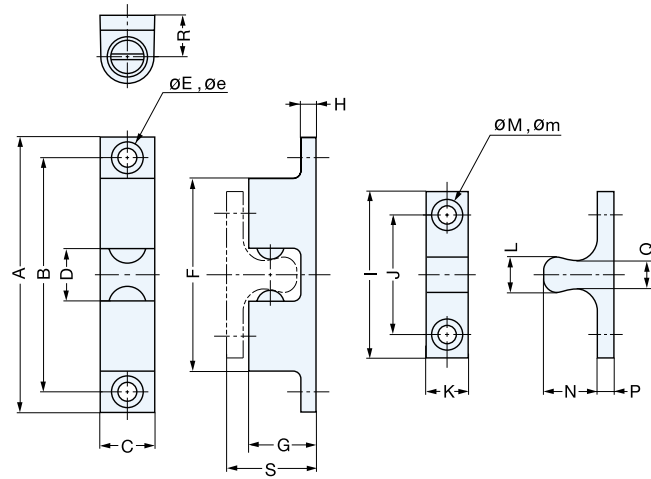


BCTS-40, 50, 70



Material	Finish
316 Stainless Steel	Polished

*Spring material:304 Stainless Steel.



Item No.	Push in Force (kg)		Pulling Force (kg)		Weight (g)	Box (pcs)	Carton (pcs)
BCTS-40	2.0	(4.4 lbs)	1.3	(2.9 lbs)	18	50	600
BCTS-50	2.3	(5.0 lbs)	1.8	(3.9 lbs)	30	50	600
BCTS-70	5.7	(12.5 lbs)	3.9	(8.5 lbs)	83	25	300

Item No.	A	B	C	D	E	e	F	G	H	I	J	K	L	M	m	N	P	Q	R	S
BCTS-40	43	35	8	5.9	3.2	6.2	28.4	10	2.5	25	16	7.5	4.5	3.2	6.2	8.5	2.5	2.7	6	13.5
BCTS-50	50	40	10	7.5	4.2	8.2	31.5	12.2	2.9	30	20	9	6	4.2	8.2	10.3	2.9	3.8	7.7	15.9
BCTS-70	70	60	13	13	4.2	8.2	51	17	4	42	30	10.5	10	4.2	8.2	15	4	8	10.5	23

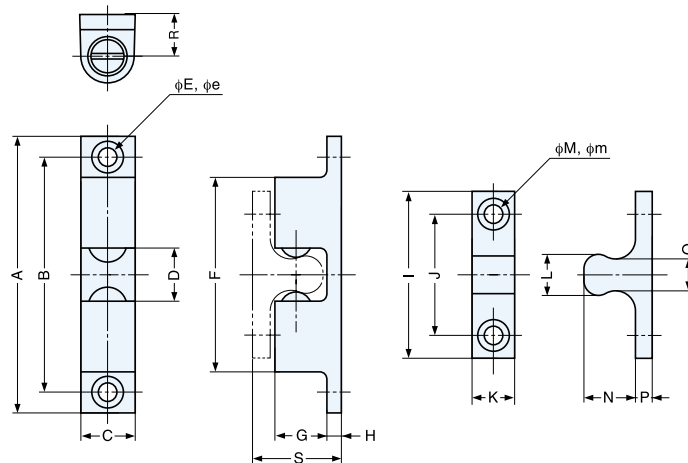
TENSION CATCH



BCT-40, 50,70



Material	Finish
Zinc Alloy	Chrome



Item No.	Push in Force (kg)		Pulling Force (kg)		Weight (g)	Box (pcs)	Carton (pcs)
BCT-40	4.4	(9.7 lbs)	3.0	(6.6 lbs)	16	100	400
BCT-50	4.1	(9.0 lbs)	3.3	(7.3 lbs)	26	100	400
BCT-70	4.6	(10.1 lbs)	3.5	(7.7 lbs)	70	50	200

Item No.	A	B	C	D	E	e	F	G	H	I	J	K	L	M	m	N	P	Q	R	S
BCT-40	42.5	35	8	6.3	3.2	6.2	26.7	7.5	2.5	25	16	7.5	5.5	3.2	6.2	8.8	2.5	3.7	6.5	14 (35/64")
BCT-50	50	40	10	8.4	4.2	8.2	29.8	9.5	3	30	20	9	7.3	4.2	8.2	9.8	2.5	4.7	7.4	16 (5/8")
BCT-70	70	60	13.5	13	4.2	8.2	49	13	4	42	30	10.5	11	4.2	8.2	14.2	3	8.2	11	21.2 (27/32")

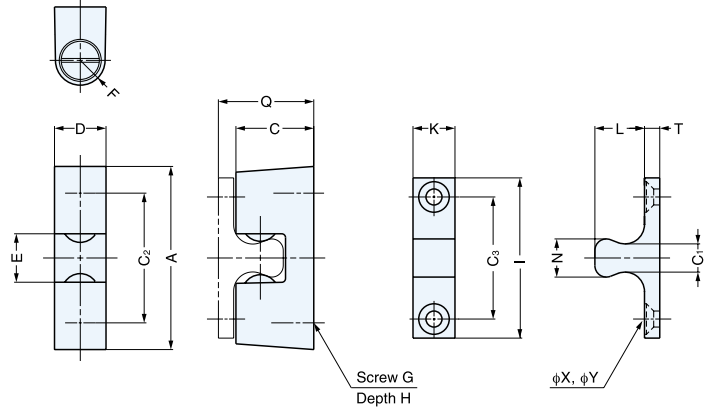
TENSION CATCH



BCU-40, 70



Material	Finish
Zinc Alloy	Chrome



Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
BCU-40	3.6 (7.9 lbs)	2.4 (5.3 lbs)	18	100	400
BCU-70	4.1 (9.0 lbs)	3.9 (8.6 lbs)	75	50	200

Item No.	A	C	C ₁	C ₂	C ₃	D	E	F	G	H	I	K	L	N	Q	T	X	Y
BCU-40	28.5 (1-1/8")	12.5	3	20	16	8.3 (21/64")	6.5	R4	M3	5	24	8	9	5	15.7	3	3.2	6.2
BCU-70	48 (1-57/64")	20.5	7.3	34	32	13.5 (17/32")	12.7	R6.5	M5	6	42	11	13	10	24.9	4	4.2	8.2

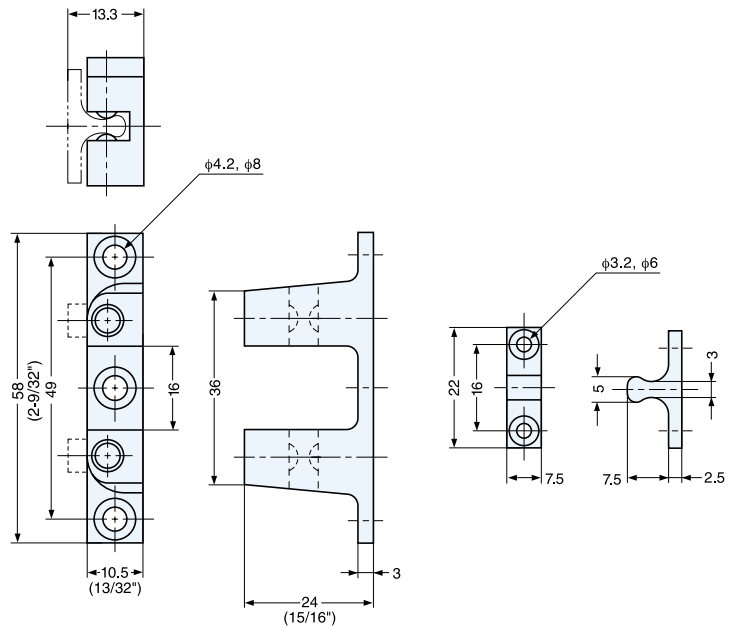
TENSION CATCH



BCT-60W



Material	Finish
Zinc Alloy	Chrome

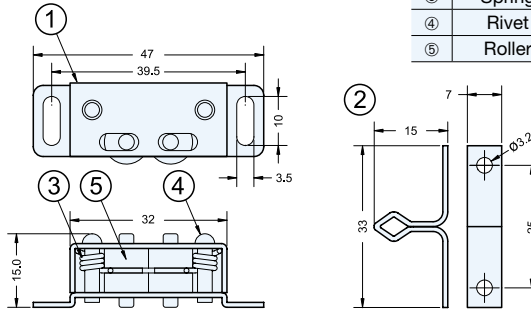


Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
BCT- 60W	3.2 (7 lbs)	2.7 (5.9 lbs)	39.5	80	320

STAINLESS STEEL ROLLER CATCH



STBRC



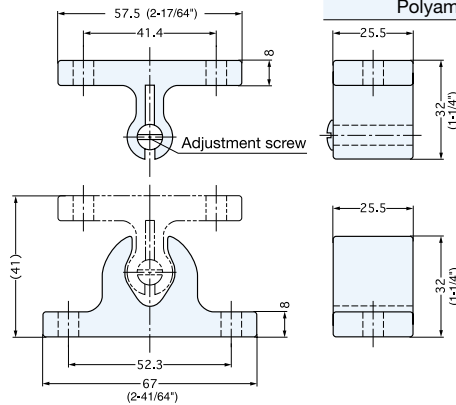
No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Plain
②	Strike		
③	Spring		
④	Rivet	430 Stainless Steel	
⑤	Roller	Polyethylene	White

Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
STBRC	1.0 (2.2 lbs)	2.7 (6.0 lbs)	18	60	1200

ADJUSTABLE KNUCKLE CATCH



1-555, 3-555



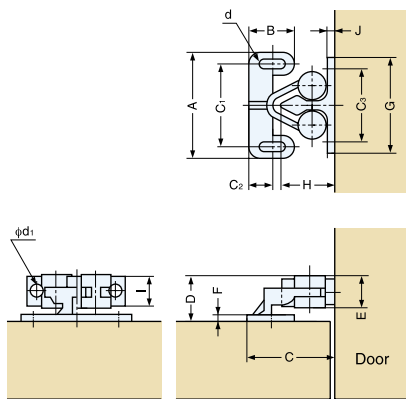
Material	Color
Polyamide	White (WHT), Black (BLK)

Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
1-555-2/WHT	3-555-4/BLK	13~26 (29~57 lbs)	8~20 (18~44 lbs)	42	20
					200

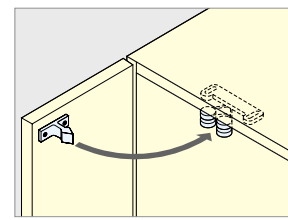
ROTARY CATCH



6900, 6901



Part Name	Material	Color
Catch	Polyacetal	White (WHT)
Strike		Brown(BRN) (6901 only)
Roller	Polyethylene	



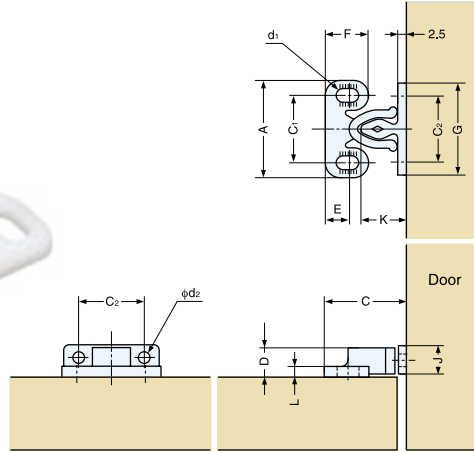
Installation

Item No.	Push in Force (kg)	Pulling Force (kg)	A	B	C	D	E	F	C ₁	C ₂	C ₃	G	H	I	J	d	d ₁	Weight (g)	Box (pcs)	Carton (pcs)
6900	1.1 (2.4 lbs)	1.6 (3.5 lbs)	29 (1-9/64")	12	21.2	11.3	8	2	21.5	6	20	26	13.5	7.5	1.7	3.1×7	3	3	100	2000
6901	2.2 (4.8 lbs)	3.2 (7 lbs)	31.3 (1-15/64")	14	27.2	12.6	9	2.3	24.4	7.5	23.6	32	16.5	9	2	3.1×7	3.1	4	100	2000

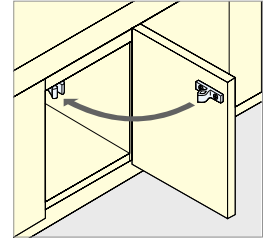
KNUCKLE CATCH



D-CATCH



Part Name	Material	Color
Catch	Polyacetal	Natural White(WHT)
Strike	Polyamide	Black (BLK)



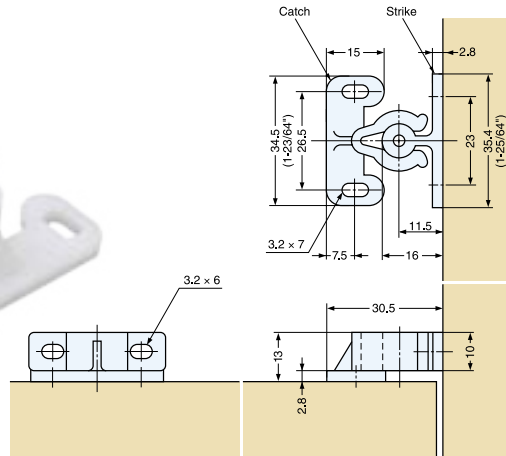
Installation

Item No.	Push in Force (kg)	Pulling Force (kg)	A	C ₁	C	D	E	F	G	C ₂	J	K	L	d ₁	d ₂	Weight (g)	Box (pcs)	Carton (pcs)
D-CATCH 24	3.1(6.8 lbs)	2.7(5.9 lbs)	24 (15/16")	17	21.5	7.5	6.8	12	22 (7/8")	15.5	7.5	12.5	2	2.5×5.5	2.5	1.5	100	2000

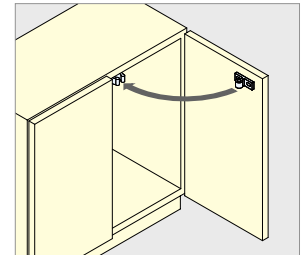
KNUCKLE CATCH



K-CATCH



Part Name	Material	Color
Catch	Polyacetal	White
Strike	Polyamide	



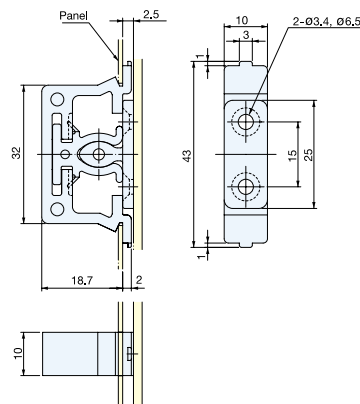
Installation

Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
K-CATCH	5.7(12.5 lbs)	7.1(15.6 lbs)	4.5	100	1000

SNAP-IN KNUCKLE CATCH



JCU-F



- Snap-in type body for easy installation.
- Internal catch body slides 1.5mm for better alignment.

Part Name	Material	Color
Catch	Polyacetal	White
Strike	Polyamide	

Panel Thickness	Cut Out Dimensions
0.8mm	32.3×10.1
1.0mm	32.9×10.1
1.2mm	33.8×10.1

Item No.	Push in Force (kg)	Pulling Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
JCU-F	2(4.4 lbs)	2(4.4 lbs)	5.2	40	800

PUSH KNOB LATCH

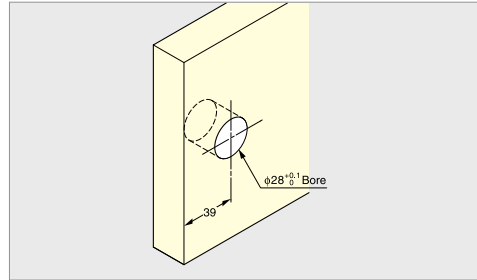


TLP

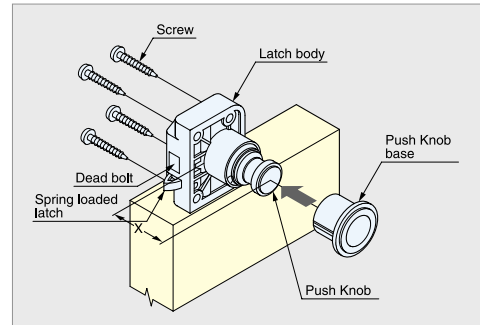
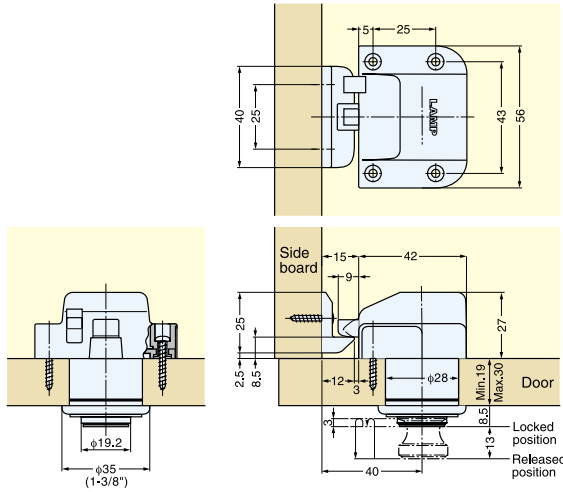


- Door Thickness: 19 mm~30 mm (3/4" ~ 1-3/16")
- Set Items: TLP-LBM/WHT (Latch Body) + TLP-BB (Push Knob)
- Holding Force : 20kg (44 lbs)
- Non-handed

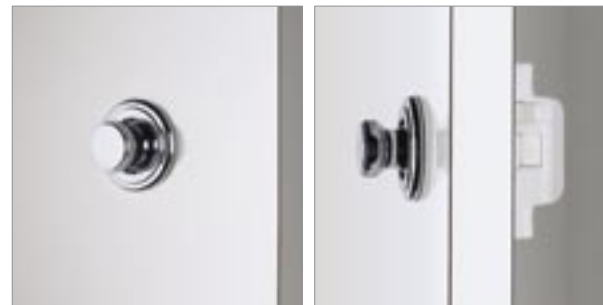
Part Name	Material	Finish	
		Knob	Latch
Latch Body	Polyamide	Satin Brass,	White
Push Button	Brass	Satin Nickel,	
Push Button Base	Zinc Alloy	Polished Brass, Chrome	



Bore Dimensions



Installation



Supplied with 2 threaded screws (L=24mm and 30mm).

Threaded screw	Door Thickness	Dimension X
L=24	19 (3/4")	40.5 (1-19/32")
	20 (25/32")	41.5 (1-5/8")
	21 (53/64")	42.5 (1-43/64")
	22 (7/8")	43.5 (1-23/32")
	23 (29/32")	44.5 (1-3/4")
L=30	24 (15/16")	45.5 (1-51/64")
	25 (63/64")	46.5 (1-53/64")
	26 (1-1/32")	47.5 (1-7/8")
	27 (1-1/16")	48.5 (1-29/32")
	28 (1-3/32")	49.5 (1-61/64")
	29 (1-9/64")	50.5 (1-63/64")
	30 (1-3/16")	51.5 (2-1/32")

Item No.	Part Name	Holding Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TLP-BB/SB	Push Knob and Base	20 (44 lbs)	77	25	200
TLP-BB/SN			77		
TLP-BB/PB			77		
TLP-BB/CR			77		
TLP-LBM/WHT	Latch Body		33	10	100

PUSH KNOB LATCH



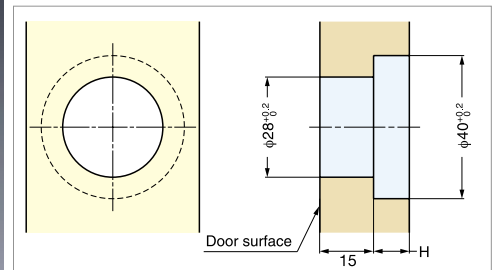
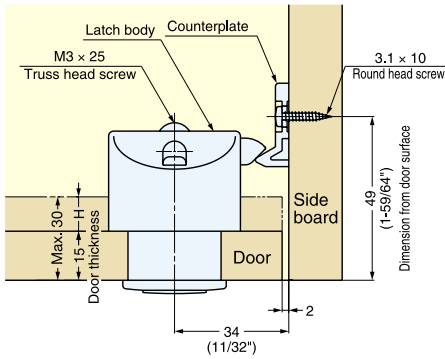
PKL-08



- Door Thickness: 15 mm~30 mm (19/32"~ 3/16"), for doors 13mm thick, use a 2mm plastic spacer (sold separately).
- Holding Force : 10kg (22 lbs)
- Non-handed

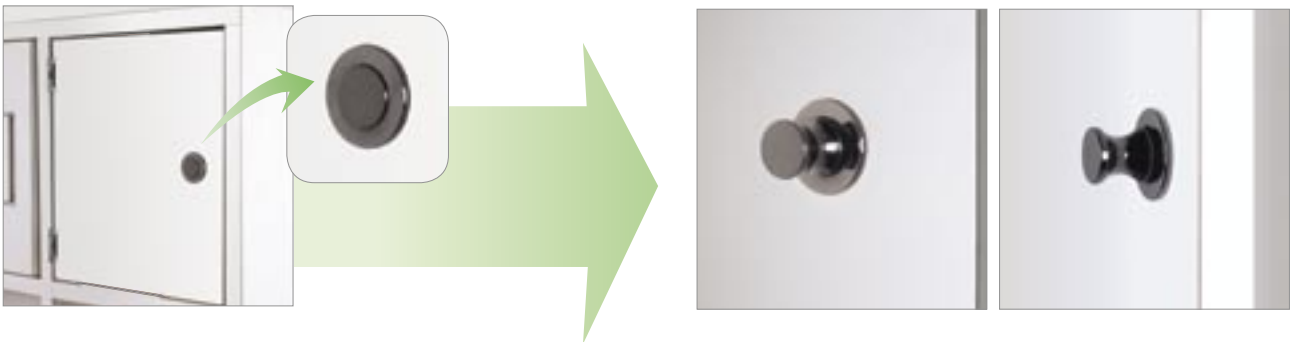
Part Name	Material	Finish
		Knob
Latch Body	ABS	Gold, Chrome, Black Nickel
Push Knob	Zinc Alloy	
Counterplate	ABS	

PAT.P



Bore Dimensions

- *Please specify latch body color when ordering.
- *Available in white (WHT) or black (BLK).
- *Latch body and push knob sold separately.



- For both inset and overlay door.
- Step 1: When the door is closed, the latch is engaged.
 - Step 2: Depress knob to the flush position to lock the latch.
 - Step 3: Depress knob again to the out position to unlock the latch.

Item No.	Part Name	Finish	Weight (g)	Box (pcs)	Carton (pcs)
PKL-08/GA	Push Knob	Gold	63	20	200
PKL-08/CR		Chrome	63	20	200
PKL-08/BN		Black Nickel	63	20	200
PKL-S/WHT	Latch Body	White	30	20	200
PKL-S/BLK		Black	30	20	200
PKL-Spacer/WHT	Spacer	White	2	500	-
PKL-Spacer/BLK		Black	2	500	-

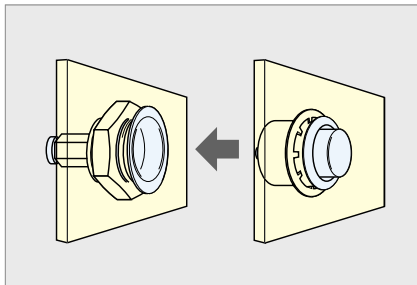
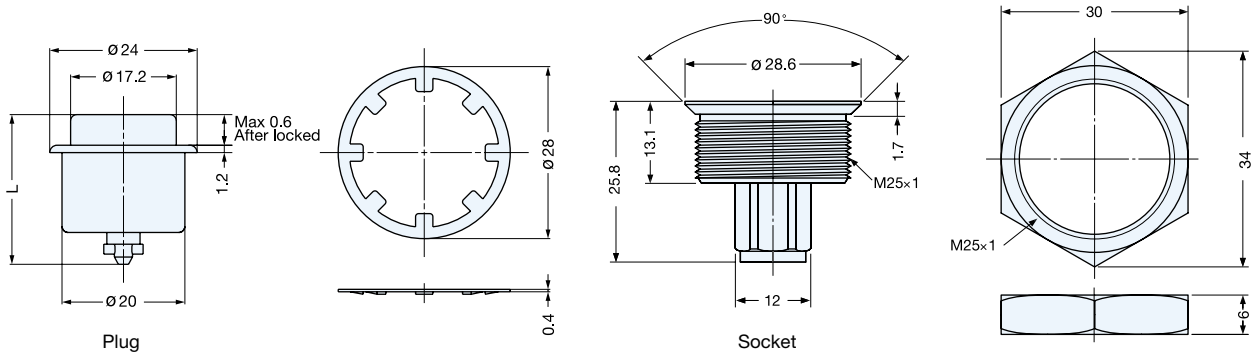
PUSH LOCK FASTENER (LARGE / FLUSH TYPE)

251F

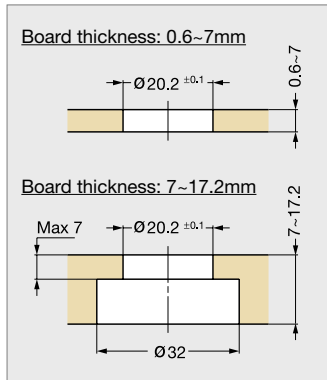


PAT.P

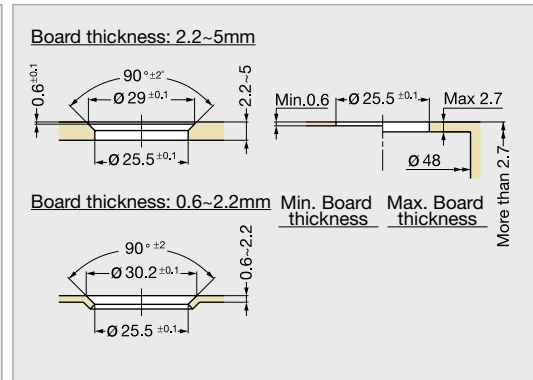
No.	Part Name	Material	Finish
①	Plug	Polyacetal	Black
②	Ring	Steel	
③	Socket	Polyacetal	
④	Nut		



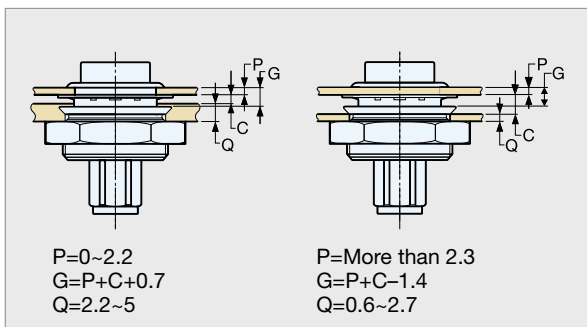
Installation



Preparation (Plug)



Preparation (Socket)



Grip Dimensions

Grip Dimensions:

	P	Q	Formula
251F	0~2.2	2.2~5	G=P+C+0.7
	Min.2.3	0.6~2.7	G=P+C-1.4

Item No.	Grip Dimension G	Plug Dimension L	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
251F-01-3	1.2 ~ 2	20.5	25 (55 lbs)	15	100	400
251F-02-3	2 ~ 2.8	21.3	25 (55 lbs)	15	100	400
251F-03-3	2.8 ~ 3.6	22.1	25 (55 lbs)	15	100	400

PUSH LOCK FASTENER (MINI / FLUSH TYPE)

252F

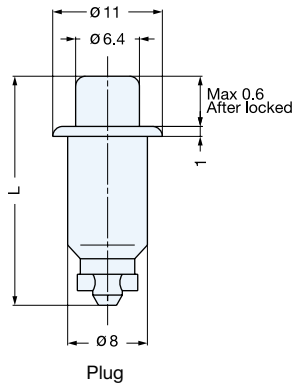
CATCHES & LATCHES

PUSH LOCK FASTENER

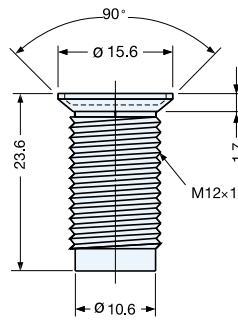
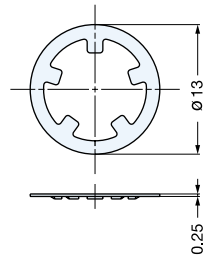


PAT.P

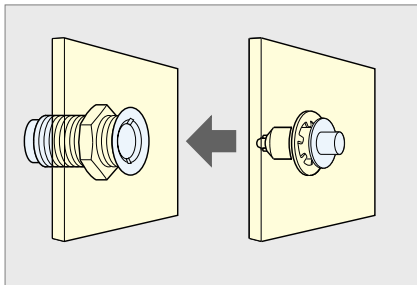
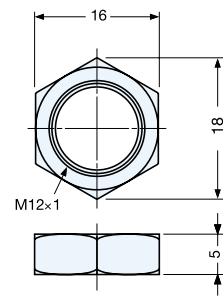
No.	Part Name	Material	Finish
①	Plug	Polyacetal	Black
②	Ring	Steel	
③	Socket	Polyacetal	
④	Nut		



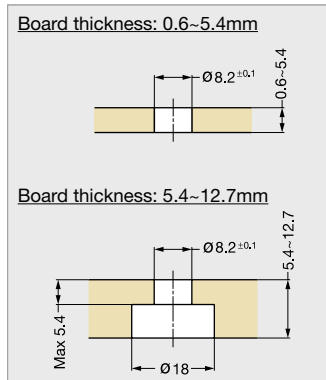
Plug



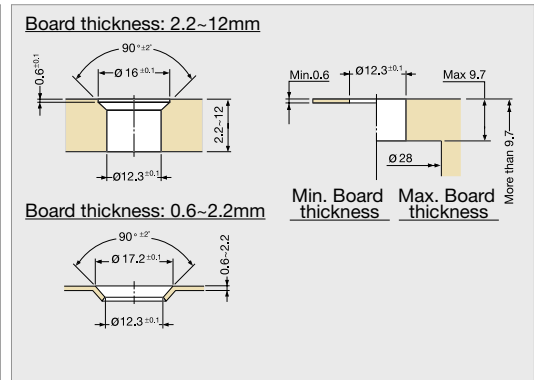
Socket



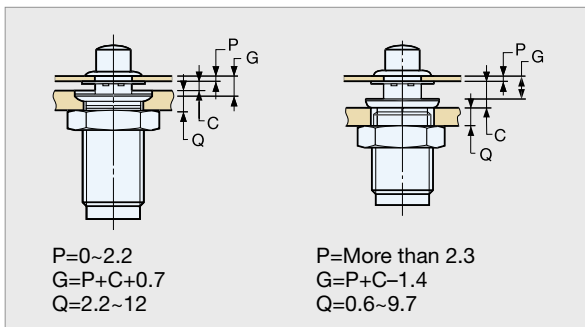
Installation



Preparation (Plug)



Preparation (Socket)



Grip Dimensions

P=0~2.2
G=P+C+0.7
Q=2.2~12

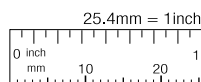
P=More than 2.3
G=P+C-1.4
Q=0.6~9.7

Grip Dimensions:

	P	Q	Formula
252F	0~2.2	2.2 ~ 12	G=P+C+0.7
	Min.2.3	0.6 ~ 9.7	G=P+C-1.4

Item No.	Grip Dimension G	Plug Dimension L	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
252F-01-3	1.2 ~ 2	18.3	15 (33 lbs)	6	500	2000
252F-02-3	2 ~ 2.8	19.1	15 (33 lbs)	6	500	2000
252F-03-3	2.8 ~ 3.6	19.9	15 (33 lbs)	6	500	2000

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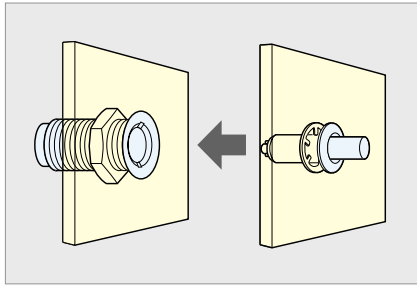
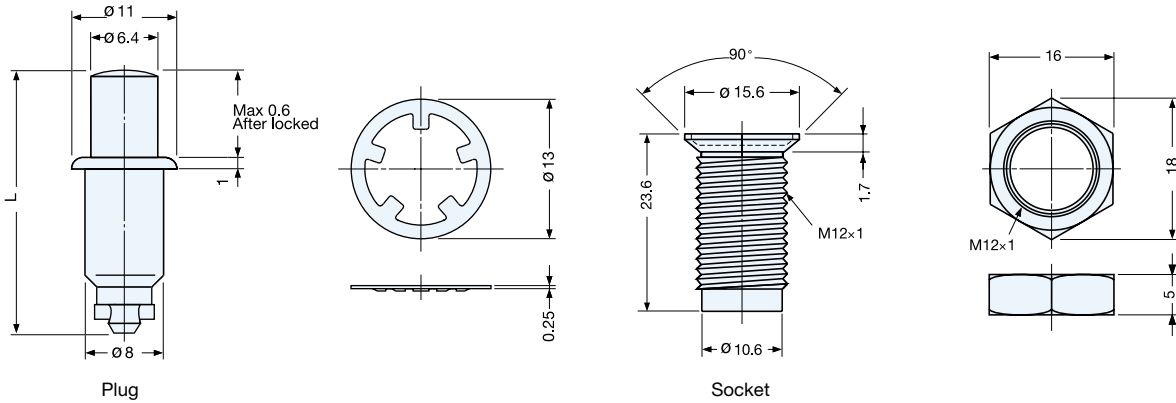
PUSH LOCK FASTENER (MINI / BUTTON TYPE)

255F

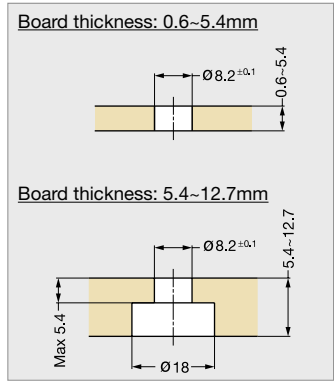


PAT.P

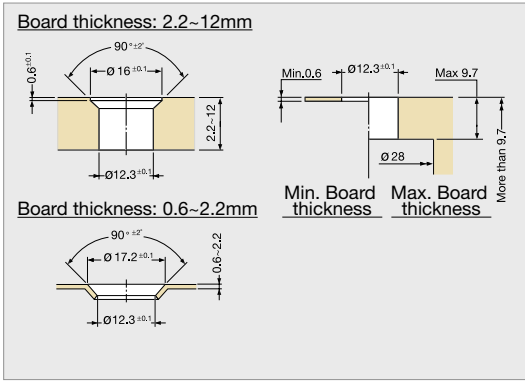
No.	Part Name	Material	Finish
①	Plug	Polyacetal	Black
②	Ring	Steel	
③	Socket	Polyacetal	
④	Nut		



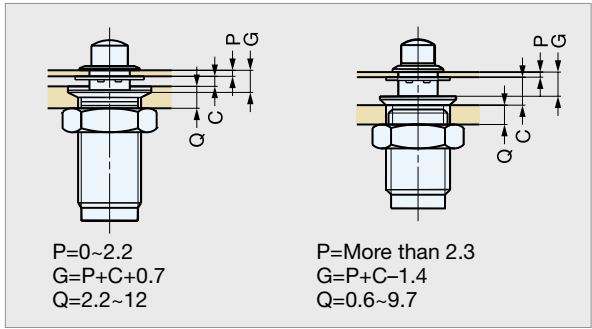
Installation



Preparation (Plug)



Preparation (Socket)



Grip Dimensions

Grip Dimensions:

	P	Q	Formula
255F	0-2.2	2.2-12	G=P+C+0.7
	Min.2.3	0.6-9.7	G=P+C-1.4

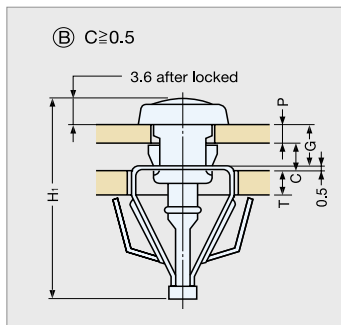
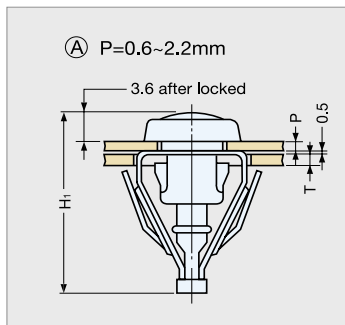
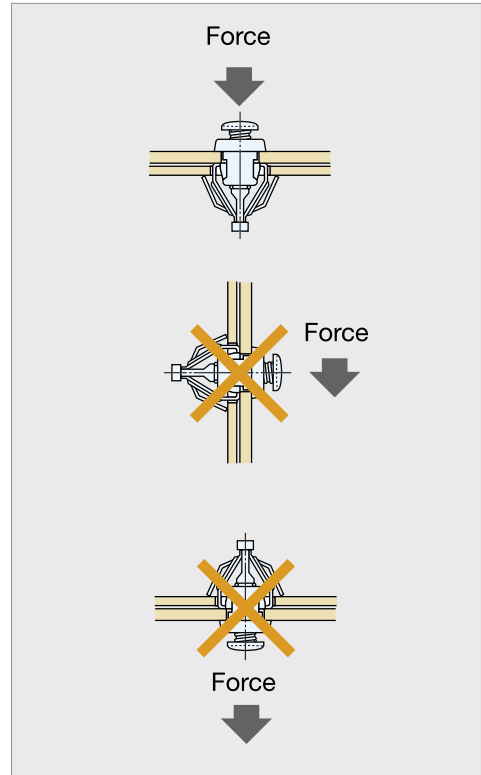
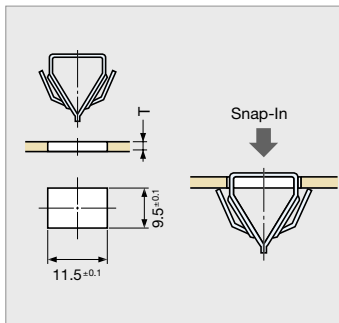
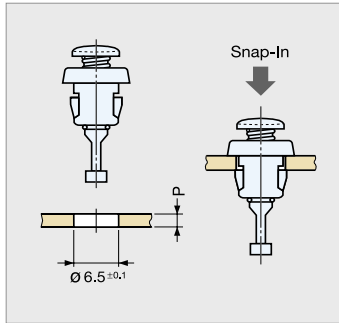
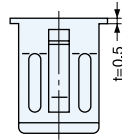
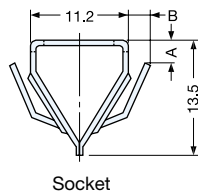
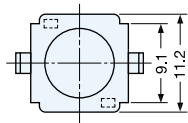
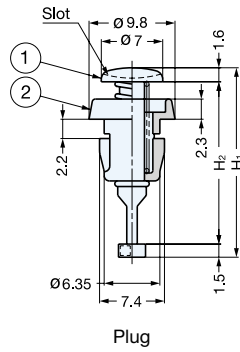
Item No.	Grip Dimension G	Plug Dimension L	Retaining Force (kg)	Weight (g)	Box (pcs)	Carton (pcs)
255F-01-3	1.2 ~ 2.8	23.5	15 (33 lbs)	6	500	2000
255F-03-3	2.8 ~ 4.4	25.1	15 (33 lbs)	6	500	2000
255F-05-3	4.4 ~ 6	26.7	15 (33 lbs)	6	500	2000

PUSH LOCK FASTENER (PUSH-TURN TYPE)

149 SERIES



PAT.P



(Table 1) (A)

Item No.	P	H ₁
149S06-1-1AA	0.6~1.4	19.2
149S06-2-1AA	1.4~2.2	20

(Table 2) (B)

Item No.	$G=P+C-0.5(C\geq 0.5)$	P	C
149S06-1-1AA	0.6~1.4	0.6~1.4	1.3~0.5
149S06-2-1AA	1.4~2.2	0.6~2.2	2.1~0.5

NOTE: $P+C-0.5\leq\text{Max. } G$
 (1) $P(0.8)+C(1.0)-(0.5)=G(1.3)\rightarrow 149S06-1-1AA$
 (2) $P(0.8)+C(1.3)-(0.5)=G(1.6)\rightarrow 149S06-2-1AA$

[Plug]

Item No.	H ₁	H ₂	Weight (g)	Box (pcs)	Carton (pcs)
149S06-1-AA	19.2	16.1	2	500	2000
149S06-2-AA	20	16.9	2	500	2000

[Socket]

Item No.	A	B	Borad Thickness T	Weight (g)	Box (pcs)
149R02-2-1AA	2.6	1.7	1.2~1.8	1	1000
149R02-3-1AA	3.6	1.9	1.8~2.6	1	1000

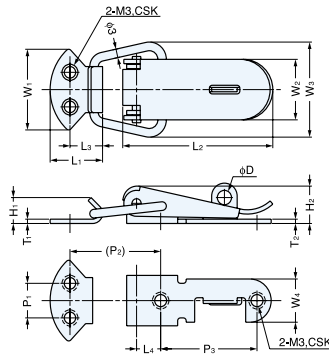
DRAW LATCH



PS



PS30A



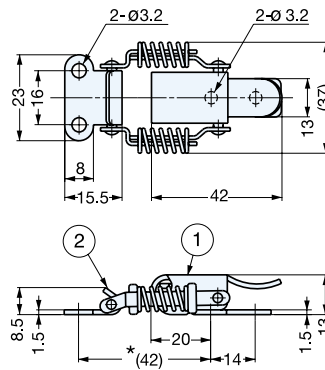
Material	Finish
304 Stainless steel	Polished

Item No.	Pad Lock Hole	L ₁	L ₂	L ₃	L ₄	W ₁	W ₂	W ₃	W ₄	H ₁	H ₂	T ₁	T ₂	P ₁	(P ₂)	P ₃	øD	Load Capacity (kg)	Weight (kg)
PS31A	With Hole	16	40	10	8	23	16	26	13	9	9.5	1.2	1	10	30	23	5	10 (22 lbs)	37
PS30A		18	53	11.5	8.5	28	21	32	15	10	13	1.5	1.5	12	33	34	5.5	15 (33 lbs)	35
PS31	Without Hole	16	40	10	8	23	16	26	13	9	9.5	1.2	1	10	30	23	-	10 (22 lbs)	19
PS30		18	53	11.5	8.5	28	21	32	15	10	13	1.5	1.5	12	33	34	-	15 (33 lbs)	38

SPRING LOADED DRAW LATCH



SCC-40/SS



No.	Part Name	Material	Finish
①	Body	304 Stainless steel	Polished
②	Counterplate		

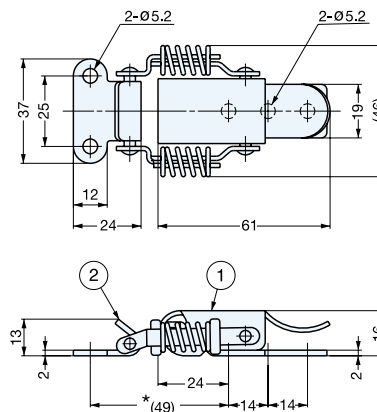
*Dimension shown is in case of clamping force "0".

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
SCC-40/SS	42	100	400

SPRING LOADED DRAW LATCH



SCC-60/SS



No.	Part Name	Material	Finish
①	Body	304 Stainless steel	Polished
②	Counterplate		

*Dimension shown is in case of clamping force "0".

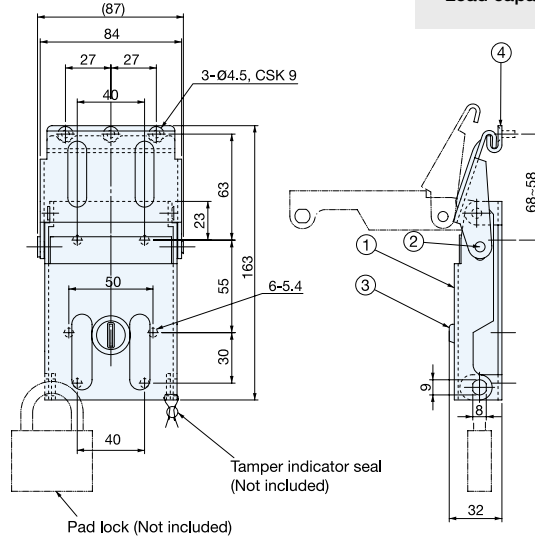
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
SCC-60/SS	85	40	160

DRAW LATCH



THF-75

- With safety lever.
- Slide the safety lever to open.
- Includes a function to allow use for pad lock or tamper indicator seals. (Pad lock and wire not included.)
- Load capacity : 75kg (165 lbs)



No.	Part Name	Material	Finish
①	Body	Steel	Yellow Zinc Chromate
②	Pin	304 Stainless Steel	-
③	Safety Lever		Plain
④	Counterplate	Steel	Yellow Zinc Chromate

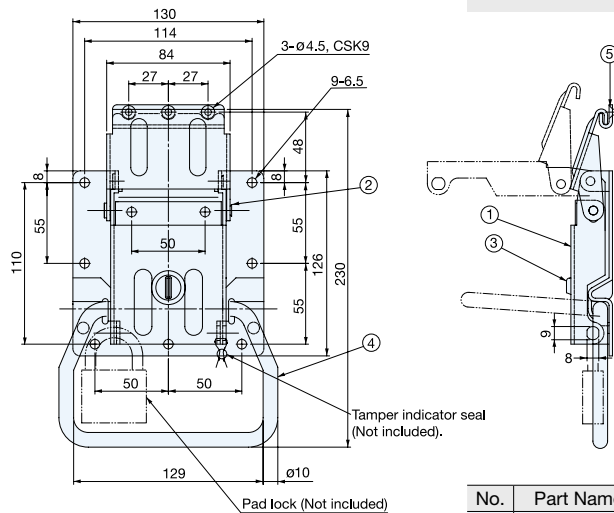
Item No.	Load Capacity (kg)	Weight (g)
THF-75	75 (165 lbs)	657

DRAW LATCH (W/HANDLE)



THF-100

- With handle and safety lever.
- Slide safety lever and lift latch to open.
- Spring loaded to hold handle in retracted position.
- Includes a function to allow use for pad lock or tamper indicator seals. (Pad lock and wire not included.)
- Load capacity : 100kg (220 lbs)



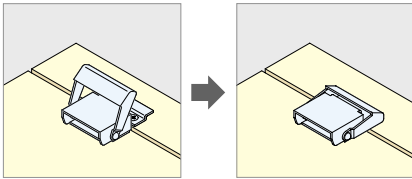
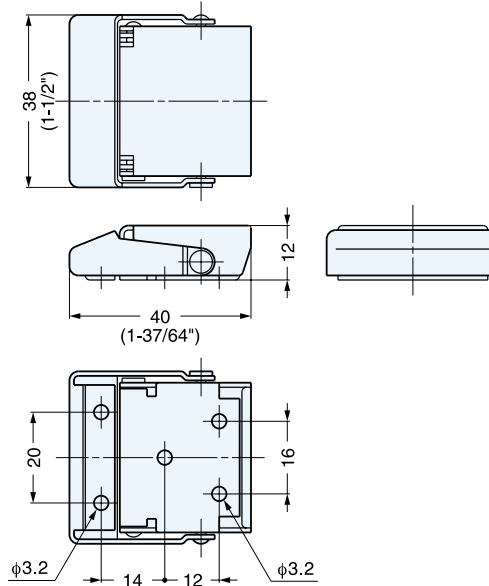
No.	Part Name	Material	Finish
①	Body	Steel	Yellow Zinc Chromate
②	Pin	304 Stainless Steel	-
③	Safety Lever		Plain
④	Handle	Steel	Yellow Zinc Chromate
⑤	Counterplate		

Item No.	Load Capacity (kg)	Weight (g)
THF-100	100 (220 lbs)	1064

DRAW LATCH



STF-40



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish	Recommended Screw
STF-40	30	30	300	304 Stainless Steel	Polished	M3

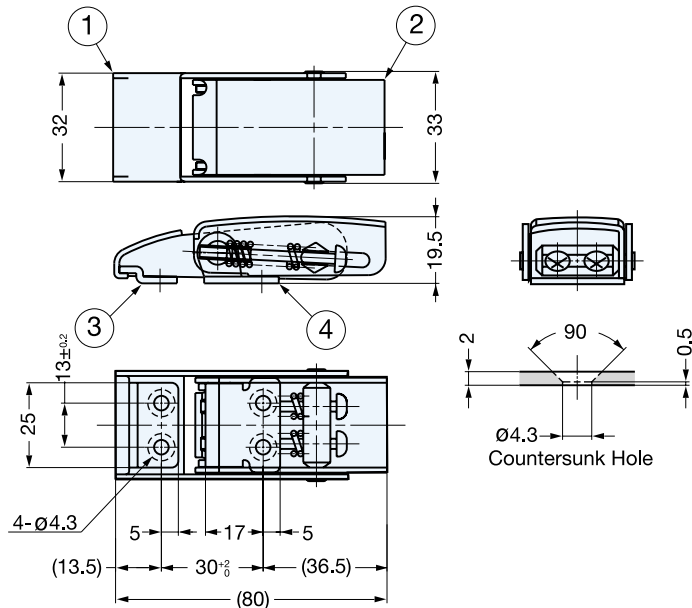
DRAW LATCH (SPRING LOADED)



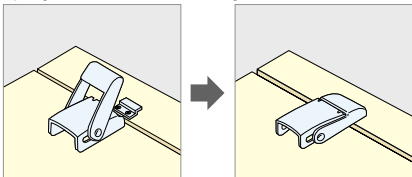
STF-80



PAT.P



Spring Loaded Latch. Durable against vibration



Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
STF-80	80 (176 lbs)	110	12	180

No.	Part Name	Material	Finish
①	Body A	304 Stainless Steel	Satin
②	Body B		
③	Counterplate		
④	Mounting Plate		Polished

Recommended Screw : M4

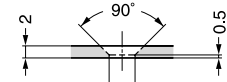
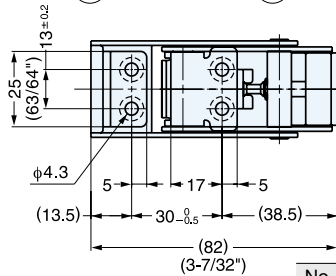
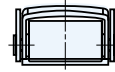
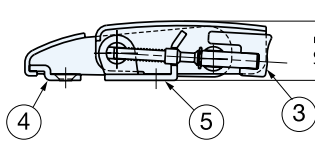
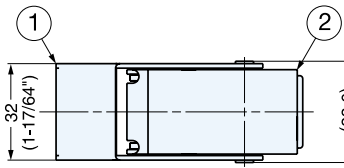
DRAW LATCH (W/SAFETY LOCK)



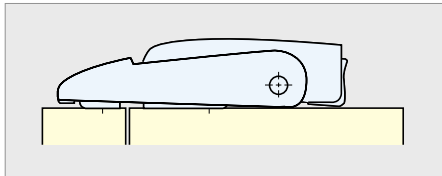
STF-82L



PAT.P



Countersunk Hole



Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
STF-82L	80 (176 lbs)	111	12	180

No.	Part Name	Material	Finish
①	Body A	304 Stainless Steel	Satin
②	Body B		
③	Button	Synthetic Rubber	Black
④	Counterplate	304 Stainless Steel	Satin
⑤	Mounting Plate		Polished

Recommended Screw : M4

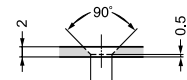
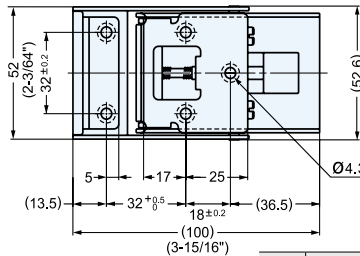
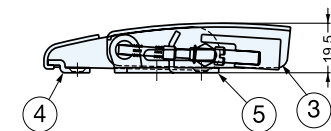
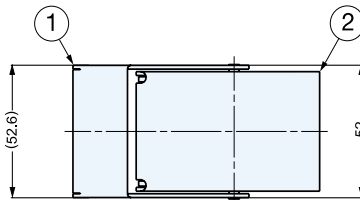
DRAW LATCH



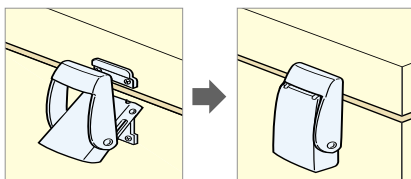
STF-100



PAT.P



Countersunk Hole



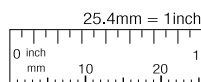
Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
STF-100	80 (176 lbs)	190	6	120

No.	Part Name	Material	Finish
①	Body A	304 Stainless Steel	Satin
②	Body B		
③	Button	Synthetic Rubber	Black
④	Counterplate	304 Stainless Steel	Satin
⑤	Mounting Plate		Polished

Recommended Screw : M4

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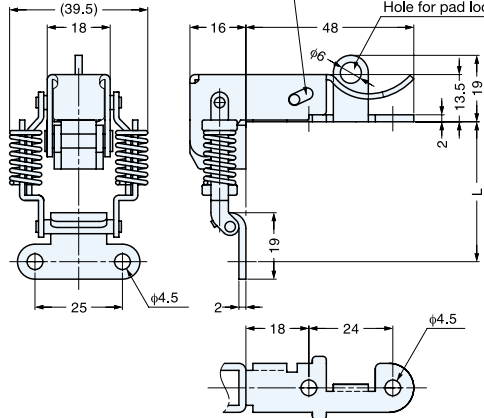
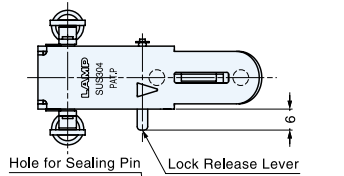
CORNER FASTENER (W/LOCK)



STF-C64A, B



STF-C64A PAT.P

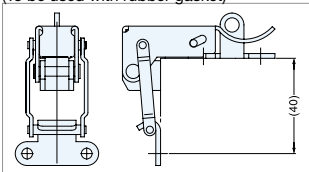


- Ideal for electronic enclosures.
- Designed to allow operating from front.
- Locks when fastened to prevent accidental release.

Material	Finish
304 Stainless Steel	Polished

*Maximum "L" dimension is 44mm.

STF-C64B (To be used with rubber gasket)



Item No.	Spring	Weight (g)	Box (pcs)	Carton (pcs)
STF-C64A	With	66.5	15	210
STF-C64B	Without	60	15	210

•STF-C64A

L (mm)	Clamping Force kgf±1.5 (lbs±3.3)
40	0
41	6.0 (13.2 lbs)
42	7.3 (16 lbs)
43	8.6 (19 lbs)
44	9.9 (21.8 lbs)

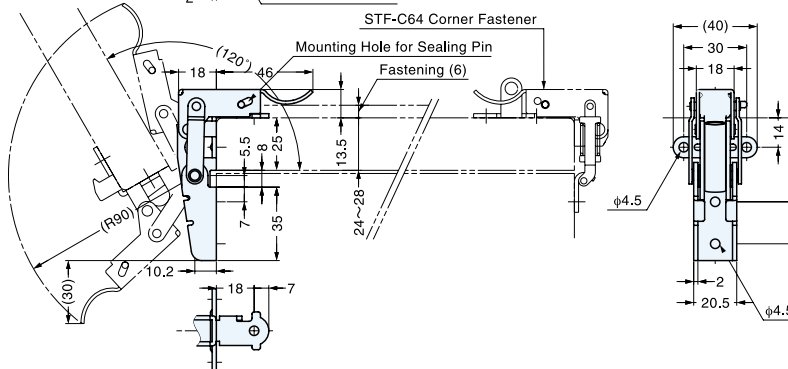
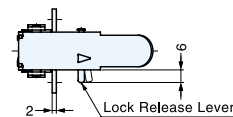
CORNER FASTENER HINGE (W/LOCK)



STH-C64



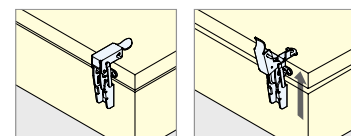
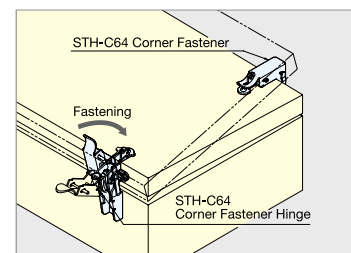
PAT.P



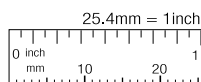
- Compresses cover to achieve better sealing.
 - Works with STF-C64 fastener.
 - Designed to allow operating from front.
 - Locks when fastened to prevent accidental release.
- Door size: W300 x H400 /pair
 Door thickness: t = 24mm (15/16") ~ 28mm (1-4/64")
 Door weight: Max. 2.8 kg (6.1 lbs) /pair

Material	Finish
304 Stainless Steel	Polished

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
STH-C64	90	10	140



Installation



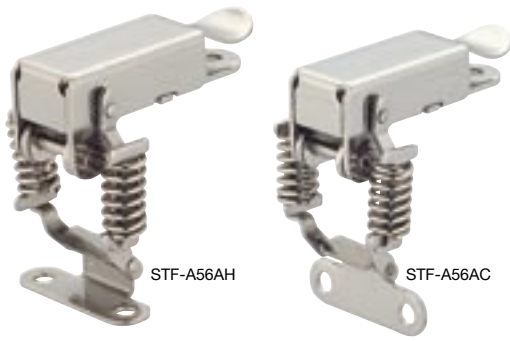
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CORNER FASTENER



STF-A56AH, AC

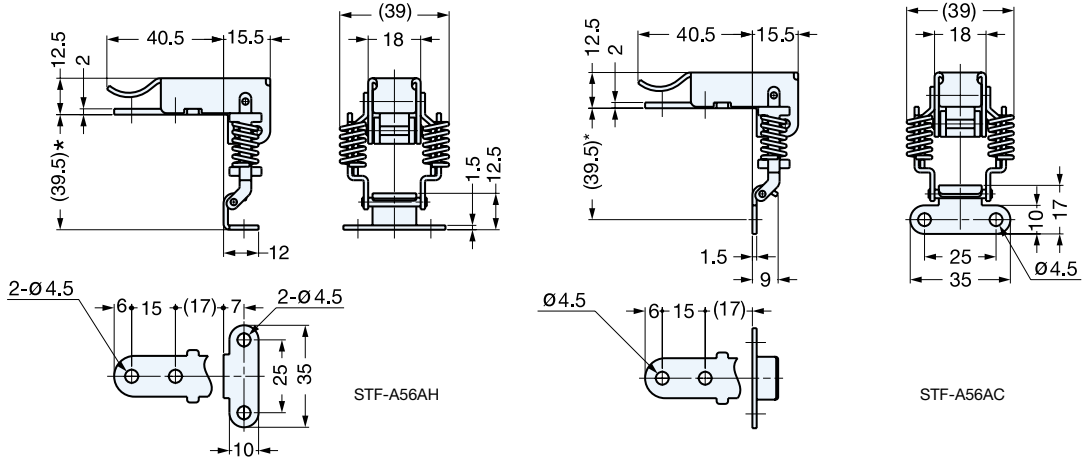


- Ideal for electronic enclosures.
- Designed to allow operating from front.

Material	Finish
304 Stainless Steel	Polished

*Dimension shown is in case of clamping force "0".

Item No.	Weight (g)
STF-A56AH	56
STF-A56AC	56



MINI DRAW LATCH



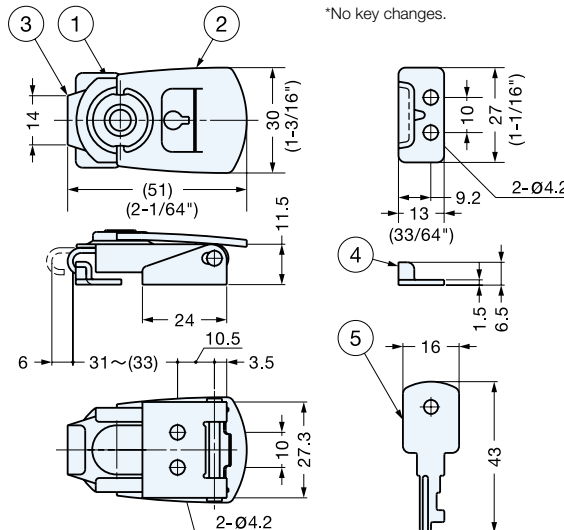
PN-51



- Small stainless draw latch with key.

No.	Part Name	Material	Finish
①, ②	Body, Lever	304 Stainless Steel	Plain
③	Hook		
④	Counterplate		
⑤	Key	Steel	Nickel

*No key changes.

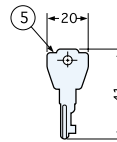
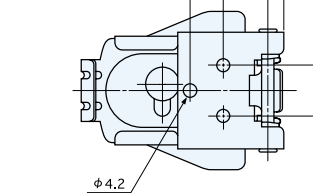
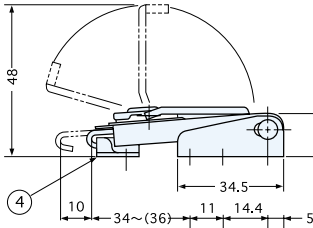
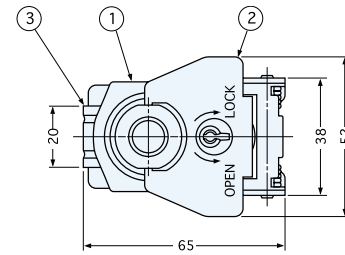


Item No.	Weight (g)	Box (pcs)
PN-51	50	40

DRAW LATCH



P-1040/SS



• Stainless draw latch with key.

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Polished
②	Lever		
③	Hook	430 Stainless Steel	
④	Counterplate	304 Stainless Steel	
⑤	Key	Steel	Nickel

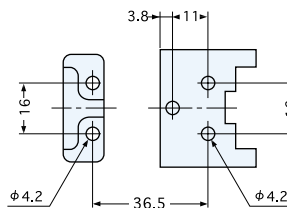
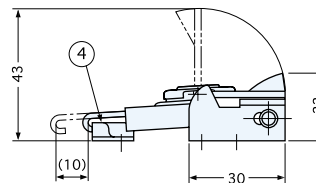
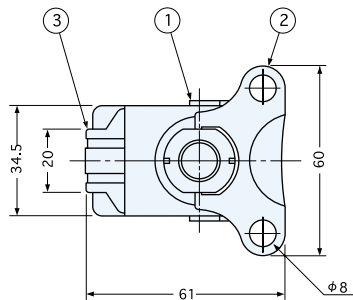
*No key changes available.

Item No.	Weight (g)	Box (pcs)
P-1040/SS	105	60

DRAW LATCH



P-102H/SS



No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Polished
②	Lever		
③	Hook	430 Stainless Steel	
④	Counter Plate	304 Stainless Steel	

Item No.	Weight (g)	Box (pcs)
P-102H/SS	85	60

BUTT JOINT LATCH

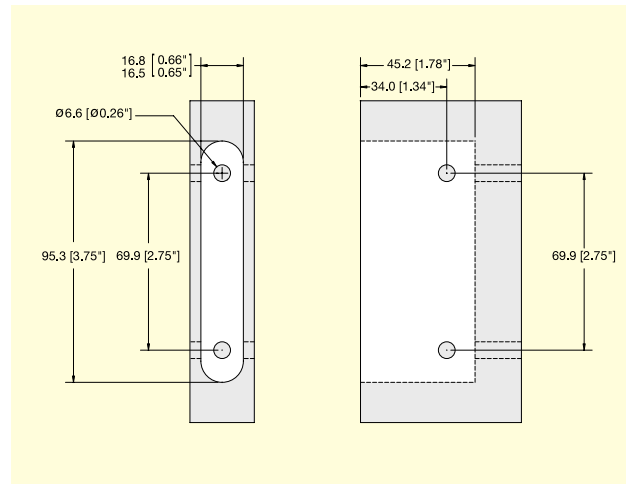
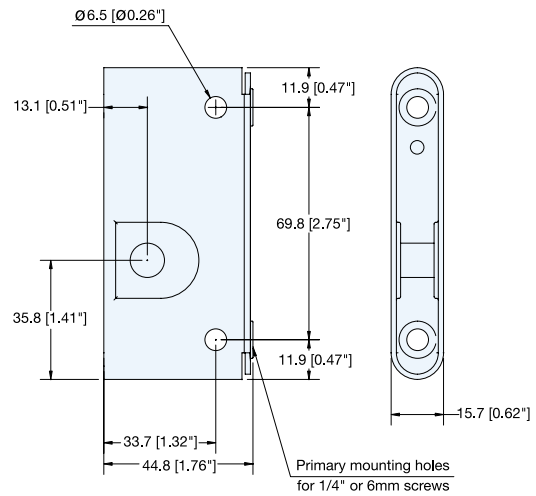
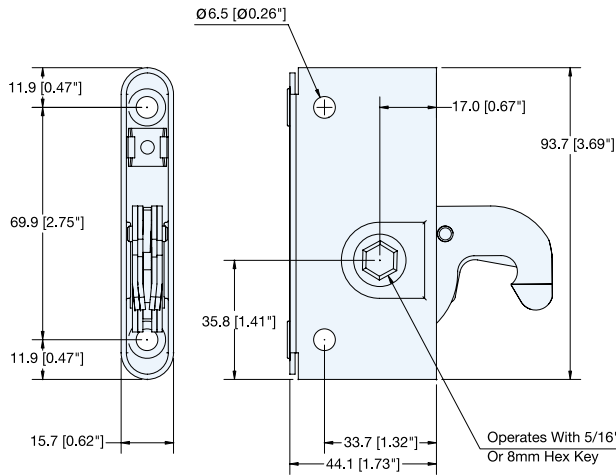


JL-300



- High strength joint latch for repeated assembly applications.
- Weather-resistant full 304 Stainless Steel construction.
- Cam action provides quick and easy latching.
- Over 2400 lbs(1090kg) tension rating for heavy duty panel joints.
- Exclusive hold-in detent for latch hooks prevents damage in handling.
- Turning key 90° engages hooks.
- Turning key an additional 180° to draws joint tight and locks.

Part Name	Material	Finish
Body	304 Stainless Steel	Plain
Cam	440 Stainless Steel	Plain



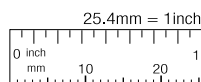
Routing Detail For Latch & Receptacle

CATCHES & LATCHES

BUTT JOINT LATCH

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
JL-300	350	12	72

LAMP LAMP BRAND by SUGATSUNE



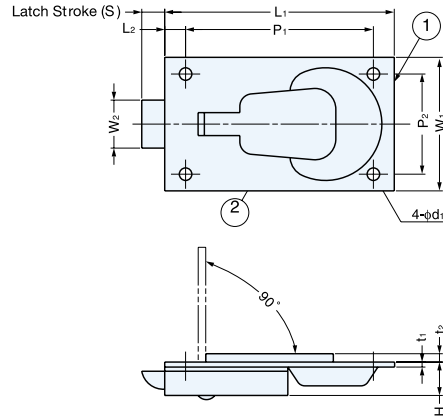
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FLUSH SLAM LATCH

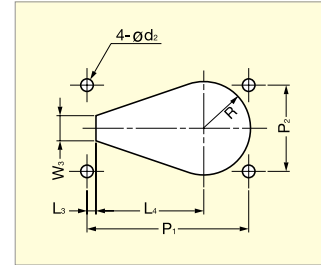


P-10



- Flush slam latch ideal for cover panels.
- Panel surface can be flush by mounting latch from back.
- Panel is latched when tab is flush, and released by pulling up the tab.
- Tab will stay in both flush and extended position.
- Ideal for multiple latch panels.

No.	Part Name	Material	Finish
①	Body	Brass	Nickel
②	Lever		



Cut Out Dimensions

Item No.	L ₁	L ₂	L ₃	L ₄	W ₁	W ₂	W ₃	H	t ₁	t ₂	P ₁	P ₂	d ₁	d ₂	R	(S)	Weight (g)
P10-26H	26	1.5	4	14	13	5	5	6	0.8	1.5	23	10	1.5	2	5	2.5	6
P10-30H	30	3	1.5	18	17	5.8	6	6.5	1.2	2	25	13	1.5	2	6	3	11
P10-38H	38	3	2	22.5	22	7.5	6	7.5	1.2	2	33	17.5	2	2.5	8.5	3.5	18
P10-45H	45	4	2.5	26.5	26	10	6	8	1.2	2	37	20	2.5	3	9.5	4.5	28
P10-55H	55	5	2.5	30	32	11.5	7	8	1.2	2	45	24	3	3.5	13	5.5	40
P10-61H	61	5.5	5	32	45	15	11	11.5	1.2	2	50	38	3	3.5	14	7	66

BOX LATCH (W/LOCK)



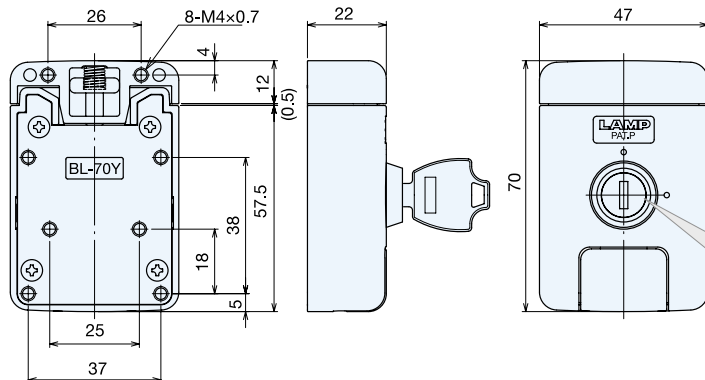
BL-70Y



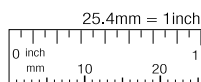
PAT.P

- Latch ideal for box and case.
- Automatically latches when lid closed.
- Push button to release.
- 2 keys included.
- 5 key changes available on request.

Part Name	Material	Finish/Color
Body, Strike	Zinc Alloy	Silver
Push Button	ABS	Grey



Item No.	Weight (g)	Box (pcs)
BL-70Y	220	10



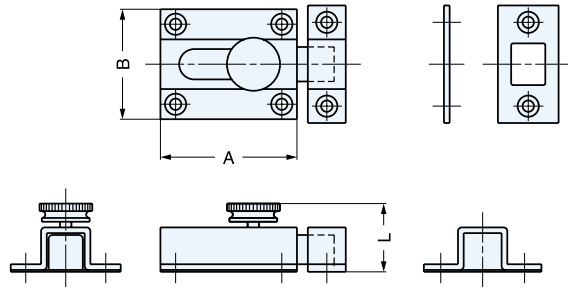
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SLIDE BOLT



SBL-35, 45

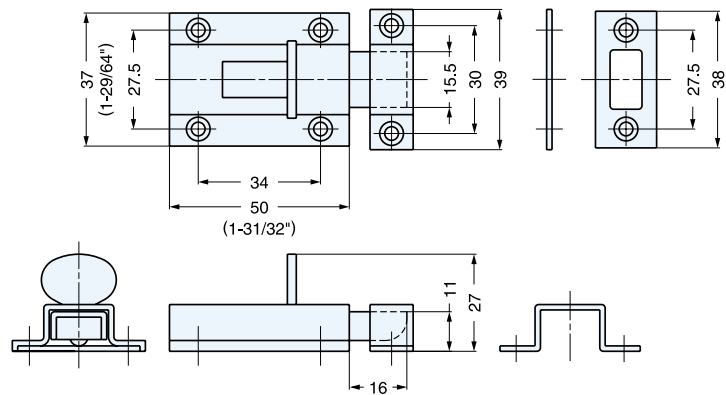


Item No.	A	B	L	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
SBL-35	36(1-27/64")	29(1-9/64")	18 (45/64")	60	20	200	Brass	Satin Nickel
SBL-45	45(1-25/32")	30(1-3/16")	18.5 (23/32")	80	10	200		

SLIDE BOLT



KR-50

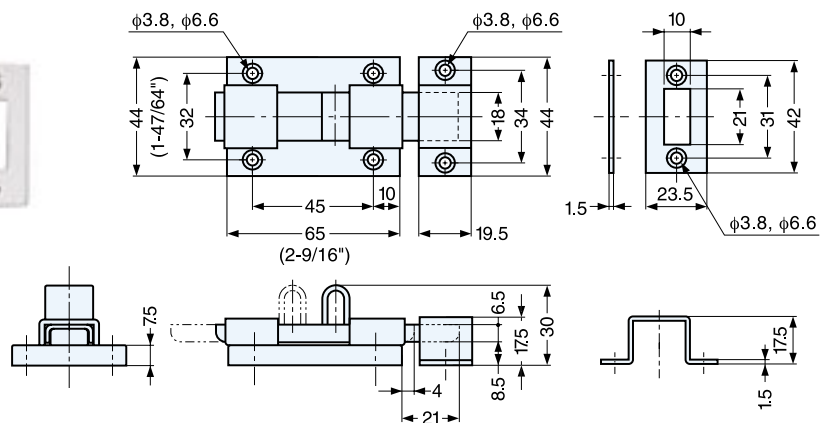


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
KR-50	80	20	200	304 Stainless Steel	Satin

SLIDE BOLT



KR-65

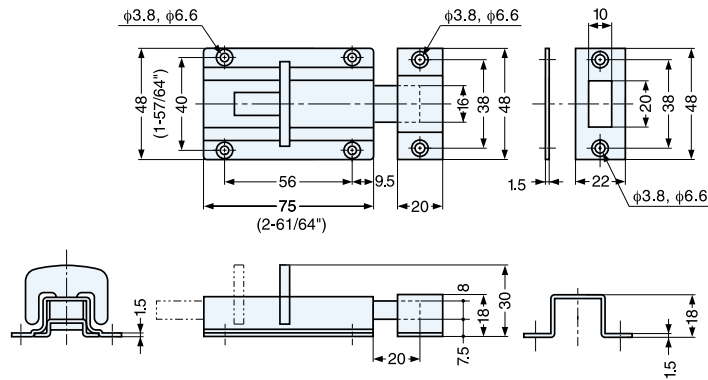


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
KR-65	125	10	100	304 Stainless Steel	Polished

SLIDE BOLT



KR-75

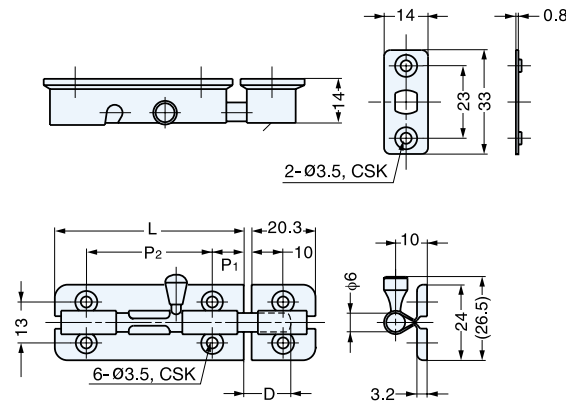


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
KR-75	225	10	100	304 Stainless Steel	Satin

BARREL BOLT



BL-40, 60



Item No.	L	P ₁	P ₂	D	Weight (g)	Box (pcs)	Carton (pcs)	Part Name	Material	Finish
BL-40	40(1-37/64")	7.5	25	11	36	30	450	Body and Plates	304 Stainless Steel	Stain
BL-60	60(2-23/64")	10	40	15	50	30	450	Bolt and Knob	Brass	Nickel

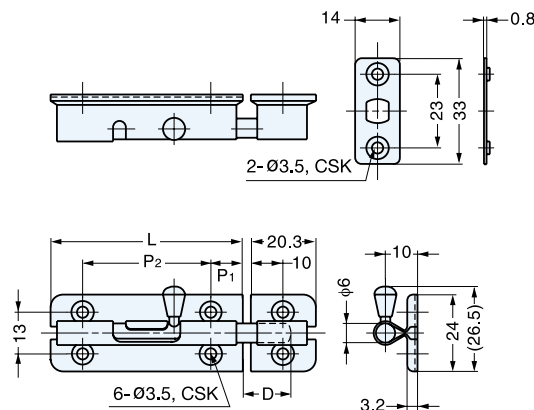
SPRING LOADED BARREL BOLT



BL-40SS, 60SS



PAT



Item No.	L	P ₁	P ₂	D	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
BL-40SS	40(1-37/64")	7.5	25	11	36	30	450	304 Stainless Steel	Satin
BL-60SS	60(2-23/64")	10	40	15	50	30	450		

SPRING LOADED BARREL BOLT



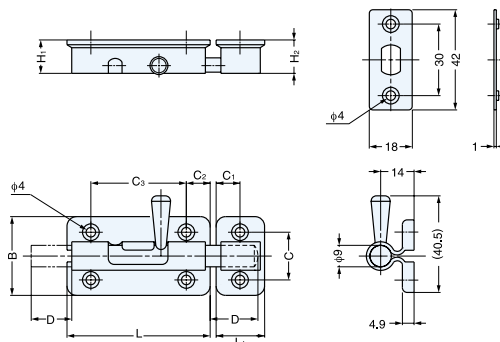
BLS-60, 90



BLS-90



BLS-60



Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	H ₁	H ₂	B	C	C ₁	C ₂	C ₃	D	Weight (g)	Box (pcs)	Carton (pcs)
BLS-60	60(2-23/64")	25.4(1")	20	20.4	33(1-19/64")	20	12.7	10	40	17	109	20	200
BLS-90	90(3-35/64")	25.4(1")	20	20.4	33(1-19/64")	20	12.7	12.5	65	24	147	15	150

BARREL BOLT



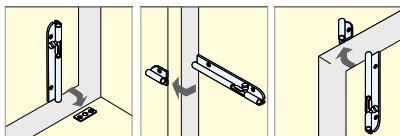
BS-90, 150, 240



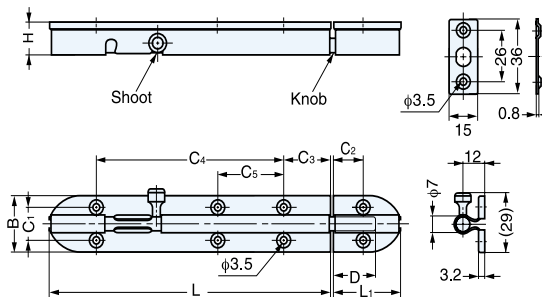
BS-240



BS-90



Installation



BS-240

Part Name	Material	Finish
Body and Plates	304 Stainless Steel	Stain
Bolt and Knob	Brass	Nickel

Item No.	L	L ₁	H	B	C ₁	C ₂	C ₃	C ₄	C ₅	D	Weight (g)	Box (pcs)	Carton (pcs)
BS- 90	90 (3-35/64")	36(1-27/64")	16.5	27(1-1/16")	16	15	14.5	58	-	24	85	30	300
BS-150	150 (5-29/32")	36(1-27/64")	16.5	27(1-1/16")	16	15	25	100	-	24	125	20	200
BS-240	240 (9-29/64")	36(1-27/64")	16.5	27(1-1/16")	16	15	18.5	192	71	30	190	10	100

SPRING LOADED BARREL BOLT



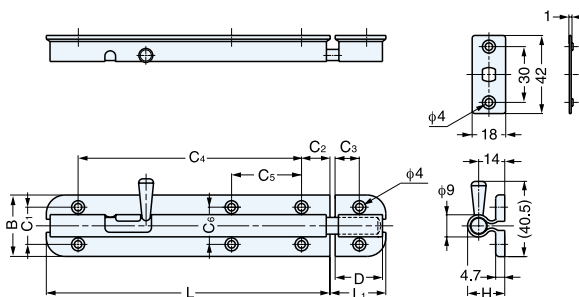
BSS-90, 150, 240



BSS-240



BSS-90



BSS-240

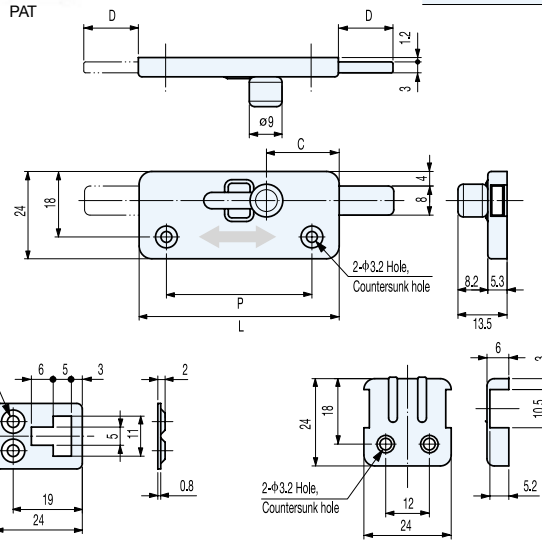
Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	H	B	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	D	Weight (g)	Box (pcs)	Carton (pcs)
BSS- 90	90 (3-35/64")	30(1-3/16")	20	33(1-19/64")	20.5	13	13	60	-	20	24	142	15	150
BSS-150	150 (5-29/32")	30(1-3/16")	20	33(1-19/64")	20.5	13	15	115	-	20	32	215	10	100
BSS-240	240 (9-29/64")	30(1-3/16")	20	33(1-19/64")	20.5	13	15	205	60	20	32	330	6	60

SLIDE BOLT



FL2-35, 55



- Flat and compact design.
- Knob will be latched in open and closed position.
- 2 different counter plates included for various application.

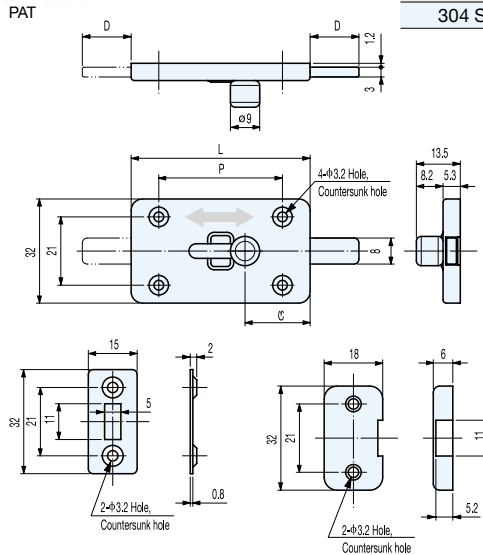
Material	Finish
304 Stainless Steel	Satin

Item No.	L	P	C	D	Weight (g)	Box (pcs)	Carton (pcs)
FL2-35	35	21	11.5	12	28	30	300
FL2-55	55	40	20	15	39	30	300

SLIDE BOLT



FL4-35, 55



- Flat and compact design.
- Knob will be latched in open and closed position.
- 2 different counter plates included for various application.

Material	Finish
304 Stainless Steel	Satin

Item No.	L	P	C	D	Weight (g)	Box (pcs)	Carton (pcs)
FL4-35	35	23	11.5	12	32	30	300
FL4-55	55	38	20	15	47	30	300

PUSH BARREL BOLT

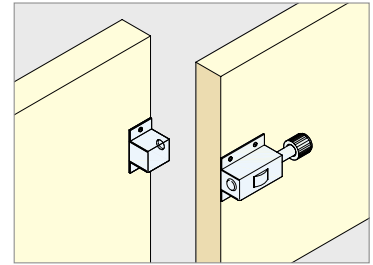
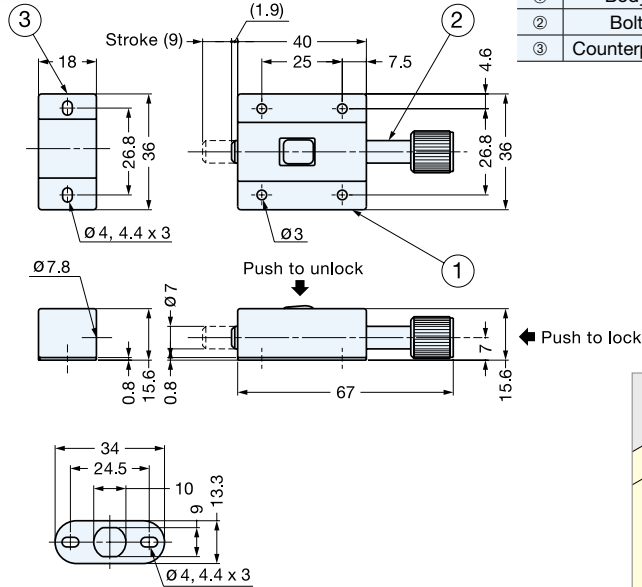


PRS-40



• Simply push knob to latch, and push button to release.

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Satin
②	Bolt	303 Stainless Steel	
③	Counterplate	304 Stainless Steel	



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
PRS-40	55	20	240

LEVER BOLT

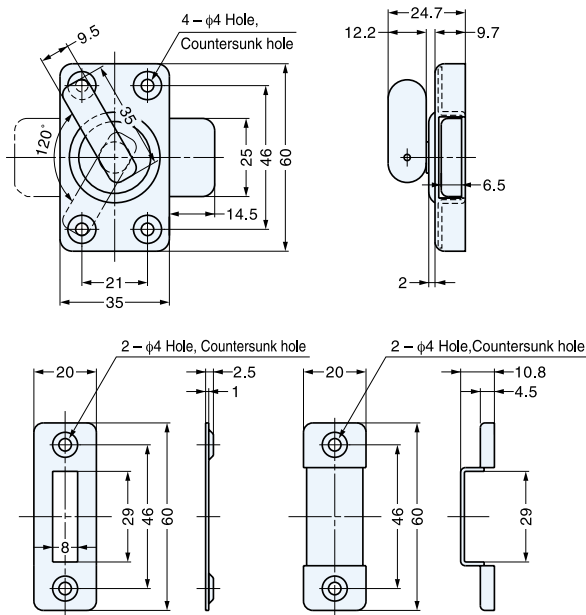


HR-35



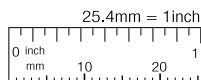
• Large knob allows easy operation.
• 2 different counter plates included for various applications.

PAT



HR35SP-B
(2mm Spacer: Sold separately)

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
HR-35	108	10	100	304 Stainless Steel	Satin



BAR LATCH



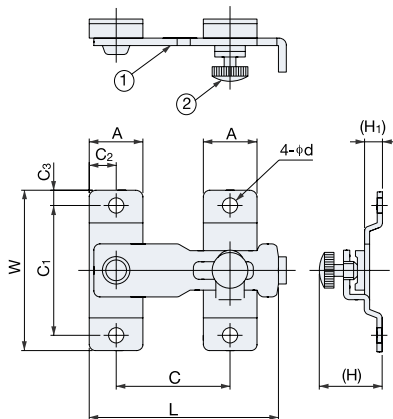
BL



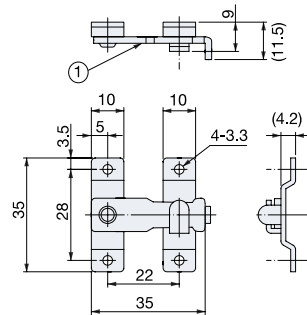
BL-55



BL-35



BL-45 ~ 120



BL-35

- Latch with thumb screw on female strike to keep latch closed.
- * No thumb screw on BL-35.

No.	Part Name	Material	Finish
①	Body, Strike	304 Stainless Steel	Polished
②	Thumb Screw	Brass	Chrome

Item No.	L	W	A	C	C ₁	C ₂	C ₃	H	H ₁	d	Weight(g)	Box (pcs)	Carton (pcs)
BL- 35	35 (1-3/8")	35 (1-3/8")	10	22	28	5	3.5	-	4.2	3.3	19	30	1200
BL- 45	45 (1-49/64")	40 (1-37/64")	13	28	32	6.5	4	15 (19/32")	4.5	3.3	28	20	900
BL- 55	55 (2-11/64")	46 (1-13/16")	16	35	37	8	4.5	19 (3/4")	6	4	50	20	720
BL- 80	81 (3-3/16")	65 (2-9/16")	20	52	53	10	6	23 (29/32")	7	4.8	100	10	360
BL-100	100 (3-15/16")	80 (3-5/32")	25	60	66	12.5	7	29 (1-6/64")	8	5.5	200	5	150
BL-120	120 (4-23/32")	100 (3-15/16")	30	75	80	15	10	30 (1-3/16")	8	6.5	295	5	100

SPRING LOADED BAR LATCH



BLL

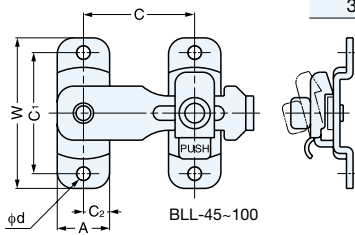
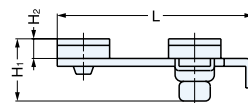


BLL-100

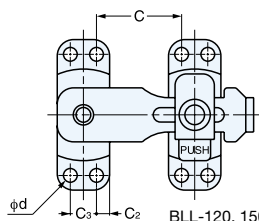


BLL-45

PAT



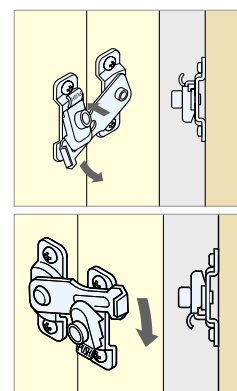
BLL-45~100



BLL-120, 150

- Latch bolt snaps into the strike to prevent accidental release.
- Push tab on strike to release.

Material	Finish
304 Stainless Steel	Polished

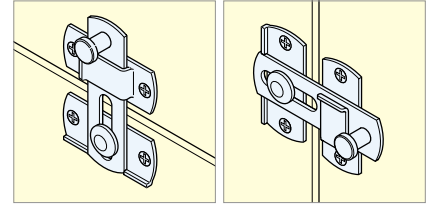
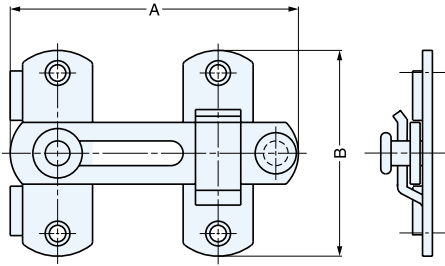


Installation

Item No.	L	W	A	C ₁	C ₂	C ₃	H ₁	H ₂	C	d	Weight (g)	Box (pcs)	Carton (pcs)	Screw
BLL- 45	48 (1-57/64")	40 (1-37/64")	13	32	6.5	-	17	4.5	23± 3 (29/32" ± 1/8")	3.2	28	20	400	3 ×10
BLL- 60	63 (2-31/64")	46 (1-13/16")	16	37	8	-	20	6	34± 4 (1-11/32" ± 5/32")	4.2	50	20	400	3.5×16
BLL- 80	85 (3-11/32")	65 (2-9/16")	20	53	10	-	22.5	7	47± 7 (1-27/32" ± 9/32")	5	100	10	200	4.5×16
BLL-100	105 (4-1/8")	80 (3-5/32")	25	66	12.5	-	26.5	8	59± 7 (2-21/64" ± 9/32")	5.5	182	10	100	5 ×20
BLL-120	127 (5")	100 (3-15/16")	28.5	80	6.75	15	28	8	56± 10 (2-13/64" ±25/64")	6.2	270	8	80	5 ×20
BLL-150	155 (6-3/32")	120 (4-23/32")	30.5	95	7.25	16	28	8	74± 14 (2-29/32" ±35/64")	6.2	350	6	60	5 ×20



BAR LATCH

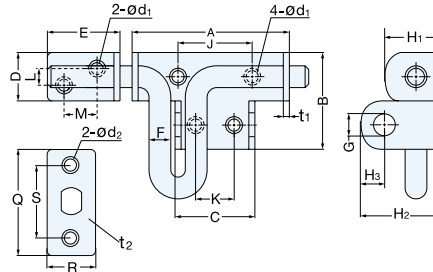
SSL-50, 70, 100


Installation

Item No.	A	B	Weight (g)	Box (pcs)	Carton (pcs)
SSL- 50	50 (1-31/32")	35 (1-3/8")	32	20	600
SSL- 70	70 (2-3/4")	50 (1-31/32")	68	20	360
SSL-100	100 (3-15/16")	70 (2-3/4")	142	10	160

Material	Finish
304 Stainless Steel	Polished

GATE LATCH

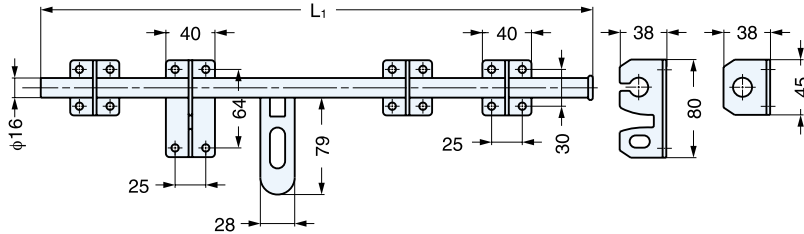
SSG-45, 65, 85


Item No.	A	B	C	D	E	F	G	H ₁	H ₂	H ₃	Material	Finish
SSG-45	45 (1-25/32")	28 (1-3/32")	25	14	21 (53/64")	6	7	16	22	7.5	304 Stainless Steel	Satin
SSG-65	65 (2-9/16")	40 (1-37/64")	33	20	30 (1-3/16")	9	10	21	29	10.5		
SSG-85	85 (3-11/32")	46 (1-13/16")	42	26	35 (1-3/8")	12	10	28	35	11		

Material	Finish
304 Stainless Steel	Satin

Item No.	J	K	L	M	Q	R	S	d ₁	d ₂	t ₁	t ₂	Weight (g)	Box (pcs)	Carton (pcs)
SSG-45	22	11	2	8	32	15	22	4.8	4.8	2.0	1.2	65	20	240
SSG-65	30	14	4	14	40	18	28	5.9	5.9	2.5	1.5	175	10	100
SSG-85	38	21	8	17	48	22	35	6	5.2	3.0	1.5	400	5	60

LONG SLIDE BOLT

S-550-300, 450, 600


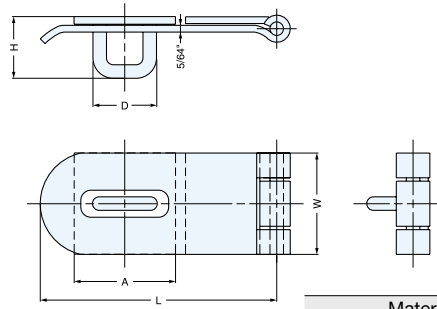
Item No.	L ₁	Weight (g)	Box (pcs)	Carton (pcs)
S-550-300	300 (11-13/16")	905	2	40
S-550-450	450 (17-23/32")	1105	2	30
S-550-600	600 (23-5/8")	1360	2	20

Material	Finish
304 Stainless Steel	Polished

WELD-ON STAINLESS STEEL HASP



HP-635, 645, 660



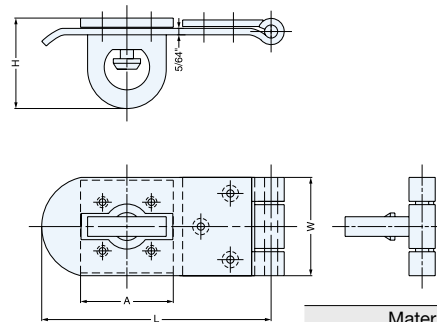
(Dimensions shown in inch)

Item No.	L	W	A	D	H	Material		Finish	
						316 Stainless Steel		Electro Polished	
HP-635	3-1/2"	1-1/2"	1-1/2"	15/16"	13/16"	110	25	200	
HP-645	4-1/2"	1-1/2"	1-1/2"	15/16"	13/16"	173	20	160	
HP-660	6"	2"	1-1/2"	15/16"	13/16"	290	10	100	

SATINLESS STEEL HASP



HP-635S, 645S, 660S



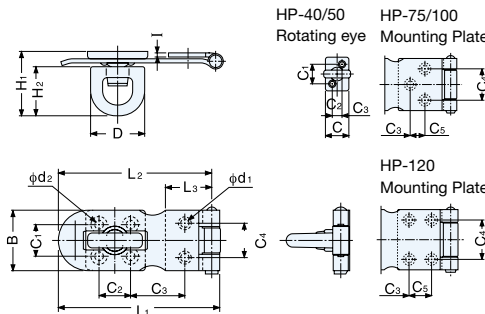
(Dimensions shown in inch)

Item No.	L	W	A	H	Material		Finish	
					316 Stainless Steel		Electro Polished	
HP-635S	3-1/2"	1-1/2"	1-1/2"	1-3/8"	130	25	200	
HP-645S	4-1/2"	1-1/2"	1-1/2"	1-3/8"	184	20	160	
HP-660S	6"	2"	1-1/2"	1-3/8"	302	10	100	

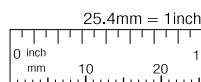
SATINLESS STEEL HASP



HP



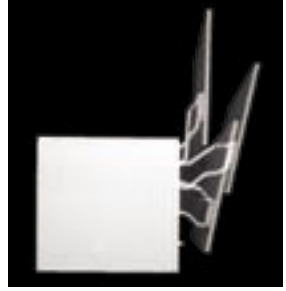
Item No.	L ₁	L ₂	L ₃	B	C ₁	C ₂	C ₃	C ₄	C ₅	H ₁	H ₂	C	D	I	d ₁	d ₂	Weight (g)	Box (pcs)	Carton (pcs)
HP- 40	40 (1-37/64")	37	13	22 (7/8")	13	6.4	10.8	12	-	22 (55/64")	17.9	15.3	17.7	1.2	3	3	21.5	30	300
HP- 50	50 (1-31/32")	47	13	22.3 (7/8")	13	9	16	12	-	22 (55/64")	17.9	18.3	17.7	1.2	3	3	24	25	250
HP- 65	65 (2-9/16")	62	19	24 (15/16")	13	13	21.5	14	-	24.5 (31/32")	20.4	24.5	22.5	1.5	3.2	3.2	41.5	20	200
HP- 75	75 (2-61/64")	72	24.8	27 (1-1/16")	15	15	15.7	16	9.5	27.4 (1-5/64")	22	27.8	23.2	1.5	3.8	3.8	51.5	15	150
HP- 100	100 (3-15/16")	95	30	35.5 (1-25/64")	19	19	29	21	10	32.2 (1-17/16")	27.9	35.5	31	2	4	4.5	118.5	10	100
HP- 120	120 (4-23/32")	115	35.5	40 (1-37/64")	21	22	38	26	15	34.8 (1-3/8")	27.9	40.5	31	2.5	5.2	5.2	172	8	80



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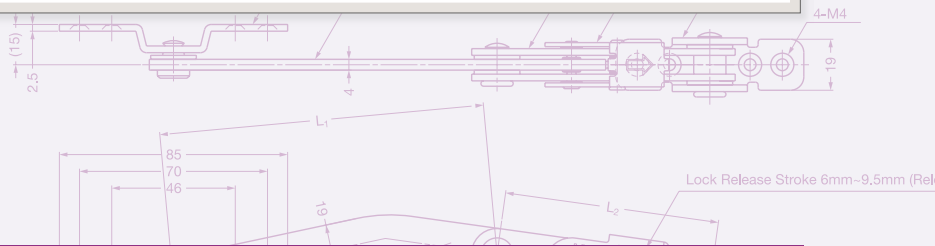
SOFT-DOWN / LIFT-UP STAYS



LID SUPPORTS



DOOR HOLDERS



LID SUPPORTS

- SOFT-DOWN / LIFT-UP STAYS ————— 50
- LID SUPPORTS ————— 66
- DOOR HOLDERS ————— 80



SDS

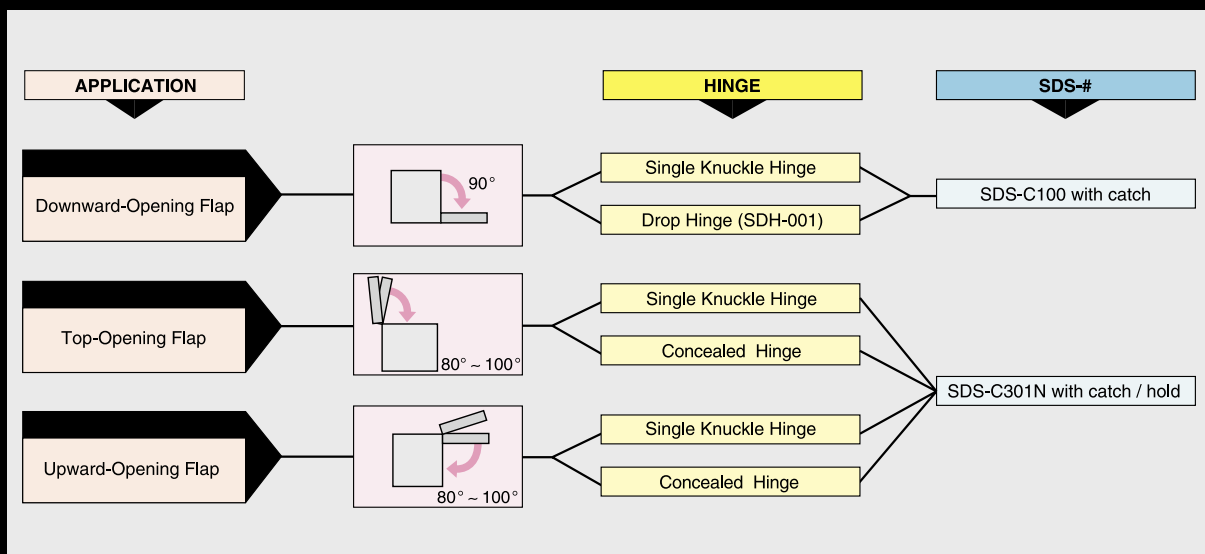
SOFT-DOWN STAY



PAT

- One-way rotary damper offers smooth and soft downward movement.
- Installation is quick and easy.
- Recognized by LGA for 30,000 cycles
- Compact design
- Non-handed

Designed to operate at room temperature
0°~40°C (32°~104°F).



