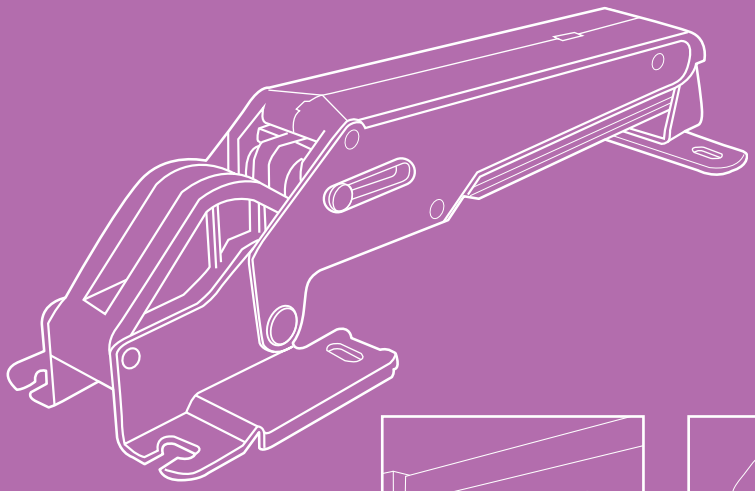
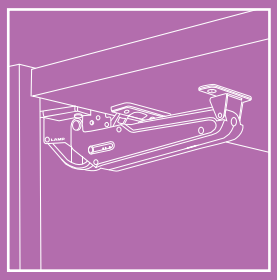
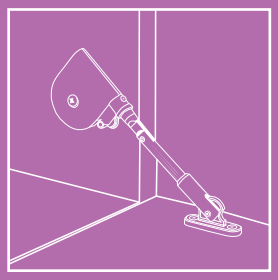


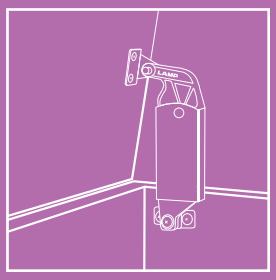
Lid Supports.

Top-Opening Lid Supports • Upward/ Downward-Opening Lid Supports
Side-Opening Lid Stays • Rotating Door Systems and Accessories
Cabinet Door and Lid Control Hardware Accessories









LAPCON/SOFT CLOSING STAYS

Picture	Item No.	Torque (in-lbs) or Door weight (lbs)	Page
	ARN-2 Top Opening	35.4~70.8	478
	ARN-3 Upward Opening	35.4~70.8	479
	SDS-C100	30~43 (in-lbs) / pc	481
	SDS-200, SDS-210	30.3~43.3 lbs·in / pc	482
	SDS-C301N	35~60 (in-lbs) / pc	484~485
	SDS-50G	-	485
	SDS-100-TV/TVZ	4.3~32.6 (in-lbs) / pc	486
	UDD	4.4~26.6 (in-lbs) / pair	487
	UDD-BKT	-	487
	CSD-10-TV	8.8~35.4 (in-lbs) / pc	488
	NSDX-10	19~60 (in-lbs) / pc	491
	NSDX-20	19~60 (in-lbs) / pc	492
	NSDX-35	19~60 (in-lbs) / pc	493
	NSDX-10(R/L)K/TV	8.7~17.4 (in-lbs) / pc	494
	HDS-10	121~260 (in-lbs) / pair	496
	HDS-10S	52~156 (in-lbs) / pair	497
	HDS-20	121~260 (in-lbs) / pair	498
	HDS-20S	61~130 (in-lbs) / pair	499
	HDS-30	121~260 (in-lbs) / pair	500
	HDSN-30	122~260 (in-lbs) / pair	501

Picture	Item No.	Torque (in-lbs) or Door weight (lbs)	Page
	SLS-ELAN	48~87 (in-lbs) / pc	503
	EZS-ELAN	Door Weight 11~27.5 lbs	504~505
	SLU-ELAN	Door Weight 11~24.2 lbs	506~507
	FFCB-HG-1	-	508
	FFCB-SLS	-	508
	FFCB-SLU	-	509
	FFCB-SD-1	-	509
	SLUN	Door Weight 6.2~12.8 lbs	510~511
	SLUL	Door Weight 11~24.2 lbs	512
	SLD	Door Weight 6.6~13.2 lbs	516~517
	SLDL	Door Weight 6.6~14 lbs	514
	HBFN-SZ	-	518
	HBFN	Door Weight 5.5~12.1 lbs	519
	OVN	Door Weight 6.6~15.4 lbs	520~521
	OV	Door Weight 6.6~11 lbs	522~523
	YMC	Door Weight 0.66~1.54 lbs	524

LID STAYS

Picture	Item No.	Torque (in-lbs) or Door weight (lbs)	Page
	S-6, S-16		525
	S-20		525
	S-21		526