SOFT-DOWN STAY



SDS-C100



- For DOWNWARD-OPENING FLAP DOOR with piano, butt or drop hinges.
- SDS-C100 (with catch) is designed to hold door in closed position.
- Non-handed
- Torque Calculation :
Torque = Door Height x 1/2 x Door Weight
Per Piece : 35~50 kg·cm (30~43 lbs·inch)
Per Pair : 70~100 kg·cm (60~86 lbs·inch)
- Recommended Door Thickness : 20mm (25/32")

Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Black, White

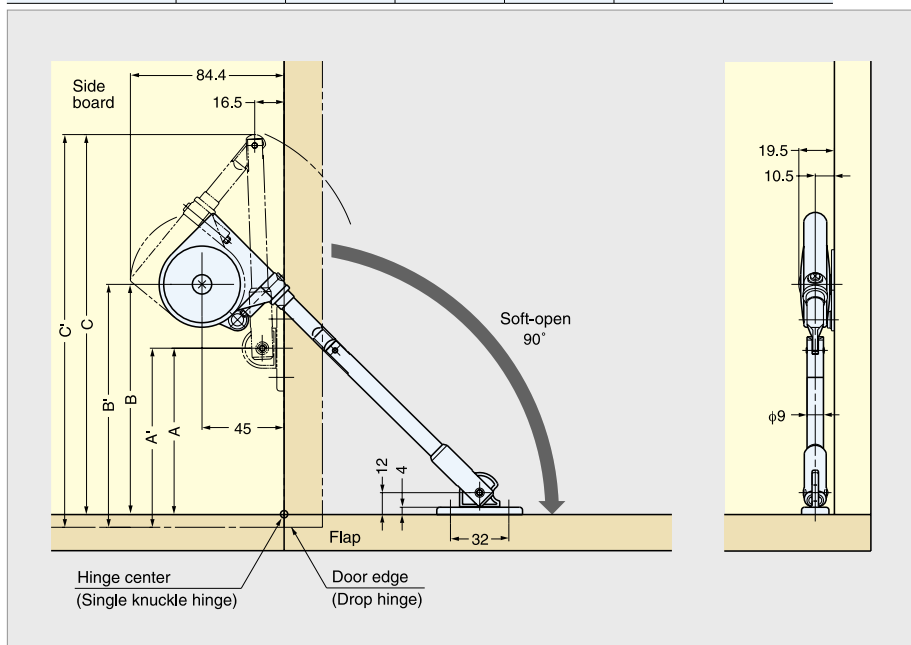


White

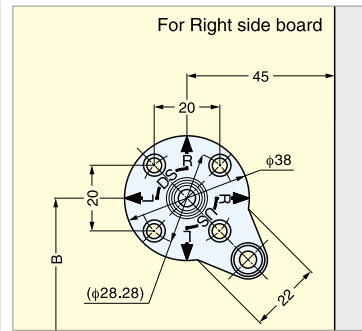


Black

Hinge Type	A	A'	B	B'	C	C'
Single Knuckle Hinge	100(3-15/16")	-	135(5-5/16")	-	218(8-37/64")	-
Drop Hinge	-	107(4-7/32")	-	142(5-19/32")	-	225(8-55/64")



Mounting Plate SDS-A



Item No.	Color	Weight (g)	Box (pcs)	Carton (pcs)
SDS-C100/WHT	White	167	20	100
SDS-C100/BLK	Black	167	20	100

SOFT-DOWN STAY



SDS-C301N



PAT

- For UPWARD-OPENING FLAP DOOR with concealed, piano or butt hinges.
- SDS-C301N is designed to hold door in closed and opened position.
- Non-handed
- Torque Calculation :
Torque = Door Height x 1/2 x Door Weight
Per Piece : 40~70 kg·cm (35~60 lbs·inch)
Per Pair : 80~140 kg·cm (70~120 lbs·inch)
- Recommended Door Thickness : 20mm (25/32")

Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Black, White

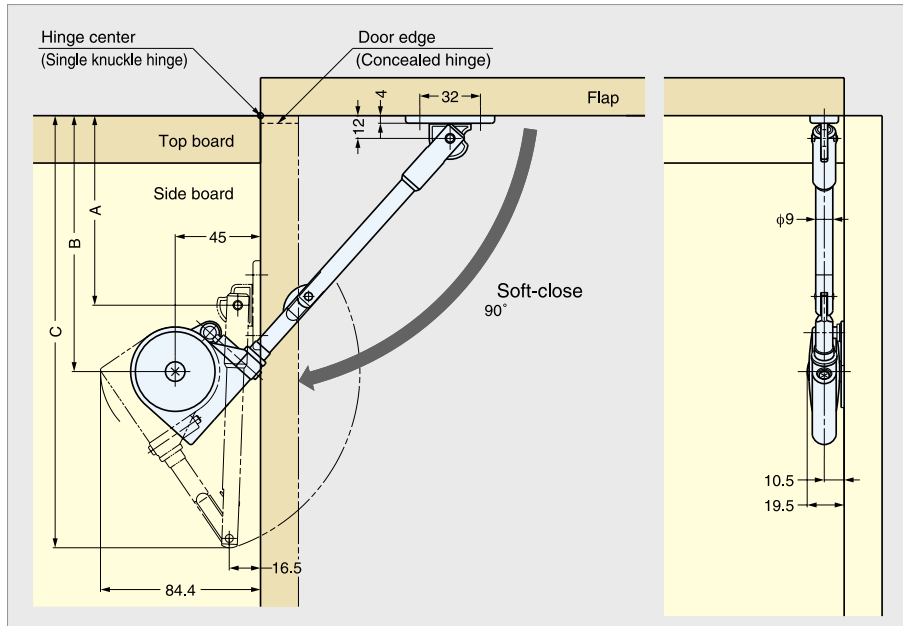


White

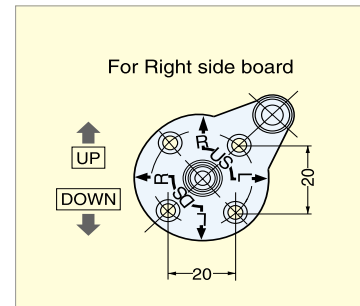


Black

Hinge Type	Coverage	A	B	C
Concealed Hinge	-	108 (4-1/4")	143 (5-5/8")	232 (9-9/64")
Single Knuckle Hinge	Overlay	100 (3-15/16")	135 (5-5/16")	223 (8-25/32")
	Inset	97 (3-13/16")	132 (5-13/64")	220 (8-21/32")



Mounting Plate SDS-A



Item No.	Color	Weight (g)	Box (pcs)	Carton (pcs)
SDS-C301N/WHT	White	165	20	100
SDS-C301N/BLK	Black	165	20	100

SOFT-DOWN STAY



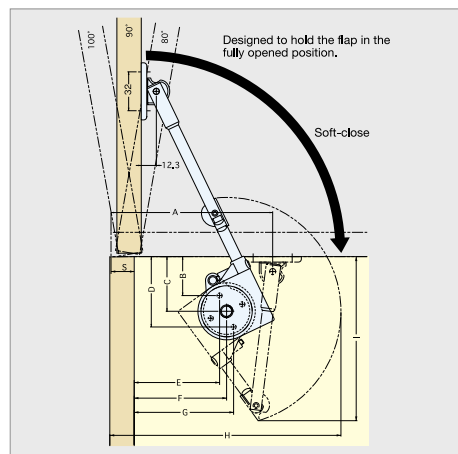
SDS-C301N



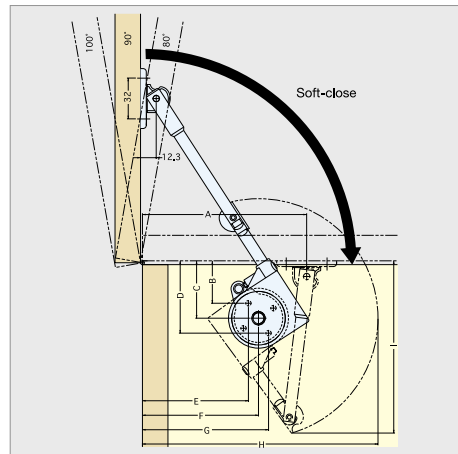
- For TOP-OPENING FLAP DOOR with concealed, piano or butt hinges.
- Designed to hold door in fully opened position.
- Non-handed

Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Black, White

With Concealed Hinge



With Single Knuckle Hinge



Concealed Hinge

Opening angle	S=Coverage								
	A	B	C	D	E	F	G	H	I
80°	141	31.9	45	58.1	98.2-S	103.5-S	108.8-S	197.5	134.8
90°	132.5	32.3	45	57.7	88.7-S	95 -S	101.3-S	189	134.8
100°	126.5	32.9	45	57.1	81.2-S	88.5-S	95.8-S	182.5	134.8

Single Knuckle Hinge / Overlay Type

Opening angle	A	B	C	D	E	F	G	H	I
80°	138.5	32.6	45	57.4	94.1	101	107.9	195	134.8
90°	128.5	33.2	45	56.8	83.1	91	98.9	185	134.8
100°	121.5	33.9	45	56.1	75.2	84	92.8	178	134.8

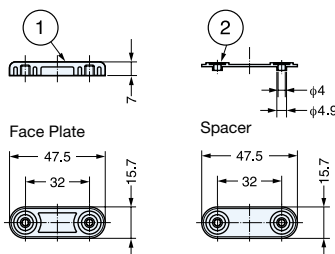
Single Knuckle Hinge / Inset Type

Opening angle	A	B	C	D	E	F	G	H	I
80°	129	31.7	45	58.3	86.7	91.5	96.3	185.5	134.8
90°	118.5	32	45	58	75.3	81	86.7	175	134.8
100°	111	32.5	45	57.5	67	73.5	80	167.5	134.8

SDS FACE PLATE



SDS-50G

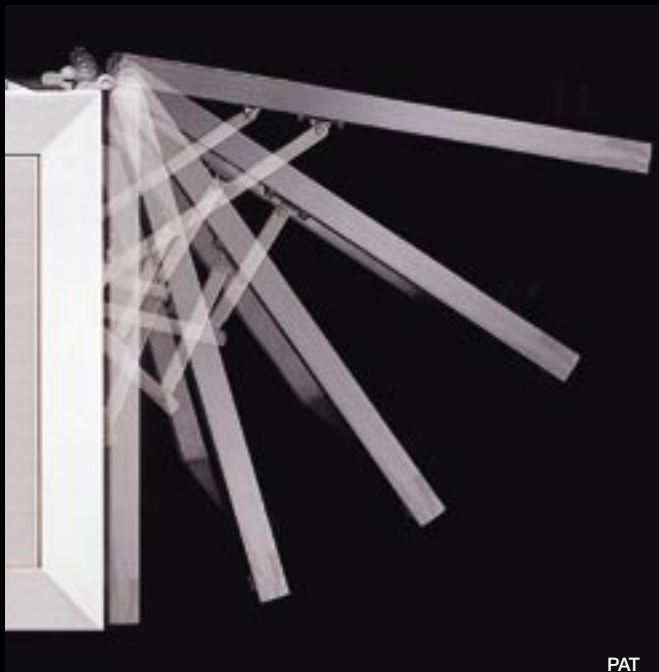


- Cover plate for glass door applications
- To be used with SDS or NSD soft-down stays.

No.	Part Name	Material	Finish/Color
①	Face Plate	Zinc Alloy	Chrome (CR) Black (BLK)
②	Spacer	ABS	Black

Item No.	Weight (g)	Box	Carton
SDS-50G/BLK	25	100	400
SDS-50G/CR	25	100	400

NSD

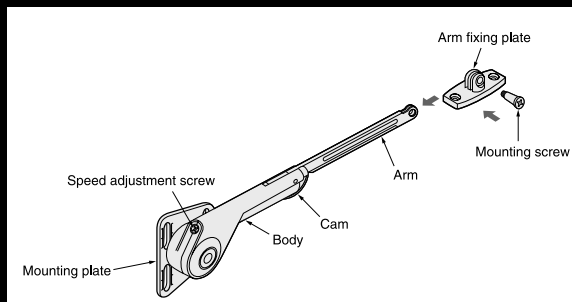


PAT

ADJUSTABLE SOFT-DOWN STAY

- Keeps flap/lid from slamming down or flying open.
- Recognized by LGA for 50,000 cycles.
- Opening/closing speed is adjustable.
- Opening angle is adjustable by changing mounting position.
- Handed

Designed to operate at room temperature 0°~40°C (32°~104°F).



APPLICATION		MOUNTING SIDE	NSD-#
Downward-Opening Flap		Right	NSD-10R
		Left	NSD-10L
Top-Opening Flap		Right	NSD-20R
		Left	NSD-20L
Upward-Opening Flap		Right	NSD-35R
		Left	NSD-35L

ADJUSTABLE SOFT-DOWN STAY



NSD-10

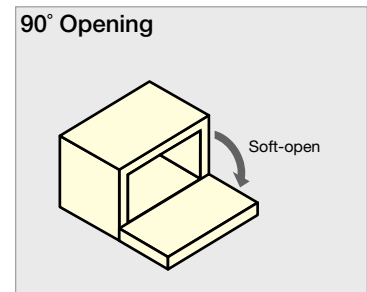
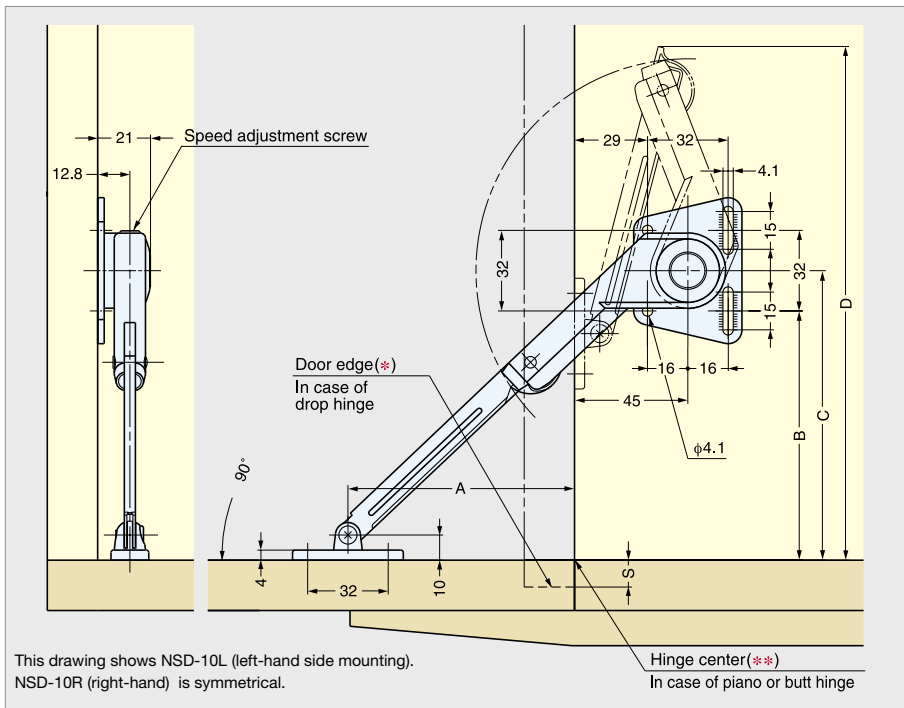


- For DOWNWARD-OPENING FLAP DOOR with piano, butt or drop Hinges.
- NSD-10 is designed to hold door in closed position.
- Torque Calculation :
Torque = Door Height x 1/2 x Door Weight
Per Piece : 20~70 kg·cm (19~60 lbs·inch)
Per Pair : 40~140 kg·cm (38~120 lbs·inch)

Material	Finish
Zinc Alloy, Steel	Bright Nickel



PAT



The distance for A, B, C is measured from "door edge (*)" and "top surface of bottom board" when drop hinges are used, and from "hinge center (**)" and "top surface of bottom board" when piano or butt hinges are used.

Hinge Type	A	B	C	D
Drop Hinge	97(3-13/16")	106 (4-11/64") -S	122 (4-51/64") -S	211 (8-5/16") -S
Piano / Butt Hinge	90(3-35/64")	99 (3-57/64")	115 (4-17/32")	204 (8-1/32")

Note: "S" dimension is the overlay distance for drop hinge(s).

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
NSD-10R	210	20	80
NSD-10L	210	20	80

ADJUSTABLE SOFT-DOWN STAY

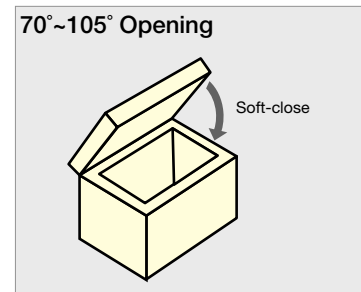
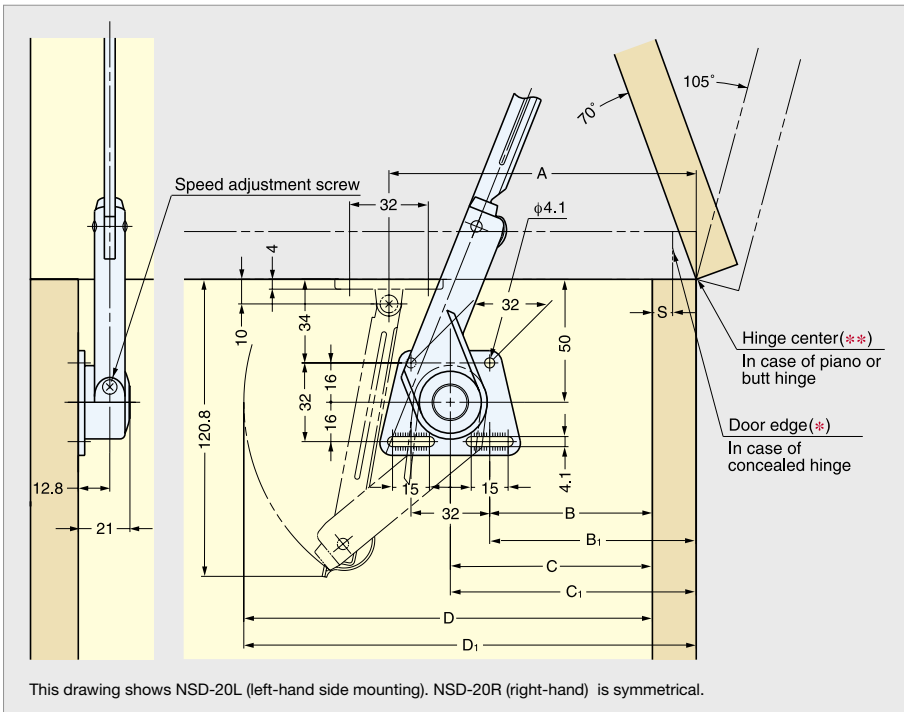


NSD-20



- For TOP-OPENING FLAP DOOR with piano, butt or concealed hinges.
- Opening angle adjustable from 70° to 105°
- NSD-20 is designed to hold door in fully opened position.
- Torque Calculation :
 Torque = Door Height x 1/2 x Door Weight
 Per Piece : 20~70 kg·cm (19~60 lbs·inch)
 Per Pair : 40~140 kg·cm (38~120 lbs·inch)

Material	Finish
Zinc Alloy, Steel	Bright Nickel



Opening Angle	Hinge Type	A	B	C	D	B ₁	C ₁	D ₁
70°	Concealed Hinge	126 (4-31/32")	85(3-11/32")-S	101(3-31/32")-S	185(7-9/32")-S	-	-	-
	Piano / Butt Hinge	125 (4-59/64")	-	-	-	84	100	184
105°	Concealed Hinge	103 (4-3/64")	62(2-7/16")-S	78(3- 5/64")-S	162(6-3/ 8")-S	-	-	-
	Piano / Butt Hinge	97 (4-13/16")	-	-	-	56	72	156

Note: "S" dimension is the overlay distance for concealed hinge(s).

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
NSD-20R	210	20	80
NSD-20L	210	20	80

ADJUSTABLE SOFT-DOWN STAY



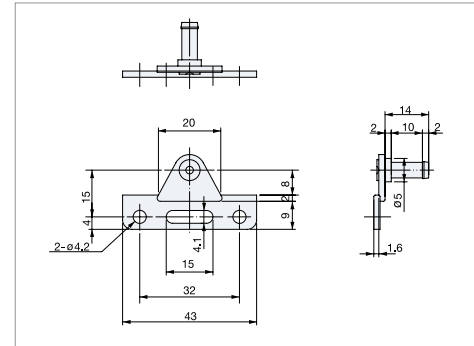
NSD-35



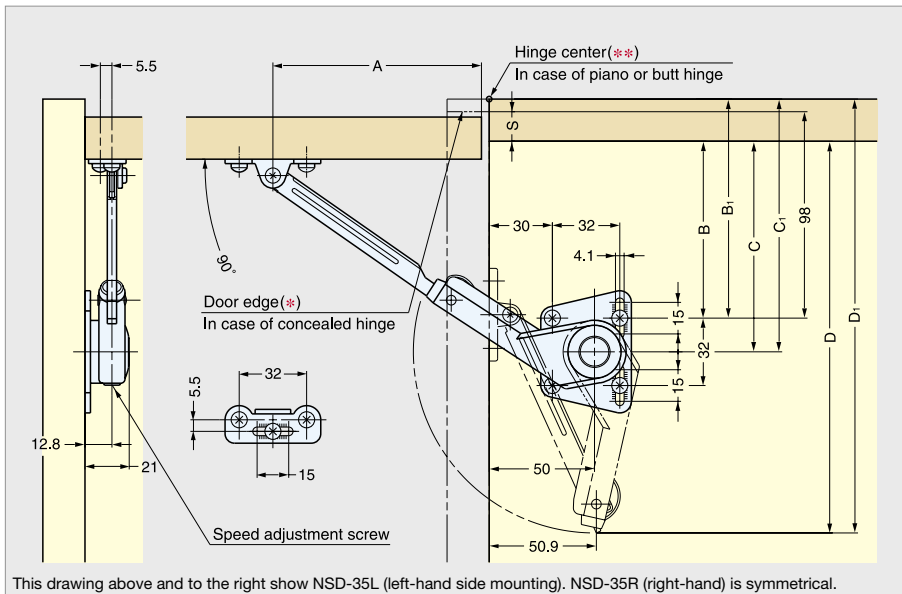
- For UPWARD-OPENING FLAP DOOR with piano, butt or concealed hinges.
- Opening angle adjustable from 80° to 100°
- NSD-35 is designed to hold door in fully opened position.
- Two stop version (holds door at 65° and 90°) is also available.
- Torque Calculation :
 Torque = Door Height x 1/2 x Door Weight
 Per Piece : 20~70 kg·cm (19~60 lbs·inch)
 Per Pair : 40~140 kg·cm (38~120 lbs·inch)

Material	Finish
Zinc Alloy, Steel	Bright Nickel

NSDX-AZ Angle Bracket

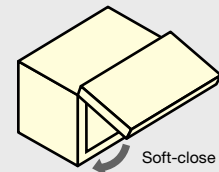


NSDX-AZ (angle bracket) for aluminum frame application available upon request.



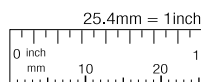
This drawing above and to the right show NSD-35L (left-hand side mounting). NSD-35R (right-hand) is symmetrical.

80°~100° Opening



Opening Angle	80°		90°		100°	
	Down		Middle		Up	
Position of Plates	Mounting Plate	Arm Bracket	Mounting Plate	Arm Bracket	Mounting Plate	Arm Bracket
For Hinge Center (Up) ↕ (Down)						

Hinge Type	A	B	C	D	B ₁	C ₁	D ₁	Item No.	Weight (g)	Box (pcs)	Carton (pcs)
Concealed Hinge	99	98-S	114-S	200-S	-	-	-	NSD-35R	210	20	80
Piano / Butt Hinge	93	-	-	-	92	108	194	NSD-35L	210	20	80



HDS

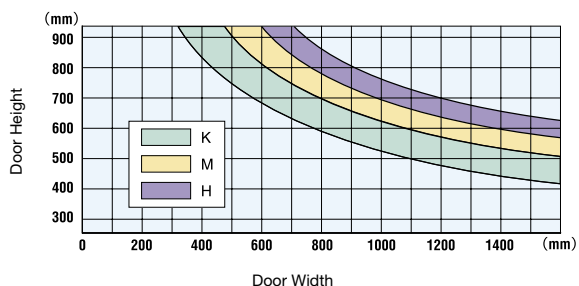
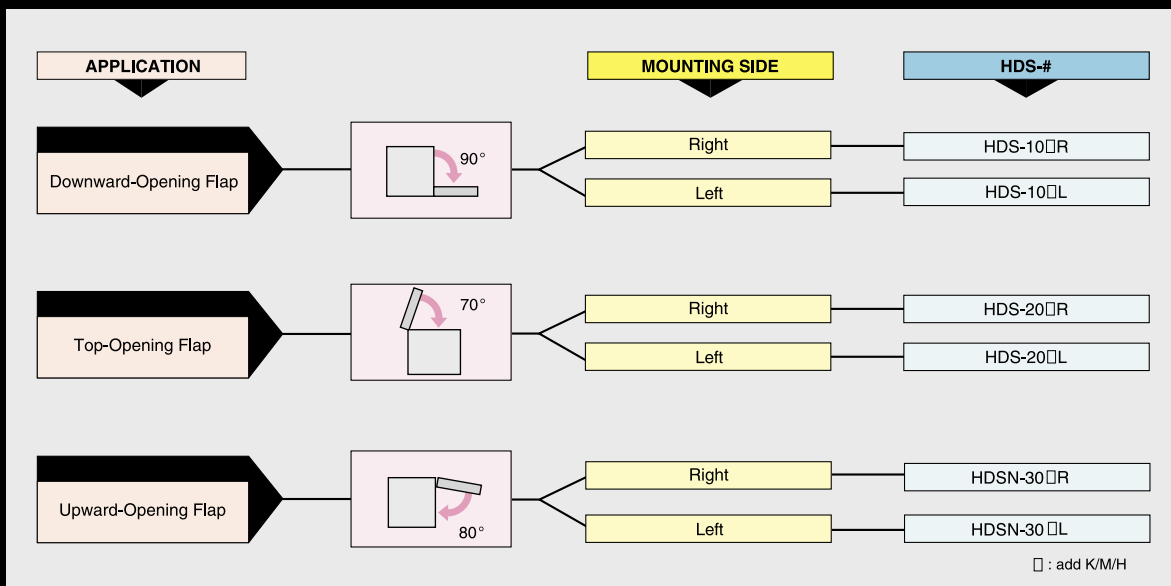


PAT

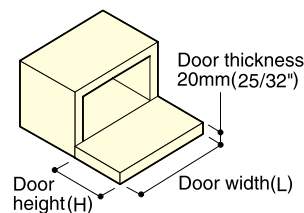
HEAVY DUTY SOFT-DOWN STAY

- Keeps flap/lid from slamming down or flying open.
- Recognized by LGA for 90,000 cycles.
- Used in pairs.

Designed to operate at room temperature
0°~40°C (32°~104°F).



For the right type selection, refer to the graph and the illustration.



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HEAVY DUTY SOFT-DOWN STAY



HDS-10



PAT

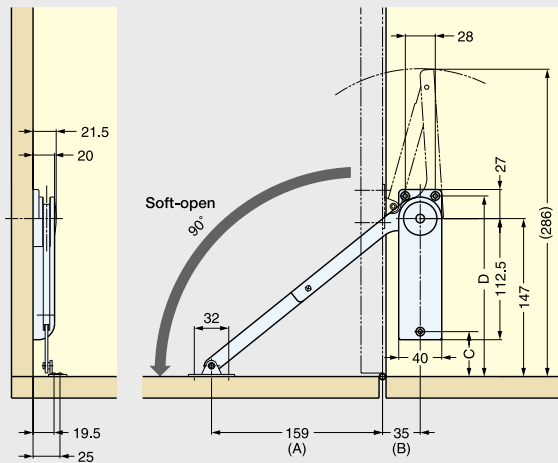
- For DOWNWARD-OPENING FLAP DOOR with piano, butt or drop hinges.
- HDS-10 is designed to hold door in closed and opened position.
- Used in pairs
- Torque Calculation :
Torque = Door Height x 1/2 x Door Weight
- K-Type (Light Duty) :
140~200 kg-cm (121~173 lbs-inch) / pair
- M-Type (Medium Duty) :
200~250 kg-cm (173~216 lbs-inch) / pair
- H-Type (Heavy Duty) :
250~300 kg-cm (216~260 lbs-inch) / pair

Material	Finish/Color
Steel	Nickel
Plastic	Black, White

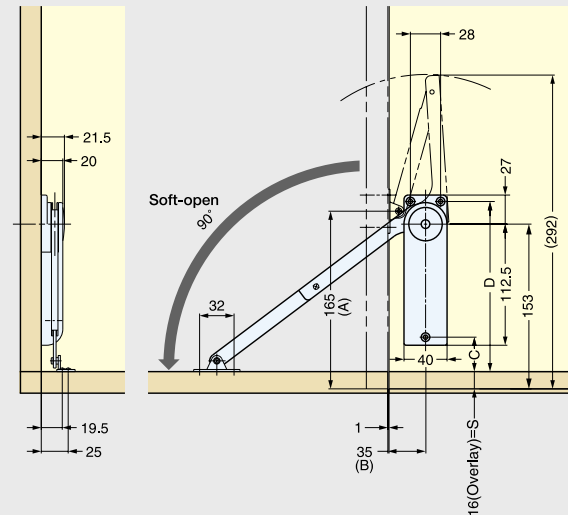
Hinge Type	A	B	C	D
Drop Hinge	165	35	48-S	174-S
Piano / Butt Hinge	159	35	42	168

S=Overlay coverage by drop hinge

With Single Knuckle Hinge

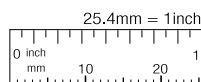


With Drop Hinge (SDH-001)



Item No.		Type	Torque (kg-cm/pair)	Weight (g)	Box (pcs)
Left	Right				
HDS-10KL	HDS-10KR	Light Duty	140~200	290	40
HDS-10ML	HDS-10MR	Medium Duty	200~250	290	40
HDS-10HL	HDS-10HR	Heavy Duty	250~300	310	40

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HEAVY DUTY SOFT-DOWN STAY

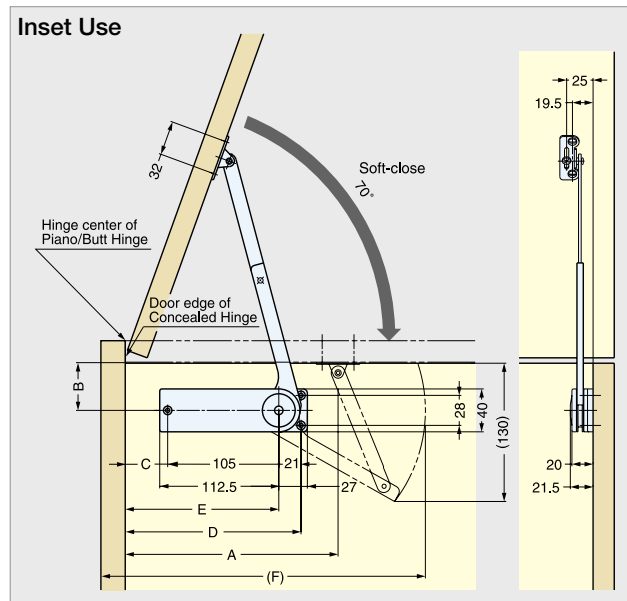
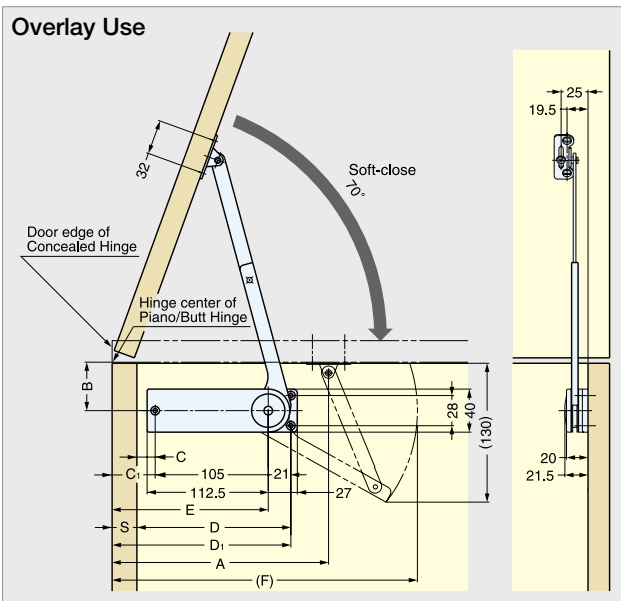


HDS-20



- For TOP-OPENING FLAP DOOR with piano, butt or concealed hinges.
- Used in pairs
- HDS-20 is designed to hold door in closed and opened position.
- Torque Calculation :
Torque = Door Height x 1/2 x Door Weight
- K-Type (Light Duty) :
140~200kg-cm (121~173 lbs-inch) / pair
- M-Type (Medium Duty) :
200~250 kg-cm (173~216 lbs-inch) / pair
- H-Type (Heavy Duty) :
250~300 kg-cm (216~260 lbs-inch) / pair

Material	Finish/Color
Steel	Nickel
Plastic	Black, White



Overlay Use

Hinge Type	A	B	C	D	C ₁	D ₁	E	F
Concealed Hinge	198.5	45	42-S	168-S	-	-	145	283.5
Piano / Butt Hinge	198.5	45	-	-	41	167	142.5	281

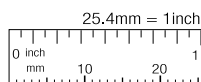
Inset Use

Hinge Type	A	B	C	D	E	F
Concealed Hinge	203	45	46	172	151	286
Piano / Butt Hinge	190	45	33	159	138	273

S=Overlay coverage by concealed hinge (mm)

Item No.		Type	Torque (kg-cm/pair)	Weight (g)	Box (pcs)
Left	Right				
HDS-20KL	HDS-20KR	Light Duty	140~200	280	40
HDS-20ML	HDS-20MR	Medium Duty	200~250	290	40
HDS-20HL	HDS-20HR	Heavy Duty	250~300	300	40

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HEAVY DUTY SOFT-DOWN STAY



HDSN-30

LID SUPPORTS

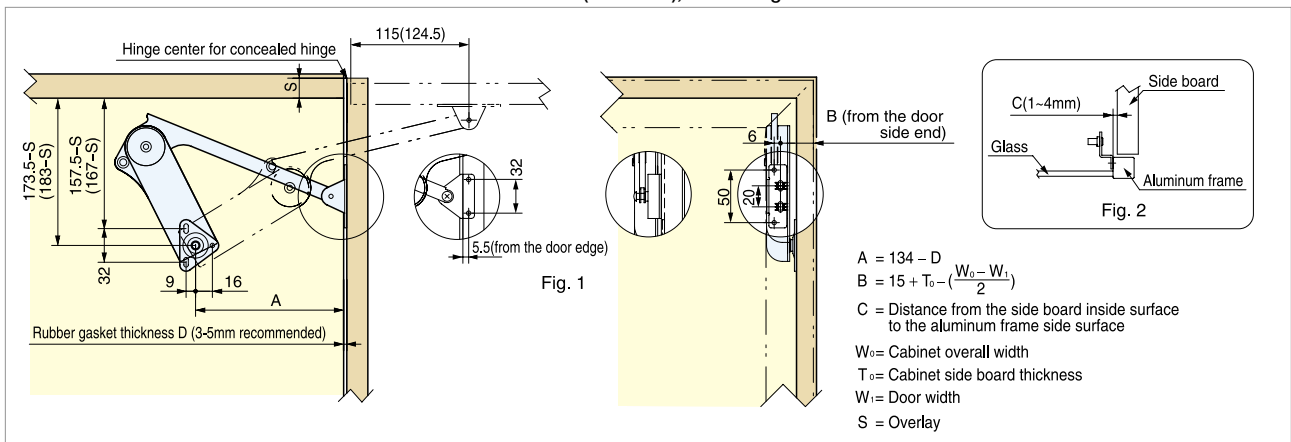
HEAVY DUTY SOFT-DOWN STAY



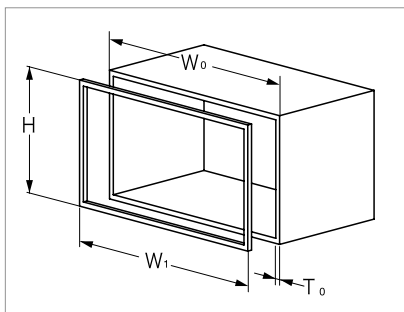
- For TOP-OPENING FLAP DOOR with concealed hinges.
- Used in pairs.
- HDSN-30 is designed to hold door in closed and opened position.
- Torque Calculation :
 Torque = Door Height x 1/2 x Door Weight
 K-Type (Light Duty) :
 140~189kg·cm (122~164 lbs·inch) / pair
 M-Type (Medium Duty) :
 190~229 kg·cm (165~199 lbs·inch) / pair
 H-Type (Heavy Duty) :
 230~269 kg·cm (200~234 lbs·inch) / pair
 S-Type (Super Heavy Duty) :
 270~300 kg·cm (235~260 lbs·inch) / pair

Material	Finish/Color
Steel	Nickel
Plastic	Light Grey

The dimensions in case of the 90° opening door are shown in the following figures. The dimensions in case of the 80° opening door are shown in (). This drawing shows the case of installation to 45mm width aluminum frame door or solid wooden door (HDSN-SZ). As for the case of installation to 20mm width aluminum frame door (HDSN-AZ), refer to Fig. 1 and 2.



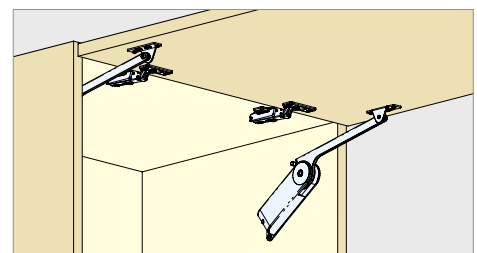
Selection Guide



Calculate the door torque according to the following formula considering the weight and the height of the applicable door.

$$\text{Door height (cm)} / 2 \times \text{Door weight (kg)} = \text{Door torque (kgf·cm)}$$

Concealed hinge (overlay use, non-catch type) should be used.



Arm Mounting Plate (Select either one)

Item No.	Applicable Door
HDSN-SZ	45mm width aluminum frame door or solid wooden door
HDSN-AZ	20mm width aluminum frame door

Item No.	Type	Door torque		Box (pcs)
		Opening angle 90°	Opening angle 80°	
HDSN-30KL / HDSN-30KR	K	140~189 kgf·cm (122~164 lbs·in)	140~199 kgf·cm (122~173 lbs·in)	40
HDSN-30ML / HDSN-30MR	M	190~229 kgf·cm (165~199 lbs·in)	200~249 kgf·cm (174~216 lbs·in)	40
HDSN-30HL / HDSN-30HR	H	230~269 kgf·cm (200~234 lbs·in)	250~299 kgf·cm (217~260 lbs·in)	40
HDSN-30SL / HDSN-30SR	S	270~300 kgf·cm (235~260 lbs·in)	300~350 kgf·cm (261~303 lbs·in)	40



SLUN

VERTICAL SWING LIFT-UP MECHANISM

- SLUN's unique swing mechanism will help lift doors and hold them up.
- Sleek, compact design provides maximum access.
- Easy installation.
- Adjustable arm mounting plate.
- Patented Lapcon technology offers smooth and quiet motion.
- Successfully passed 30,000 open / close private cycle tests.



PAT

Designed to operate at room temperature
0°~40°C (32°~104°F).



VERTICAL SWING LIFT-UP MECHANISM



SLUN



- Unique mechanism will help lifting door, and holds at open position.
- Sleek & compact design.
- Easy installation
- Adjustable mounting plate
- Patented LAPCON technology provides smooth and quiet motion.
- Successfully passed 30,000 open/close private cycle tests.
- Recommended Door Size and Weight :
Width, 600~900 mm (23-5/8"~35-7/16")
Height, 390~450 mm (15-23/64"~17-23/32") /door
Weight, 2.5~5.2 kg (5.5~11.4 lbs) /door

Material	Finish/Color
Steel	Nickel
Plastic	Grey

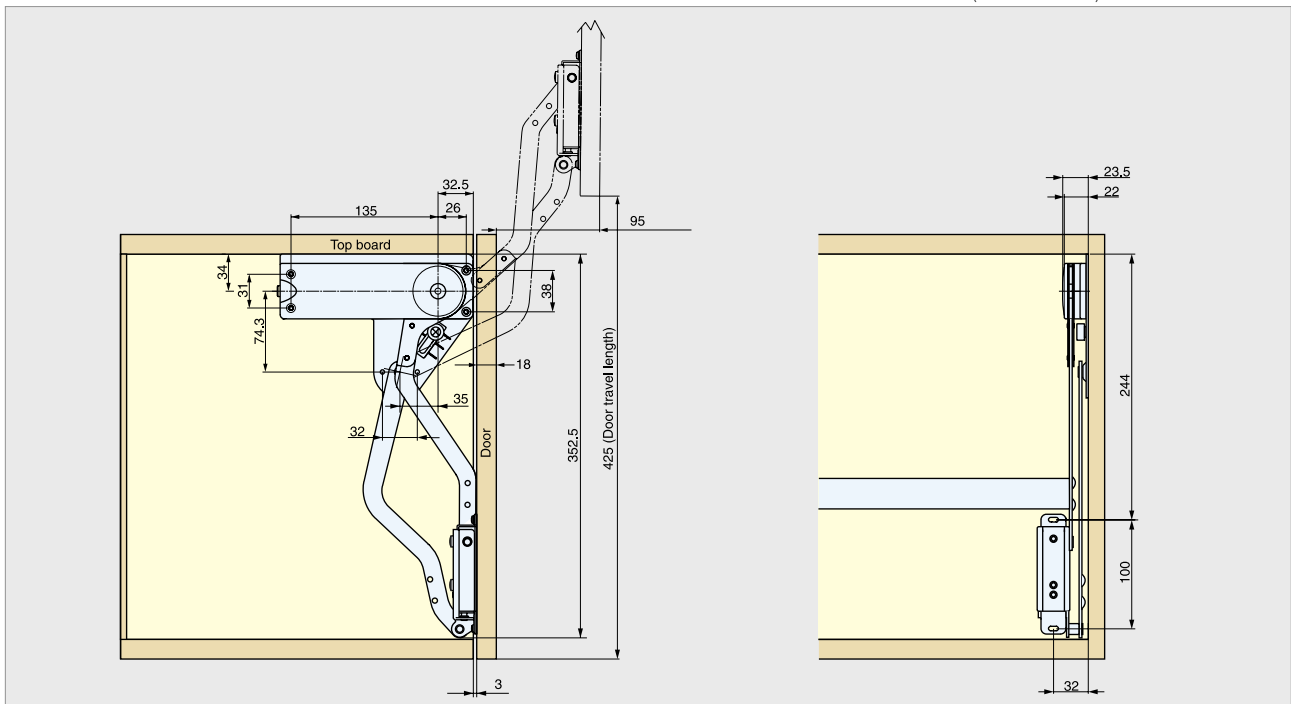
Guide Bar Length

	Cabinet Width (mm)	
	600(23-5/8")	900(35-7/16")
Solid Wood Door	535	835
Frame Door	551	851

*Please specify the door width when ordering.

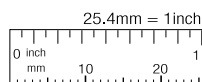


* SLUH (short arm version) available for shorter doors.



Item No	Door Weight (kg)	Box (set)
SLUN-3	2.5~3.5 (5.5 ~ 7.7 lbs)	5
SLUN-4	3.6~4.5 (7.9 ~ 9.9 lbs)	5
SLUN-5	4.6~5.2 (10.1 ~ 11.4 lbs)	5

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HBFN

HORIZONTAL BI-FOLDING DOOR MECHANISM



- HBFN's unique bi-fold door mechanism will assist in opening and closing doors in a smooth motion.
- The mechanism is compact, with no tracks or guides.
- Easy installation.
- Patented Lapcon technology offers smooth and quiet motion.
- Successfully passed 30,000 open / close private cycle tests.

Designed to operate at room temperature
0°~40°C (32°~104°F).



HORIZONTAL BI-FOLDING DOOR MECHANISM

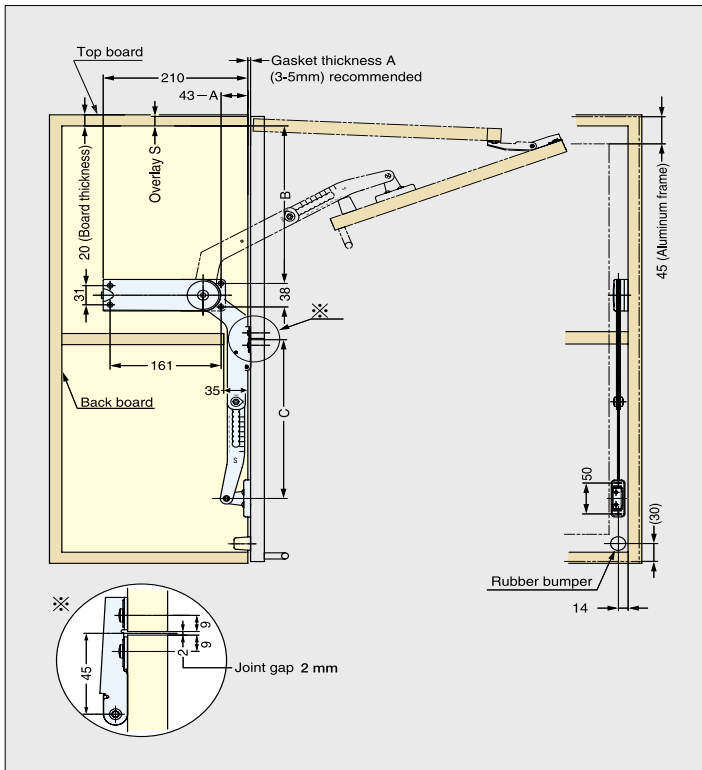
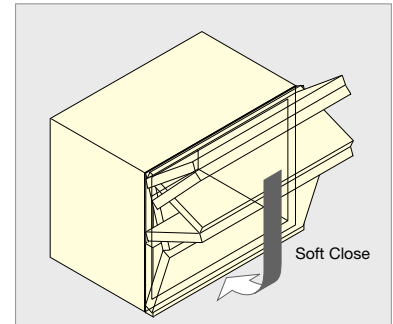


HBFN



- Unique new bi-fold door mechanism will assist the door open and close in smooth motion.
- No tracks or guides required.
- Handle position can be at the bottom of the door.
- Arm length adjustable for various door sizes.
- Patented LAPCON technology provides smooth and quiet motion.
- Recommended Door Size and Weight :
Width, 450~900 mm (17-23/32"~35-7/16")
Height, 260~370 mm (10-15/64"-14-9/16") /each door
Weight, 2.5~5.5 kg (5.5~12.1 lbs) /each door

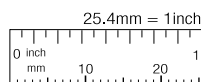
Material	Finish
Steel	Nickel
Plastic	Light Grey



Type	Door Height (mm)	Opening Angle 90°			Opening Angle 105°		
		Arm Position	B	C	Arm Position	B	C
S	260	1	171-S	189	2	162-S	190
	270	2	176-S	192	3	171-S	195
	280	3	182-S	196	4	180-S	202
	290	4	187-S	199	5	189-S	209
	300	5	192-S	202	6	198-S	216
	310	6	198-S	206	7	207-S	223
	320	7	203-S	209	8	216-S	230
M	320	1	247-S	241	4	226-S	244
	330	2	252-S	244	5	234-S	250
	340	3	258-S	248	6	243-S	257
	350	4	263-S	251	7	251-S	263
	360	5	269-S	255	8	259-S	269
	370	6	274-S	258	9	267-S	275

* Long arm version (L type) for taller door available as special order.

Item No	Door Height / door (mm)	Door Weight (kg/door)	Box (pcs)
HBFN-2S	260~320 (10-15/16"~12-19/32")	2.5~3.5 (5.5 ~ 7.7 lbs)	10
HBFN-3S		3.6~4.5 (7.9 ~ 9.9 lbs)	10
HBFN-4S		4.6~5.5 (9.9 ~ 12.1 lbs)	10
HBFN-2M	320~370 (12-19/32"~14-9/16")	2.5~3.5 (5.5 ~ 7.7 lbs)	10
HBFN-3M		3.6~4.5 (7.9 ~ 9.9 lbs)	10
HBFN-4M		4.6~5.5 (9.9 ~ 12.1 lbs)	10



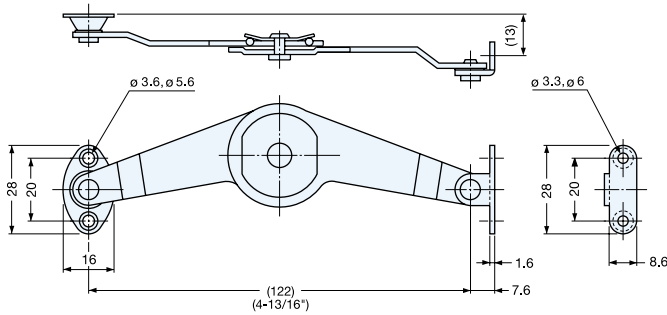
LID STAY (W/CATCH)



S-21

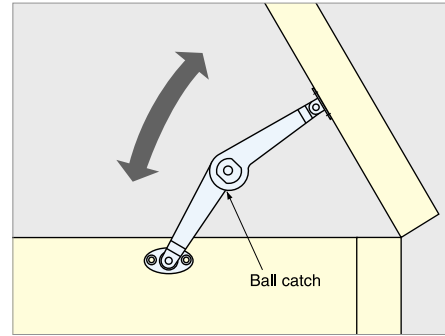


(Left)



- Stay with ball catch for light weight door.
- Catch holds lid opened.
- Left and Right handed available.

Material	Finish
Steel, Brass, Nylon (washer)	Chrome



Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-21L	S-21R	49	50	500

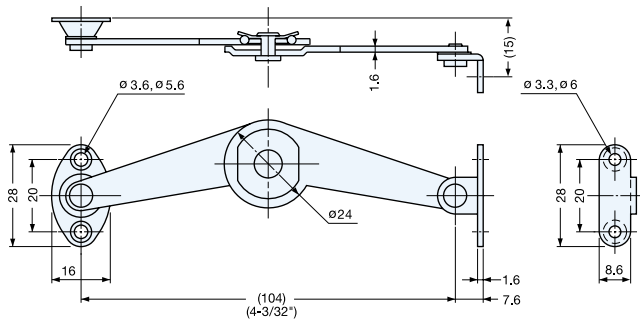
LID STAY (W/CATCH)



S-23

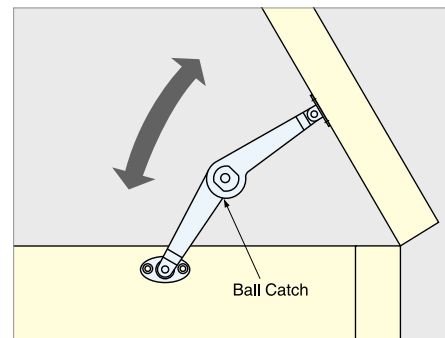


(Left)



- Stay with ball catch for light weight door.
- Catch holds lid opened.
- Left and Right handed available.

Material	Finish
Steel, Brass, Nylon (washer)	Chrome



Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-23L	S-23R	33	50	500

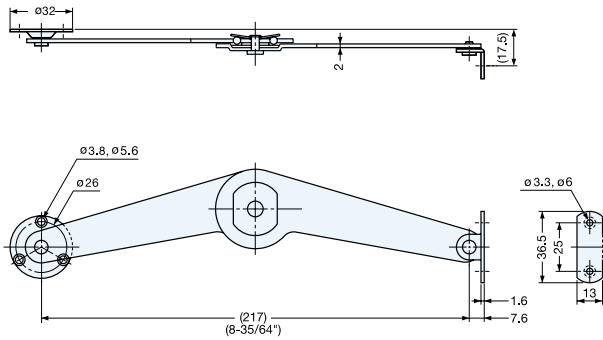
LID STAY (W/CATCH)



S-20

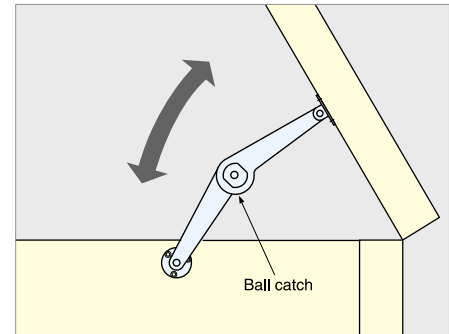


(Left)



- Stay with ball catch for light weight door.
- Catch holds lid opened.
- Left and Right handed available.

Material	Finish
Steel, Brass, Nylon (washer)	Chrome



Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-20L	S-20R	125	40	160

LID STAY



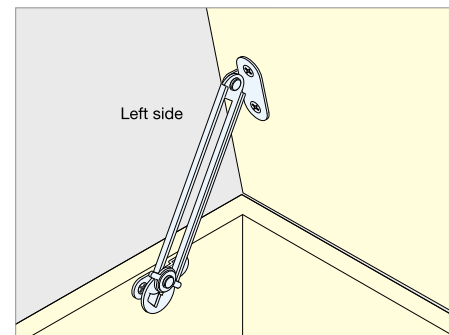
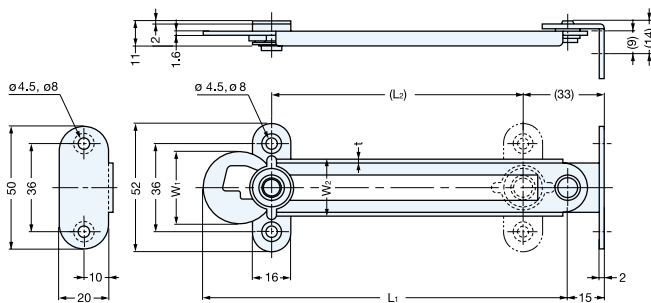
S-91, 92, 93



(Right)

- Stay holds lid in opened position.
- Lift up lid to release.
- Left and Right handed available.

Material	Finish
304 Stainless Steel	Polished



Item No.		L ₁	(L ₂)	W ₁	W ₂	t	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right									
S-91L	S-91R	277 (10-29/32")	230	30	24	2	40 (88lbs)	120	100	-
S-92L	S-92R	198 (7-51/64")	152	28	23	1.5	40 (88lbs)	85	30	180
S-93L	S-93R	150 (5-29/32")	105	28	23	1.5	30 (66lbs)	75	60	240

SPRING LOADED LID STAY



YT-01, 02

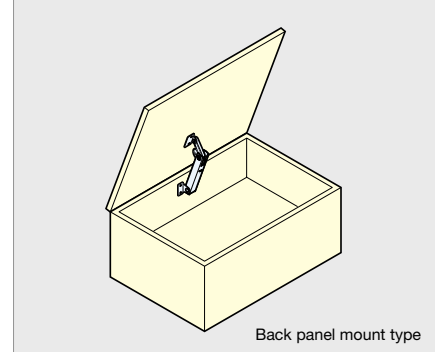
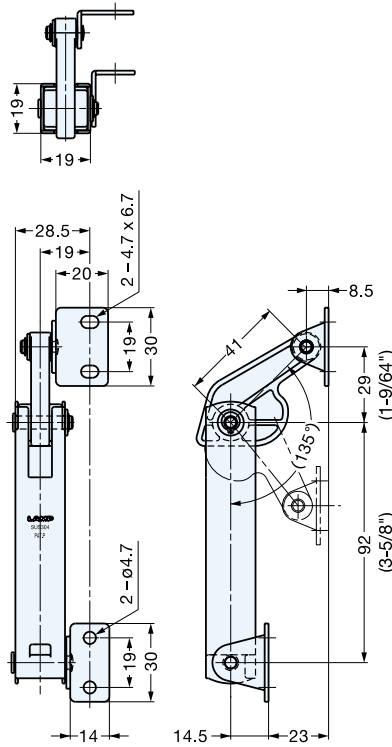
- Spring mechanism assists lifting door and holds in open position.

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Polished
②	Bracket		
③	Arm	Polyacetal	-



PAT

Back panel mount type

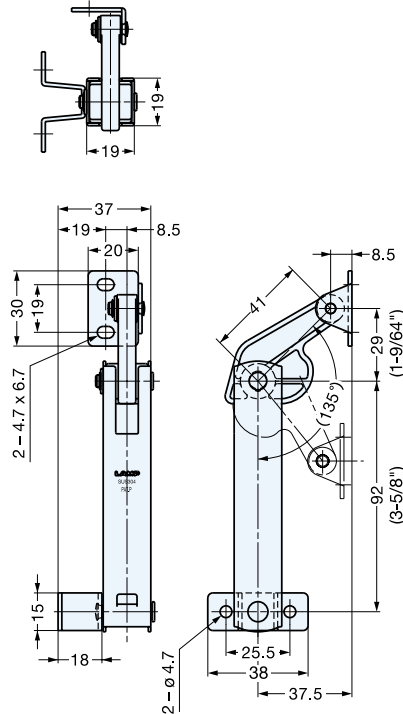


Back panel mount type

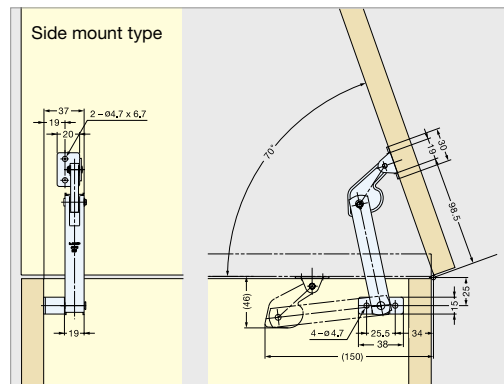


PAT

Side mount type
(Left handed shown)

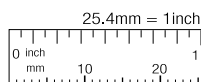


Side mount type



Item No.		Spring Tension	Mounting Type	Max. Torque (kgf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right						
YT-01L	YT-01R	Soft	Side	30 (26 lbs-in)	118	10	100
YT-02L	YT-02R	Hard		40 (34 lbs-in)			
YT-01S		Soft	Back Panel	30 (26 lbs-in)			
YT-02S		Hard		40 (34 lbs-in)			

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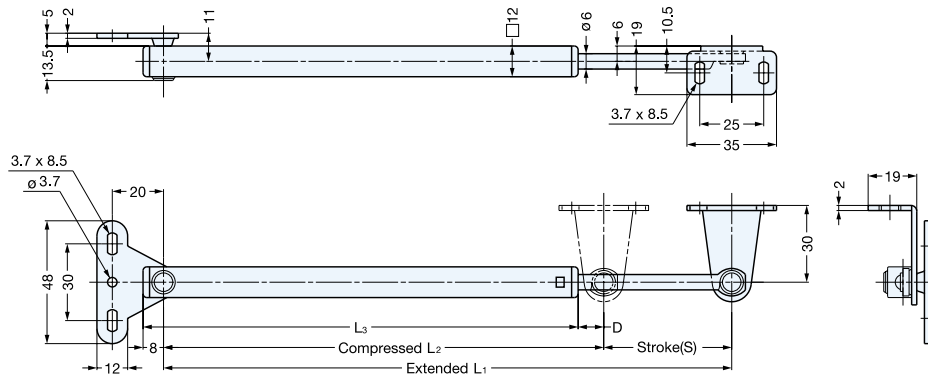


LK-222, 335, 380



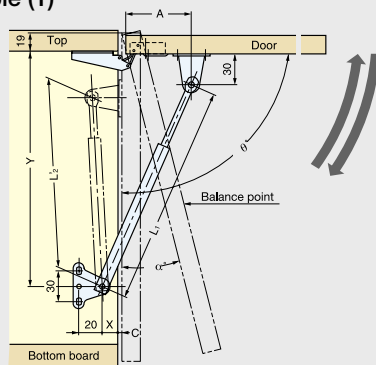
- Spring mechanism assists lifting door and holds in open position.
- Non-handed

Material	Finish
304 Stainless Steel	Satin



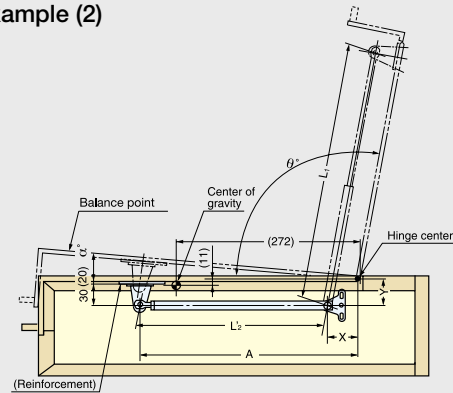
Mounting Example (1)

LK-222, LK-335
(Wooden door)



Mounting Example (2)

LK-335, LK-380
(Plastic Lid)

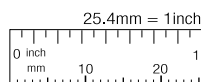


Item No.	Door Weight (kg)	Door Opening (θ°)	α (α°)	L ₁	A	X	Y
LK-222 (2 pcs)	2.5 (5.5 lbs)	90	17	222 (8-47/64")	70 (2-3/4")	20 (25/32")	235 (9-1/4")
	2.7 (5.9 lbs)	85	15	222 (8-47/64")	75 (2-61/64")	20 (25/32")	240 (9-29/64")
	3 (6.6 lbs)	75	14	222 (8-47/64")	85 (3-11/32")	20 (25/32")	251 (9-7/8")
LK-335 (2 pcs)	3.1 (6.8 lbs)	90	14	335 (13-3/16")	104 (4-3/32")	20 (25/32")	344 (13-35/64")
	3.3 (7.2 lbs)	85	12	335 (13-3/16")	112 (4-13/32")	20 (25/32")	351 (13-13/16")
	3.8 (8.3 lbs)	75	11	335 (13-3/16")	127 (5-1/8")	20 (25/32")	368 (14-31/64")

Item No.	Light Weight (kg)	Door Opening (θ°)	α (α°)	L ₁	A	X	Y
LK-335 (2 pcs)	2.5 (5.5 lbs)	90	0.5	335 (13-3/16")	295 (11-39/64")	45 (1-25/32")	38 (1-1/2")
	3 (6.6 lbs)	90	14	335 (13-3/16")	295 (11-39/64")	45 (1-25/32")	38 (1-1/2")
	3.3 (7.2 lbs)	85	12	335 (13-3/16")	295 (11-39/64")	45 (1-25/32")	44 (1-47/64")
LK-380 (2 pcs)	2.5 (5.5 lbs)	110	8	380 (14-31/32")	330 (13")	40 (1-37/64")	36 (1-27/64")
	3 (6.6 lbs)	90	3.5	380 (14-31/32")	335 (13-3/16")	55 (2-5/32")	44 (1-47/64")
	4 (8.8 lbs)	90	4	380 (14-31/32")	320 (12-19/32")	41 (1-39/64")	59 (2-21/64")
	4.3 (9.4 lbs)	80	7.5	380 (14-31/32")	335 (13-3/16")	56 (2-13/64")	60 (2-23/64")

Item No.	L ₁	L ₂	L ₃	S	D	Extended Force (kgf)	Compressed Force (kgf)	Weight (g)	Box (pcs)	Carton (pcs)
LK-222	222 (8-47/64")	172 (6-25/32")	170 (6-11/16")	50 (1-11/32")	10 (25/64")	3.2	7.0	145	25	150
LK-335	335 (13-3/16")	250 (9-27/32")	238 (9-3/8")	85 (3-11/32")	20 (25/32")	3.8	8.5	185	25	150
LK-380	380 (14-31/32")	280 (11-1/32")	269 (10-19/32")	100 (3-15/16")	19 (3/4")	3.6	8.5	205	25	150

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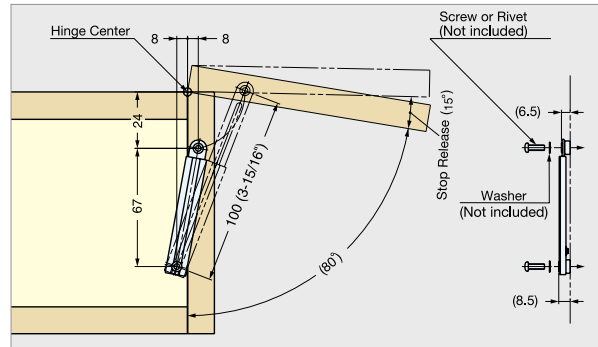
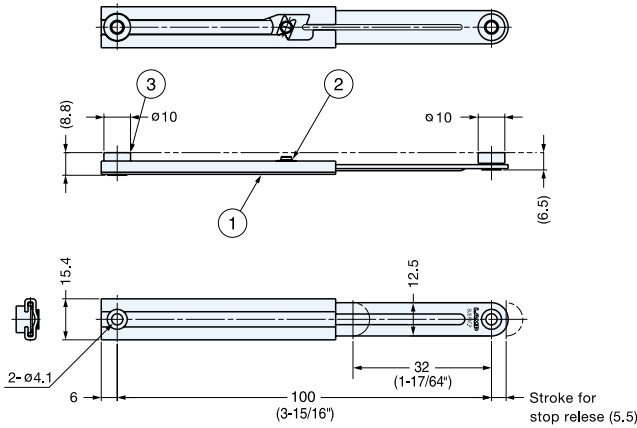
ULTRA MINI LID STAY



L-100S



PAT



- Stainless steel stay for holding lid or panel in open position.
- Lift up lid to release.
- Non-handed
- Compact design
- Only one stay per lid required.
- Load Capacity: 6 kg (13.2 lbs) /each

No.	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Polished
②	Washer	Polyacetal	-
③	Bracket	303 Stainless Steel	-

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
L-100S	6 (13.2lbs)	31	30	300

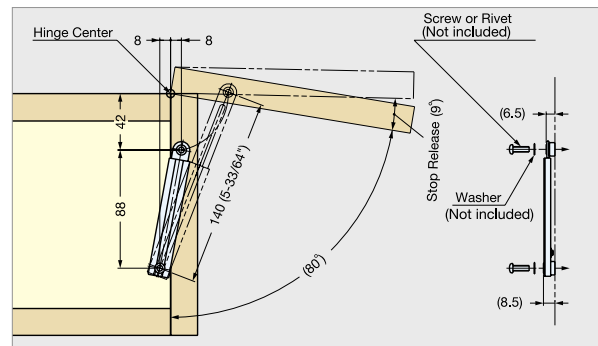
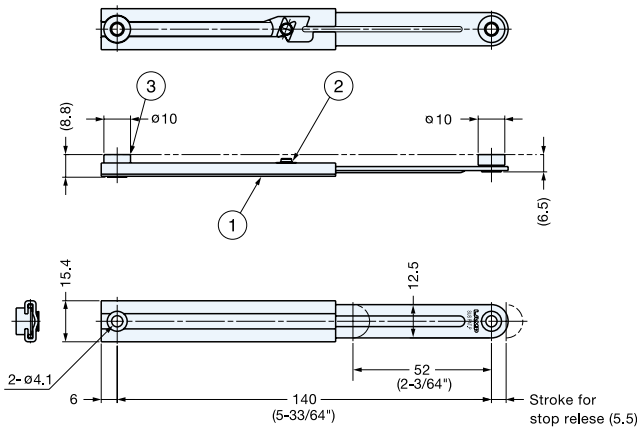
MINI LID STAY



L-140S



PAT

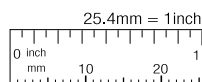


- Stainless steel stay for holding lids or panels in open position.
- Lift up lid to release.
- Non-handed
- Compact design
- Only one stay per lid required.
- Load Capacity: 6 kg (13.2 lbs) /each

No.	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Polished
②	Washer	Polyacetal	-
③	Bracket	303 Stainless Steel	-

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
L-140S	6 (13.2lbs)	38	30	300

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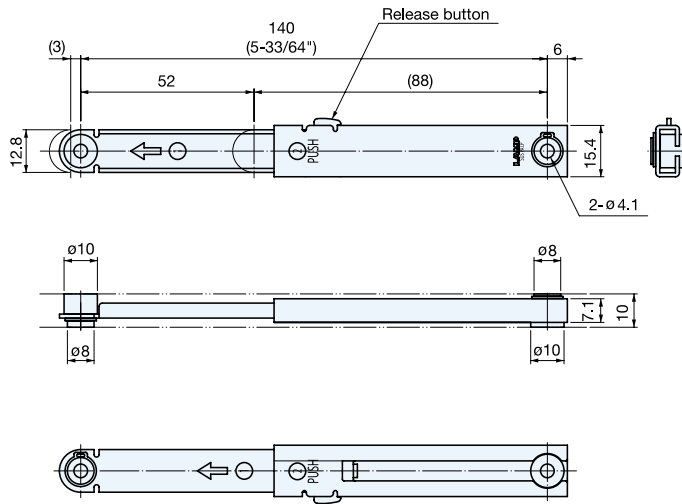
MINI LID STAY (W/LOCK)



L-SL140

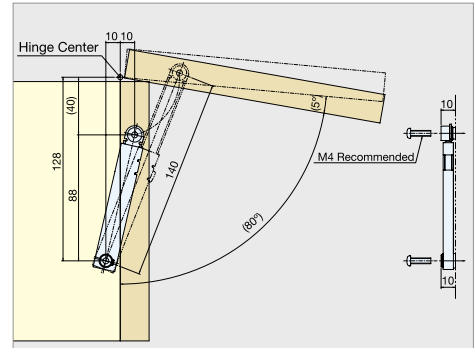


PAT.P



- Mechanically locks lid/panel when fully opened.
- Ideal for vibration or shock application.
- Push button to release.
- Non-handed, works on either side.
- Only one stay per lid required.

Item No.	Material	Finish
L-SL140	304 Stainless Steel	Polished



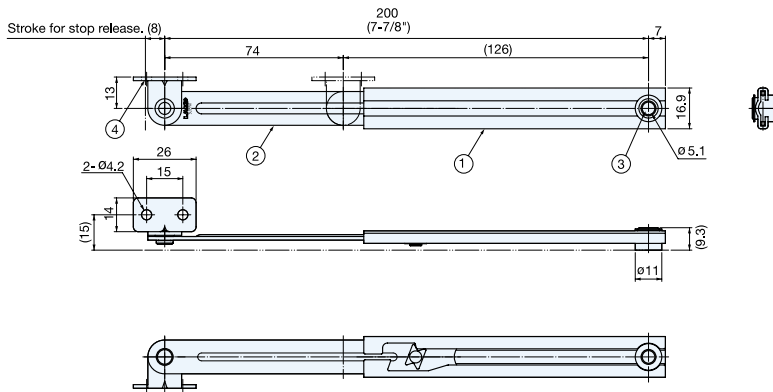
LID STAY



L-200P



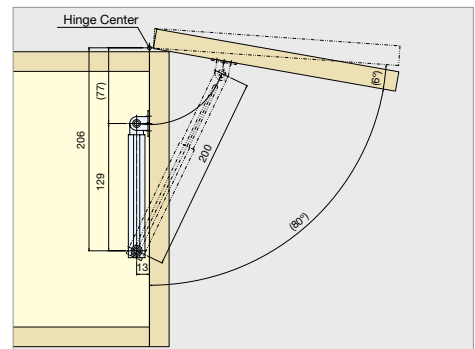
PAT



- Holds lid or panel in fully opened position.
- Lift up the lid to release.
- Non-handed, works on either side.
- Compact design

Item No.	Load Capacity (kg)
L-200P	15 (33 lbs)

No.	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Polished
②	Arm		
③	Housing Bracket	303 Stainless Steel	Plain
④	Arm Bracket	304 Stainless Steel	Polished



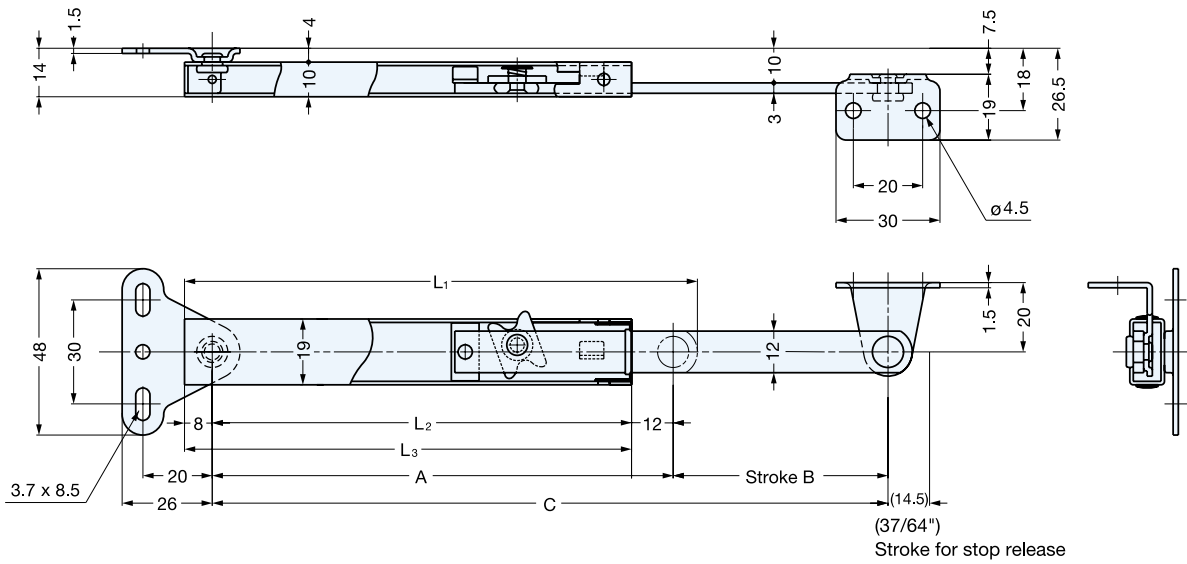
LID STAY



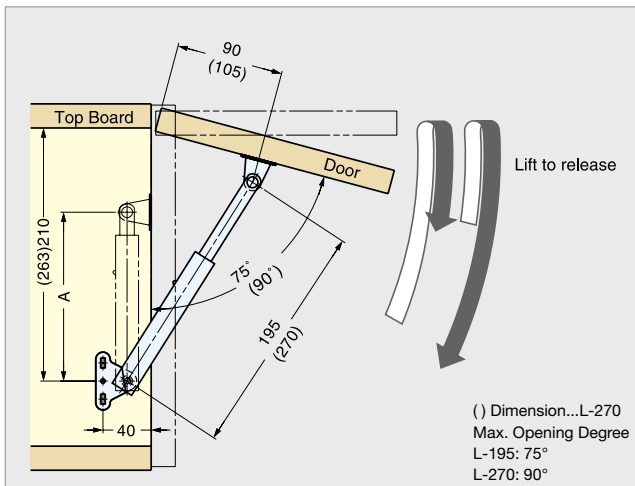
L-195, 270

- Stainless steel stay for holding lid in open position.
- Lift up lid to release.
- Non-handed
- Only one stay per lid required.
- Load Capacity: 15 kg (33 lbs) /each

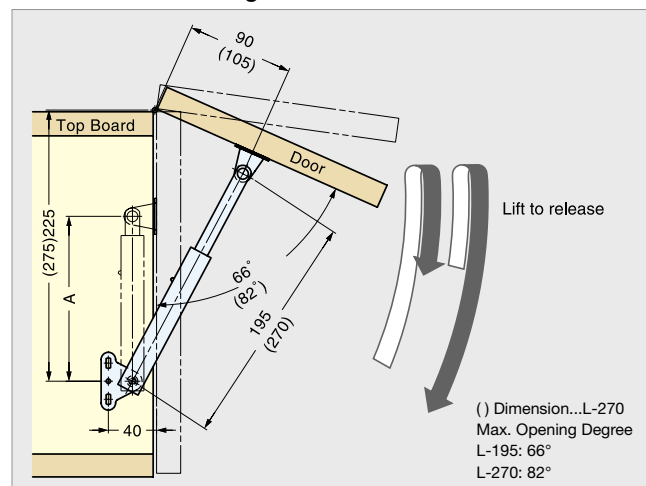
Material	Finish
304 Stainless Steel	Satin



With Concealed Hinge



With Piano / Butt Hinge



Item No.	L ₁	L ₂	L ₃	A	B	C	Door Height	Weight (g)	Box (pcs)	Carton (pcs)
L-195	148 (5-53/64")	121	129	133 (5-15/64")	62	195 (7-43/64")	250~350 (9-27/32~13-25/32")	125	10	100
L-270	185 (7-9/32")	158	166	170 (6-11/16")	100	270 (10-5/8")	320~500 (12-19/32~19-11/16")	150	10	100

LID STAY

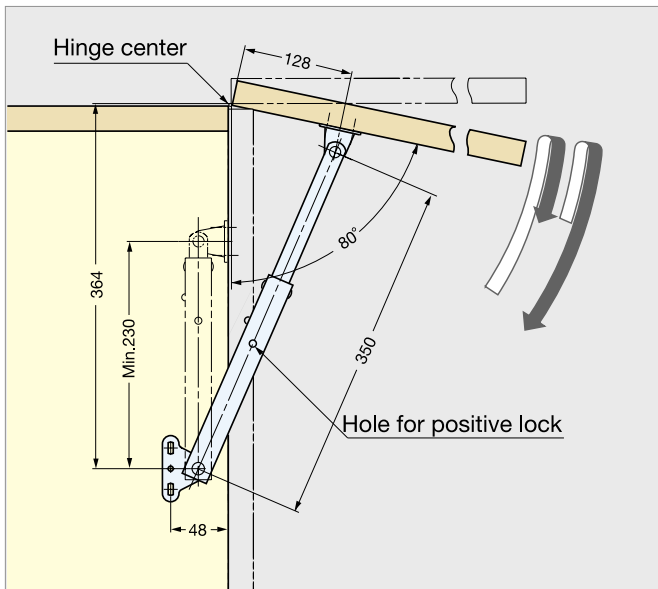
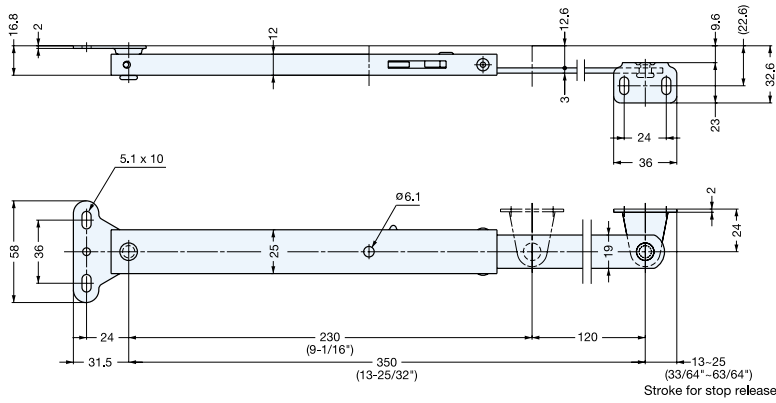


LB-350



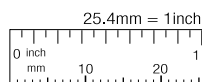
- Stainless steel stay to hold lid opened.
- Lift up lid to release.
- Non-handed
- Can be used singly or in pairs.
- Load Capacity: 25 kg (55 lbs) /each

Material	Finish
304 Stainless Steel	Satin



Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
LB-350	25 (55 lbs)	300	10	40

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LID STAY (W/LEVER)

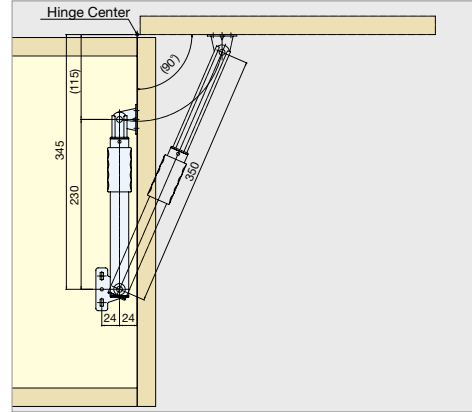
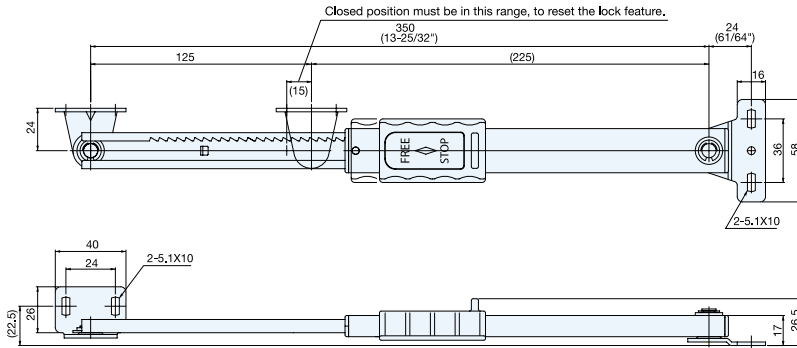


L-FSS350A



- Holds lid in multiple positions.
- Ideal for vibration or shock applications.
- Slide lever to release.
- Completely close door to reset the lock feature.
- Non-handed, works on either side.
- Only one stay per lid required.

Item No.	Material	Finish/Color
L-FSS350A	304 Stainless Steel	Satin
	Polyacetal	Dark Grey



LID STAY (W/LOCK)

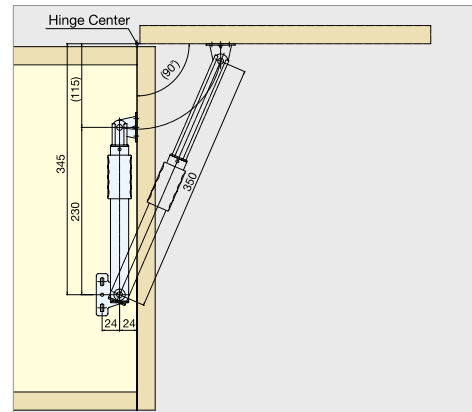
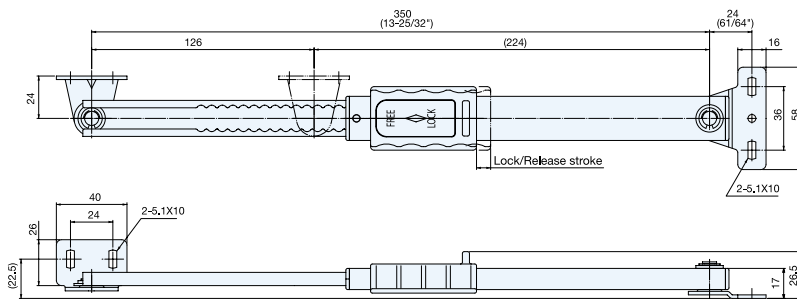


L-FS350A



- Locks lid in multiple positions by sliding lock lever.
- Ideal for vibration or shock applications.
- Slide back the lever to release.
- Non-handed, works on either side.
- Can be used singly or in pairs.

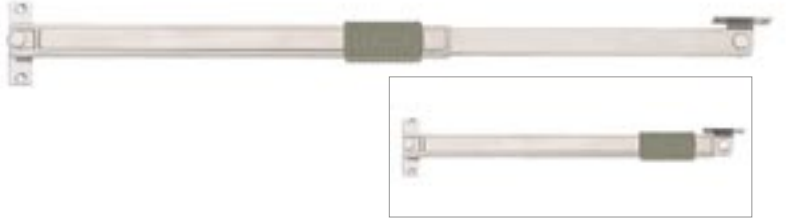
Item No.	Material	Finish/Color
L-FS350A	304 Stainless Steel	Satin
	Polyacetal	Dark Grey



MULTI-ANGLE DOOR STAY

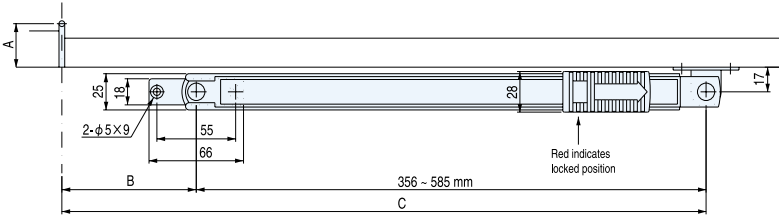


U-3005



- Holds door opened at multiple angles.
- For outward opening door use.
- Door opening angle : 100° maximum
- Recommended door size
 Height – Max. 2,000 mm (78-3/4")
 Width – 600 ~ 910 mm (23-5/8 ~ 35-53/64")
 Thickness – 25~45 mm (1 ~ 1-3/4")

Material	Finish/Color
304 Stainless Steel	Satin
Polyacetal	-



A, B and C dimensions are for 90° door opening angle

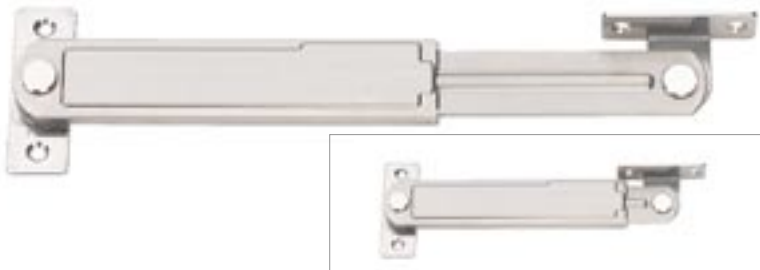
A	30 (1-11/64")	35 (1-3/8")	40 (1-37/64")	45 (1-49/64")	50 (1-31/32")
B	160 (6-19/64")	160 (6-19/64")	160 (6-19/64")	160 (6-19/64")	155 (6-3/32")
C	525 (20-49/64")	520 (20-15/32")	515 (20-9/32")	510 (20-5/64")	505 (19-7/8")

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
U-3005	338	6	60

MULTI-ANGLE DOOR STAY

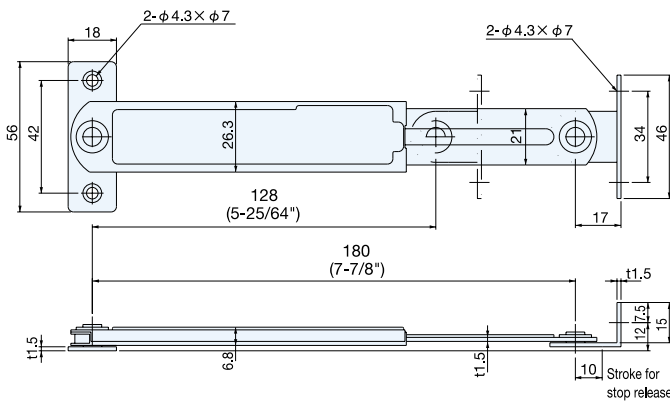


U-3031



- Ratchet stay holds flap lid at multiple angles.
- Non-handed
- Thin and compact design.
- Load Capacity: 7 kg (15 lbs) /each

Material	Finish
304 Stainless Steel	Satin



Item No.	Stop Positions	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
U-3031	15	7 (15lbs)	127	10	100

HEAVY DUTY MULTI-ANGLE LID STAY



LBTS-350, 450



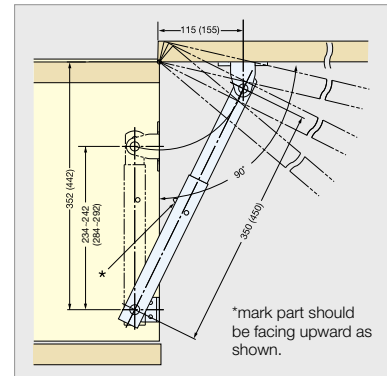
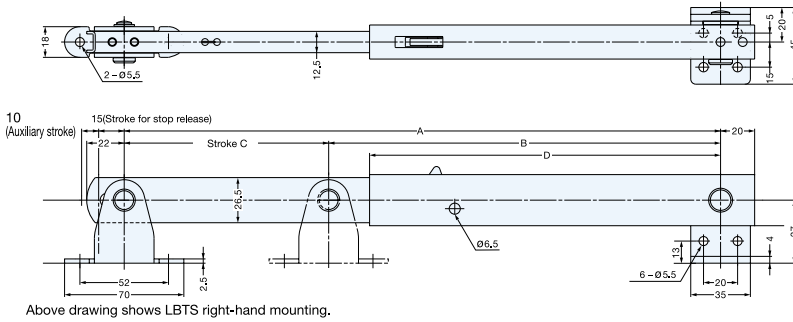
LBTS-350



LBTS-450

- Ratchet stay holds lid at multiple angles.
- Non-handed
- Only one stay per lid required.
- Load Capacity: 70kg (154 lbs) /each

Material	Finish
304 Stainless Steel	Satin



Measurements above in () are for LBTS-450.

Item No.		A	B	C	D	Stop Positions	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right									
LBTS-350L	LBTS-350R	350(13-25/32")	230(9-1/16")	120(4-23/32")	206(8-7/64")	4	70 (154 lbs)	715	5	20
LBTS-450L	LBTS-450R	450(17-25/32")	280(11-1/32")	170(6-11/16")	256(10-5/64")	6	70 (154 lbs)	820	5	20

MINI LID STAY (W/LOCK)

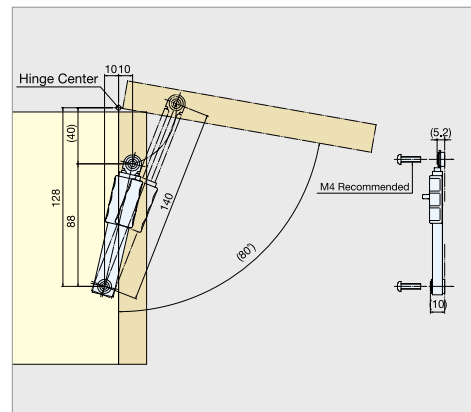
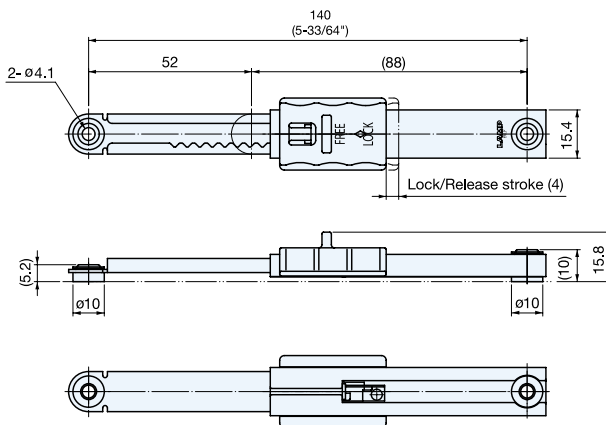


L-FS140



- Locks lid/panel at multiple angles.
- Ideal for vibration or shock applications.
- Slide lever to lock/release.
- Unhanded, works on either side.
- Can be used singly or in pairs.

Item No.	Material	Finish/Color
L-FS140	304 Stainless Steel	Polished
	Polyacetal	Dark Grey



LID STAY (W/RELEASE BUTTON)

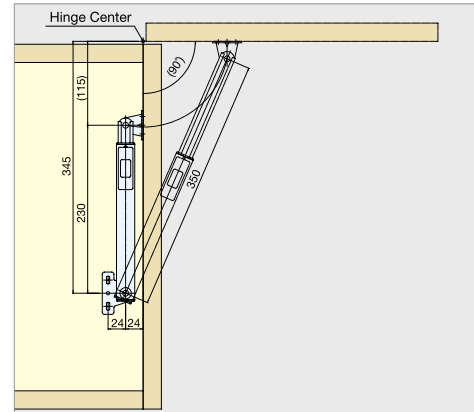
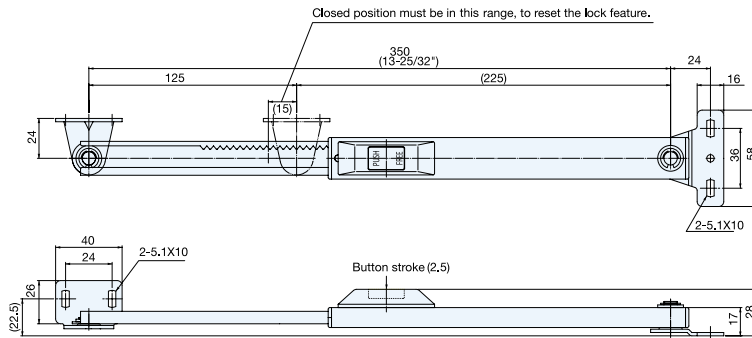


L-FSP350A



- Holds lid in multiple positions.
- Ideal for vibration or shock application.
- Push button to release.
- Completely close door to reset the lock feature.
- Non-handed, works on either side.
- Only one stay per lid required.

Item No.	Material	Finish/Color
L-FSP350A	304 Stainless Steel	Satin
	Polyacetal	Dark Grey



LID STAY

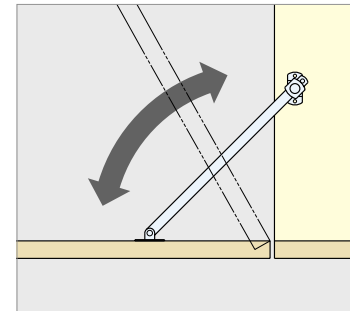
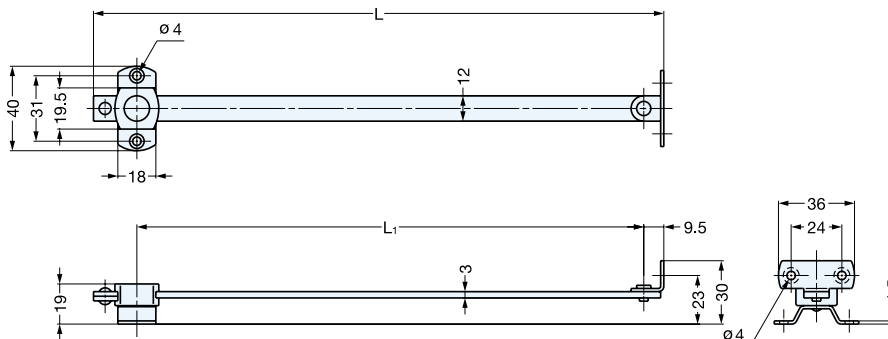


HS-180, 210, 240



- For downward-opening flap door.