LID STAYS

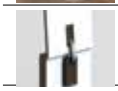
Picture	Item No.	Torque (in-lbs) or Door weight (lbs)	Page
	S-23		526
	S-24, S-25, S-27		526
	S-100T30	26.5 (in-lbs) / pc	527
	S-52T15	13.3 (in-lbs) / pc	527
	S-91, 92, 93	66~88 lbs	528
	HS	22~28.5 lbs	528
	L-100S	13.2 lbs	529
	L-140S	13.2 lbs	529
	L-S-BT		529
	L-SL140	33 lbs	530
	L-SL140-BT		530
	L-FS140	13.2 lbs	531
	L-FS140-BT		531
	L-200P	33 lbs	532
	L-200P-BT		532
	LK	5.5~9.4 lbs	533
	LB-215, 290	33 lbs / pc	533
	L	33 lbs / pc	534
	LB	44~66 lbs / pc	534
	LB-CV215A	33 lbs / pc	535
	LB-S	214~293 lbs / pc	536
	LBTS	154 lbs / pc	536
	L-FS350A	55 lbs / pc	537

Picture	Item No.	Torque (in-lbs) or Door weight (lbs)	Page
	U-3005	44 lbs / pc	537
	U-3031	15 lbs / pc	538
	LSP	66 lbs / pc	538

SPRING LOADED LID STAYS

Picture	Item No.	Torque (in-lbs)	Page
	S-YT	26~34 (in-lbs) / pc	539
	S-ATJ	78~104 (in-lbs) / pc	540
	S-ATJD	78~104 (in-lbs) / pc	540
	SATD		541
	S-ATJS	78~104 (in-lbs) / pc	541
	S-AT01, S-AT02	78~104 (in-lbs) / pc	541
	S-AT01S, S-AT02S	78~104 (in-lbs) / pc	541

DOOR CLOSERS / DOOR HOLDERS

Picture	Item No.	Torque (in-lbs), Load (lbs), or Door Weight (lbs)	Page
	LAD	70.1~141.9 (in-lbs) / pc	543
	LAD-ST	70.1~141.9 (in-lbs) / pc	544
	LAD-DP	-	545
	LAD-BKT	-	545
	LADH	Torque: 221~442 lbs	546
	YFN	Tensile: Max. 198~330 lbs Compression: Max 110~132 lbs	548
	YFNS YFNS-300W	Tensile: Max. 198~330 lbs Compression: Max 110~132 lbs	549
	YA-0812, 1216	-	551
	YA-2020, 2020W	Tensile: Max. 330 lbs Compression: Max 132 lbs	552



Lapcon = Soft & Smooth Movement

Lapcon series products provide the smoothest opening and closing system imaginable, equipped with Sugatsune's built-in patented dampening device. As a Lapcon opens and closes, it moves with quiet assurance. Lapcon products also provide safety to your application with its revolutionary damper. Doors and lids will come down slowly and softly which eliminates slamming doors or smashed fingers.



Downward-Opening Lids

Secretary Desks * Keyboard Trays * Media Cabinets

With catch in closed position:
- SDS-C100, SDS-C100TV
- NSDX-10, NSDX-10TV
- HDS-10

Without catch in closed position:
- SDS-100, SDS-100TV

Use with:
- SDH Drop Hinges (P.238, sold separately)
- ML Touch Latches (P.118~119, sold separately)

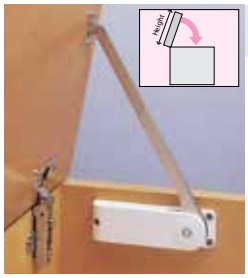


Upward-Opening Lids

Upper Kitchen & Bath Cabinets * Display Boxes

With catch in open position:
- SDS-C301
- NSDX-35
- HDS-30
- HDSN-30
- SLS-ELAN

Use with:
- 230 Concealed Hinges (P.298~303, sold separately)



Top-Opening Lids

Toy Boxes & Chests * Display Cases * Access Panels

With catch in open position:
- SDS-210, SDS-C301
- NSDX-20
- HDS-20

Use with:
- 230 Concealed Hinges (P.298~303, sold separately)
- LSD Piano Hinges (P.224, sold separately)

Material, 3/4" (19 mm) thick	Density (lbs./sq.ft)
Particle board	3.0
MDF (Medium Density Fiberboard)	3.5
Plywood (Lumbercore)	2.5
Solid Wood (Oak, Beech, Ash, Birch, Elm, Maple)	2.7
Solid Wood (Red Pine, Red Cedar)	1.9

Above values are approximate. Please weigh lid for exact weight.

Torque Rating (lbs·inch)

Door Height (inches) × 0.5 × Door Weight (lbs) = Applied Torque

Approximate lid weight can be calculated as follows

1. Calculate area of lid:
   e.g) 28" × 12" = 336 sq. in.
2. Convert to square ft. if needed:
   e.g) 336 sq. in. divide by 144 = 2.33 sq. ft
3. Select density factor from table on the left:
   e.g) 3.5 lbs./sq. ft for 3/4" thick door (MDF)
4. Determine door weight:
   e.g) 2.33 sq. ft × 3.5 lbs./sq. ft = **8.16 lbs.**

Door Weight Range Table (Per pair, in lbs.)

Door Height (inches)	SDS-C100TV		SDS-C100TVZ		SDS-C100		SDS-C301N		NSDX-TV		NSDX	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6	2.9	6.9	9.5	21.7	-	-	-	-	5.8	11.6	-	-
7	2.5	5.9	8.2	18.6	-	-	-	-	5.0	9.9	-	-
8	2.2	5.2	7.2	16.3	15.0	21.5	17.5	30.0	4.4	8.7	9.5	30.0
9	1.9	4.6	6.4	14.5	13.3	19.1	15.6	26.7	3.9	7.7	8.4	26.7
10	1.7	4.2	5.7	13.0	12.0	17.2	14.0	24.0	3.5	6.9	7.6	24.0
11	1.6	3.8	5.2	11.9	10.9	15.6	12.7	21.8	3.2	6.3	6.9	21.8
12	1.5	3.5	4.8	10.9	10.0	14.3	11.7	20.0	2.9	5.8	6.3	20.0
13	-	-	-	-	9.2	13.2	10.8	18.5	-	-	5.8	18.5
14	-	-	-	-	8.6	12.3	10.0	17.1	-	-	5.4	17.1
15	-	-	-	-	8.0	11.5	9.3	16.0	-	-	5.1	16.0
16	-	-	-	-	7.5	10.8	8.8	15.0	-	-	4.8	15.0
17	-	-	-	-	7.1	10.1	8.2	14.1	-	-	4.5	14.1
18	-	-	-	-	6.7	9.6	7.8	13.3	-	-	4.2	13.3
19	-	-	-	-	6.3	9.1	7.4	12.6	-	-	4.0	12.6
20	-	-	-	-	6.0	8.6	7.0	12.0	-	-	3.8	12.0
21	-	-	-	-	5.7	8.2	6.7	11.4	-	-	3.6	11.4
22	-	-	-	-	5.5	7.8	6.4	10.9	-	-	3.5	10.9
23	-	-	-	-	5.2	7.5	6.1	10.4	-	-	3.3	10.4
24	-	-	-	-	5.0	7.2	5.8	10.0	-	-	3.2	10.0
25	-	-	-	-	4.8	6.9	5.6	9.6	-	-	3.0	9.6
26	-	-	-	-	4.6	6.6	5.4	9.2	-	-	2.9	9.2

Door Weight Range Table (Per pair, in lbs.)

Door Height (inches)	HDS-K		HDS-M		HDS-H		HDSN-K		HDSN-M		HDSN-H		HDSN-S	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
8	30.3	43.3	43.3	54.0	54.0	65.0	30.5	38.8	39.0	47.5	47.8	56.3	56.5	65.0
9	26.9	38.4	38.4	48.0	48.0	57.8	27.1	34.4	34.7	42.2	42.4	50.0	50.2	57.8
10	24.2	34.6	34.6	43.2	43.2	52.0	24.4	31.0	31.2	38.0	38.2	45.0	45.2	52.0
11	22.0	31.5	31.5	39.3	39.3	47.3	22.2	28.2	28.4	34.5	34.7	40.9	41.1	47.3
12	20.2	28.8	28.8	36.0	36.0	43.3	20.3	25.8	26.0	31.7	31.8	37.5	37.7	43.3
13	18.6	26.6	26.6	33.2	33.2	40.0	18.8	23.8	24.0	29.2	29.4	34.6	34.8	40.0
14	17.3	24.7	24.7	30.9	30.9	37.1	17.4	22.1	22.3	27.1	27.3	32.1	32.3	37.1
15	16.1	23.1	23.1	28.8	28.8	34.7	16.3	20.7	20.8	25.3	25.5	30.0	30.1	34.7
16	15.1	21.6	21.6	27.0	27.0	32.5	15.3	19.4	19.5	23.8	23.9	28.1	28.3	32.5
17	14.2	20.4	20.4	25.4	25.4	30.6	14.4	18.2	18.4	22.4	22.5	26.5	26.6	30.6
18	13.4	19.2	19.2	24.0	24.0	28.9	13.6	17.2	17.3	21.1	21.2	25.0	25.1	28.9
19	12.7	18.2	18.2	22.7	22.7	27.4	12.8	16.3	16.4	20.0	20.1	23.7	23.8	27.4
20	12.1	17.3	17.3	21.6	21.6	26.0	12.2	15.5	15.6	19.0	19.1	22.5	22.6	26.0
21	11.5	16.5	16.5	20.6	20.6	24.8	11.6	14.8	14.9	18.1	18.2	21.4	21.5	24.8
22	11.0	15.7	15.7	19.6	19.6	23.6	11.1	14.1	14.2	17.3	17.4	20.5	20.5	23.6
23	10.5	15.0	15.0	18.8	18.8	22.6	10.6	13.5	13.6	16.5	16.6	19.6	19.7	22.6
24	10.1	14.4	14.4	18.0	18.0	21.7	10.2	12.9	13.0	15.8	15.9	18.8	18.8	21.7
25	9.7	13.8	13.8	17.3	17.3	20.8	9.8	12.4	12.5	15.2	15.3	18.0	18.1	20.8
26	9.3	13.3	13.3	16.6	16.6	20.0	9.4	11.9	12.0	14.6	14.7	17.3	17.4	20.0
27	9.0	12.8	12.8	16.0	16.0	19.3	9.0	11.5	11.6	14.1	14.1	16.7	16.7	19.3
28	8.6	12.4	12.4	15.4	15.4	18.6	8.7	11.1	11.1	13.6	13.6	16.1	16.1	18.6