Material	Finish/Color
304 Stainless Steel	Satin
Polyamide	White

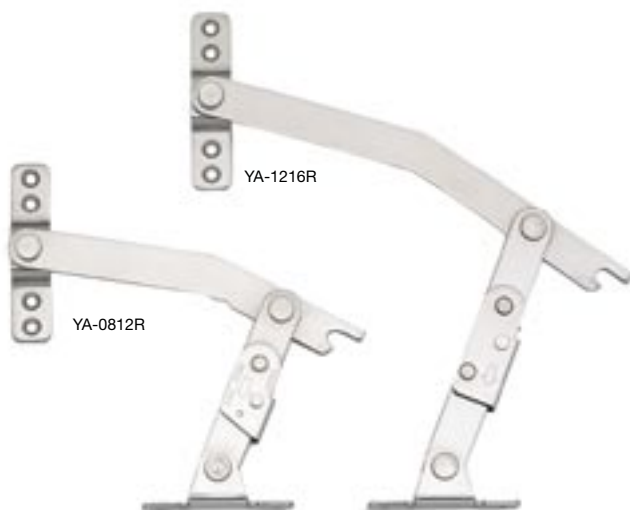


Item No.	L	L ₁	Weight (g)	Box (pcs)	Carton (pcs)
HS-180	210 (8-17/64")	180 (7-3/32")	80	20	220
HS-210	240 (9-29/64")	210 (8-17/64")	90	20	220
HS-240	270 (10-5/8")	240 (9-29/64")	100	20	220

DOOR HOLDER



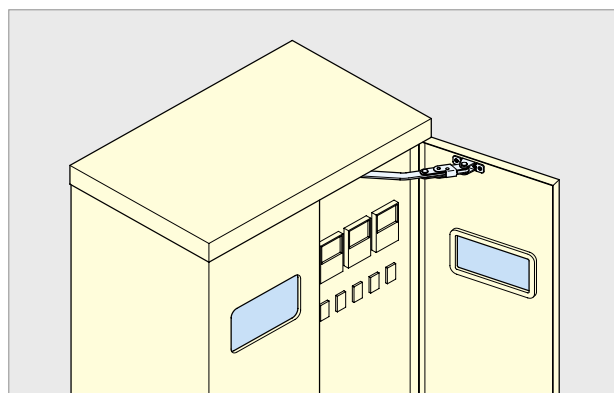
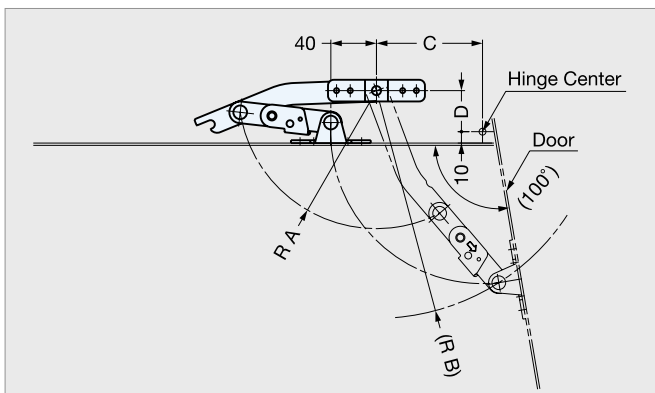
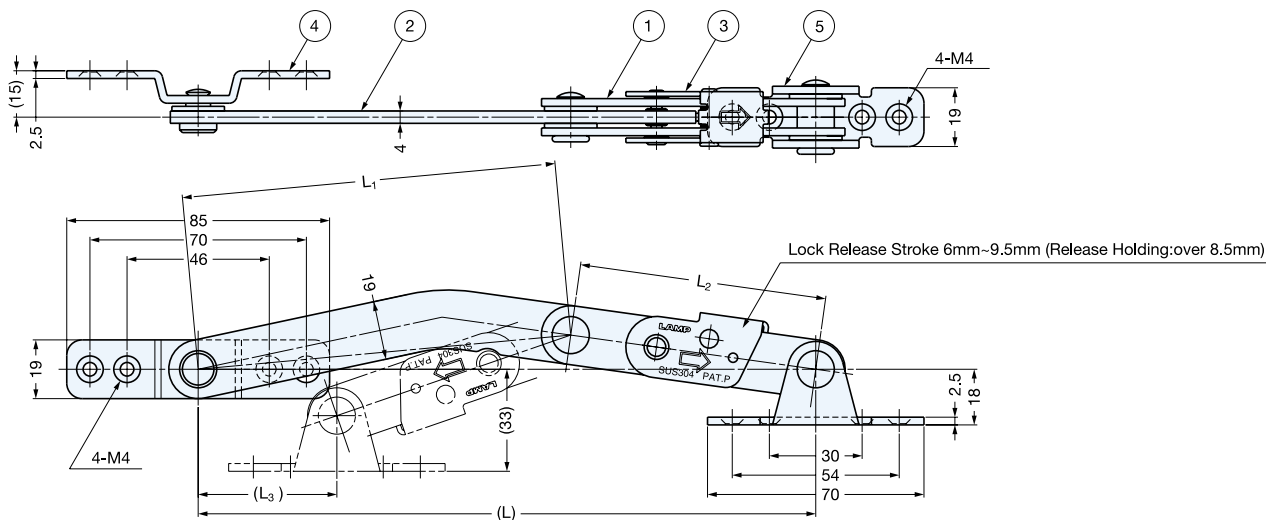
YA-0812, 1216



- Mechanically locks door when fully opened.
- Slide the locking lever to release lock. Lever will keep the unlocked position until the door is moved, for easy handling.
- Left and Right handed available.

No.	Part Name	Material	Finish
①	Outer Plate	304 Stainless Steel	Polished
②	Arm		
③	Slide Grip		
④	Arm Bracket		
⑤	Base Bracket		

PAT. P



Item No.	Type	L	L ₁	L ₂	L ₃	A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
YA-0812L	Left	200	121	80	45	121	200	93	36	291	5	30
YA-0812R	Right	(7-7/8")	(4-49/64")	(3-5/32")								
YA-1216L	Left	280	161	120	44	161	280	145	40	340	5	30
YA-1216R	Right	(11-1/32")	(6-11/32")	(4-23/32")								

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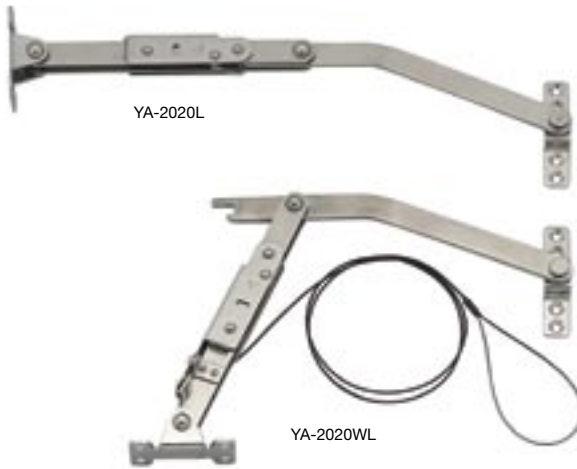
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DOOR HOLDER



YA-2020, 2020W

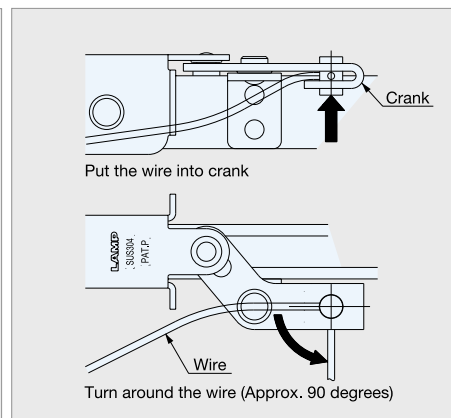
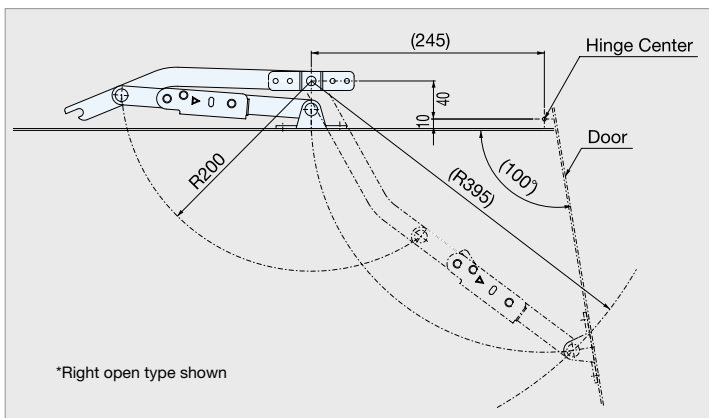
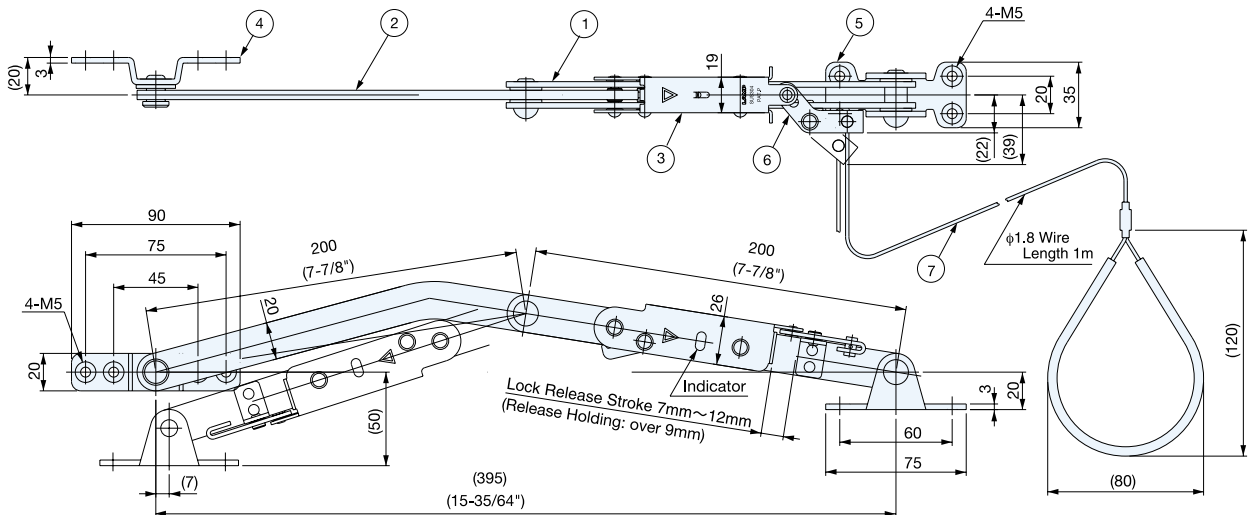


- Mechanically locks door when fully opened.
- Slide the locking lever to release lock. Locking grip will keep unlocked until the door is moved, for easy handling.
- YA-2020 WR/WL (with lock release wire) available for tall application.
- Left and Right handed available.
- Tensile Force : Max. 150kgf(330 lbs)
- Compression Load : Max. 60kgf(132 lbs)

Material	Finish
304 Stainless Steel	Polished



PAT. P



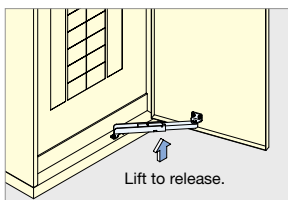
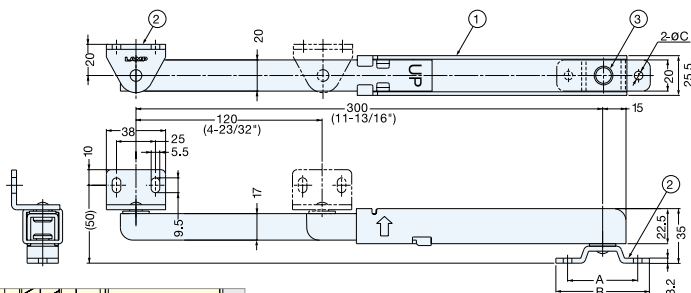
Installation of lock-release wire

	Item No.	Type	Weight (g)	Box (pcs)	Carton (pcs)
With Wire	YA-2020WR	Right Open	650	4	16
	YA-2020WL	Left Open	650	4	16
Without Wire	YA-2020R	Right Open	630	4	16
	YA-2020L	Left Open	630	4	16

FOOT STAYS

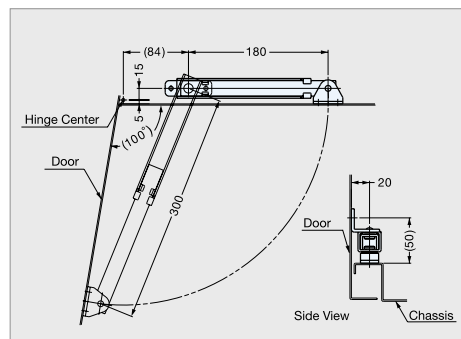


YF-300, 300-T50



- Mechanically locks door when fully opened.
- Simply lift the stay with foot toe to release the lock.
- Designed for bottom mount.
- Non-handed

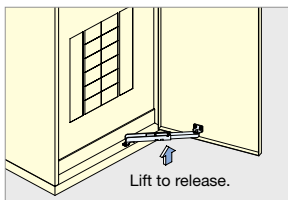
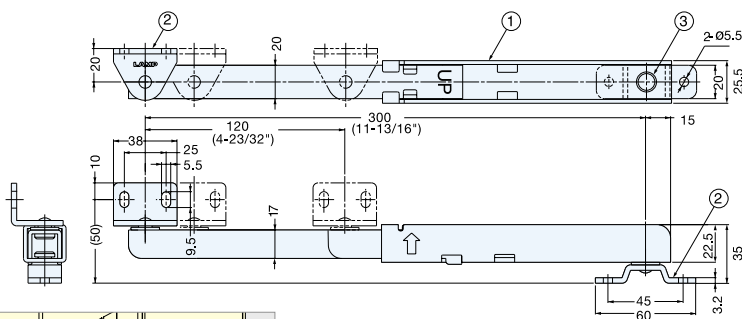
No.	Part Name	Material	Finish
①	Body	Steel	Yellow Zinc Chromate
②	Bracket		
③	Pin	304 Stainless Steel	-



Item No.	A	B	øC	Tensile Force (kg-f)	Compression Load (kg-f)	Weight	Box (pcs)	Carton (pcs)
YF-300	45	60	5.5	Max.150 (330 lbs)	Max.60 (132 lbs)	433	5	30
YF-300-T50	50	72	9	Max.150 (330 lbs)	Max.60 (132 lbs)	460	5	30

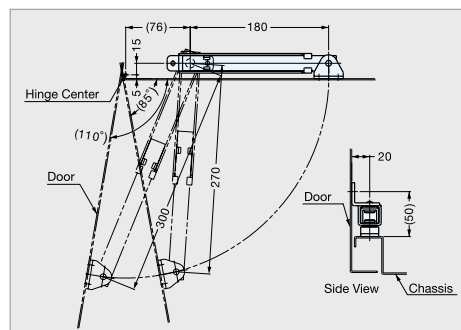
FOOT STAY (2 STOP VERSION)

YF-300W



- Mechanically locks door at 85° and 110°.
- Simply lift the stay with foot toe to release the lock.
- Locks at 2 position. (85° and 110°)
- Designed for bottom mount.
- Non-handed

No.	Part Name	Material	Finish
①	Body	Steel	Yellow Zinc Chromate
②	Bracket		
③	Pin	304 Stainless Steel	-



Item No.	Tensile Force (kg-f)	Compression Load (kg-f)	Weight	Box (pcs)	Carton (pcs)
YF-300W	Max.150 (330 lbs)	Max.60 (132 lbs)	452	5	30

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HOOKS



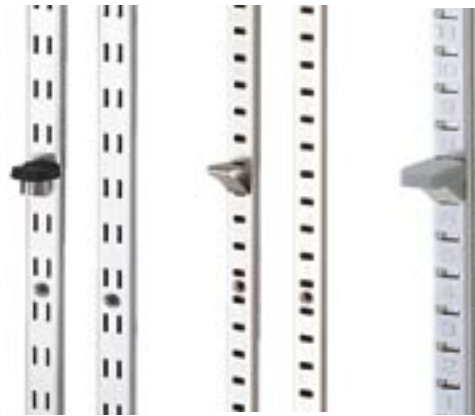
FOLDING BRACKETS



BRACKETS

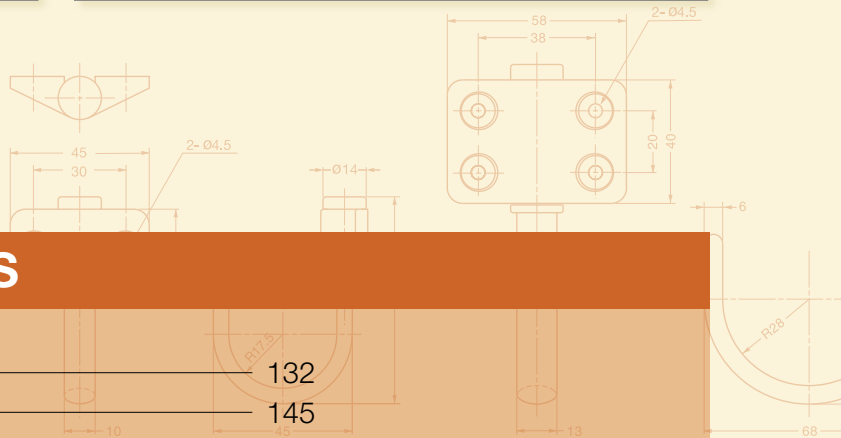


SHELF STANDARDS



HOOKS & BRACKETS

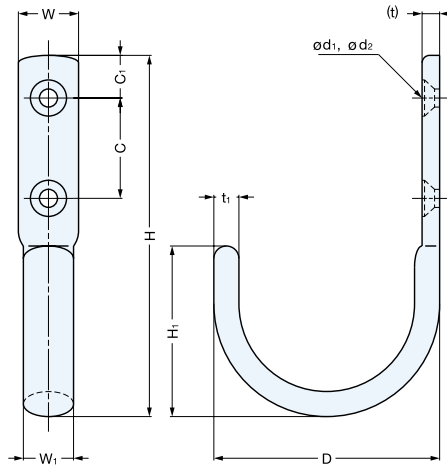
- HOOKS ————— 132
- FOLDING BRACKETS ————— 145
- BRACKETS ————— 149
- SHELF STANDARDS ————— 151



LARGE UTILITY HOOK



JF-45, 70, 110



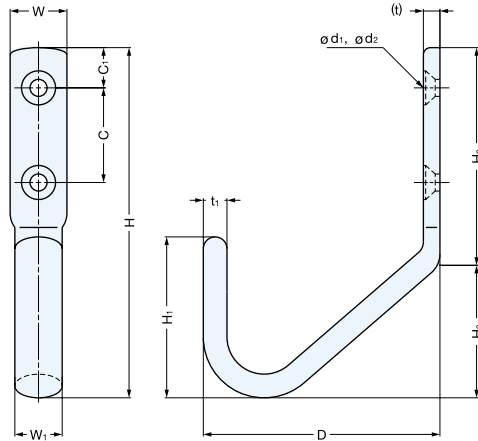
Material	Finish
303 Stainless Steel	Mirror

Item No.	D	W	W ₁	H	H ₁	C	C ₁	t	t ₁	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
JF- 45	45 (1-25/32")	12	10	72 (2-27/32")	34	20	8.5	3.5	5	3.8	7.2	10 (22 lbs)	40	20	120	3.5×16
JF- 70	68 (2-43/32")	16	13	120 (4-23/32")	55	35	15	4	6	4.3	8.6	10 (22 lbs)	95	6	36	4.1×20
JF-110	110 (4-21/32")	18	14	200 (7-7/8")	90	70	17	5.5	8	5.3	10.6	12 (26 lbs)	270	5	30	5.1×32

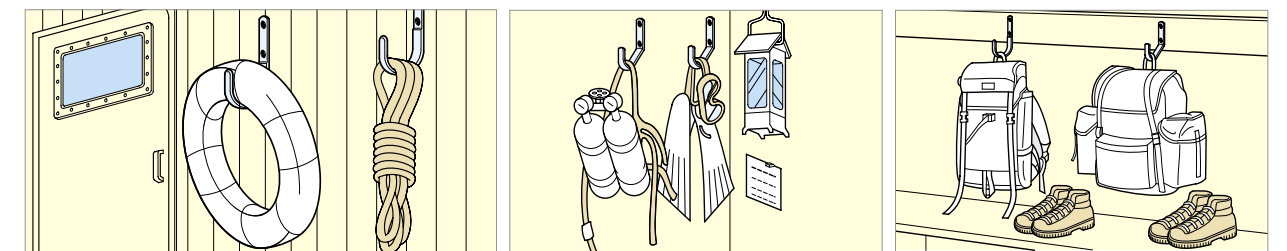
LARGE UTILITY HOOK



JF-50, 80, 120

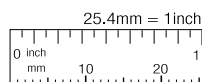


Material	Finish
303 Stainless Steel	Mirror



Item No.	D	W	W ₁	H	H ₁	H ₂	H ₃	C	C ₁	t	t ₁	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
JF- 50	50 (1-31/32")	12	10	74 (2-29/32")	34	46	28	20	8.5	3.5	5	3.8	7.2	12 (26 lbs)	40	20	120	3.5×16
JF- 80	80 (3-5/32")	16	13	115 (4-17/32")	50	65	50	30	15	4	6	4.3	8.6	20 (44 lbs)	95	6	36	4.1×20
JF-120	120 (4-23/32")	18	14	200 (7-7/8")	90	112	88	70	17	5.5	8	5.3	10.6	22 (48 lbs)	266	5	30	5.1×32

LAMP LAMP BRAND by SUGATSUNE



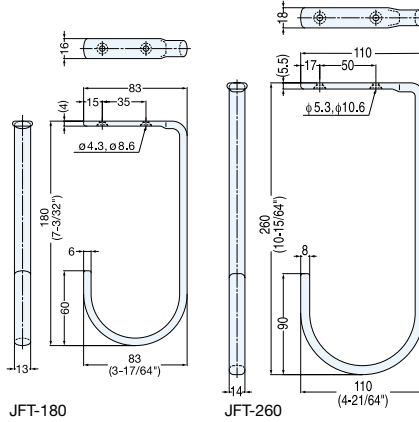
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LARGE UTILITY HOOK



JFT-180, 260



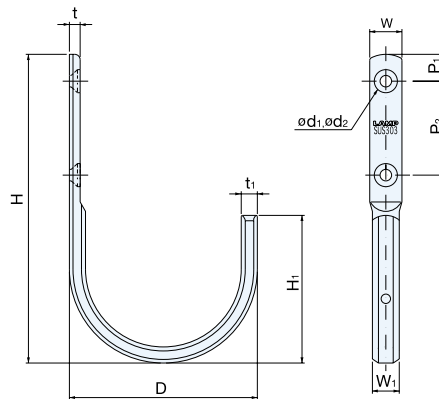
Material	Finish
303 Stainless Steel	Mirror

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
JFT-180	10 (22 lbs)	180	5	30	4.5×25
JFT-260	15 (33 lbs)	380	5	30	5.1×38

LARGE UTILITY HOOK



CUJ-45, 70



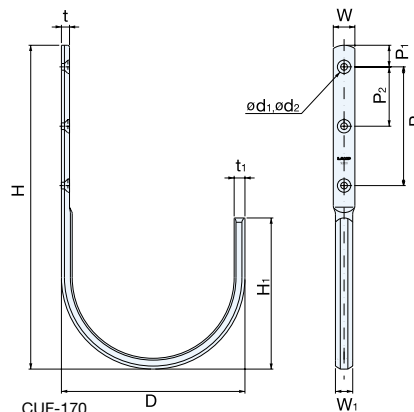
Material	Finish
303 Stainless Steel	Mirror Satin combination

Item No.	D	W	W ₁	H	H ₁	P ₁	P ₂	t	t ₁	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
CUJ-45	46 (1-13/16")	12	10	75 (2-61/64")	36	8.5	20	4.5	6	3.8	7.2	19 (42 lbs)	48	20	120	3.5×20
CUJ-70	72 (2-53/64")	12	10	112 (4-13/32")	56	10	35	4.5	6	4.3	8.6	14 (30 lbs)	82	10	60	4×20

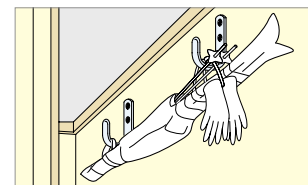
LARGE UTILITY HOOK



CU-F-110, 170



Material	Finish
303 Stainless Steel	Mirror Satin combination

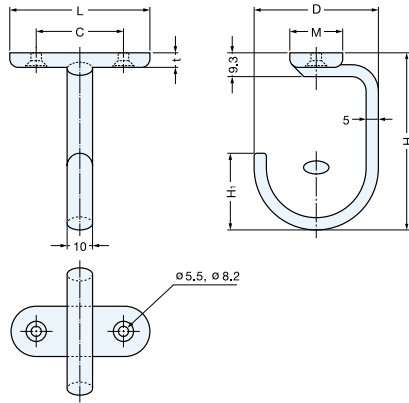


Item No.	D	W	W ₁	H	H ₁	P ₁	P ₂	P ₃	t	t ₁	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
CU-F-110	112	20	16	198	91	17	-	70	7.5	10	5.2	10.5	32 (70 lbs)	357	5	30	5×30
CU-F-170	173	20	16	300	138.5	20	55	110	7.5	10	6.2	12.5	15 (33 lbs)	552	5	20	6×30

HOOK



DS-H-50, 60



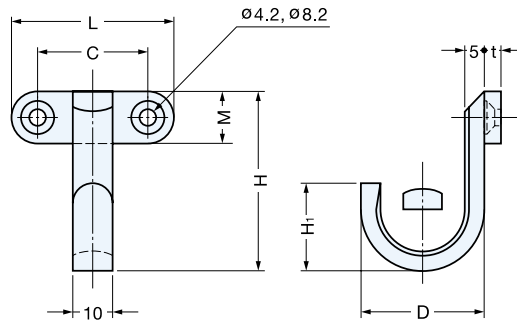
Material	Finish
303 Stainless Steel	Mirror

Item No.	D	C	H	H ₁	L	M	t	Load Capacity (kg)	Weight (g)	Box (pcs)
DS-H-50	50	35	70 (2-3/4")	30	55 (2-5/32")	20	6	10 (22 lbs)	100	5
DS-H-60	60	35	100 (3-15/16")	40	55 (2-5/32")	20	6	10 (22 lbs)	105	5

HOOK



KB-H-35, 40



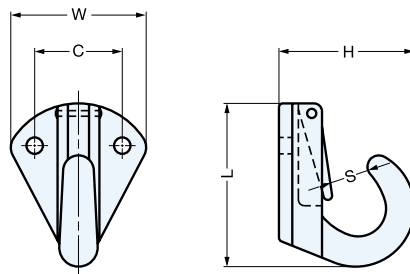
Material	Finish
303 Stainless Steel	Mirror

Item No.	D	C	H	H ₁	L	M	t	Load Capacity (kg)	Weight (g)	Box (pcs)
KB-H-35	35	27	45 (1-25/32")	22	40 (1-37/64")	13	4	16 (35 lbs)	50	10
KB-H-40	40	27	50 (1-31/32")	25	40 (1-37/64")	13	4	16 (35 lbs)	55	10

LATCH HOOK



WH-1, 2



- Ideal for vibration or shock applications.

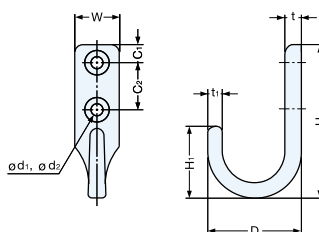
Material	Finish
304 Stainless Steel	Satin

Item No.	L	H	W	C	S	Weight (g)	Box (pcs)
WH-1	37 (1-29/64")	25 (63/64")	34 (1-11/32")	22	5	40	20
WH-2	41 (1-39/64")	34 (1-11/32")	34 (1-11/32")	22	11	55	20

HOOK



EL-25, 30



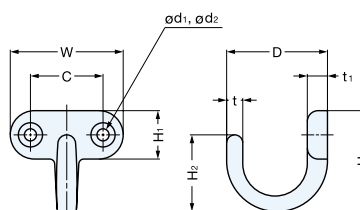
Material	Finish
304 Stainless Steel	Mirror

Item No.	D	H	H ₁	t	t ₁	W	C ₁	C ₂	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
EL-25	26 (1-1/32")	40 (1-37/64")	19	5.5	4	12	5	12	3	6	20 (44 lbs)	19	30	300	2.7×16
EL-30	32 (1-17/64")	54.5 (2-9/64")	25	6	5	15	6	16	4	8	20 (44 lbs)	32	20	200	3.8×20

HOOK



EP-25, 40



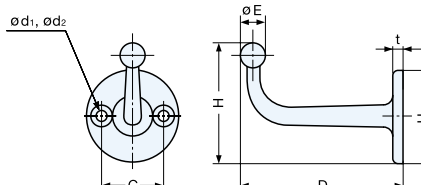
Material	Finish
304 Stainless Steel	Mirror

Item No.	D	W	H	H ₁	H ₂	t	t ₁	C	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
EP-25	25 (63/64")	28	25 (63/64")	12	19	4	5	18	3	6	20 (44 lbs)	16	30	300	2.7×16
EP-40	32 (1-17/64")	36	33 (1-19/64")	16	25	5	6	22.5	4	8	20 (44 lbs)	31	20	200	3.8×20

HOOK



FC-50, 65



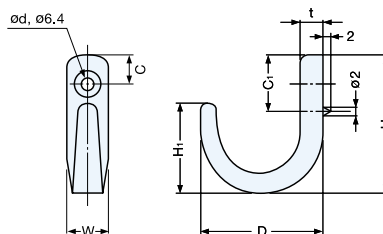
Material	Finish
304 Stainless Steel	Mirror

Item No.	D	H	H ₁	t	C	d ₁	d ₂	E	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
FC-50	47 (1-27/32")	37 (1-29/64")	28	3	18.5	3.3	6.5	6.5	10 (22 lbs)	25	40	480	3.1×16
FC-65	65 (2-9/16")	44 (1-47/64")	35	4	22.5	4.2	8	8	12 (26 lbs)	54.5	20	240	3.8×20

HOOK



TA-3S, L



Material	Finish
304 Stainless Steel	Mirror

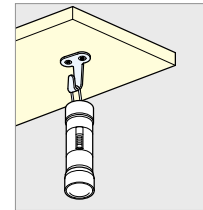
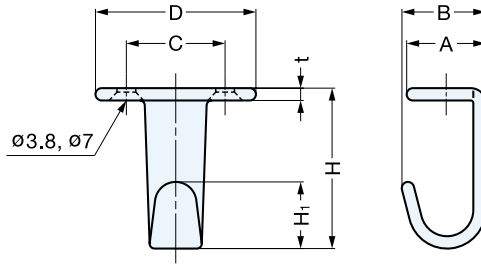
Item No.	D	W	H	H ₁	C	C ₁	t	d	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
TA-3S	22 (7/8")	9	29 (1-9/64")	16	7	14	4	3.2	16 (35 lbs)	10	30	600	3.1×16
TA-3L	30 (1-3/16")	10	34 (1-11/32")	22	7	14	5.5	3.2	16 (35 lbs)	19	20	400	3.1×16

HOOK



HJ-30, 50

Material	Finish
304 Stainless Steel	Satin



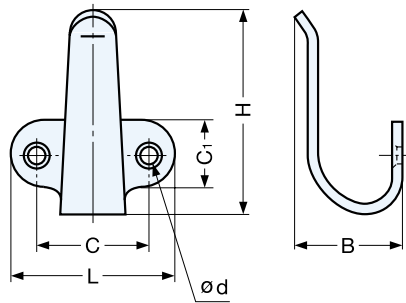
Installation

Item No.	D	C	H	H ₁	A	B	t	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
HJ-30	32.5	20	32.5 (1-9/32")	13.5	16	17 (43/64")	2.5	8 (17.6 lbs)	15	30	600
HJ-50	43.5	30	47 (1-27/32")	22	21	22 (7/8")	2.5	10 (22 lbs)	30	40	800

HOOK

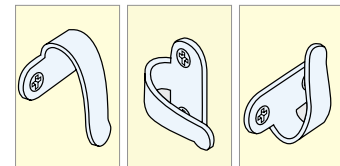


2H



• Unique design, also can be used as a pull.

Material	Finish
304 Stainless Steel	Satin



Installation

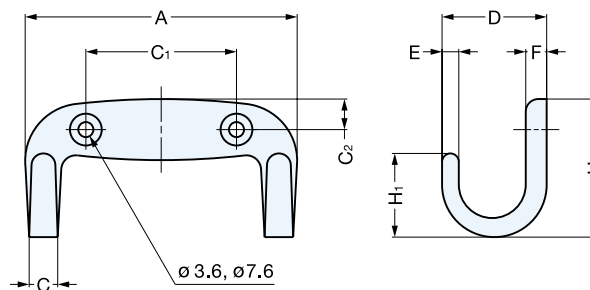
Item No.	L	C	C ₁	H	B	d	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
2H-20	28 (1-3/32")	18	10	30 (1-3/16")	18	4	10 (22 lbs)	13	120	1200	3.1×16
2H-30	32.5 (1-9/32")	20	13	39 (1-17/32")	18	4	10 (22 lbs)	18	100	1000	3.5×16
2H-40	35 (1-3/8")	21.5	16	44 (1-47/64")	23	4	6 (13.2 lbs)	23	80	800	3.5×16
2H-50	43 (1-11/16")	30	18	56 (2-13/64")	25	4	6 (13.2 lbs)	34	50	500	3.5×16

HOOK



EW-65E, 80E

Material	Finish
304 Stainless Steel	Mirror

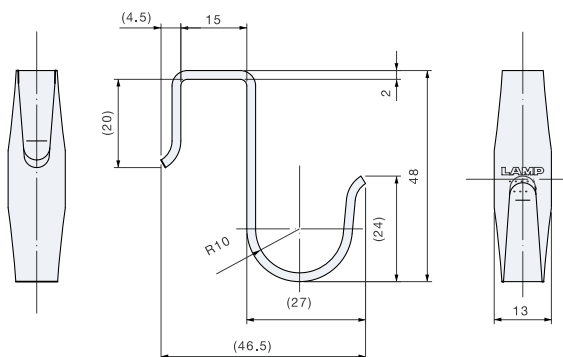


Item No.	A	C ₁	C	D	E	F	C ₂	H	H ₁	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
EW-65E	65 (2-9/16")	36	6.5	25	4	5	7.3	33 (1-19/64")	20	20 (44 lbs)	52	10	100	3.1×16
EW-80E	80 (3-5/32")	44	8	32	5	6	9	42 (1-21/32")	25	20 (44 lbs)	93	10	100	3.8×20

HOOK

STAINLESS
304
STEEL

RN-50



- Designed to be used on partition boards.

Material	Finish
304 Stainless Steel	Satin

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
RN-50	9.4 (20 lbs)	17	40	400

DOUBLE HOOK

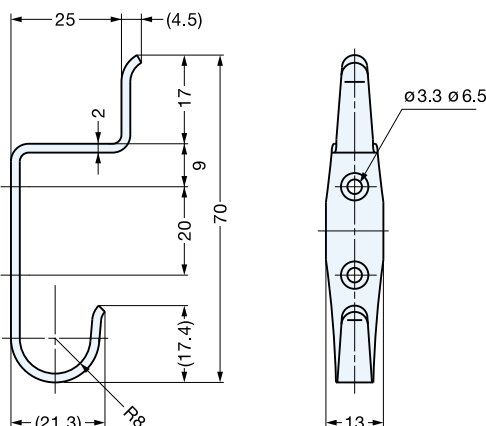
3x16
STAINLESS

STAINLESS
304
STEEL

RI-074



PAT



- Unique two-in-one hook.

Material	Finish
304 Stainless Steel	Satin

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
RI-074	5 (11 lbs)	16	40	400

DOUBLE HOOK

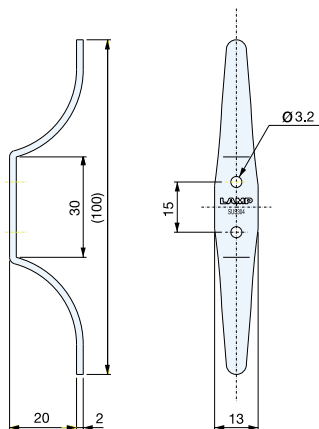
3x16
STAINLESS

STAINLESS
304
STEEL

RB-102

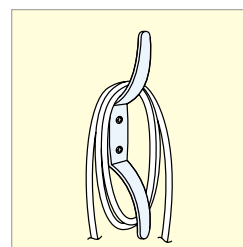


PAT



- Can be used as a tie up cleat.

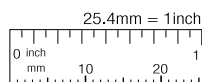
Material	Finish
304 Stainless Steel	Satin



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
RB-102	16	40	400

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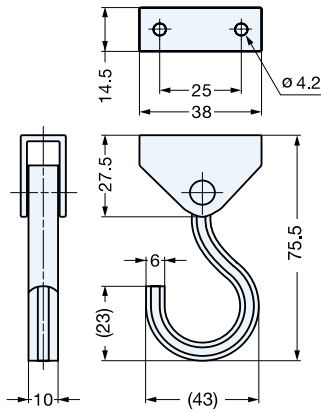
SWING HOOK



JS-F40



PAT



- Vertical swivel allows under mount application.

Part Name	Material	Finish
Hook	303 Stainless Steel	Mirror
Bracket	304 Stainless Steel	Satin Combination

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
JS-F40	50 (110 lbs)	70	20	120

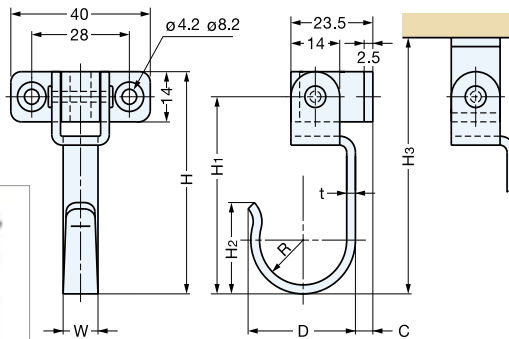
SWING HOOK



UC-048, 055



PAT



- Vertical swivel allows under mount application.

Material	Finish
304 Stainless Steel	Polished

Item No.	W	D	H	H ₁	H ₂	H ₃	C	R	t	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
UC-048	9 (23/64")	(24.9)	55	48	(21.4)	64.5	6.5	10	2	5.6 (12 lbs)	37	40	400
UC-055	10 (25/64")	(30.8)	62	55	(25.5)	71.5	5	12.5	2.5	6.7 (14 lbs)	45	25	250

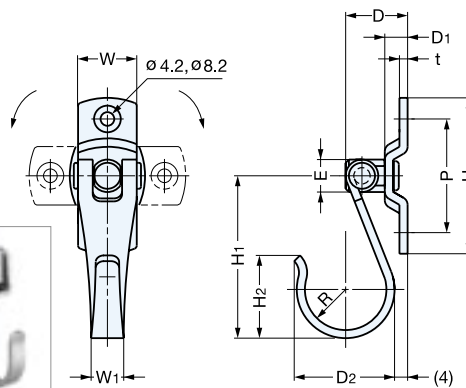
SWING HOOK



UJ-040, 050



PAT



- Rotates 360° and swivels 180°.
- Can be mounted in various directions.

Material	Finish
304 Stainless Steel	Polished

Item No.	W	W ₁	D	D ₁	D ₂	H	H ₁	H ₂	P	E	R	t	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
UJ-040	16	(9)	16.5	5.5	(24.9)	42	40	(21.4)	30	ø9	10	2	6.7 (14 lbs)	27	50	500
UJ-050	18	(10)	19	7	(30.8)	48	50	(25.5)	35	ø10	12.5	2.5	8.9 (19 lbs)	45	30	300

SWING HOOK (W/FRICTION)



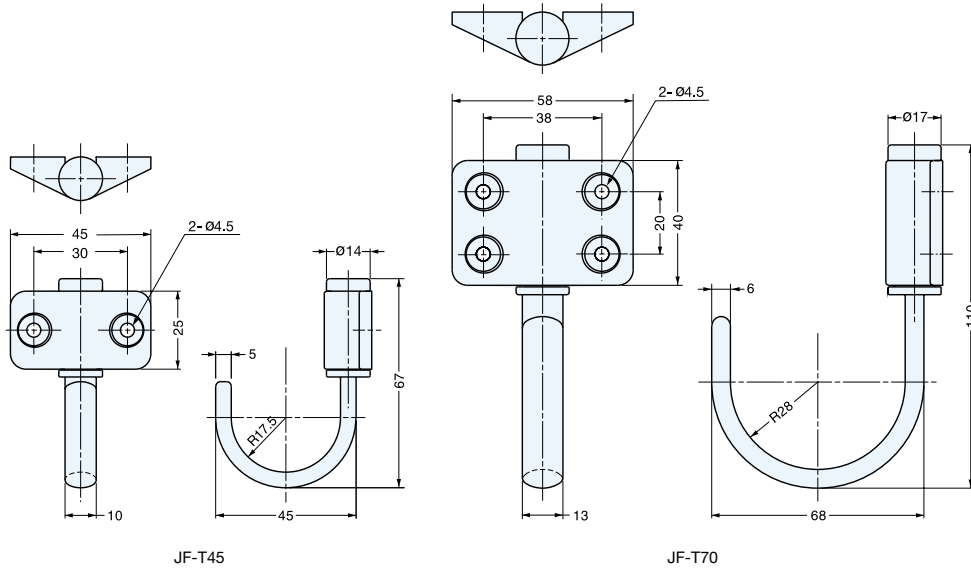
JF-T45, T70



PAT.P

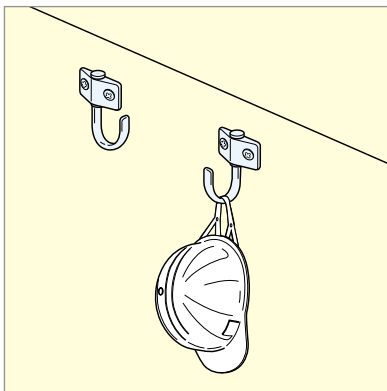
- Swivels 180 degrees.
- Hook has constant torque when swiveling.
- Ideal for vibration or shock applications.

Material	Finish
304 Stainless Steel	Mirror

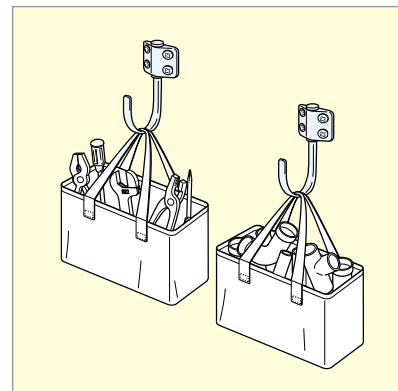
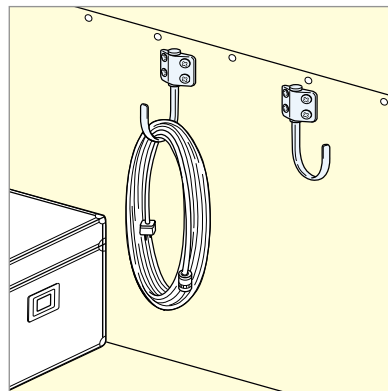


JF-T45

JF-T70



Installation

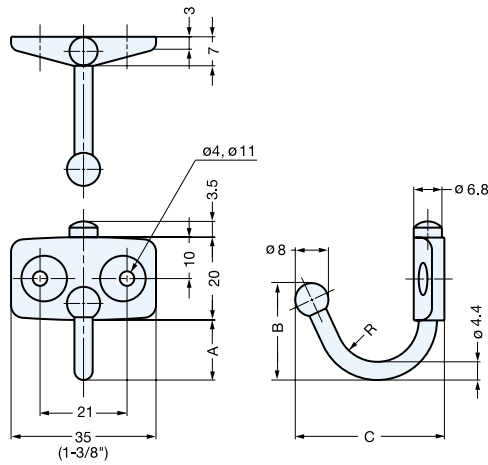


Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)
JF-T45	10 (22 lbs)	90	10
JF-T70	10 (22 lbs)	225	10

SWING HOOK (W/FRICTION)

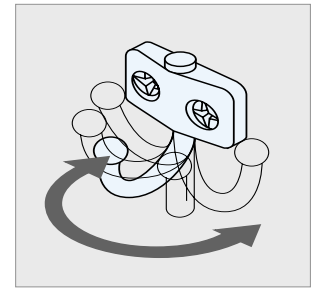


TK-30F, 45F



- Swivels 180 degrees.
- Hook has constant torque when swiveling.
- Ideal for vibration or shock applications.

Material	Finish
304 Stainless Steel	Polished



Installation

Item No.	A	B	C	R	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TK-30F	14.5	23.4	36	10	8 (17 lbs)	17	100	1000
TK-45F	19.4	28.4	44.3	15	12 (26 lbs)	20	100	1000

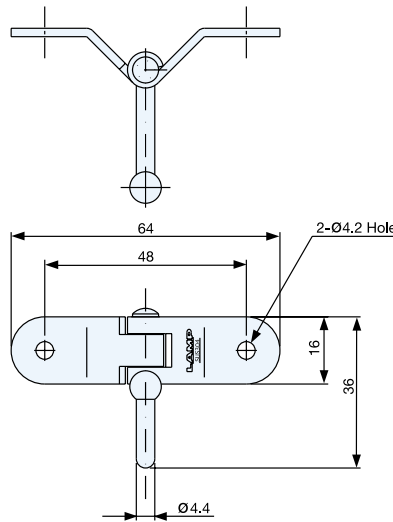
BUTTERFLY HOOK



TZ-360

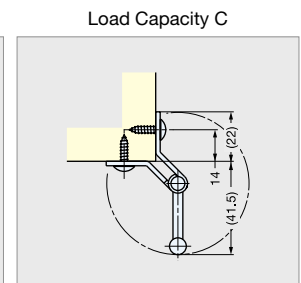
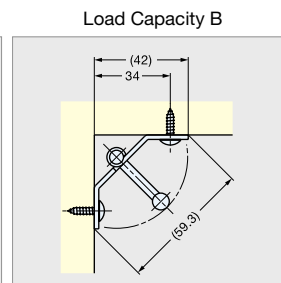
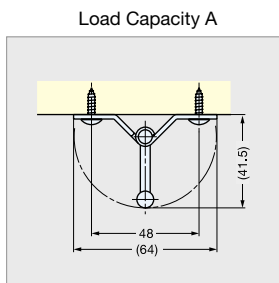
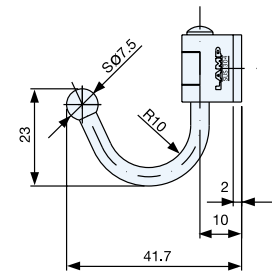


PAT



- Flush or corner mount.
- Applicable angle: 90°~ 270°

Material	Finish
304 Stainless Steel	Polished



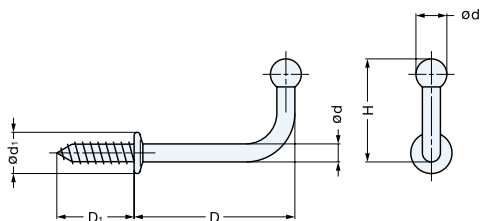
Installation

Item No.	Load Capacity A (kg)	Load Capacity B (kg)	Load Capacity C (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TZ-360	6 (13 lbs)	5.6 (12 lbs)	3 (6 lbs)	27	50	500

WIRE HOOK

STAINLESS
304
STEEL

TY



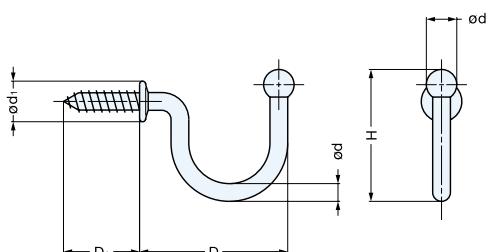
Material	Finish
304 Stainless Steel	Polished

Item No.	D	D ₁	H	d	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TY-20	21.8 (55/64")	11	14 (35/64")	2.7	6.5	4.5	3 (6.6 lbs)	1.5	200	7200
TY-25	27 (1-1/16")	13	17 (43/64")	3	7	5	3 (6.6 lbs)	3	100	3600
TY-30	31.2 (1-7/32")	15	20 (25/32")	3.5	8	6	7 (15.4 lbs)	5	100	1800
TY-35	36.5 (1-7/16")	20	23 (29/32")	4	9	6.5	7 (15.4 lbs)	7	50	1800
TY-40	43.5 (1-23/32")	20	27 (1-1/16")	4.5	10	7.5	8 (17.6 lbs)	11	50	900

WIRE HOOK

STAINLESS
304
STEEL

TF-20, 30, 35



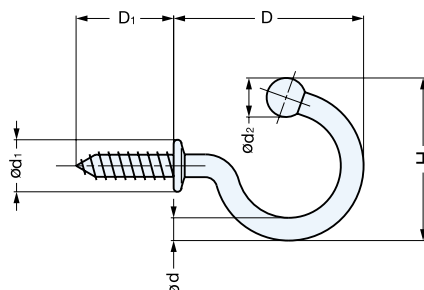
Material	Finish
304 Stainless Steel	Polished

Item No.	D	D ₁	H	d	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TF-20	20.8 (13/16")	11	20 (25/32")	2.7	6.5	4.5	3 (6.6 lbs)	3	200	7200
TF-30	29.2 (1-5/32")	15	26 (1-1/32")	3.5	8	6	7 (15.4 lbs)	5.5	100	1800
TF-35	40.5 (1-19/32")	20	35 (1-3/8")	4.5	10	7.5	12 (26 lbs)	13.5	50	900

WIRE HOOK

STAINLESS
304
STEEL

TL



Material	Finish
304 Stainless Steel	Polished

Item No.	D	D ₁	H	d	d ₁	d ₂	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TL-15	16.8 (21/32")	11	15 (19/32")	2.7	6.5	4.5	5 (11 lbs)	1.9	200	7200
TL-20	22.8 (29/32")	11	20 (25/32")	2.7	6.5	4.5	5 (11 lbs)	2.1	100	3600
TL-30	29.2 (1-5/32")	15	25 (63/64")	3.5	8	6	5 (11 lbs)	6	50	900
TL-40	40.5 (1-19/32")	20	34 (1-11/32")	4.5	10	7.5	12 (26 lbs)	13.5	50	900

PLASTIC HOOK

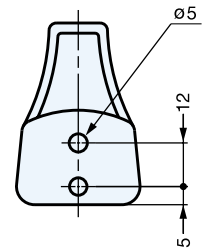
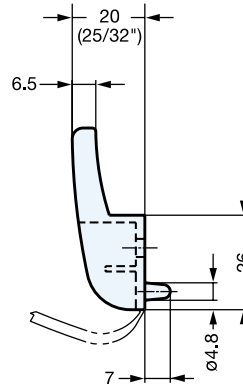
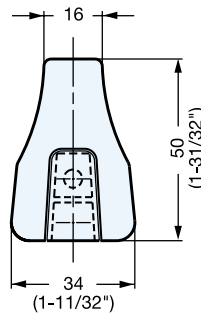
WB-901145

Available in U.S.A. only

• Hook with lid screw cover.



Material	Color
Polypropylene	Black



Item No.	Weight (g)	Box (pcs)
WB-901145	7	200

PLASTIC HOOK

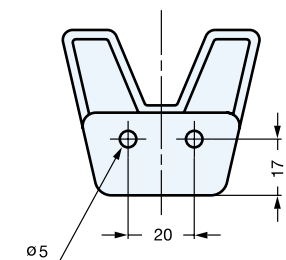
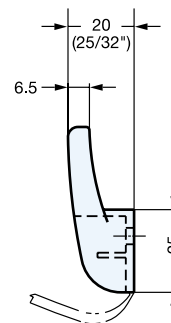
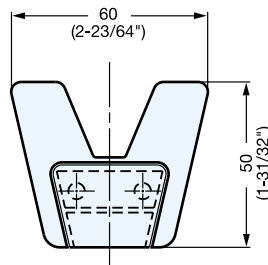
WB-901146

Available in U.S.A. only

• Hook with lid screw cover.



Material	Color
Polypropylene	Black



Item No.	Weight (g)	Box (pcs)
WB-901146	10	200

RECESSED HOOK



NF-60

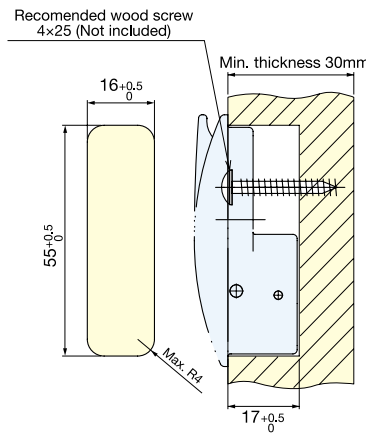
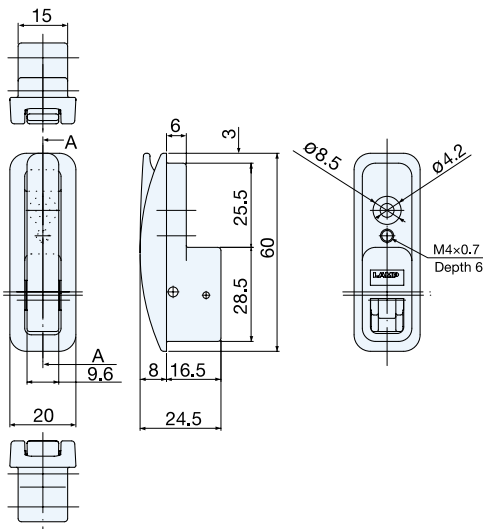


PAT.P

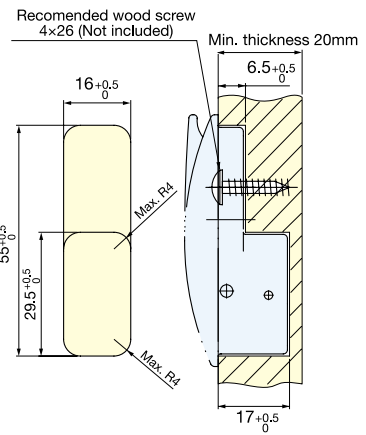


- Hook spring loaded to retracted position.
- Ideal for vibration or shock applications.
- Cabinet thickness:
Sheet metal: 0.8 ~ 1.6 mm (1/32" ~ 1/16")
Wood: Minimum 20 mm (25/32")
Load Capacity: 20 kg (44lbs)

Material	Finish
Zinc Alloy	Dark Grey Powder Coating



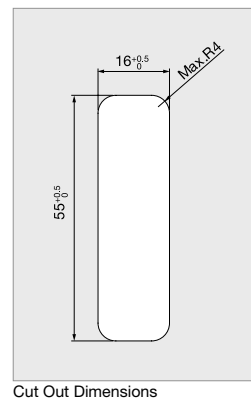
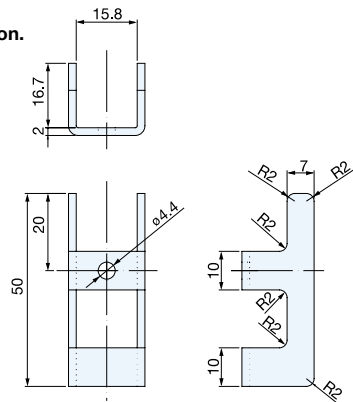
Bore Dimensions
(For thickness over 30mm)



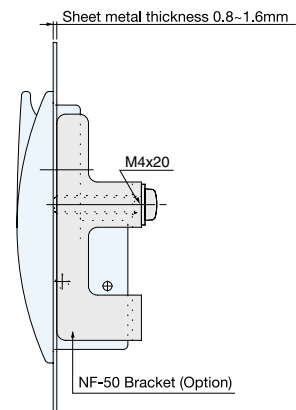
Bore Dimensions
(For thickness over 20~29mm)

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
NF-60	20(44 lbs)	31	10	200

Bracket for sheet metal application.



Cut Out Dimensions



Supplied with M4x20 Stainless steel screw.

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
NF-50	22	20	400	Steel	White Zinc Chromate

FOLDING BRACKET

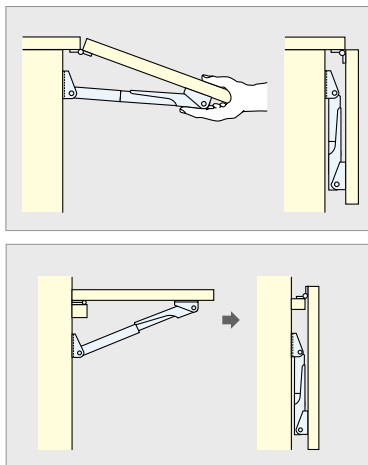
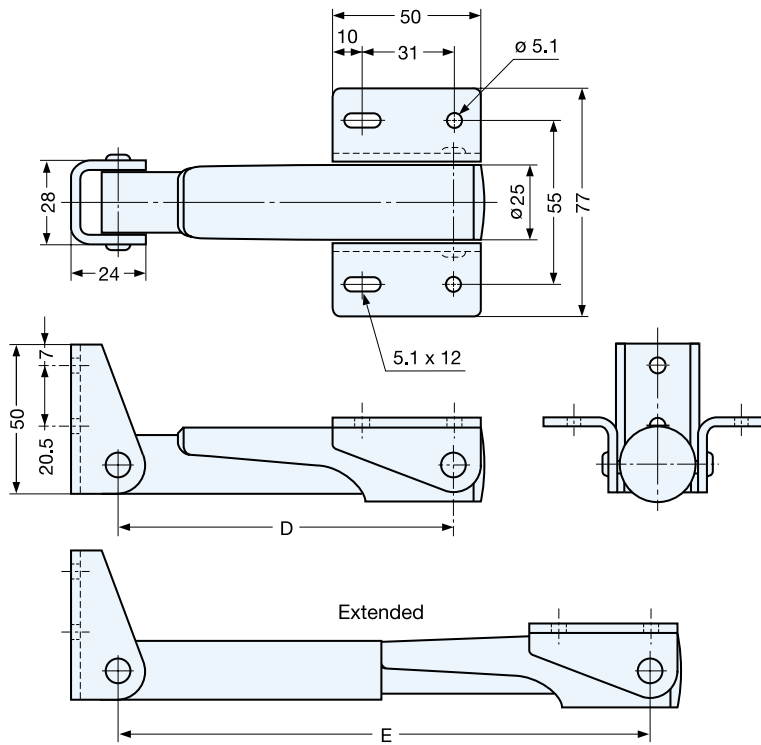


388

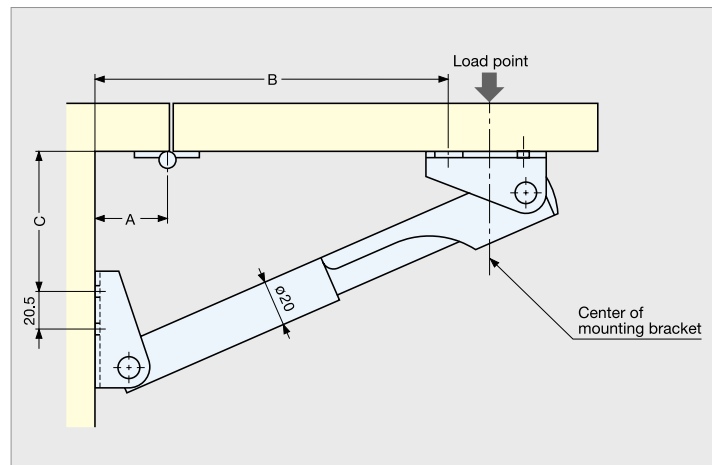


- Automatically locks when flap is in open position.
- Has release lever for un-locking.

Material	Finish
Aluminum	Alumite

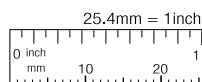


Installation



Item No.	A	B	C	D	E	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
38820-25	25 ~ 30	161	14	114	180 (7-3/32")	35 (77 lbs)	149	5	50
38830-25	25 ~ 39	252	45	168	275.9 (10-55/64")	55 (121 lbs)	187	5	50
38845-25	25 ~ 50	402	87	258.5	430.8 (16-31/32")	60 (132 lbs)	266	5	30
38860-25	25 ~ 40	549	137	368.5	585.8 (23-1/16")	80 (176 lbs)	342	5	30

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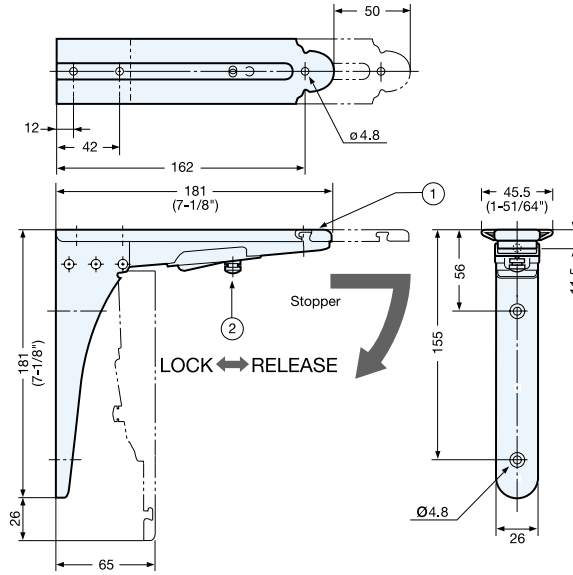
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FOLDING BRACKET (W/STOPPER)

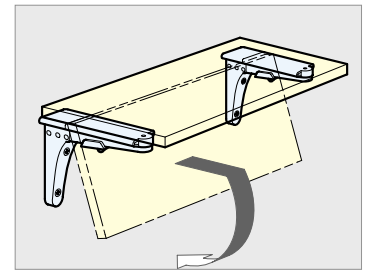


BOS-180

- Folding bracket with stopper.



NO.	Part Name	Material	Finish/Color
①	Body	304 Stainless Steel	Satin
②	Knob	Brass	Nickel
	Cap	NBR	Black



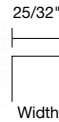
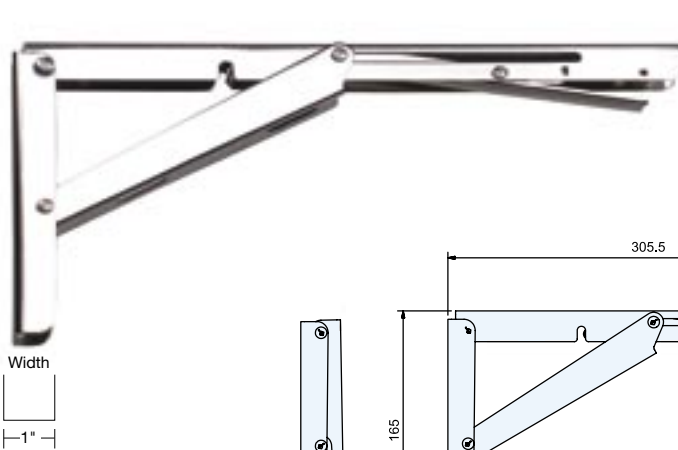
Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
BOS-180	40 (88 lbs)	476	1	20	4x20, 4.5x25, 4.5x50

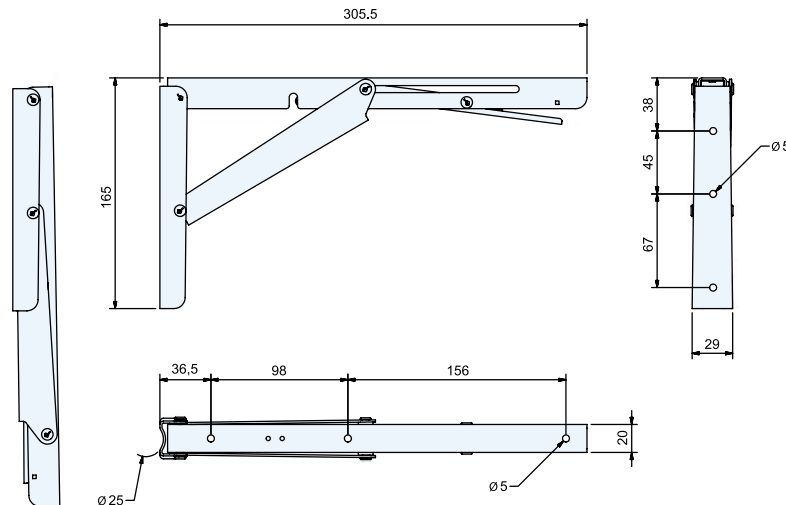
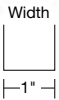
FOLDING BRACKET



EB-303/EP

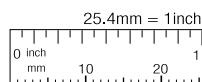


Material	Finish
304 Stainless Steel	Electro Polished



Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)
EB-303 / EP	150 (330 lbs)	515	50

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SPRING LOADED BRACKET

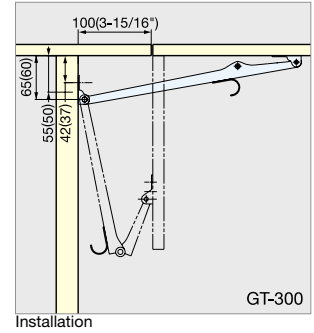
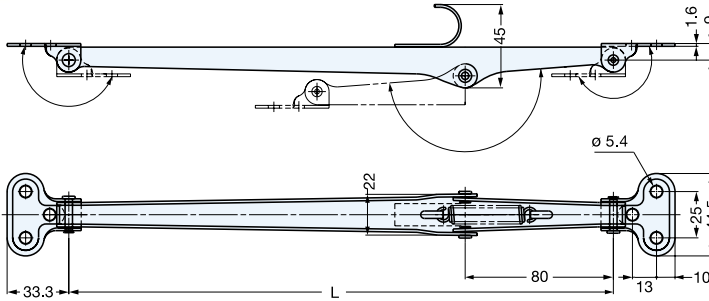


GT, GTS



- Spring loaded for lift assist.

Item Name	Material	Finish
GT	Steel	Clear Zinc Chrome
GTS	304 Stainless Steel	-



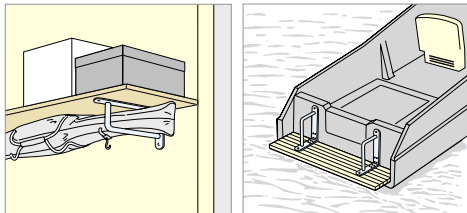
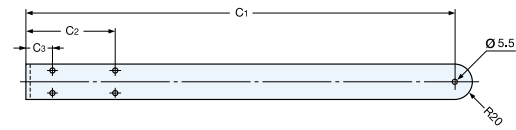
Item No.	L	Load Capacity (kg)		Weight (g)	Box (pcs)	Carton (pcs)
		Single use	Pair use			
GT- 250	250 (9-27/32")	3 (6.6 lbs)	6 (13.2 lbs)	170	12	96
GT- 300	294 (11-37/64")	3 (6.6 lbs)	6 (13.2 lbs)	190	12	96
GTS-300	294 (11-37/64")	3 (6.6 lbs)	6 (13.2 lbs)	190	12	96

BRACKET

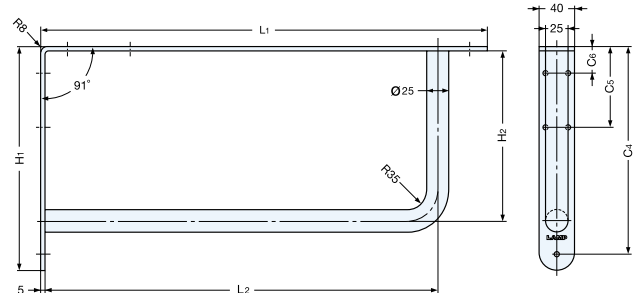


BY-300, 400, 500

Material	Finish
304 Stainless Steel	Mirror



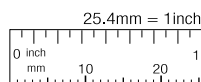
Installation



Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
BY-300	50 (110 lbs)	1100	2	6
BY-400	50 (110 lbs)	1400	2	6
BY-500	50 (110 lbs)	1800	2	6

Item No.	L ₁	L ₂	H ₁	H ₂	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	Holes	Screw
BY-300	300 (11-13/16")	240	150 (5-29/32")	90	280	100	30	130	-	30	8	5x25, 5x16
BY-400	400 (15-3/4")	340	200 (7-7/8")	140	380	120	30	180	90	30	10	5x25, 5x16
BY-500	500 (19-11/16")	440	250 (9-27/32")	190	480	160	30	230	90	30	10	5x25, 5x16

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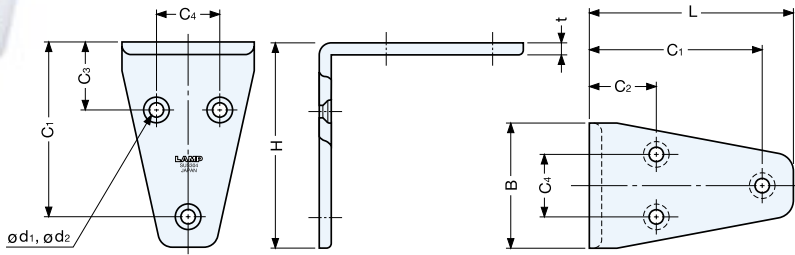
ANGLE BRACKET



SV-40, 55, 80

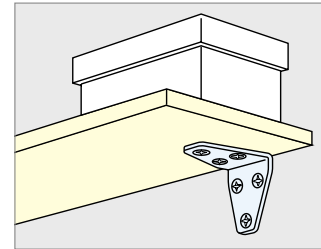


SV-55S, 80S



- Stainless steel angle bracket for application where corrosion is an issue.

Material	Finish
304 Stainless Steel	Mirror (M), Satin (S)



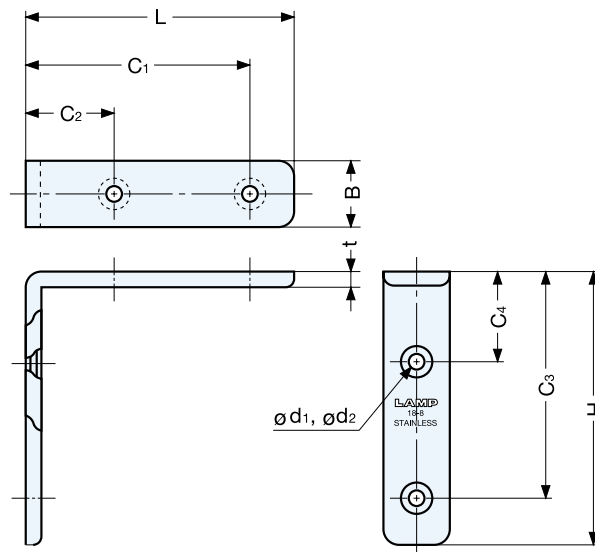
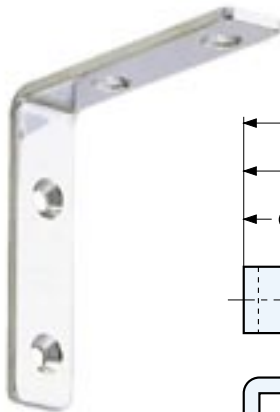
Installation

Item No.	L	H	C ₁	C ₂	C ₃	C ₄	B	t	d ₁	d ₂	Holes	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
SV-40/M SV-40/S	40 (1-39/64")	40 (1-39/64")	34	17	17	-	25 (63/64")	3	3.3	6.5	4	8 (18 lbs)	29	40	640	3.1×20
SV-55/M SV-55/S	55 (2-13/64")	55 (2-13/64")	47	18	18	17	36.5 (1-7/16")	3	3.8	7.5	6	8 (18 lbs)	58	20	320	3.1×20
SV-80/M SV-80/S	80 (3-5/32")	80 (3-5/32")	71	24	24	27	52 (2-3/64")	4	4.3	8.5	6	14 (31 lbs)	162	10	120	3.8×20

ANGLE BRACKET

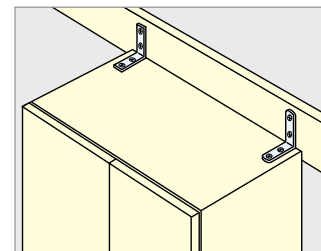


SU-30, 45, 60



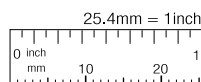
- Stainless steel angle bracket for application where corrosion is an issue.

Material	Finish
304 Stainless Steel	Mirror (M), Satin (S)



Installation

Item No.	L	H	C ₁	C ₂	C ₃	C ₄	B	t	d ₁	d ₂	Holes	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
SU-30/M SU-30/S	30 (1-7/32")	30 (1-7/32")	24	11	24	11	12 (15/32")	2.5	3.5	6.5	4	6 (13 lbs)	11	60	960	3.1×20
SU-45/M SU-45/S	45 (1-13/16")	45 (1-13/16")	37	17	37	17	13 (33/64")	3	3.5	6.5	4	5 (11 lbs)	23	50	800	3.1×20
SU-60/M SU-60/S	60 (2-13/32")	60 (2-13/32")	50	20	50	20	15 (19/32")	3	4	7.5	4	4 (9 lbs)	36	40	640	3.5×20



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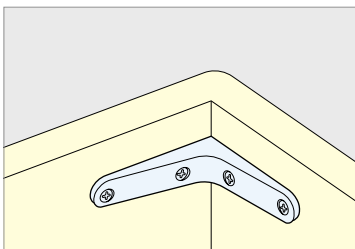
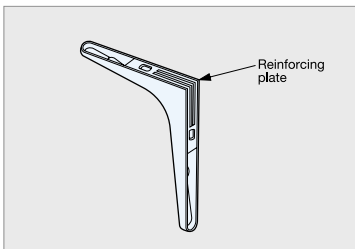
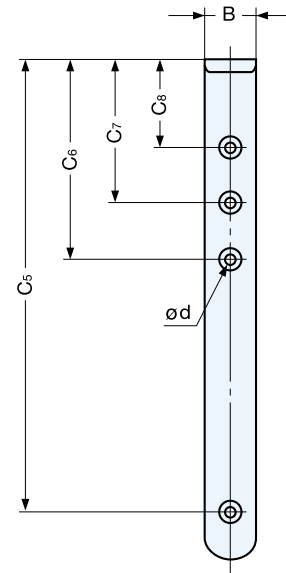
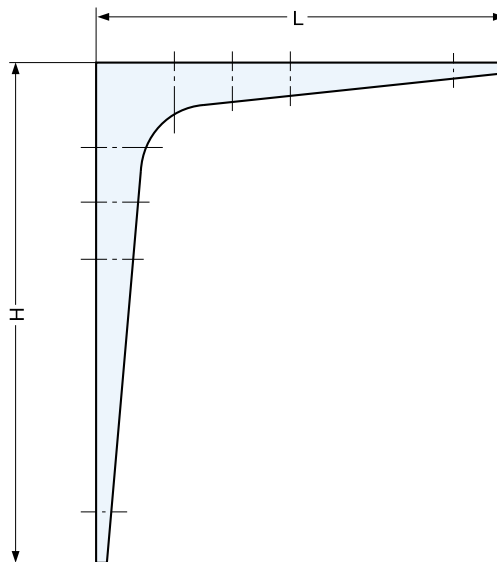
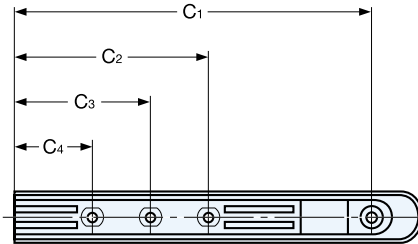
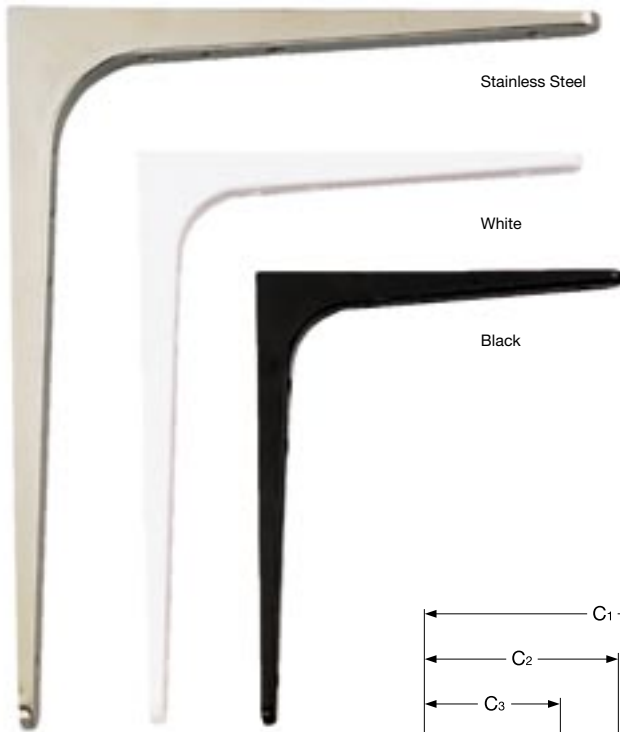
BRACKET



BT, BTK, BTW

- Stainless steel (satin finish) or steel (white or black) available.

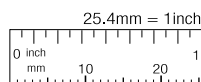
Material (BT)	Finish
304 Stainless Steel	Satin
Material (BTK/BTW)	Finish / Color
Steel	Black-BTK, White-BTW



Installation

Item No.		L	H	B	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	C ₇	C ₈	d	Holes	Load Capacity (kg)	Weight (g)	Box (pcs)
Stainless	Steel																
BT-85	BTK-85 BTW-85	69 (2-23/32")	86 (3-25/64")	15 (19/32")	58	27	-	-	75	26	-	-	4	4	15 (33 lbs)	40	20
BT-120	BTK-120 BTW-120	100 (3-15/16")	120 (4-23/32")	15 (19/32")	85	43	-	-	106	42	-	-	4	4	20 (44 lbs)	60	20
BT-180	BTK-180 BTW-180	148.5 (5-27/32")	180.5 (7-7/64")	15 (19/32")	131	71	50	-	162.5	72.5	51.5	-	4	6	25 (55 lbs)	110	20
BT-240	BTK-240 BTW-240	199 (7-27/32")	240 (9-29/64")	18 (23/32")	176	91	59	-	217	92	60	-	4	6	28 (61 lbs)	200	10
BT-300	BTK-300 BTW-300	238.5 (9-25/64")	301 (11-27/32")	20 (25/32")	206.5	92.5	60.5	-	269	95	63	-	4	6	35 (77 lbs)	310	10
BT-380	BTK-380 BTW-380	318 (12-33/64")	378 (14-7/8")	23 (29/32")	285	145	110	75	345	145	110	75	5	8	65 (143 lbs)	470	10
BT-480	BTK-480 BTW-480	400 (15-3/4")	480 (18-29/32")	30 (1-3/16")	360	180	135	90	440	180	135	90	5.5	8	82.5 (181 lbs)	1100	6

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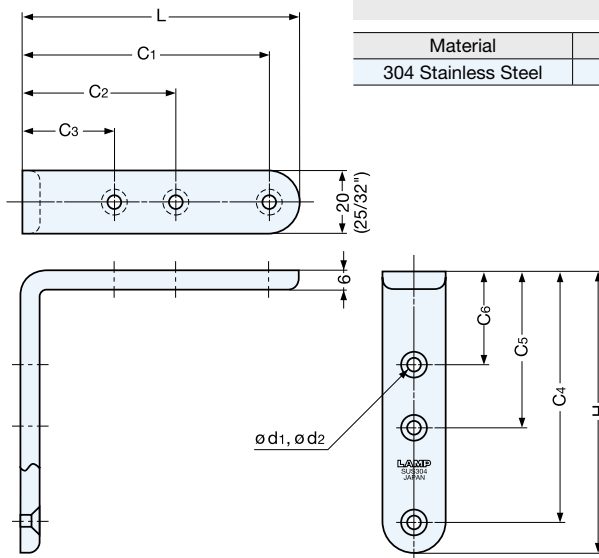
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ANGLE BRACKET



SU-A

- Stainless steel angle bracket for application where corrosion is an issue.



Material	Finish
304 Stainless Steel	Mirror (M)

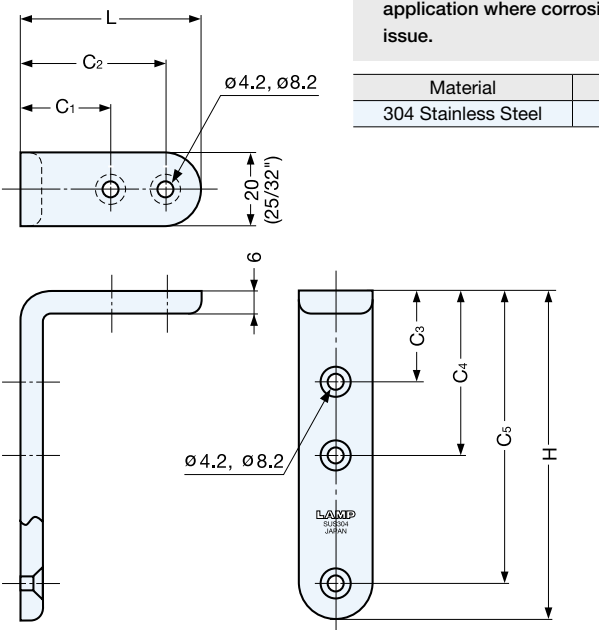
Item No.	L	H	C ₁	C ₂	C ₃	C ₄	C ₅	C ₆	d ₁	d ₂	Holes	Load Capacity (kg)/pcs	Weight (g)	Box (pcs)	Carton (pcs)
SU-A 70/M	70 (2-3/4")	70 (2-3/4")	-	60	30	-	60	30	4.2	8.2	4	24 (52 lbs)	107	10	100
SU-A 90/M	90 (3-35/64")	90 (3-35/64")	80	50	30	80	50	30	4.2	8.2	6	17 (37 lbs)	140	10	100
SU-A 120/M	120 (4-23/32")	120 (4-23/32")	110	60	30	110	60	30	4.2	8.2	6	13 (28 lbs)	194	8	80
SU-A 150/M	150 (5-29/32")	150 (5-29/32")	140	60	30	140	60	30	4.2	8.2	6	10 (22 lbs)	248	6	60

ANGLE BRACKET



SU-B50/M, 65/M, 80/M

- Stainless steel angle bracket for application where corrosion is an issue.



Material	Finish
304 Stainless Steel	Mirror (M)

Item No.	L	H	C ₁	C ₂	C ₃	C ₄	C ₅	Holes	Load Capacity (kg)/pcs	Weight (g)	Box (pcs)	Carton (pcs)
SU-B50/M	50 (1-31/32")	90 (3-35/64")	25	40	25	45	80	5	13 (28 lbs)	106	10	100
SU-B65/M	65 (2-9/16")	120 (4-23/32")	30	55	30	60	110	5	13 (28 lbs)	145	10	100
SU-B80/M	80 (3-5/32")	150 (5-29/32")	30	70	30	60	140	5	10 (22 lbs)	186	8	80



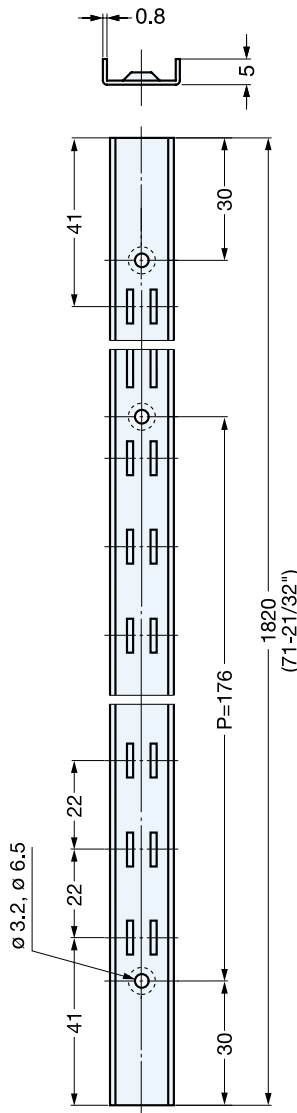
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SHELF STANDARD

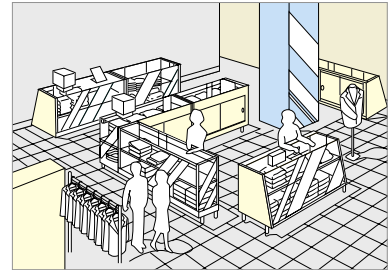
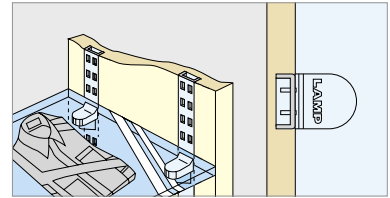
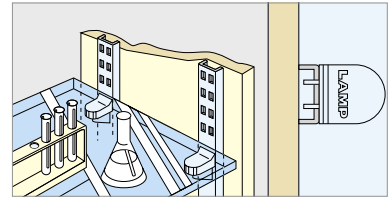


SPH-1820



- Easy height adjustment for changing shelf level.
- Shelf support options: SPH-5, SPH-15, SPH-20

Material	Finish
304 Stainless Steel	Satin



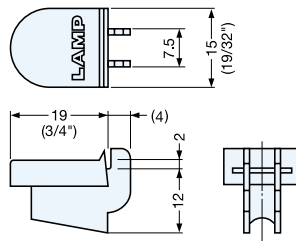
Installation

Item No.	Weight (g)	Carton (pcs)
SPH-1820	230	80

SHELF SUPPORT

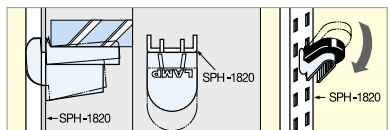


SPH-20



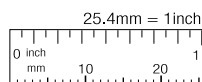
- Shelf support for SPH-1820.
- Friction shelf retention.

Material	Finish/Color
304 Stainless Steel	Satin
Synthetic Rubber Pad	Black



Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPH-20	45 (99 lbs) / 4pcs	4.5	300	3000



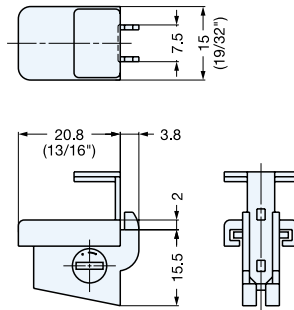
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SHELF SUPPORT (W/HOLDER)

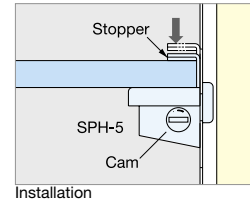
STAINLESS
304
STEEL

SPH-5



- Shelf support for SPH-1820.
- Friction shelf retention.
- Glass thickness:
4 ~ 8mm (5/32" ~ 5/16") thickness.

Material	Finish/Color
304 Stainless Steel	Satin
Synthetic Rubber pad	Black

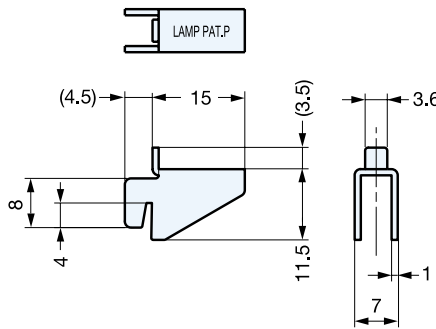


Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPH-5	45 (99 lbs) / 4pcs	8	100	1000

SHELF SUPPORT

STAINLESS
304
STEEL

SPH-15



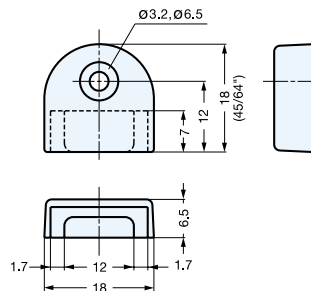
- Shelf support for SPH-1820.

Material	Finish
304 Stainless Steel	Satin

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPH-15	40 (88 lbs) / 4pcs	2.6	400	4000

END CAP

SP-18E



- End cover cap for SPH, SM, SP shelf standards.

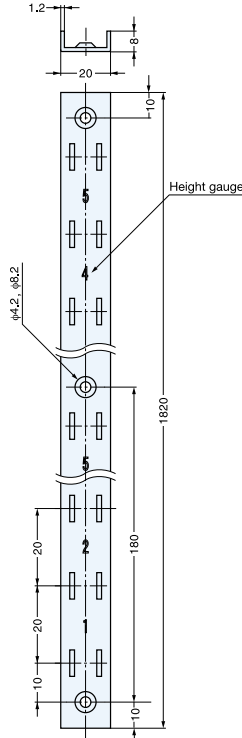
Material	Color
ABS	Black (BLK), White (WHT)

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
SP-18E / BLK	1.3	500	5000
SP-18E / WHT	1.3	500	5000

HEAVY DUTY SHELF STANDARD

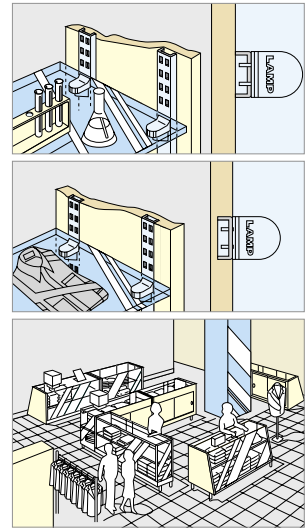


SPHL-1820



- Heavy duty shelf standard.
- Easy height adjustment for changing shelf level.
- Shelf support options: SPHL-25
SPHL-30

Material	Finish
304 Stainless Steel	Satin



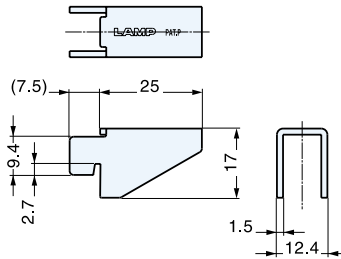
Installation

Item No.	Weight (g)	Carton (pcs)
SPHL-1820	500	30

SHELF SUPPORT



SPHL-25



- Shelf support for SPHL-1820.

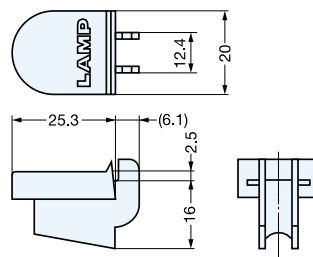
Material	Finish
304 Stainless Steel	Satin

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPHL-25	80 (176lbs) / 4pcs	11	200	1200

HEAVY DUTY SHELF SUPPORT

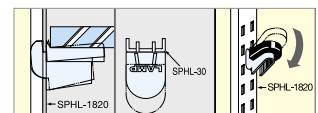


SPHL-30



- Shelf support for SPHL-1820.
- Rubber pad prevents glass shelf from sliding.
- Friction shelf retention.

Material	Finish/Color
304 Stainless Steel	Steel
Elastomer	Black



Installation

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPHL-30	120 (264lbs) / 4pcs	12.3	100	1000



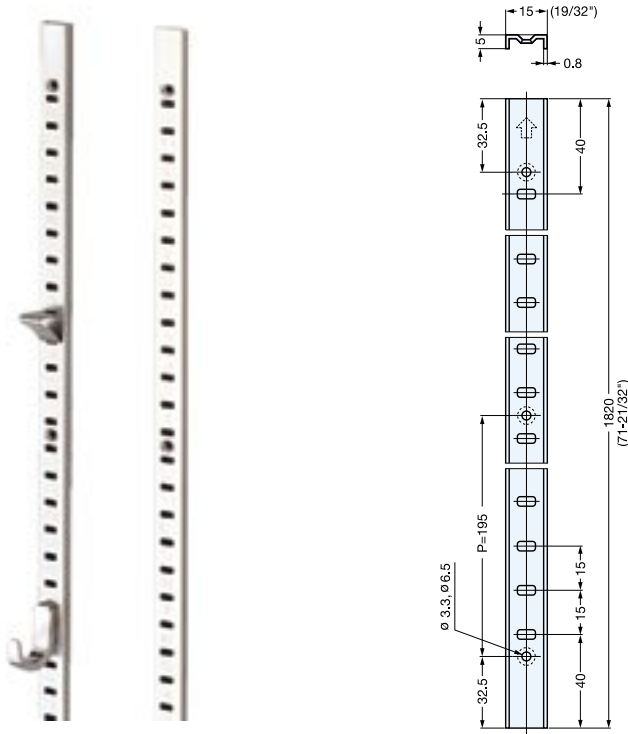
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SHELF STANDARD

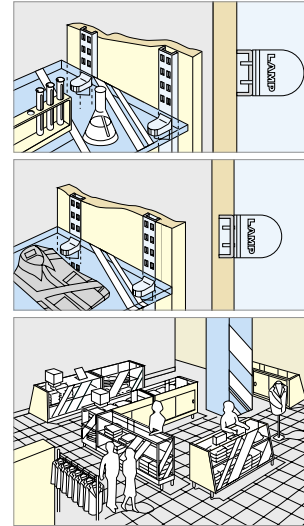


SP-1820



- Easy height adjustment for changing shelf level.
- Shelf support/hook options: SPB-15R, SPB-20, SPF-20 (Shelf Supports) SPB-35 (Hook).

Material	Finish
304 Stainless Steel	Satin



Installation

Item No.	Holes	Weight (g)	Carton (pcs)
SP-1820	9	222	60

SHELF SUPPORT



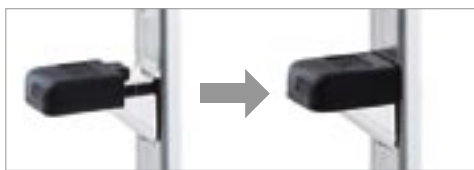
SPB-15R



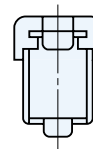
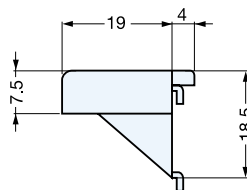
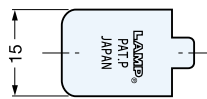
PAT

- Shelf support for SP-1820.
- Friction shelf retention.

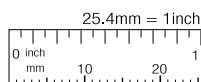
Material	Finish/Color
304 Stainless Steel	Satin
Elastomer	Black



Installation



Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPB-15R	30 (66lbs) / 4pcs	6	300	3000



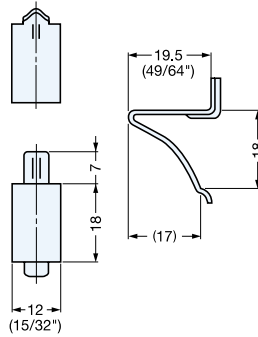
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SHELF SUPPORT

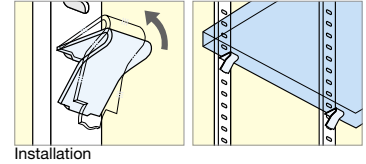
STAINLESS
304
STEEL

SPB-20



- Shelf support for SP-1820.
- Friction shelf retention.

Material	Finish
304 Stainless Steel	Satin

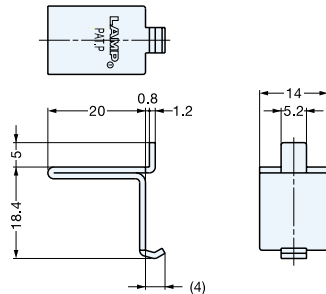


Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPB-20	20 (44lbs) / 4pcs	3.6	300	3000

SHELF SUPPORT

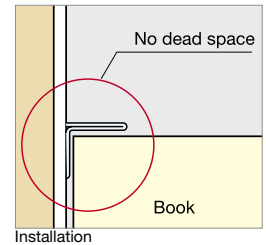
STAINLESS
304
STEEL

SPF-20



- Shelf support for SP-1820.
- Designed to eliminate dead space.

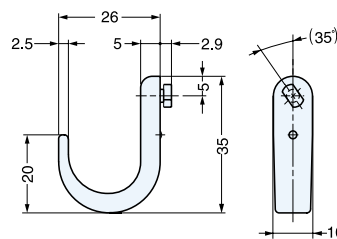
Material	Finish
304 Stainless Steel	Satin



Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPF-20	45 (99lbs) / 4pcs	7	300	3000

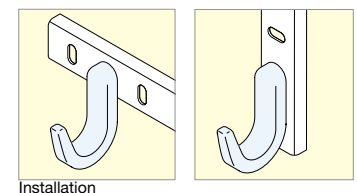
SHELF HOOK

SPB-35



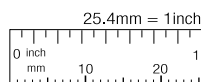
- Hook for SP-1820.
- Can be used with a vertical or horizontal standard.

Material	Finish
Zinc Alloy	Nickel



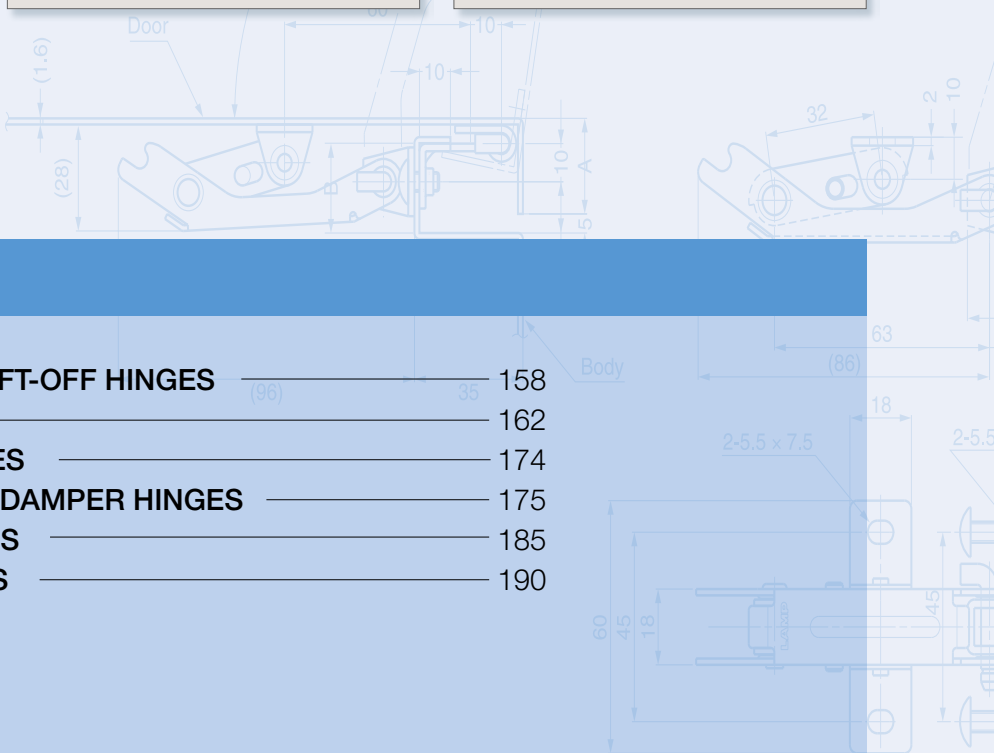
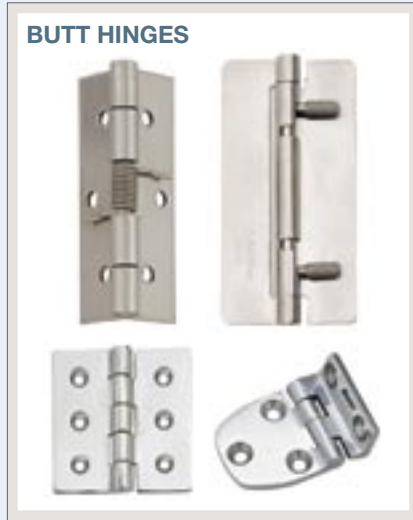
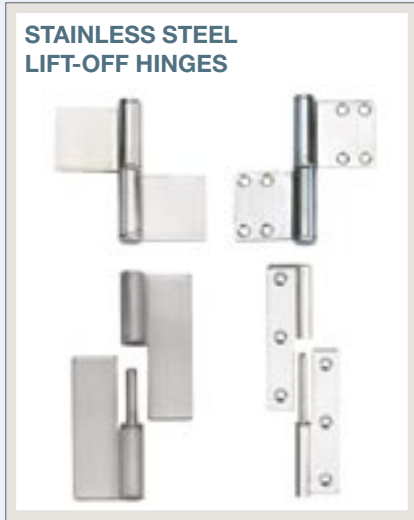
Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
SPB-35	5 (11lbs) / pcs	15.5	150	450

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HINGES

<input type="checkbox"/> STAINLESS STEEL LIFT-OFF HINGES	(96) _____ 35	158
<input type="checkbox"/> BUTT HINGES	_____	162
<input type="checkbox"/> CLEAN ROOM HINGES	_____	174
<input type="checkbox"/> DETENT / TORQUE / DAMPER HINGES	_____	175
<input type="checkbox"/> GLASS DOOR HINGES	_____	185
<input type="checkbox"/> CONCEALED HINGES	_____	190

LIFT-OFF HINGE (WELD-ON)

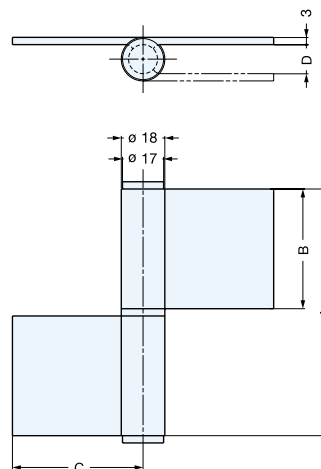
STAINLESS
304
STEEL

S-6166-2



- Weld-on type stainless steel lift-off hinge.
- Left and Right handed available.
- Door weight: Max. 40kg/pair (88lbs/pair)

Material	Finish
304 Stainless Steel	Satin



Item No.		Size	A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right								
S-6166-2-L	S-6166-2-R	4"	102 (4-1/64")	49.5 (1-61/64")	55 (2-5/32")	12 (15/32")	300	12	60

LIFT-OFF HINGE (WELD-ON)

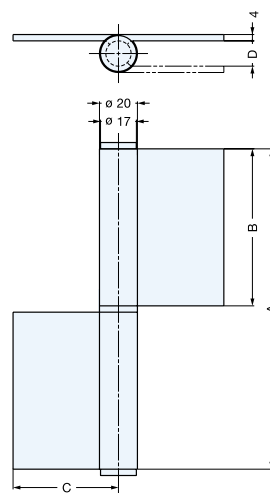
STAINLESS
304
STEEL

S-6166-6



- Weld-on type stainless steel lift-off hinge.
- Left and Right handed available.
- Door weight: Max. 90kg/pair (198lbs/pair)

Material	Finish
304 Stainless Steel	Satin



Item No.		Size	A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right								
S-6166-6-L	S-6166-6-R	6"	152 (5-63/64")	74.5 (2-15/16")	55 (2-5/32")	12 (15/32")	570	8	40

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LIFT-OFF HINGE

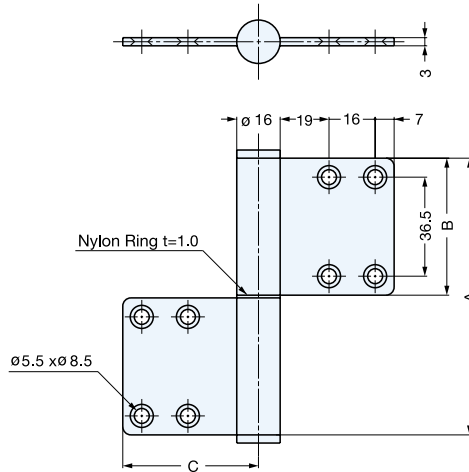


S-6173-2



- Non-handed
- Door weight: Max. 40kg/pair (88lbs/pair)

Material	Finish
304 Stainless Steel	Satin



Item No.	Size	A	B	C	Weight (g)	Box (pcs)	Carton (pcs)
S-6173-2	4"	102 (4-1/64")	50.5 (1-63/64")	50 (1-31/32")	240	12	60

LIFT-OFF HINGE

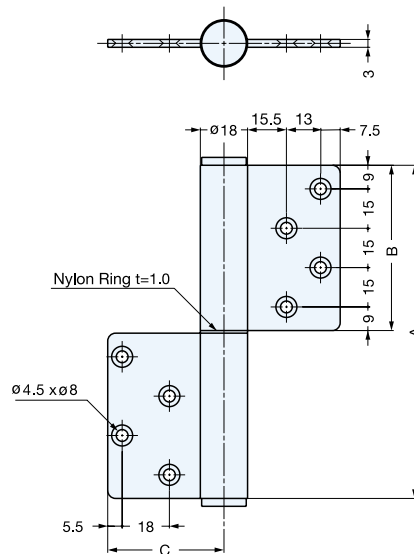


S-6173-5



- Non-handed
- Door weight: Max. 50kg/pair (110lbs/pair)

Material	Finish
304 Stainless Steel	Satin



Item No.	Size	A	B	C	Weight (g)	Box (pcs)	Carton (pcs)
S-6173-5	5"	127 (5")	63 (2-31/64")	45 (1-25/32")	330	8	40

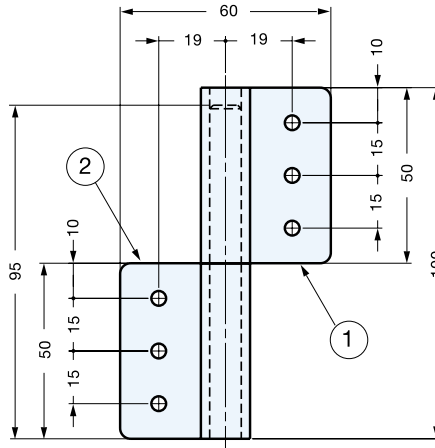
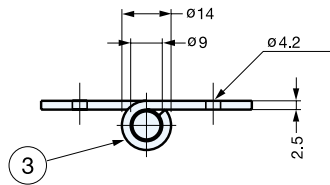
LIFT-OFF HINGE



LSX-100



Right-Hand Opening



- Left and Right handed available.

No.	Part Name	Material	Finish
①	Body A	304 StainlessSteel	Mirror
②	Body B		-
③	Shaft		-

Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
LSX-100L	LSX-100R	170	10	50

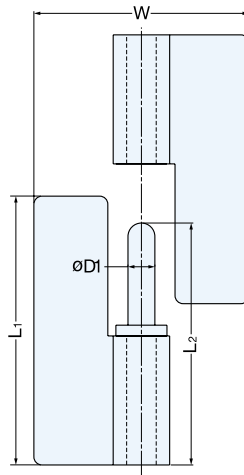
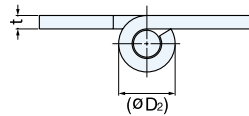
LIFT-OFF HINGE (WELD-ON)



HNH



Right-Hand Opening

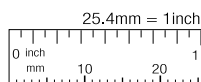


- Weld-on type lift-off hinge.
- Left and Right handed available.

Material	Finish
304 Stainless Steel	Plain

Item No.		L ₁	L ₂	W	øD ₁	(øD ₂)	t	Weight (g)	Box (pcs)
Left	Right								
HNH- 50CL	HNH- 50CR	50	45	40	5	10.5	2.5	62	15
HNH- 65CL	HNH- 65CR	65	60	50	5	10.5	2.5	95	15
HNH- 75CL	HNH- 75CR	75	70	70	6	12	3	180	10
HNH-100CL	HNH-100CR	100	90	82	8	16	4	335	10

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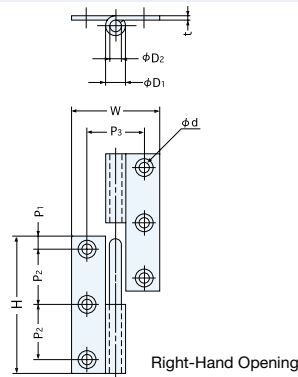
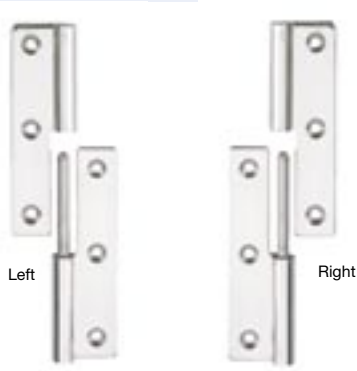
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LIFT-OFF HINGE



KN



- Left and Right handed available.

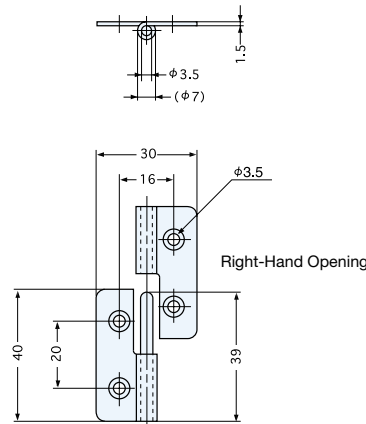
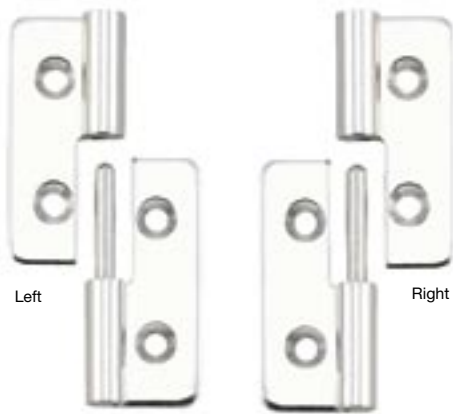
Material	Finish
304 Stainless Steel	Polished

Item No.		H	W	P ₁	P ₂	P ₃	D ₁	D ₂	d	t	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right												
KN-50L/SS	KN-50R/SS	50	32	5	20	21	7.5	4	3.2	1.5	32	100	400
KN-64L/SS	KN-64R/SS	64	36	8	24	24	7.5	4	3.2	1.5	44	100	400
KN-75L/SS	KN-75R/SS	75	38	7.5	30	24	8.5	4	3.2	2	64	50	200

LIFT-OFF HINGE



NH-40



- Left and Right handed available.

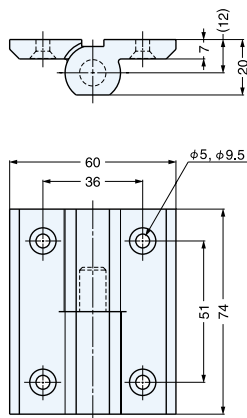
Material	Finish
304 Stainless Steel	Polished

Item No.		t	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right				
NH-40L/SS	NH-40R/SS	1.5	21	150	600

LIFT-OFF HINGE



WB-901380, 901381

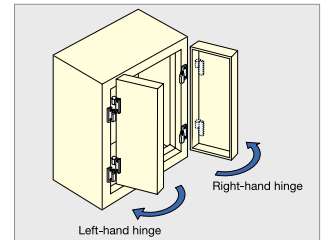


Available in U.S.A. only

- Polyamide lift-off hinge.
- Designed for surface mount.
- Left and Right handed available.

No.	Part Name	Material	Finish
①	Body	Fiberglass Reinforced Polyamide	Black
②	Hinge Pin	303 Stainless Steel	Plain

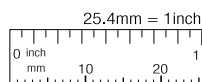
Left-Hand Opening (Surface Mount)



Installation

Item No.		Weight (g)	Box (pcs)
Left	Right		
WB-901381	WB-901380	54	100

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BUTT HINGE (W/SPRING)



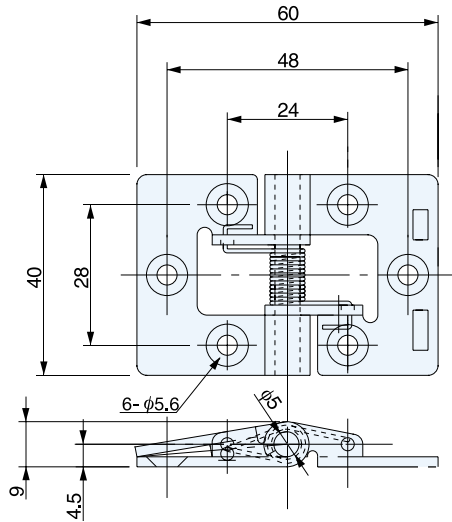
BF3



BF3-SO (Opening Tension)



BF3-SC (Closing Tension)



- Spring hinge to hold door.
- Either closed or open available.

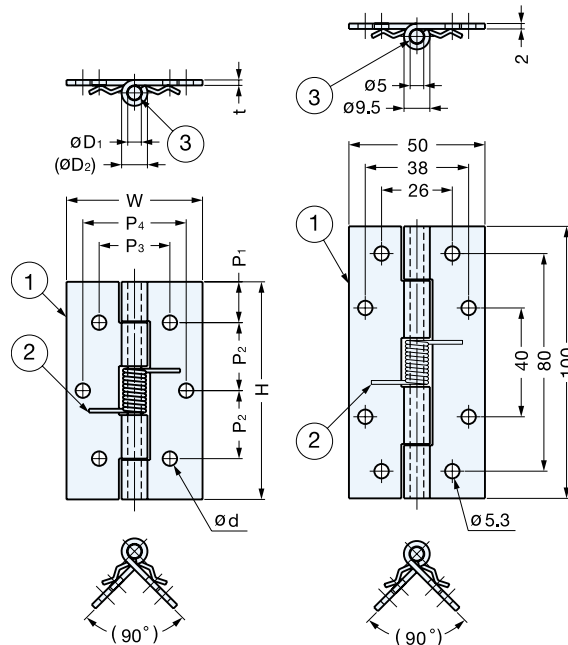
Material	Finish
304 Stainless Steel	Polished

Item No.		Tension Direction	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right				
BF3-2L-SO	BF3-2R-SO	Opening Tension	41	20	120
BF3-2L-SC	BF3-2R-SC	Closing Tension	41	20	120

BUTT HINGE (W/SPRING)



SH-C



- Designed to keep doors closed.

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Polished
②	Spring		-
③	Hinge Pin		-

SH-60C, SH-80C

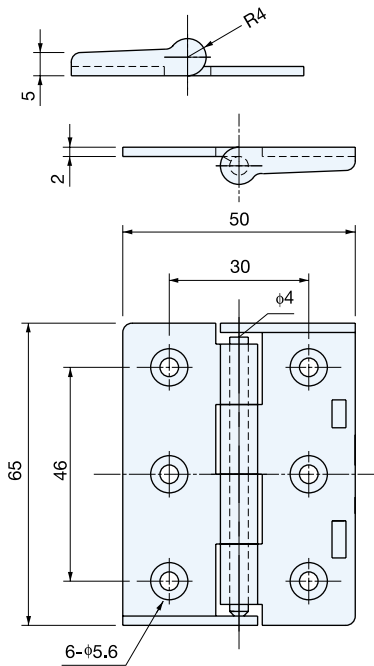
SH-100C

Item No.	H	W	t	P ₁	P ₂	P ₃	P ₄	φD ₁	(φD ₂)	φd	Weight (g)
SH- 60C	60	40	1.5	10	20	26	26	5	8.5	4.3	44
SH- 80C	80	50	2	15	25	26	38	5	9.5	5.3	86
SH-100C	-	-	-	-	-	-	-	-	-	-	110

BUTT HINGE

BF1


PAT.P

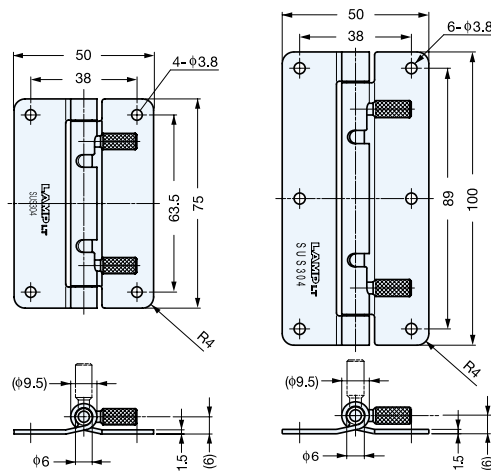


- Rim prevents pin from falling off.

Material	Finish
304 Stainless Steel	Polished

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
BF1	63	20	120

QUICK RELEASE HINGE

OT


OT-A75

OT-A100

- Easy and quick to install/remove doors.
- With or without holes available.

No.	Part Name	Material	Finish
①	Plate	304 Stainless Steel	Polished
②	Spring	304 Stainless Steel	
③	Hinge Pin	303 Stainless Steel	

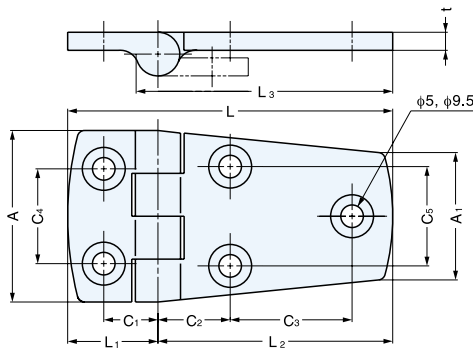
Item No.	Holes	Weight (g)	Box (pcs)	Carton (pcs)
OT-A 75	With screw holes	65	40	160
OT-B 75	Without screw holes	65	40	160
OT-A100	With screw holes	80	30	120
OT-B100	Without screw holes	80	30	120



BUTT HINGE



27800, 27900



- 316 Stainless Steel construction ideal for exposed application.
- Door weight: Max. 4kg/pair (8.8lbs/pair)

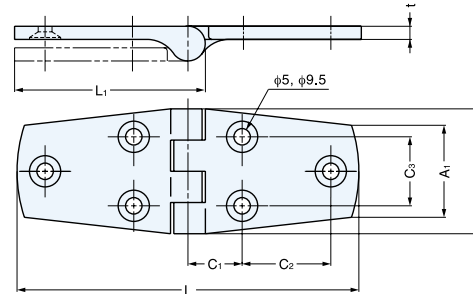
Material	Finish
316 Stainless Steel	Polished

Item No.	L	L ₁	L ₂	L ₃	C ₁	C ₂	C ₃	C ₄	C ₅	A	A ₁	t	Weight (g)	Box (pcs)	Carton (pcs)
27900	58	20	38	42	12	13.5	16.5	21	20	38	28	4	70	20	100
27800	72	20	52	57	12	16	27	22	21	38	28	4	85	20	100

BUTT HINGE



28000, 28500



- 316 Stainless Steel construction ideal for exposed application.
- Door weight: Max. 4kg/pair (8.8lbs/pair)

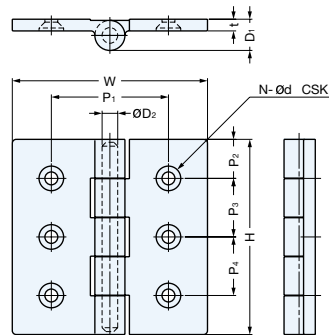
Material	Finish
316 Stainless Steel	Polished

Item No.	L	L ₁	C ₁	C ₂	C ₃	A	A ₁	t	Weight (g)	Box (pcs)	Carton (pcs)
28500	74	42	13	17	20	38	28	4	85	20	100
28000	104	57	16.5	27	21	38	28	4	115	20	100

BUTT HINGE



LSF

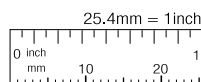


- 316 Stainless Steel construction ideal for exposed application.

Material	Finish
316 Stainless Steel	Polished

Item No.	H	W	P ₁	P ₂	P ₃	P ₄	t	D ₁	φD ₂	Knuckles	N	d	Weight (g)	Box (pcs)	Carton (pcs)
LSF- 50	50	50	35	15	20	-	5	14	6	3	4	φ4.4, φ8.6	110	20	100
LSF- 65	65	65	40	15	35	-	5	14	6	3	4	φ5.6, φ10.6	190	20	80
LSF- 75	75	75	50	17.5	40	-	6	16	8	3	4	φ6.6, φ12.6	305	10	50
LSF-100	100	100	60	20	30	30	6	16	8	5	6	φ6.6, φ12.6	500	10	30

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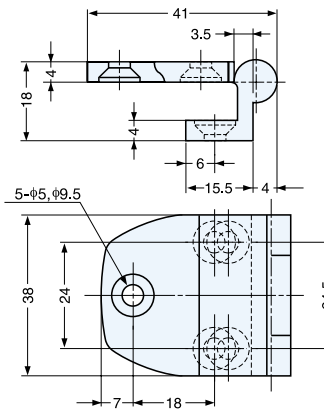
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BUTT HINGE



28100



- 316 Stainless Steel construction ideal for exposed application.
- Door weight: Max. 4kg/pair (8.8lbs/pair)

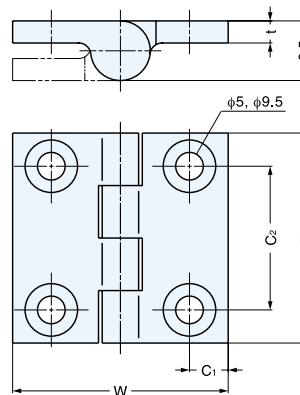
Material	Finish
316 Stainless Steel	Polished

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
28100	78.5	20	100

BUTT HINGE



28300, 28400



- 316 Stainless Steel construction ideal for exposed application.
- Door weight: Max. 4kg/pair (8.8lbs/pair)

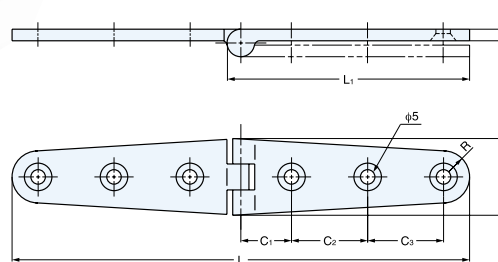
Material	Finish
316 Stainless Steel	Polished

Item No.	H	W	t	C ₁	C ₂	Weight (g)	Box (pcs)	Carton (pcs)
28300	38	39	4	7	26	55	20	100
28400	50	50	4	7.5	34	90	20	100

LEAF HINGE



50704, 50706



- 316 Stainless Steel construction ideal for exposed application.
- Door weight: Max. 2.6kg/pair (5.7lbs/pair)

Material	Finish
316 Stainless Steel	Polished

Item No.	L	L ₁	C ₁	C ₂	C ₃	A	R	t	Holes	Weight (g)	Box (pcs)	Carton (pcs)
50704	105	57	17.5	25	-	26.5	9	4	4	75	20	100
50706	158	84	19.5	25	25	26.5	9	4	6	115	20	100

BUTT HINGE

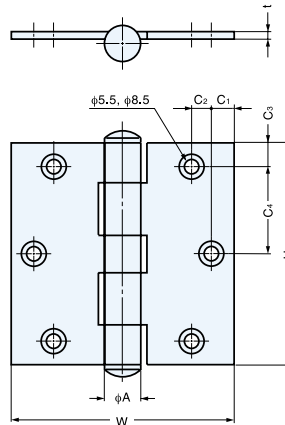


3535/SS, 4040/SS

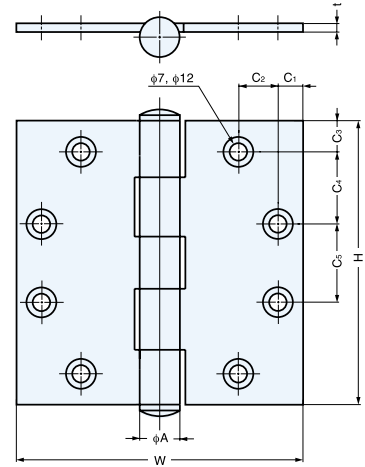


3535/SS

4040/SS



3535/SS



4040/SS

- Door weight:
3535/SS Max. 25kg/ pair (55lbs/ pair)
4040/SS Max. 40kg/ pair (88lbs/ pair)

Material	Finish
304 Stainless Steel	Satin

Item No.	H	W	C ₁	C ₂	C ₃	C ₄	C ₅	A	t	Weight (g)	Box (pcs)	Carton (pcs)
3535/SS	89 (3-1/2")	89 (3-1/2")	9.1	8	9.1	35.4	-	14	3.0	145	2	100
4040/SS	101.6 (4")	101.6 (4")	9.5	9.5	13	25.5	24.6	14.8	3.4	195	2	50

BUTT HINGE (W/BALL BEARING)

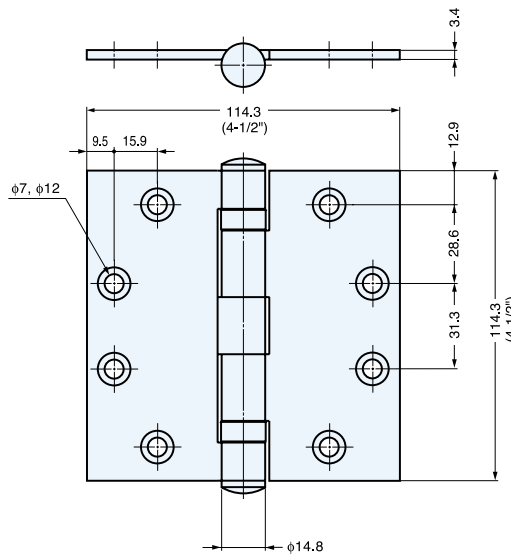


4545B/SS



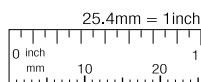
- Ball bearing provides smooth movement.
- Door weight: Max. 45kg/ pair (99lbs/ pair)

Material	Finish
304 Stainless Steel	Satin



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
4545B/SS	420	2	50

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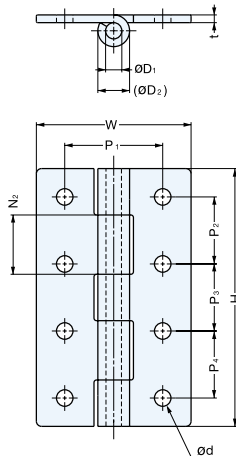
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BUTT HINGE



LSA, LSB



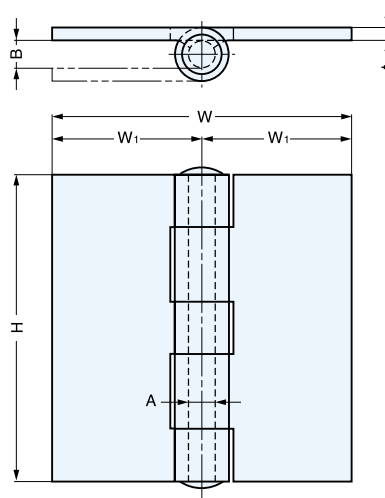
Material	Finish
304 Stainless Steel	Polished

Item No.	Holes	H	W	P ₁	P ₂	P ₃	P ₄	t	d	øD ₁	(øD ₂)	N ₁	N ₂	Door Weight (kg/pair)	Weight (g)	Box (pcs)	Carton (pcs)
LSA- 40	Without Holes	40	35	-	-	-	-	1.5	-	3	6.3	4	3	6 (13 lbs/pair)	25	20	500
LSA- 50		50	35	-	-	-	-	1.5	-	3	6.3	4	3	8 (17 lbs/pair)	30	20	500
LSA- 65		65	50	-	-	-	-	2	-	4	8.3	6	5	13 (28 lbs/pair)	66	20	500
LSA- 75		75	50	-	-	-	-	2	-	4	8.3	6	5	15 (33 lbs/pair)	76	20	500
LSA- 90		90	60	-	-	-	-	3	-	6	12.3	6	5	25 (55 lbs/pair)	190	10	100
LSA-100		100	60	-	-	-	-	3	-	6	12.3	8	5	30 (66 lbs/pair)	200	10	100
LSB- 40	With Holes	40	35	22	26	-	-	1.5	3.2	3	6.3	4	3	6 (13 lbs/pair)	25	20	500
LSB- 50		50	35	22	34	-	-	1.5	4.3	3	6.3	4	3	8 (17 lbs/pair)	30	20	500
LSB- 65		65	50	30	23	23	-	2	4.3	4	8.3	6	5	13 (28 lbs/pair)	64	20	500
LSB- 75		75	50	30	27	27	-	2	5.3	4	8.3	6	5	15 (33 lbs/pair)	74	20	500
LSB- 90		90	60	38	35	35	-	3	6.4	6	12.3	6	5	25 (55 lbs/pair)	180	10	100
LSB-100		100	60	38	26	26	26	3	6.4	6	12.3	8	5	30 (66 lbs/pair)	195	10	100

STAINLESS STEEL WELD-ON HINGE

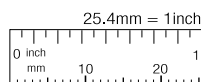


LSK



Material	Finish
304 Stainless Steel	Satin

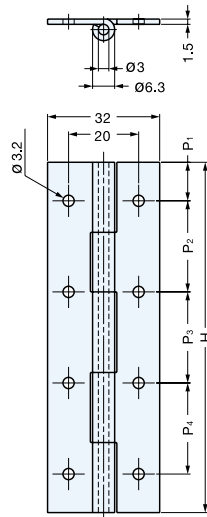
Item No.	H	W ₁	W	A	B	t	Weight (g)	Box (pcs)	Carton (pcs)
LSK-1157-1	51	25	50	6	6	2.5	84	10	250
LSK-1157-2	64	31.5	63	6	6	3	150	10	150
LSK-1157-3	76	37	74	7	7	3	200	10	100
LSK-1157-4	89	43	86	8	8	3	261	10	80
LSK-1157-5	102	49	98	8	8	4	438	10	50
LSK-1157-6	127	61.5	123	11	9	4	691	6	30
LSK-1157-7	152	71.5	143	12	12	4	955	4	20



BUTT HINGE



KHA



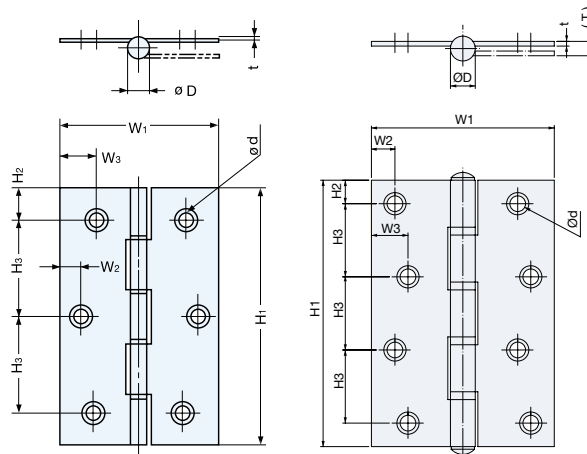
Material	Finish
304 Stainless Steel	Polished

Item No.	H	P ₁	P ₂	P ₃	P ₄	Knuckles	Weight (g)	Box (pcs)	Carton (pcs)
KHA- 25C	25	6	13	-	-	3	13	200	800
KHA- 30C	30	7	16	-	-	3	16	200	800
KHA- 40C	40	8	24	-	-	3	21	150	600
KHA- 50C	50	10	30	-	-	3	26	100	400
KHA- 60C	60	8	22	22	-	5	31	100	400
KHA- 65C	65	8.5	24	24	-	5	34	100	400
KHA- 75C	75	9.5	28	28	-	5	39	50	200
KHA- 80C	80	10	30	30	-	5	42	50	200
KHA- 90C	90	10	35	35	-	5	47	50	200
KHA-100C	100	11	26	26	26	5	52	50	200

BUTT HINGE



D-S-A



D-S-51A-89A

D-S-102A/127A

- Stainless steel hinge with polyacetal bushing.

Part Name	Material	Finish
Body	304 Stainless Steel	Polished
Bushing	Polyacetal	Natural

Item No.	H ₁	H ₂	H ₃	W ₁	W ₂	W ₃	D	t	d	Knuckles	Holes	Weight (g)	Box (pcs)	Carton (pcs)
D-S- 51A	51	7.5	36	39	-	7	6.2	1.3	4.2	3	4	27.4	20	1000
D-S- 64A	64	7	25	42.5	6	8	6.2	1.3	5	5	6	36.5	20	800
D-S- 76A	76	9	29	50	7	9	7.4	1.5	5.2	5	6	59.5	20	480
D-S- 89A	89	10.5	34	56.5	7.5	10.5	9	1.7	5.4	5	6	91.6	10	280
D-S-102A	102	9	28	70	9	14	9.5	1.8	6	5	8	132.5	10	200
D-S-127A	127	11	35	82	10.5	16	11.5	1.9	6	5	8	231.5	6	120

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HEAVY DUTY FLAG HINGE (W/BALL BEARING)

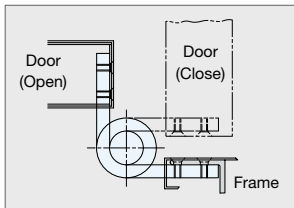


KH SERIES

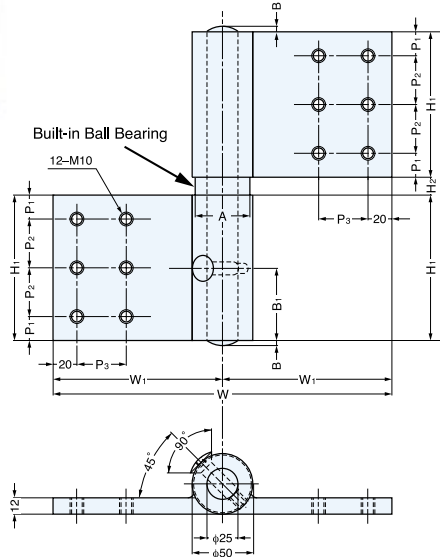


- Door weight:
KH-12-268 Max. 150kg/ pair (330lbs/ pair)
KH-19-275 Max. 200kg/ pair (440lbs/ pair)
KH-20-250 Max. 200kg/ pair (440lbs/ pair)

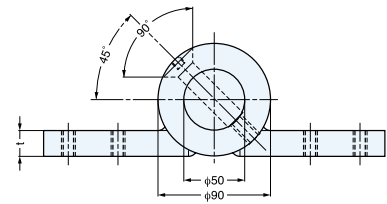
Material	Finish
304 Stainless Steel	Satin



Installation



Axial view for KH-12-268



Axial view for KH-19-275, KH-20-250

Item No.	H	H ₁	H ₂	W	W ₁	A	P ₁	P ₂	P ₃	B	B ₁	t	Weight (kg)	Box (pcs)
KH-12-268	268	125	18	300	150	ø49	17.5	45	45	5	62.5	-	7.4	1
KH-19-275	275	125	25	300	150	ø80	17.5	45	45	10	62.5	19	17.2	1
KH-20-250	250	114	22	280	140	ø78	17	40	40	10	57	20	16.6	1

HEAVY DUTY FLAG HINGE (W/BALL BEARING)

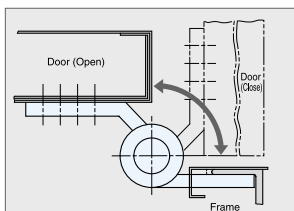


KM SERIES

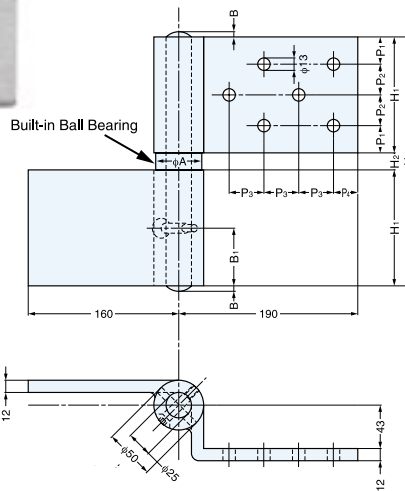


- Door weight:
KM-12-268 Max. 150kg/ pair (330lbs/ pair)
KM-19-275 Max. 200kg/ pair (440lbs/ pair)
KM-20-250 Max. 200kg/ pair (440lbs/ pair)

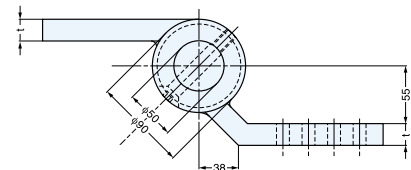
Material	Finish
304 Stainless Steel	Satin



Installation



Axial view for KM-12-268



Axial view for KM-19-275, KM-20-250

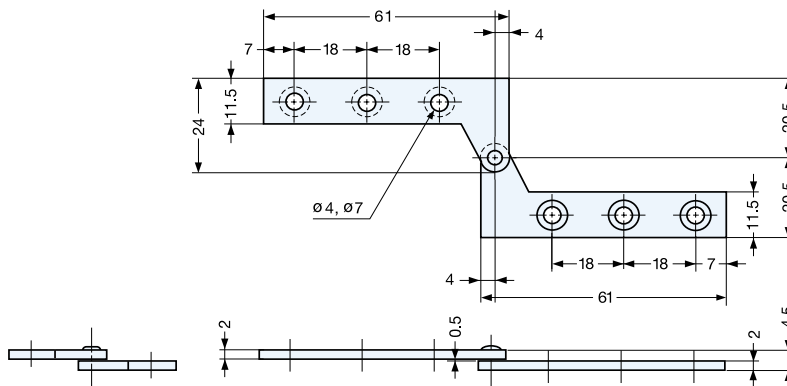
Item No.	H	H ₁	H ₂	A	P ₁	P ₂	P ₃	P ₄	B	B ₁	t	Weight (kg)	Box (pcs)
KM-12-268	268	125	18	ø49	27.5	35	35	25	5	62.5	-	8.3	1
KM-19-275	275	125	25	ø80	27.5	35	30	25	5	62.5	19	19.8	1
KM-20-250	250	114	22	ø78	28	29	25	23	10	57	20	18.1	1

INSET DOOR PIVOT HINGE



PP

- Door weight: Max. 2.6kg/ pair (5.7lbs/ pair)



Material	Finish
430 Stainless Steel	Plain

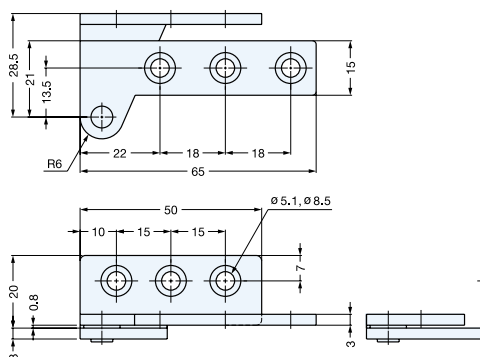
Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
PP-L	PP-R	22	100	1000

OVERLAY DOOR PIVOT HINGE



PL-65

- Door weight: Max. 2.6kg/ pair (5.7lbs/ pair)



Material	Finish
430 Stainless Steel	Plain

Item No.		Weight (g)	Box (set)	Carton (set)
Left	Right			
PL-65L	PL-65R	55	40	400

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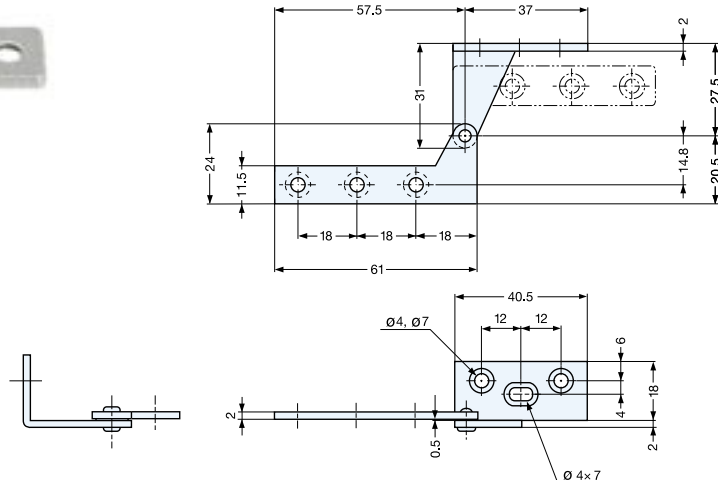
OVERLAY DOOR PIVOT HINGE



PL-60

- Door weight: Max. 2.6kg/ pair (5.7lbs/ pair)

Material	Finish
430 Stainless Steel	Plain



Item No.		Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right				
PL-60L	PL-60R	22 (55/64")	27	100	1000

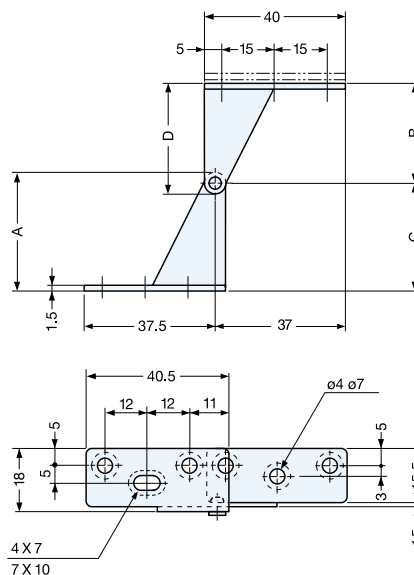
OVERLAY DOOR PIVOT HINGE



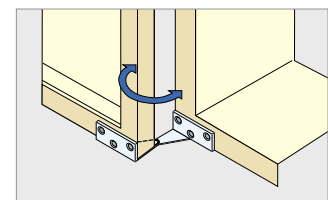
WP

- Door weight: Max. 1.8kg/ pair (3.9lbs/ pair)

Material	Finish
430 Stainless Steel	Plain



Left-Hand Opening



Installation

Item No.		A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right							
WP-1L	WP-1R	34	28	30.5	31	23	100	1000
WP-3L	WP-3R	28	22	24.5	25	21	100	1000

TABLETOP HINGE

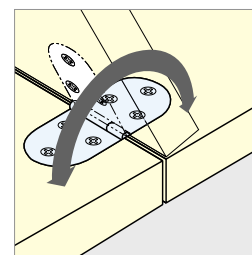
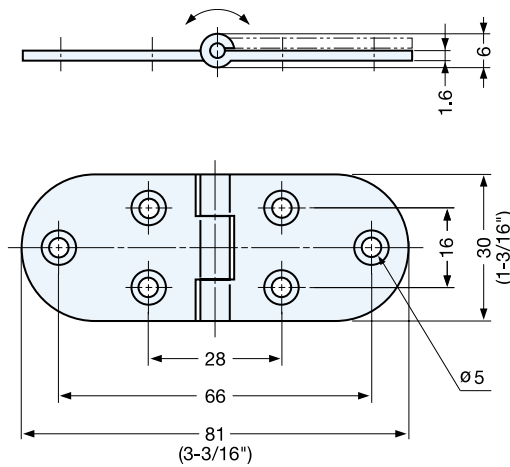


SMH-83



- Door weight: Max. 4kg/pair (8.8lbs/pair)

Material	Finish
304 Stainless Steel	Satin (S)
Steel	Chrome (CR)



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
SMH-83/S	28	100	1000
SMH-83/CR	31	100	1000

DOUBLE ACTION HINGE

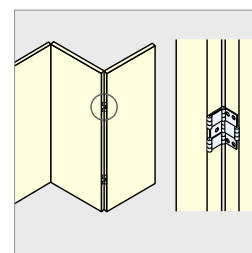
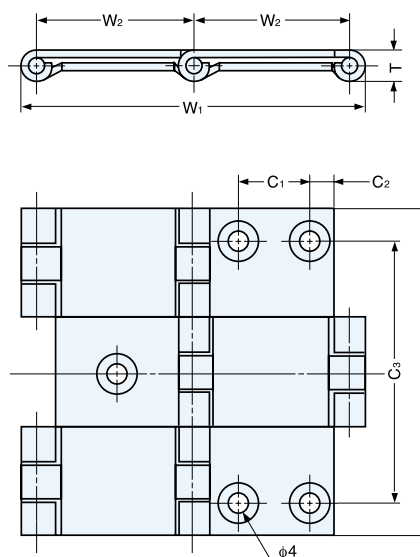


BH



- Opens 180° in both left and right direction.
- Door weight: Max. 2.6kg/ pair (5.7lbs/ pair).

Material	Finish
304 Stainless Steel	Satin



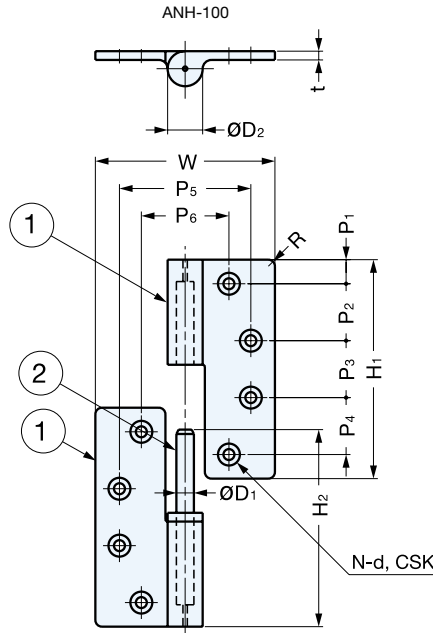
Installation

Item No.	W ₁	W ₂	T	H	C ₁	C ₂	C ₃	Weight (g)	Box (pcs)	Carton (pcs)
BH-60	64	29	5.5	60	13.5	4.8	47	65	20	260
BH-70	78	35	7.5	70	13.5	6.8	57	130	10	180
BH-80	94	43.2	7.5	80	22	6.5	66	175	10	120

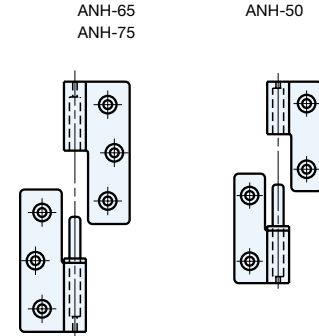
ALUMINUM LIFT-OFF HINGE



ANH



No.	Part Name	Material	Finish
①	Body	Aluminum	Silver
②	Hinge Pin	Stainless Steel	-

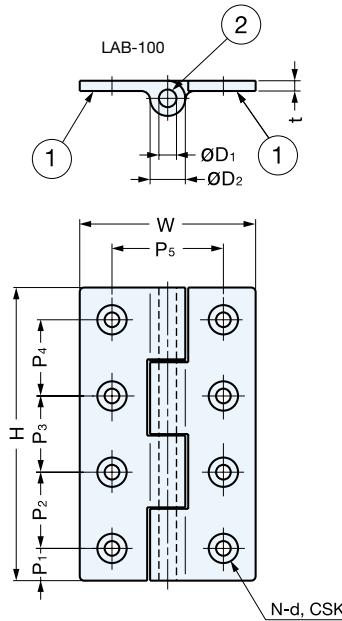


Item No.		H ₁	H ₂	W	t	P ₁	P ₂	P ₃	P ₄	P ₅	P ₆	øD ₁	øD ₂	N	d	R
Left	Right															
ANH- 50L	ANH- 50R	50	45	40	3	10	-	-	30	-	26	5	10	4	M4	2
ANH- 65L	ANH- 65R	65	52.5	50	3	10.5	22	-	22	36	30	5	10	6	M4	2
ANH- 75L	ANH- 75R	75	68	70	3.5	10.5	27	-	27	50	40	6	12	6	M5	3
ANH-100L	ANH-100R	100	90	82	4	11	26	26	26	60	40	8	16	8	M5	3

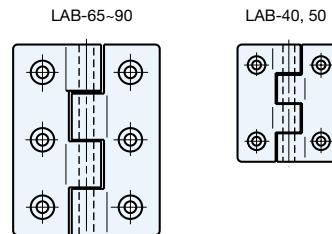
ALUMINUM BUTT HINGE



LAB



No.	Part Name	Material	Finish
①	Body	Aluminum	Silver
②	Hinge Pin	Stainless Steel	-



Item No.	H	W	t	P ₁	P ₂	P ₃	P ₄	P ₅	øD ₁	øD ₂	N	d
LAB- 40	40	35	2.5	7	-	-	26	22	4	8	4	M3
LAB- 50	50	35	2.5	8	-	-	34	22	4	8	4	M3
LAB- 65	65	50	3	9.5	-	23	23	30	5	10	6	M4
LAB- 75	75	50	3	10.5	-	27	27	30	5	10	6	M4
LAB- 90	90	60	3.5	10	-	35	35	38	6	12	6	M5
LAB-100	100	60	3.5	11	26	26	26	38	6	12	8	M5

CLEAN ROOM HINGE (W/BUSHING)



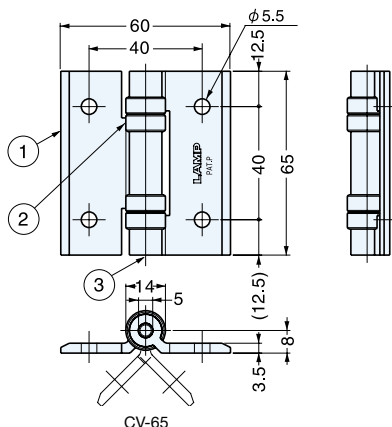
CV-65, 100



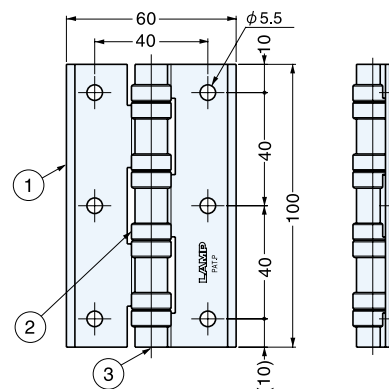
PAT.P

- No metal-to-metal contact.
- Polyacetal bushings minimize particles.
- Door weight:
CV-65 Max. 8kg/pair (17.6lbs/pair)
CV-100 Max. 13kg/pair (28.6lbs/pair)

No.	Part Name	Material	Finish
①	Body	Aluminum	Alumite
②	Bushing	Polyacetal	White
③	Hinge Pin	304 Stainless Steel	-



CV-65



CV-100

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
CV- 65	60	20	240
CV-100	100	20	160

CLEAN ROOM HINGE (W/BUSHING)



CV-65N

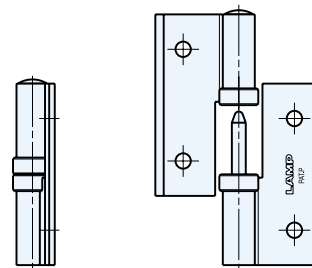
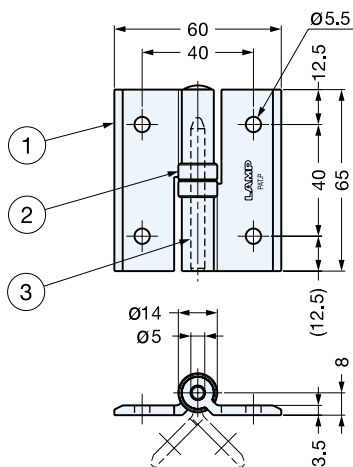


PAT.P

Left-Hand Opening

- No metal-to-metal contact.
- Polyacetal bushings minimize particles.

No.	Part Name	Material	Finish
①	Body	Aluminum	Alumite
②	Bushing	Polyacetal	White
③	Hinge Pin	304 Stainless Steel	-



Item No.	Type	Weight (g)	Box (pcs)	Carton (pcs)
CV-65NR	Right Hand	48	20	200
CV-65NL	Left Hand			

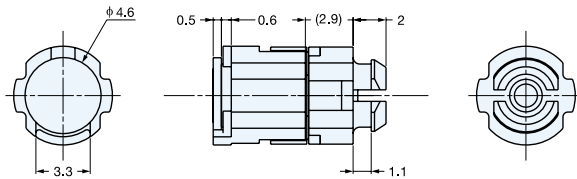
CELL PHONE HINGE (W/DETENT)

MPH

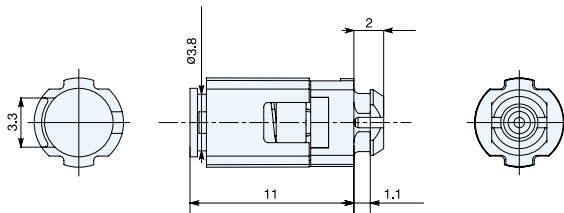
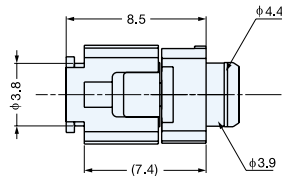


PAT

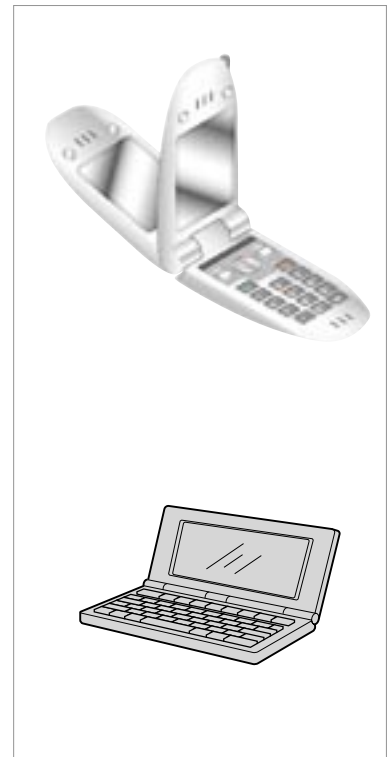
- Ultra compact detent hinge ideal for clamshell type cell phone, PDA and other foldable device.
- Designed for 160° opening.
- Detent catch in open and closed position.
- Friction torque moment provided to lightly hold device in any angle.
- Easy snap-in for quick assembly.
- Unhanded for easy manufacturing process.
- Passed private 100,000 open/close cycle test.
- Application:
 - Cell phone
 - PDA
 - Head set
 - Gaming device
 - Webcam



MPH-22



MPH-30



Part Name	Material	Finish
Body	Polyacetal	Grey
Spindle	Steel	Yellow Zinc Chromate

Item No.	Weight (g)	Carton (pcs)
MPH-22	0.62 (0.02 oz)	4000
MPH-30	1.01 (0.04 oz)	4000

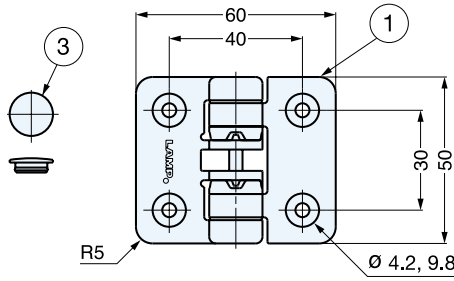
DETENT HINGE



YJ-50

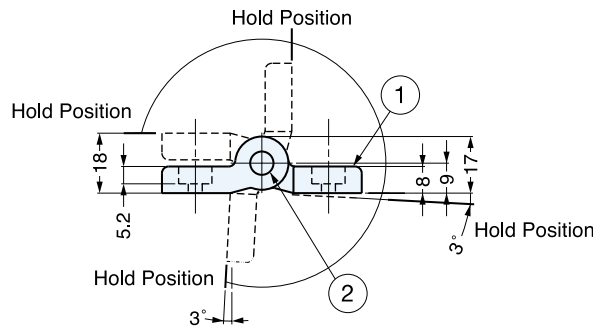


PAT



- Plastic hinge holds doors at 4 different positions (90° each) without secondary support.
- Ivory or Black available.
- Door weight: Max.1.2kg/ pair (2.6lbs/ pair)

No.	Part Name	Material	Color
①	Body	Polyacetal	Ivory/Black
②	Hinge Pin	303 Stainless Steel	-
③	Cap	Polypropylene	Ivory/Black



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
YJ- 50/IV	30	20	200
YJ- 50/BLK			

DETENT HINGE



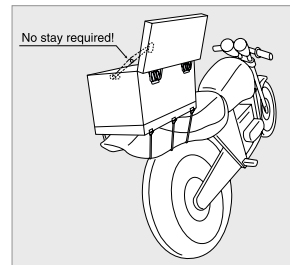
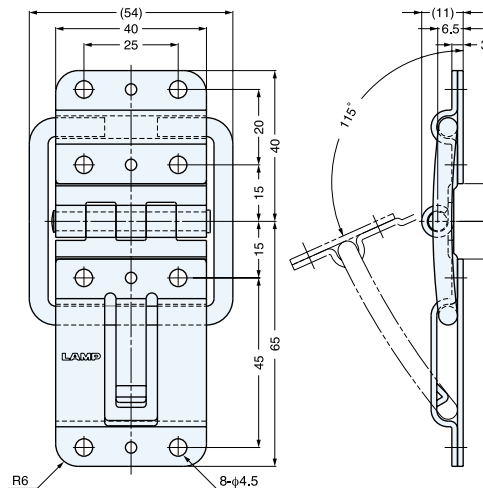
YC-105



PAT

- Holds doors open without secondary support.

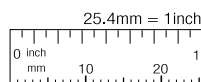
Material	Finish
304 Stainless Steel	Polished



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
YC- 105	122	10	100

Installation

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DETENT HINGE (WITH or WITHOUT DAMPER)



CSH-63



(W/Damper)

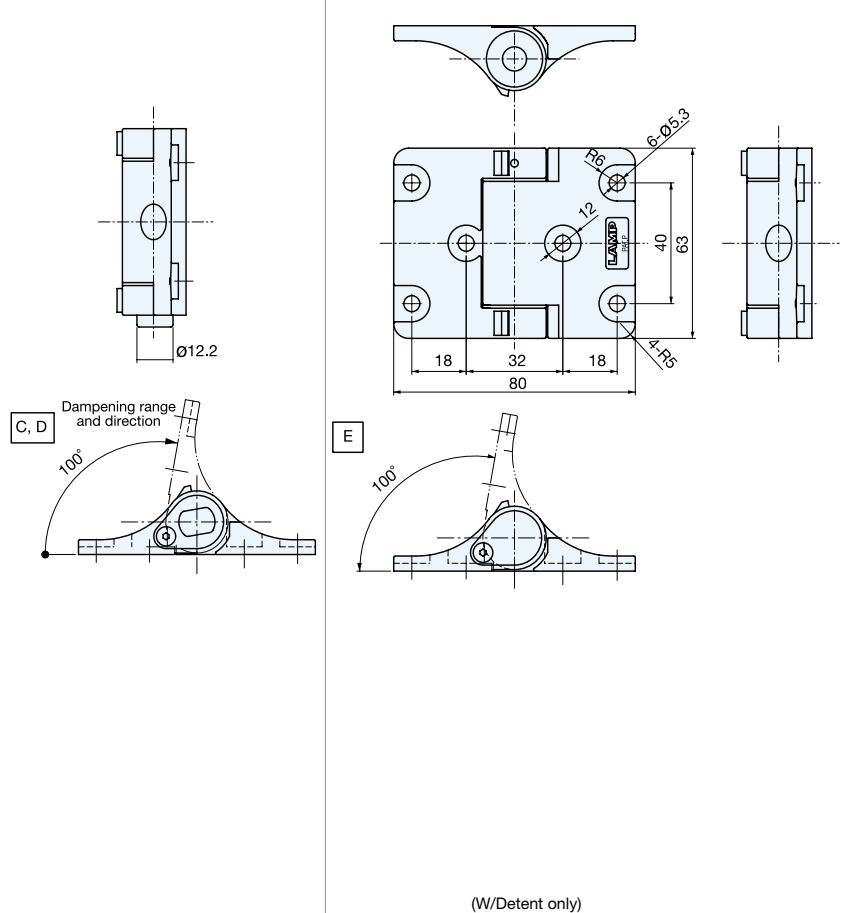
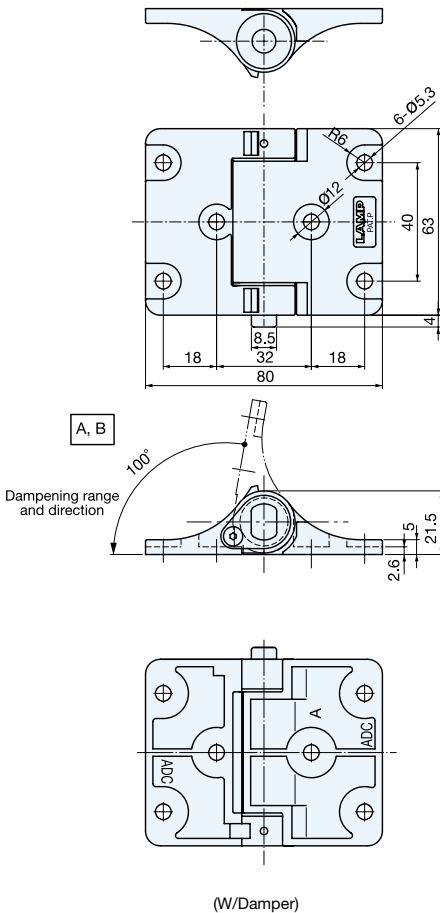


PAT.P

(W/Detent only)

- Detent hinge with built-in damper as an option.
- Detent will hold lid in open/closed position without secondary support, and optional damper will provide soft closing.
- Operating angle: 100° (Detent at both 0° and 100°)
- Detent holding force: 10.2 kgf-cm (8.8 lbs-in)
- Damper torque range: 10.2-25.5 kgf-cm (9-22 lbs-in)

Material	Finish
Zinc Alloy	Silver



Item No.	Torque (kgf-cm)	Dampening Direction	Type	Weight (g)	Box (pcs)	Carton (pcs)
CSH-63AH	17.3~25.5 (15~22 lbs-in)	Counter Clockwise	A	85	10	120
CSH-63AM	10.2~17.3 (9~15 lbs-in)	Counter Clockwise	B	85	10	120
CSH-63BH	17.3~25.5 (15~22 lbs-in)	Clockwise	C	85	10	120
CSH-63BM	10.2~17.3 (9~15 lbs-in)	Clockwise	D	85	10	120
CSH-63	-	-	E	102	10	120

DETENT HINGE

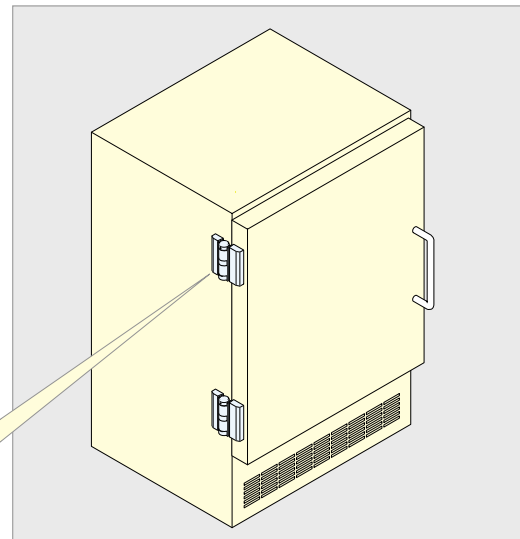
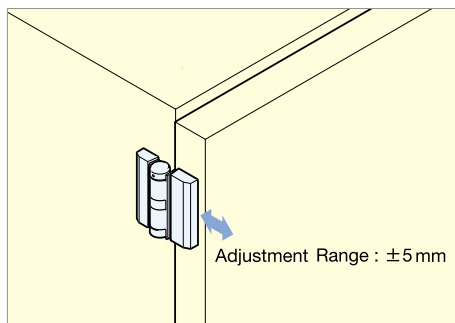
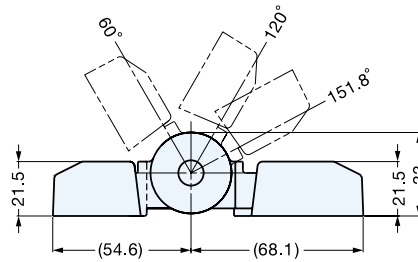
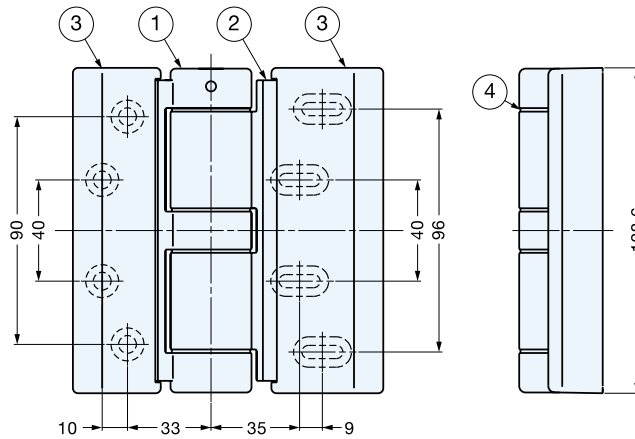


FH-128



- Ideal for doors which need to be compressed.
- Horizontally adjustable for better compression.
- Holds doors at 60° and 120°.
Max. Open: 152°
- Plastic washer provides smooth movement.

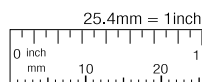
No.	Part Name	Material	Finish
①	Body A	Zinc Alloy	Nickel
②	Body B	Zinc Alloy	Nickel
③	Cover A, B	Polycarbonate	Silver
④	Washer	Fluoroplastic	-



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
FH-128	1400	2	10

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STAINLESS STEEL TORQUE HINGE

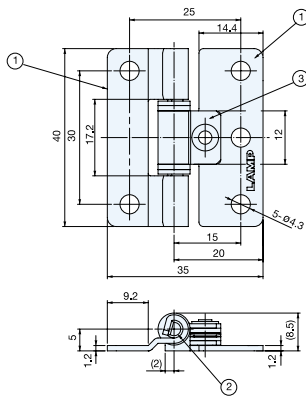


SFTH

- Designed for holding lid/door in position.
- Stainless steel construction for corrosive environments.
- Operating temperature: -20°C-60°C (-4°F-140°F)

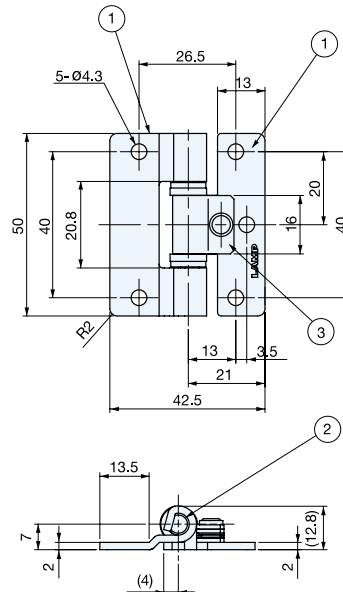


No.	Part Name	Material	Finish
①	Body A	304 Stainless Steel	Polished
②	Shaft	303 Stainless Steel	Polished
③	Body B	301 Stainless Steel	Polished

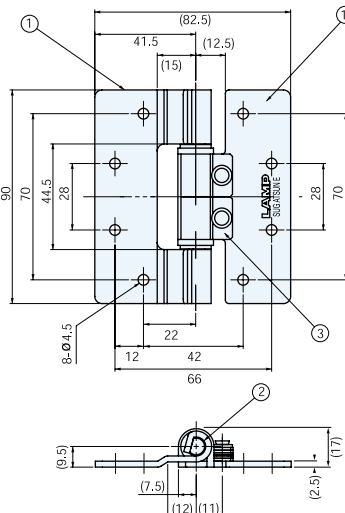


SFTH-02

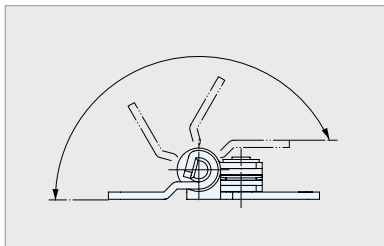
PAT.P



SFTH-03



SFTH-05



Applicable torque range

Item No.	Torque per piece (kgf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
SFTH-02-5	5 (4.3 lbs-in) ±1kgf-cm	21	50	500
SFTH-03-9	9 (7.8 lbs-in) ±2kgf-cm	51	30	300
SFTH-03-19	19 (16.5 lbs-in) ±2kgf-cm	51	30	300
SFTH-05-35	35 (30.1 lbs-in) ±5kgf-cm	195	10	100
SFTH-05-58	58 (49.9 lbs-in) ±5kgf-cm	195	10	100

STAINLESS STEEL TORQUE HINGE



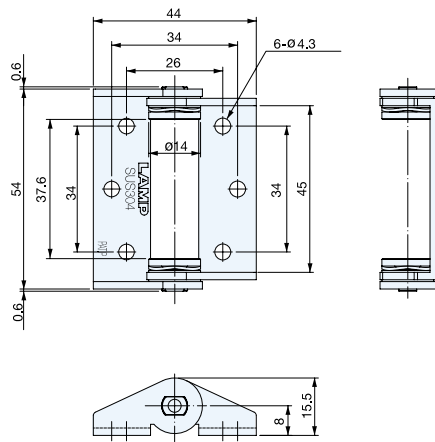
IT-S, M

- Designed for holding monitors, displays etc. in position.

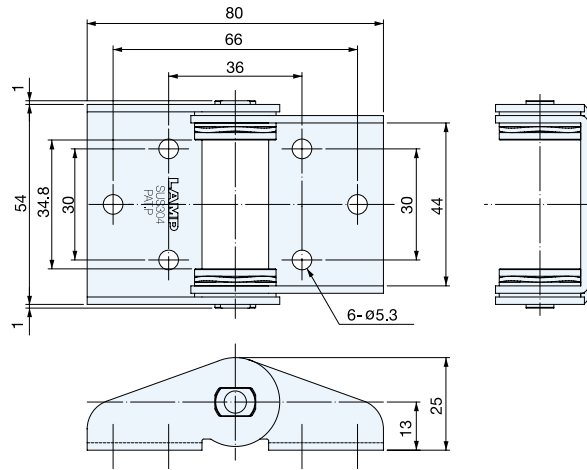


Part Name	Material	Finish
Body	304 Stainless Steel	Polished
Shaft	303 Stainless Steel	-
Washer	Phosphor Bronze	-
Spring Washer	Steel	-

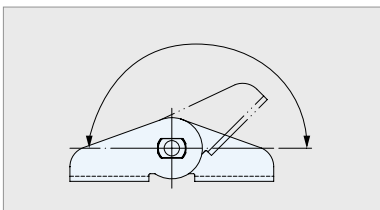
PAT.P



IT-S25, 35



IT-M50, 70



Applicable torque range

Item No.	Torque per piece (kgf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
IT-S25	25 (21.7 lbs-in) ±20%	50	20	160
IT-S35	35 (30.4 lbs-in) ±20%	50	20	160
IT-M50	50 (43.4 lbs-in) ±20%	130	10	80
IT-M70	70 (60.8 lbs-in) ±20%	130	10	80

*20,000 life cycles based on movement within 45° range.

SOFT-CLOSE DAMPENING HINGE



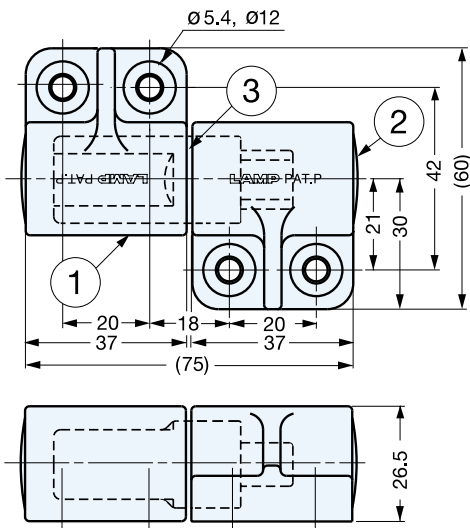
JH-25, 35

- Soft-Close damper keeps lid from slamming shut.
- Operating temperature: 0-40°C (32-104°F)
- Operating angle: 115° / Dead angle 5°

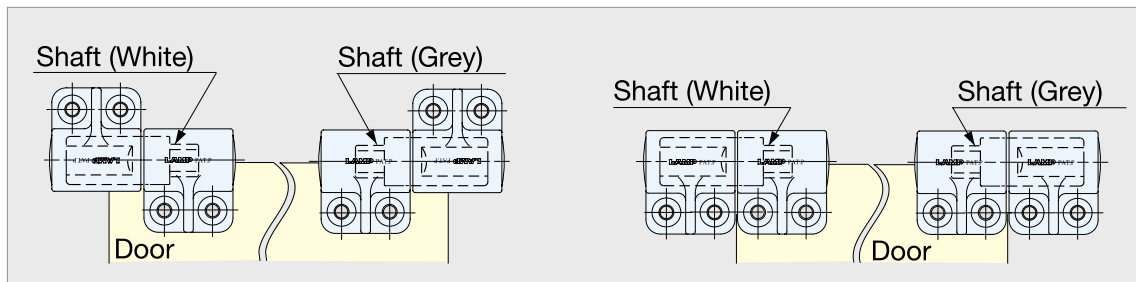
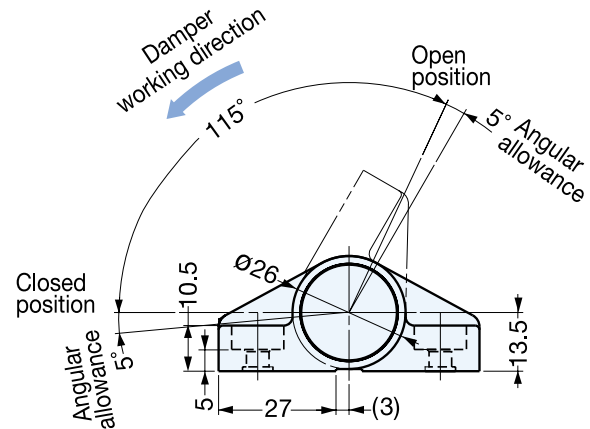
No.	Part Name	Material	Color
①	Bracket	PB Plastic	Dark Grey
②	Cap	Polypropylene	Dark Grey
③	Damper	304 Stainless Steel	-



PAT.P



Left-Hand Damper is shown



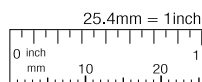
Installation

Item No.	Shaft Color		Torque per pair (kgf-cm)	Weight (g)	Box (pairs)	Carton (pairs)
JH-25	White	Grey	31-51 (27-44 lbs-in)	100	4	64
JH-35	(A-type)	(B-type)	51-71 (44-61 lbs-in)			

*A-type damper: Damper works counterclockwise.

*B-type damper: Damper works clockwise.

*Sold per pair. (Each of A/B type)



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SOFT-CLOSE DAMPENING HINGE



JH-W50, 70

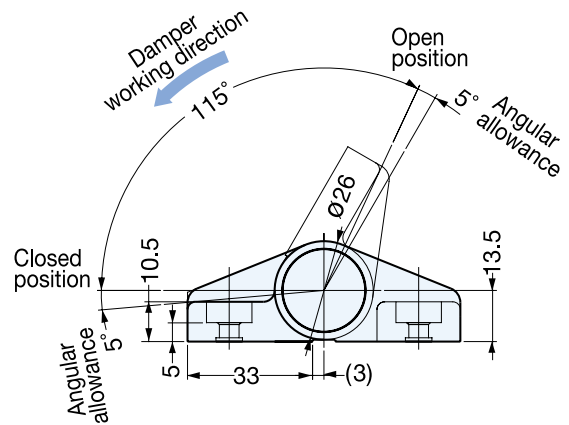
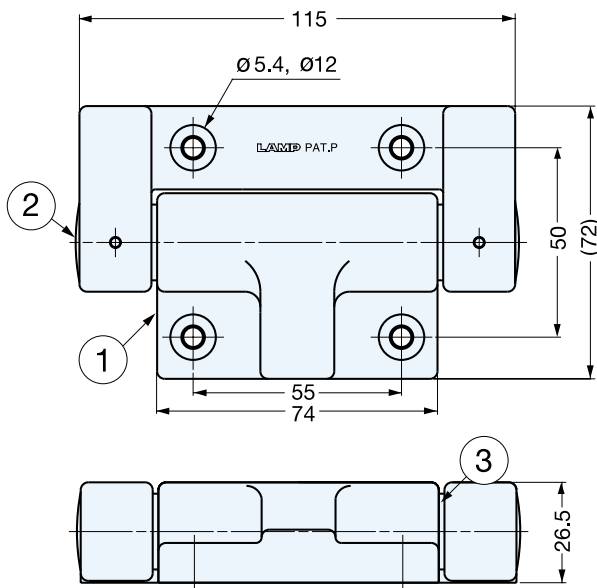
- Soft-Close damper keeps lid from slamming shut.
- Operating temperature: 0-40°C (32-104°F)
- Operating angle: 115° / Dead angle 5°

* Sold per piece.

No.	Part Name	Material	Color
①	Bracket	PB Plastic	Dark Grey
②	Cap	Polypropylene	Dark Grey
③	Damper	304 Stainless Steel	-

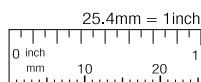


PAT.P



Item No.	Torque per pair (kgf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
JH-W50	61 - 102 (53 - 88 lbs-in)	200	4	64
JH-W70	102 - 143 (88 - 124 lbs-in)			

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LIFT ASSIST HINGE



JH-210



PAT.P

- Spring assists in opening heavy doors.
- Built-in damper keeps lid from slamming shut.
- Passed private 30,000 open/close cycle tests.
- Maximum torque: 210 kgf·cm (182 lbs-in) per piece

No.	Part Name	Material	Finish
①	Body	316 Stainless Steel	Polished
②	Built-In UDH Damper	304 Stainless Steel + PBT Plastic	-

■ Moment Formula and Graph

Door Moment $M_t = W \times \frac{L}{2} \times \cos \theta$

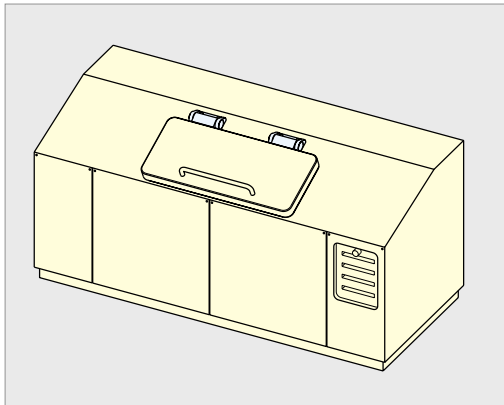
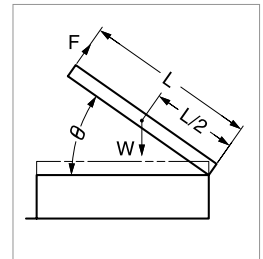
Hinge Moment $M_h = M_m \times (1 - \frac{\theta}{115})$

Torque to lift door $M_z = M_h - M_t$

Force to lift door $F = \frac{M_t - M_h}{L}$

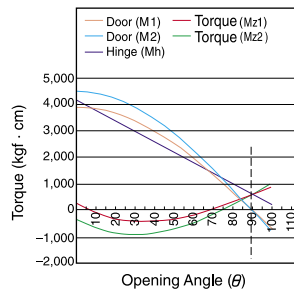
W : Door Weight θ : Opening Angle
L : Door Length M_m : Torque of Assist Hinge

When M_z is:
"-" shows closing force. "+" shows opening force.

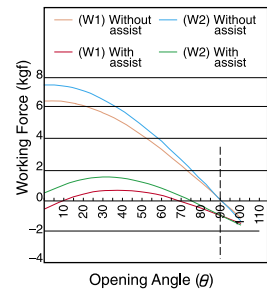


Installation

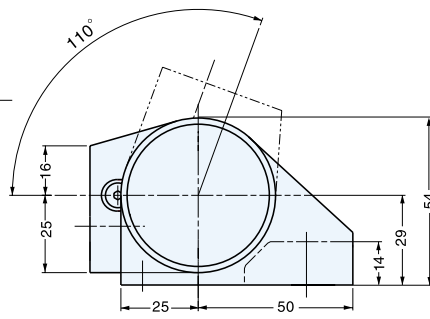
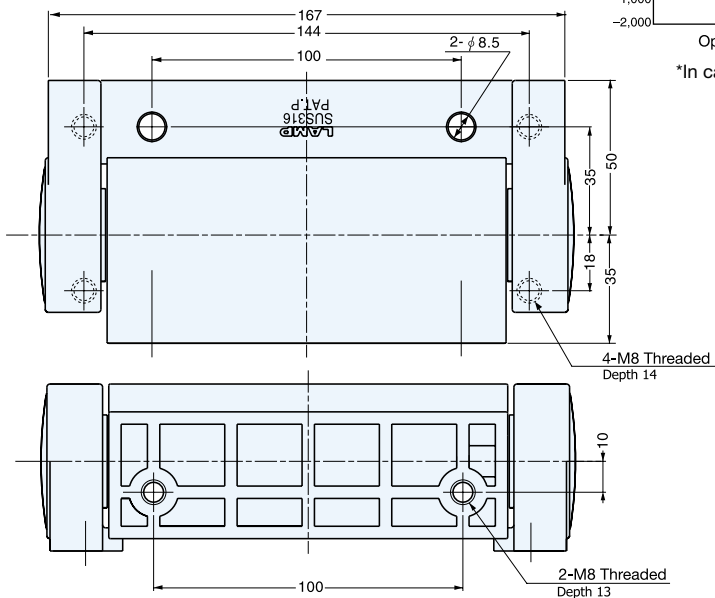
Assist Hinge Moment



Working Force at opening Angle (Compared with No Assist)



*In case of JH-210 used in pair. (L: 60cm, W1: 13kg, W2:15kg)



Item No.	Torque per piece (kgf·cm)	Weight (kg)	Box (pcs)	Carton (pcs)
JH-210	210 (182lbs-in)	2.4	1	10

SPRING LOADED PIVOT HINGE

STAINLESS
304
STEEL

PV-60AC

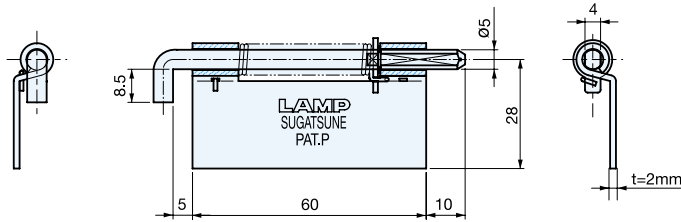
- Spring loaded for self closing.
- Lift pin for easy installation and removal.
- Torsion moment (Hinge closed): 0.76 kgf-cm (0.66 lb-in) per piece

Material	Finish
304 Stainless Steel	Plain

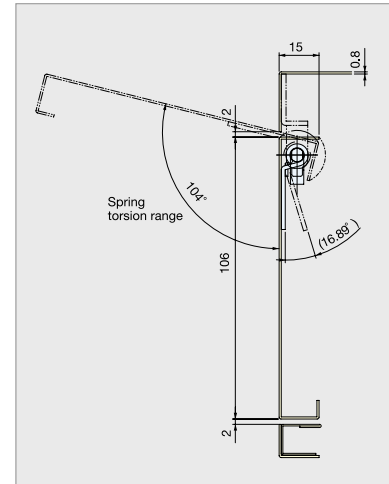
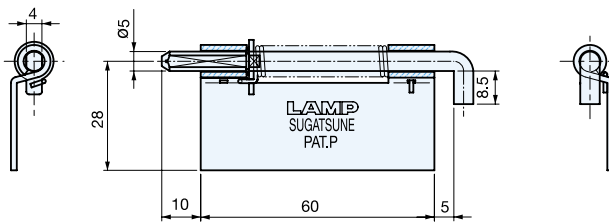


PAT.P

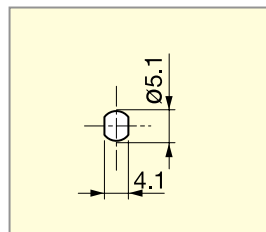
Left



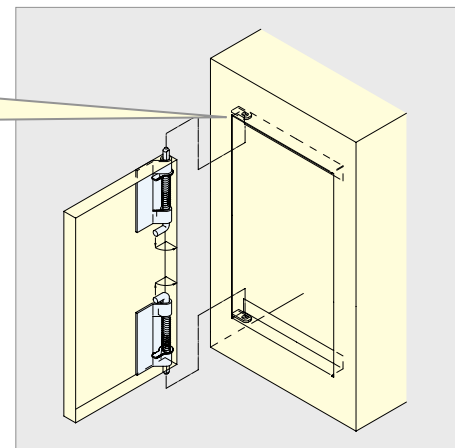
Right



Installation

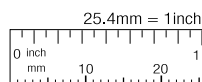


Cut Out Dimensions



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
PV-60AC-L	38	50	200
PV-60AC-R	38	50	200

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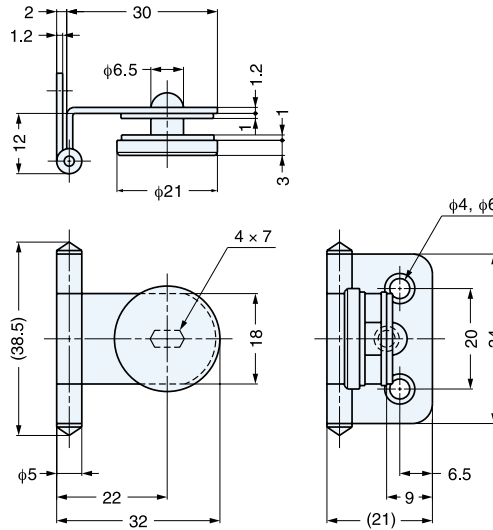
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INSET GLASS DOOR HINGE



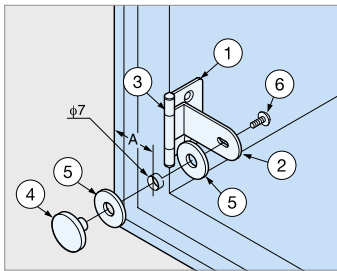
GH-34/0/S



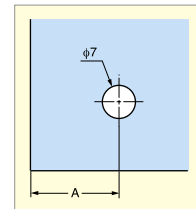
- Hinge for glass/acrylic doors.
- Door thickness: 4-6 mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Plain
②	Arm		
③	Hinge Pin	Aluminum	Alumite
④	Plate		
⑤	Washer	Chloroethylene	Clear
⑥	Screw	304 Stainless Steel	Plain

Glass Thickness	A
4 (5/32")	19
5 (3/16")	18
6 (15/64")	17



Installation



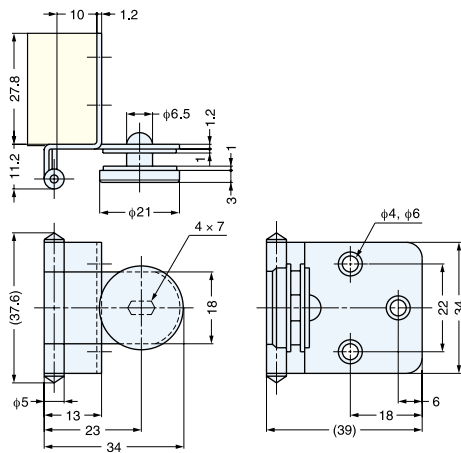
Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-34/0/S	15	150	900

HALF OVERLAY GLASS DOOR HINGE



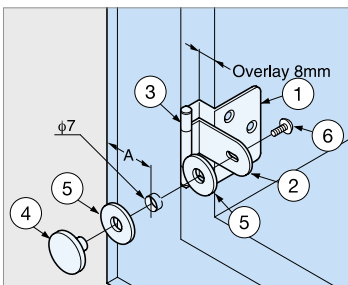
GH-34/8/S



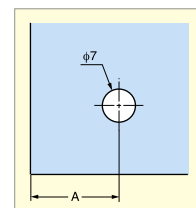
- Hinge for glass/acrylic doors.
- Door thickness: 4-6 mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Plain
②	Arm		
③	Hinge Pin	Aluminum	Alumite
④	Plate		
⑤	Washer	Chloroethylene	Clear
⑥	Screw	304 Stainless Steel	Plain

Glass Thickness	A	Overlay
4 (5/32")	19	8
5 (3/16")	18	7
6 (15/64")	18	7



Installation



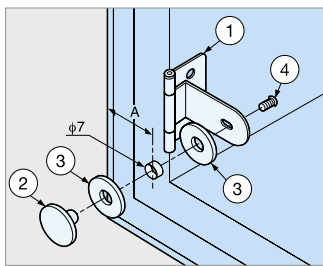
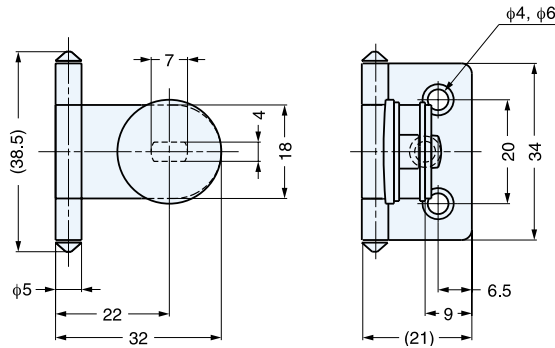
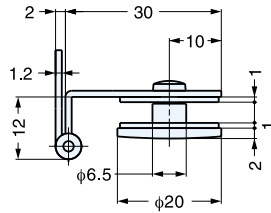
Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-34/8/S	21	100	600

INSET GLASS DOOR HINGE



GH-34/0

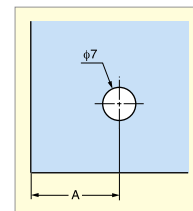


Installation

- Hinge for glass/acrylic doors.
- Door thickness: 4-6 mm
- Door size: Max. W450 x H700 x t5mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②	Plate	Brass	
③	Washer	Chloroethylene	Clear
④	Screw	Steel	Nickel

Glass Thickness	A
4 (5/32")	19
5 (3/16")	18
6 (15/64")	17



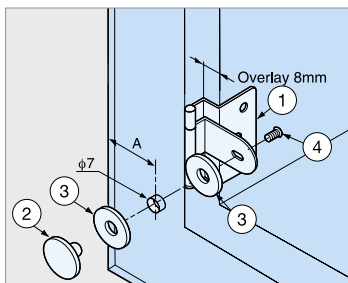
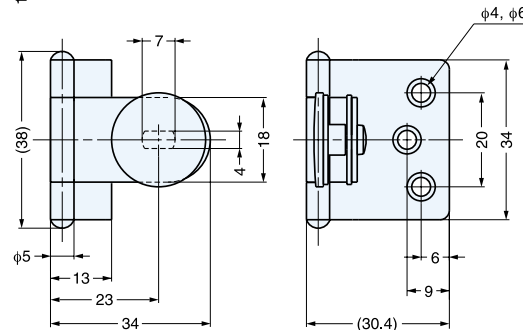
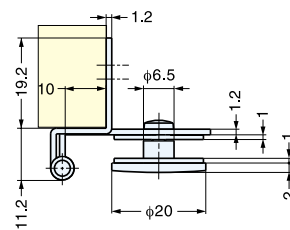
Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-34/0	23.5	150	900

HALF OVERLAY GLASS DOOR HINGE



GH-34/8

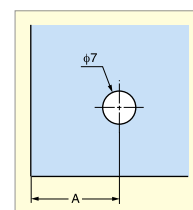


Installation

- Hinge for glass/acrylic doors.
- Door thickness: 4-6 mm
- Door size: Max. W450 x H700 x t5mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②	Plate	Brass	
③	Washer	Chloroethylene	Clear
④	Screw	Steel	Nickel

Glass Thickness	A	Overlay
4 (5/32")	19	8
5 (3/16")	18	7
6 (15/64")	18	7



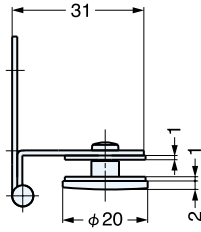
Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-34/8	25	50	500

INSET GLASS DOOR LIFT-OFF HINGE



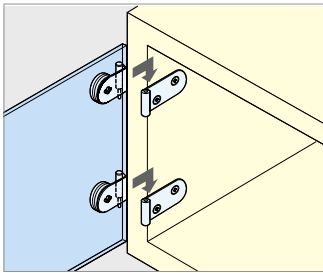
GH-36/NCR



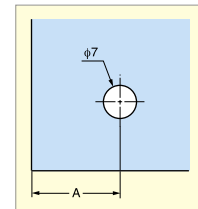
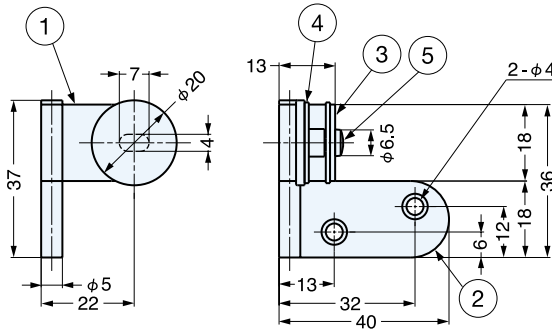
- Lift-off Hinge for glass/acrylic doors.
- Door thickness: 4-6 mm
- Door size: Max. W450 x H700 x t5mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish
①	Body	Steel	Chrome
②			
③	Plate	Brass	
④	Washer	Chloroethylene	Clear
⑤	Screw	Steel	Nickle

Glass Thickness	A
4 (5/32")	20
5 (3/16")	20
6 (15/64")	20



Installation



Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	
GH-36/NCRL	GH-36/NCRR	24.5	100	400

HALF OVERLAY GLASS DOOR HINGE (W/CATCH)



GHC-34/8



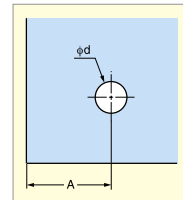
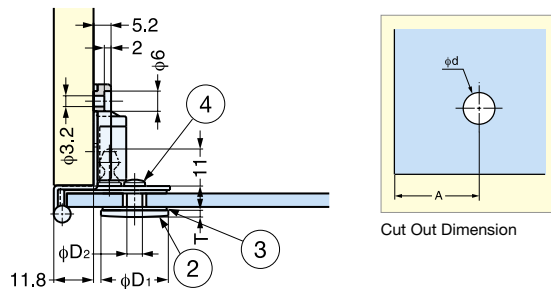
GHC-34/8/CR



GHC-34/8/BLK



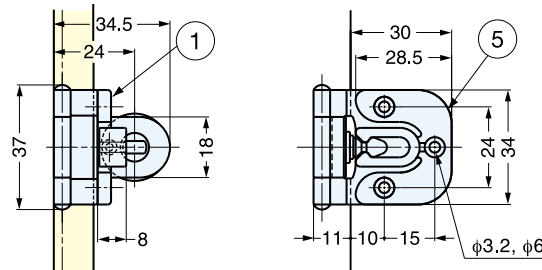
GHC-34/8/PB



Cut Out Dimension

- Hinge will hold door in closed position without secondary support.
- Door thickness: 4-6 mm
- Door size: Max. W450 x H700 x t5mm
- Door weight: Max. 4kg/pair (8.8 lbs/pair)

No.	Part Name	Material	Finish	
①	Body	GHC-34/8/BLK	304 Stainless Steel	Black
		GHC-34/8/CR	Steel	Chrome
		GHC-34/8/PB	Steel	Polished Brass
②	Plate	GHC-34/8/BLK	Aluminum	Black
		GHC-34/8/CR	Brass	Chrome
		GHC-34/8/PB		Polished Brass
③	Washer	Chloroethylene	Clear	
④	Screw	Steel	Nickle	
⑤	Catch	Polyacetal	Black	



Glass Thickness	A	Overlay
4 (5/32")	19	8
5 (3/16")	18	7
6 (15/64")	18	6

Item No.	D ₁	D ₂	d	T	Weight (g)	Screw	Box (pcs)	Carton (pcs)
GHC-34/8/CR	20	6.5	7	2	36	M3.5 x 6	40	600
GHC-34/8/PB	20	6.5	7	2	36	M3.5 x 6	40	600
GHC-34/8/BLK	21	8	8.5	3	32	M3 x 6	40	600

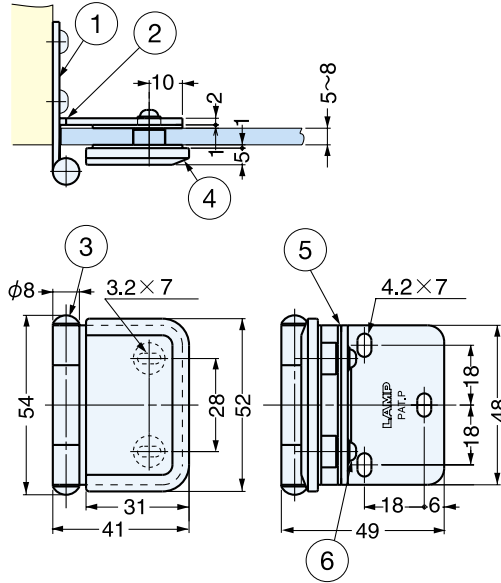
INSET GLASS DOOR HINGE



GH-48/0/SS

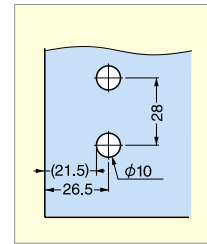


PAT.P



- Medium size hinge for glass/acrylic doors.
- Door thickness: 5~8 mm
- Door size: Max. W650 x H900 x t8mm
- Door weight: Max. 12kg/pair (26.4 lbs/pair)

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Mirror
②	Arm		Plain, Mirror
③	Hinge Pin		
④	Plate	Zinc Alloy	Chrome
⑤	Pad	Polyethylene	Natural
⑥	Screw	304 Stainless Steel	-



Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-48/0/SS	129	10	100

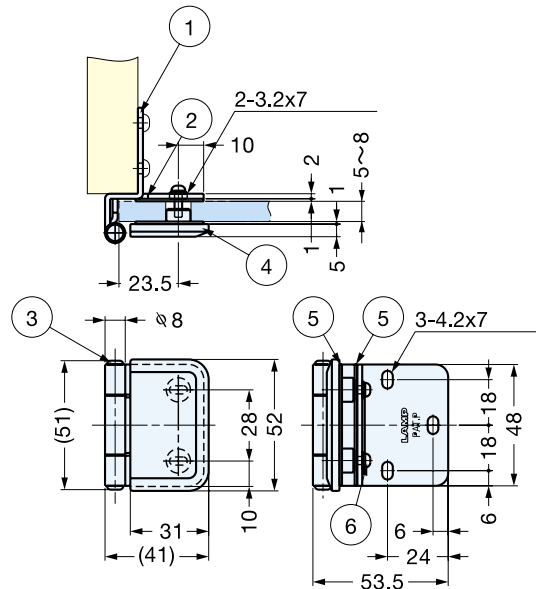
HALF OVERLAY GLASS DOOR HINGE



GH-48/8/SS

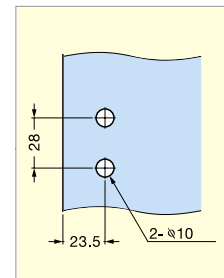


PAT.P



- Half overlay Medium size hinge for glass/acrylic doors.
- Door thickness: 5~8 mm
- Door size: Max. W650 x H900 x t8mm
- Door weight: Max. 12kg/pair (26.4 lbs/pair)

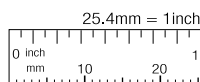
No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Mirror
②	Arm		Plain, Mirror
③	Hinge Pin		
④	Plate	Zinc Alloy	Chrome
⑤	Pad	Polyethylene	Natural
⑥	Screw	304 Stainless Steel	-



Cut Out Dimension

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
GH-48/8/SS	129	10	100

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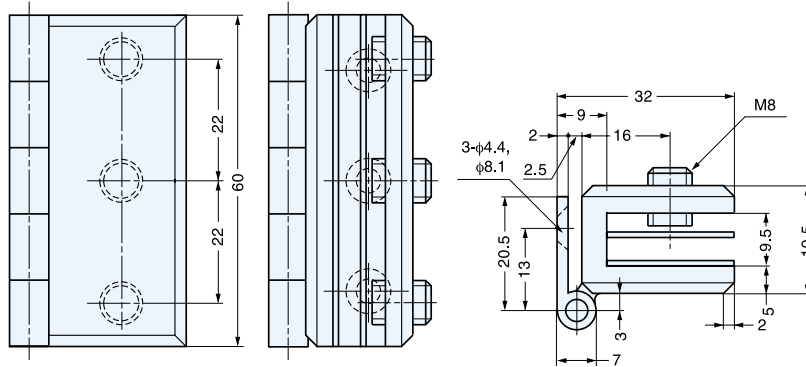
GLASS DOOR HINGE



XL-GH01-600

- Pre-hole not required on glass/acrylic.
- Door thickness: 4-8 mm
- Door size: Max. W450 x H1300mm

Material	Finish
304 Stainless Steel	Polished



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
XL-GH01-600	180	10	50

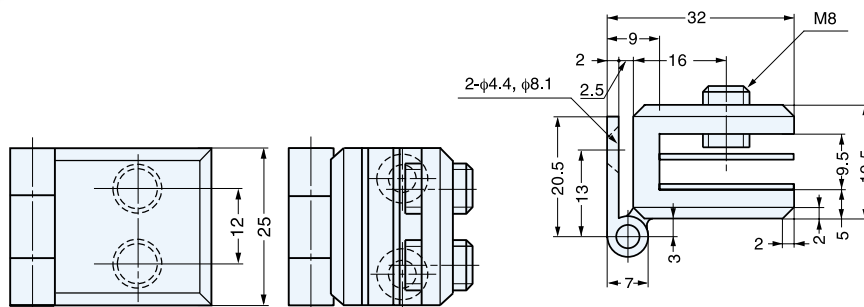
GLASS DOOR HINGE



XL-GH01-250

- Pre-hole not required on glass/acrylic.
- Door thickness: 4-8 mm
- Door size: Max. W400 x H600mm

Material	Finish
304 Stainless Steel	Polished



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
XL-GH01-250	76	10	100

CONCEALED HINGE (W/STAY)



YS-65-C

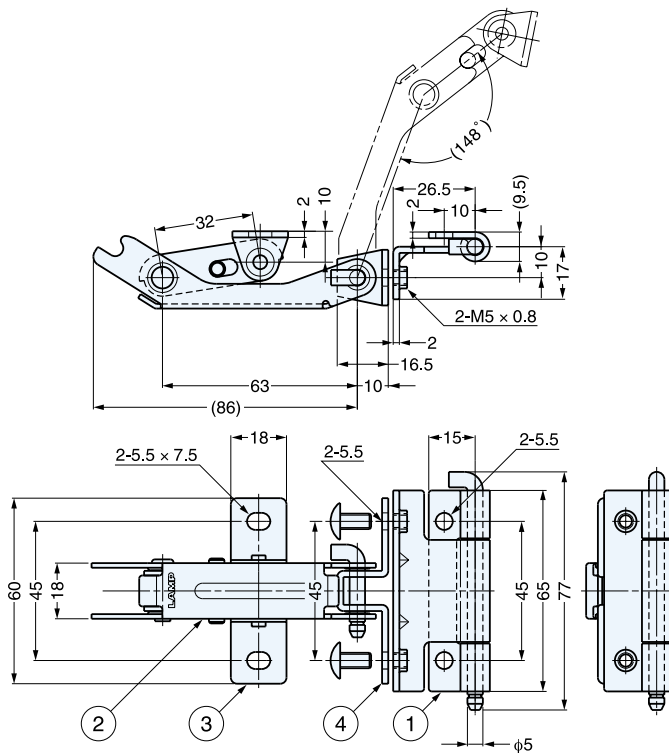


PAT

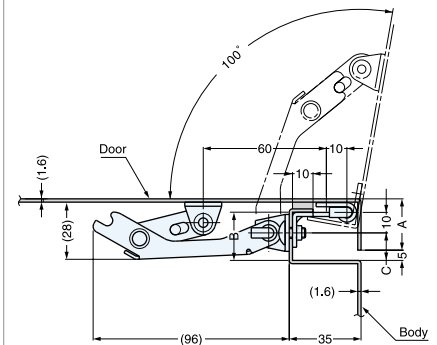
- Combination of hinge and stay.
- Stay holds door at 100° open position.
- Pin allows for easy door installation/removal.
- Holding force: 30 kgf-cm/piece (26 lbs-in/piece)
- Door weight: Max. 10kg/pair (22 lbs/pair)

No.	Part Name	Material	Finish
①	Hinge	304 Stainless Steel	Polished
②	Stay		
③	Bracket		
④	Hinge Bracket		

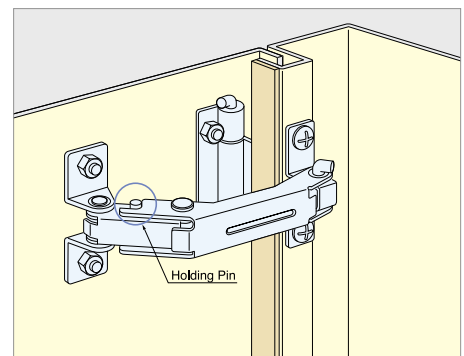
*Ring retainer not included.