Door Height (inches)	SLS-ELAN M		SLS-ELAN H		EZS-ELAN LL		EZS-ELAN LM		EZS-ELAN MM		EZS-ELAN MH		EZS-ELAN HH	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
12	16.0	21.7	21.7	29.0	-	-	-	-	-	-	-	-	-	-
13	14.8	20.0	20.0	26.8	-	-	-	-	-	-	-	-	-	-
14	13.7	18.6	18.6	24.9	-	-	-	-	-	-	-	-	-	-
15	12.8	17.3	17.3	23.2	-	-	-	-	-	-	-	-	-	-
16	12.0	16.3	16.3	21.8	-	-	-	-	-	-	-	-	-	-
17	11.3	15.3	15.3	20.5	-	-	-	-	-	-	-	-	-	-
18	10.7	14.4	14.4	19.3	-	-	-	-	-	-	-	-	-	-
19	10.1	13.7	13.7	18.3	-	-	-	-	-	-	-	-	-	-
20	9.6	13.0	13.0	17.4	-	-	-	-	-	-	-	-	-	-
21	9.1	12.4	12.4	16.6	10.0	14.0	13.8	18.3	18.1	22.6	21.6	25.3	25.1	30.8
22	8.7	11.8	11.8	15.8	9.7	13.5	13.3	17.6	17.4	21.7	20.7	24.2	24.1	29.5
23	8.3	11.3	11.3	15.1	9.4	13.0	12.8	16.9	16.7	20.8	19.9	23.3	23.1	28.3
24	8.0	10.8	10.8	14.5	9.1	12.5	12.4	16.3	16.1	20.1	19.2	22.4	22.2	27.2
25	7.7	10.4	10.4	13.9	8.8	12.1	12.0	15.7	15.5	19.3	18.5	21.6	21.4	26.2
26	7.4	10.0	10.0	13.4	8.5	11.7	11.6	15.2	15.0	18.7	17.9	20.9	20.7	25.3
27	7.1	9.6	9.6	12.9	8.3	11.4	11.2	14.7	14.6	18.1	17.3	20.2	20.0	24.4
28	6.9	9.3	9.3	12.4	8.1	11.0	10.9	14.3	14.1	17.5	16.7	19.5	19.4	23.6
29	6.6	9.0	9.0	12.0	7.9	10.7	10.6	13.8	13.7	17.0	16.2	18.9	18.8	22.9
30	6.4	8.7	8.7	11.6	7.7	10.5	10.3	13.5	13.3	16.5	15.8	18.4	18.2	22.2
31	6.2	8.4	8.4	11.2	-	-	-	-	-	-	-	-	-	-
32	6.0	8.1	8.1	10.9	-	-	-	-	-	-	-	-	-	-

*Note: -Door weight range is calculated based on center of gravity point at the middle of door.
-Door weight range for HDSN is for opening angle 90˚.

LIFT-ASSIST LID STAY with soft close (top opening) ARN-2

- Smooth door movement. It is specially designed for use with the OLYMPIA concealed hinge (360-D26-19).
- The lift-assist function allows for light opening of doors.
- The free-stop function enables doors to hold in position (30°–Max.).
- The soft-close function makes doors close gently (0°–30° degrees).
- Integrated design combines a concealed hinge and lid stay.
- Closing speed of doors is adjustable.
- Naturally creates an overlay look.