Preparation



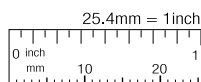
A	B	C
20	19	8.5
21	20	9.5
22	21	10.5
23	22	11.5
24	23	12.5
25	24	13.5



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
YS-65-C	190	10	100

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CONCEALED HINGE (SNAP-ON)



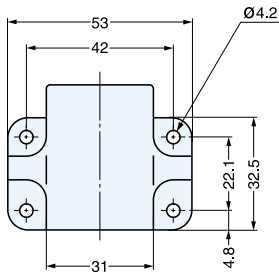
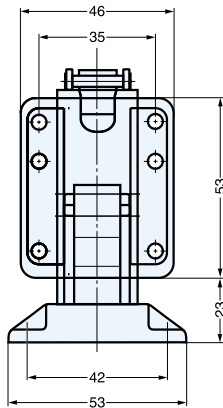
HT-160THV2



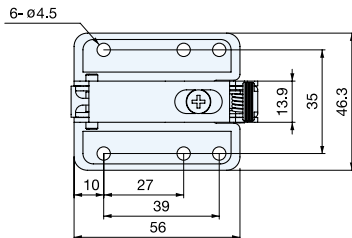
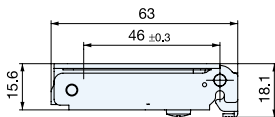
- 95° opening concealed hinge.
- Door opens without interfering side cabinets.
- Ideal when 2 doors are close together.
- Snap-on feature allows easy door installation/removal.

Item No.	Part Name	Material	Finish
HT-160THV2	Plate	Zinc Alloy	Nickel
	Body	Steel	
	Spacer	Polyacetal	-

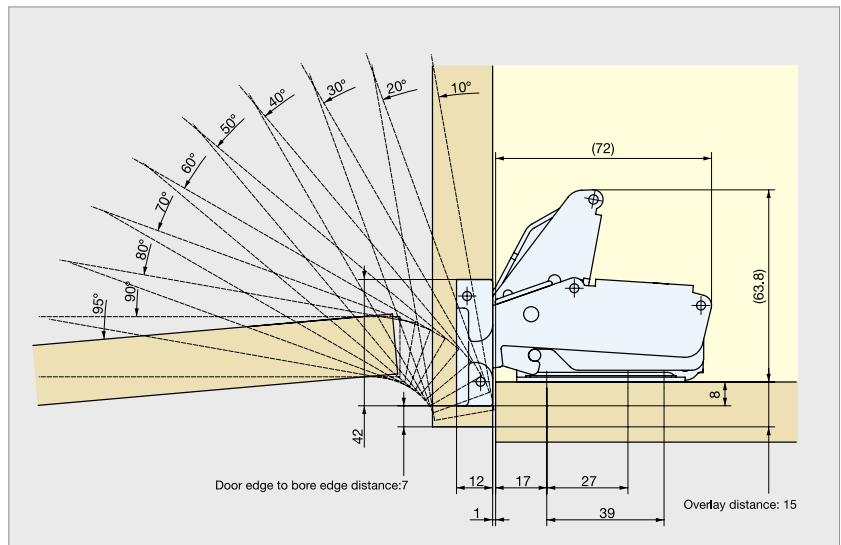
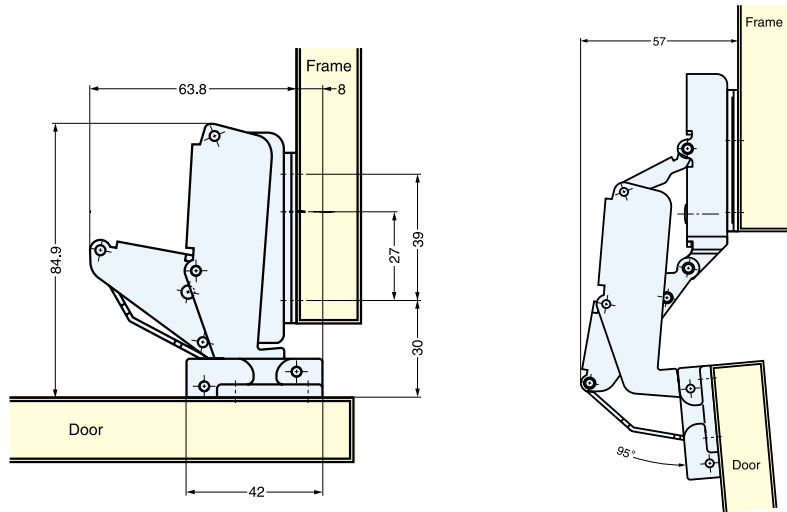
Item No.	Material	Finish
HT-160TZ	Steel	Nickel



HT-160THV2



HT-160TZ (Mounting Plate)



Item No.	Weight (g)	Carton (pcs)
HT-160THV2	205	100
HT-160TZ	68	200

CONCEALED HINGE (SNAP-ON)



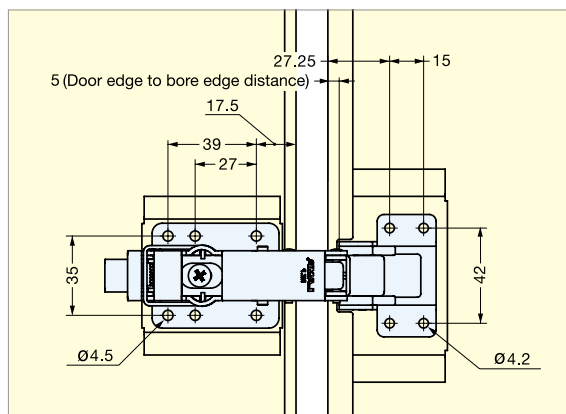
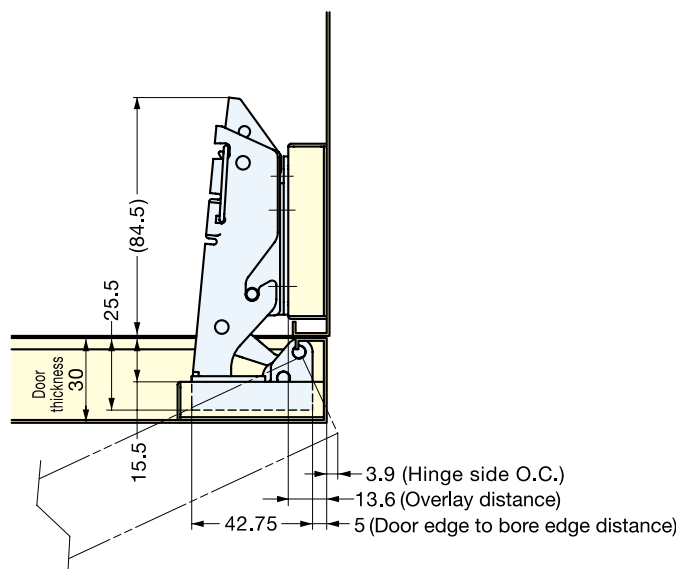
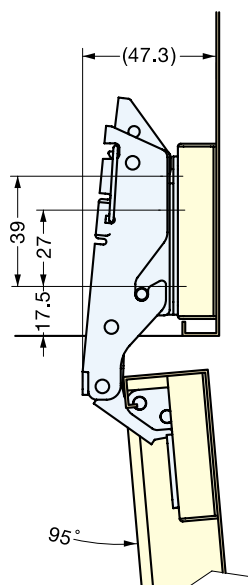
H95TS



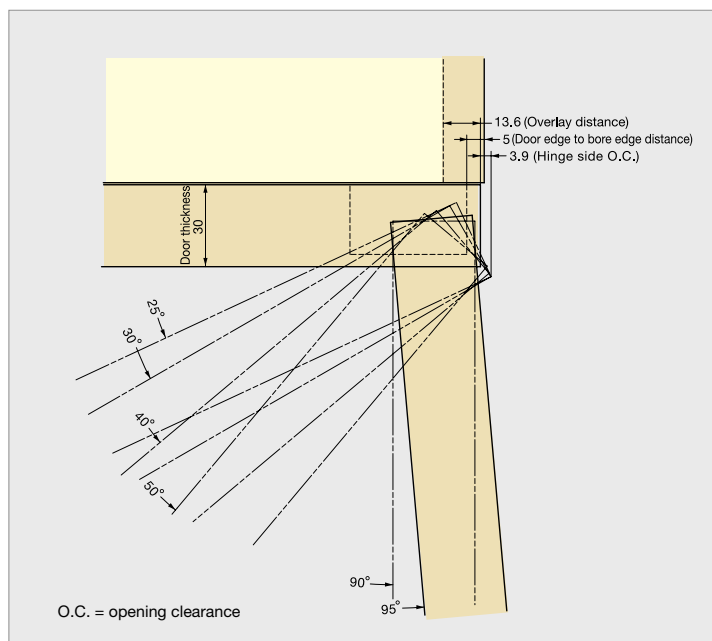
- 95° opening concealed hinge.
- Snap-on feature allows easy door installation/removal.
- Safety lock feature.
- Door opens without interfering side cabinets.
- Ideal when 2 doors are close together.

Item No.	Part Name	Material	Finish
H95TSH	Body	Steel	Nickel
H95TSZ	Mounting Plate		

PAT

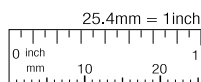


Installation



Item No.	Weight (g)	Carton (pcs)
H95TSH	149	100
H95TSZ	94	100

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CONCEALED HINGE (19mm OVERLAY)



304B-46/19, C46/19



PAT

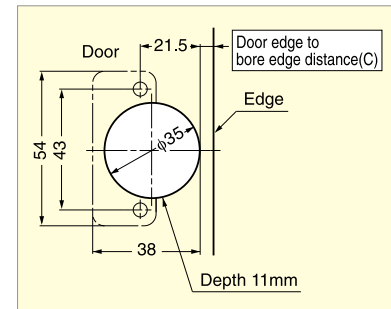
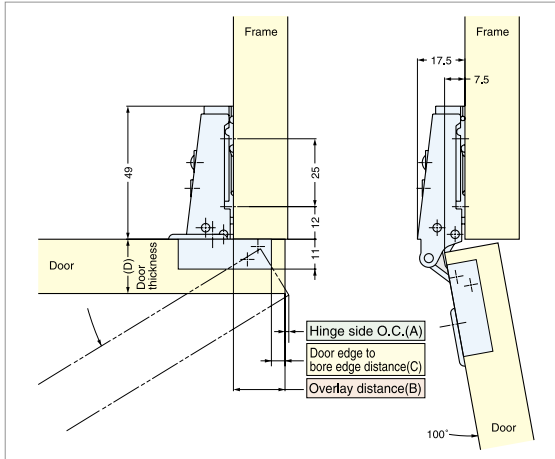
Material	Finish
304 Stainless Steel	Polished

■ Door edge to bore edge distance (C) and Overlay distance (B) Table 1.

Door edge to bore edge distance (C)	3	4	5
Overlay distance (B)	17	18	19

■ Hinge side opening clearance chart Table 2.

Door thickness (D)	Door edge to bore edge distance (C)		
	3	4	5
15	0.5	0.5	0.5
16	0.7	0.7	0.7
17	0.8	0.8	0.8
18	1.0	1.0	1.0
19	1.2	1.2	1.2
20	1.4	1.4	1.4
Hinge side O.C. (A)			



Bore Dimensions

Item No.	Type	Weight (g)	Carton (pcs)
304B- 46/19	Free Swinging	60	200
304B- C46/19	Self-Closing		

CONCEALED HINGE (14mm OVERLAY)



304B-46/14, C46/14



PAT

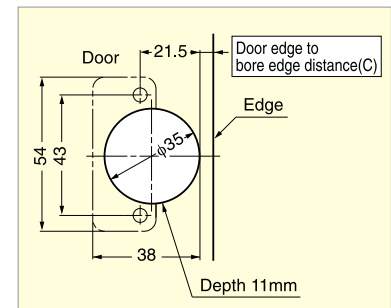
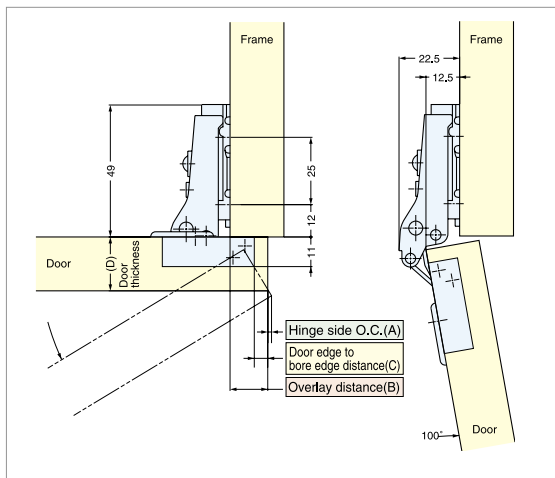
Material	Finish
304 Stainless Steel	Polished

■ Door edge to bore edge distance (C) and Overlay distance (B) Table 1.

Door edge to bore edge distance (C)	3	4	5
Overlay distance (B)	12	13	14

■ Hinge side opening clearance chart Table 2.

Door thickness (D)	Door edge to bore edge distance (C)		
	3	4	5
15	0.5	0.5	0.5
16	0.7	0.7	0.7
17	0.8	0.8	0.8
18	1.0	1.0	1.0
19	1.2	1.2	1.2
20	1.4	1.4	1.4
Hinge side O.C. (A)			



Bore Dimensions

Item No.	Type	Weight (g)	Carton (pcs)
304B- 46/14	Free Swinging	60	200
304B- C46/14	Self-Closing		

CONCEALED HINGE (9mm OVERLAY)

STAINLESS
304
STEEL

304B-46/9, C46/9



PAT

Material	Finish
304 Stainless Steel	Polished

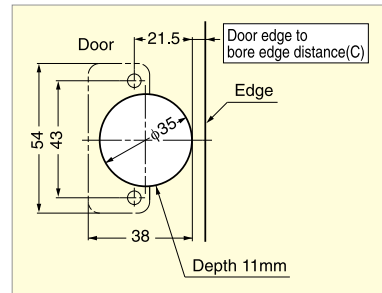
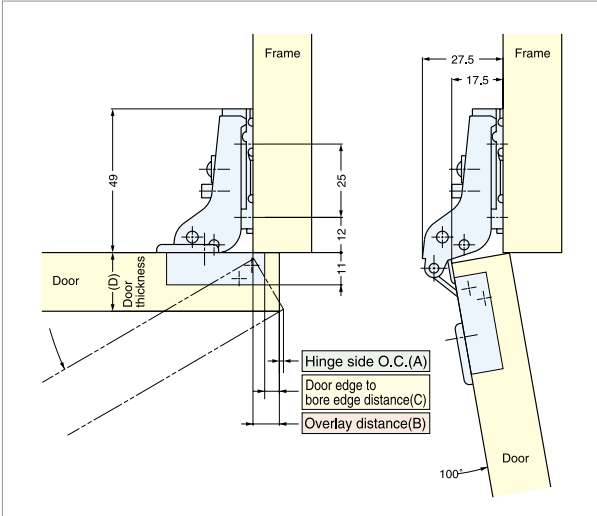
■ Door edge to bore edge distance (C) and Overlay distance (B) Table 1.

Door edge to bore edge distance (C)	3	4	5
Overlay distance (B)	7	8	9

■ Hinge side opening clearance chart Table 2.

Door thickness (D)	Door edge to bore edge distance (C)		
	3	4	5
15	0.5	0.5	0.5
16	0.7	0.7	0.7
17	0.8	0.8	0.8
18	1.0	1.0	1.0
19	1.2	1.2	1.2
20	1.4	1.4	1.4

Hinge side O.C. (A)



Bore Dimensions

Item No.	Type	Weight (g)	Carton(pcs)
304B- 46/9	Free Swinging	60	200
304B- C46/9	Self-Closing		

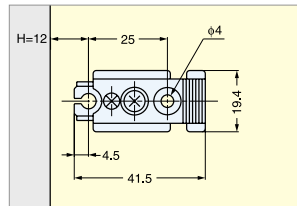
MOUNTING PLATE

STAINLESS
304
STEEL

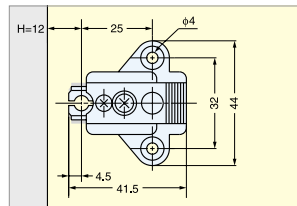
304B-P3A, P4A/32, P4A/32-3W



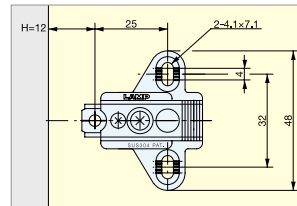
304B-P3A



304B-P4A/32



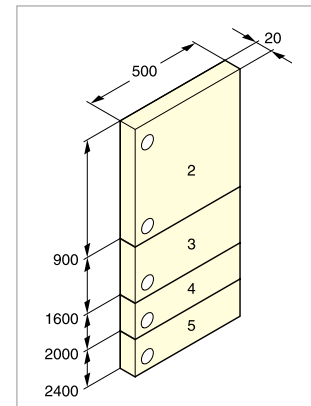
304B-P4A/32-3W



Installation

• Mounting plate for 304B hinges.

Material	Finish
304 Stainless Steel	Polished



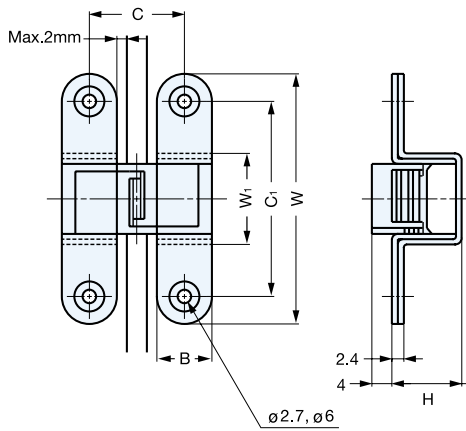
Number of hinges required.

Item No.	Weight (g)	Carton (pcs)
304B- P3A	40	400
304B- P4A/32		400
304B- P4A/32-3W		400

CONCEALED HINGE

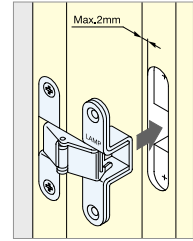


RK-50



- Door size: Max. W450 x H700 x t21 mm (W 17-23/32" x H 27-9/16" x t 53/64")
- Door weight: Max. 2.6 kg/pair (5.7 lbs/pair)

Material	Finish
304 Stainless Steel	Satin



Installation

Item No.	W	B	C	C ₁	H	W ₁	Weight (g)	Box (pcs)	Carton (pcs)
RK-50	50 (1-32/32")	11 (7/16")	19 (3/4")	38 (1-1/2")	14 (35/64")	18.2 (23/32")	28	24	240

CONCEALED HINGE



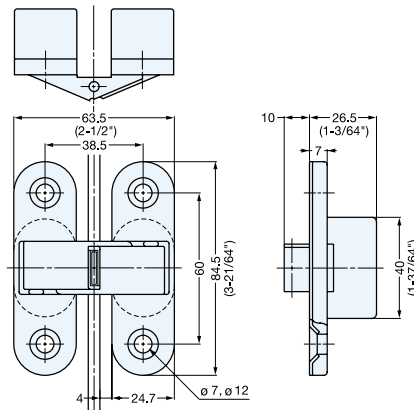
I-66, I-90



I-66

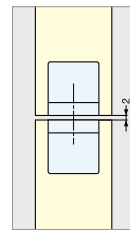
I-66

*Distance between door edge and hinge must be less than 4 mm.



- Door weight:
I-60 Max. 30kg/pair (66 lbs/pair)
Max. 50kg/3pcs (110lbs/3pcs)
I-90 Max. 40kg/pair (88 lbs/pair)
Max. 60kg/3pcs (132lbs/3pcs)

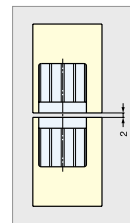
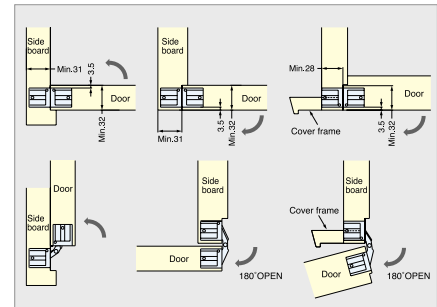
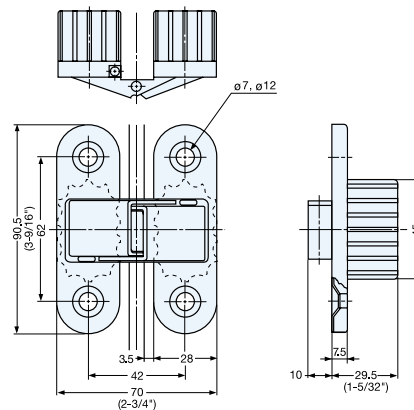
Part Name	Material	Finish
Plate & Arm	304 Stainless Steel	Satin
Body	Polyamide	White (I-60), Brown (I-90)



I-90

I-90

*Distance between door edge and hinge must be less than 3.5 mm.



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
I-66	100	24	240
I-90	115	24	240

CONCEALED HINGE

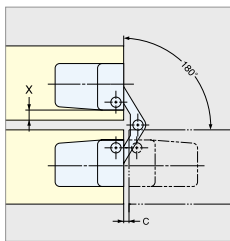
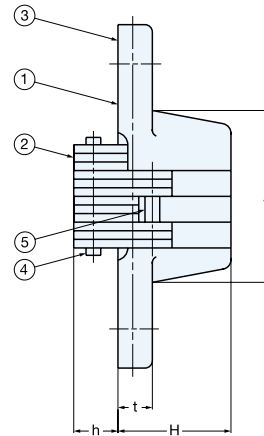
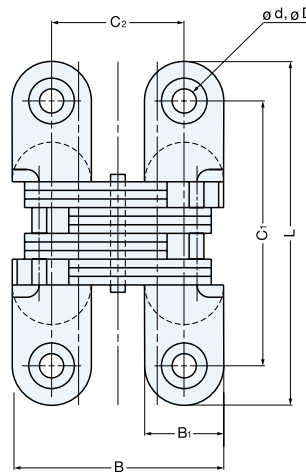


R SERIES



• Door size: Max. W450 x H700 x t21mm
(W17-23/32" x H27-9/16" x t53/64")

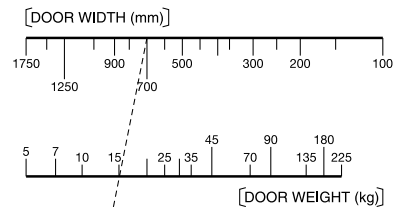
No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Satin Chrome
②	Link Arm	304 Stainless Steel	Plain
③	Pin A	R-43~70, 303 Stainless Steel	
④	Pin B	R-100, Steel	
⑤	Pin C	303 Stainless Steel	
		R-43~70, 303 Stainless Steel	
		R-100, Steel	



Distance between door edge and hinge must be less than the figures shown in column "X" of the dimension table below.

To determine the number of hinges required for each door:

- Using the chart to the right, locate the correct door width (upper scale) and door weight (lower scale). Draw a line connecting these 2 points to the chart below (point "a"). Then draw a vertical line through the lower chart to find the number and type of hinges required.
- Check door thickness requirements.



Item No.	No. of Hinges (pcs)
R- 43	3
R- 45	3
R- 60	3
R- 70	2
R-100	2

[In case of door width, 700mm and door weight, 15kg]

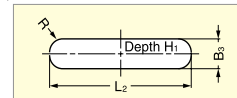
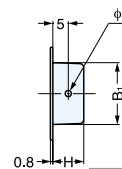
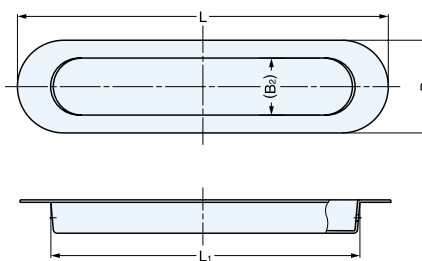
Item No.	Required Number Of Hinges (pcs)				"a"	Min. Door Thickness
R-43	2	3	4			13mm
R-45	2	3	4			19mm
R-60	2	3	4			19mm
R-70	2	3	4			25mm
R-100	2	3	4			29mm

Item No.	L	L1	B	B1	C1	C2	H	h	t	D	d	C	X	Arm (qty)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
R- 43	43 (1-11/16")	22	29 (1-9/64")	11	32	18	13	(5)	5	6.2	3.5	0.8	2.3	12	37	30	300	3.1 ×16
R- 45	45 (1-25/32")	19	35.7(1-13/32")	13	32	22.7	18.5	(6)	5	7	3.5	0.8	3	8	56	20	200	3.1 ×20
R- 60	60 (2-23/64")	33	35.2(1-25/64")	13	47	22.2	18.5	(6.5)	6.5	8.3	4.3	1	3	12	94	10	100	3.5 ×20
R- 70	70 (2-3/4")	35	42.6(1-43/64")	16.1	53	26.6	23	(9)	7	9.1	4.6	1.2	3.5	12	157	10	100	4 ×25
R-100	100 (3-15/16")	52	53.2 (2-3/32")	20	80	33.2	27.5	(9.5)	9.5	10	5.3	1.8	4.8	16	342	10	60	4.5 ×32

RECESSED PULL



HN



Bore Dimensions

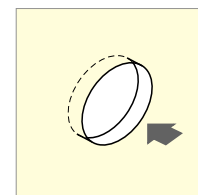
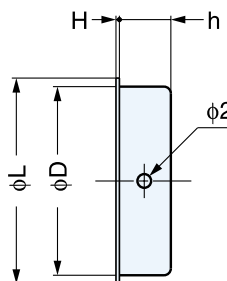
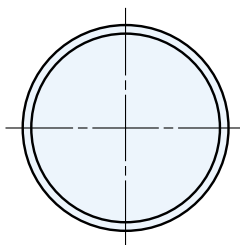
Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	H	B	B ₁	B ₂	L ₂	B ₃	H ₁	Weight (g)	Box (pcs)	Carton (pcs)
HN-120SH	120 (4-23/32")	100	10	30 (1-3/16")	20	18.5	100.5	20.5	10.5	19	50	500
HN-150SH	150 (5-29/32")	130	12	35 (1-3/8")	26	24.5	130.5	26.5	12.5	27	20	200
HN-200SH	200 (7-7/8")	170	13.2	50 (1-31/32")	36	34.5	170.5	36.5	13.7	50	10	100
HN-250SH	250 (9-27/32")	220	13.2	50 (1-31/32")	36	34.5	220.5	36.5	13.7	92	10	100

RECESSED PULL



RP



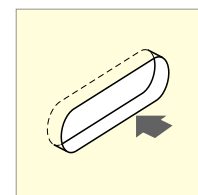
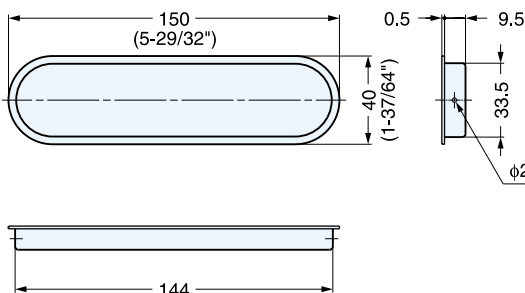
Installation

Item No.	L	H	h	D	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
RP-30	30 (1-3/16")	0.5	7.5	27.5	4	100	3600	304 Stainless Steel	Satin
RP-37	36 (1-27/64")	0.5	8.5	31.5	6	100	3600		
RP-45	46 (1-13/16")	0.5	8.5	41	9.5	100	2400		
RP-60	60 (2-23/64")	0.5	9.5	53.5	15	50	1200		
RP-80	80 (3-5/32")	0.5	9.5	71	25.5	25	500		

RECESSED PULL



OP-150



Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
OP-150	30	30	720	304 Stainless Steel	Satin

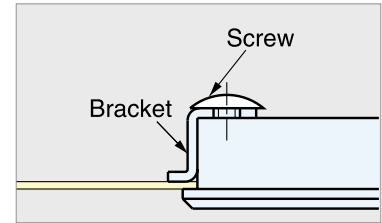
TRUNK HANDLE



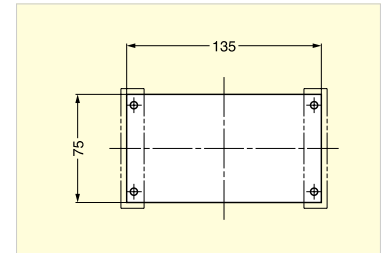
MUD-140



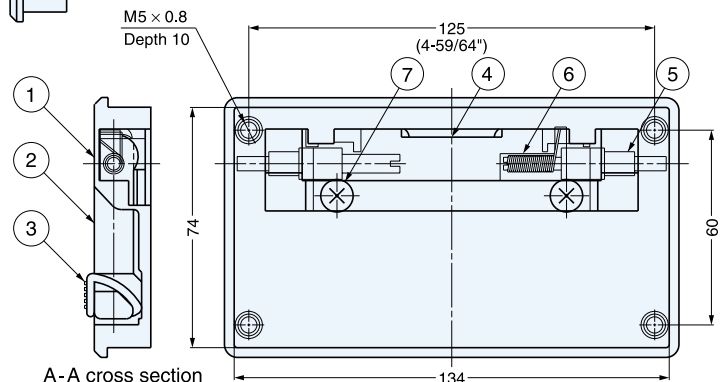
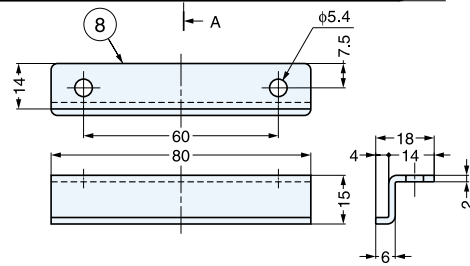
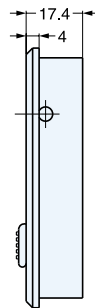
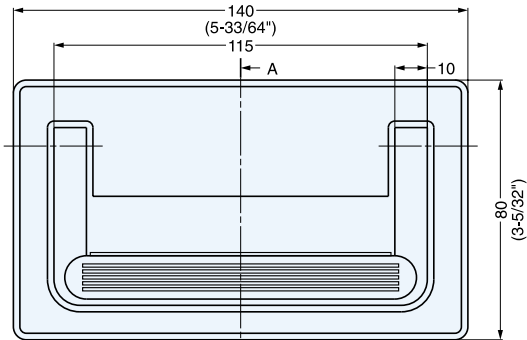
PAT



Installation



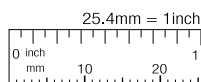
Cut Out Dimensions



A-A cross section

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
MUD-140	30 (66 lbs)	620	5	20

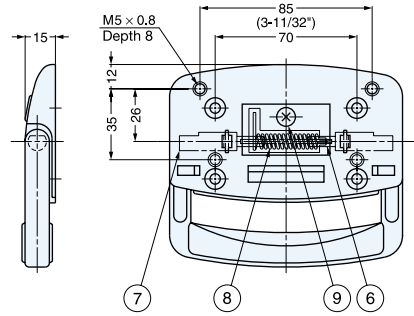
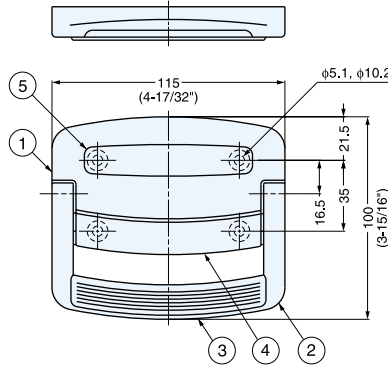
No.	Part Name	Material	Finish / Color
①	Body	Zinc Alloy	Chrome
②	Handle		
③	Grip	Synthetic Rubber	Black
④	Back Case	Steel	Yellow Zinc Chromate
⑤	Shaft	Zinc Alloy	
⑥	Spring	Steel	
⑦	Screw		
⑧	Bracket		



TRUNK HANDLE



TMU-115



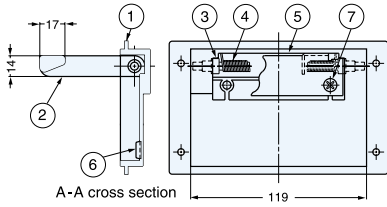
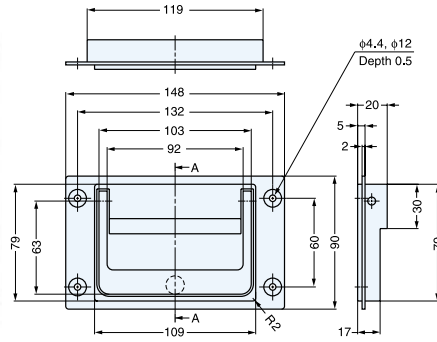
Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
TMU-115	40 (80 lbs)	460	10	40

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Chrome
②	Handle		
③	Grip	Synthetic Rubber	Black
④	Case Cover 1		
⑤	Case Cover 2		
⑥	Back Case	Steel	Yellow Zinc Chromate
⑦	Shaft	Zinc Alloy	
⑧	Spring	Steel	
⑨	Screw	Steel	Yellow Zinc Chromate

TRUNK HANDLE

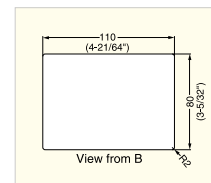


PT-148

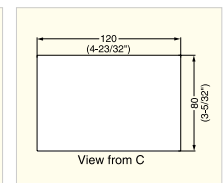


Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)
PT-148	50 (110 lbs)	645	10

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Grey
②	Handle		
③	Shaft	Steel	Yellow Zinc Chromate
④	Spring		
⑤	Back Case		
⑥	Bumper	Synthetic Rubber	Clear
⑦	Screw	Steel	Chromate



Cut Out Dimensions for back mount

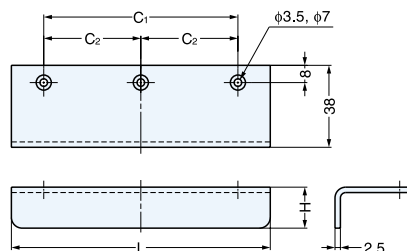


Cut Out Dimensions for surface mount

PULL



SN



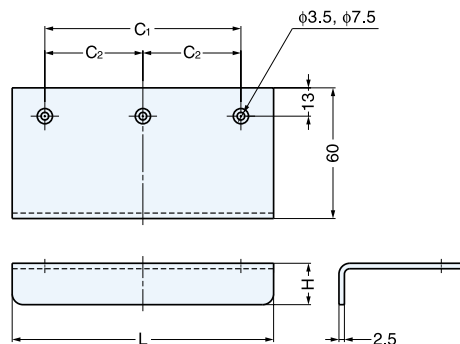
Material	Finish
304 Stainless Steel	Mirror (M) Satin (S)

Item No.		L	C ₁	C ₂	H	Hole	Weight (g)	Box (pcs)	Carton (pcs)
SN- 50/M	SN- 50/S	50 (1-31/32")	30	-	17	2	47	40	400
SN- 70/M	SN- 70/S	70 (2-3/4")	46	-	17	2	65	30	300
SN- 95/M	SN- 95/S	95 (3-47/64")	65	-	18	2	90	20	200
SN-120/M	SN-120/S	120 (4-23/32")	90	45	19	3	112	20	200
SN-150/M	SN-150/S	150 (5-29/32")	114	57	19	3	147	15	150

PULL



SND



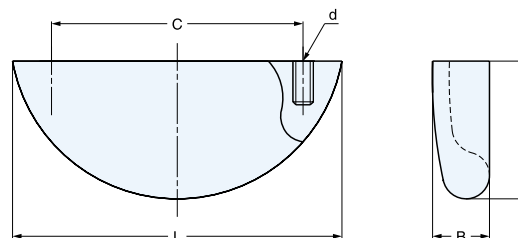
Material	Finish
304 Stainless Steel	Mirror

Item No.	L	C ₁	C ₂	H	Weight (g)	Box (pcs)	Carton (pcs)
SND- 50/M	50 (1-31/32")	30	-	17	67	10	200
SND- 70/M	70 (2-3/4")	46	-	17	95	10	200
SND- 95/M	95 (3-47/64")	65	-	18	130	5	100
SND-120/M	120 (4-23/32")	90	45	19	166	5	50
SND-150/M	150 (5-29/32")	114	57	19	208	5	50

PULL



RD-55, 90



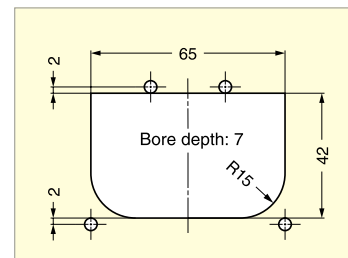
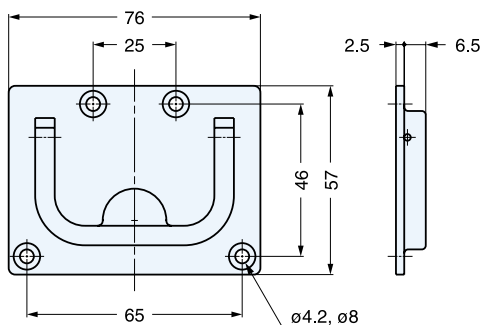
Material	Finish
316 Stainless Steel	Mirror

Item No.	L	C	H	B	d	Weight (g)	Box (pcs)	Carton (pcs)
RD-55/SM	55	42 (1-21/32")	23	9.5	M4x0.7	50	30	360
RD-90/SM	90	74 (2-29/32")	25.5	10.5	M4x0.7	80	20	240

RING PULL

STAINLESS
316
STEEL

26700



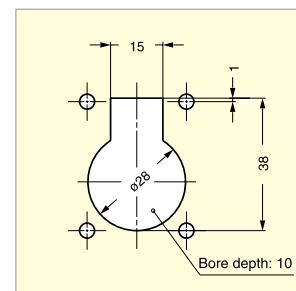
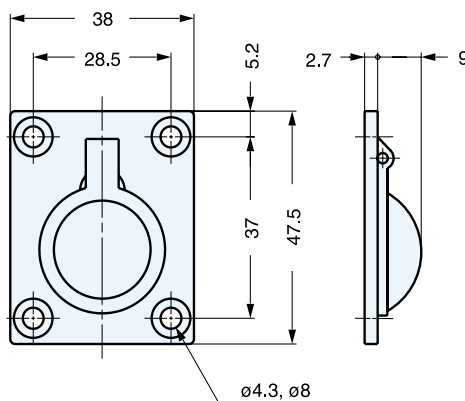
Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
26700	120	20	100	316 Stainless Steel	Polished

RING PULL

STAINLESS
316
STEEL

26900



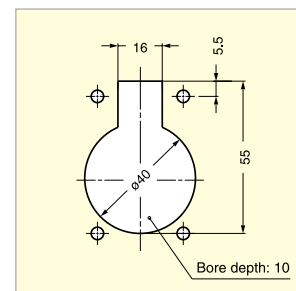
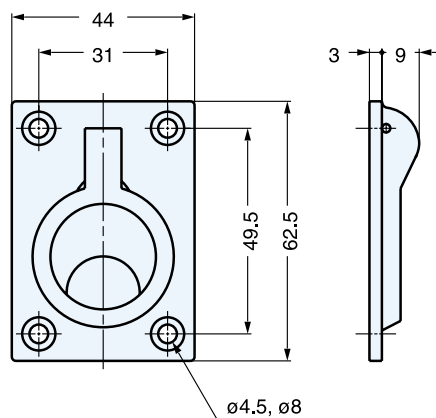
Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
26900	45	20	100	316 Stainless Steel	Polished

RING PULL

STAINLESS
316
STEEL

26901



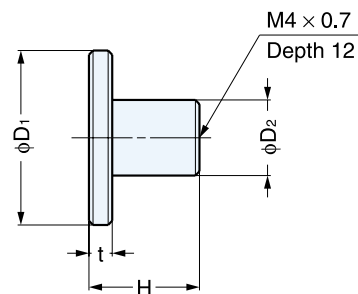
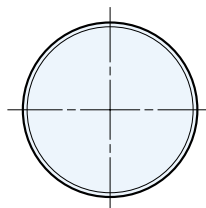
Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
26901	85	20	100	316 Stainless Steel	Polished

KNOB



A SERIES



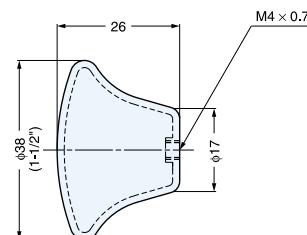
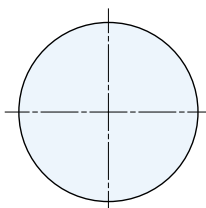
Material	Finish
Aluminum	Alumite

Item No.	D ₁	H	D ₂	t	Weight (g)	Box (pcs)	Carton (pcs)
A-861	20 (25/32")	18	10	4	5	48	1152
A-862	25 (63/64")	18.5	11	4.5	8.5	48	1152
A-863	30 (1-3/16")	19	12	5	15	48	1152
A-864	35 (1-3/8")	19	13	5	16.5	24	576

KNOB



RS-38



Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
RS-38/S	20	20	200	304 Stainless Steel	Satin (S)

KNOB



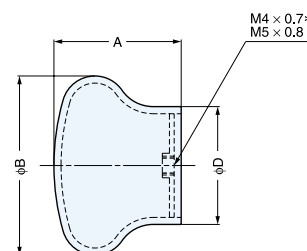
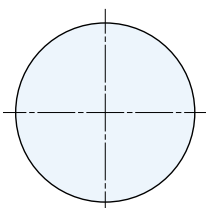
RSS



Satin

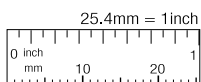


Mirror



Material	Finish
304 Stainless Steel	Mirror (M) Satin (S)

Item No.	A	B	D	Weight (g)	Box (pcs)	Carton (pcs)	Screw
RSS-25/M* RSS-25/S*	22	25 (63/64")	18	8.5	20	200	M4x30
RSS-30/M* RSS-30/S*	23	30 (1-3/16")	20	11	20	200	M4x30
RSS-38/M RSS-38/S	27	38 (1-1/2")	25	16	20	200	M5x30
RSS-50/M RSS-50/S	34	50 (1-31/32")	35	30	20	200	M5x30



PUSH KNOB



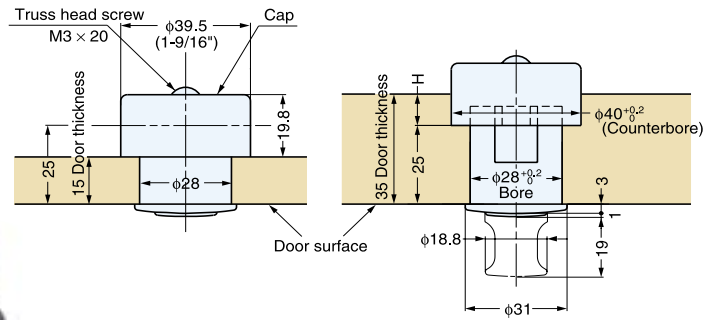
PK-03



BN

CR

GA



Material	Finish / Color
Zinc Alloy	Black Nickel (BN)
	Chrome (CR)
	Gold (GA)
ABS	Black

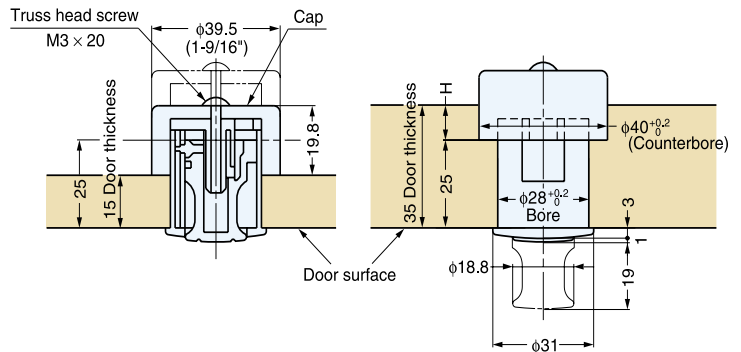
Item No.	Finish	Weight (g)	Box (pcs)	Carton (pcs)
PK-03/GA	Gold	67	20	200
PK-03/CR	Chrome	67	20	200
PK-03/BN	Black Nickel	67	20	200

Door Thickness	H (Counterbore)
15 - 25 mm	None
26 - 35 mm	H=Door Thickness-25 @ ø 40mm

PUSH KNOB



PKP-04



Material	Color
ABS	White (WHT)
	Black (BLK)

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
PKP-04/WHT	46	20	200
PKP-04/BLK	46	20	200

Door Thickness	H (Counterbore)
15 - 25 mm	None
26 - 35 mm	H=Door Thickness-25 @ ø 40mm

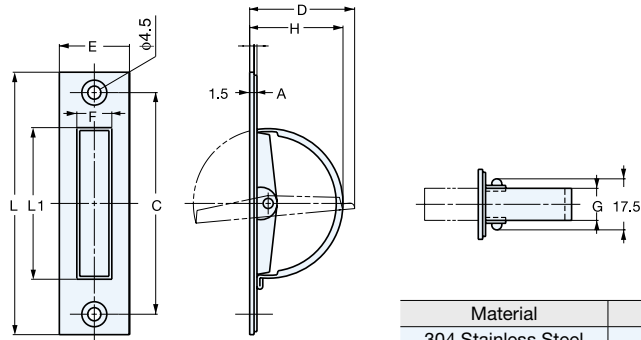
HATCH PULL



HR-90, 110, 135



HR-135



Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	C	H	D	A	E	F	G	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)	Screw
HR- 90	90 (3-35/64")	52	76	32	36	1	24	12	11	13 (28 lbs)	49	30	300	3.5x22
HR-110	110 (4-21/64")	64	94	38	42	1	24	12	11	10 (22 lbs)	59	20	200	3.5x25
HR-135	135 (5-5/16")	90	115	50	55	1.2	25	12.2	12	N/A	88	15	150	3.5x25

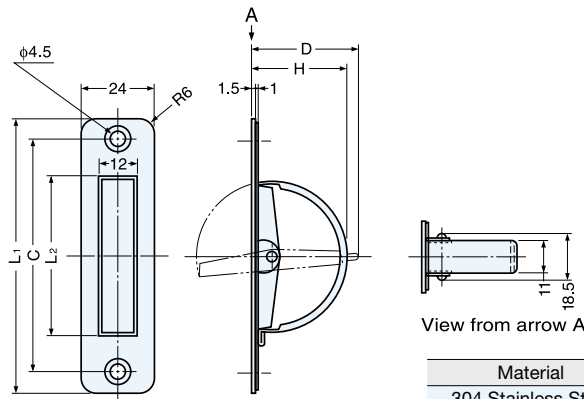
HATCH PULL



HR-90R, 110R



HR-110R



Material	Finish
304 Stainless Steel	Satin

Item No.	L ₁	L ₂	C	H	D	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
HR- 90R	90 (3-35/64")	52	76	32	36	13 (28 lbs)	46	30	300
HR-110R	110 (4-21/64")	64	94	38	42	10 (22 lbs)	55	20	200

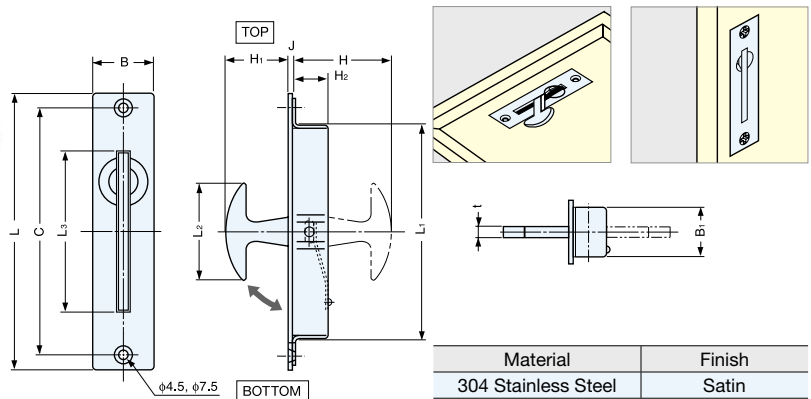
HATCH PULL



ST-90, 115

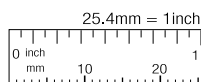


PAT



Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	L ₂	L ₃	H	H ₁	H ₂	J	B	B ₁	t	C	Weight (g)	Box (pcs)	Carton (pcs)	Screw
ST- 90	90 (3-35/64")	66.2	30.2	57	35.5	23.2	10.5	2.2	22	18.5	3.8	80	68	30	300	3.5x22
ST-115	115 (4-17/32")	86.2	40	67	42	26	13	2.5	25	20	4	102	102	20	200	3.5x25



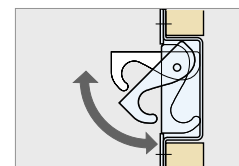
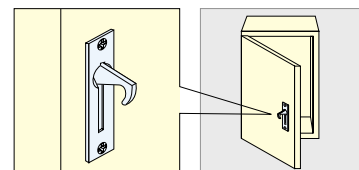
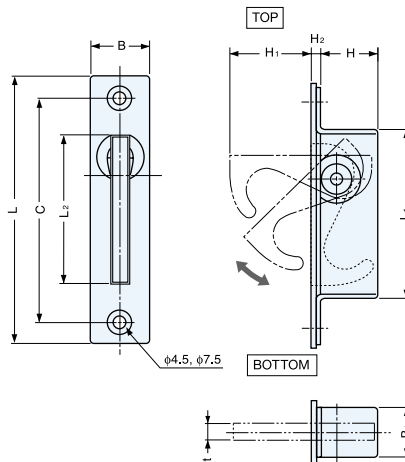
HATCH PULL



ST-80, 100



ST-100



Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	L ₂	H	H ₁	H ₂	B	B ₁	t	C	Weight (g)	Box (pcs)	Carton (pcs)	Screw
ST- 80	80 (3-9/64")	50	44	18	25	2	18	15	5	68	48	30	300	3.5x16
ST-100	100 (3-15/16")	63	54	21	32	2	20	15	5	85	66	20	200	3.5x20

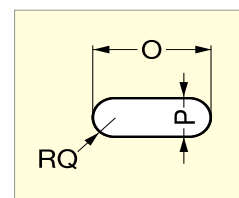
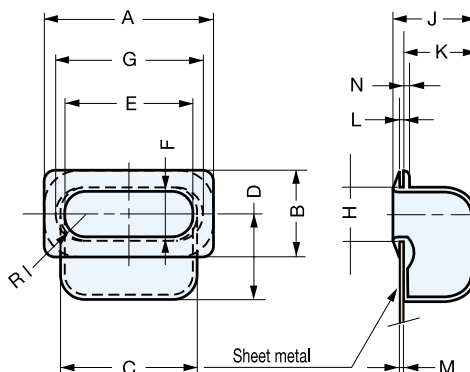
RECESSED PULL

HH-QTR



HH-QTR-K2 (BK)

HH-QTR-K1 (IV)



Cut Out Dimensions

- Snap-in type recessed pull.
- Elastomer pull ideal for medical application.

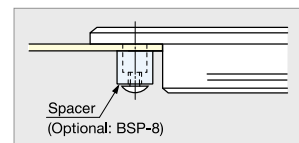
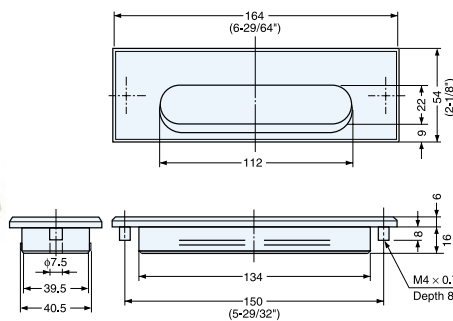
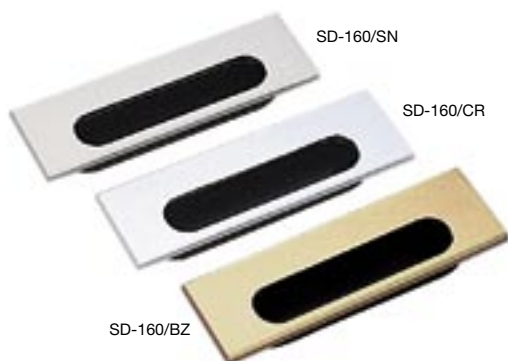
Material	Color
Elastomer	Black Ivory

Item No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Weight (g)	Box (pcs)	
HH-QTR-K 1 BK	HH-QTR-K 1 IV	120	58	96	47	92	30	105	38	19	43	35	6	2	5	106	39	19.5	95	150
HH-QTR-K 2 BK	HH-QTR-K 2 IV	82	42	66	42	62	22	72	26	13	37	35	3	2	3	73	27	13.5	46	300

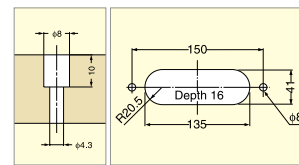
RECESSED PULL



SD-160



Sheet metal mounting application



Bore Dimensions

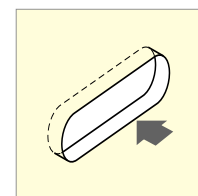
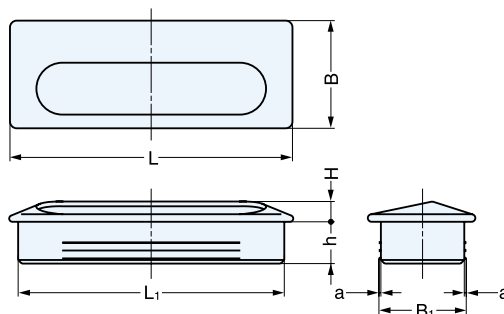
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
SD-160/CR	165	10	60
SD-160/SN	165	10	60
SD-160/BZ	165	10	60

Material	Finish / Color
Zinc Alloy	Chrome (CR) / Satin Nickel (SN) / Bronze (BZ)
Plastic	Black

RECESSED PULL



UT-75, 105, 140



Installation

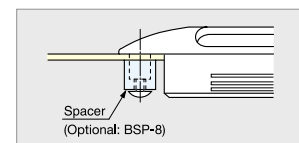
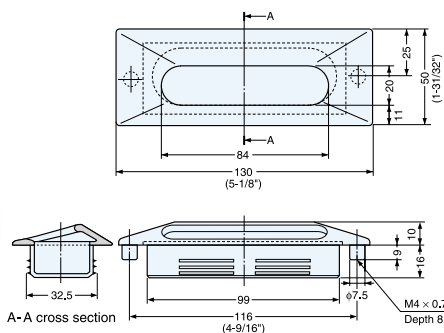
Item No.	L	L ₁	H	h	B	B ₁	a	Weight (g)	Box (pcs)	Carton (pcs)
UT- 75/S	75 (2-61/64")	71	7	15.5	36	30.8	0.4	15	40	400
UT-105/S	105 (4-1/8")	99	7.5	15.5	40	32.5	0.5	30	25	250
UT-140/S	140 (5-33/64")	134	7.5	15.5	47	40.5	0.5	45	15	150
UT-105/PB	105 (4-1/8")	99	7.5	15.5	40	32.5	0.5	30	25	250

Material	Finish / Color
304 Stainless Steel	Satin (S)
Brass (UT-105/PB only)	Brass (PB) / (UT-105/PB)
Plastic	Black

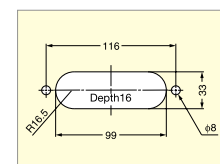
RECESSED PULL



UTZ-130



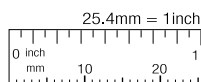
Sheet metal mounting application



Bore Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
UTZ-130/CR	105	10	60
UTZ-130/SN	105	10	60
UTZ-130/BZ	105	10	60

Material	Finish / Color
Zinc Alloy	Chrome (CR) / Satin Nickel (SN) / Bronze (BZ)
Plastic	Black



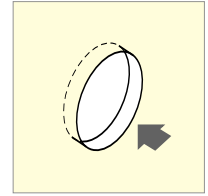
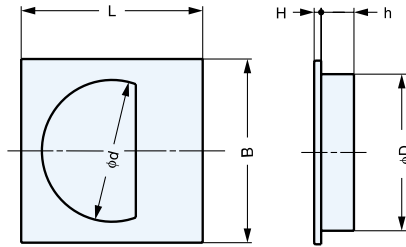
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RECESSED PULL



SP-35, 38, 48



Installation

Item No.	L	B	H	h	D	d	Weight (g)	Box (pcs)	Carton (pcs)
SP-35/S	44 (1-47/64")	44	2.2	9.8	35.1	31	10	100	1000
SP-38/S	47 (1-27/32")	47	2.2	10.3	37.6	34	11	60	1440
SP-48/S	57 (2-1/4")	57	2.2	10.3	48.6	44	16	50	1200
SP-35/PB	44 (1-47/64")	44	2.2	9.8	35.1	31	10	50	1000

Material	Finish / Color
304 Stainless Steel	Satin (S)
Brass (SP-35/PB only)	Brass (PB) / (SP-35/PB)
Plastic	Black

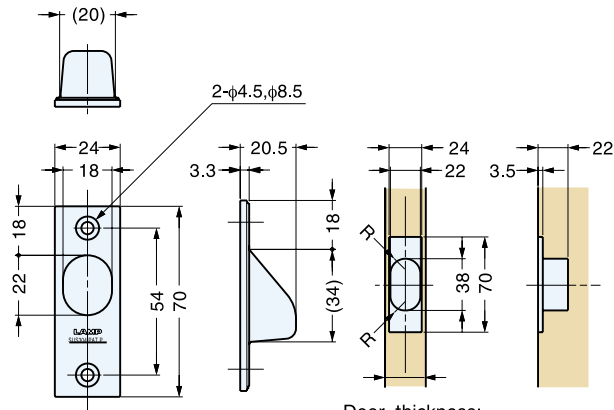
RECESSED PULL



YK-70



PAT



Door thickness:
min. 30 mm

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
YK-70	37	20	200

Material	Finish
304 Stainless Steel	Satin

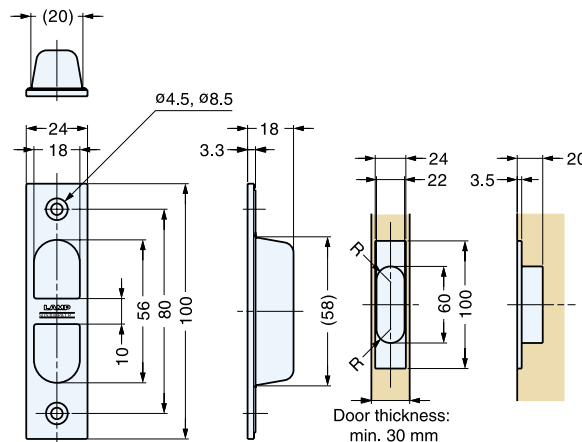
RECESSED PULL



YK-W100



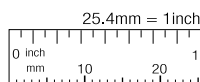
PAT



Door thickness:
min. 30 mm

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
YK-W100	45	20	160

Material	Finish
304 Stainless Steel	Satin



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HANDLES



RECESSED PULLS



TRUNK HANDLES



PULLS



KNOBS

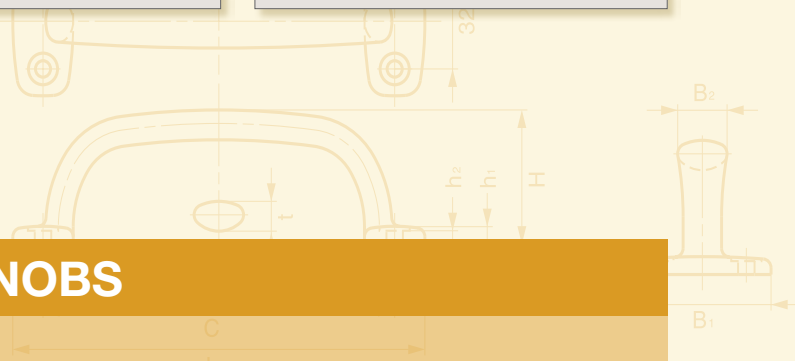


HATCH PULLS



HANDLES, PULLS & KNOBS

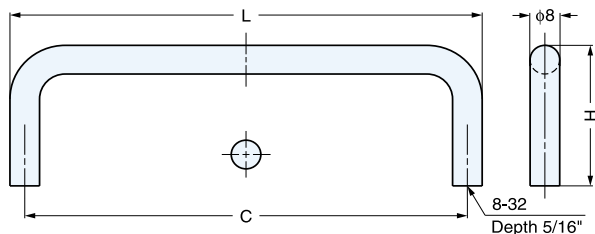
□ HANDLES	198
□ RECESSED PULLS	215
□ TRUNK HANDLES	223
□ PULLS	225
□ KNOBS	227
□ HATCH PULLS	229



WIRE PULL



SWP



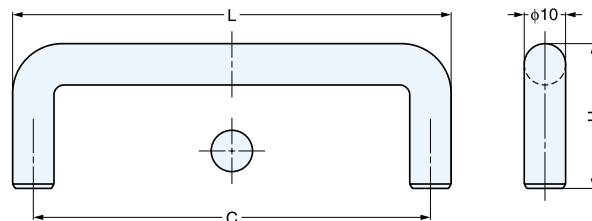
Item No.	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
SWP-630/S	84.2	76.2 (3")	34	71	20	200
SWP-635/S	96.9	88.9 (3-1/2")	34	78	20	200
SWP-640/S	109.6	101.6 (4")	34	85	20	200
SWP-696/S	104	96 (3-25/32")	34	81	20	200

Material	Finish
316 Stainless Steel	Satin

WIRE PULL



SWF



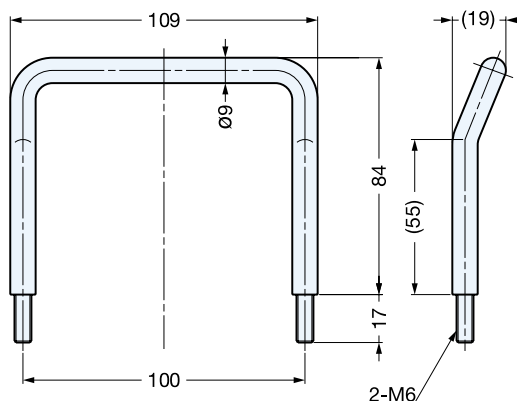
Item No.	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
SWF- 640	111	101.5 (4")	35	90	20	200
SWF- 650	136.5	127 (5")	35	110	20	200
SWF- 660	162	152.5 (6")	35	130	20	200
SWF- 690	238	228.5 (9")	35	200	20	200
SWF-6120	314.5	305 (12")	35	270	20	200

Material	Finish
316 Stainless Steel	Satin

WIRE PULL



H-75-BL-100



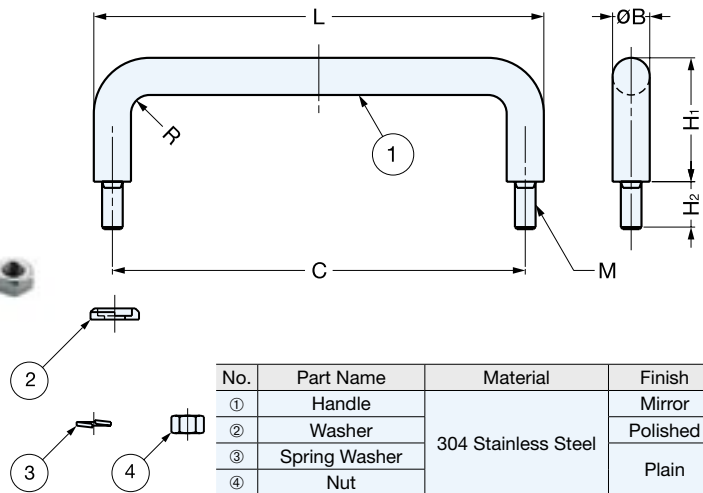
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
H-75-BL-100	130	80	-

Material	Finish
304 Stainless Steel	Mirror

WIRE PULL

STAINLESS
304
STEEL

H-42-B



No.	Part Name	Material	Finish
①	Handle	304 Stainless Steel	Mirror
②	Washer		Polished
③	Spring Washer		Plain
④	Nut		

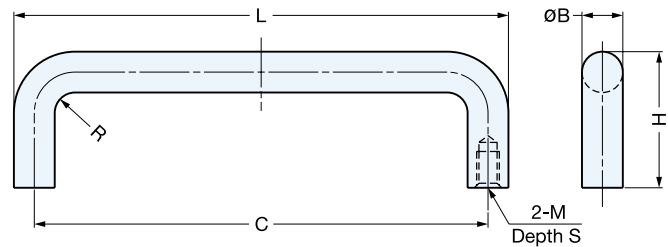
Item No.	L	H ₁	H ₂	B	C	R	M	Weight (g)	Box (pcs)	Carton (pcs)
H-42-B- 8	66	22	7	6	60	3	M4x0.7	20	100	500
H-42-B-14	86	30	10	6	80	3	M4x0.7	27	50	250
H-42-B- 1	75	30	11	7	68	3.5	M5x0.8	40	50	250
H-42-B- 2	109	30	11	9	100	4.5	M5x0.8	80	50	150
H-42-B- 3	120	40	11	10	110	5	M6x1	120	50	150
H-42-B- 4	130	40	11	10	120	5	M6x1	125	50	150
H-42-B-15	162	50	20	12	150	6	M8x1.25	235	30	60
H-42-B- 5	200	50	20	12	188	6	M8x1.25	270	30	60
H-42-B- 6	250	50	20	12	238	6	M8x1.25	320	20	40
H-42-B- 7	300	50	20	12	288	6	M8x1.25	365	20	40

WIRE PULL

NO SCREW

STAINLESS
304
STEEL

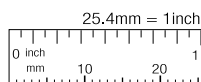
H-42-C



Material	Finish
304 Stainless Steel	Mirror

Item No.	L	H	øB	C	S	M	R	Weight (g)	Box (pcs)	Carton (pcs)
H-42-C- 8	66	22	6	60	7	M4x0.7	3	18	100	500
H-42-C-14	86	30	6	80	7	M4x0.7	3	25	50	250
H-42-C- 1	75	30	7	68	8	M5x0.8	3.5	30	50	250
H-42-C- 2	109	30	9	100	8	M5x0.8	4.5	65	50	150
H-42-C- 3	120	40	10	110	8	M6x1	5	100	50	150
H-42-C- 4	130	40	10	120	8	M6x1	5	105	50	150
H-42-C-15	162	50	12	150	10	M8x1.25	6	185	30	60
H-42-C- 5	200	50	12	188	10	M8x1.25	6	220	30	60
H-42-C- 6	250	50	12	238	10	M8x1.25	6	265	20	40
H-42-C- 7	300	50	12	288	10	M8x1.25	6	300	20	40

LAMP® LAMP BRAND by SUGATSUNE



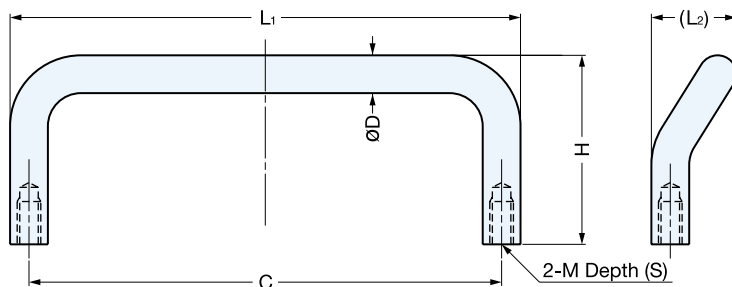
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HANDLE



H-75-C



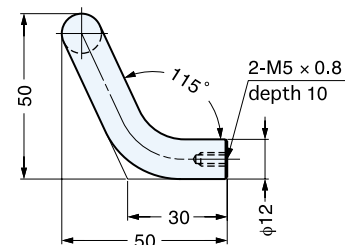
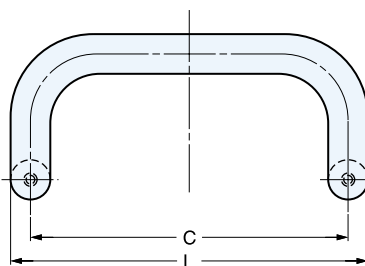
Material	Finish
303 Stainless Steel	Polished

Item No.	L ₁	(L ₂)	(S)	H	C	øD	M	Weight (g)	Box (pcs)	Carton (pcs)
H-75-C- 66	66	16	7	30	60	6	M4	23	100	400
H-75-C- 86	86	16	7	31.5	80	6	M4	28	100	400
H-75-C-108	108	18	10	32	100	8	M5	54	50	200
H-75-C-128	128	18	10	40	120	8	M5	70	50	200

HANDLE



LF-12-96, 128, 160



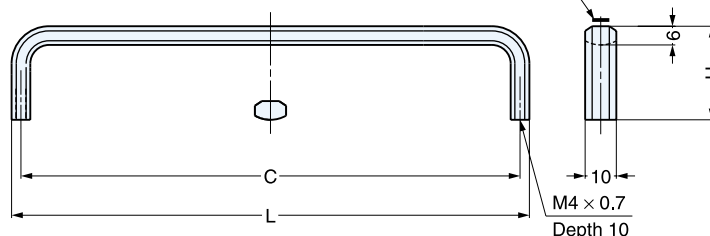
Item No.	L	C	Weight (g)	Box (pcs)	Carton (pcs)
LF-12- 96	108	96	182	10	80
LF-12-128	140	128	211	10	60
LF-12-160	172	160	236	10	60

Material	Finish
304 Stainless Steel	Satin

HANDLE



JS-165, 260, 360



Item No.	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
JS-165	166	160 (6-19/64")	30	81	15	150
JS-260	260	254 (10")	33	122	10	100
JS-360	358	352 (13-55/64")	36	166	10	100

Material	Finish
316 Stainless Steel	Mirror and Satin Combination

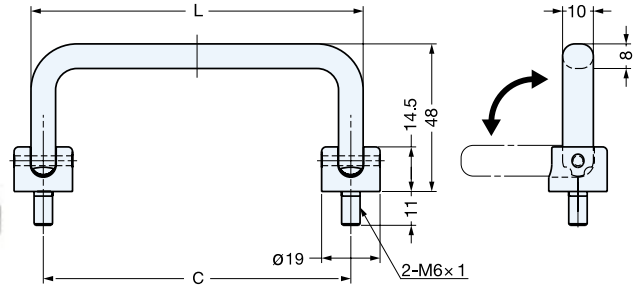
FOLDING HANDLE

STAINLESS
304
STEEL

HK-80, 100, 120

HANDLES, PULLS & KNOBS

FOLDING HANDLES / HANDLES



- 90-degree folding handle.
- Handle clicks into open and closed position.

Item No.	C	L	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
HK- 80	80	88	50 (110 lbs)	125	10	100
HK-100	100	108	50 (110 lbs)	136	10	100
HK-120	120	128	50 (110 lbs)	146	10	100

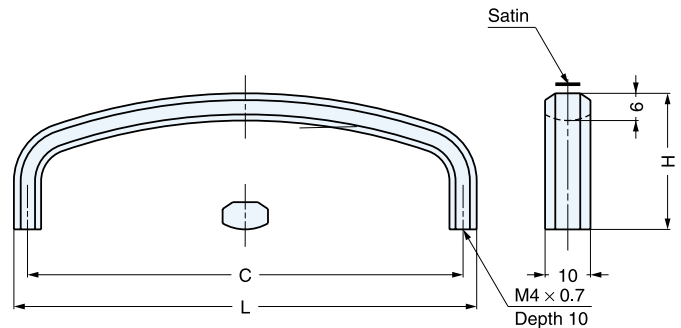
Material	Finish
304 Stainless Steel	Mirror

HANDLE

M4x25
STAINLESS

STAINLESS
316
STEEL

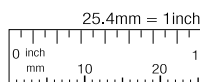
JS-R



Item No.	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)
JS-R 40	38	32 (1-17/64")	27	26	30	300
JS-R 70	70	64 (2-33/64")	30	35	20	200
JS-R100	102	96 (3-25/32")	30	51	20	200
JS-R135	134	128 (5-1/32")	30	63	15	150

Material	Finish
316 Stainless Steel	Mirror and Satin Combination

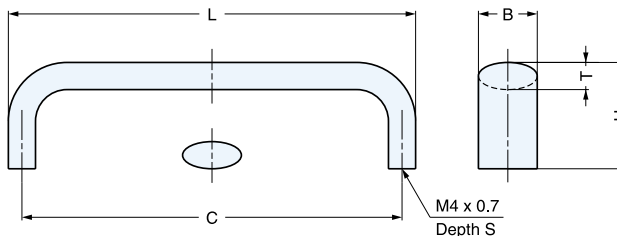
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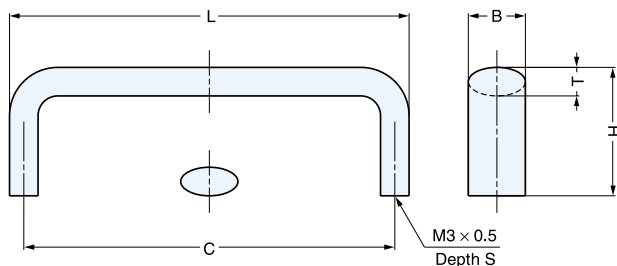
HANDLE



Material	Finish
303 Stainless Steel	Mirror (M) Satin (S)

Item No.		L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)
DL- 70/M	DL- 70/S	70	64 (2-33/64")	23	13	6	10	44	20	200
DL- 90/M	DL- 90/S	90	84 (3-5/16")	23.5	13	6	10	55	20	200
DL-110/M	DL-110/S	110	104 (4-3/32")	24	13	6	10	65	15	150
DL-130/M	DL-130/S	130	124 (4-7/8")	24.5	13	6	10	75	15	150
DL-150/M	DL-150/S	150	144 (5-43/64")	25	13	6	10	86	15	150

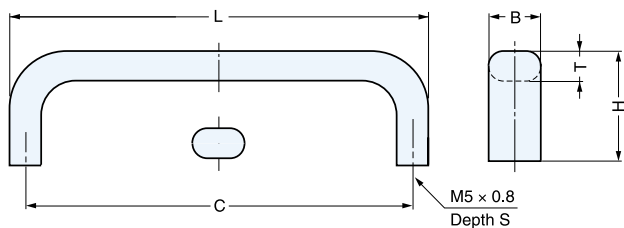
HANDLE



Material	Finish
303 Stainless Steel	Mirror (M) Satin (S)

Item No.		L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)
DS-30/M	DS-30/S	30	25 (63/64")	23	10	5	8	15	40	400
DS-50/M	DS-50/S	50	45 (1-25/32")	22	10	5	10	22	30	300
DS-70/M	DS-70/S	70	65 (2-9/16")	22.5	10	5	10	28	30	300
DS-90/M	DS-90/S	90	85 (3-11/32")	23	10	5	10	35	20	200

HANDLE



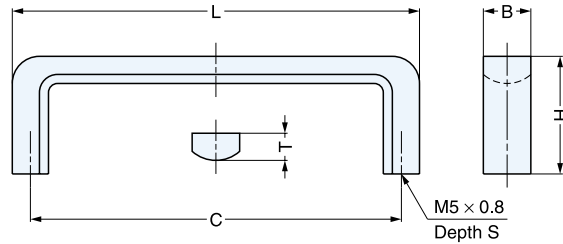
Material	Finish
303 Stainless Steel	Mirror (M) Satin (S)

Item No.		L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)
EC- 80/M	EC- 80/S	80	72 (2-27/32")	30	14	8	10	84	20	200
EC-100/M	EC-100/S	100	92 (3-5/8")	32	14	8	10	102	15	150
EC-120/M	EC-120/S	120	112 (4-13/32")	34	14	8	12	120	15	150
EC-150/M	EC-150/S	150	142 (5-19/32")	36	14	8	12	148	10	100
EC-180/M	EC-180/S	180	172 (6-25/32")	37	14	8	12	174	10	100
EC-220/M	EC-220/S	220	212 (8-11/32")	38	14	8	12	205	8	80

HANDLE



FB-90, 110, 130



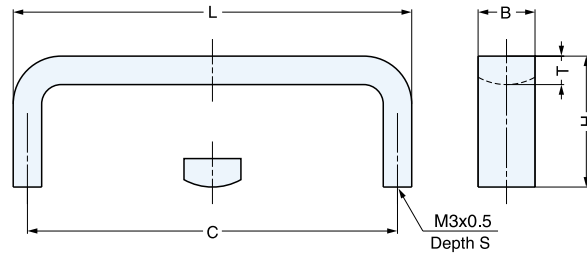
Material	Finish
304 Stainless Steel	Mirror

Item No.	L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)
FB- 90	90	82 (3-7/32")	26	10.5	6	10	45	35	280
FB-110	110	102 (4-1/64")	28	12.5	7	12	60	25	200
FB-130	130	120 (4-23/32")	32	14.5	8	14	93	20	160

HANDLE



KB



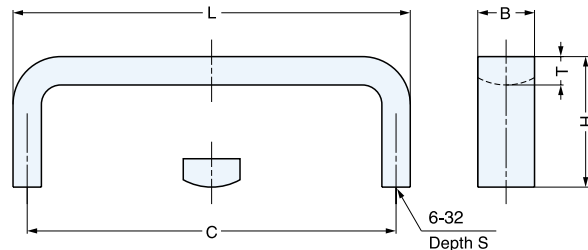
Material	Finish
303 Stainless Steel	Mirror (M) Satin (S)

Item No.	L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)	
KB-30/M	KB-30/S	30	25 (63/64")	23	10	5	8	18	40	400
KB-50/M	KB-50/S	50	45 (1-25/32")	22	10	5	10	26	30	300
KB-70/M	KB-70/S	70	65 (2-9/16")	22.5	10	5	10	33	30	300
KB-90/M	KB-90/S	90	85 (3-11/32")	23	10	5	10	40	20	200

HANDLE



KS-430, 435, 440



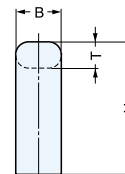
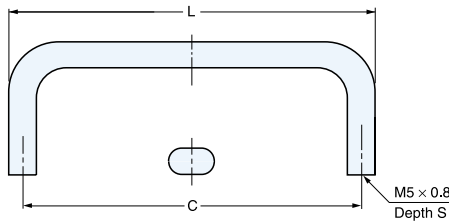
Material	Finish
304 Stainless Steel	Mirror (M) Satin (S)

Item No.	L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)	
KS-430/M	KS-430/S	81	76 (3")	23	10	5	9	45	20	200
KS-435/M	KS-435/S	94	89 (3-1/2")	23	10	5	9	48	20	200
KS-440/M	KS-440/S	106	102 (4")	23	10	5	9	54	20	200

HANDLE



ECH



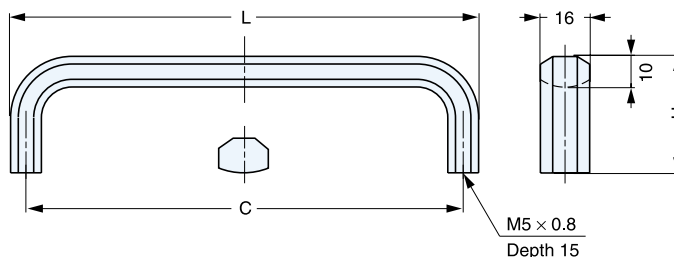
Material	Finish
303 Stainless Steel	Mirror (M) Satin (S)

Item No.	L	C	H	B	T	S	Weight (g)	Box (pcs)	Carton (pcs)
ECH- 75/M ECH- 75/S	83	75 (2-61/64")	40	14	8	11	115	10	100
ECH-100/M ECH-100/S	108	100 (3-15/16")	40	14	8	11	135	15	150
ECH-125/M ECH-125/S	133	125 (4-59/64")	40	14	8	11	153	10	100
ECH-150/M	158	150 (5-29/32")	50	14	8	11	190	7	70
ECH-200/M	208	200 (7-7/8")	50	14	8	11	244	10	100
ECH-250/M	258	250 (9-27/32")	50	14	8	11	280	5	50
ECH-300/M	308	300 (11-13/16")	50	14	8	11	306	5	50

HANDLE



CU

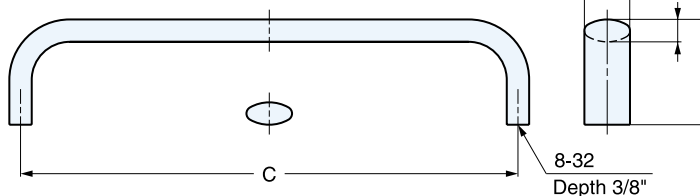


Item No.	L	C	H	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
CU- 80	82	72 (2-27/32")	32	112	10	100	303 Stainless Steel	Mirror and Satin Combination
CU-100	102	92 (3-5/8")	34	136	10	100		
CU-120	122	112 (4-13/32")	36	163	10	100		
CU-150	152	142 (5-19/32")	38	200	8	80		
CU-180	182	172 (6-25/32")	40	234	8	80		
CU-220	222	212 (8-11/32")	42	282	8	40		
CU-300	302	292 (11-1/2")	44	372	6	30		

HANDLE



EK-S

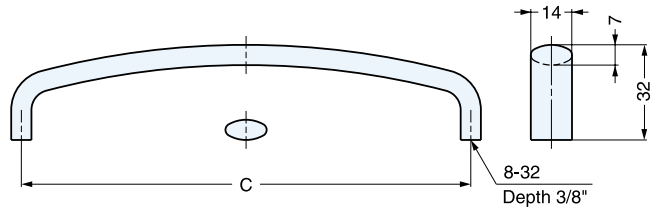


Item No.	C	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
EK-S635/M EK-S635/S	88.9 (3-1/2")	106	20	200	316 Stainless Steel	Mirror (M) Satin (S)
EK-S640/M EK-S640/S	101.6 (4")	116	20	200		
EK-S650/M EK-S650/S	127 (5")	134	20	200		
EK-S660/M EK-S660/S	152.4 (6")	152	20	200		

HANDLE



EK-R



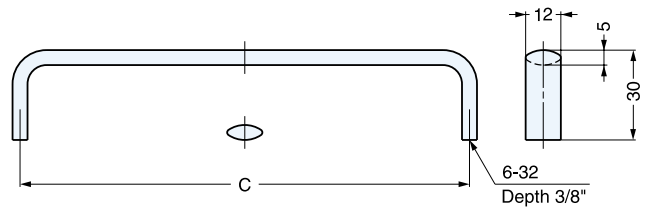
Item No.	C	Weight (g)	Box (pcs)	Carton (pcs)
EK-R635/M EK-R635/S	88.9 (3-1/2")	95	20	200
EK-R640/M EK-R640/S	101.6 (4")	106	20	200
EK-R650/M EK-R650/S	127 (5")	123	20	200
EK-R660/M EK-R660/S	152.4 (6")	141	20	200

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

HANDLE



KC-S



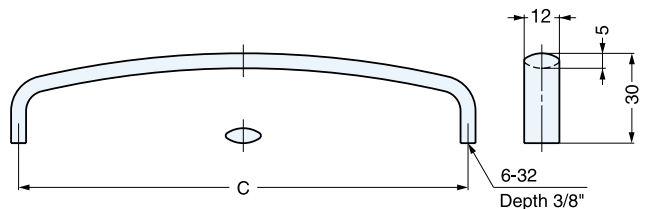
Item No.	C	Weight (g)	Box (pcs)	Carton (pcs)
KC-S635/M KC-S635/S	88.9 (3-1/2")	67	20	200
KC-S640/M KC-S640/S	101.6 (4")	71	20	200
KC-S650/M KC-S650/S	127 (5")	85	20	200
KC-S660/M KC-S660/S	152.4 (6")	95	20	200

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

HANDLE



KC-R



Item No.	C	Weight (g)	Box (pcs)	Carton (pcs)
KC-R635/M KC-R635/S	88.9 (3-1/2")	60	20	200
KC-R640/M KC-R640/S	101.6 (4")	67	20	200
KC-R650/M KC-R650/S	127 (5")	78	20	200
KC-R660/M KC-R660/S	152.4 (6")	88	20	200

Material	Finish
316 Stainless Steel	Mirror (M) Satin (S)

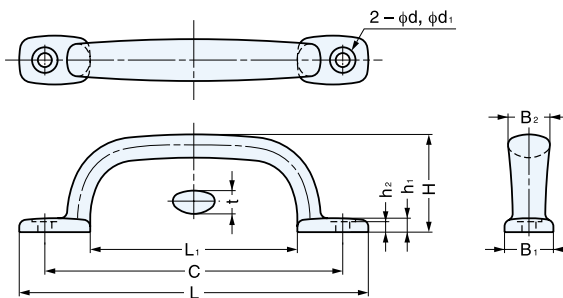
HANDLE



2LC



PAT.P



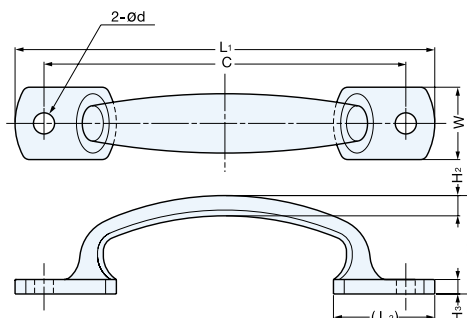
Material	Finish
316 Stainless Steel	Mirror

Item No.	L	L ₁	C	B ₁	B ₂	H	h ₁	h ₂	t	d	d ₁	Weight (g)	Box (pcs)	Carton (pcs)	Screw
2LC- 80	80	32	64	16	14	35	5.5	4	8	5	9.5	70	12	144	4x20
2LC-120	120	64	96	18	16	36	5.5	4.5	9	5	9.5	106	8	96	4x20
2LC-150	150	89	128	21	18	42	6	4.5	10	6	11	172	6	72	5x32
2LC-180	180	118	160	23	20	45	6.5	5	10	6	11	225	3	36	5x32

HANDLE



3LC



Material	Finish
304 Stainless Steel	Mirror

Item No.	L ₁	L ₂	W	H ₁	H ₂	H ₃	C	od	Weight (g)	Box (pcs)
3LC-120	120	29	20	30	6	5	105	5.5	90	100
3LC-130	130	30	22	33	7	6	115	5.5	120	100
3LC-145	145	35	25	34	7	6	125	6.5	155	80

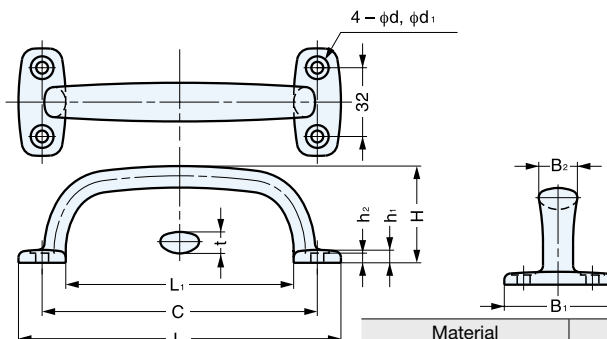
HANDLE



4LC



PAT.P



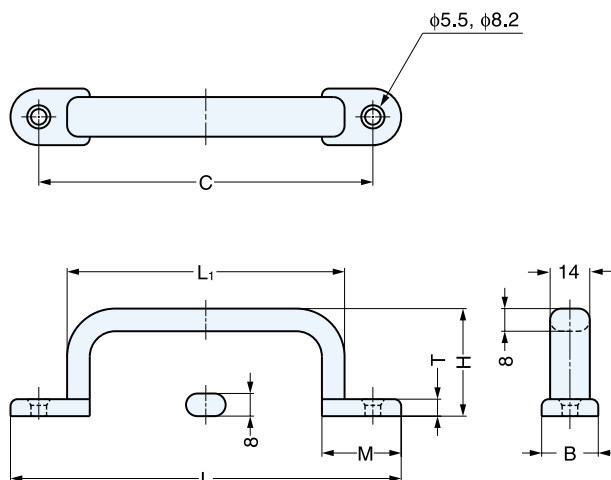
Material	Finish
316 Stainless Steel	Mirror

Item No.	L	L ₁	C	B ₁	B ₂	H	h ₁	h ₂	t	d	d ₁	Weight (g)	Box (pcs)	Carton (pcs)	Screw
4LC- 82	82	46	64	48	16	36.5	5.5	4	8	5	9.5	110	8	96	4x20
4LC-114	114	78	96	48	16	40	6	4.5	9	5	9.5	148	6	72	4x20
4LC-150	150	106	128	50	18	45	6	4.5	10	6	11	210	3	36	5x32
4LC-180	180	140	160	50	20	48	6.5	5	10	6	11	270	2	24	5x32

HANDLE



EC-Y-140, 160, 190



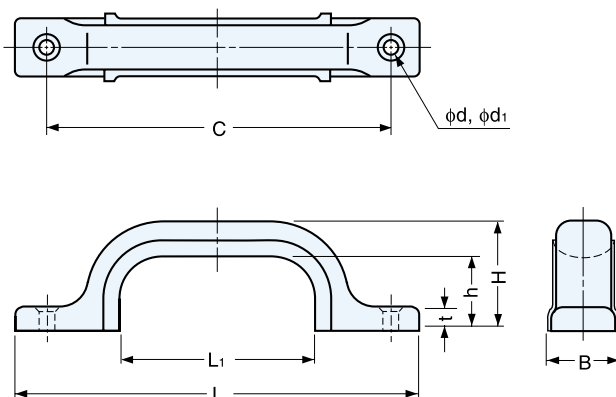
Material	Finish
303 Stainless Steel	Mirror

Item No.	L	L1	C	B	H	T	M	Weight (g)	Box (pcs)
EC-Y-140	138	100 (3-15/16")	120 (4-23/32")	20	38	6	28	142	5
EC-Y-160	158	120 (4-23/32")	140 (5-33/64")	20	40	6	28	160	3
EC-Y-190	188	150 (5-29/32")	170 (6-11/16")	20	42	6	28	185	2

HANDLE



US-70, 120, 160



Material	Finish
304 Stainless Steel	Mirror (M) Satin (S)

* Grip - Black/Synthetic Rubber

Item No.	L	L1	C	B	H	h	t	d	d1	Weight (g)	Box (pcs)	Carton (pcs)	Screw
US- 70/M US-70/S	70	20	54 (2-1/8")	17	28	21	5.5	3.3	6.6	20	20	200	3.1x16
US-120/M US-120/S	120	57	102 (4-1/64")	19	32	21	6.5	3.8	7.6	45	20	200	3.5x20
US-160/M US-160/S	160	88	140 (5-33/64")	22	37.5	23	7.5	4.1	8.1	70	10	100	4.1x25

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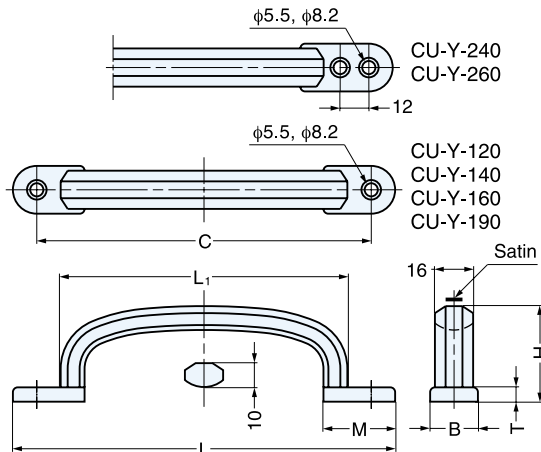
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HANDLE



CU-Y



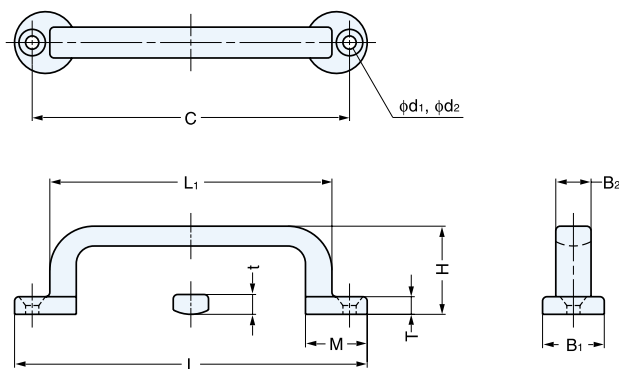
Material	Finish
303 Stainless Steel	Mirror and Satin Combination

Item No.	L	L ₁	C	B	H	T	M	Weight (g)	Box (pcs)
CU-Y-120	118	80	100 (3-15/16")	20	36	6	30	148	5
CU-Y-140	138	100	120 (4-23/32")	20	38	6	30	171	5
CU-Y-160	158	120	140 (5-33/64")	20	40	6	30	195	3
CU-Y-190	188	150	170 (6-11/16")	20	42	6	30	228	2
CU-Y-240	238	180	196 (7-23/32")	20	44	6	37	278	2
CU-Y-260	258	200	216 (8-1/2")	20	46	6	37	301	2

HANDLE



FT-65, 80, 100



Material	Finish
304 Stainless Steel	Mirror

Item No.	L	L ₁	C	B ₁	B ₂	H	T	t	M	d ₁	d ₂	Weight (g)	Box (pcs)	Carton (pcs)	Screw
FT- 65	65	48	57 (2-1/4")	13	7	16	3.5	4	13	3.3	6.4	19	40	480	3.1x16
FT- 80	80	64	72 (2-27/32")	14	8	20	4	4.5	14	3.3	6.4	32	30	360	3.1x16
FT-100	100	75	88 (5-15/32")	18	10	25	5	5.5	18	4.1	8	58	20	240	3.8x20

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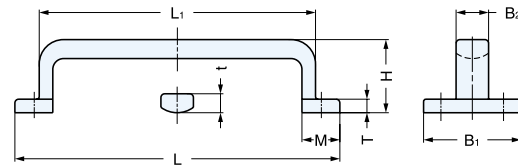
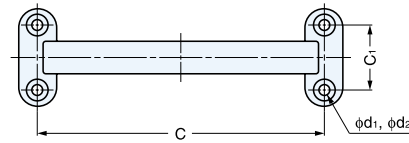
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HANDLE



FT-120, 150



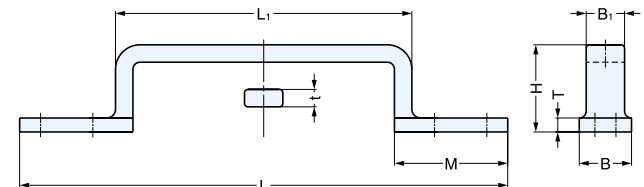
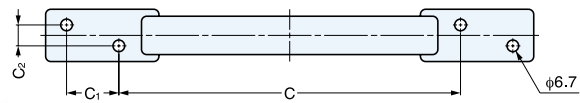
Material	Finish
304 Stainless Steel	Mirror

Item No.	L	L1	C	C1	B1	B2	H	T	t	M	d1	d2	Weight (g)	Box (pcs)	Carton (pcs)	Screw
FT-120	120	102	106 (4-11/64")	24	36	12	27	5	7	14	4.1	8	105	10	120	3.8x20
FT-150	150	126	132 (5-3/16")	30	45	15	33	6	8	18	5.3	10.4	191	5	40	5.1x25

LARGE HANDLE



FT-S 280, 370



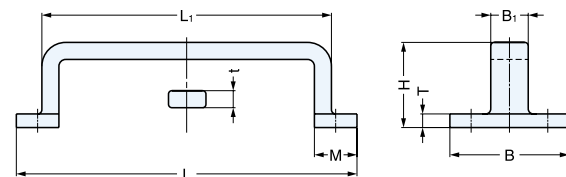
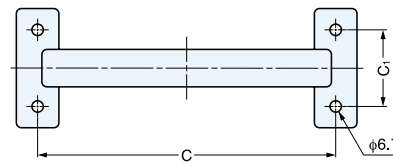
Material	Finish
316 Stainless Steel	Mirror

Item No.	L	L1	B	B1	H	T	t	M	C	C1	C2	Weight (g)	Box (pcs)	Carton (pcs)
FT-S280	280 (11-1/32")	170	30	22	50	8	10	65	196 (7-23/32")	30	12	612	1	20
FT-S370	370 (14-9/16")	250	36	26	62	10	12	72	277 (10-29/32")	35	18	1154	1	10

LARGE HANDLE



FT-200, 280



Material	Finish
316 Stainless Steel	Mirror

Item No.	L	L1	C	C1	B1	B	H	T	t	M	Weight (g)	Box (pcs)	Carton (pcs)
FT-200	200	170	175 (6-57/64")	45	22	70	50	8	10	25	586	1	20
FT-280	280	250	253 (9-31/32")	55	26	80	62	10	12	27	1088	1	10

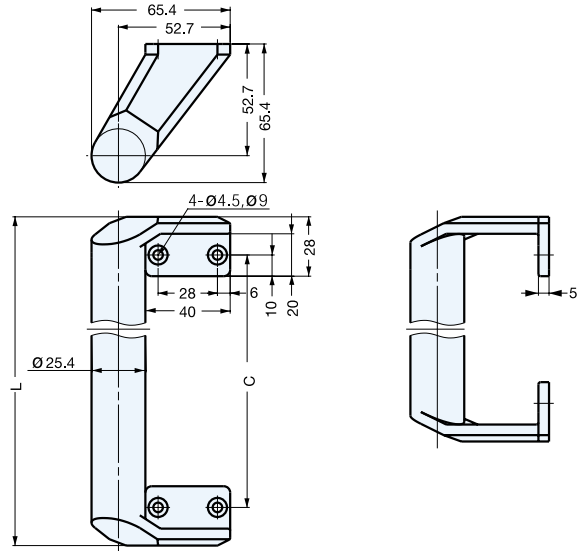
HANDLE



MP-500, 750, 1000



PAT.P



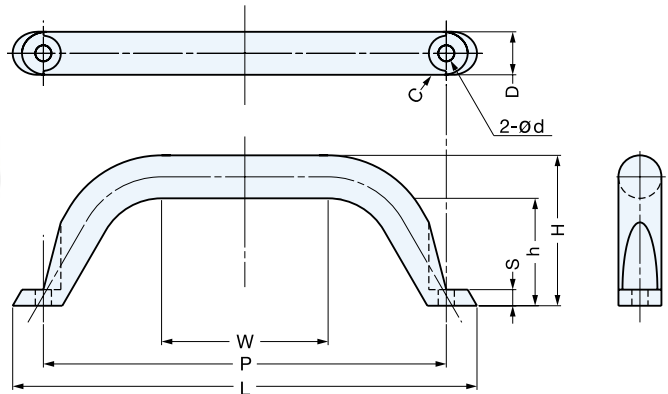
Item No.	L	C	Weight (g)	Box (pcs)	Carton (pcs)
MP- 500	500	464	1000	2	20
MP- 750	750	714	1300	2	16
MP-1000	1000	964	1600	2	12

Material	Finish
316 Stainless Steel	Mirror

HANDLE



MG-150, 190, 250

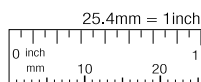


• Compliant with SEMI S8-0701 guideline.

Material	Finish
316 Stainless Steel	Mirror

Item No.	øD	C	L	P	W	H	h	S	ød	Weight (g)	Box (pcs)	Carton (pcs)	Recommended Screw
MG-150	16	R6.5	(172.8)	150	62	(56)	40	6	6	295	10	40	M5
MG-190	18	R7.5	(216.7)	190	92	(63)	45	8	7	460	5	25	M6
MG-250	18	R7.5	(275.5)	250	145	(68)	50	8	7	595	5	20	M6

LAMP LAMP BRAND by SUGATSUNE



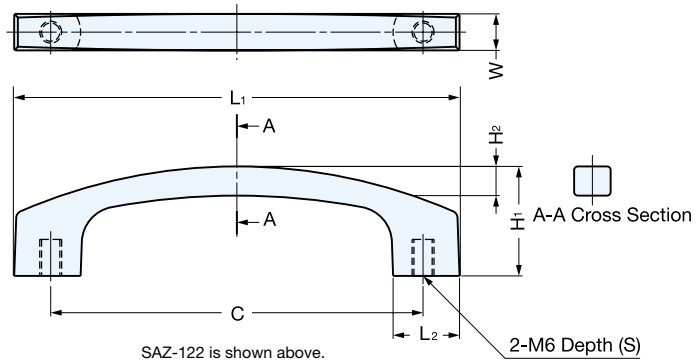
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HANDLE



SAZ-104, 122

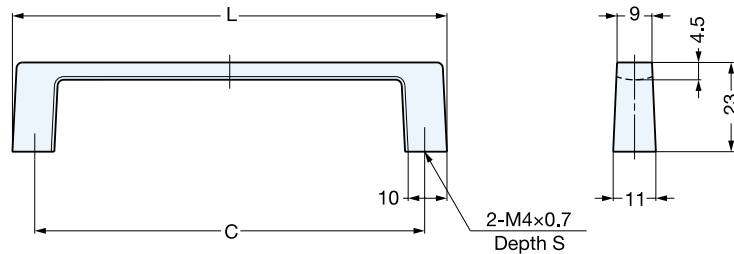


Item No.	L ₁	L ₂	C	S	W	H ₁	H ₂	Weight (g)	Box (pcs)	Material	Finish
SAZ-104	104	16	86	8	9	23	5.5	40	60	Zinc Alloy	Chrome
SAZ-122	122	18	102	10	10	30	8	85	40		

HANDLE



936



Item No.	L	C	S	Weight (g)	Box (pcs)	Carton (pcs)	Screw	Material	Finish
936- 55-SCR	66.5	55	8	40	50	200	M4x25	Zinc Alloy	Satin Chrome (SCR)
936-100-DC	112	100.5	10	52	50	200	M4x28		Dull Chrome (DC)

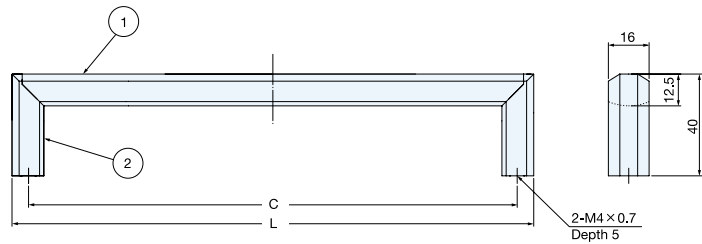
HANDLE



XL-HA



PAT.P



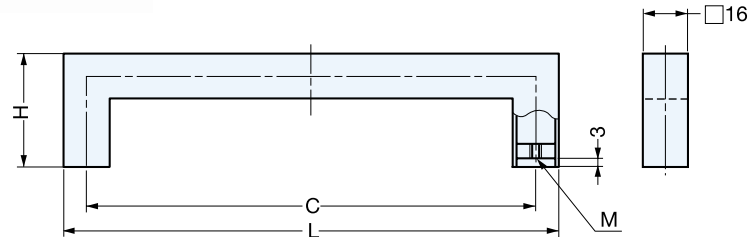
Item No.	L	C	Weight (g)	Box (pcs)	Carton (pcs)
XL-HA96	109	96	132	20	80
XL-HA128	141	128	142	20	80
XL-HA192	205	192	144	20	80
XL-HA256	269	256	180	10	60
XL-HA320	333	320	200	10	60

No.	Part Name	Material	Finish
①	Body	Aluminum Alloy	Alumite
②	Leg	Zinc Alloy	Matte Silver

HANDLE



KPH



Item No.	L	C	H	T	Weight (g)	Box (pcs)	Carton (pcs)
KPH-160	176	160	40	M4x0.7	100	10	100
KPH-192	208	192	40	M4x0.7	115	10	100
KPH-224	240	224	50	M5x0.8	130	10	100
KPH-256	272	256	50	M5x0.8	143	10	100
KPH-288	304	288	50	M5x0.8	160	10	100

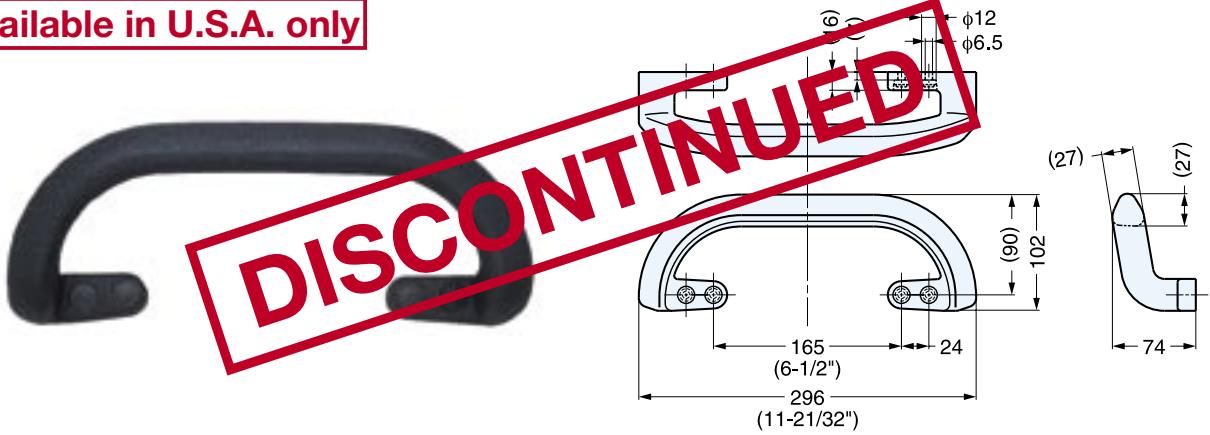
Material	Finish
304 Stainless Steel	Satin

HANDLE



WB-901225

Available in U.S.A. only



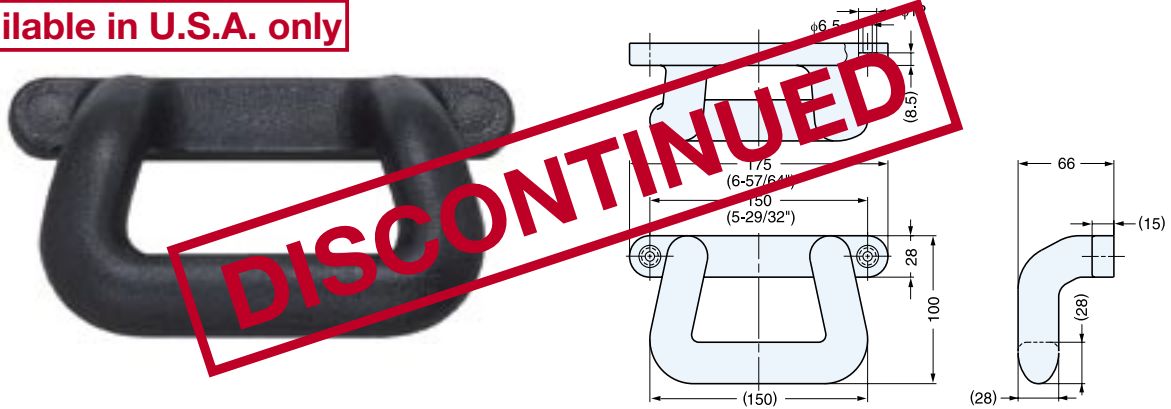
Item No.	Weight (g)	Box (pcs)	Material	Color
WB-901225	400	20	Polyurethane with Steel Core	Black

HANDLE



WB-901228

Available in U.S.A. only



Item No.	Weight (g)	Box (pcs)	Material	Color
WB-901228	478	20	Polyurethane with Steel Core	Black

HANDLE



WB-900404, 900405

Available in U.S.A. only



Material	Color
Polyurethane with Steel Core	Black

Item No.	L	C	H	H ₁	T	Weight (g)	Box (pcs)
WB-900404	185 (7-9/32")	160 (6-19/64")	52	32	(10)	152	100
WB-900405	275 (10-53/64")	250 (9-27/32")	57	39	(15)	252	100

HANDLE

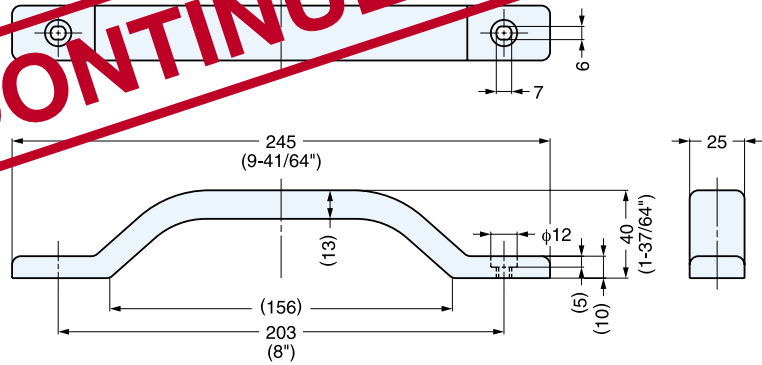


WB-901790

Available in U.S.A. only



DISCONTINUED



Item No. WB-901790	Weight (g) 54	Box (pcs) 150	Material Polypropylene	Color Black
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HANDLE

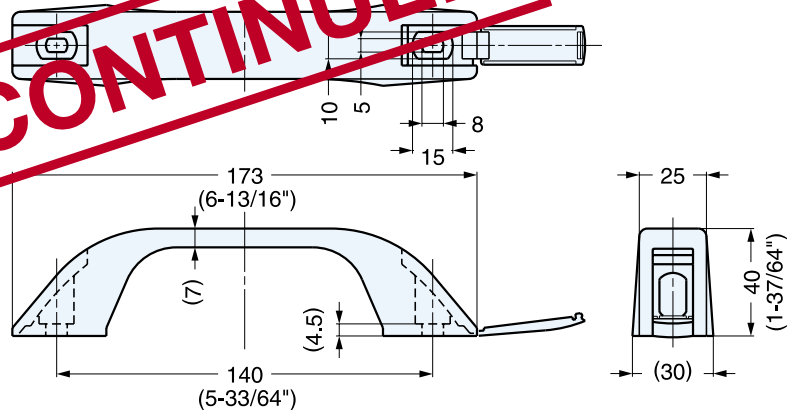


WB-130357

Available in U.S.A. only

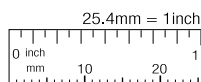


DISCONTINUED



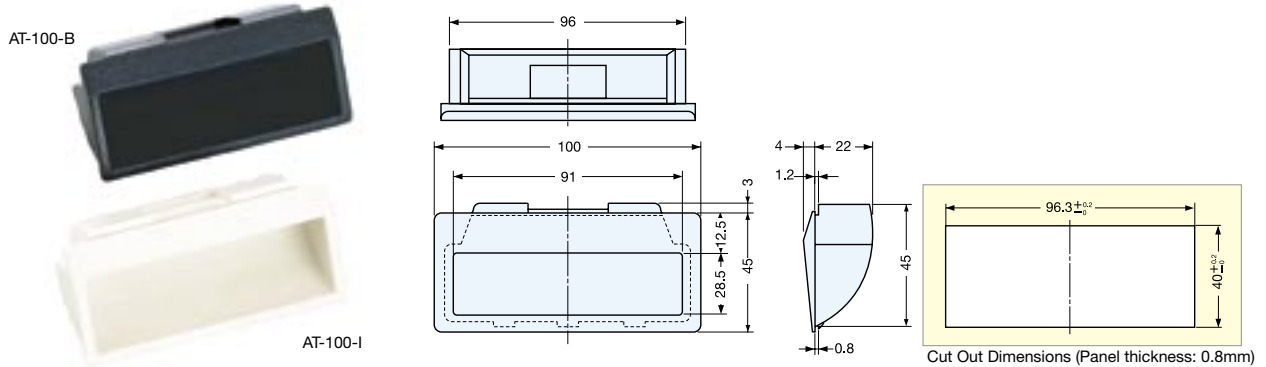
Item No. WB-130357	Weight (g) 38	Box (pcs) 120	Material Polypropylene	Color Black
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LAMP LAMP BRAND by SUGATSUNE

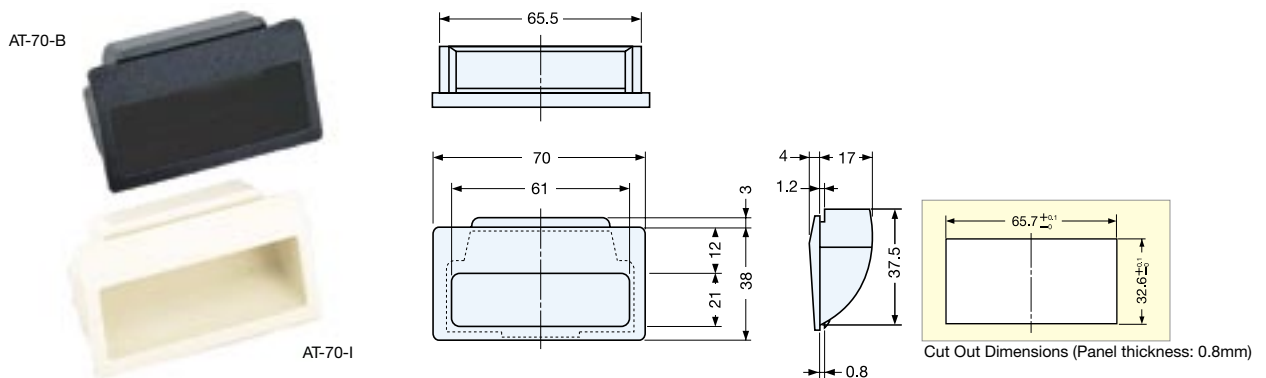


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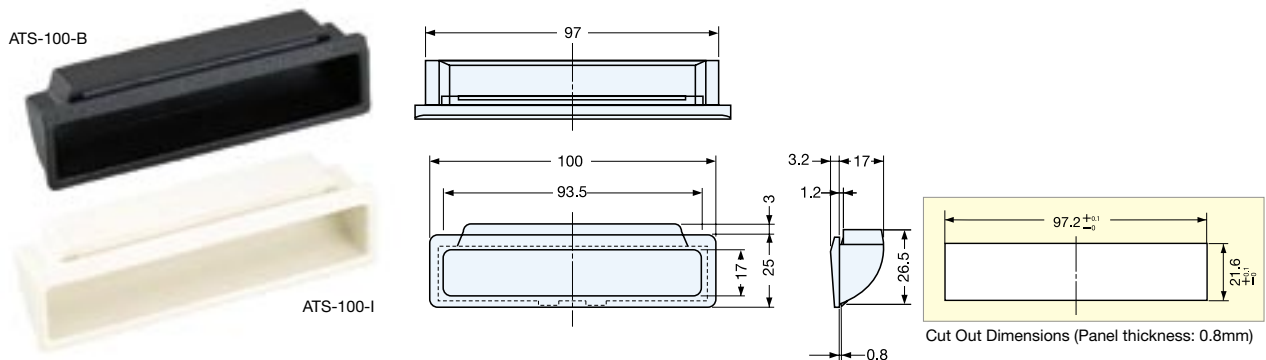
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RECESSED PULL
AT-100


Item No.	Weight (g)	Box (pcs)	Material	Color
AT-100-I	23	250	ABS	Ivory
AT-100-BR	23	250		Brown
AT-100-B	23	250		Black

RECESSED PULL
AT-70


Item No.	Weight (g)	Box (pcs)	Material	Color
AT-70-I	12	550	ABS	Ivory
AT-70-BR	12	550		Brown
AT-70-B	12	550		Black

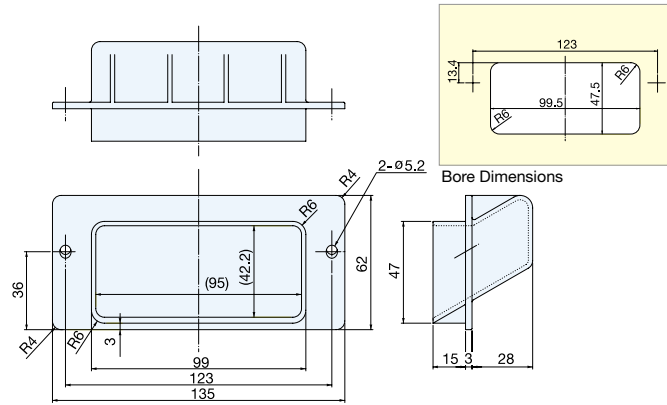
RECESSED PULL
ATS-100


Item No.	Weight (g)	Box (pcs)	Material	Color
ATS-100-I	12.5	550	ABS	Ivory
ATS-100-BR	12.5	550		Brown
ATS-100-B	12.5	550		Black

RECESSED PULL (BACK MOUNT)



HH-PS99



*For door thickness 15mm

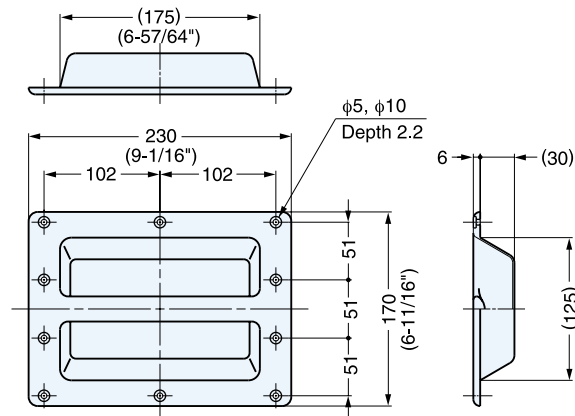
Item No.	Weight (g)	Carton (pcs)	Material	Color
HH-PS99	42	200	Polypropylene with Glass Fiber	Black

RECESSED PULL



WB-901389

Available in U.S.A. only



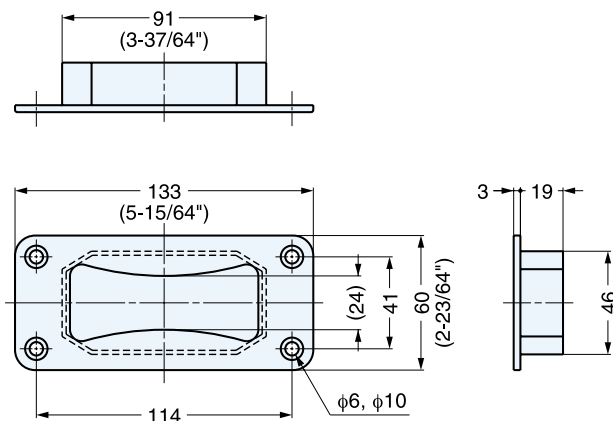
Item No.	Weight (g)	Box (pcs)	Material	Color
WB-901389	378	15	Rubber Molded Steel	Black

RECESSED PULL



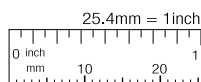
WB-901390

Available in U.S.A. only



Item No.	Weight (g)	Box (pcs)	Material	Color
WB-91390	44	75	Glass Filled Nylon	Black

LAMP LAMP BRAND by SUGATSUNE



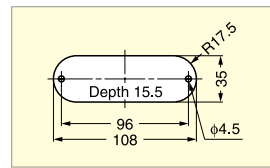
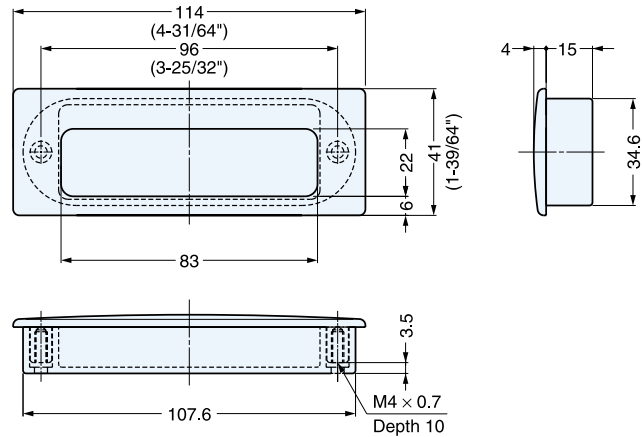
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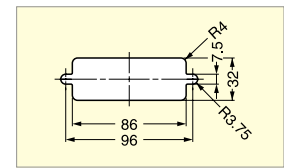
RECESSED PULL



HH-K



Bore Dimensions for wood panel



Cut Out Dimensions for sheet metal

Put sheet metal between front and back part for sheet metal application. (Max. sheet metal thickness: 2 mm)

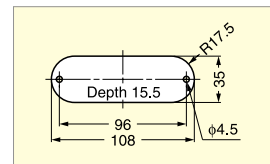
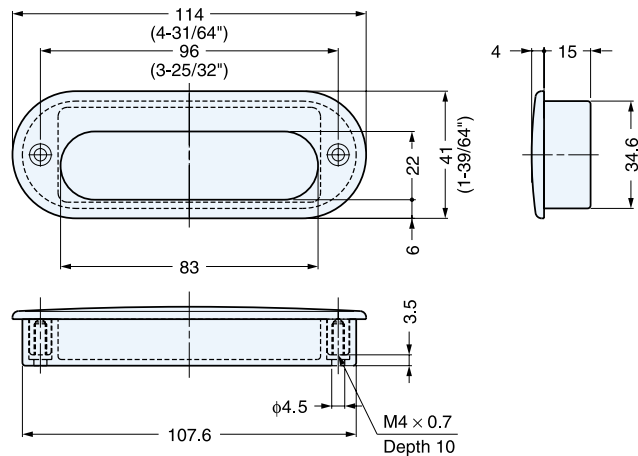
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HH-K	90	10	60

Material	Finish / Color
316 Stainless Steel	Mirror
ABS	Black

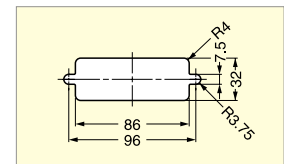
RECESSED PULL



HH-D



Bore Dimensions for wood panel



Cut Out Dimensions for sheet metal

Put sheet metal between front and back part for sheet metal application. (Max. sheet metal thickness: 2 mm)

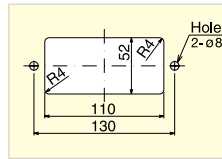
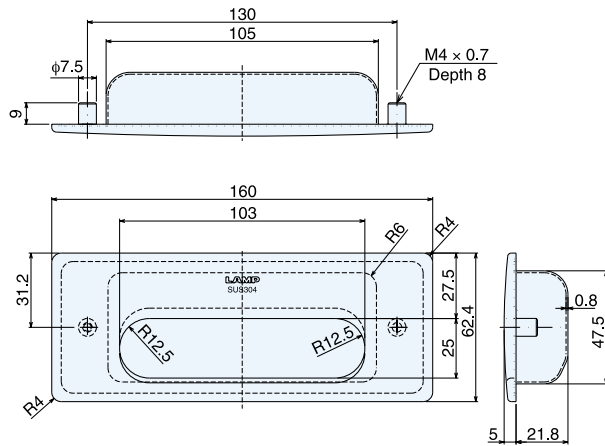
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HH-D	85	10	60

Material	Finish / Color
316 Stainless Steel	Mirror
ABS	Black

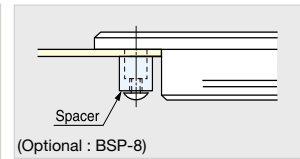
RECESSED PULL



HH-KL160



Cut Out Dimensions



(Optional : BSP-8)
Sheet metal mounting application

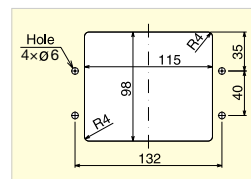
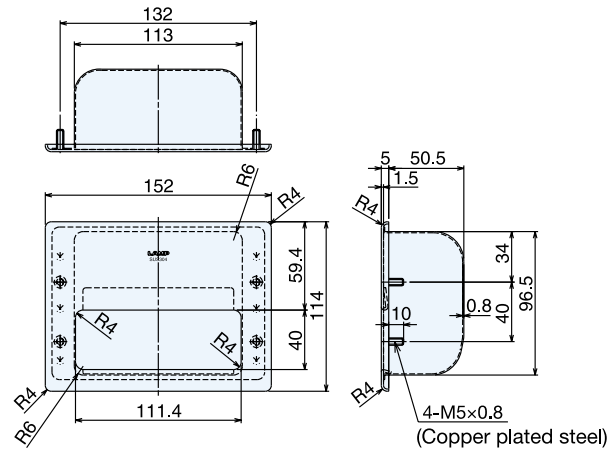
- Compliant with SEMI S8-0600 guideline.
- Spacer for sheet metal application sold separately.

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
HH-KL160	260	8	48	304 Stainless Steel	Satin

RECESSED PULL



HH-KP150

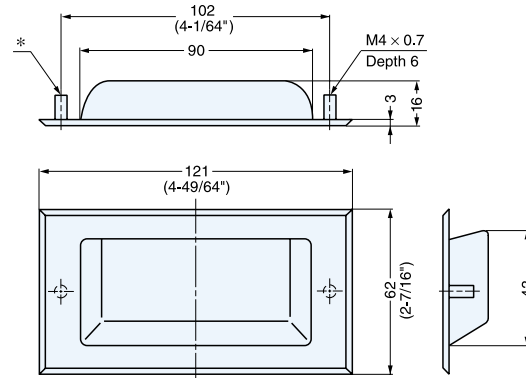


Cut Out Dimensions

- Compliant with SEMI S8-0600 guideline.

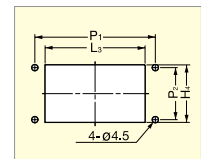
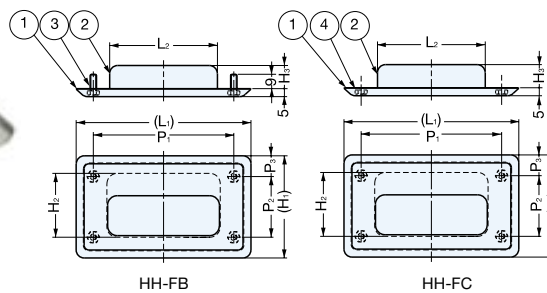
Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
HH-KP150	390	5	50	304 Stainless Steel	Satin

RECESSED PULL

ES


Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
ES-611/ET	68	20	200	304 Stainless Steel	Satin
ES-611/IT	68	20	200		
ES-611/WO	60	20	200		

RECESSED PULL

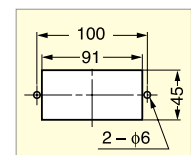
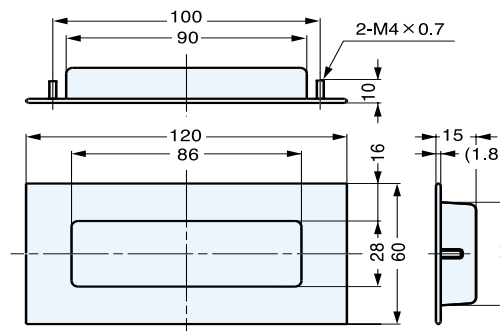
HH


Cut Out Dimensions

No.	Part Name	Material	Finish
①	Front Plate	304 Stainless Steel	Satin
②	Back Cover		-
③	M4 Stud		-
④	M4 Nut		-

Item No.	Stud/Nut	(L ₁)	L ₂	L ₃	(H ₁)	H ₂	H ₃	H ₄	P ₁	P ₂	(P ₃)	Weight (g)
HH-FB-1	M4 Stud	138	96	99	88	62	21	64	110	65	11.5	170
HH-FC-1	M4 Nut	138	96	99	88	62	21	64	110	65	11.5	170
HH-FB-2	M4 Stud	109.5	67.5	73	64	40	14.5	42	88	38	13	100
HH-FC-2	M4 Nut	109.5	67.5	73	64	40	14.5	42	88	38	13	100
HH-FB-3	M4 Stud	94	61	63	60	43	12	43	76	32	14.5	80
HH-FC-3	M4 Nut	94	61	63	60	43	12	43	76	32	14.5	80

RECESSED PULL

HH-AS2


Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
HH-AS2	50	12	240	304 Stainless Steel	Satin

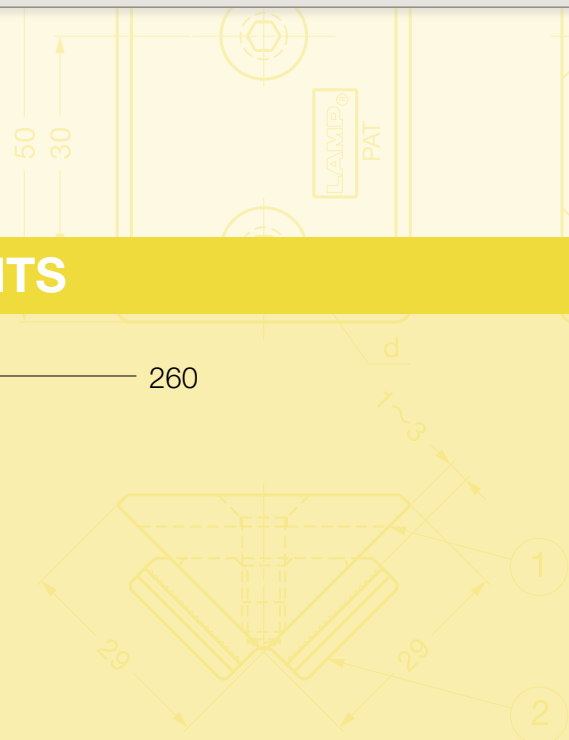
ENCLOSURE COMPONENTS



ENCLOSURE COMPONENTS

□ ENCLOSURE COMPONENTS

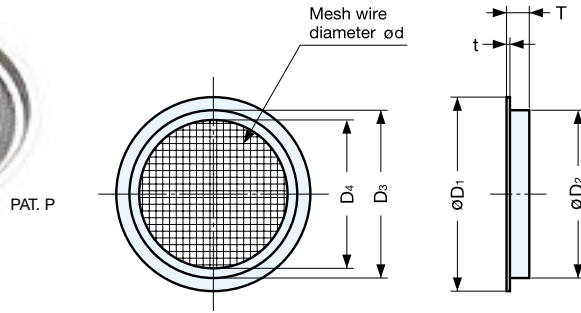
260



VENTILATOR

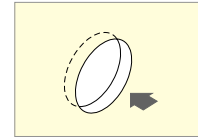


SAM



• 0.4mm mesh wire diameter.

Material	Finish
304 Stainless Steel	Satin



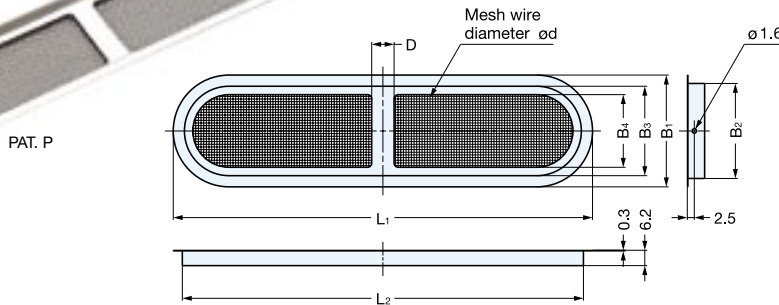
Installation

Item No.	D ₁	D ₂	D ₃	D ₄	T	t	d	Weight (g)	Box (pcs)	Carton (pcs)
SAM- 37	36 (1-27/64")	31.5 (1-1/4")	30	25	5.7	0.3	0.4	4.5	70	1400
SAM- 45	46 (1-13/16")	41.5 (1-41/64")	40	35	5.2	0.3	0.4	6	60	1200
SAM- 60	60 (2-23/64")	53.5 (2-7/64")	52	46	6.0	0.3	0.4	9.5	50	1000
SAM- 85	85 (3-11/32")	77.8 (3-1/16")	76.5	68	6.2	0.3	0.4	16.5	30	600
SAM- 120	120 (4-23/32")	110.5 (4-23/64")	108	99	7.2	0.5	0.4	46.5	20	200

VENTILATOR

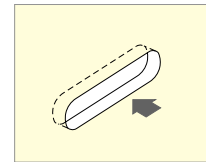


SAD-150, 200



• 0.4mm mesh wire diameter.

Material	Finish
304 Stainless Steel	Satin



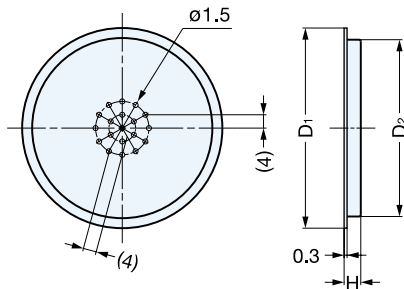
Installation

Item No.	L ₁	B ₁	B ₃	B ₄	L ₂	B ₂	D	d	Weight (g)	Box (pcs)	Carton (pcs)
SAD-150	150 (5-29/32")	40 (1-37/64")	32	26	143.5	34	8	0.4	18.5	30	600
SAD-200	200.5 (7-57/64")	50 (1-31/32")	42	35	194	44	10	0.4	30	30	300

VENTILATOR

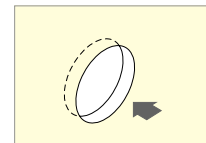


ASM



• 1.5 mm (1/16") diameter holes

Material	Finish
304 Stainless Steel	Satin



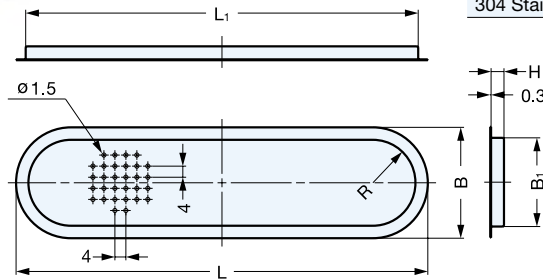
Installation

Item No.	D ₁	D ₂	H	Holes	Weight (g)	Box (pcs)	Carton (pcs)
ASM- 37	36 (1-27/64")	31 (1-7/32")	4.5	37	3	100	3600
ASM- 45	46 (1-13/16")	41 (1-39/64")	4.5	59	5	100	3600
ASM- 60	60 (2-23/64")	53 (2-3/32")	5	127	8	100	2400
ASM- 85	85 (3-11/32")	77 (3-1/32")	5	271	13.5	50	1000

VENTILATOR

STAINLESS 304 STEEL

ASD-150, 200



- 1.5 mm (1/16") diameter holes

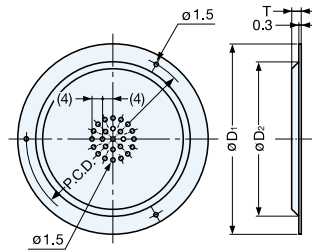
Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	H	B	B ₁	R	Holes	Weight (g)	Box (pcs)	Carton (pcs)
ASD-150	150 (5-29/32")	143	5	40 (1-37/64")	33	16	268	14.5	80	1920
ASD-200	200 (7-7/8")	193	5	50 (1-31/32")	42.8	21	450	23	40	960

VENTILATOR

STAINLESS 304 STEEL

AST



- 1.5 mm (1/16") diameter holes.
- Supplied with Stainless Steel nail. (1.2x10)

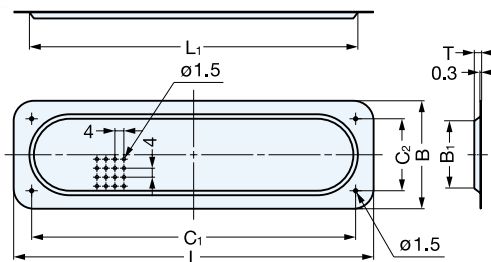
Material	Finish
304 Stainless Steel	Satin

Item No.	D ₁	D ₂	T	P.C.D.	Holes	Weight (g)	Box (pcs)	Carton (pcs)
AST- 45	45 (1-25/32")	34 (1-11/32")	3	40	37	4	100	3600
AST- 55	55 (2-5/32")	44 (1-47/64")	3	50	59	5	100	3600
AST- 70	70 (2-3/4")	55 (2-5/32")	3	64	127	9	100	2400
AST- 100	100 (3-15/16")	81 (3-3/16")	4	91	271	19	50	500

VENTILATOR

STAINLESS 304 STEEL

AST-160, 210



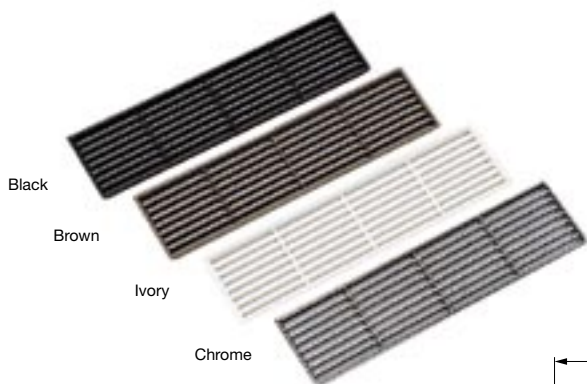
- 1.5 mm (1/16") diameter holes.
- Supplied with Stainless Steel nail. (1.2x10)

Material	Finish
304 Stainless Steel	Satin

Item No.	L	L ₁	B	B ₁	C ₁	C ₂	T	Holes	Weight (g)	Box (pcs)	Carton (pcs)
AST-160	160 (6-19/64")	146	48 (1-57/64")	36	144	32	3	268	18	50	1000
AST-210	210 (8-17/64")	196	58 (2-9/32")	46	194	42	4	450	28	50	1200

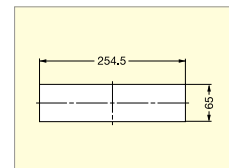
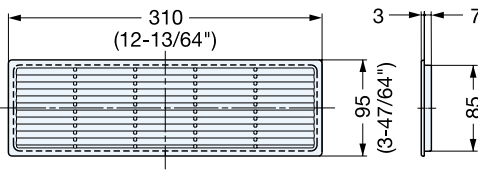
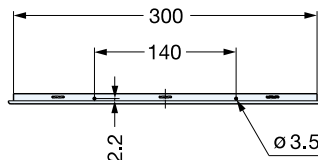
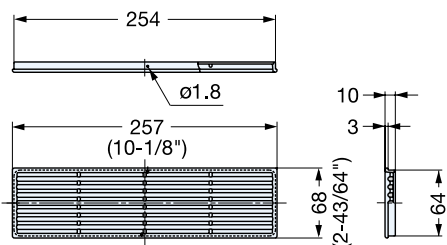
VENTILATOR

APK-250, APKL-310

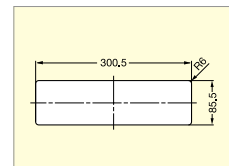


• ABS ventilator

Material	Finish
ABS	Black (BLK), Brown (BRN), Ivory (IVY), Chrome (CR)-APK-250 type only



APK-250 Cut Out Dimensions



APKL-310 Cut Out Dimensions

APK-250

APKL-310

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
APK- 250	57	20	160
APKL-310	100	10	80

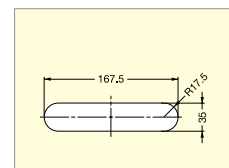
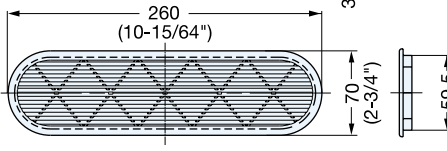
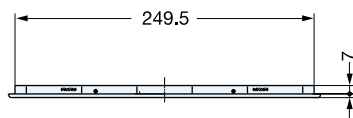
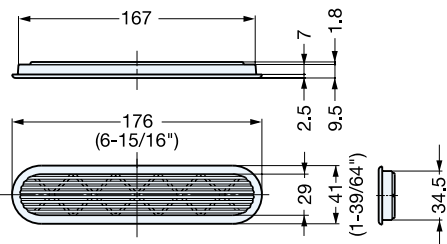
VENTILATOR

APD-170, APDL-260

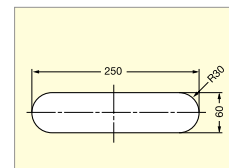


• ABS ventilator

Material	Finish
ABS	Black (BLK), Brown (BRN), Ivory (IVY), Chrome (CR)-APD-170 type only



APD-170 Cut Out Dimensions



APDL-260 Cut Out Dimensions

APD-170

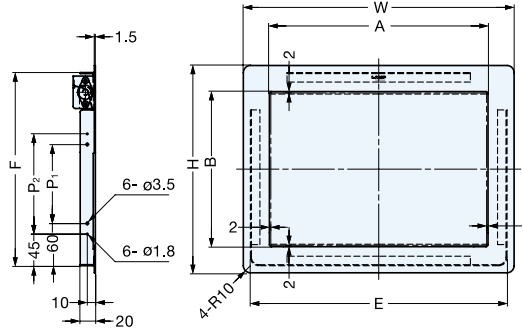
APDL-260

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
APD- 170	22	40	320
APDL-260	60	10	80

MULTI-PURPOSE LID (W/DAMPER)

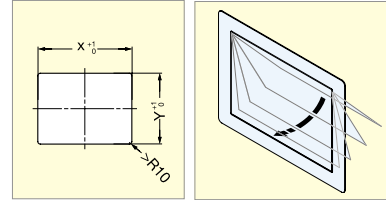
 STAINLESS
304
STEEL

AZ-SD 230/HL, 310/HL



- Soft and slow close movement with unique damper mechanism.
- 304 Stainless Steel lid and frame.

Material	Finish
304 Stainless Steel	Satin



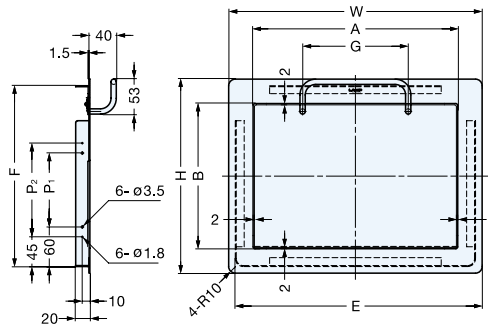
Cut Out Dimensions

Item No.	A	B	W	H	E	F	P ₁	P ₂	X	Y	Weight (g)	Box (pcs)	Carton (pcs)
AZ-SD 230/HL	234	160	308	234	288	214	60	90	289	215	1.5	1	10
AZ-SD 310/HL	310	220	384	294	364	274	112	142	365	275	2.2	1	10

MULTI-PURPOSE LID (W/HANDLE)

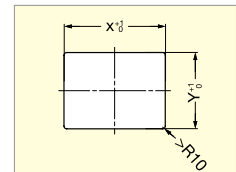
 STAINLESS
304
STEEL

AZ-HD 230/HL, 310/HL



- Easy opening with the handle.
- No need to put hands into trash.
- 304 Stainless Steel lid, frame and handle.

Material	Finish
304 Stainless Steel	Satin



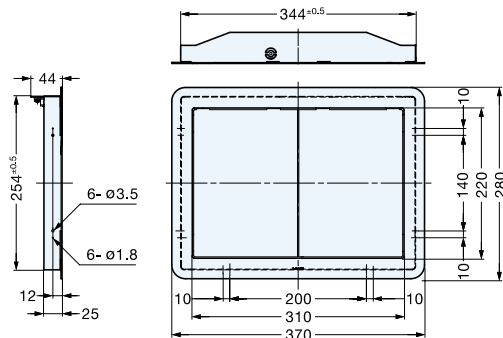
Cut Out Dimensions

Item No.	A	B	W	H	E	F	G	P ₁	P ₂	X	Y	Weight (g)	Box (pcs)	Carton (pcs)
AZ-HD 230/HL	234	160	308	234	288	214	120	60	90	289	215	1.8	1	10
AZ-HD 310/HL	310	220	384	294	364	274	160	112	142	365	275	2.2	1	10

MULTI-PURPOSE LID (DOUBLE DOOR)

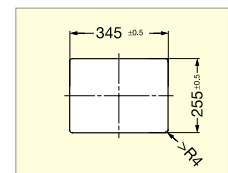
 STAINLESS
304
STEEL

AZ-DD310/HL



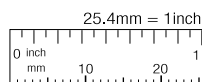
- Synchronized door allows easy opening.
- 304 Stainless Steel lid and frame.

Material	Finish
304 Stainless Steel	Satin



Cut Out Dimensions

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
AZ-DD310/HL	2.2	1	10

LAMP LAMP BRAND by SUGATSUNE

 Customers outside of North America
www.sugatsune.co.jp
export@sugatsune.co.jp

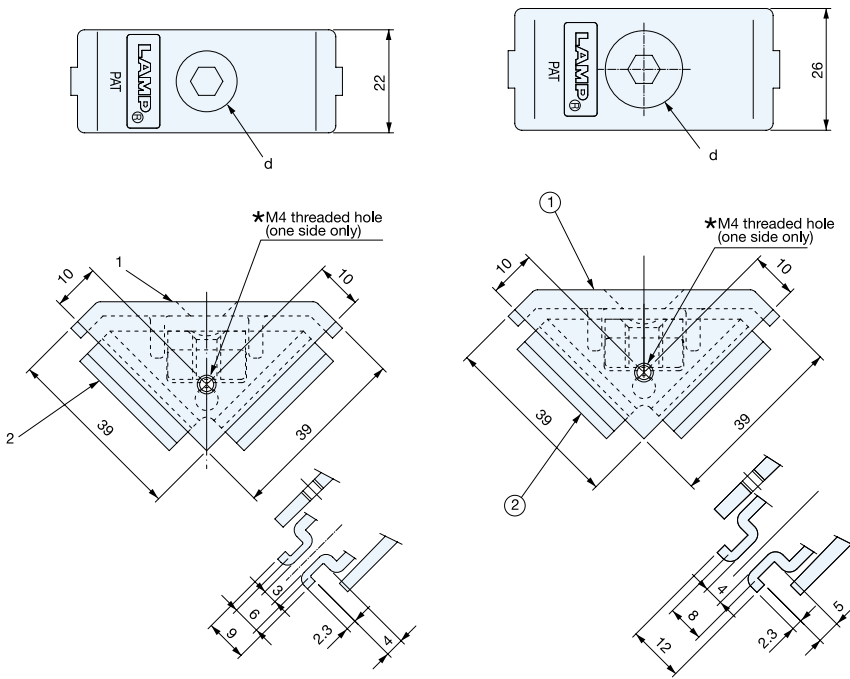
 North American Customers
www.sugatsune.net
 1-888-557-5267

DROP-IN TYPE CORNER CONNECTOR

PJ-60A, 80A

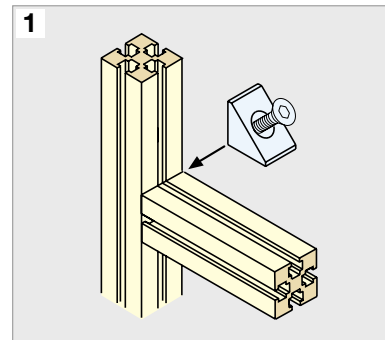


- Simply drop-in and tighten screw to connect frames.
- Automatic self-aligning.
- Ideal for assemblies where slide-in method is not practical.
- Easy installation saves frame assembly time.
- M4 threaded hole provided on AT type for panel installation.
- PJ-60A is designed for 6mm single slot frames.
- PJ-80A is designed for 8mm single slot frames.

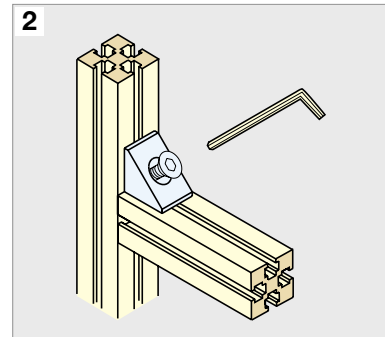


PJ-60AT (For 6mm slot frame)

PJ-80AT (For 8mm slot frame)



1. Simply insert PJ fastener into the slot.

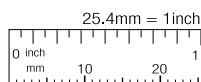


2. Tighten flat head screw with allen key.

No.	Part Name	Material	Finish
①	Cover	Aluminum Alloy	Silver
②	Clamp	Steel	Yellow Zinc Chromate

Item No.	*Threaded Hole	d	Weight (g)	Box (pcs)	Carton (pcs)
PJ-60A	Without	M6×16	36	40	400
PJ-60AT	M4	M6×16	36	40	400
PJ-80A	Without	M8×16	96	20	240
PJ-80AT	M4	M8×16	96	20	240

LAMP LAMP BRAND by SUGATSUNE



Customers outside of North America
www.sugatsune.co.jp
export@sugatsune.co.jp

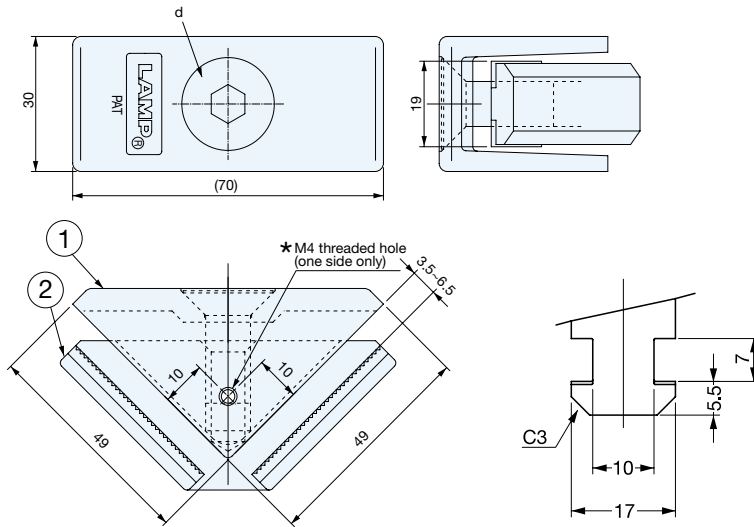
North American Customers
www.sugatsune.net
 1-888-557-5267

CORNER CONNECTOR

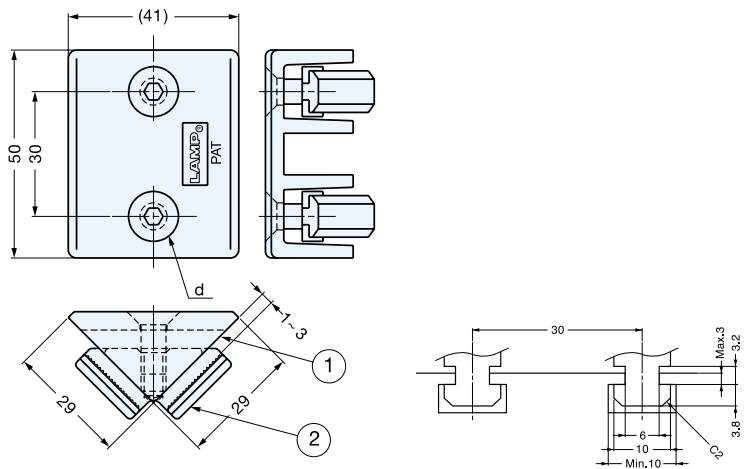
PJ-60W, 100



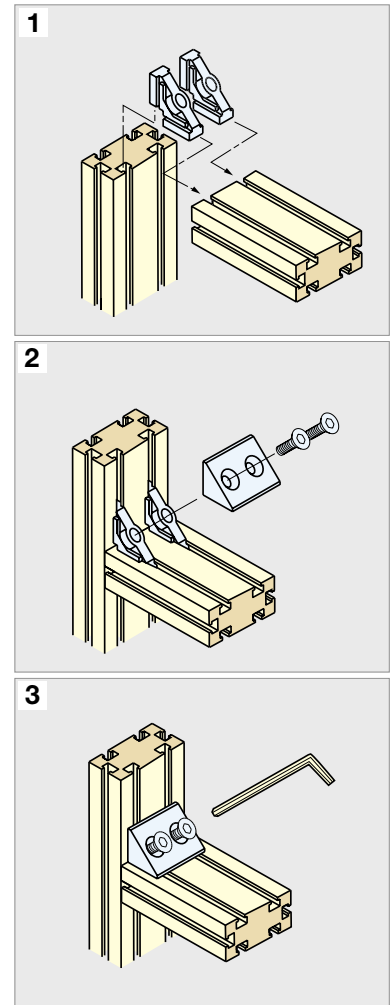
- Tighten only one screw (two for PJ-60W) to connect frames. Integral clamps eliminate need to align separate nuts and bolts.
- Simplified slide-in design saves frame assembly time.
- PJ-60W is designed for 30mm pitch, 6mm double slotted frames.
- PJ-100 is designed for 10mm single slot frames.
- M4 threaded hole provided on PJ-100T for panel installation.



PJ-100T (For 10mm slot frame)



PJ-60W (For 6mm double slotted frame)



No.	Part Name	Material	Finish
①	Cover	Aluminum Alloy	Silver
②	Clamp	Zinc Alloy	Yellow Zinc Chromate

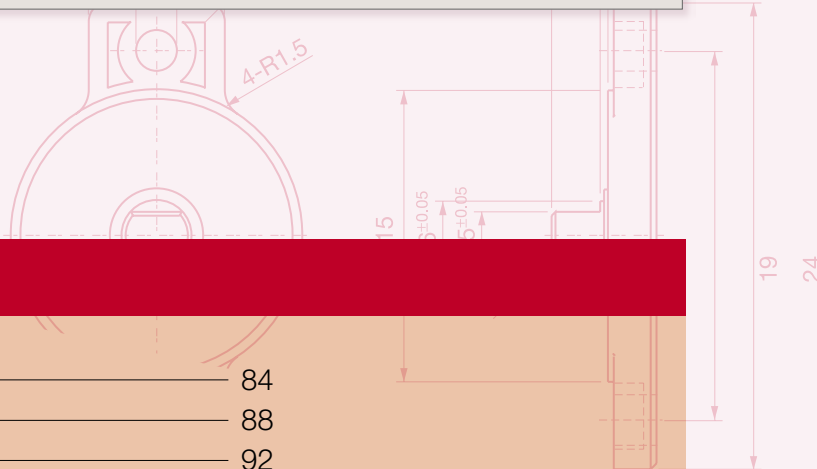
Item No.	*Threaded Hole	d	Weight (g)	Box (pcs)	Carton (pcs)
PJ-60W	Without	M6×15	79	20	240
PJ-100	Without	M10×25	-	-	-
PJ-100T	M4	M10×25	-	-	-

TORQUE DAMPERS



TORQUE DAMPERS

□ ROTARY DAMPERS	84
□ DISK DAMPERS	88
□ VANE DAMPERS	92
□ TECHNICAL INFORMATION	94

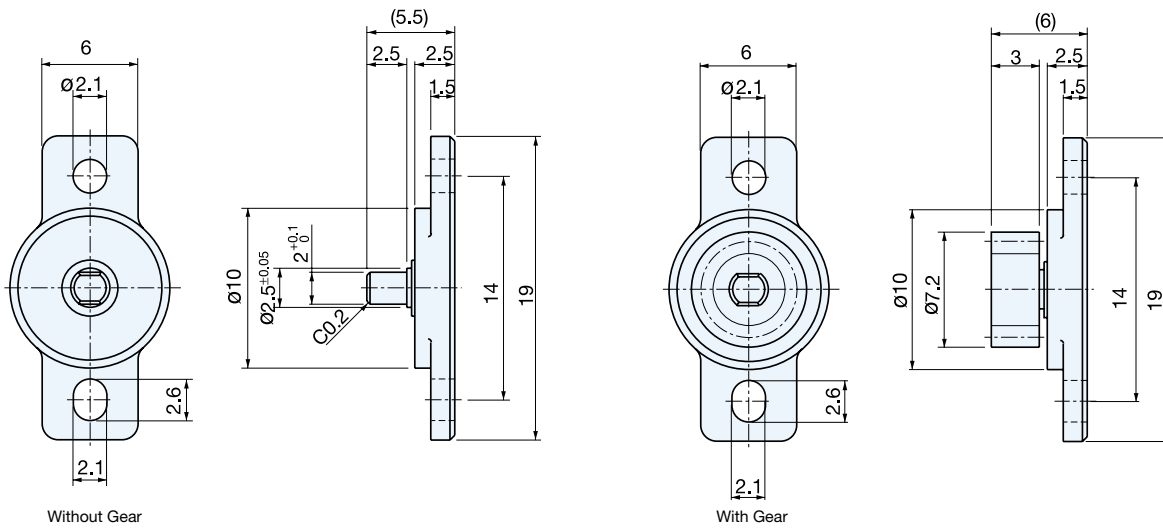


ROTARY DAMPER (TWO WAY)

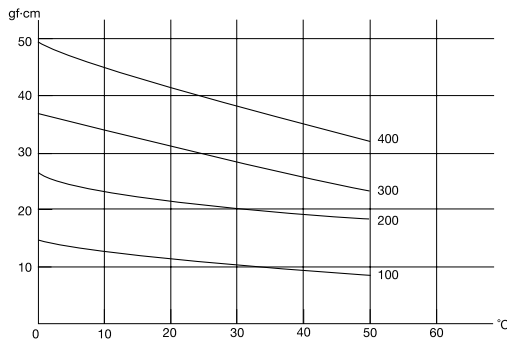
SRT-E2



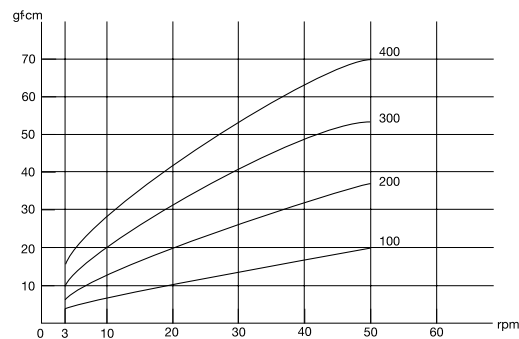
Part Name	Material
Body	Polycarbonate
Shaft	Polyacetal
Gear	Polyacetal



Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



Item No.	Gear	Torque (gf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
SRT-E2-100	Without	10(0.14in-oz)	0.32	2000	10000
SRT-E2-100G1	With		0.41	2000	10000
SRT-E2-200	Without	20(0.28in-oz)	0.32	2000	10000
SRT-E2-200G1	With		0.41	2000	10000
SRT-E2-300	Without	30(0.42in-oz)	0.32	2000	10000
SRT-E2-300G1	With		0.41	2000	10000
SRT-E2-400	Without	40(0.56in-oz)	0.32	2000	10000
SRT-E2-400G1	With		0.41	2000	10000

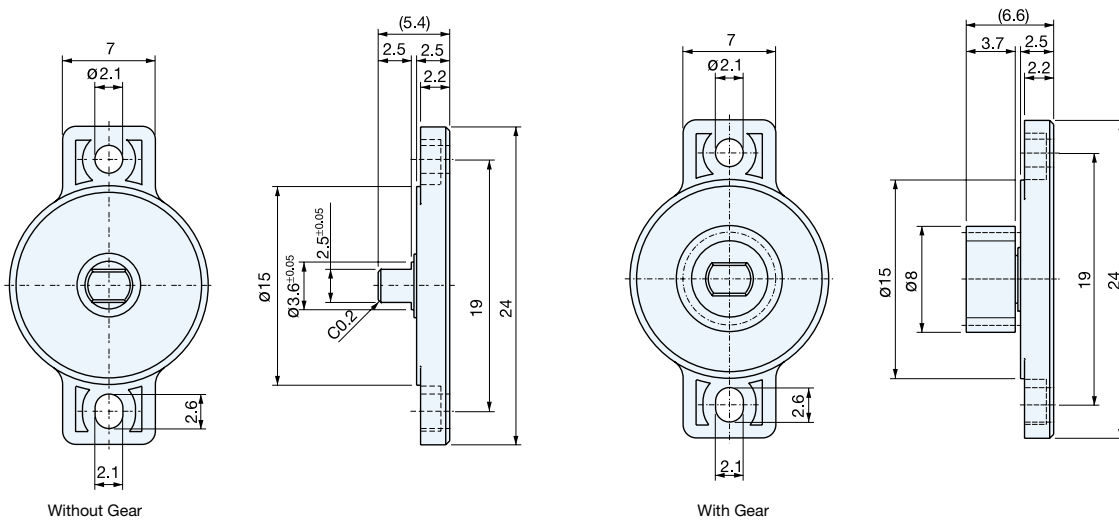
Gear Specification	
Type	Standard Spur Gear
Tooth	Involute (Full)
Module	0.6mm
Pressure Angle	20°
Number of Teeth	10
Pitch Circle Diameter	6mm

ROTARY DAMPER (TWO WAY)

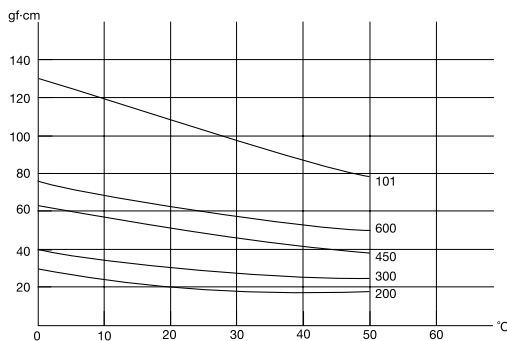
SRT-G2



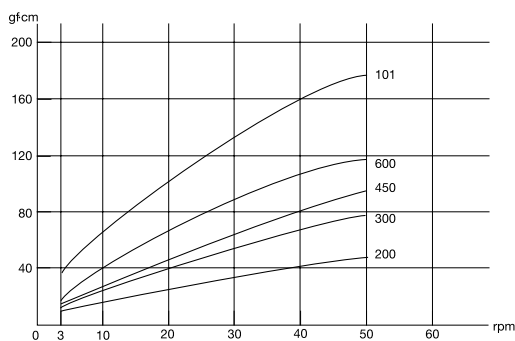
Part Name	Material
Body	Polycarbonate
Shaft	Polyacetal
Gear	Polyacetal



Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



Item No.	Gear	Torque (gf-cm)	Weight (g)	Box (pcs)	Carton (pcs)
SRT-G2-200	Without	20(0.28in-oz)	0.6	1000	5000
SRT-G2-200G1	With		0.8	1000	5000
SRT-G2-300	Without	30(0.42in-oz)	0.6	1000	5000
SRT-G2-300G1	With		0.8	1000	5000
SRT-G2-450	Without	45(0.63in-oz)	0.6	1000	5000
SRT-G2-450G1	With		0.8	1000	5000
SRT-G2-600	Without	60(0.83in-oz)	0.6	1000	5000
SRT-G2-600G1	With		0.8	1000	5000
SRT-G2-101	Without	100(1.39in-oz)	0.6	1000	5000
SRT-G2-101G1	With		0.8	1000	5000

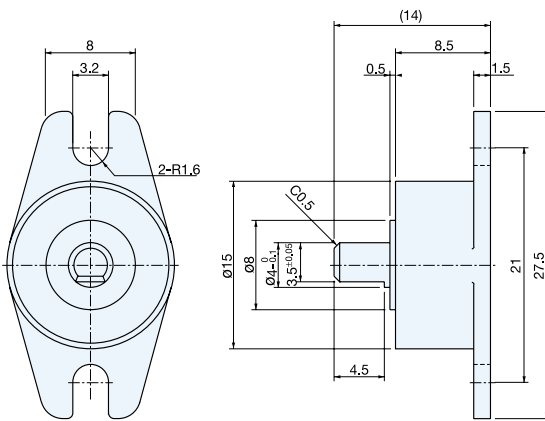
Gear Specification	
Type	Standard Spur Gear
Tooth	Involute (Full)
Module	0.5mm
Pressure Angle	20°
Number of Teeth	14
Pitch Circle Diameter	7mm

ROTARY DAMPER (ONE / TWO WAY)

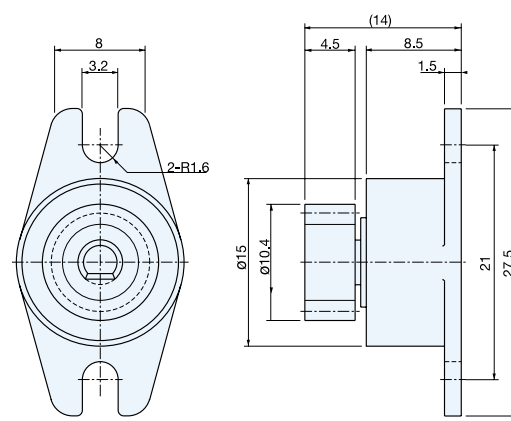
SRT-C2, SRN-C2



Part Name	Material	
	SRT-C2	SRN-C2
Body	Polycarbonate	
Shaft	Polyacetal	303 Stainless Steel
Gear	Polyacetal	

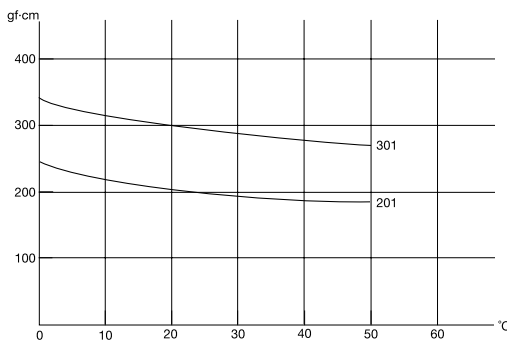


Without Gear

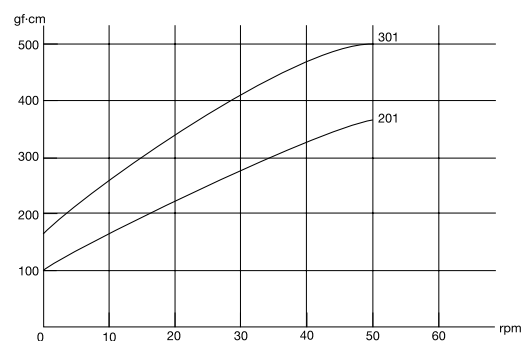


With Gear

Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



Item No.	Gear	Torque (gf-cm)	Dampening Direction	Weight (g)	Box (pcs)	Carton (pcs)
SRT-C2-201	Without	200(2.78in-oz)	Two Way	2.1	500	1000
SRT-C2-201G1	With			2.4	500	1000
SRT-C2-301	Without	300(4.17in-oz)	Two Way	2.1	500	1000
SRT-C2-301G1	With			2.4	500	1000
SRN-C2-R301	Without		Clockwise	3.2	500	1000
SRN-C2-R301G1	With			3.5	500	1000
SRN-C2-L301	Without		Counter Clockwise	3.2	500	1000
SRN-C2-L301G1	With			3.5	500	1000

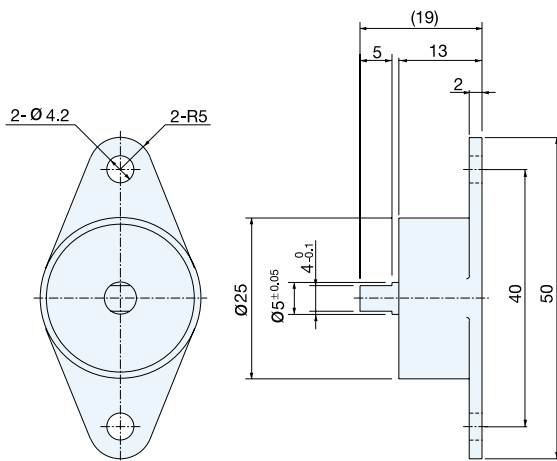
Gear Specification	
Type	Standard Spur Gear
Tooth	Involute (Full)
Module	0.8mm
Pressure Angle	20°
Number of Teeth	11
Pitch Circle Diameter	8.8mm

ROTARY DAMPER (ONE / TWO WAY)

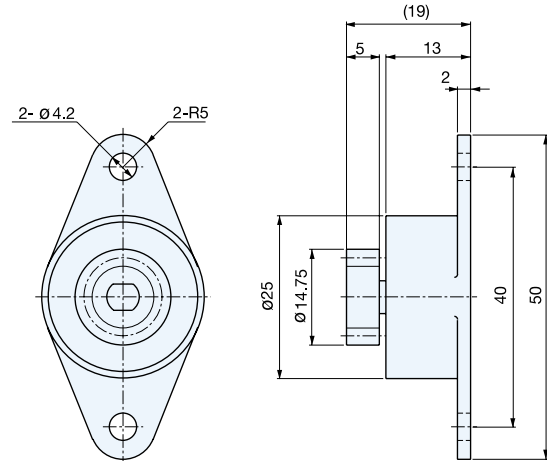
SRT-D2, SRN-D2



Part Name	Material	
	SRT-D2	SRN-D2
Body	Polycarbonate	
Shaft	Polyacetal	420 Stainless Steel
Gear	Polyacetal	

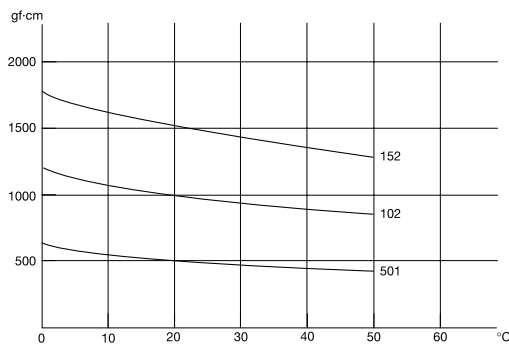


Without Gear

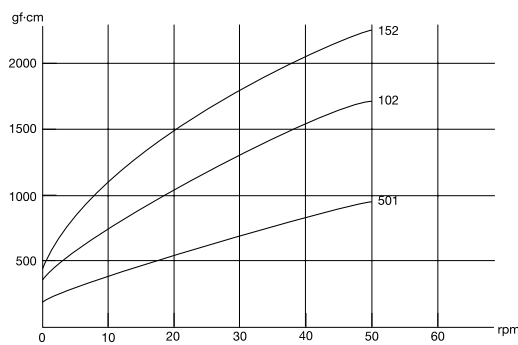


With Gear

Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



*Add "G2" after item number to order damper with gear.

Item No.	Torque (gf-cm)	Dampening Direction	Weight (g)	Box (pcs)	Carton (pcs)
SRT-D2-501	500(6.94in-oz)	Two Way	8.3 (With Gear:8.9)	100	500
SRT-D2-102	1000(13.89in-oz)			100	500
SRT-D2-152	1500(20.83in-oz)			100	500
SRN-D2-R501	500(6.94in-oz)	Clockwise	11.8 (With Gear:12.4)	100	500
SRN-D2-L501		Counter Clockwise		100	500
SRN-D2-R102		Clockwise		100	500
SRN-D2-L102	Counter Clockwise	100		500	
SRN-D2-R152	1500(20.83in-oz)	Clockwise		100	500
SRN-D2-L152		Counter Clockwise		100	500

Gear Specification	
Type	Modified Spur Gear
Tooth	Involute (Full)
Module	1mm
Pressure Angle	20°
Number of Teeth	12
Pitch Circle Diameter	12mm

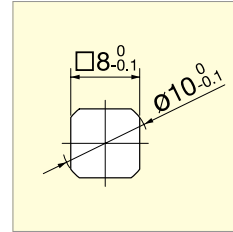
DISK DAMPER (TWO WAY)

SDT-47A, 57A

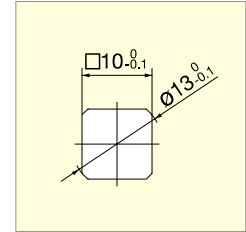


Part Name	Material
Body	Steel
Socket	Nylon with Glass Fiber

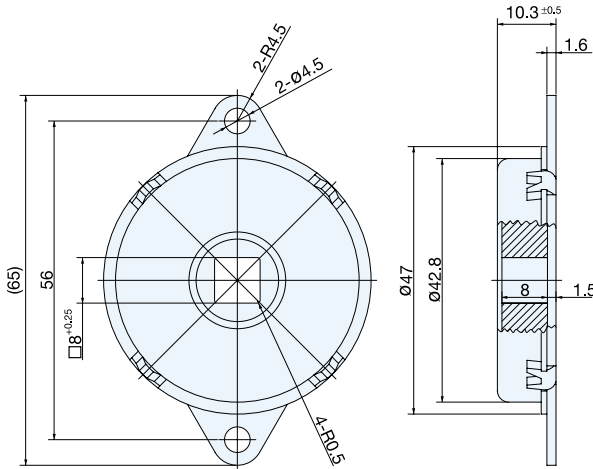
*Shaft must be supported by stationary part.
Damper can only take torque load.



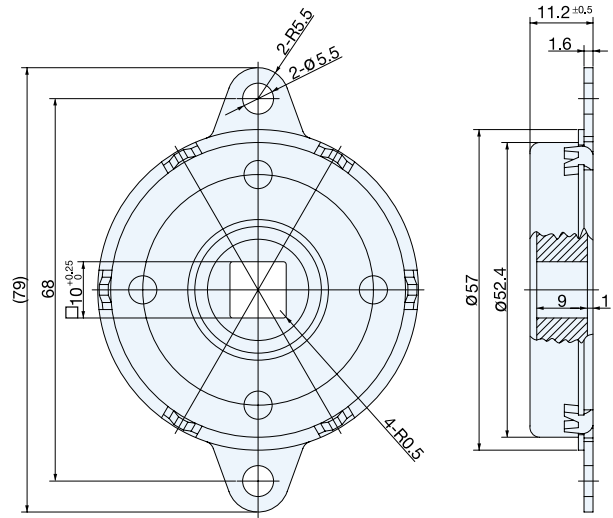
SDT-47A-203
Recommended Shaft Dimension



SDT-57A-503
Recommended Shaft Dimension

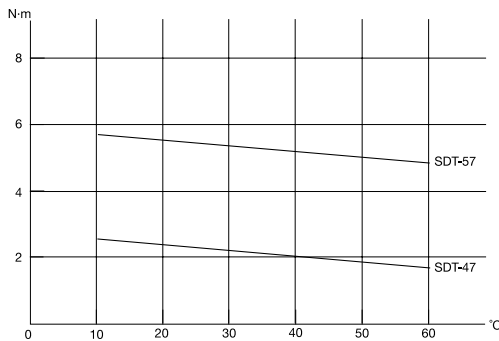


SDT-47A-203

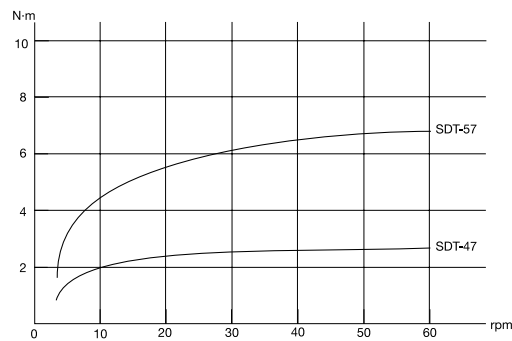


SDT-57A-503

Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



Item No.	Torque (kgf-cm)	Weight (g)	Carton (pcs)
SDT-47A-203	20 (17.36 lbs-in)	49	100
SDT-57A-503	47 (40.8 lbs-in)	75	100

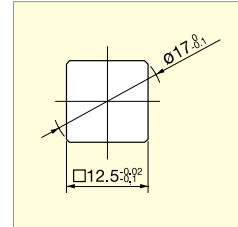
DISK DAMPER (TWO WAY)

SDT-63A, 70A

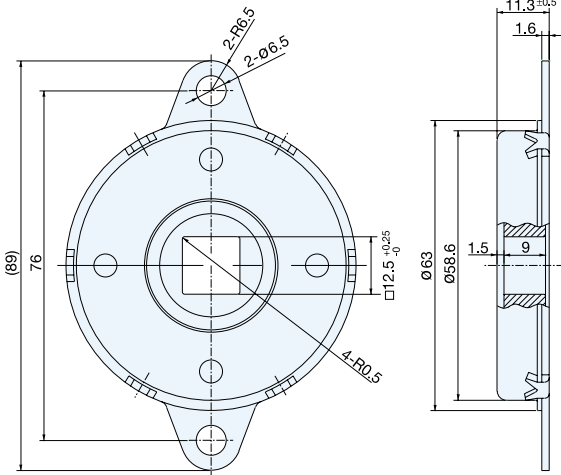


Part Name	Material
Body	Steel
Socket	Nylon with Glass Fiber

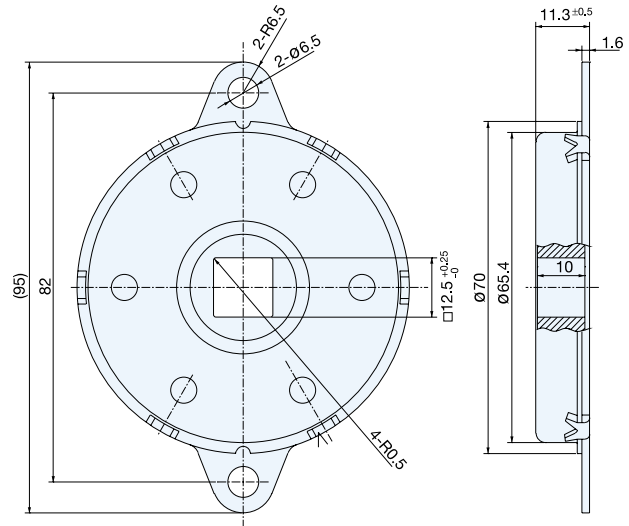
*Shaft must be supported by stationary part.
Damper can only take torque load.



Recommended Shaft Dimension

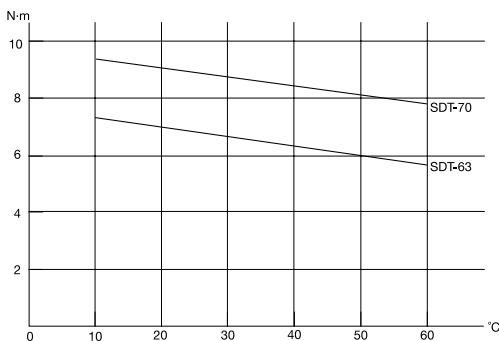


SDT-63A-703

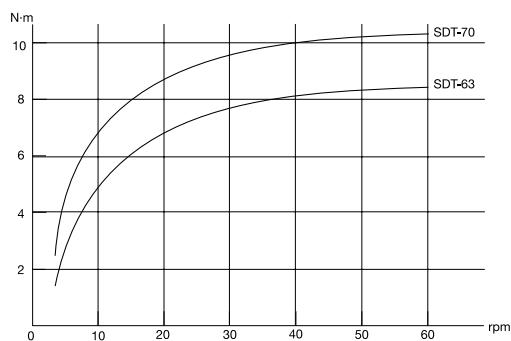


SDT-70A-903

Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)

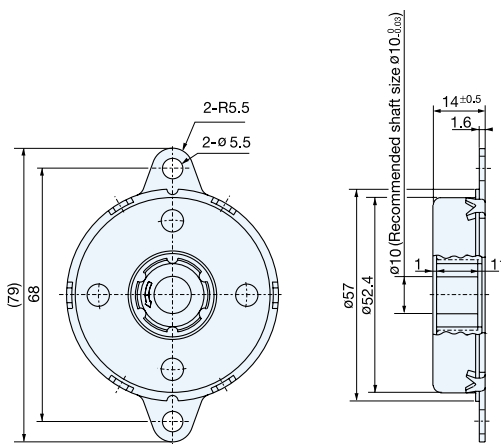


Item No.	Torque (kgf-cm)	Weight (g)	Carton (pcs)
SDT-63A-703	67 (58.16 lbs-in)	92	100
SDT-70A-903	87 (75.52 lbs-in)	112	100

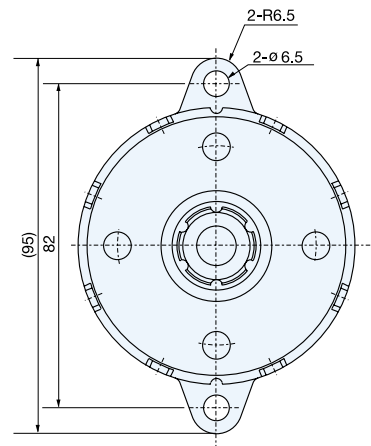
DISK DAMPER (ONE WAY)

SDN-57A, 70A

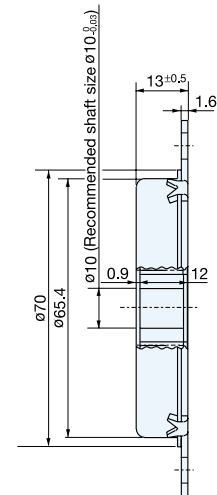
Part Name	Material
Body	Steel
Socket	Nylon with Glass Fiber



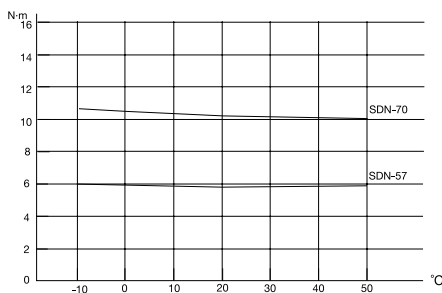
SDN-57A



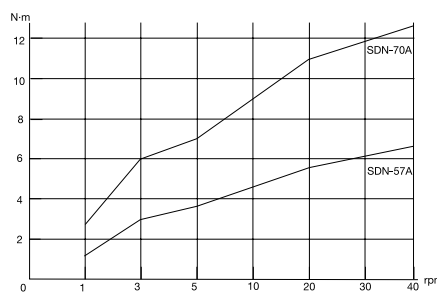
SDN-70A

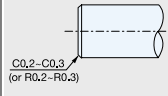


Torque at Different Temperature (20rpm)



Torque at Different Speed (23°C/73°F)



Recommended Shaft Spec.	
Shaft size	$\phi 10_{-0.03}^{0}$ mm
Hardness	Min. HRC 55
Hardening Depth	Min 0.5mm
Surface Roughness	Max. 1.0 μ m
End Chamfering	

When inserting shaft, insert by rotating shaft in the opposite direction of the dampening direction. Shaft must be supported by stationary part. Damper can only take torque load.

Item No.	Torque (kgf·cm)	Dampening Direction	Weight (g)	Carton (pcs)
SDN-57A-R553	55 (47.7 lbs·in)	Clockwise	94	100
SDN-57A-L553	55 (47.7 lbs·in)	Counter Clockwise	94	100
SDN-70A-R114	110 (95.5 lbs·in)	Clockwise	136	100
SDN-70A-L114	110 (95.5 lbs·in)	Counter Clockwise	136	100

LAMP LAMP BRAND by SUGATSUNE



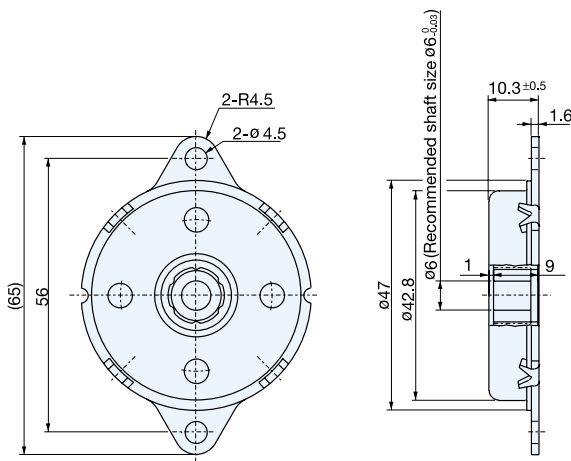
Customers outside of North America
www.sugatsune.co.jp
export@sugatsune.co.jp

North American Customers
www.sugatsune.net
 1-888-557-5267

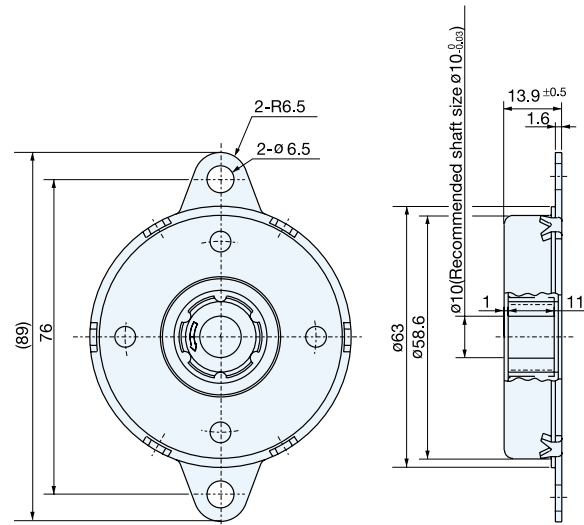
DISK DAMPER (ONE WAY)

SDN-47A, 63A

Part Name	Material
Body	Steel
Socket	Nylon with Glass Fiber

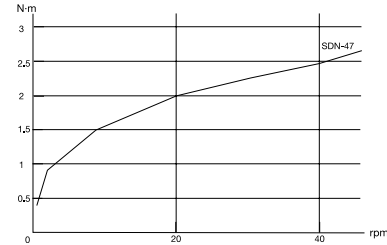


SDN-47A

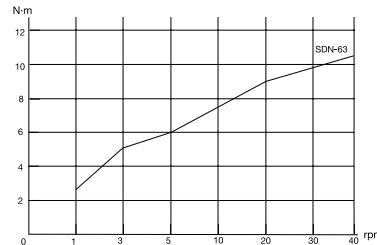


SDN-63A

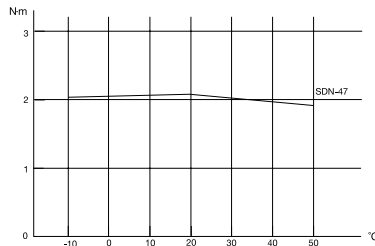
SDN-47A / Torque at Different Speed (23°C/73°F)



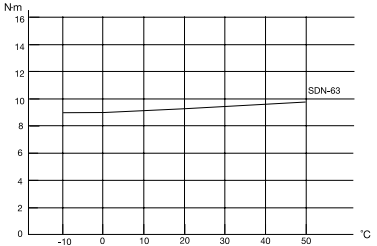
SDN-63A / Torque at Different Speed (23°C/73°F)



SDN-47A / Torque at Different Temperature (20rpm)



SDN-63A / Torque at Different Temperature (20rpm)

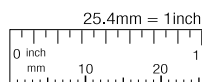


Recommended Shaft Spec.		
Shaft size	47A	63A
	Ø6 _{-0.03mm}	Ø10 _{-0.03mm}
Hardness	Min. HRC 55	
Hardening Depth	Min 0.5mm	
Surface Roughness	Max. 1.0µm	
End Chamfering		

When inserting shaft, insert by rotating shaft in the opposite direction of the dampening direction. Shaft must be supported by stationary part. Damper can only take torque load.

Item No.	Torque (kgf-cm)	Dampening Direction	Weight (g)	Carton (pcs)
SDN-47A-R203	20 (17.4 lbs-in)	Clockwise	55	100
SDN-47A-L203	20 (17.4 lbs-in)	Counter Clockwise	55	100
SDN-63A-R903	85 (73.8 lbs-in)	Clockwise	115	100
SDN-63A-L903	85 (73.8 lbs-in)	Counter Clockwise	115	100

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ADJUSTABLE VANE DAMPER (ONE/TWO WAY)

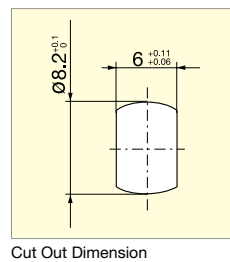
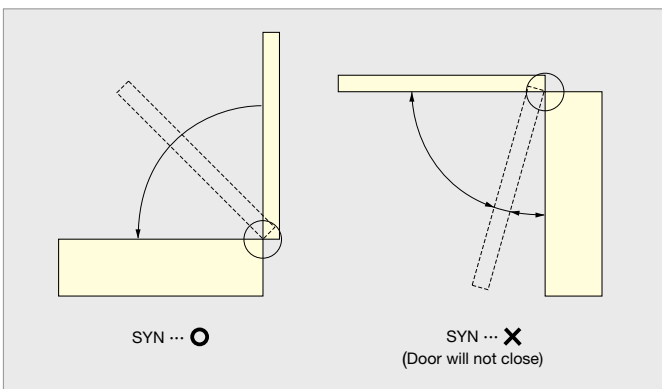
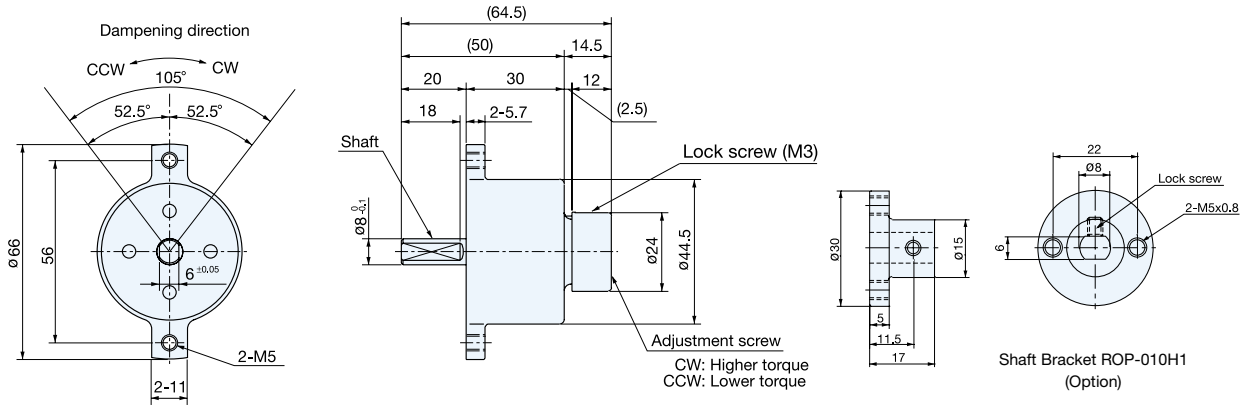
SYT, SYN



Part Name	Material
Body	Zinc Alloy
Shaft	Steel

* To adjust torque, loosen lock screw and turn the adjustment screw. Lock screw should be tightened after adjustment. Do not turn adjustment screw over 360°.