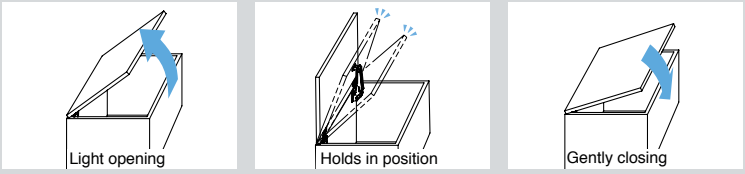


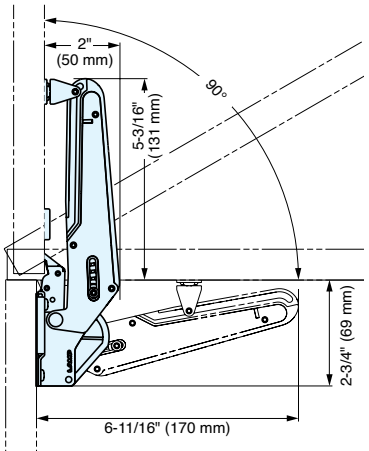
Components for a single door		
	Aileron	1
	Mounting plate for Aileron	1
	Olympia Concealed Hinge	2
	Mounting plate for Olympia	1
 Olympia 8 / Aileron 6 / Aileron 2	Screws	16

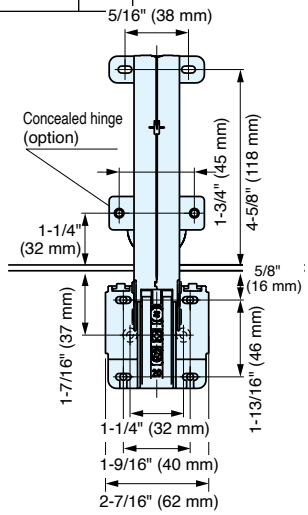
Lift-assist
Allows for light opening of doors

Free stop
Enables doors to hold in position (30°–Max.).

Soft close
Built-in damper makes doors close slowly.







THE OLYMPIA HINGE

With 5-level damper function, part of the Aileron soft-opening system.



5-speed adjustable soft close.
The first Sugatsune concealed hinge ever built with Lapcon technology.

Lapcon®

Item No.	Color	Torque	Weight (g)	Box (pcs)	Carton (pcs)
ARN-2-M-S	Grey	35.4~53.1 lbs·in (40.8~61.2 kg·cm)	703	1	10
ARN-2-M-BL-S	Black				
ARN-2-H-S	Grey	53.1~70.8 lbs·in (61.2~81.6 kg·cm)			
ARN-2-H-BL-S	Black				

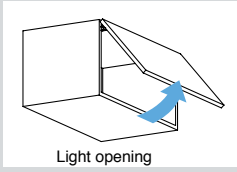
Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Grey, Black

LIFT-ASSIST LID STAY with soft close (upward opening) ARN-3

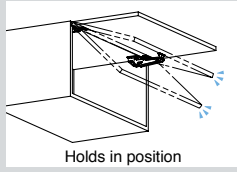


- Smooth door movement. It is specially designed for use with the OLYMPIA concealed hinge (360-D26-19).
- The lift-assist function allows for light opening of doors.
- The free-stop function enables doors to hold in position (30°–Max.).
- The soft-close function makes doors close gently (0°–30° degrees).
- Integrated design combines a concealed hinge and lid stay.
- Closing speed of doors is adjustable.
- Naturally creates an overlay look.

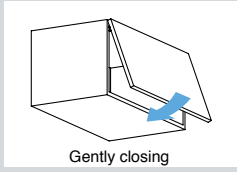
Lift-assist
Allows for light opening of doors



Free stop
Enables doors to hold in position (30°–Max.).

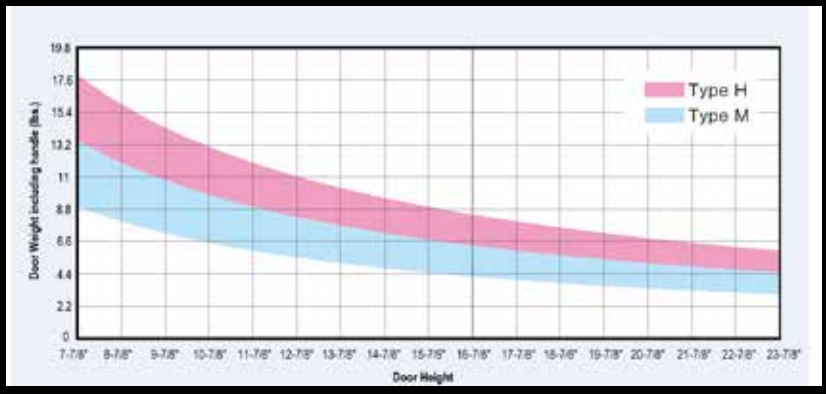


Soft close
Built-in damper makes doors close slowly.