* Separate stopper at the open/closed position is needed to avoid continuous/excessive load on the damper.



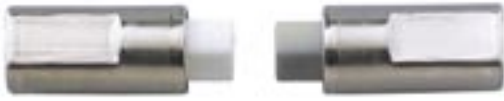
SYN is designed to provide maximum torque before lid is closed, as shown in picture. SYT provides even torque in all angles.

Item No.	Torque (kgf-cm)	Dampening Direction	Weight (g)	Box (pcs)	Carton (pcs)
SYT-H1-104	100 (86.9 lbs-in)	Two Way	240	10	20
SYN-H1-R104		Clockwise	240	10	20
SYN-H1-L104		Counter Clockwise	240	10	20

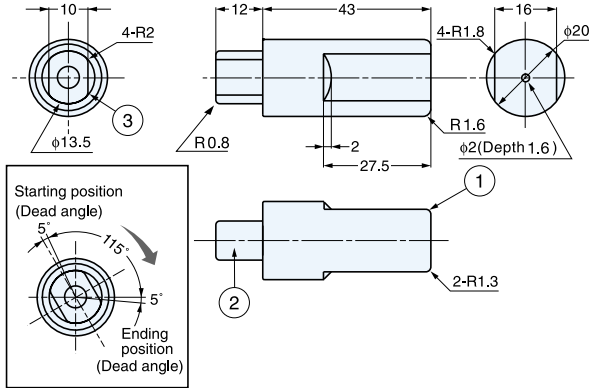
TORQUE DAMPER



UDH



PAT

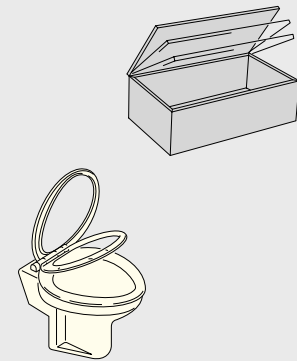


- Keeps lid from slamming shut.
- High torque within compact cartridge.
- Operating angle : 115° / Dead angle 5°
- Operating temperature: 0°C ~ 40°C (32°F ~ 104°F)

No.	Part Name	Material	Color
①	Body	304 Stainless Steel	-
②	Shaft	PBT Plastic	A-White B-Grey
③	Cover Ring	304 Stainless Steel	-

Item No.	Torque (kgf-cm)	Dampening Direction	Weight (g)	Carton (pcs)
UDH-AMS	15~25 (13~21 lbs-in)	Counter Clockwise	38	200
UDH-BMS		Clockwise		
UDH-AHS	25~35 (21~30 lbs-in)	Counter Clockwise		
UDH-BHS		Clockwise		
UDH-AGS	35~40 (30~34 lbs-in)	Counter Clockwise		

Application



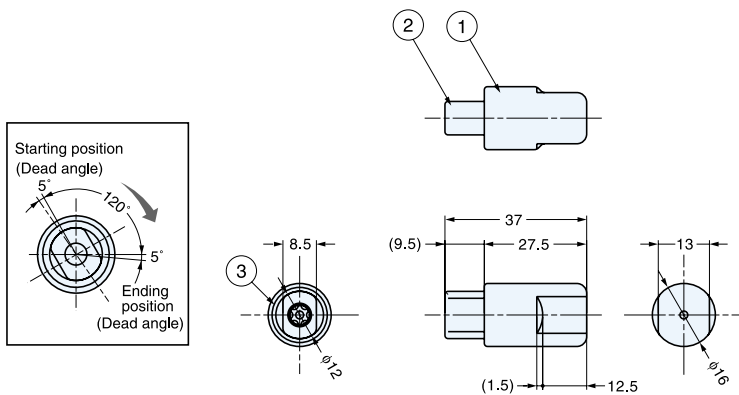
MINI TORQUE DAMPER



UDH-16



PAT



- Keeps lid from slamming shut.
- Compact cartridge type.
- Operating angle : 115° / Dead angle 5°
- Operating temperature: 0°C ~ 40°C (32°F ~ 104°F)

No.	Part Name	Material	Color
①	Body	304 Stainless Steel	-
②	Shaft	PBT Plastic	A-White B-Grey
③	Cover Ring		-

Item No.	Torque (kgf-cm)	Dampening Direction	Weight (g)	Carton (pcs)
UDH-16AMS	10.2~17.3 (8.8~15 lbs-in)	Counter Clockwise	16	200
UDH-16BMS		Clockwise		
UDH-16AHS	17.3~25.5 (15~22 lbs-in)	Counter Clockwise		
UDH-16BHS		Clockwise		

Sugatsune Rotary Damper

Sugatsune offers a wide range of dampening products for a variety of applications to create a smooth soft movement and function for everyday products. These types of products are found commonly in the household and workplace. Though unnoticed in most applications, dampers are a vital part of many of today's products to bring quality, safety, and durability to both simple and sophisticated products.

Quality and durability are the key criteria for the success of products being designed today. By incorporating the Sugatsune's rotary dampers, the smooth motion created by the dampening products will provide the quality movement enhancing the feel of a product. In addition, the same smooth motion will help to protect and prolong the sensitive components and moving parts. Finally, with the soft controlled motion will help to make products safer from preventing sudden motion causing injuries.

The Sugatsune dampers are available in various shape, size and functions for many of today's products. If you cannot find an item to fit your application, our engineers are capable of designing a product to suit your requirements.

Basic Structure

Rotary Damper

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

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.

Vane Damper

Oil viscosity is utilized to provide the "braking force" of the damper. The vane damper creates resistance by passing oil thru vanes in the housing creating pressure. The torque or "braking force" of the unit can be controlled by the size of the vane in the damper body. The vane size will control the amount of fluid passing from one chamber to the next in the damper body. The vane type is often much larger than the rotary type. Due to the size, the vane type is able to create much larger pressure which makes it able to handle larger dampening applications.

Applications

Furniture
Cabinets, Kitchen cabinets, office furniture, toy boxes, tool boxes, and storage access.
Toilet seats
Printers and copiers covers

Sugatsune Dampers are available in single direction dampening (unidirectional, one way) or dampening in both direction (bidirectional, two way). The dampers are available with or without the gear. There are also multiple gear options available on certain models. If the available models are not compatible to your application, please contact Sugatsune to assist with your custom applications.

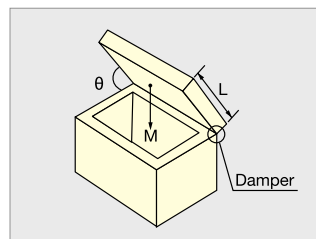
Torque Calculation

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

$$T \text{ (torque)} = L / 2 \times 9.8 \times M \text{ (N}\cdot\text{m)}$$

$$= L / 2 \times M \text{ (Kgf}\cdot\text{cm)}$$

L= Length from pivot point to end of lid
M= Weight of the lid (kg)



General Specification (For SR/SD/SY Dampers)

Series	Max. Speed	Max. Cycle Rate	Nominal Torque Rating	Operating Temperature	Storage Temperature
SR	50 rpm	10 cycles/min	At 20rpm, 23°C (73°F)	0~50°C (32~122°F)	-20~60°C (-4~140°F)
SD	50 rpm	12 cycles/min	At 20rpm, 23°C (73°F)	-10~50°C (14~122°F)	-20~60°C (-4~140°F)
SY	-	-	At 23°C (73°F)	-5~50°C (23~122°F)	-20~60°C (-4~140°F)

Ordering Information (for SR/SD/SY Dampers)

SRT-D2-R 501 G1

TYPE

N=One way
T=Two way

SERIES

DIRECTION

R=Clockwise
L=Counter clockwise
Blank=Two way

TORQUE

GEAR

G1= With gear
Blank= Without gear

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by SUGATSUNE



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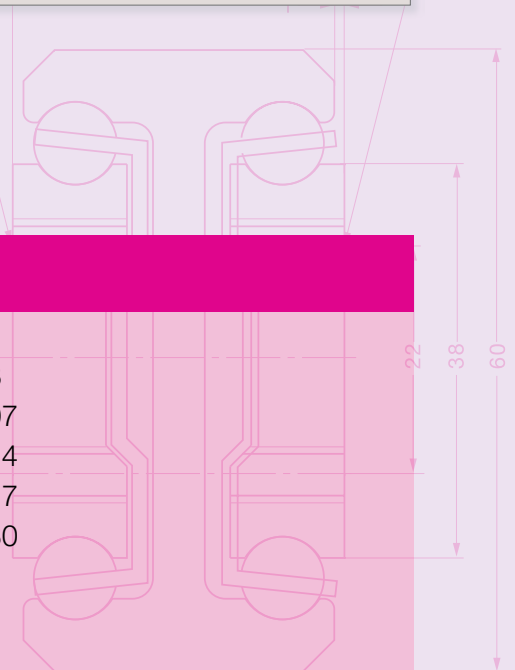
DRAWER SLIDES



M 6×1

DRAWER SLIDES

- FULL EXTENSION SLIDES (STAINLESS STEEL) — 98
- 3/4 EXTENSION SLIDES (STAINLESS STEEL) — 107
- ALUMINUM SLIDES — 114
- HEAVY DUTY SLIDES — 117
- TECHNICAL SPECIFICATION — 130



STAINLESS STEEL DRAWER SLIDE SERIES

ESR-4513 Page 98

Full extension
Front disconnect
Positive stop
Non-handed
Hold-in detent

LOAD RATING
40-52 kg
87-115 lbs

ESR-3813 Page 99

Full extension
Front disconnect
Positive stop
Non-handed
Hold-in detent

LOAD RATING
29-45 kg
64-98 lbs

2736 Page 100

Full extension
Front disconnect
Positive stop
Non-handed

LOAD RATING
26-32 kg
57-70 lbs

ESR-6 Page 101

Full extension
Positive stop
Non-handed

LOAD RATING
41-80 kg
90-176 lbs

ESR-7 Page 102

Full extension
Front disconnect
Positive lock
Non-handed

LOAD RATING
36-64 kg
79-139 lbs

ESR-3 Page 103

Full extension
Quick disconnect
Positive stop

LOAD RATING
43-65 kg
94-143 lbs

5302 Page 104

Full extension
Positive stop
Non-handed
Hold-in detent

LOAD RATING
64-130 kg
140-285 lbs

ESR-10 Page 105

Full extension
Positive stop
Non-handed
Heavy duty

LOAD RATING
182-272 kg
400-599 lbs

TSS3 Page 106

Full extension
Positive stop
Non-handed
Heavy duty

LOAD RATING
50-95 kg
110-209 lbs

2725 Page 107

3/4 extension
Front disconnect
Positive stop
Non-handed

LOAD RATING
24-27 kg
52-59 lbs

ESR-1 Page 108

3/4 extension
Front disconnect
Friction brake stop
Non-handed

LOAD RATING
25-49 kg
55-107 lbs

ESR-13 Page 109

3/4 extension
Positive stop
Positive catch
Non-handed

LOAD RATING
25-49 kg
55-107 lbs

ESR-8 Page 110

3/4 extension
Positive lock
Front disconnect
Non-handed

LOAD RATING
25-49 kg
55-107 lbs

ESR-5 Page 111

3/4 extension
Positive stop
Non-handed
Heavy duty

LOAD RATING
80-114 kg
176-251 lbs

ESR-2 Page 112

Under carriage mounting with bracket
3/4 extension
Front disconnect
Friction brake stop

LOAD RATING / 5-8 kg / 11-18 lbs

ESR-9 Page 113

Mounting plate attached

LOAD RATING
5 kg
11 lbs

ALUMINUM DRAWER SLIDE SERIES

AR-2 Page 114

3/4 extension
Positive stop
Non-handed

LOAD RATING
22-31 kg
50-70 lbs

AR-3 Page 114

Full extension
Positive stop
Non-handed

LOAD RATING
11-20 kg
25-45 lbs

MRS30, MR-50C Page 115

Aluminum rail with plastic guide block
ideal for small stroke application
No grease needed

5320 Page 116

Full extension
Positive stop
Non-handed
Hold-in detent

LOAD RATING
83-124 kg
182-273 lbs

STEEL DRAWER SLIDE SERIES

HEAVY DUTY STAINLESS STEEL DRAWER SLIDE SERIES

STAINLESS STEEL

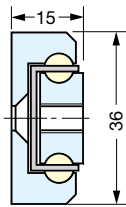
CBL-ST52

Page 117

3/4 extension
Positive stop

Available in U.S.A. only

LOAD RATING
50-120 kg
110-264 lbs



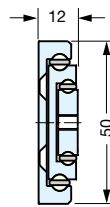
CBL-ST448

Page 119

Over travel
Positive stop

Available in U.S.A. only

LOAD RATING
40-80 kg
88-176 lbs



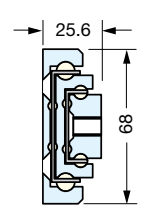
CBL-ST709

Page 122

15mm (19/32") over travel
Positive stop

Available in U.S.A. only

LOAD RATING
130-240 kg
286-528 lbs



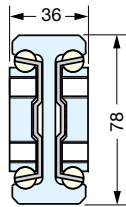
CBL-E1908

Page 125

Full extension
Positive stop

Available in U.S.A. only

LOAD RATING
265-535 kg
583-1177 lbs



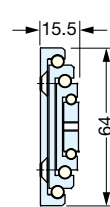
CBL-ST658

Page 127

Ultra over travel
Positive stop

Available in U.S.A. only

LOAD RATING
30-45 kg
66-99 lbs



HEAVY DUTY STEEL DRAWER SLIDE SERIES

STEEL

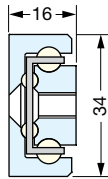
CBL-R53

Page 117

3/4 extension
Positive stop

Available in U.S.A. only

LOAD RATING
65-135 kg
143-297 lbs



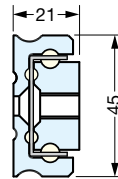
CBL-R71

Page 118

3/4 extension
Positive stop

Available in U.S.A. only

LOAD RATING
170-310 kg
374-682 lbs



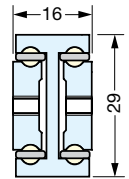
CBL-E1400

Page 120

Full extension
Positive stop

Available in U.S.A. only

LOAD RATING
80-130 kg
176-286 lbs



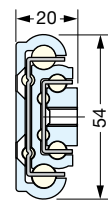
CBL-RA5R

Page 121

15mm (19/32") over travel
Positive stop

Available in U.S.A. only

LOAD RATING
60-150 kg
132-330 lbs



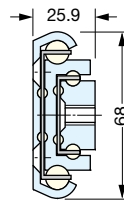
CBL-RA7R

Page 122

15mm (19/32") over travel
Positive stop

Available in U.S.A. only

LOAD RATING
150-340 kg
330-748 lbs



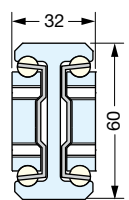
CBL-E1700

Page 123

Full extension
Positive stop

Available in U.S.A. only

LOAD RATING
290-565 kg
638-1243 lbs



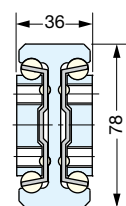
CBL-E1902

Page 124

Full extension
Positive stop

Available in U.S.A. only

LOAD RATING
550-950 kg
1210-2090 lbs



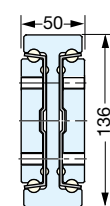
CBL-E1020

Page 126

Full extension
Positive stop

Available in U.S.A. only

LOAD RATING
900-1250 kg
1980-2750 lbs



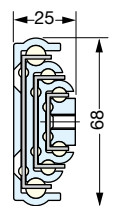
CBL-RA554R

Page 128

Ultra over travel
Positive stop

Available in U.S.A. only

LOAD RATING
55-95 kg
121-209 lbs



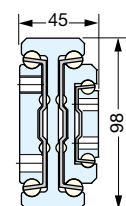
CBL-E1014

Page 129

Ultra over travel
Positive stop

Available in U.S.A. only

LOAD RATING
300-500 kg
660-1100 lbs



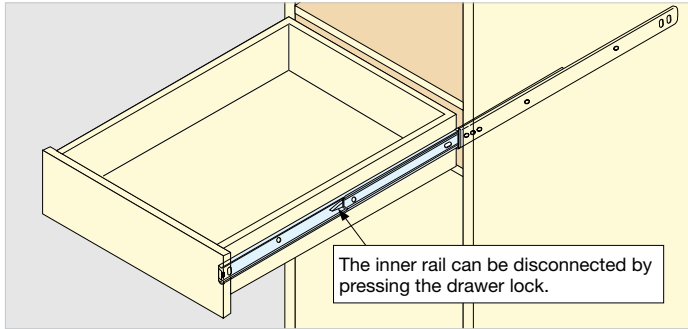
DRAWER SLIDES

CROSS SECTION TABLE

FULL EXTENSION SLIDE



ESR-4513



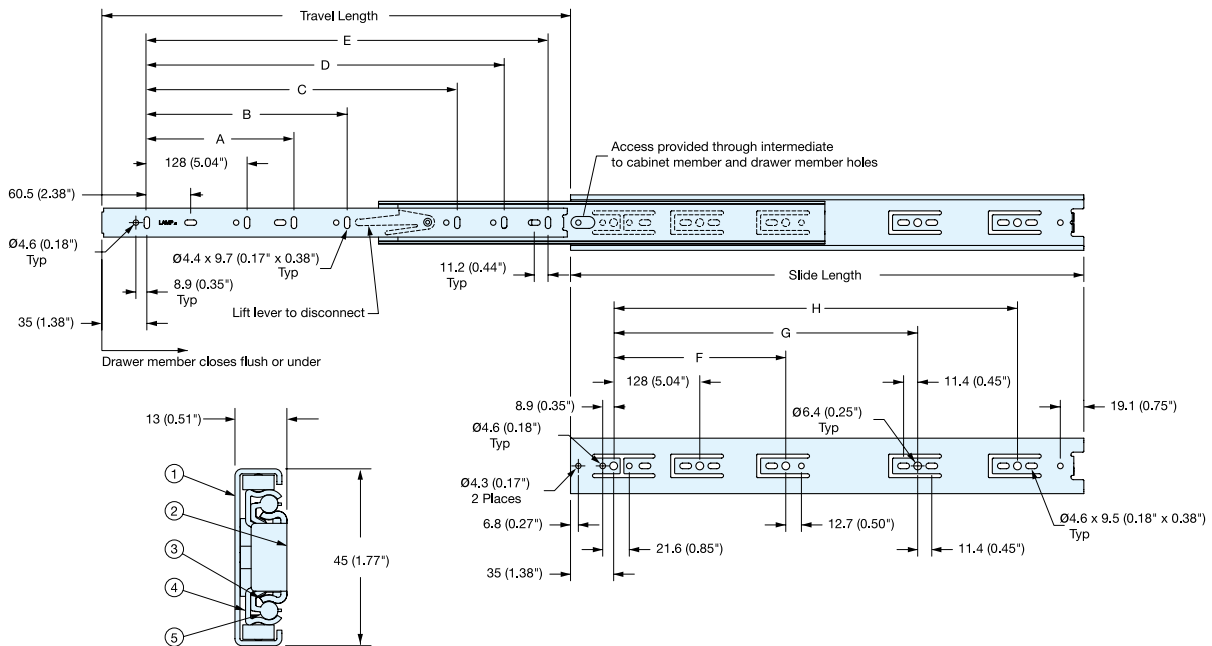
Installation

- Full extension
- Front disconnect
- Positive stop
- Non-handed
- Hold-in detent

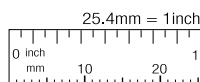
No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Innner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

*Sold in pair.

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



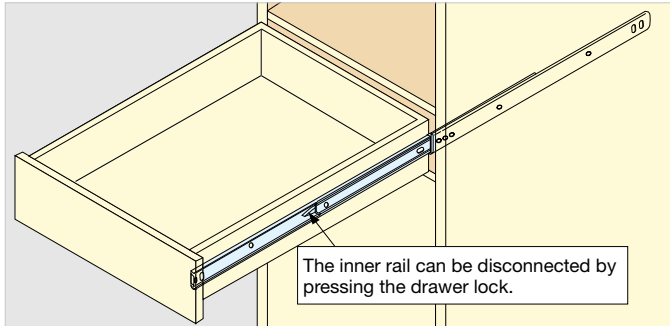
Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Rating (kg/pair)	Weight (g)	Box (Pair)
ESR-4513-10	250 (9-27/32")	243 (9-9/16")	-	-	-	-	192	-	-	-	52 (115 lbs)	743 (26.2 oz)	10
ESR-4513-12	300 (11-13/16")	305 (12")	-	-	-	-	242	224	-	-	50 (111 lbs)	932 (32.9 oz)	10
ESR-4513-14	350 (13-25/32")	355 (14")	-	-	-	-	292	224	-	-	49 (108 lbs)	1070 (37.8 oz)	10
ESR-4513-16	400 (15-3/4")	406 (16")	-	-	-	-	342	224	320	-	47 (104 lbs)	1223 (43.2 oz)	10
ESR-4513-18	450 (17-23/32")	457 (18")	-	-	320	-	392	224	352	-	46 (100 lbs)	1376 (48.6 oz)	10
ESR-4513-20	500 (19-11/16")	508 (20")	-	-	320	-	442	224	416	-	44 (97 lbs)	1530 (54 oz)	10
ESR-4513-22	550 (21-21/32")	559 (22")	-	-	320	416	492	224	352	448	43 (95 lbs)	1682 (59.3 oz)	10
ESR-4513-24	600 (23-5/8")	610 (24")	224	-	416	-	542	224	352	480	42 (92 lbs)	1835 (64.7 oz)	10
ESR-4513-26	650 (25-19/32")	660 (26")	224	-	416	544	592	224	352	544	41 (90 lbs)	1988 (70.1 oz)	10
ESR-4513-28	700 (27-9/16")	711 (28")	224	288	416	544	642	224	352	544	40 (87 lbs)	2141 (75.5 oz)	10



FULL EXTENSION SLIDE



ESR-3813



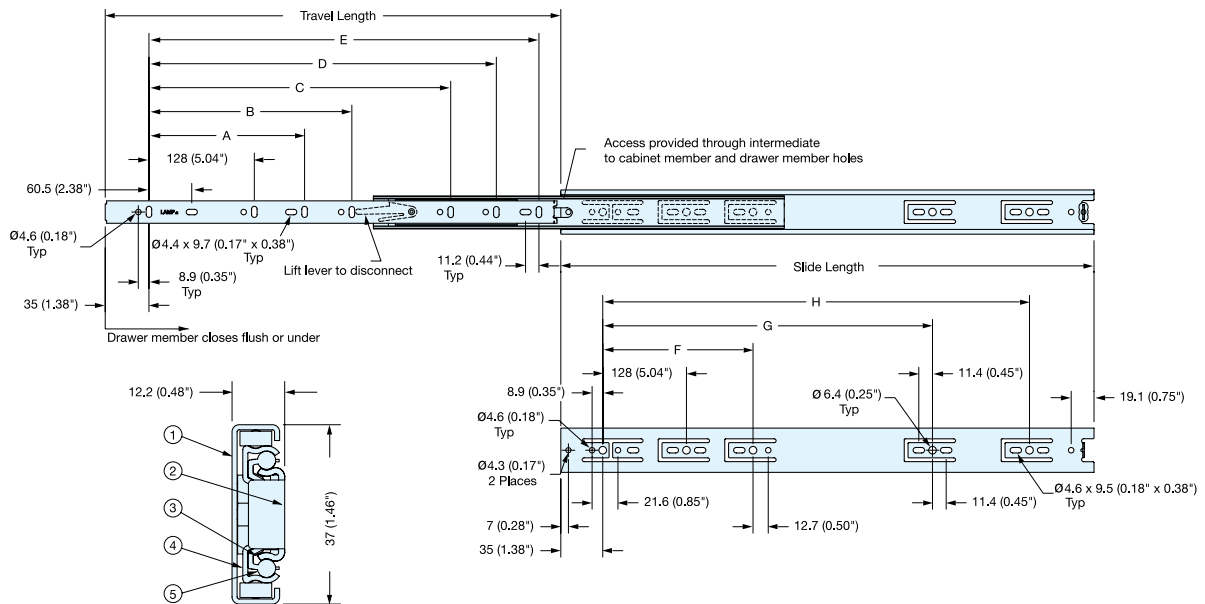
Installation

- Full extension
- Front disconnect
- Positive stop
- Non-handed
- Hold-in detent

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	

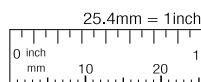
*Sold in pair.

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Rating (kg/pair)	Weight (g)	Box (Pair)
ESR-3813-8	200 (7-7/8")	200 (7-7/8")	-	-	-	-	142	-	-	-	45 (98 lbs)	400 (14.1 oz)	10
ESR-3813-10	250 (9-27/32")	243 (9-9/16")	-	-	-	-	192	-	-	-	42 (92 lbs)	530 (18.7 oz)	10
ESR-3813-12	300 (11-13/16")	305 (12")	-	-	-	-	242	224	-	-	40 (88 lbs)	637 (32.9 oz)	10
ESR-3813-14	350 (13-25/32")	355 (14")	-	-	-	-	292	224	-	-	38 (84 lbs)	1070 (37.8 oz)	10
ESR-3813-16	400 (15-3/4")	406 (16")	-	-	-	-	342	224	320	-	36 (79 lbs)	1223 (43.2 oz)	10
ESR-3813-18	450 (17-23/32")	457 (18")	-	-	320	-	392	224	352	-	34 (75 lbs)	1376 (48.6 oz)	10
ESR-3813-20	500 (19-11/16")	508 (20")	-	-	320	-	442	224	416	-	33 (73 lbs)	1530 (54 oz)	10
ESR-3813-22	550 (21-21/32")	559 (22")	-	-	320	416	492	224	352	448	31 (68 lbs)	1682 (59.3 oz)	10
ESR-3813-24	600 (23-5/8")	610 (24")	224	-	416	-	542	224	352	480	29 (64 lbs)	1835 (64.7 oz)	10

LAMP BRAND by SUGATSUNE



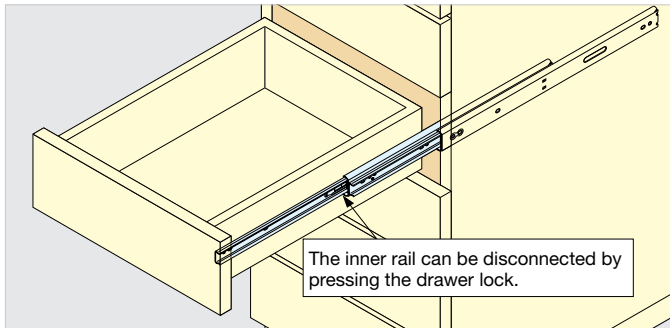
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FULL EXTENSION SLIDE



2736



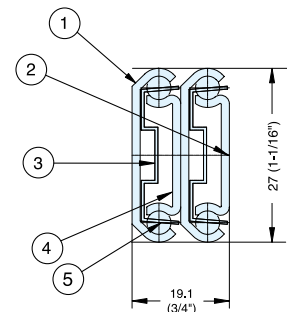
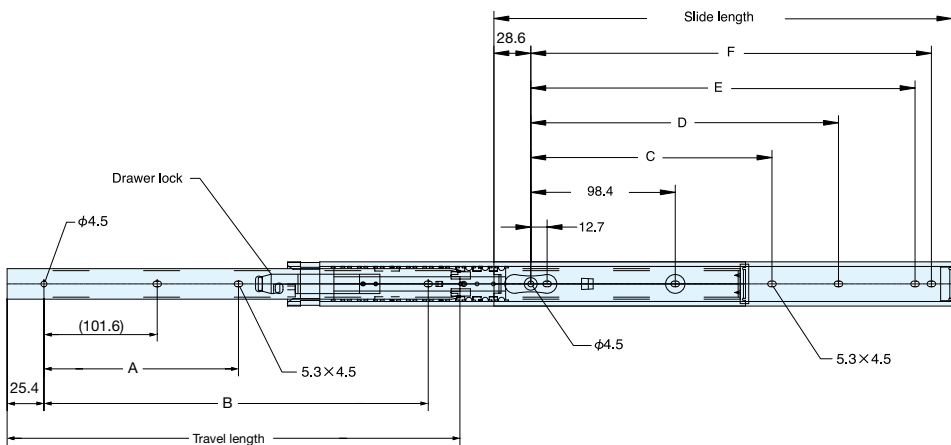
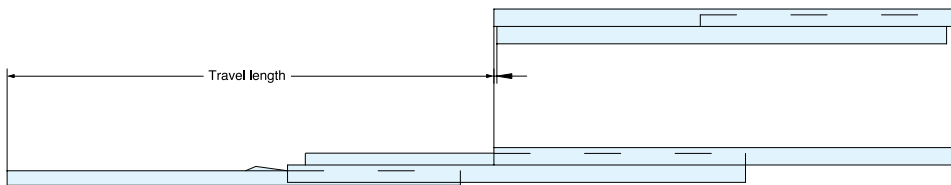
Installation

- Full extension
- Front disconnect
- Positive stop
- Non-handed

No.	Part	Material
①	Outer Rail	304 Stainless Steel
②	Inner Rail	
③	Retainer	
④	Intermediate Member	
⑤	Balls	440C Stainless Steel*

*304 Stainless Steel ball version available upon request.

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	Load Rating (kg/pair)	Weight (g)	Box (pcs)
2736- 8A	203 (8")	225 (8-7/8")	-	162.6	-	-	146	158.7	31 (68 lbs)	318	10
2736- 10A	254 (10")	276 (10-7/8")	-	203.2	-	-	196.8	209.5	32 (70 lbs)	398	10
2736- 12A	304 (12")	327 (12-7/8")	-	254	-	136.5	247.6	260.3	32 (70 lbs)	476	10
2736- 14A	355 (14")	378 (14-7/8")	-	304.8	-	187.3	298.4	311.1	32 (70 lbs)	556	10
2736- 16A	406 (16")	429 (16-7/8")	158.8	355.6	-	238.1	349.2	361.9	32 (70 lbs)	636	10
2736- 18A	457 (18")	480 (18-7/8")	177.8	406.4	200	288.9	400	412.7	29 (63 lbs)	716	10
2736- 20A	508 (20")	530 (20-7/8")	203.2	457.2	225.4	339.7	450.8	463.5	26 (57 lbs)	795	10

FULL EXTENSION SLIDE

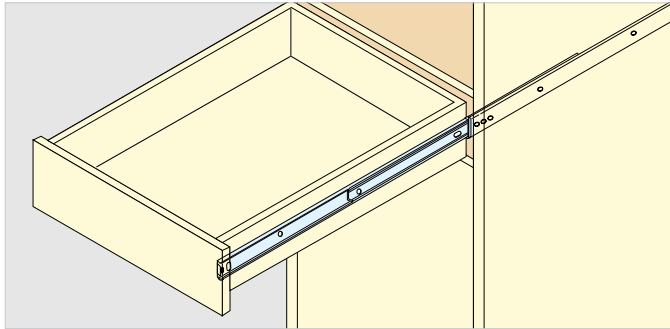


ESR-6



DRAWER SLIDES

STAINLESS STEEL SLIDE

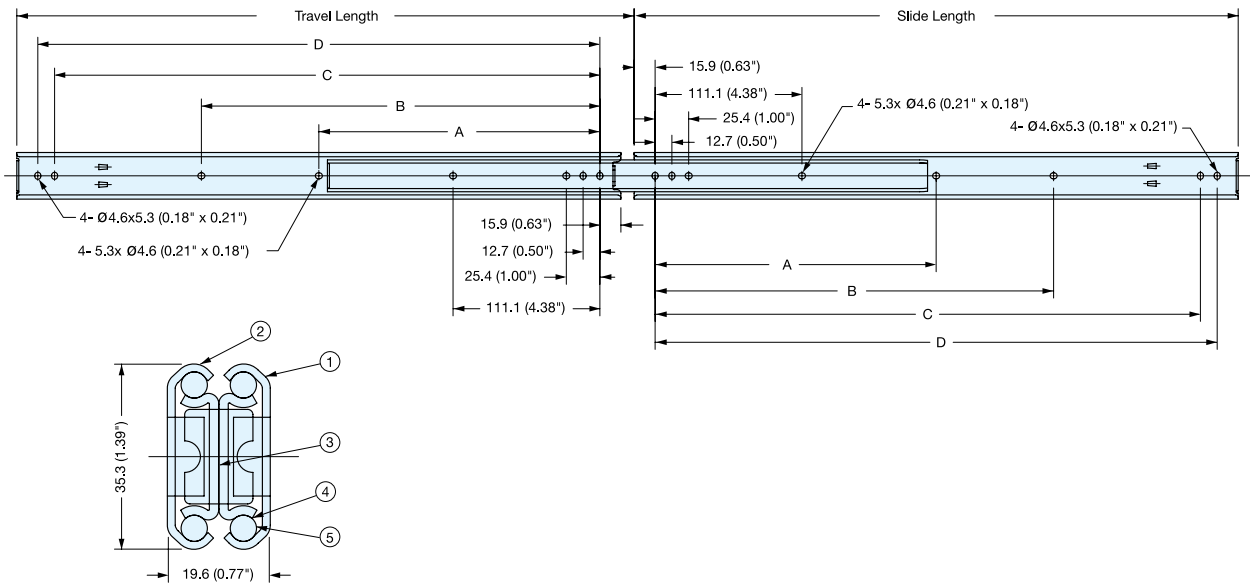


Installation

- Full extension
- Positive stop
- Non-handed

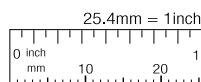
No.	Part	Material
①	Drawer Member	304 Stainless Steel BA
②	Cabinet Member	
③	Intermediate Member	
④	Retainer	304 Stainless Steel
⑤	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	# of Holes Outer Rail	Load Rating (kg/pair)	Weight (g)	Box (pcs)
ESR-6-14	355.6 (14")	369.8 (14-9/16")	-	199.9	311.2	323.9	7	77 (169 lbs)	710	10
ESR-6-16	406.4 (16")	420.6 (16-9/16")	-	250.7	362	374.7	7	73 (160 lbs)	810	10
ESR-6-18	457.2 (18")	471.4 (18-9/16")	212.6	301.5	412.8	425.5	8	68 (149 lbs)	920	10
ESR-6-20	508 (20")	522.2 (20-9/16")	238	352.3	463.6	476.3	8	65 (143 lbs)	980	10
ESR-6-22	558.8 (22")	573 (22-9/16")	263.4	403.1	514.4	527.1	8	59 (129 lbs)	1120	10
ESR-6-24	609.6 (24")	623.8 (24-9/16")	288.8	453.9	565.2	577.9	8	52 (114 lbs)	1230	10
ESR-6-26	660.4 (26")	674.6 (26-9/16")	314.2	504.7	616	628.7	8	48 (105 lbs)	1330	10
ESR-6-28	711.2 (28")	725.4 (28-9/16")	339.6	555.5	666.8	679.5	8	41 (90 lbs)	1440	10

LAMP LAMP BRAND by SUGATSUNE



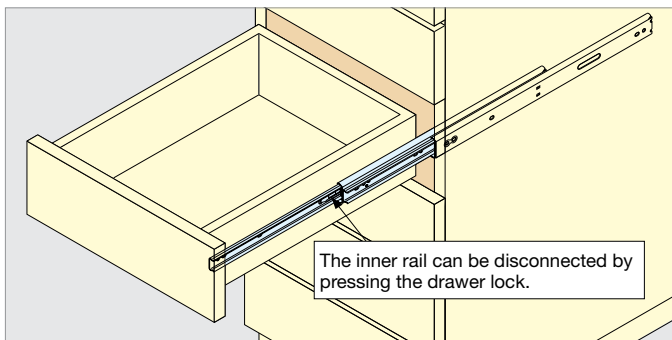
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FULL EXTENSION SLIDE



ESR-7

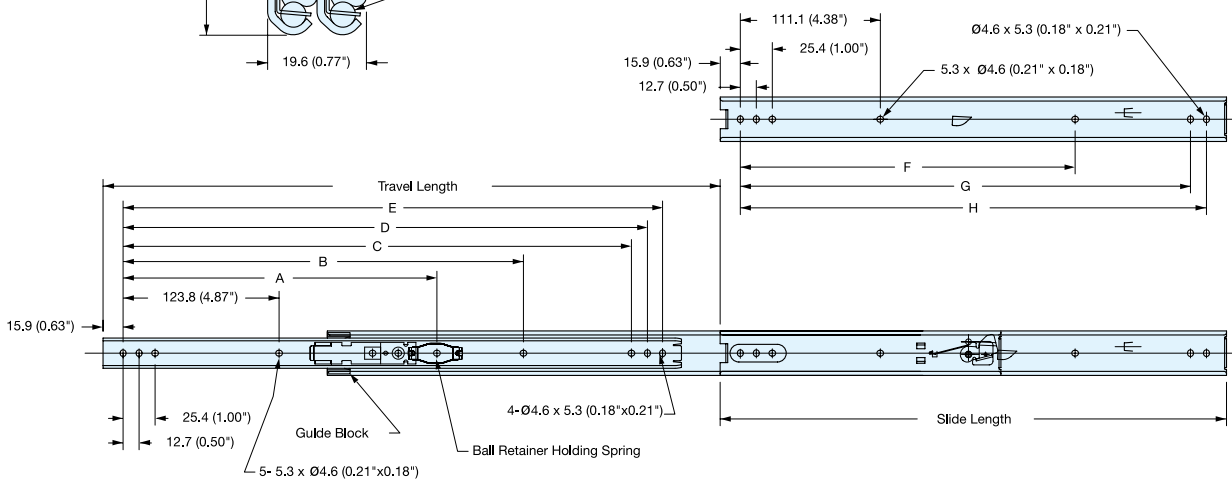
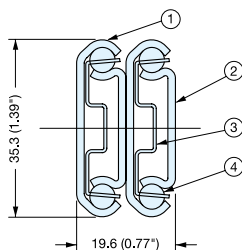


Installation

- Full extension
- Front disconnect
- Positive lock
- Non-handed

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Retainer	304 Stainless Steel
④	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	H	# of Holes		Load Rating (kg/pair)	Weight (g)	Box (pcs)
											Inner Rail	Outer Rail			
ESR-7-12	304.8 (12")	336 (13-7/32")	-	-	-	260.3	273	-	260.3	273	5	6	64 (139 lbs)	640	10
ESR-7-14	355.6 (14")	386.8 (15-7/32")	-	-	-	311.1	323.8	-	311.1	323.8	6	6	60 (131 lbs)	740	10
ESR-7-16	406.4 (16")	437.6 (17-7/32")	-	-	349.2	361.9	374.6	250.8	361.9	374.6	6	7	57 (124 lbs)	840	10
ESR-7-18	457.2 (18")	488.4 (19-7/32")	212.7	-	400	412.7	425.4	301.6	412.7	425.4	7	7	53 (115 lbs)	950	10
ESR-7-20	508 (20")	539.2 (21-7/32")	238.1	-	450.8	463.5	476.2	352.4	463.5	476.2	8	7	49 (106 lbs)	1030	10
ESR-7-22	558.8 (22")	590 (23-7/32")	263.5	415.9	501.6	514.3	527	403.2	514.3	527	8	7	45 (99 lbs)	1150	10
ESR-7-24	609.6 (24")	640.8 (25-7/32")	288.9	466.7	552.4	565.1	577.8	454	565.1	577.8	8	7	42 (92 lbs)	1280	10
ESR-7-26	660.4 (26")	691.6 (27-7/32")	314.3	517.5	603.2	615.9	628.6	504.8	615.9	628.6	8	7	39 (85 lbs)	1400	10
ESR-7-28	711.2 (28")	742.4 (29-7/32")	339.7	568.3	654	666.7	679.4	555.6	666.7	679.4	8	7	36 (79 lbs)	1500	10



FULL EXTENSION SLIDE

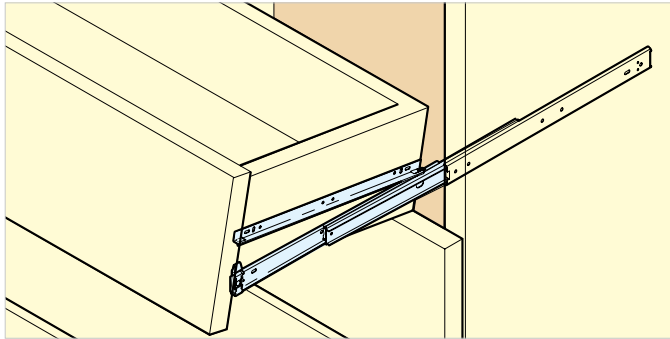


ESR-3



DRAWER SLIDES

STAINLESS STEEL SLIDE



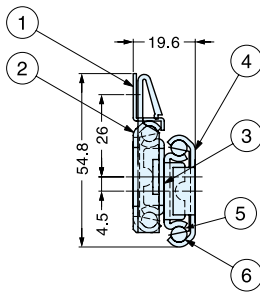
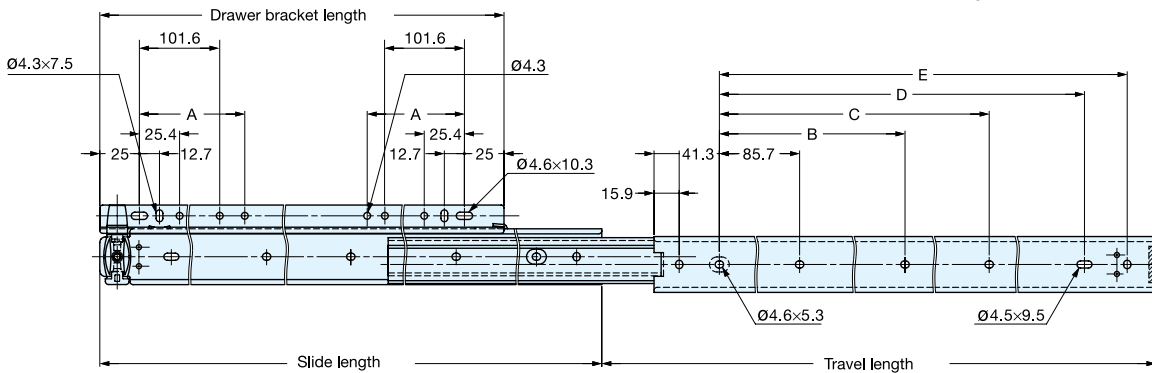
Installation

- Full extension
- Quick disconnect
- Positive stop

No.	Part	Material
①	Drawer Bracket	304 Stainless Steel BA
②	Inner Rail	
③	Intermediate Member	
④	Outer Rail	
⑤	Retainer	
⑥	Balls	304 Stainless Steel

*Sold in pair.

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



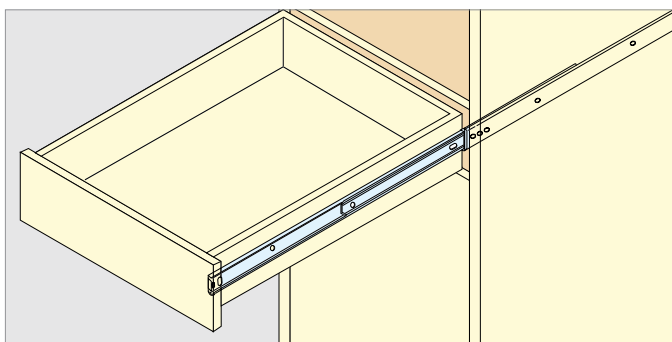
*ESR-3 is handed. Right-hand slide is shown above.

Item No.	Slide Length	Travel Length	Drawer Bracket Length	A	B	C	D	E	#of Holes Outer Rail	Load Rating (kg/pair)	Weight (g)	Box (Pair)
ESR-3-12	304.8 (12")	332.4 (13-3/32")	273 (10-3/4")	-	-	123.1	218.3	245.3	6	65 (143 lbs)	680	10
ESR-3-14	355.6 (14")	383.2 (15-3/32")	273 (10-3/4")	-	-	173.9	269.1	296.1	6	61 (134 lbs)	780	10
ESR-3-16	406.4 (16")	434 (17-3/32")	375 (14-49/64")	-	-	224.7	319.9	346.9	6	61 (134 lbs)	910	10
ESR-3-18	457.2 (18")	484.8 (19-3/32")	375 (14-49/64")	-	187.3	275.5	370.7	397.7	7	56 (123 lbs)	1010	8
ESR-3-20	508 (20")	535.6 (21-3/32")	375 (14-49/64")	-	212.7	326.3	421.5	448.5	7	52 (114 lbs)	1110	8
ESR-3-22	558.8 (22")	586.4 (23-3/32")	527 (20-3/4")	177.8	238.1	377.1	472.3	499.3	7	52 (114 lbs)	1260	6
ESR-3-24	609.6 (24")	637.2 (25-3/32")	527 (20-3/4")	177.8	263.5	427.9	523.1	550.1	7	48 (105 lbs)	1370	6
ESR-3-26	660.4 (26")	688 (27-3/32")	575.3 (22-21/32")	177.8	288.9	478.7	573.9	600.9	7	43 (94 lbs)	1480	6
ESR-3-28	711.2 (28")	738.8 (29-3/32")	575.3 (22-21/32")	177.8	314.3	529.5	624.7	651.7	7	43 (94 lbs)	1580	6

FULL EXTENSION SLIDE



5302

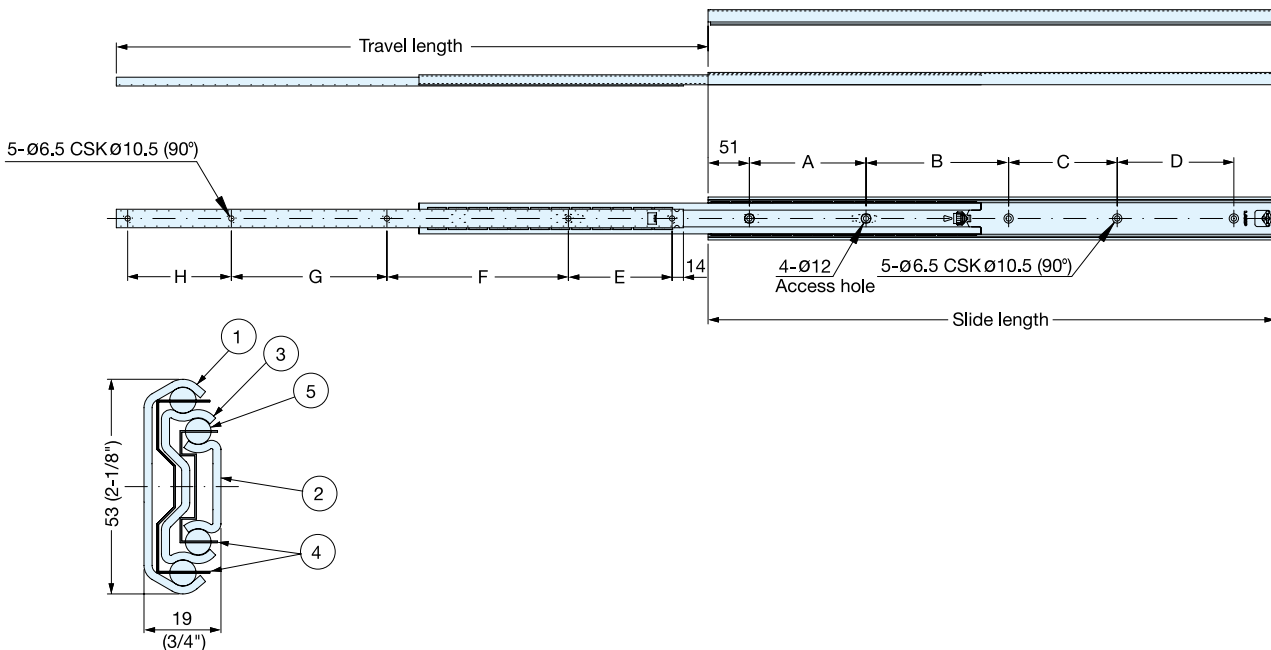


Installation

- Full extension
- Positive stop
- Non-handed
- Hold-in detent

No.	Part	Material
①	Cabinet Member	304 Stainless Steel BA
②	Drawer Member	
③	Intermediate Member	
④	Retainer	304 Stainless Steel
⑤	Balls	

*Mount with M6 Flat head screws.

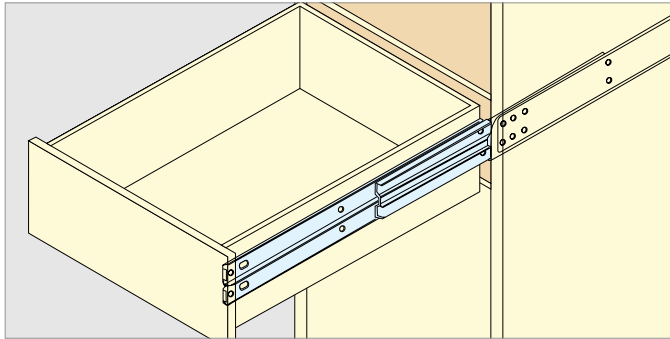


Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	H	Load Rating (kg/pair)	Weight (g)	Box (pcs)
5302-300	300 (11-13/16")	337 (13-1/4")	112	80	-	-	128	128	-	-	130 (285 lbs)	858	20
5302-350	350 (13-3/4")	386 (15-3/16")	144	96	-	-	160	160	-	-	119 (260 lbs)	1007	20
5302-400	400 (15-3/4")	435 (17-1/8")	144	80	80	-	96	96	160	-	108 (236 lbs)	1157	16
5302-450	450 (17-11/16")	484 (19-1/16")	80	192	80	-	128	160	128	-	98 (215 lbs)	1302	16
5302-500	500 (19-11/16")	534 (21")	112	160	112	-	160	160	128	-	92 (201 lbs)	1430	10
5302-550	550 (21-11/16")	583 (23")	112	176	160	-	192	128	192	-	86 (188 lbs)	1609	10
5302-600	600 (23-5/8")	632 (24-7/8")	112	224	160	-	208	128	208	-	81 (177 lbs)	1755	10
5302-650	650 (25-5/8")	681 (26-13/16")	112	160	144	128	128	192	160	128	76 (166 lbs)	1914	10
5302-700	700 (27-9/16")	730 (28-3/4")	144	160	144	144	128	208	208	128	71 (155 lbs)	2061	8
5302-750	750 (29-1/2")	780 (30-1/16")	176	160	160	152	192	160	178	192	68 (149 lbs)	2193	8
5302-800	800 (31-1/12")	829 (32-5/8")	192	192	192	112	224	160	164	224	64 (140 lbs)	2341	8

FULL EXTENSION SLIDE



ESR-10

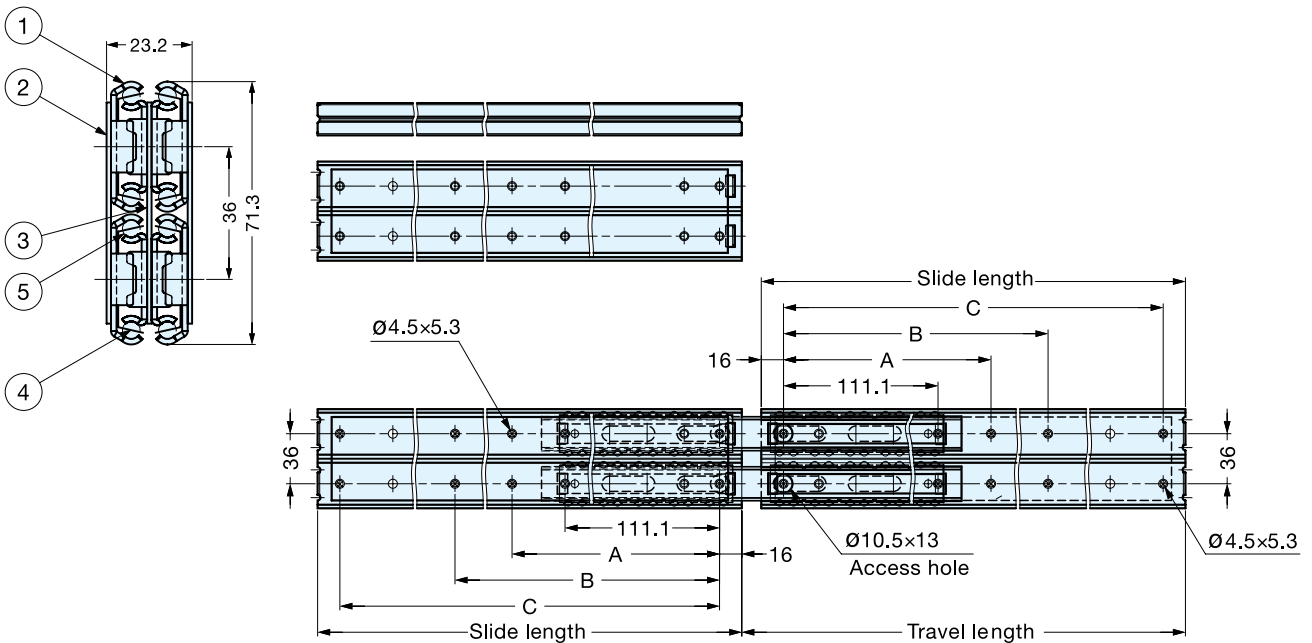


Installation

- Full extension
- Positive stop
- Non-handed
- Heavy duty

No.	Part	Material
①	Outer Member	304 Stainless Steel
②	Tie Plate	
③	Intermediate Member	
④	Retainer	
⑤	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



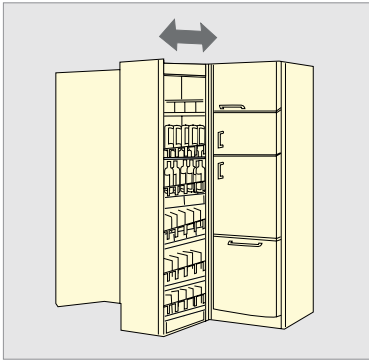
Item No.	Slide Length	Travel Length	A	B	C	# of Holes	Load Rating (kg/pair)	Weight (g)	Box (pcs)
ESR-10-12	305 (12")	319 (12-9/16")	-	149.2	273	16	272 (599 lbs)	1670	8
ESR-10-14	355.8 (14")	369.8 (14-9/16")	-	200	323.8	16	268 (590 lbs)	2000	8
ESR-10-16	406.6 (16")	420.6 (16-9/16")	-	250.8	374.6	16	259 (570 lbs)	2340	6
ESR-10-18	457.4 (18")	471.4 (18-9/16")	212.7	301.6	425.4	20	250 (550 lbs)	2500	6
ESR-10-20	508.2 (20")	522.2 (20-9/16")	238.1	352.4	476.2	20	241 (530 lbs)	2840	6
ESR-10-22	559 (22")	573 (22-9/16")	263.5	403.2	527	20	229 (504 lbs)	3250	6
ESR-10-24	609.8 (24")	623.8 (24-9/16")	288.9	454	577.8	20	216 (475 lbs)	3500	4
ESR-10-26	660.6 (26")	674.6 (26-9/16")	314.3	504.8	628.6	20	200 (440 lbs)	3840	4
ESR-10-28	711.4 (28")	725.4 (28-9/16")	339.7	555.6	679.4	20	182 (400 lbs)	4170	4

FULL EXTENSION SLIDE



TSS3

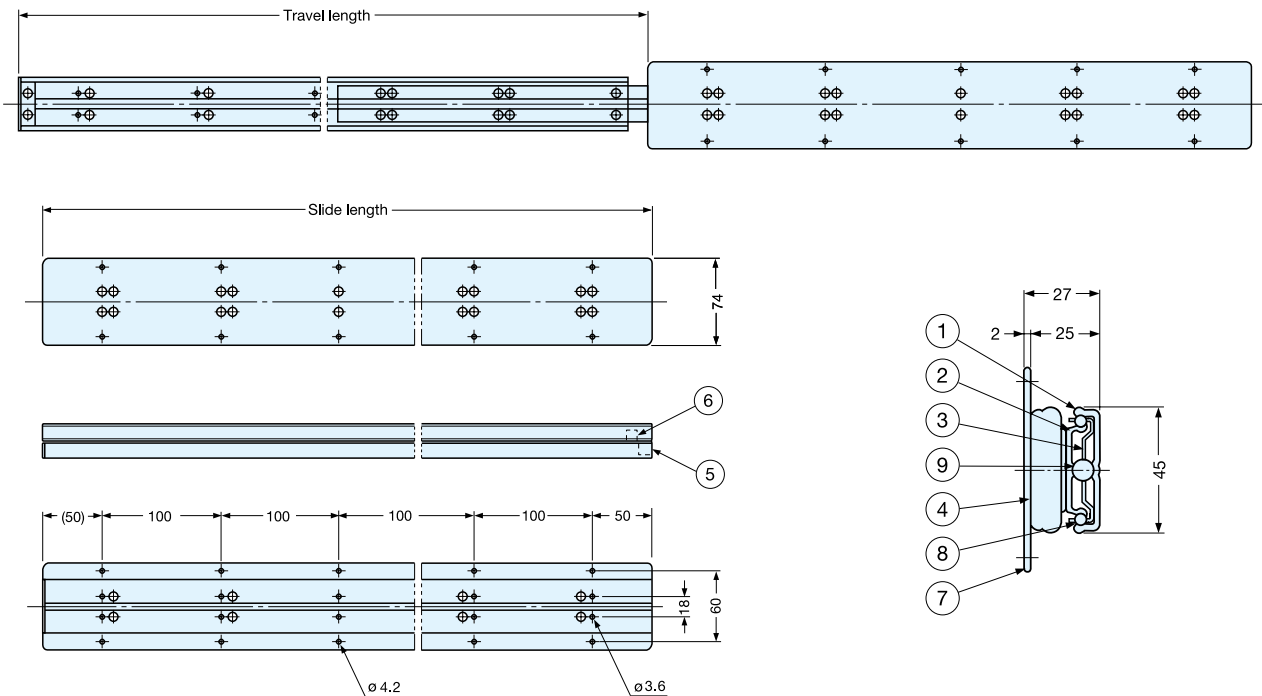
LOAD RATING
50-95kg
110-209lbs



Installation

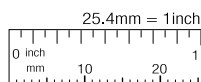
- Full extension
- Positive stop
- Non-handed
- Heavy duty

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Retainer	
④	End Stopper	Polyamide
⑤	Outer Guide	Polyacetal
⑥	Inner Guide	Polyacetal
⑦	Plate	304 Stainless Steel
⑧	Large Balls	Steel
⑨	Small Balls	Steel



Item No.	Slide Length	Travel Length	# of Holes	Load Rating (kg/pair)	Weight (g)	Box (pcs)
TSS3- 300	300 (11-13/16")	336 (13-7/32")	6	95 (209 lbs)	1380	4
TSS3- 400	400 (15-3/4")	436 (17-5/32")	8	90 (198 lbs)	1860	4
TSS3- 500	500 (19-11/16")	536 (21-3/32")	10	85 (187 lbs)	2390	4
TSS3- 600	600 (23-5/8")	636 (25-1/32")	12	80 (176 lbs)	2880	4
TSS3- 800	800 (31-1/2")	836 (32-29/32")	16	65 (143 lbs)	3790	4
TSS3-1000	1000 (39-3/8")	1036 (40-25/32")	20	50 (110 lbs)	4710	4

LAMP LAMP BRAND by SUGATSUNE



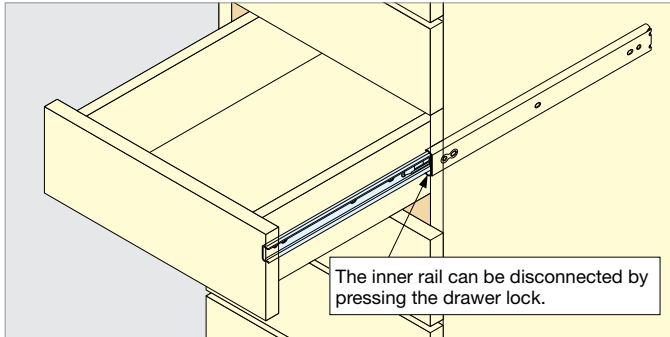
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3/4 EXTENSION SLIDE



2725

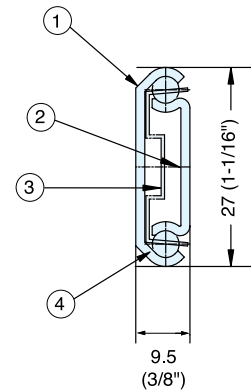
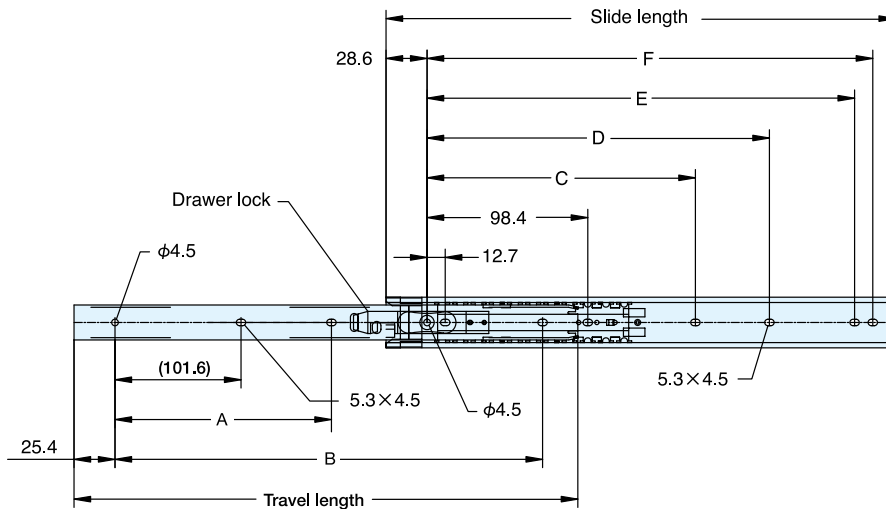
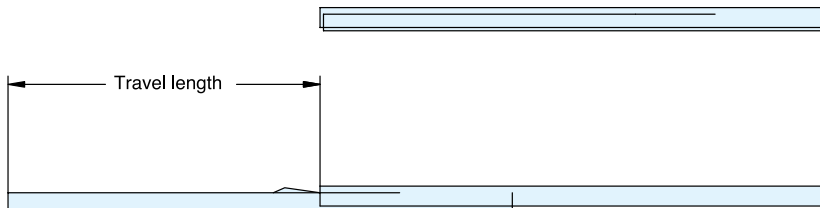


Installation

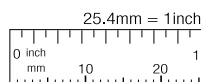
- 3/4 extension
- Front disconnect
- Positive stop
- Non-handed

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Innner Rail	
③	Retainer	440C Stainless Steel*
④	Balls	

*304 Stainless Steel ball version available upon request.
*Mount with M4 or #8 Binding, Pan, or Truss head screws.



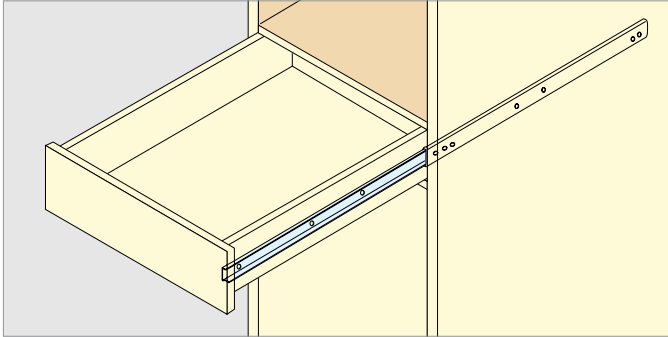
Item No.	Slide Length	Travel Length	A	B	C	D	E	F	Load Rating (kg/pair)	Weight (g)	Box (pcs)
2725- 8A	203 (8")	127 (5")	-	162.6	-	-	146	158.7	25 (55 lbs)	159	10
2725-10A	254 (10")	159 (6-1/4")	-	203.2	-	-	196.8	209.5	27 (59 lbs)	199	10
2725-12A	304 (12")	203 (8")	-	254	-	136.5	247.6	260.3	27 (59 lbs)	238	10
2725-14A	355 (14")	254 (10")	-	304.8	-	187.3	298.4	311.1	26 (57 lbs)	278	10
2725-16A	406 (16")	305 (12")	158.8	355.6	-	238.1	349.2	361.9	25 (55 lbs)	318	10
2725-18A	457 (18")	330 (13")	177.8	406.4	200	288.9	400	412.7	25 (55 lbs)	358	10
2725-20A	508 (20")	381 (15")	203.2	457.2	225.4	339.7	450.8	463.5	24 (52 lbs)	398	10



3/4 EXTENSION SLIDE



ESR-1

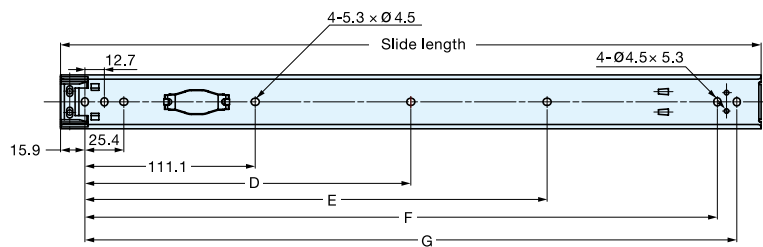
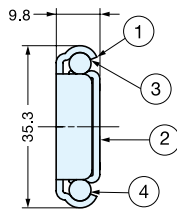
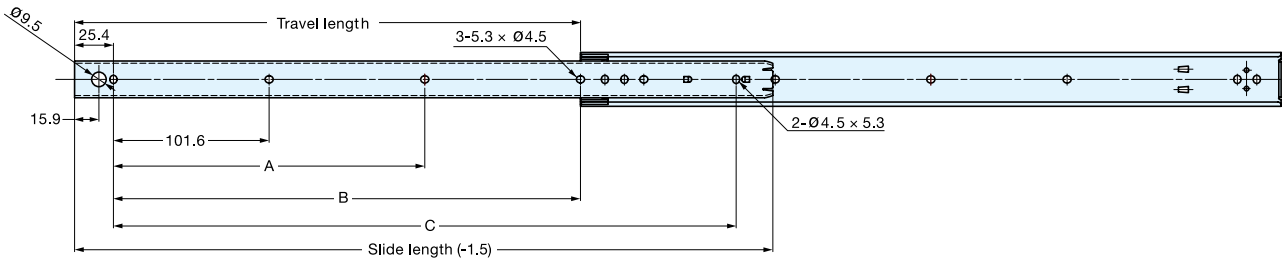


Installation

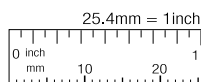
- 3/4 extension
- Front disconnect
- Friction brake stop
- Non-handed

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Retainer	304 Stainless Steel
④	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	# of Holes		Load Rating (kg/pair)	Weight (g)	Box (pcs)
										Inner Rail	Outer Rail			
ESR-1-12	304.8 (12")	228.6 (9")	-	152.4	254	-	149.2	260.3	273	4	7	49 (107 lbs)	300	30
ESR-1-14	355.6 (14")	279.4 (11")	-	203.2	304.8	-	200	311.1	323.8	4	7	47 (103 lbs)	360	30
ESR-1-16	406.4 (16")	304.8 (12")	-	254	355.6	-	250.8	361.9	374.6	4	7	43 (94 lbs)	420	30
ESR-1-18	457.2 (18")	330.2 (13")	203.2	304.8	406.4	212.7	301.6	412.7	425.4	5	8	41 (90 lbs)	460	30
ESR-1-20	508 (20")	381 (15")	228.6	355.6	457.2	238.1	352.4	463.5	476.2	5	8	37 (81 lbs)	490	30
ESR-1-22	558.8 (22")	406.4 (16")	254	406.4	508	263.5	403.2	514.3	527	5	8	34 (74 lbs)	560	30
ESR-1-24	609.6 (24")	432.8 (17")	279.4	457.2	558.8	288.9	454	565.1	577.8	5	8	30 (66 lbs)	590	30
ESR-1-26	660.4 (26")	482.6 (19")	304.8	508	609.6	314.3	504.8	615.9	628.6	5	8	27 (59 lbs)	660	30
ESR-1-28	711.2 (28")	508 (20")	330.2	558.8	660.4	339.7	555.6	666.7	679.4	5	8	25 (55 lbs)	690	30



3/4 EXTENSION SLIDE

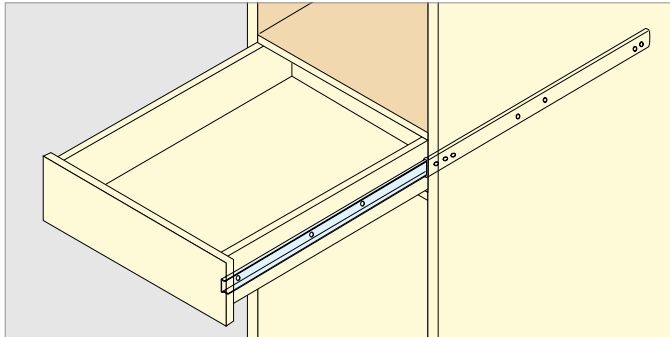


ESR-13



DRAWER SLIDES

STAINLESS STEEL SLIDE

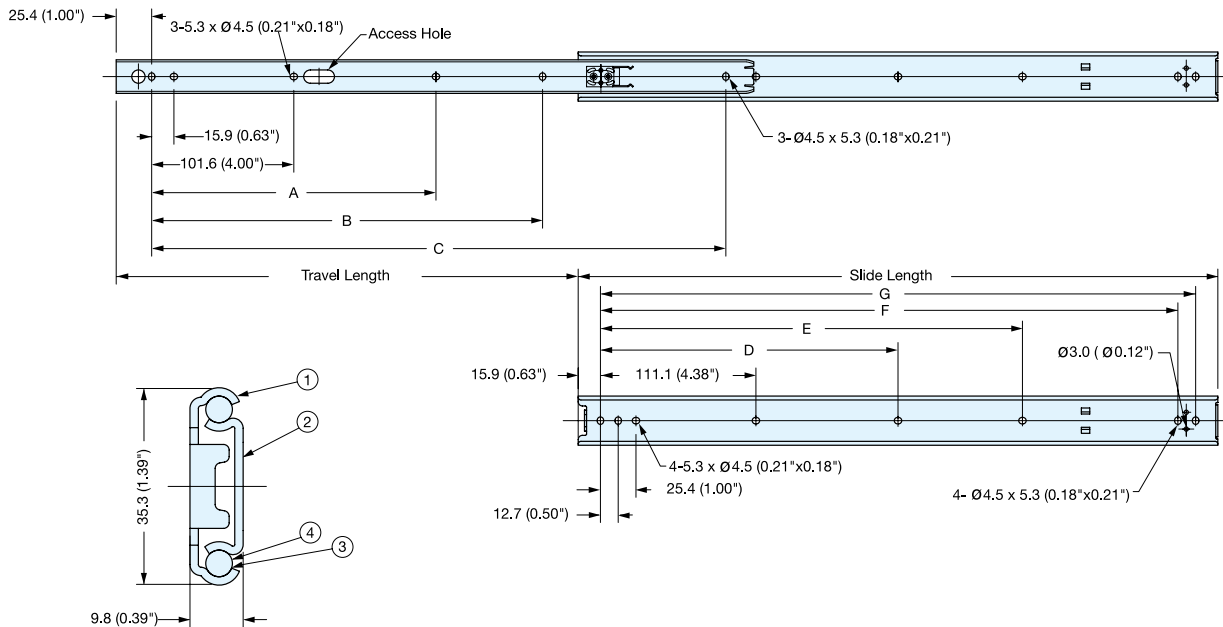


Installation

- 3/4 extension
- Positive stop
- Positive catch
- Non-handed

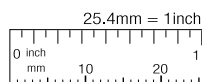
No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Retainer	304 Stainless Steel
④	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	# of Holes		Load Rating (kg/pair)	Weight (g)	Box (pcs)
										Inner Rail	Outer Rail			
ESR-13-12	304.8 (12")	228.6 (9")	-	177.8	258.0	-	149.2	260.3	273	4	7	49 (107 lbs)	310	20
ESR-13-14	355.6 (14")	279.4 (11")	-	228.6	308.8	-	200	311.1	323.8	4	7	47 (103 lbs)	360	20
ESR-13-16	406.4 (16")	304.8 (12")	-	254	359.6	-	250.8	361.9	374.6	4	7	43 (94 lbs)	410	20
ESR-13-18	457.2 (18")	330.2 (13")	203.2	279.4	410.4	212.7	301.6	412.7	425.4	5	8	41 (90 lbs)	460	20
ESR-13-20	508 (20")	381 (15")	228.6	330.2	461.2	238.1	352.4	463.5	476.2	5	8	37 (81 lbs)	520	20
ESR-13-22	558.8 (22")	406.4 (16")	254	355.6	512.0	263.5	403.2	514.3	527	5	8	34 (74 lbs)	570	20
ESR-13-24	609.6 (24")	431.8 (17")	254	381	562.8	288.9	454	565.1	577.8	5	8	30 (66 lbs)	620	20
ESR-13-26	660.4 (26")	482.6 (19")	254	431.8	613.6	314.3	504.8	615.9	628.6	5	8	27 (59 lbs)	650	20
ESR-13-28	711.2 (28")	508 (20")	279.4	457.2	664.4	339.7	555.6	666.7	679.4	5	8	25 (55 lbs)	700	20

LAMP LAMP BRAND by SUGATSUNE



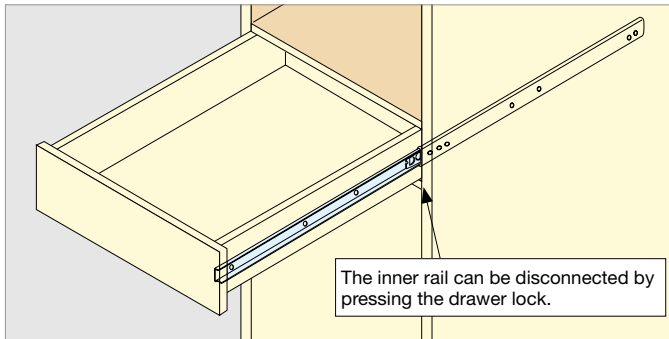
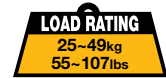
Customers outside of North America
www.sugatsune.co.jp
export@sugatsune.co.jp

North American Customers
www.sugatsune.net
 1-888-557-5267

3/4 EXTENSION SLIDE



ESR-8

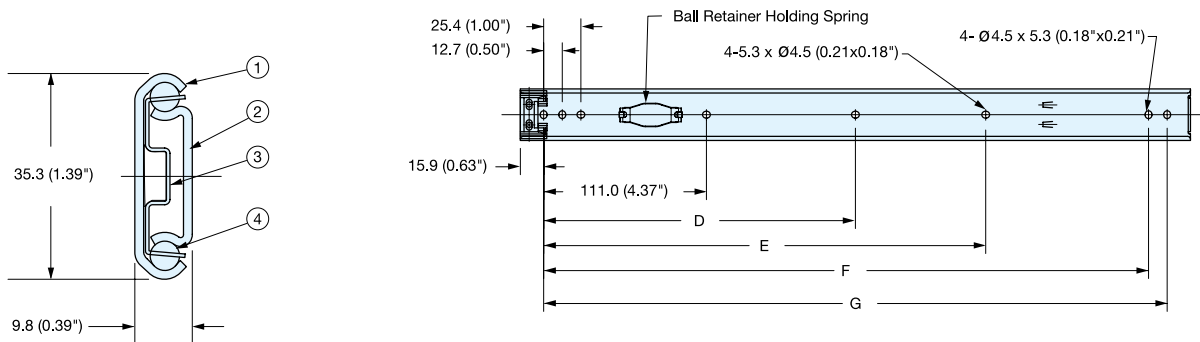
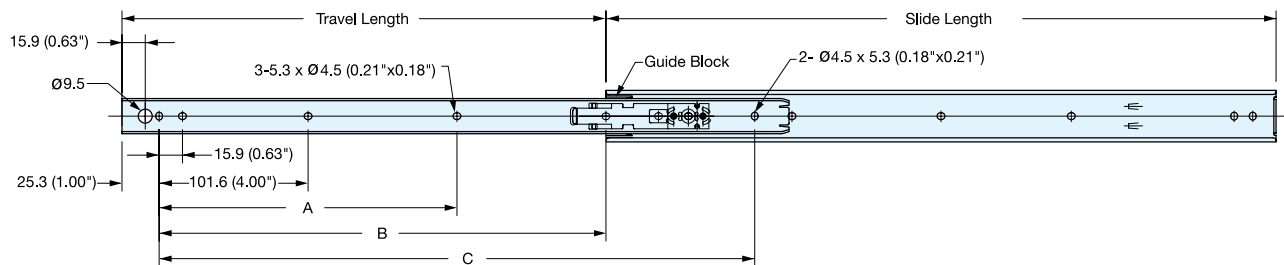


Installation

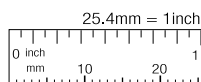
- 3/4 extension
- Positive lock
- Front disconnect
- Non-handed

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Innner Rail	
③	Retainer	304 Stainless Steel
④	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	# of Holes		Load Rating (kg/pair)	Weight (g)	Box (pcs)
										Inner Rail	Outer Rail			
ESR-8-12	304.8 (12")	228.6 (9")	-	152.4	-	-	149.2	260.3	273	4	7	49 (107 lbs)	310	20
ESR-8-14	355.6 (14")	279.4 (11")	-	203.2	-	-	200	311.1	323.8	4	7	47 (103 lbs)	370	20
ESR-8-16	406.4 (16")	304.8 (12")	-	203.2	355.6	-	250.8	361.9	374.6	4	7	43 (94 lbs)	420	20
ESR-8-18	457.2 (18")	330.2 (13")	203.2	-	406.4	212.7	301.6	412.7	425.4	5	8	41 (90 lbs)	470	20
ESR-8-20	508 (20")	381 (15")	228.6	-	457.2	238.1	352.4	463.5	476.2	5	8	37 (81 lbs)	500	20
ESR-8-22	558.8 (22")	406.4 (16")	254	-	508	263.5	403.2	514.3	527	5	8	34 (74 lbs)	550	20
ESR-8-24	609.6 (24")	431.8 (17")	279.4	-	558.8	288.9	454	565.1	577.8	5	8	30 (66 lbs)	600	20
ESR-8-26	660.4 (26")	482.6 (19")	304.8	-	609.6	314.3	504.8	615.9	628.6	5	8	27 (59 lbs)	670	20
ESR-8-28	711.2 (28")	508 (20")	330.2	558.8	660.4	339.7	555.6	666.7	679.4	5	8	25 (55 lbs)	680	20



3/4 EXTENSION SLIDE

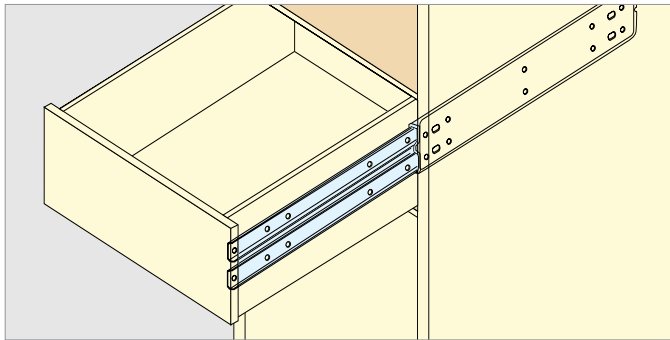


ESR-5



DRAWER SLIDES

STAINLESS STEEL SLIDE

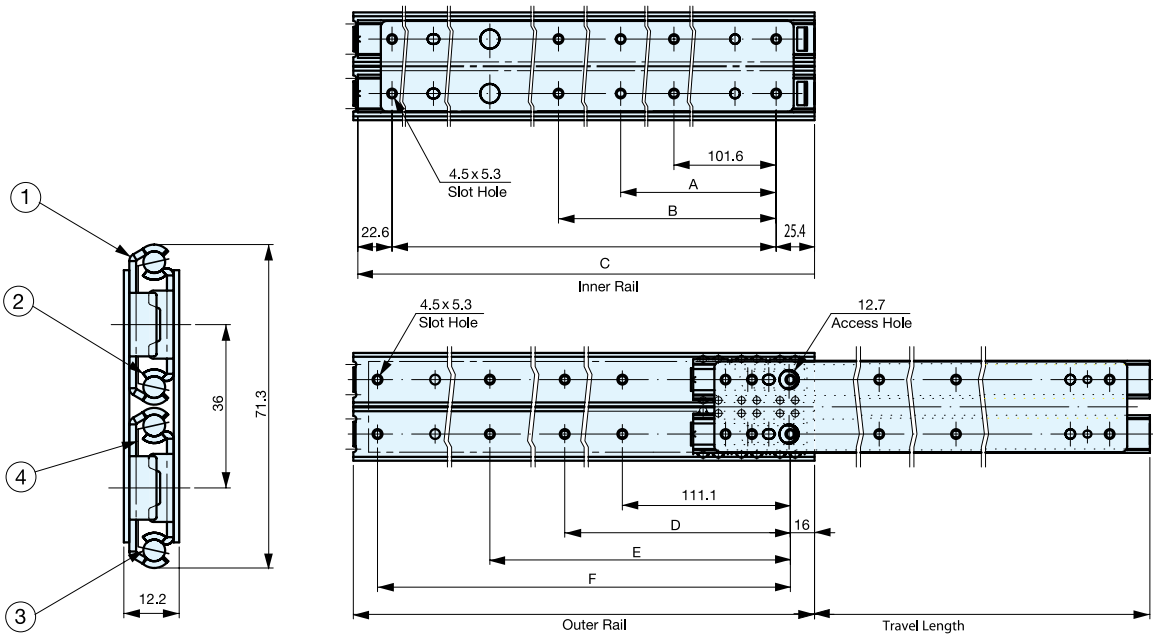


Installation

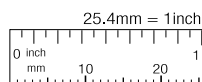
- 3/4 extension
- Positive stop
- Non-handed
- Heavy duty

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Ininner Rail	
③	Retainer	304 Stainless Steel
④	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



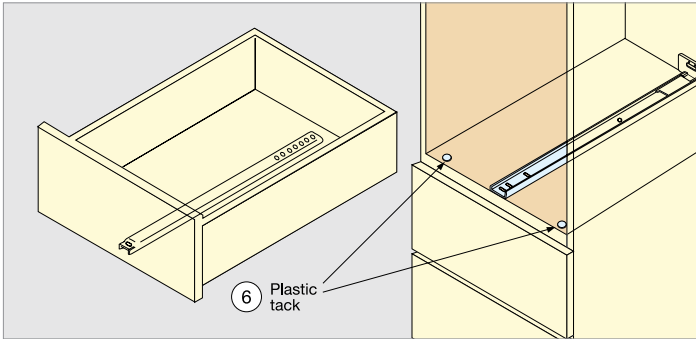
Item No.	Slide Length	Travel Length	A	B	C	D	E	F	# of Holes		Load Rating (kg/pair)	Weight (g)	Box (pcs)
									Inner Rail	Outer Rail			
ESR-5-12	305 (12")	221.8 (8-47/64")	-	152.4	254	-	149.2	273	6	8	114 (251 lbs)	920	12
ESR-5-14	355.8 (14")	259.9 (10-15/64")	-	203.2	304.8	-	200	323.8	6	8	109 (240 lbs)	1090	12
ESR-5-16	406.6 (16")	298 (11-47/64")	-	254	355.6	-	250.8	374.6	6	8	104 (229 lbs)	1250	12
ESR-5-18	457.4 (18")	348.8 (13-47/64")	203.2	304.8	406.4	212.7	301.6	425.4	6	10	102 (224 lbs)	1500	12
ESR-5-20	508.2 (20")	361.5 (14-15/64")	228.6	355.6	457.2	238.1	352.4	476.2	6	10	99 (218 lbs)	1670	12
ESR-5-22	559 (22")	425 (16-47/64")	254	406.4	508	263.5	403.2	527	6	10	94 (207 lbs)	1750	12
ESR-5-24	609.8 (24")	450.4 (17-47/64")	279.4	457.2	558.8	288.9	454	577.8	6	10	89 (196 lbs)	1920	12
ESR-5-26	660.6 (26")	463.1 (18-15/64")	304.8	508	609.6	314.3	504.8	628.6	6	10	86 (189 lbs)	2090	12
ESR-5-28	711.4 (28")	501.2 (19-47/64")	330.2	558.8	660.4	339.7	555.6	679.4	6	10	80 (176 lbs)	2250	12



3/4 EXTENSION SLIDE



ESR-2

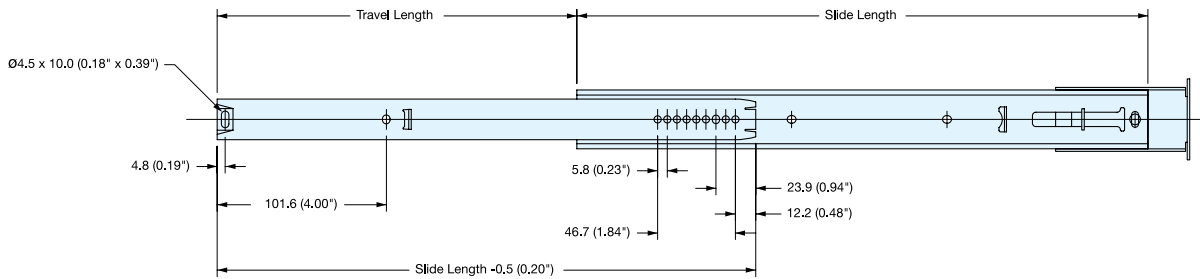
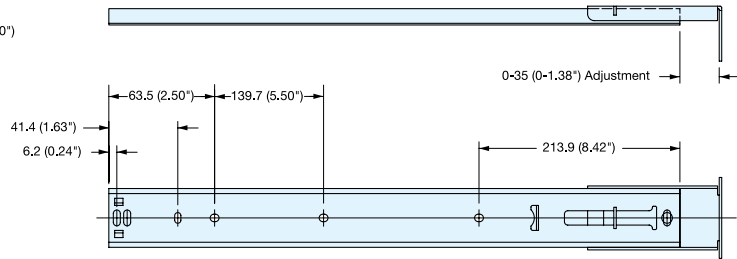
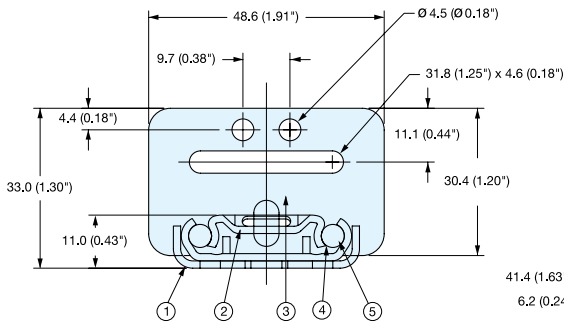


Installation

- Under carriage mounting with bracket
- 3/4 extension
- Front disconnect
- Friction brake stop

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Bracket	
④	Retainer	304 Stainless Steel
⑤	Balls	
⑥	Plastic Tack	Polyamide

*Mount with M4 or #8 Binding, Pan, or Truss head screws.
 *Two pcs. of plastic tacks supplied per slide.



Item No.	Slide Length	Travel Length	# of Holes		Load Rating (kg/pcs)	Weight (g)	Box (pcs)
			Inner Rail	Outer Rail			
ESR-2-12	323.8 (12-3/4")	215.9 (8-1/2")	11	7	8 (18 lbs)	340	20
ESR-2-14	374.6 (14-3/4")	266.7 (10-1/2")	11	7	7.5 (17 lbs)	400	20
ESR-2-16	425.4 (16-3/4")	304.8 (12")	11	6	7 (15 lbs)	450	20
ESR-2-18	476.2 (18-3/4")	317.5 (12-1/2")	11	7	7 (15 lbs)	490	20
ESR-2-20	527 (20-3/4")	368.3 (14-1/2")	11	7	6.5 (14 lbs)	530	20
ESR-2-22	577.8 (22-3/4")	419.1 (16-1/2")	11	7	6 (13 lbs)	630	20
ESR-2-24	628.6 (24-3/4")	444.5 (17-1/2")	11	7	5.5 (12 lbs)	690	20
ESR-2-26	679.4 (26-3/4")	495.3 (19-1/2")	11	7	5 (11 lbs)	720	20

LINEAR BALL BEARING GUIDE

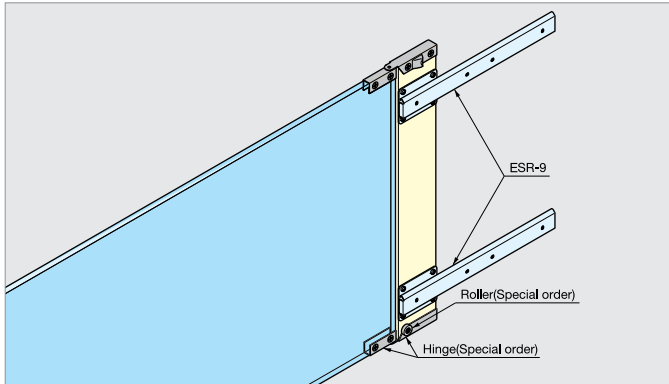


ESR-9



DRAWER SLIDES

STAINLESS STEEL SLIDE

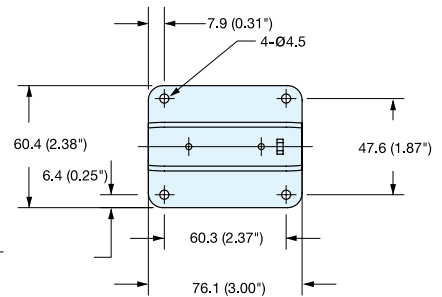
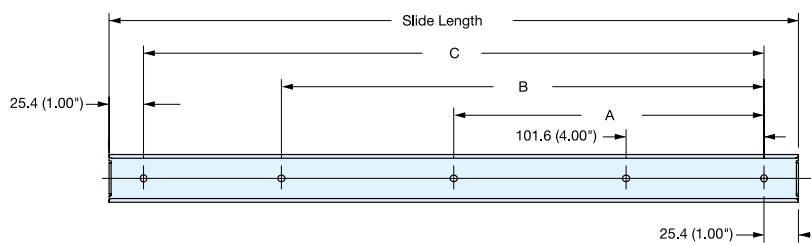
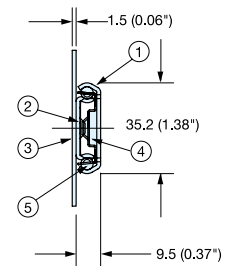
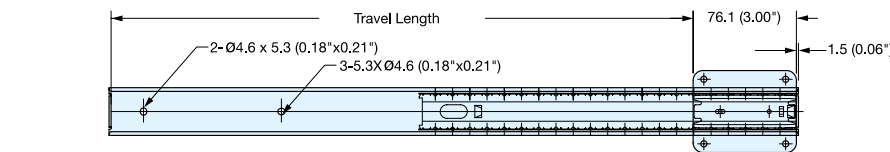


Installation

- Mounting plate attached

No.	Part	Material
①	Outer Rail	304 Stainless Steel BA
②	Inner Rail	
③	Mounting Plate	
④	Retainer	304 Stainless Steel
⑤	Balls	

*Mount with M4 or #8 Binding, Pan, or Truss head screws.



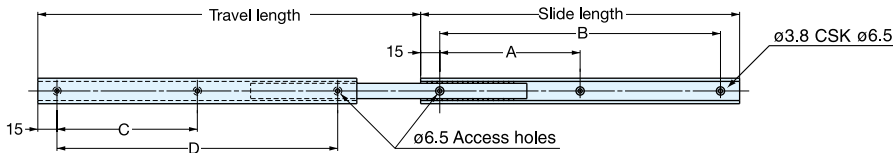
Item No.	Slide Length	Travel Length	A	B	C	# of Holes Outer Rail	Load Rating (kg/pair)	Weight (g)	Box (pcs)
ESR-9-14	355.6 (14")	276.4 (10-7/8")	-	203.2	304.8	4	5 (11 lbs)	330	20
ESR-9-16	406.4 (16")	327.2 (12-7/8")	-	254	355.6	4	5 (11 lbs)	360	20
ESR-9-18	457.2 (18")	378 (14-7/8")	203.2	304.8	406.4	5	5 (11 lbs)	390	20
ESR-9-20	508 (20")	428.8 (16-7/8")	228.6	355.6	457.2	5	5 (11 lbs)	430	20
ESR-9-22	558.8 (22")	479.6 (18-7/8")	254	406.4	508	5	5 (11 lbs)	460	20
ESR-9-24	609.6 (24")	530.4 (20-7/8")	279.4	457.2	558.8	5	5 (11 lbs)	500	20
ESR-9-26	660.4 (26")	581.2 (22-7/8")	304.8	508	609.6	5	5 (11 lbs)	530	20
ESR-9-28	711.2 (28")	632 (24-7/8")	330.2	558.8	660.4	5	5 (11 lbs)	560	20



FULL EXTENSION SLIDE

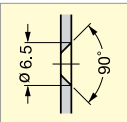
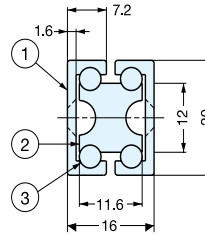


AR-3



- Full extension
- Positive stop
- Non-handed

No.	Part	Material	Finish
①	Outer Rail	Aluminum Alloy	White Alumite
②	Innner Rail		
③	Balls	Steel	-



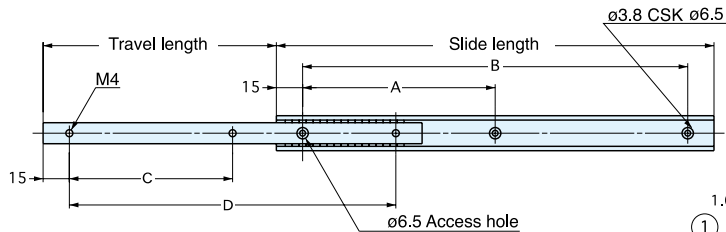
Hole Dimension (Outer Rail)

Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)	Box (pcs)
AR-3-100	100 (3-15/16")	100 (3-15/16")	-	70	-	70	20 (45 lbs)	63	30
AR-3-200	200 (7-7/8")	223 (8-25/32")	85	170	85	170	18 (40 lbs)	128	30
AR-3-300	300 (11-13/16")	345 (13-19/32")	135	270	135	270	15 (35 lbs)	194	30
AR-3-400	400 (15-3/4")	460 (18-7/64")	185	370	185	370	13 (30 lbs)	260	20
AR-3-500	500 (19-11/16")	576 (22-43/64")	235	470	235	470	11 (25 lbs)	325	20

3/4 EXTENSION SLIDE

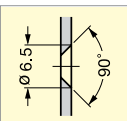
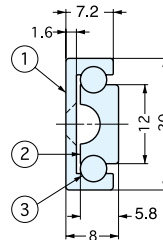


AR-2



- 3/4 extension
- Positive stop
- Non-handed

No.	Part	Material	Finish
①	Outer Rail	Aluminum Alloy	White Alumite
②	Innner Rail		
③	Balls	Steel	-



Hole Dimension (Outer Rail)

Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)	Box (pcs)
AR-2-100	100 (3-15/16")	60 (2-23/64")	-	70	-	70	31 (70 lbs)	31	50
AR-2-200	200 (7-7/8")	120 (4-23/32")	85	170	85	170	29 (65 lbs)	63	50
AR-2-300	300 (11-13/16")	180 (7-5/64")	135	270	135	270	27 (60 lbs)	76	50
AR-2-400	400 (15-3/4")	240 (9-29/64")	185	370	185	370	24 (55 lbs)	129	50
AR-2-500	500 (19-11/16")	300 (11-13/16")	235	470	235	470	22 (50 lbs)	161	50

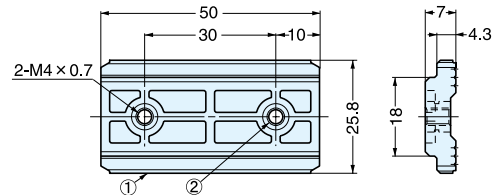
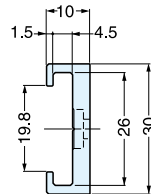
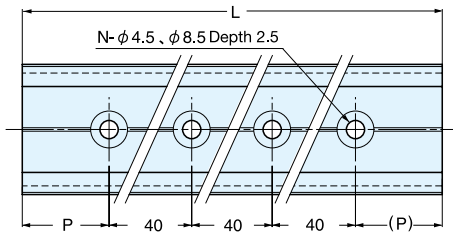
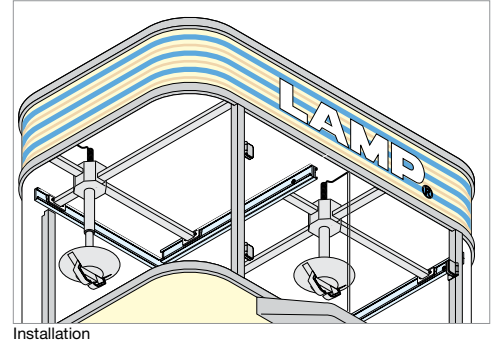
GUIDE BLOCK & RAIL



MRS30, MR-50C

GUIDE RAIL

- Perfect for small stroke application.
- No grease needed.