Components for a single door

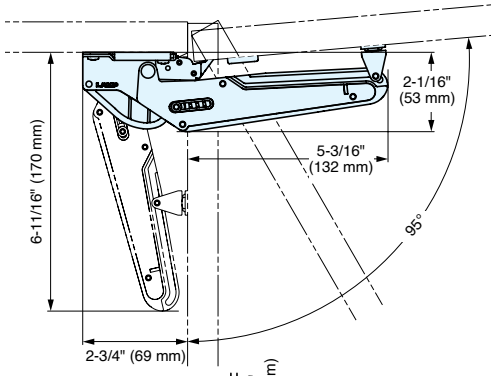
	Aileron	1
	Mounting plate for Aileron	1
	Olympia Concealed Hinge	2
	Mounting plate for Olympia	1
 Olympia 8 / Aileron 6 / Aileron 2	Screws	16

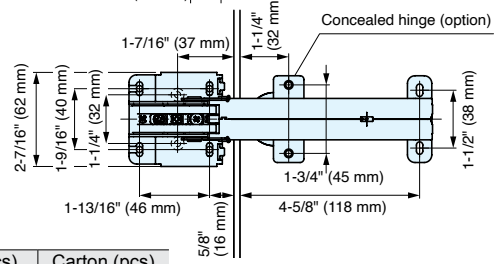


Refer to the graph above as a guide for model selection. For use with doors outside of the scope of this graph, use the calculation below. Door weight must include all attached accessories.

Torque (lbs • inch) =
Door height (inches) × 0.5 × weight (lbs).

Torque Range (lbs·in)	Type	Number of AILERON
35.4~53.1	M	1 pc
53.1~70.8	H	





Item No.	Color	Torque	Weight (g)	Box (pcs)	Carton (pcs)
ARN-3-M-S	Grey	35.4~53.1 lbs·in (40.8~61.2 kg·cm)	703	1	10
ARN-3-M-BL-S	Black				
ARN-3-H-S	Grey	53.1~70.8 lbs·in (61.2~81.6 kg·cm)			
ARN-3-H-BL-S	Black				

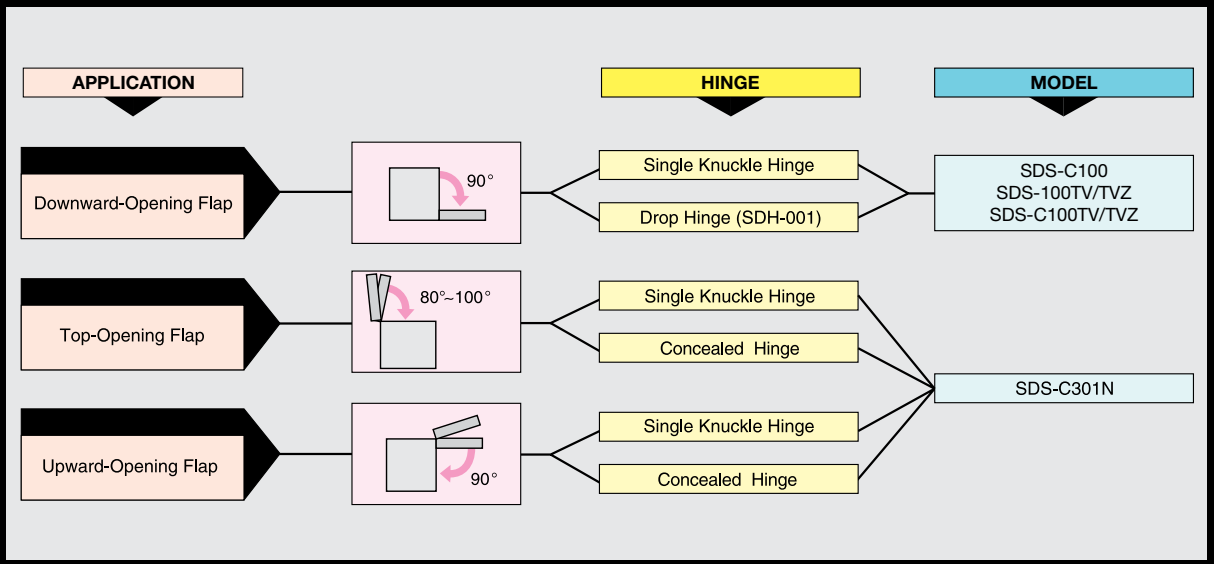
Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Grey, Black

SDS SOFT-DOWN STAY



- 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).



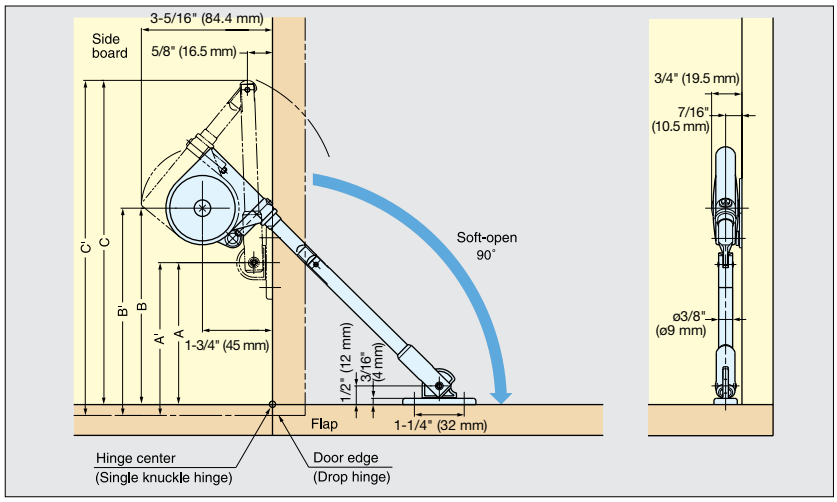
SOFT-DOWN STAY

SDS-C100



- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges (SDH-001, SDH-P, P.238).
- SDS-C100 (with catch) is designed to hold door in closed position.
- SDS-100 does not have a catch feature. Designed to be used with a magnetic catch or touch latch.
- Non-handed.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  Per Piece: 30~43 lbs·inch (35~50 kg·cm)
  Per Pair: 60~86 lbs·inch (70~100 kg·cm)
- Short-arm version SDS-100TV (or C100TV) for smaller door height available.





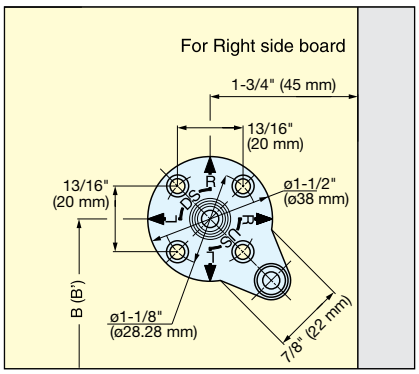


Mounting Plate SDS-A
(Included)



Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)





Hinge Type	A	A´	B	B´	C	C´
Single Knuckle Hinge	3-15/16" (100 mm)	-	5-5/16" (135 mm)	-	8-9/16" (218 mm)	-
Drop Hinge*	-	4-3/16" (107 mm)	-	5-9/16" (142 mm)	-	8-7/8" (225 mm)

*Overlay: 5/8" (16 mm)

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

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

SOFT-DOWN STAY

RoHS compliant | 3.5×14 STEEL | Lapcon

SDS-200, SDS-210



Right side installation shown. (SDS-200-W)



Right side installation shown. (SDS-210-G)


White (W)


Grey (G)


Umber (U)


Mounting plate SDS-A for SDS-210

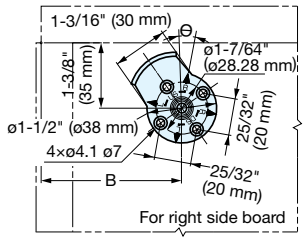

Mounting plate SDS-B for SDS-200

- For top-opening doors.
- Non-handed: Can be installed on left or right side.
- Designed to hold the door in fully opened position.
- Two types are available, depending on opening angle and type of hinge (sold separately).
  - SDS-200: Opening angle 70°, piano/butt hinge
  - SDS-210 (wide angle opening): Opening angle 105°, piano/butt hinge or concealed hinge

Opening Direction	Item Name	Description	Non-handed	Torque Per Piece
 Top-opening	SDS-200	With Catch	Yes	30.3~43.3 N·m/pc (35~50 kgf· cm)
	SDS-210	–		

Installation for Mounting Plate

SDS-200



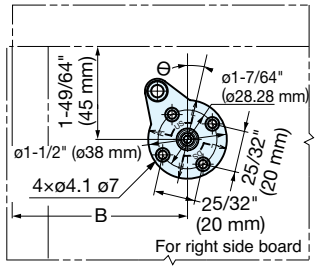
Full Overlay

Item No.	Hinge Type	Opening Angle	B	Θ
SDS-200	Single Knuckle Hinge	70°	2-61/64" (75 mm)	0°
SDS-210	Single Knuckle Hinge	105°	3-3/16" (81 mm)	5°
	Concealed Hinge 360-26/19T		3-27/64" (87 mm)	12°

For right side board, install with the "→" mark of R at US side upwards.
For left side board, install with the "→" mark of L at US side upwards.