Material	Finish
Aluminum	Alumite

*Both ends are not anodized.

Item No.	L	P	N	Weight (g)	Box (pcs)
MRS30- 100	100	10	3	39	200
MRS30- 200	200	20	5	79	100
MRS30- 400	400	20	10	159	50
MRS30- 800	800	20	20	312	40
MRS30- 2000	2000	20	50	790	15

No.	Material	Finish
①	Polyethylene (UL 94HB)	Grey
②	304 Stainless Steel	Plain

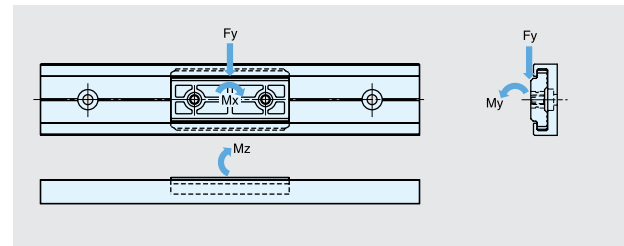
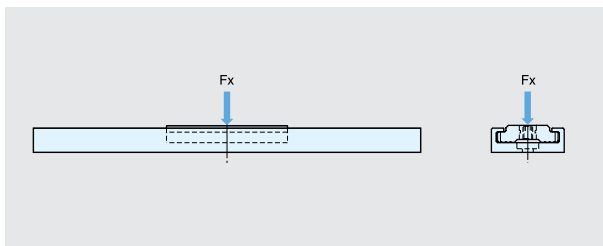
Item No.	Weight (g)	Box (pcs)
MR-50C	7	50

ALUMINUM GUIDE RAIL

MRS LOAD RATING INFORMATION

Dynamic Friction Coefficient:1

Maximum PV (Pressure (kgf-mm²) x Velocity (m/min.))=3.06



Horizontal Static Load Fx	26 kgf (57.2 lbs)
Vertical Static Load Fy	15 kgf (33 lbs)
Vertical Dynamic Load Mx	25 kgf-cm (21.6 lbs-in)
Horizontal Dynamic Load My	12.5 kgf-cm (10.8 lbs-in)
Horizontal Dynamic Load Mz	12.5 kgf-cm (10.8 lbs-in)

◆ Reduction Factor

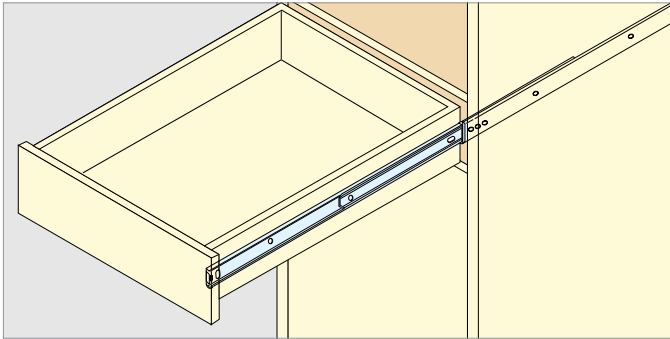
Certain reduction needs to be applied depending on application or environment.
 Low speed / Low operation frequency = 70% to 100% of Load Rating
 Moderate speed / High operation frequency = 35% to 65% of Load Rating
 High operation frequency with Vibration & Shocks = 10% to 30% of Load Rating

FULL EXTENSION SLIDE



5320

LOAD RATING
83~124kg
182~273lbs

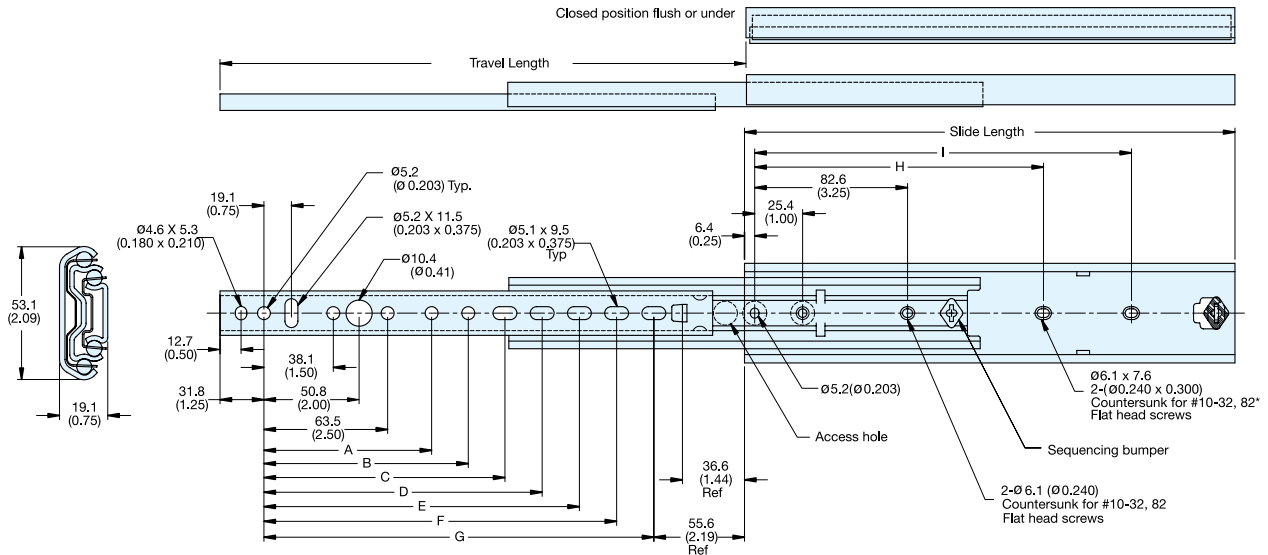


Installation

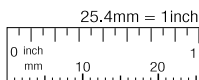
- Full extension
- Positive stop
- Non-handed
- Hold-In detent

Material	Finish
Steel	Clear Zinc Chromate

*Mount with #10-32 Flat head screws.



Item No.	Slide Length	Travel Length	A	B	C	D	E	F	G	H	I	Load Rating (kg/pair)	Weight (g)	Box (pcs)
5320-12	304.8 (12")	304.8 (12")	-	-	-	154.0	179.4	198.4	217.5	209.6	266.7	124 (273 lbs)	882	10
5320-14	355.6 (14")	355.6 (14")	-	-	-	204.8	230.2	249.2	268.3	260.4	317.5	121 (267 lbs)	1029	10
5320-16	406.4 (16")	406.4 (16")	127.0	-	-	255.6	281.0	300.0	319.1	311.2	368.3	118 (261 lbs)	1176	10
5320-18	457.2 (18")	457.2 (18")	127.0	-	242.9	306.4	331.8	350.8	369.9	362.0	419.1	115 (253 lbs)	1323	10
5320-20	508.0 (20")	508.0 (20")	127.0	190.5	293.7	357.2	382.6	401.6	420.7	412.8	469.9	111 (244 lbs)	1470	10
5320-22	558.8 (22")	558.8 (22")	127.0	190.5	344.5	408.0	433.4	452.4	471.5	463.6	520.7	106 (233 lbs)	1617	10
5320-24	609.6 (24")	609.6 (24")	127.0	190.5	395.3	458.8	484.2	503.2	522.3	514.4	571.5	100 (220 lbs)	1764	10
5320-26	660.4 (26")	660.4 (26")	127.0	190.5	446.1	509.6	535.0	554.0	573.1	565.2	622.3	92 (203 lbs)	1911	10
5320-28	711.2 (28")	711.2 (28")	127.0	190.5	496.9	560.4	585.8	604.8	623.9	616.0	673.1	83 (182 lbs)	2058	10



3/4 EXTENSION SLIDE



CBL-R53, CBL-ST52

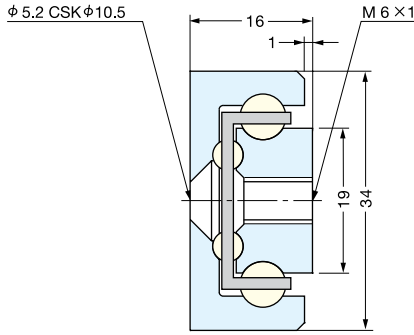
*Cross section - Actual size shown

LOAD RATING
50-135kg
110-297lbs

- 3/4 extension
- Positive stop

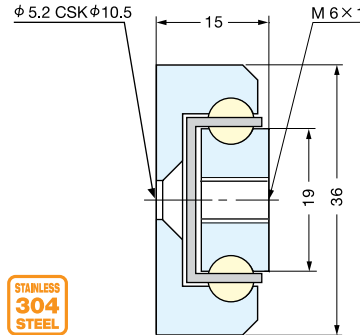
Options: Two way travel
Positive catch
Positive lock

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

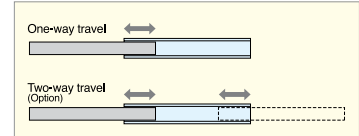


Model	Material	Finish
CBL-R53	Steel	Yellow Zinc

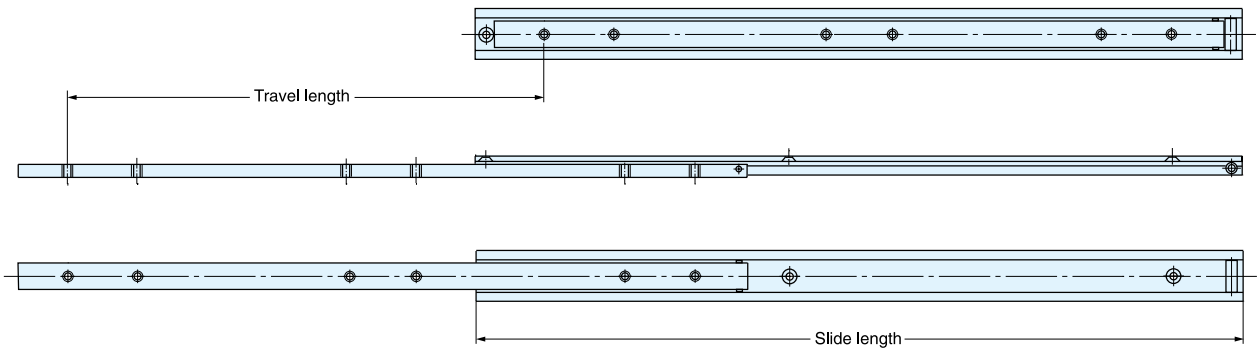
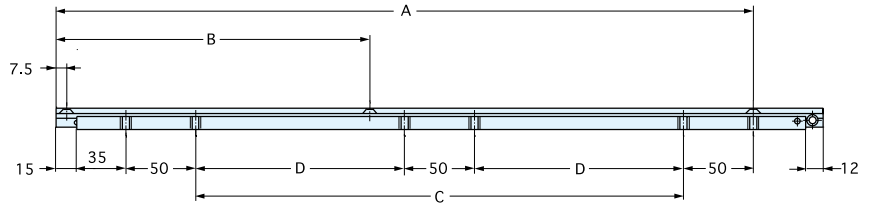
STAINLESS
304
STEEL



Model	Material	Finish
CBL-ST52	304 Stainless Steel	Plain



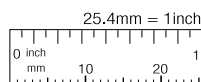
Available in U.S.A. only



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-R53- 300	300 (11-13/16")	180 (7-6/64")	250	-	100	-	135 (297 lbs)	870
CBL-R53- 400	400 (15-3/4")	280 (11-1/64")	350	150	200	-	125 (275 lbs)	1160
CBL-R53- 500	500 (19-11/16")	340 (13-25/64")	450	200	300	-	115 (253 lbs)	1450
CBL-R53- 600	600 (23-5/8")	400 (15-3/4")	550	250	-	175	105 (231 lbs)	1740
CBL-R53- 700	700 (27-9/16")	480 (18-57/64")	650	300	-	225	95 (209 lbs)	2030
CBL-R53- 800	800 (31-31/64")	540 (21-17/64")	750	350	-	275	85 (187 lbs)	2320
CBL-R53- 900	900 (35-7/16")	600 (23-5/8")	850	400	-	325	75 (165 lbs)	2610
CBL-R53-1000	1000 (39-3/8")	680 (26-49/64")	950	450	-	375	65 (143 lbs)	2900
<hr/>								
Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-ST52- 300	300 (11-13/16")	168 (6-5/8")	250	-	100	-	120 (264 lbs)	900
CBL-ST52- 400	400 (15-3/4")	268 (10-35/64")	350	150	200	-	110 (242 lbs)	1200
CBL-ST52- 500	500 (19-11/16")	318 (12-33/64")	450	200	300	-	100 (220 lbs)	1500
CBL-ST52- 600	600 (23-5/8")	393 (15-15/32")	550	250	-	175	90 (198 lbs)	1800
CBL-ST52- 700	700 (27-9/16")	468 (18-27/64")	650	300	-	225	80 (176 lbs)	2100
CBL-ST52- 800	800 (31-31/64")	518 (20-25/64")	750	350	-	275	70 (154 lbs)	2400
CBL-ST52- 900	900 (35-7/16")	593 (23-11/32")	850	400	-	325	60 (132 lbs)	2700
CBL-ST52-1000	1000 (39-3/8")	668 (26-19/64")	950	450	-	375	50 (110 lbs)	3000

Different sizes available upon request.

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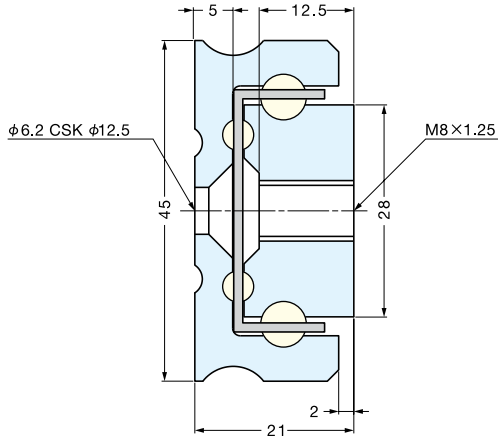
North American Customers
www.sugatsune.net
1-888-557-5267

3/4 EXTENSION SLIDE



CBL-R71

*Cross section - Actual size shown



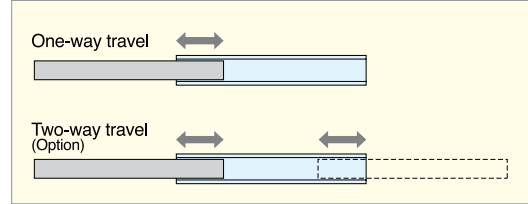
Material	Finish
Steel	Yellow Zinc



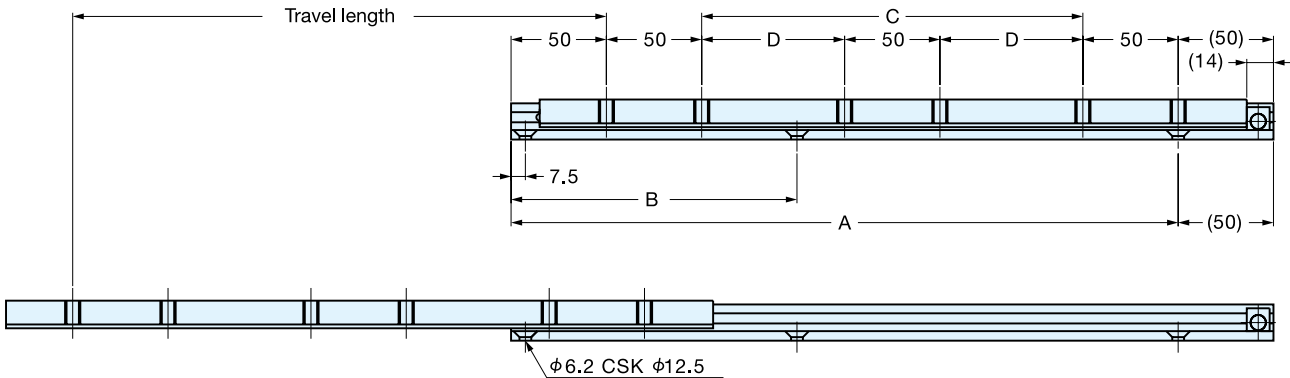
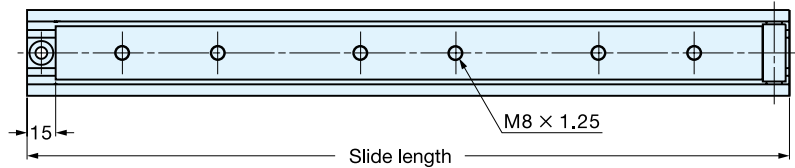
- 3/4 extension
- Positive stop

Options:
 Positive lock
 Positive catch
 Two way travel

*Please contact customer service for lead time.
 *Please see page 130 for technical specification.



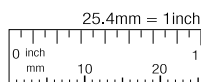
Available in U.S.A. only



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-R71- 300	300 (11-13/16")	180 (7-6/64")	250	-	100	-	310 (682 lbs)	1620
CBL-R71- 400	400 (15-3/4")	280 (11-1/64")	350	150	200	-	290 (638 lbs)	2160
CBL-R71- 500	500 (19-11/16")	340 (13-25/64")	450	200	300	-	270 (594 lbs)	2700
CBL-R71- 600	600 (23-5/8")	400 (15-3/4")	550	250	-	175	250 (550 lbs)	3240
CBL-R71- 700	700 (27-9/16")	480 (18-57/64")	650	300	-	225	230 (506 lbs)	3780
CBL-R71- 800	800 (31-31/64")	540 (21-17/64")	750	350	-	275	210 (462 lbs)	4320
CBL-R71- 900	900 (35-7/16")	600 (23-5/8")	850	400	-	325	190 (418 lbs)	4860
CBL-R71-1000	1000 (39-3/8")	680 (26-49/64")	950	450	-	375	170 (374 lbs)	5400

Different sizes available upon request.

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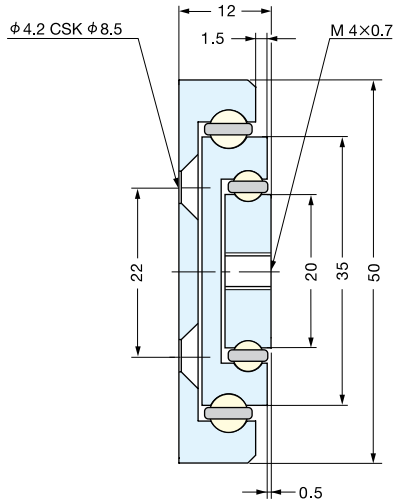
North American Customers
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 1-888-557-5267

FULL EXTENSION SLIDE



CBL-ST448

*Cross section - Actual size shown



LOAD RATING
40-80kg
88-176lbs

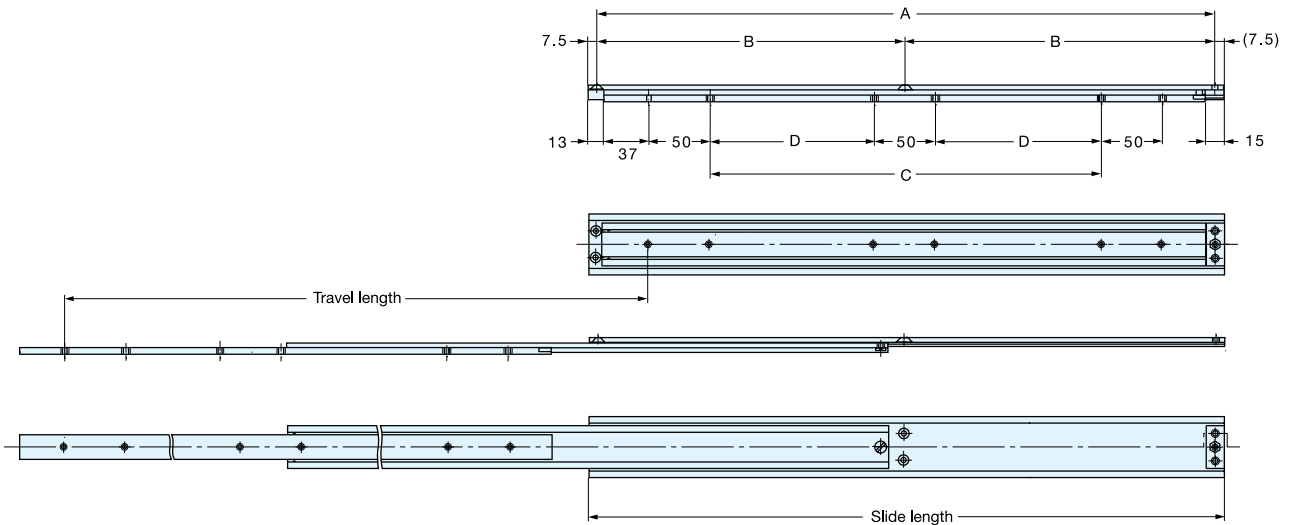
- Over travel
- Positive stop

Options:
Positive lock
Positive catch

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

Available in U.S.A. only

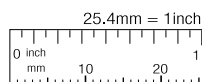
Material	Finish
304 Stainless Steel	Plain



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-ST448-300	300 (11-13/16")	313 (12-21/64")	285	-	100	-	80 (176 lbs)	1050
CBL-ST448-400	400 (15-3/4")	413 (16-17/64")	385	-	200	-	75 (165 lbs)	1400
CBL-ST448-500	500 (19-11/16")	513 (20-13/64")	485	-	300	-	70 (154 lbs)	1750
CBL-ST448-600	600 (23-5/8")	613 (24-9/64")	-	292.5	-	175	60 (132 lbs)	2100
CBL-ST448-700	700 (27-9/16")	713 (28-5/64")	-	342.5	-	225	50 (110 lbs)	2450
CBL-ST448-800	800 (31-31/64")	813 (32")	-	392.5	-	275	40 (88 lbs)	2800

Different sizes available upon request.

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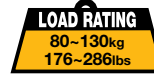
North American Customers
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FULL EXTENSION SLIDE



CBL-E1400

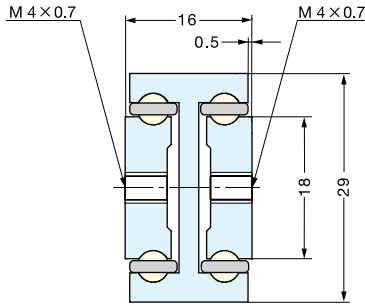
*Cross section - Actual size shown



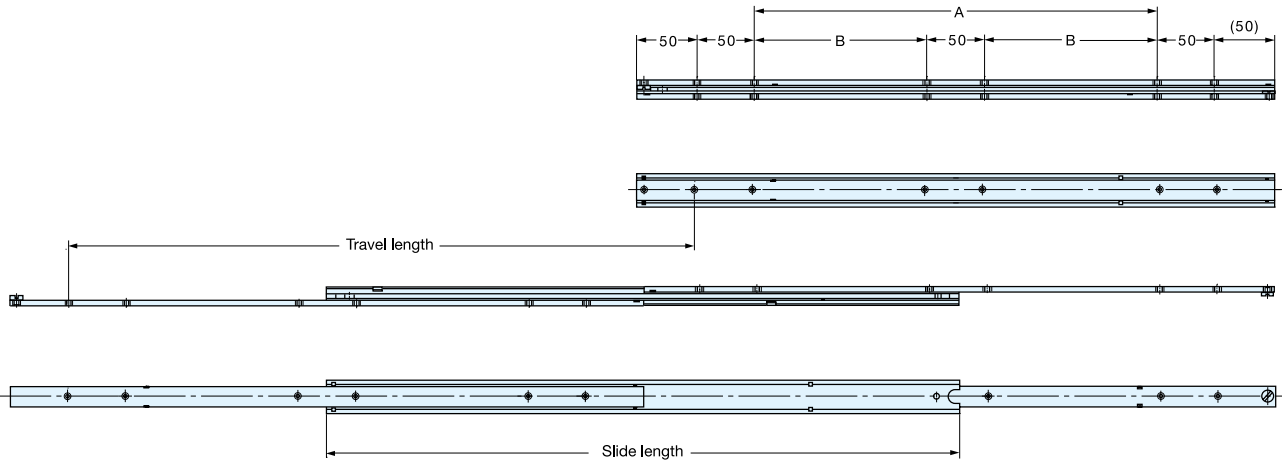
- Full extension
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

Available in U.S.A. only



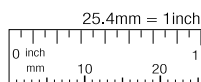
Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1400-300	300 (11-13/16")	300 (11-13/16")	100	-	130 (286 lbs)	900
CBL-E1400-400	400 (15-3/4")	400 (15-3/4")	200	-	120 (264 lbs)	1200
CBL-E1400-500	500 (19-11/16")	500 (19-11/16")	300	-	110 (242 lbs)	1500
CBL-E1400-600	600 (23-5/8")	600 (23-5/8")	-	175	100 (220 lbs)	1800
CBL-E1400-700	700 (27-9/16")	700 (27-9/16")	-	225	90 (198 lbs)	2100
CBL-E1400-800	800 (31-31/64")	800 (31-31/64")	-	275	80 (176 lbs)	2400

Different sizes available upon request.

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FULL EXTENSION SLIDE

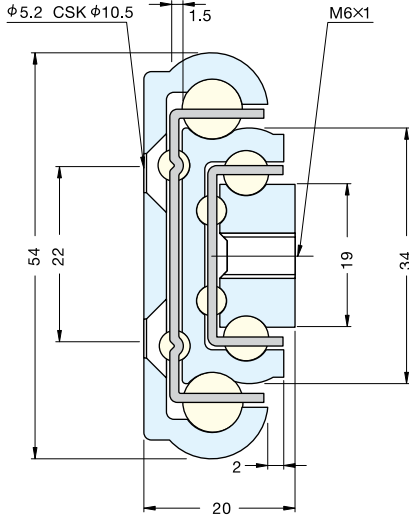


CBL-RA5R

DRAWER SLIDES

HEAVY DUTY SLIDE

*Cross section - Actual size shown



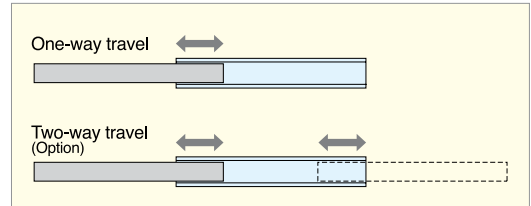
Material	Finish
Steel	Yellow Zinc



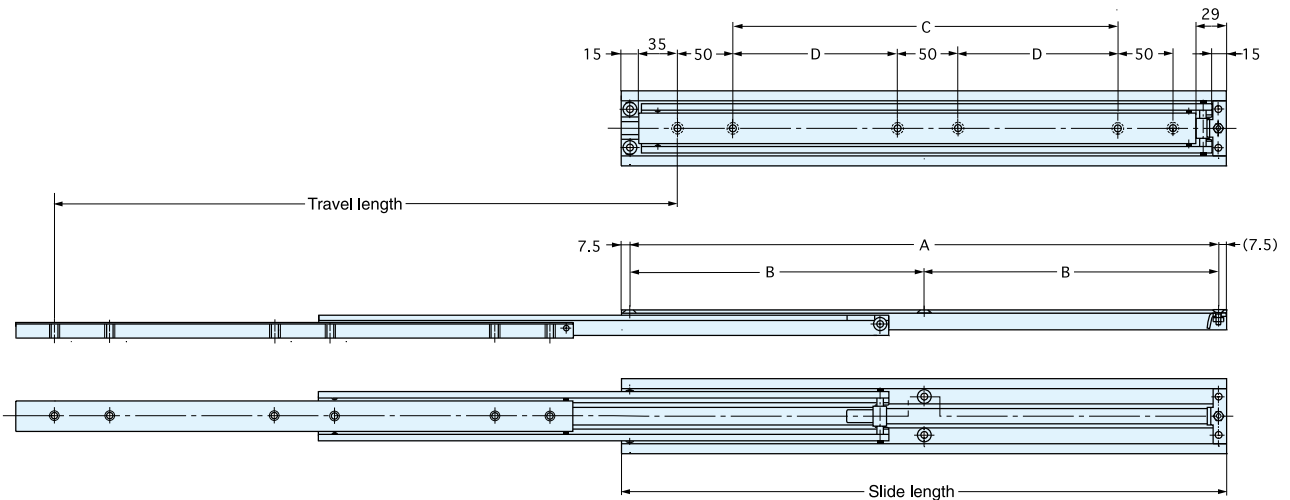
- 15mm (19/32") over travel
- Positive stop

Options:
 Positive lock
 Positive catch
 Two way travel

*Stainless steel version available upon request.
 *Please contact customer service for lead time.
 *Please see page 130 for technical specification.



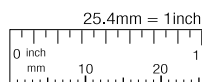
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Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-RA5R- 300	300 (11-13/16")	315 (12-25/64")	285	-	100	-	150 (330 lbs)	1350
CBL-RA5R- 500	500 (19-11/16")	515 (20-17/64")	485	-	300	-	130 (286 lbs)	2250
CBL-RA5R- 700	700 (27-9/16")	715 (28-9/64")	-	342.5	-	225	110 (242 lbs)	3150
CBL-RA5R- 900	900 (35-7/16")	915 (36-15/64")	-	448.5	-	325	90 (198 lbs)	4050
CBL-RA5R-1000	1000 (39-3/8")	1015 (39-31/32")	-	492.5	-	375	80 (176 lbs)	4500
CBL-RA5R-1200	1200 (47-1/4")	1215 (47-53/64")	-	592.5	-	475	60 (132 lbs)	5400

Different sizes available upon request.

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FULL EXTENSION SLIDE



CBL-RA7R, CBL-ST709

*Cross section - Actual size shown

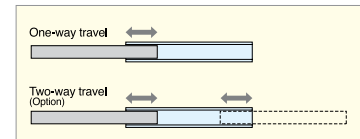


- 15mm (19/32") over travel
- Positive stop

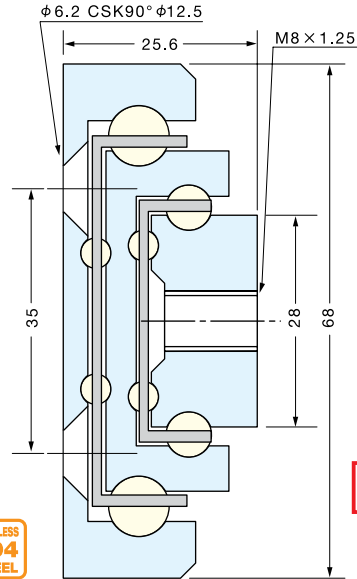
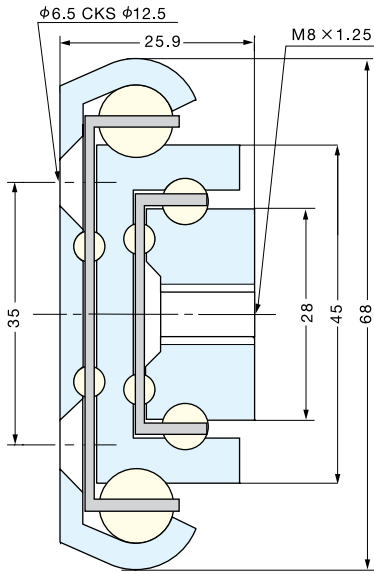
Options:

- Positive lock
- Positive catch
- Two way travel (Maximum slide length 1000mm)

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

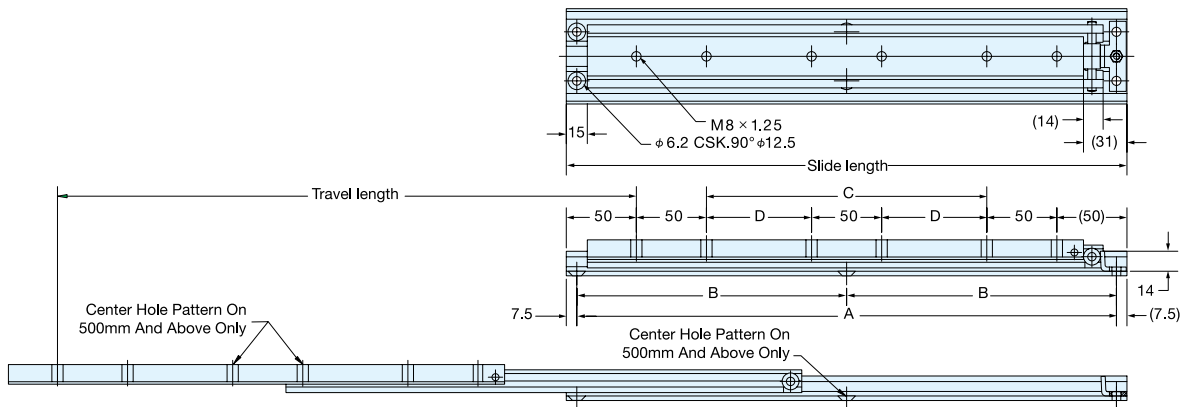


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Model	Material	Finish
CBL-RA7R	Steel	Yellow Zinc

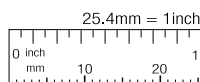
Model	Material	Finish
CBL-ST709	304 Stainless Steel	Plain



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-RA7R- 300	300 (11-13/16")	315 (12-25/64")	250	-	100	-	340 (748 lbs)	2400
CBL-RA7R- 400	400 (15-3/4")	415 (16-21/64")	385	-	200	-	330 (726 lbs)	3200
CBL-RA7R- 500	500 (19-11/16")	515 (20-17/64")	485	-	300	-	320 (704 lbs)	4000
CBL-RA7R- 600	600 (23-5/8")	615 (24-7/32")	-	292.5	-	175	300 (660 lbs)	4800
CBL-RA7R- 700	700 (27-9/16")	715 (28-9/64")	-	342.5	-	225	290 (638 lbs)	5600
CBL-RA7R- 800	800 (31-31/64")	815 (32-5/64")	-	392.5	-	275	270 (594 lbs)	6400
CBL-RA7R- 900	900 (35-7/16")	915 (36-15/64")	-	442.5	-	325	250 (550 lbs)	7200
CBL-RA7R- 1000	1000 (39-3/8")	1015 (39-31/32")	-	492.5	-	375	230 (506 lbs)	8000
CBL-RA7R- 1200	1200 (47-1/4")	1215 (47-53/64")	-	592.5	-	475	190 (418 lbs)	9600
CBL-RA7R- 1400	1400 (55-7/64")	1415 (55-45/64")	-	692.5	-	575	150 (330 lbs)	11200

Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-ST709- 300	300 (11-13/16")	315 (12-25/64")	285	-	100	-	240 (528 lbs)	2460
CBL-ST709- 400	400 (15-3/4")	415 (16-21/64")	385	-	200	-	230 (506 lbs)	3280
CBL-ST709- 500	500 (19-11/16")	515 (20-17/64")	485	-	300	-	220 (484 lbs)	4100
CBL-ST709- 600	600 (23-5/8")	615 (24-7/32")	-	292.5	-	175	200 (440 lbs)	4920
CBL-ST709- 700	700 (27-9/16")	715 (28-9/64")	-	342.5	-	225	190 (418 lbs)	5740
CBL-ST709- 800	800 (31-31/64")	815 (32-5/64")	-	392.5	-	275	170 (374 lbs)	6560
CBL-ST709- 900	900 (35-7/16")	915 (36-15/64")	-	442.5	-	325	150 (330 lbs)	7380
CBL-ST709-1000	1000 (39-3/8")	1015 (39-31/32")	-	492.5	-	375	130 (286 lbs)	8200

Different sizes available upon request.



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FULL EXTENSION SLIDE



CBL-E1700

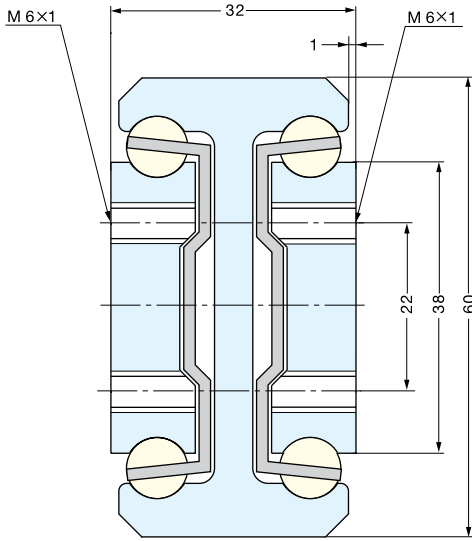
*Cross section - Actual size shown



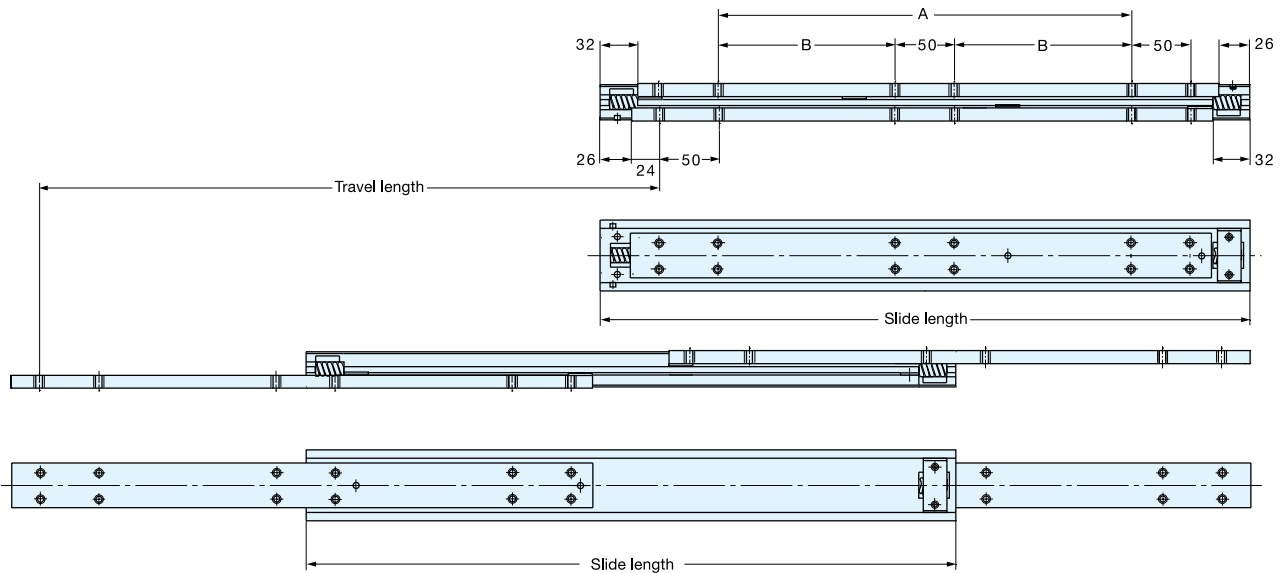
- Full extension
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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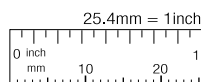
Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1700- 500	500 (19-11/16")	500 (19-11/16")	300	-	550 (1210 lbs)	5500
CBL-E1700- 600	600 (23-5/8")	600 (23-5/8")	-	175	565 (1243 lbs)	6600
CBL-E1700- 700	700 (27-9/16")	700 (27-9/16")	-	225	535 (1177 lbs)	7700
CBL-E1700- 800	800 (31-31/64")	800 (31-31/64")	-	275	500 (1100 lbs)	8800
CBL-E1700- 900	900 (35-7/16")	900 (35-7/16")	-	325	465 (1023 lbs)	9900
CBL-E1700- 1000	1000 (39-3/8")	1000 (39-3/8")	-	375	430 (946 lbs)	11000
CBL-E1700- 1100	1100 (31-31/64")	1100 (31-31/64")	-	425	395 (869 lbs)	12100
CBL-E1700- 1200	1200 (47-1/4")	1200 (47-1/4")	-	475	360 (792 lbs)	13200
CBL-E1700- 1300	1300 (51-3/16")	1300 (51-3/16")	-	525	325 (715 lbs)	14300
CBL-E1700- 1400	1400 (55-1/8")	1400 (55-1/8")	-	575	290 (638 lbs)	15400

Different sizes available upon request.

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FULL EXTENSION SLIDE



CBL-E1902

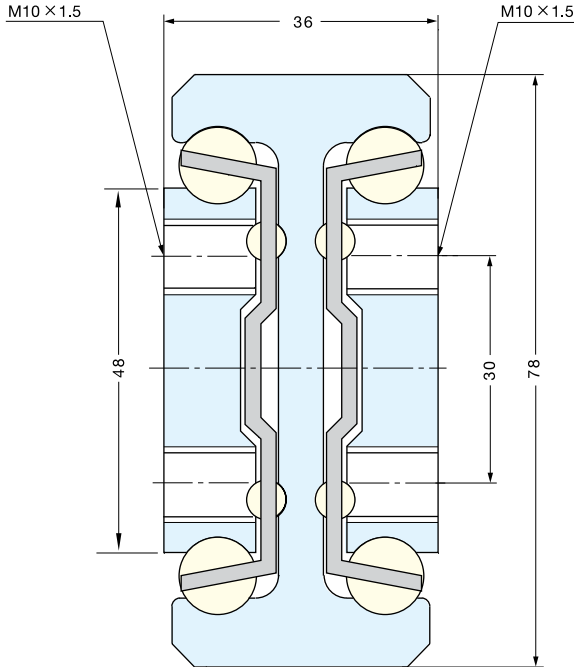
*Cross section - Actual size shown



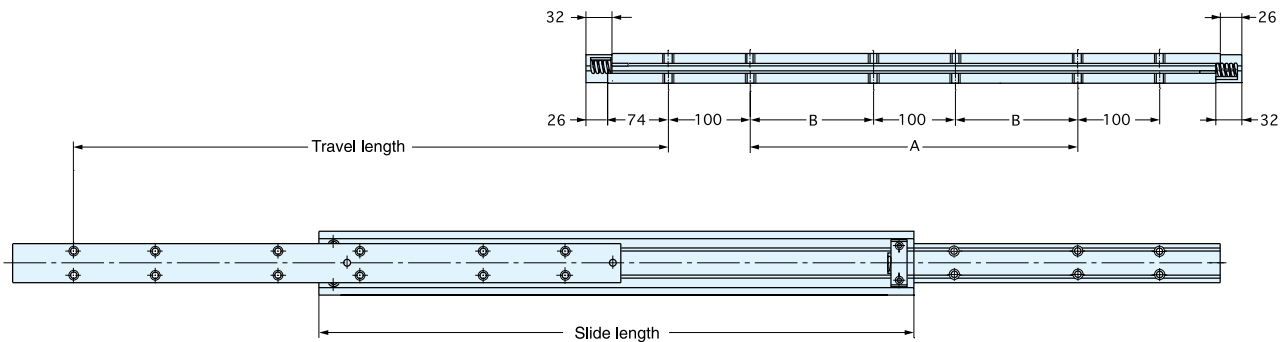
- Full extension
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

Available in U.S.A. only



Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1902- 500	500 (19-11/64")	500 (19-11/64")	100	-	900 (1980 lbs)	8000
CBL-E1902- 600	600 (23-5/8")	600 (23-5/8")	200	-	950 (2090 lbs)	9600
CBL-E1902- 700	700 (27-9/16")	700 (27-9/16")	300	-	900 (1980 lbs)	11200
CBL-E1902- 800	800 (31-31/64")	800 (31-31/64")	-	150	850 (1870 lbs)	12800
CBL-E1902- 900	900 (35-7/16")	900 (35-7/16")	-	200	800 (1760 lbs)	14400
CBL-E1902- 1000	1000 (39-3/8")	1000 (39-3/8")	-	250	750 (1650 lbs)	16000
CBL-E1902- 1200	1200 (47-1/4")	1200 (47-1/4")	-	350	650 (1430 lbs)	19200
CBL-E1902- 1400	1400 (55-7/64")	1400 (55-7/64")	-	450	550 (1210 lbs)	22400

Different sizes available upon request.

FULL EXTENSION SLIDE



CBL-E1908

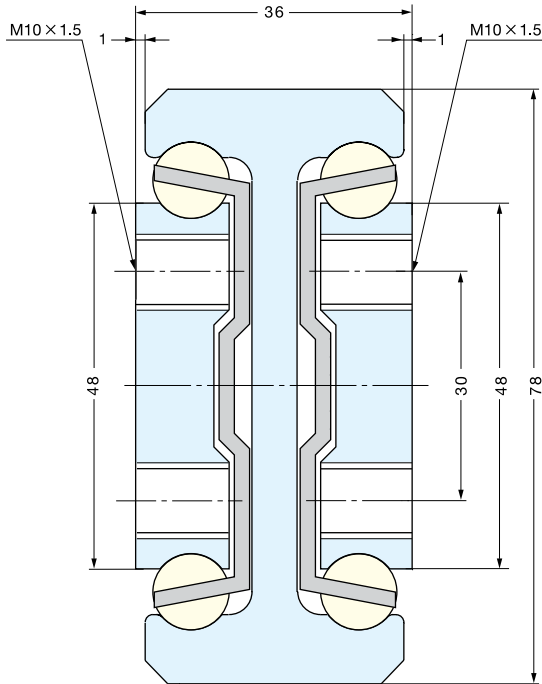
*Cross section - Actual size shown



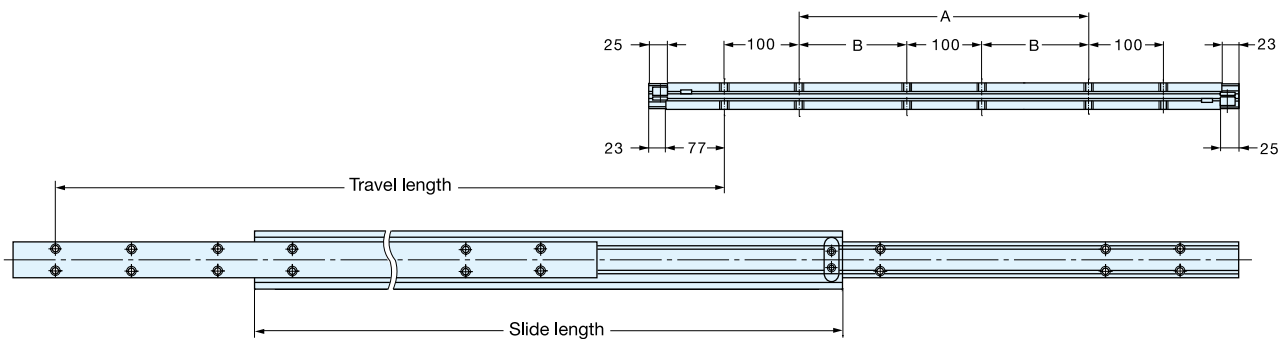
- Full extension
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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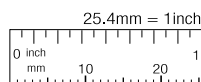
Material	Finish
304 Stainless Steel	Plain



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1908- 500	500 (19-11/16")	500 (19-11/16")	100	-	535 (1177 lbs)	8000
CBL-E1908- 600	600 (23-5/8")	600 (23-5/8")	200	-	510 (1122 lbs)	9600
CBL-E1908- 700	700 (27-9/16")	700 (27-9/16")	300	-	485 (1067 lbs)	11200
CBL-E1908- 800	800 (31-31/64")	800 (31-31/64")	-	150	460 (1012 lbs)	12800
CBL-E1908- 900	900 (35-7/16")	900 (35-7/16")	-	200	435 (957 lbs)	14400
CBL-E1908- 1000	1000 (39-3/8")	1000 (39-3/8")	-	250	410 (902 lbs)	16000
CBL-E1908- 1100	1100 (31-31/64")	1100 (31-31/64")	-	300	385 (847 lbs)	17600
CBL-E1908- 1200	1200 (47-1/4")	1200 (47-1/4")	-	350	360 (792 lbs)	19200
CBL-E1908- 1300	1300 (51-3/16")	1300 (51-3/16")	-	400	335 (737 lbs)	20800
CBL-E1908- 1400	1400 (55-1/8")	1400 (55-1/8")	-	450	310 (682 lbs)	22400
CBL-E1908- 1500	1500 (59-3/64")	1500 (59-3/64")	-	500	285 (627 lbs)	24000
CBL-E1908- 1600	1600 (62-63/64")	1600 (62-63/64")	-	550	260 (572 lbs)	25600
CBL-E1908- 1700	1700 (66-59/64")	1700 (66-59/64")	-	600	265 (583 lbs)	27200

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FULL EXTENSION SLIDE



CBL-E1020

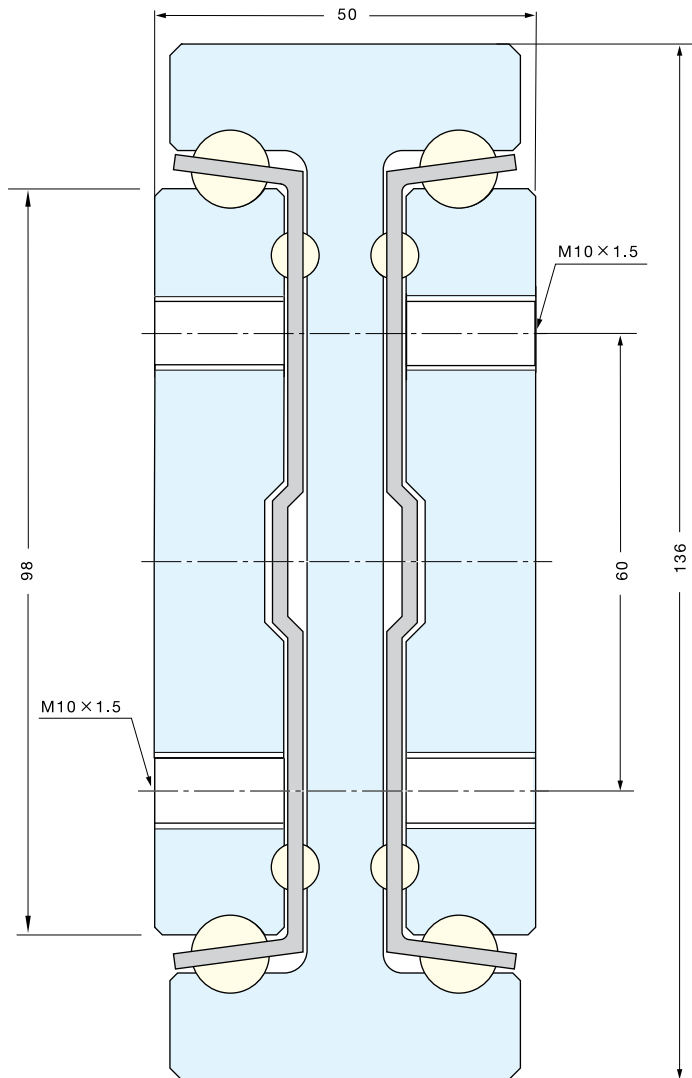
*Cross section - Actual size shown

LOAD RATING
900-1250kg
1980-2750lbs

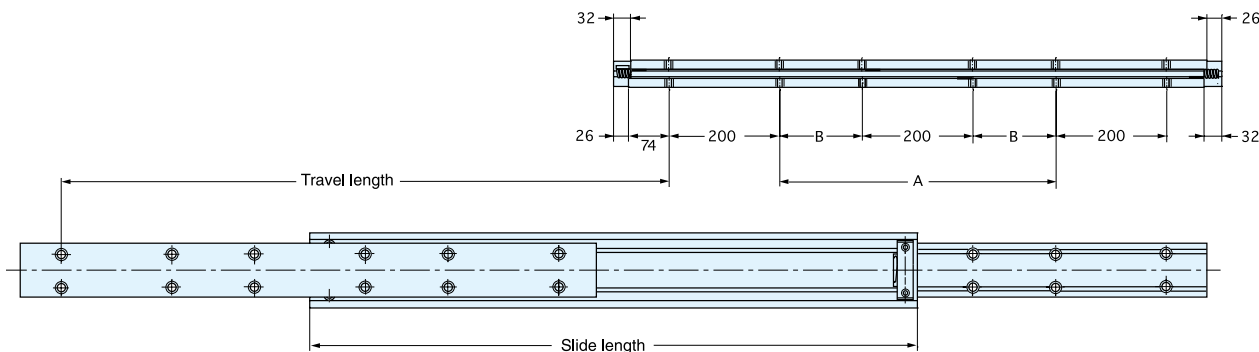
- Full extension
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1020- 800	800 (31-31/64")	800 (31-31/64")	200	-	1250 (2750 lbs)	33000
CBL-E1020- 900	900 (35-7/16")	900 (35-7/16")	300	-	1150 (2530 lbs)	37125
CBL-E1020-1000	1000 (39-3/8")	1000 (39-3/8")	400	-	1100 (2420 lbs)	41250
CBL-E1020-1200	1200 (47-1/4")	1200 (47-1/4")	-	200	1000 (2200 lbs)	49500
CBL-E1020-1400	1400 (55-7/64")	1400 (55-7/64")	-	300	900 (1980 lbs)	57750

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ULTRA OVER EXTENSION SLIDE



CBL-ST658

*Cross section - Actual size shown

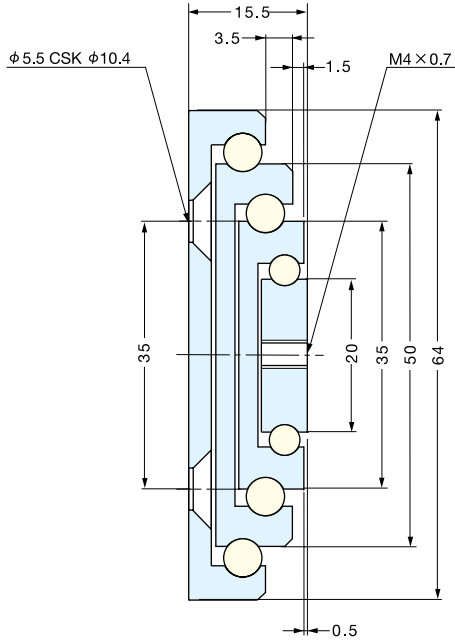
150~300mm
5-29/32"~11-13/16" OVER TRAVEL

LOAD RATING
30~45kg
66~99lbs

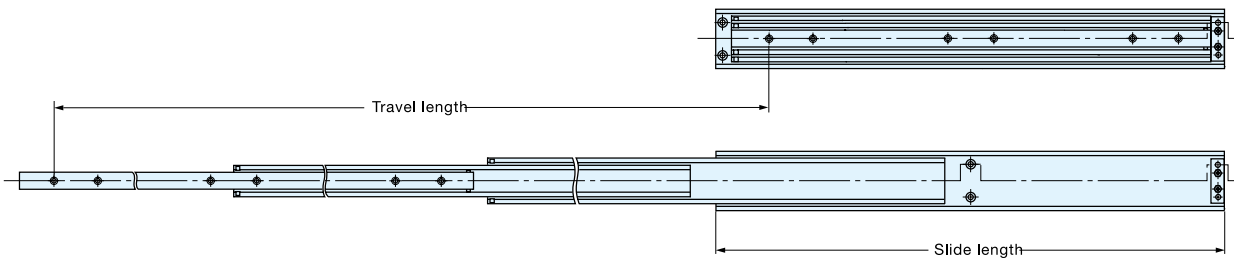
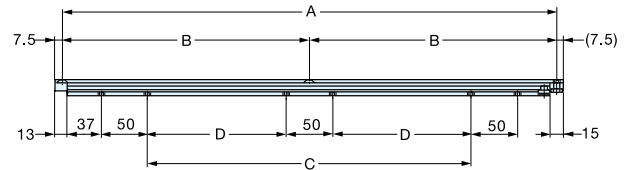
- Ultra over travel
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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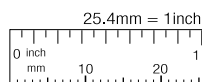
Material	Finish
304 Stainless Steel	Plain



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-ST658-300	300 (11-13/16")	450 (17-23/32")	285	-	100	-	45 (99 lbs)	1650
CBL-ST658-400	400 (15-3/4")	600 (23-5/8")	385	-	200	-	40 (88 lbs)	2200
CBL-ST658-500	500 (19-11/16")	750 (29-17/32")	485	-	300	-	35 (77 lbs)	2750
CBL-ST658-600	600 (23-5/8")	900 (35-7/16")	-	292.5	-	175	30 (66 lbs)	3300

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ULTRA OVER EXTENSION SLIDE



CBL-RA554R

*Cross section - Actual size shown

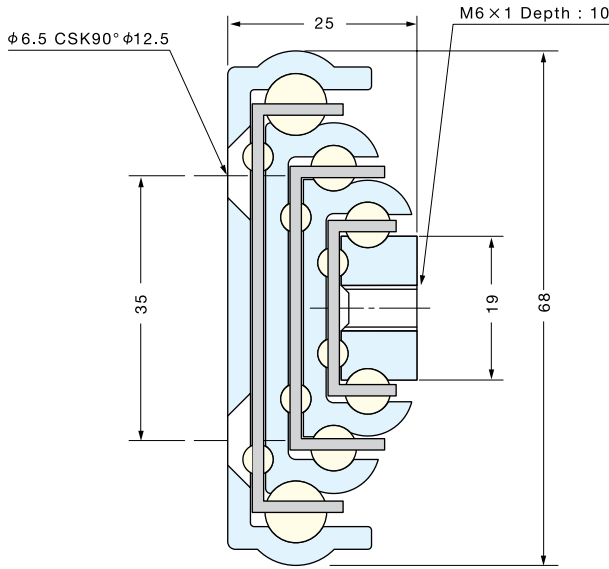
170-430mm
6-11/16" - 16-59/64" **OVER TRAVEL**

LOAD RATING
55-95kg
121-209lbs

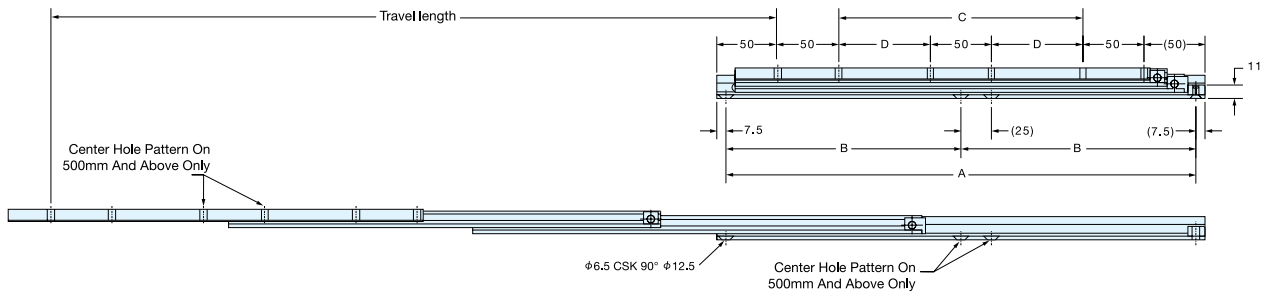
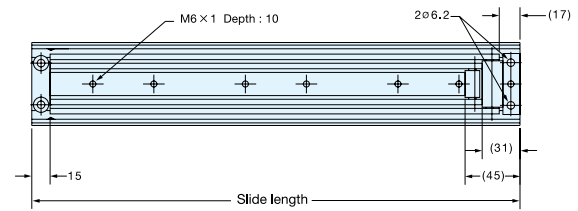
- Ultra over travel
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	C	D	Load Rating (kg/pair)	Weight (g)
CBL-RA554R-300	300 (11-13/16")	470 (18-1/2")	285	-	100	-	85 (187 lbs)	1800
CBL-RA554R-400	400 (15-3/4")	630 (24-51/64")	385	-	200	-	95 (209 lbs)	2400
CBL-RA554R-500	500 (19-11/16")	770 (30-5/16")	485	-	300	-	85 (187 lbs)	3000
CBL-RA554R-600	600 (23-5/8")	930 (36-39/64")	-	292.5	-	175	75 (165 lbs)	3600
CBL-RA554R-700	700 (27-9/16")	1070 (42-1/8")	-	342.5	-	225	65 (143 lbs)	4200
CBL-RA554R-800	800 (31-31/64")	1230 (48-27/64")	-	392.5	-	275	55 (121 lbs)	4800

Different sizes available upon request.

ULTRA OVER EXTENSION SLIDE



CBL-E1014

*Cross section - Actual size shown

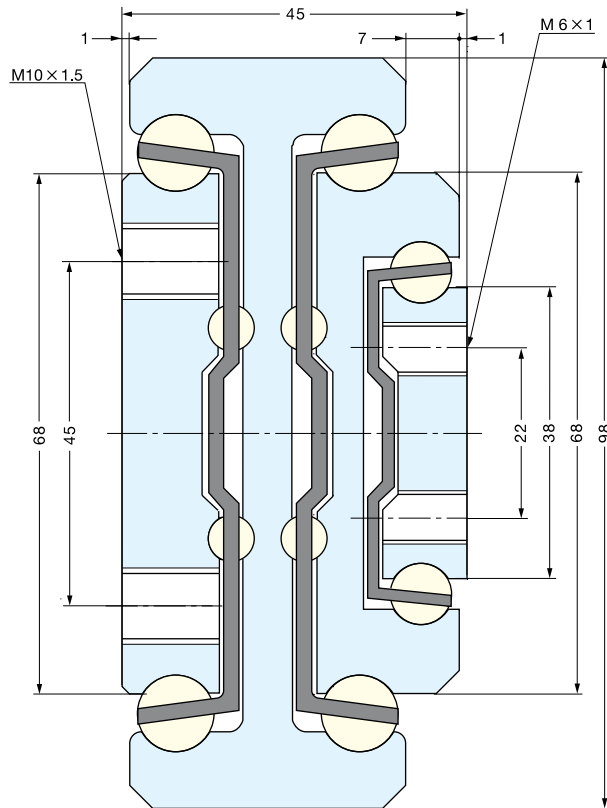
400~700mm
15-3/4"~27-9/16" **OVER TRAVEL**

LOAD RATING
300~500kg
660~1100lbs

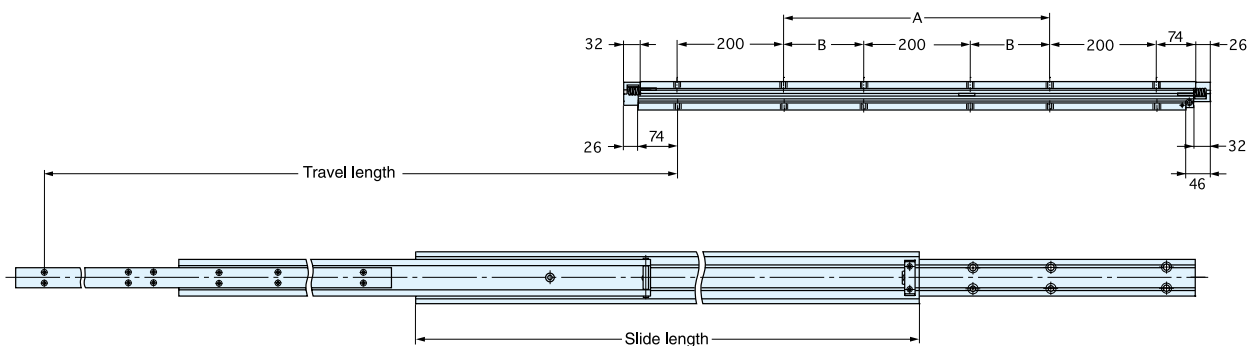
- Ultra over travel
- Positive stop

*Please contact customer service for lead time.
*Please see page 130 for technical specification.

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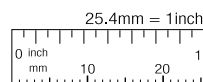
Material	Finish
Steel	Yellow Zinc



Item No.	Slide Length	Travel Length	A	B	Load Rating (kg/pair)	Weight (g)
CBL-E1014- 800	800 (31-31/64")	1200 (47-1/4")	200	-	500 (1100lbs)	20000
CBL-E1014- 900	900 (35-7/16")	1350 (53-5/32")	300	-	450 (990lbs)	22500
CBL-E1014- 1000	1000 (39-3/8")	1500 (59-3/64")	400	-	400 (880lbs)	25000
CBL-E1014- 1200	1200 (47-1/4")	1800 (70-55/64")	-	200	350 (770lbs)	30000
CBL-E1014- 1400	1400 (55-7/64")	2100 (82-43/64")	-	300	300 (660lbs)	35000

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CBL SERIES Technical Specification

General Mounting Guidelines

Side mount

The published weight capacities are based on the side mount applications. This mounting option offers the best performance of the drawer slides. This is most commonly used in drawers and trays.

Flat mount

Weight capacity of the slides will be reduced to 40% of the published figures. Unlike the common drawer slides, selected CBL models come with additional ball bearings in the inner ball cages to sustain higher weight capacities in this orientation.

Deflection

Due to the lengths offered in the CBL series, the weight capacities published in the catalog is based on a maximum sag of 1mm over 1 meter (39.37"). In addition torsional deflection is less than 1° over 1 meter (39.37").

Manufacturing tolerances / Thickness tolerances:

The general manufacturing tolerances of slides and guidance rails conform to the JS13 standard. The slide is an assembly of profiles, each of them presenting tolerances of 1 mm per meter in straightness and of 1° per meter in twisting. These tolerances are achieved by fitting different diameters of ball bearings. This leads to a thickness tolerance of ± 0.3 mm.

Options :

Locking



Positive Lock

Positive Catch

Available on selected models for the closed, open and in both positions

Disconnecting

Available on selected models

Two way travel

Selected models - Slides will extend out in both forward and rearward directions

Customized lengths

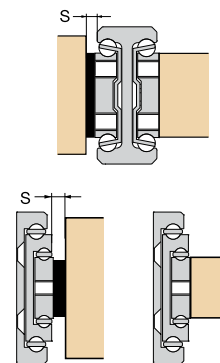
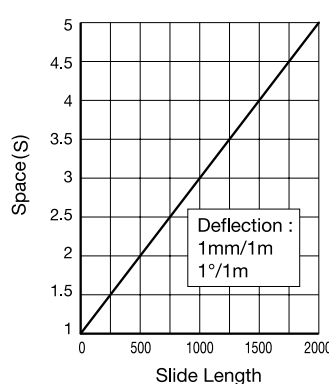
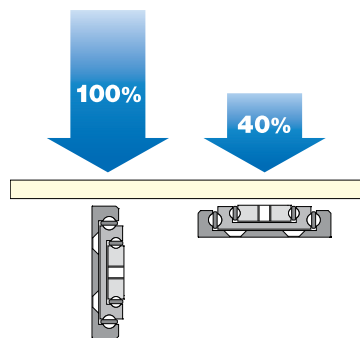
150mm to 2,000mm lengths available in selected models.

Screw position and screw size

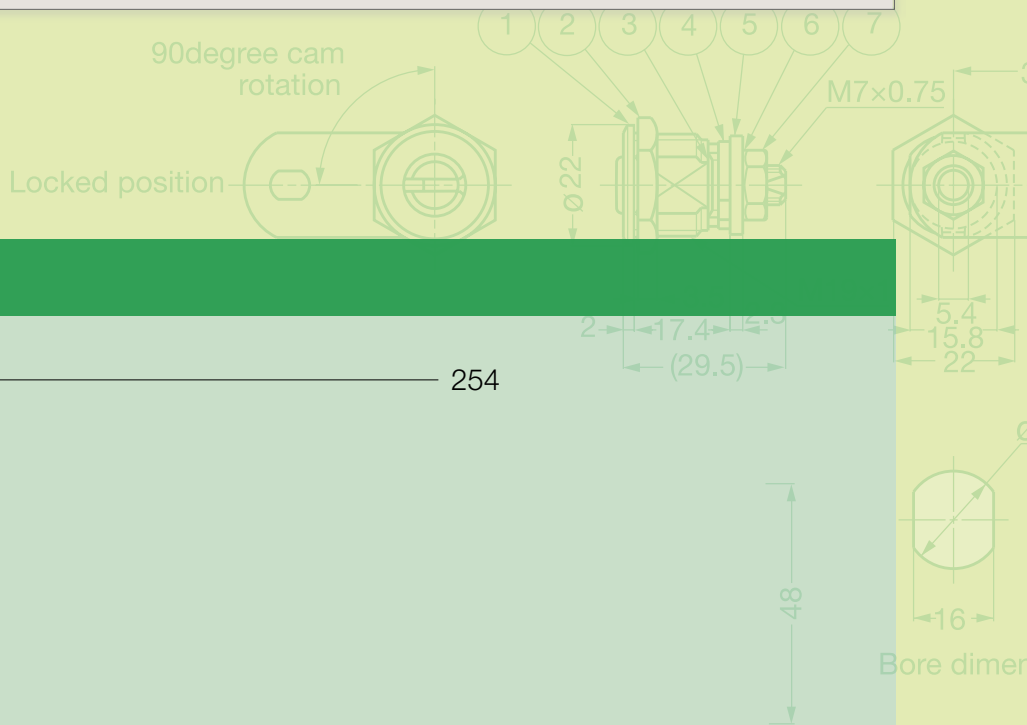
Screw locations can be made to order based on specification. Standard CBL screws are metric. These screw holes can be made to standard screw sizes.

Surface treatments (Steel)

White, black or olive green zinc plating
 Organo-mineral finish on zinc plating (withstands 500 hours of salt spray testing)
 Chemical nickel plating
 Nitration



LOCKS



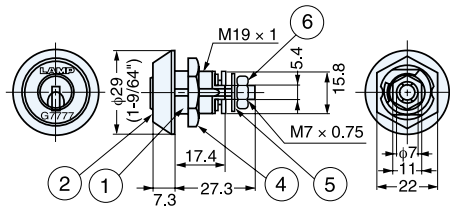
LOCKS

□ LOCKS

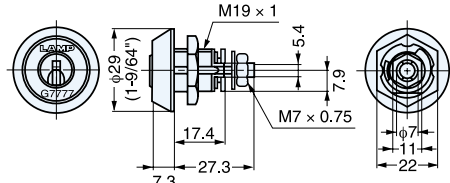
254

SHEET METAL CAM LOCK

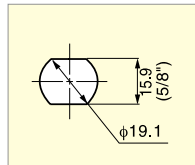
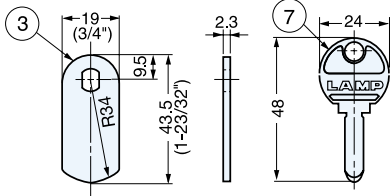
900



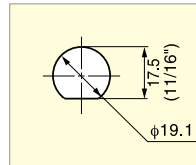
900 (Standard type)



900MK (Master key type)



Cut Out Dimensions (Standard type)

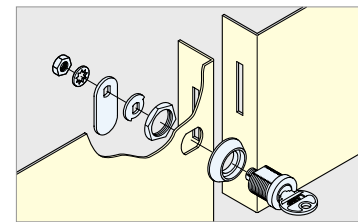


Cut Out Dimensions (Master key type)

- Brass cylinder cam lock.
- Reversible key.
- 90 degree cam rotation.
- Key is removable in locked position only. (Key works as a knob in unlocked position.)
- 1 million key changes available.
- Master key type available at surcharge. (Maximum 2,520 key changes per master key.)

No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Ring	Brass	Chrome
③	Cam	Steel	Yellow Zinc Chromate
④	Hex Nut	Steel	Nickel
⑤	Washer	Steel	Yellow Zinc Chromate
⑥	Hex Nut	Steel	Yellow Zinc Chromate
⑦	Key	Brass	Nickel

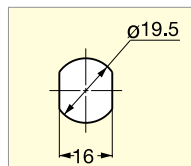
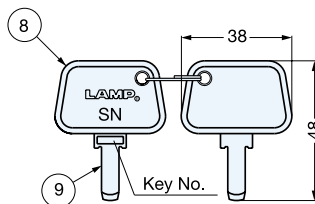
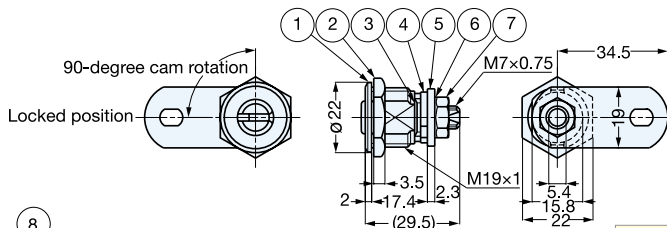
Item No.	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
900	1 million (2520/1Master Key)	2	120	12	60
900MK (with Master key)					



Installation

SHEET METAL CAM LOCK

SN-711-8



Cut Out Dimensions

- Brass cylinder cam lock.
- 90 degree cam rotation.
- Key is removable in locked position only.

* Extreme pressure on key when in unlocked position may cause damage to the lock.

No.	Part Name	Material	Finish/Color
①	Body	Brass	Chrome
②	Large Hex Nut	Steel	Yellow Zinc Chromate
③	Ring	304 Stainless Steel	Plain
④	Cam	Steel	Chromate
⑤	Plate		
⑥	Washer		
⑦	Small Hex Nut	Steel	Yellow Zinc Chromate
⑧	Cover	ABS	Black
⑨	Key	Brass	Nickel

Item No.	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
SN-711-8	1500	2	77	50	150

PUSH LOCK

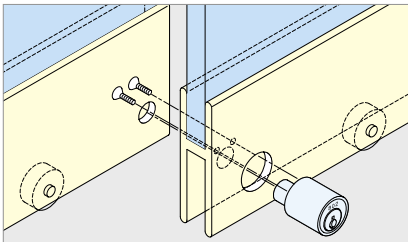
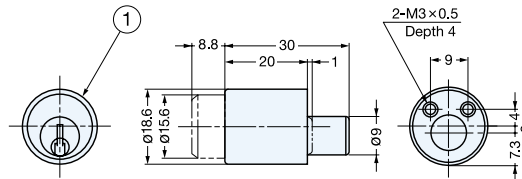


2100B

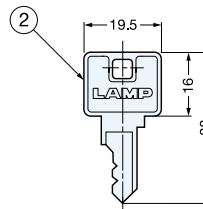


- Zinc alloy cylinder push lock for metal-framed glass doors or sheet metal double sliding doors.
- Same key for 2100 series locks can be used.
- Can be locked by pushing the cylinder, without using a key.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Nickel
②	Key	Brass	



Installation



Item No.	Metal Frame Thickness	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
2100B	20 (25/32")	18.6 (47/64")	12	2	50	40	400

PUSH LOCK

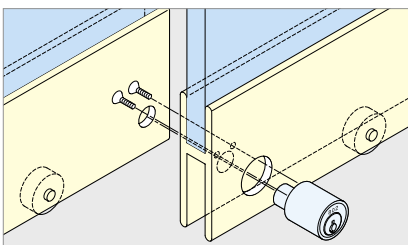
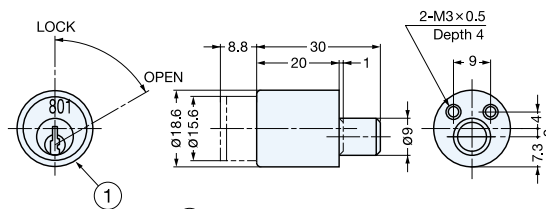


2110B

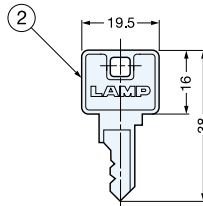


- Zinc alloy cylinder push lock for metal-framed glass doors or sheet metal double sliding doors.
- Same key for 2100 series locks can be used.
- Key is required to lock and to unlock.
- Key is removable in both locked and un-locked position.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Nickel
②	Key	Brass	



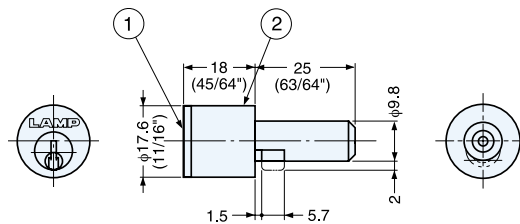
Installation



Item No.	Metal Frame Thickness	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
2110B	20 (25/32")	18.6 (47/64")	12	2	50	40	400

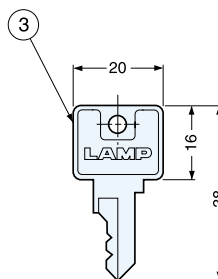
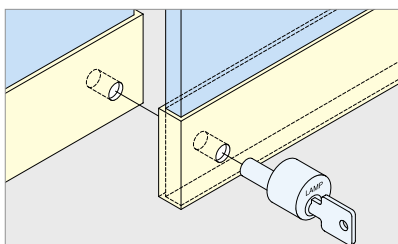
PUSH LOCK

6300



- Zinc alloy cylinder push lock for metal-framed glass door with 2 keys.
- Easy installation. Only 10mm hole required.
- Cylinder Diameter: 17.6mm (11/16")
- Bolt Length: 25mm (63/64")
- Bolt Diameter: 9.8mm (25/64")
- 96 key changes.
- Master key NOT available.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Satin Nickel (DN)
②	Cover	Brass	Nickel
③	Key		



Installation

Item No.	Metal Frame Thickness	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
6300	19 (3/4")	17.6 (11/16")	96	2	50	24	240

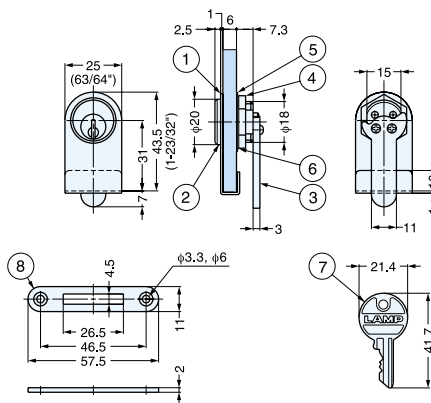
GLASS DOOR CAM LOCK

1100GL



1100GL / PB

1100GL / CR



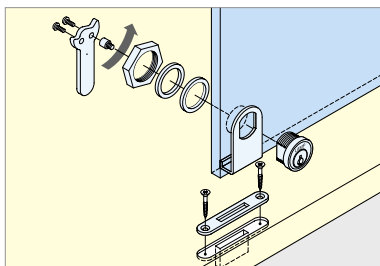
- Chrome or polished brass cylinder glass door lock with 2 keys.
- Cylinder Diameter: 18mm (45/64")
- Key works as a knob in unlocked position.
- 25 key changes.
- Master key NOT available.

1100GL-CR

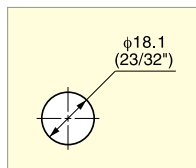
No.	Part Name	Material	Finish
①	Front Plate	304 Stainless Steel	Polished
②	Body	Brass	Chrome
③	Cam	Steel	Nickel
④	Hex Nut	Brass	
⑤	Plastic Washer	Polyamide	Natural
⑥	Washer	Steel	Chrome
⑦	Key	Brass	Nickel
⑧	Counterplate	Steel	Chromate

1100GL-PB

No.	Part Name	Material	Finish
①	Front Plate	Brass	Clear Lacquer Polished
②	Body		
③	Cam	Steel	Brass
④	Hex Nut	Brass	Plain
⑤	Plastic Washer	Polyamide	Natural
⑥	Washer	Steel	Chrome
⑦	Key	Brass	Clear Lacquer Polished
⑧	Counterplate	Steel	Brass



Installation

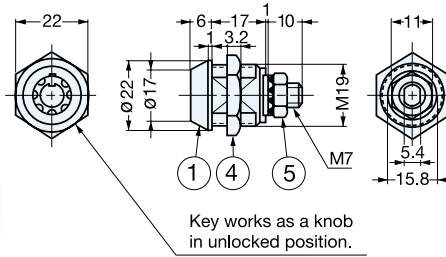


Cut Out Dimensions

Item No.	Glass Thickness	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
1100GL/CR	4-6 (5/32"~15/64")	18 (45/64")	25	2	65	25	250
1101GL/PB	4-6 (5/32"~15/64")	18 (45/64")	25	2	65	25	250

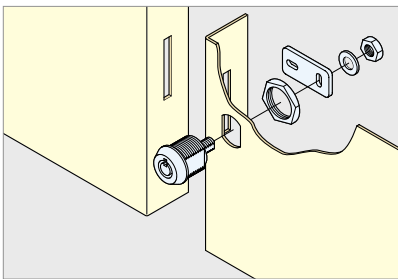
SHEET METAL CAM LOCK

NAL

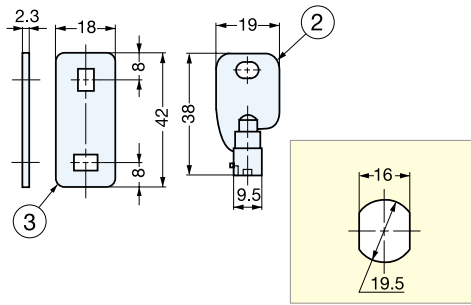


- Brass cylinder tubular cam lock.
- 90 degree cam rotation.
- Key is removable in locked position only. (Key can be used as knob in unlocked position.)
- Special order for different key configuration available upon request.
- 5,000 key changes.

No.	Part Name	Material	Finish
①	Body	Brass	Chrome
②	Key	Steel	Nickel
③	Cam		Yellow Zinc Chromate
④	Hex Nut		
⑤			



Installation

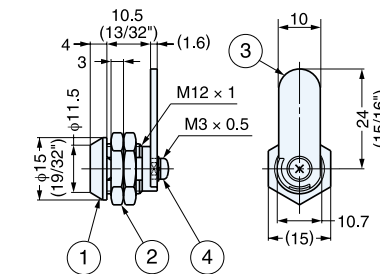


Cut Out Dimensions

Item No.	Door Thickness	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
NAL	Less Than 10 (25/64")	19 (3/4") / Width 15.8 (5/8")	5000	2	55	100	300

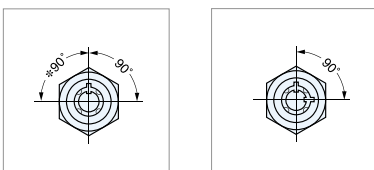
SHEET METAL MINI CAM LOCK

NAL-S



- Mini zinc alloy cylinder cam lock.
- 90 degrees cam rotation.
- Cam is reversible.
- NAL-S-1: Key withdrawals in locked position only. (Key works as a knob in unlocked position.)
- NAL-S-2: Key withdrawals in both locked and unlocked positions.
- Master key type available upon request. (Special order)

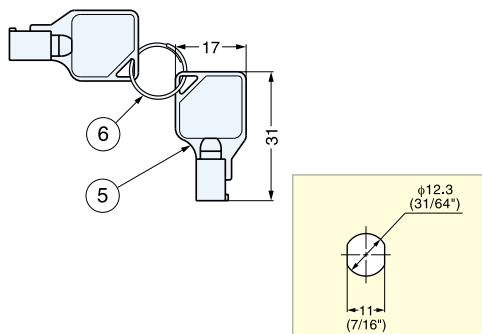
* Cam should be horizontal when locked, and should be pointing upwards when unlocked.
 * Not suitable for compression latch situation.
 * Pressure to cam may cause damage to cylinder.



* One slot type NAL-S-1

Two slot type NAL-S-2

* Turn the cam (③) over to use NAL-S as a counterclockwise turn lock.



Cut Out Dimensions

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Chrome
②	Hex Nut	Steel	Nickel
③	Cam		Zinc
④	Screw		Nickel
⑤	Key	Steel & Brass	
⑥	Key Ring	Steel	

Item No.	Number of Slot (s)	Cylinder Diameter	Key Changes	Keys Included	Weight (g)	Box (pcs)	Carton (pcs)
NAL-S-1	1	12(15/32") / Width 10.7(27/64")	100	2	25	100	500
NAL-S-2	2	12(15/32") / Width 10.7(27/64")	100	2	25	100	500

CABINET LOCK



5830-24MK

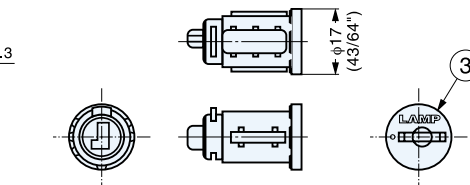
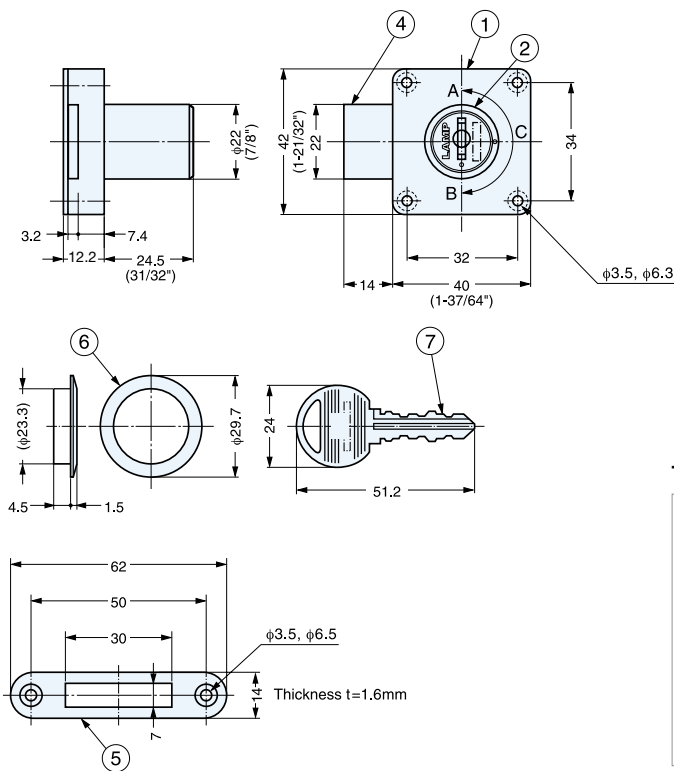


PAT. P

- Interchangeable Cylinder Lock with long dead bolt.
- Inner cylinder can be changed by using optional cylinder change key. (5830-K1)
- Ideal for applications where keys are often lost, and key numbers need to be changed for security.
- Housing, cylinder and 2 keys included.
- Cylinder case diameter: 22mm (7/8")
- Max. 3,120 key changes available. (780 per master key.)

* Master Key (5830-MK1) and Cylinder Change Key (5830-K1) sold separately.

No.	Part Name	Material	Finish
①	Body	Zinc Alloy	Nickel
②	Cylinder Case	Steel	
③	Interchangeable Cylinder	Zinc Alloy	
④	Dead Bolt	Steel	
⑤	Counterplate		
⑥	Ring	Brass	
⑦	Key		



To remove the cylinder:

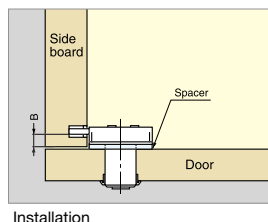
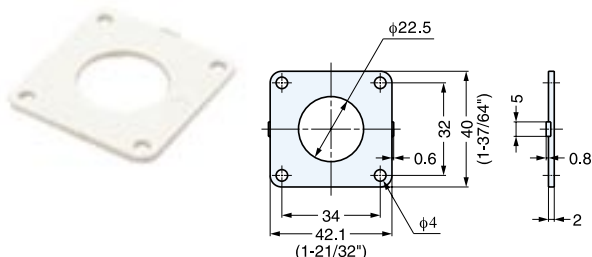
Turn cylinder by using cylinder change key (optional). Match dots on cylinder and case. Pull key to detach.

Cylinder locked Cylinder un-locked

Item No.	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)
5830-24MK	24 (15/16")	155	12	60

SPACER FOR 5830 LOCK

5830-SP



- Spacer for adjusting dimension.
- Multiple spacers can be used if needed.

Item No.	Material	Color
5830-SP	ABS	White

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1		
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149 SERIES	PUSH LOCK FASTENER (PUSH-TURN TYPE)	31
1100GL	GLASS DOOR CAM LOCK	256
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2LC	HANDLE	206
2LC-Ti	HANDLE (TITANIUM)	3
251F	PUSH LOCK FASTENER (LARGE / FLUSH)	28
252F	PUSH LOCK FASTENER (MINI / FLUSH)	29
255F	PUSH LOCK FASTENER (MINI / BUTTON TYPE)	30
2100B	PUSH LOCK	255
2110B	PUSH LOCK	255
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2736	FULL EXTENSION SLIDE	100
26700	RING PULL	226
26900	RING PULL	226
26901	RING PULL	226
27800	BUTT HINGE	164
27900	BUTT HINGE	164
28000	BUTT HINGE	164
28100	BUTT HINGE	165
28300	BUTT HINGE	165
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Inch to Metric Conversion table

Metric to Inch Conversion

	1"	2"	3"	4"	5"	6"	7"	8"	9"	10"	11"	12"
0/0	0.0	25.4	50.8	76.2	101.6	127.0	152.4	177.8	203.2	228.6	254.0	304.8
1/64	0.4	25.8	51.2	76.6	102.0	127.4	152.8	178.2	203.6	229.0	254.4	305.2
1/32	0.8	26.2	51.6	77.0	102.4	127.8	153.2	178.6	204.0	229.4	254.8	305.6
3/64	1.2	26.6	52.0	77.4	102.8	128.2	153.6	179.0	204.4	229.8	255.2	306.0
1/16	1.6	27.0	52.4	77.8	103.2	128.6	154.0	179.4	204.8	230.2	255.6	306.4
5/64	2.0	27.4	52.8	78.2	103.6	129.0	154.4	179.8	205.2	230.6	256.0	306.8
3/32	2.4	27.8	53.2	78.6	104.0	129.4	154.8	180.2	205.6	231.0	256.4	307.2
7/64	2.8	28.2	53.6	79.0	104.4	129.8	155.2	180.6	206.0	231.4	256.8	307.6
1/8	3.2	28.6	54.0	79.4	104.8	130.2	155.6	181.0	206.4	231.8	257.2	308.0
9/64	3.6	29.0	54.4	79.8	105.2	130.6	156.0	181.4	206.8	232.2	257.6	308.4
5/32	4.0	29.4	54.8	80.2	105.6	131.0	156.4	181.8	207.2	232.6	258.0	308.8
11/64	4.4	29.8	55.2	80.6	106.0	131.4	156.8	182.2	207.6	233.0	258.4	309.2
3/16	4.8	30.2	55.6	81.0	106.4	131.8	157.2	182.6	208.0	233.4	258.8	309.6
13/64	5.2	30.6	56.0	81.4	106.8	132.2	157.6	183.0	208.4	233.8	259.2	310.0
7/32	5.6	31.0	56.4	81.8	107.2	132.6	158.0	183.4	208.8	234.2	259.6	310.4
15/64	6.0	31.4	56.8	82.2	107.6	133.0	158.4	183.8	209.2	234.6	260.0	310.8
1/4	6.4	31.8	57.2	82.5	108.0	133.4	158.8	184.2	209.6	235.0	260.4	311.2
17/64	6.7	32.1	57.5	82.9	108.3	133.7	159.1	184.5	209.9	235.3	260.7	311.5
9/32	7.1	32.5	57.9	83.3	108.7	134.1	159.5	184.9	210.3	235.7	261.1	311.9
19/64	7.5	32.9	58.3	83.7	109.1	134.5	159.9	185.3	210.7	236.1	261.5	312.3
5/16	7.9	33.3	58.7	84.1	109.5	134.9	160.3	185.7	211.1	236.5	261.9	312.7
21/64	8.3	33.7	59.1	84.5	109.9	135.3	160.7	186.1	211.5	236.9	262.3	313.1
11/32	8.7	34.1	59.5	84.9	110.3	135.7	161.1	186.5	211.9	237.3	262.7	313.5
23/64	9.1	34.5	59.9	85.3	110.7	136.1	161.5	186.9	212.3	237.7	263.1	313.9
3/8	9.5	34.9	60.3	85.7	111.1	136.5	161.9	187.3	212.7	238.1	263.5	314.3
25/64	9.9	35.3	60.7	86.1	111.5	136.9	162.3	187.7	213.1	238.5	263.9	314.7
13/32	10.3	35.7	61.1	86.5	111.9	137.3	162.7	188.1	213.5	238.9	264.3	315.1
27/64	10.7	36.1	61.5	86.9	112.3	137.7	163.1	188.5	213.9	239.3	264.7	315.5
7/16	11.1	36.5	61.9	87.3	112.7	138.1	163.5	188.9	214.3	239.7	265.1	315.9
29/64	11.5	36.9	62.3	87.7	113.1	138.5	163.9	189.3	214.7	240.1	265.5	316.3
15/32	11.9	37.3	62.7	88.1	113.5	138.9	164.3	189.7	215.1	240.5	265.9	316.7
31/64	12.3	37.7	63.1	88.5	113.9	139.3	164.7	190.1	215.5	240.9	266.3	317.1
1/2	12.7	38.1	63.5	88.9	114.3	139.7	165.1	190.5	215.9	241.3	266.7	317.5
33/64	13.1	38.5	63.9	89.3	114.7	140.1	165.5	190.9	216.3	241.7	267.1	317.9
17/32	13.5	38.9	64.3	89.7	115.1	140.5	165.9	191.3	216.7	242.1	267.5	318.3
35/64	13.9	39.3	64.7	90.1	115.5	140.9	166.3	191.7	217.1	242.5	267.9	318.7
9/16	14.3	39.7	65.1	90.5	115.9	141.3	166.7	192.1	217.5	242.9	268.3	319.1
37/64	14.7	40.1	65.5	90.9	116.3	141.7	167.1	192.5	217.9	243.3	268.7	319.5
19/32	15.1	40.5	65.9	91.3	116.7	142.1	167.5	192.9	218.3	243.7	269.1	319.9
39/64	15.5	40.9	66.3	91.7	117.1	142.5	167.9	193.3	218.7	244.1	269.5	320.3
5/8	15.9	41.3	66.7	92.1	117.5	142.9	168.3	193.7	219.1	244.5	269.9	320.7
41/64	16.3	41.7	67.1	92.5	117.9	143.3	168.7	194.1	219.5	244.9	270.3	321.1
21/32	16.7	42.1	67.5	92.9	118.3	143.7	169.1	194.5	219.9	245.3	270.7	321.5
43/64	17.1	42.5	67.9	93.3	118.7	144.1	169.5	194.9	220.3	245.7	271.1	321.9
11/16	17.5	42.9	68.3	93.7	119.1	144.5	169.9	195.3	220.7	246.1	271.5	322.3
45/64	17.9	43.3	68.7	94.1	119.5	144.9	170.3	195.7	221.1	246.5	271.9	322.7
23/32	18.3	43.7	69.1	94.5	119.9	145.3	170.7	196.1	221.5	246.9	272.3	323.1
47/64	18.7	44.1	69.5	94.9	120.3	145.7	171.1	196.5	221.9	247.3	272.7	323.5
3/4	19.1	44.5	69.9	95.2	120.7	146.1	171.5	196.9	222.3	247.7	273.1	323.9
49/64	19.4	44.8	70.2	95.6	121.0	146.4	171.8	197.2	222.6	248.0	273.4	324.2
25/32	19.8	45.2	70.6	96.0	121.4	146.8	172.2	197.6	223.0	248.4	273.8	324.6
51/64	20.2	45.6	71.0	96.4	121.8	147.2	172.6	198.0	223.4	248.8	274.2	325.0
13/16	20.6	46.0	71.4	96.8	122.2	147.6	173.0	198.4	223.8	249.2	274.6	325.4
53/64	21.0	46.4	71.8	97.2	122.6	148.0	173.4	198.8	224.2	249.6	275.0	325.8
27/32	21.4	46.8	72.2	97.6	123.0	148.4	173.8	199.2	224.6	250.0	275.4	326.2
55/64	21.8	47.2	72.6	98.0	123.4	148.8	174.2	199.6	225.0	250.4	275.8	326.6
7/8	22.2	47.6	73.0	98.4	123.8	149.2	174.6	200.0	225.4	250.8	276.2	327.0
57/64	22.6	48.0	73.4	98.8	124.2	149.6	175.0	200.4	225.8	251.2	276.6	327.4
29/32	23.0	48.4	73.8	99.2	124.6	150.0	175.4	200.8	226.2	251.6	277.0	327.8
59/64	23.4	48.8	74.2	99.6	125.0	150.4	175.8	201.2	226.6	252.0	277.4	328.2
15/16	23.8	49.2	74.6	100.0	125.4	150.8	176.2	201.6	227.0	252.4	277.8	328.6
61/64	24.2	49.6	75.0	100.4	125.8	151.2	176.6	202.0	227.4	252.8	278.2	329.0
31/32	24.6	50.0	75.4	100.8	126.2	151.6	177.0	202.4	227.8	253.2	278.6	329.4
63/64	25.0	50.4	75.8	101.2	126.6	152.0	177.4	202.8	228.2	253.6	279.0	329.8

mm	Inches
0.1	0.0039
0.2	0.0079
0.3	0.0118
0.4	0.0157
0.5	0.0197
0.6	0.0236
0.7	0.0276
0.8	0.0315
0.9	0.0354
1	0.0394
2	0.0787
3	0.1181
4	0.1575
5	0.1969
6	0.2362
7	0.2756
8	0.3150
9	0.3543
10	0.3937
11	0.4331
12	0.4724
13	0.5118
14	0.5512
15	0.5906
16	0.6299
17	0.6693
18	0.7087
19	0.7480
20	0.7874
21	0.8268
22	0.8661
23	0.9055
24	0.9449
25	0.9843
26	1.0236
27	1.0630
28	1.1024
29	1.1417
30	1.1811
31	1.2205
32	1.2598
33	1.2992
34	1.3386
35	1.3780
36	1.4173
37	1.4567
38	1.4961
39	1.5354
40	1.5748
41	1.6142
42	1.6535
43	1.6929
44	1.7323
45	1.7717
46	1.8110
47	1.8504
48	1.8898
49	1.9291
50	1.9685
51	2.0079
52	2.0472
53	2.0866
54	2.1260
55	2.1654