Installation for Mounting Plate

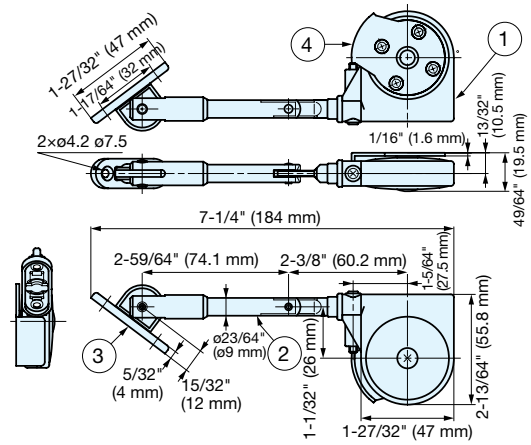
SDS-210



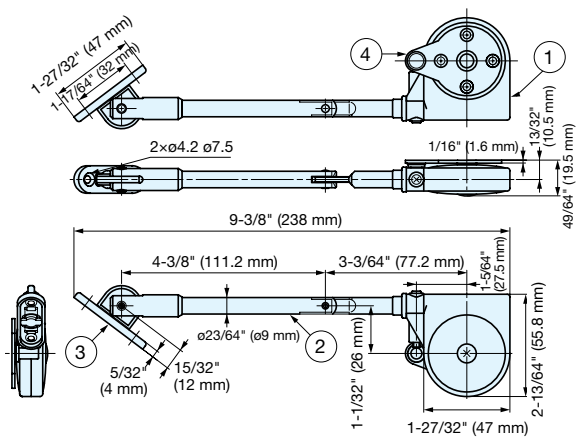
Inset (Door Thickness 20mm)

Item No.	Hinge Type	Opening Angle	B	Θ
SDS-200	Single Knuckle Hinge	70°	2-1/2" (63.5 mm)	10°
SDS-210	Single Knuckle Hinge	105°	2-3/4" (70 mm)	15°

For right side board, install with the "→" mark of R at US side upwards.
For left side board, install with the "→" mark of L at US side upwards.



SDS-200



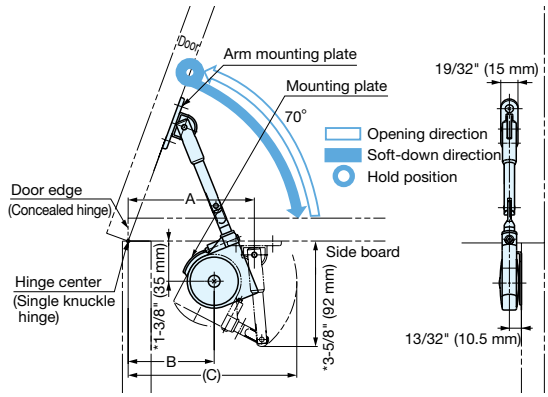
SDS-210

No.	Part Name	Material	Finish/Color
①	Body	ABS	White, Grey, Umber
②	Arm	Steel	Nickel
③	Arm Mounting Plate		
④	Mounting Plate		

Installation SDS-200

Right side installation for top-opening 70°. Left side installation is symmetrical.

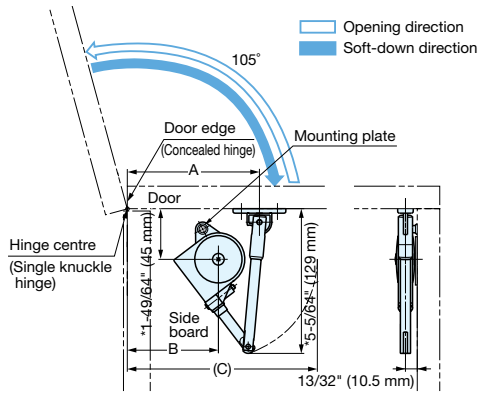
Comes down slowly and softly in closing direction. Installation with piano/butt hinge or concealed hinge shown below.



Installation SDS-210

Right side installation for top-opening 105°. Left side installation is symmetrical.

Comes down slowly and softly in closing direction. Installation with piano/butt hinge or concealed hinge shown below.



Installation dimensions vary depending on hinge type. Reference point of installation dimension (A, B, C) : hinge center for piano/butt hinge, while door edge for concealed hinge.

Reference point of (*) marked dimensions is the back side of door.

Full Overlay

Item No.	Hinge Type	Opening Angle	A	B	C
SDS-200	Single Knuckle Hinge	70°	4-21/64" (110 mm)	2-61/64" (75 mm)	5-25/32" (147 mm)
SDS-210	Single Knuckle Hinge	105°	4-5/8" (117.5 mm)	3-3/16" (81 mm)	6-21/32" (169 mm)
	Concealed Hinge 360-26/19T		4-55/64" (123.5 mm)	3-27/64" (87 mm)	6-57/64" (175 mm)

Inset (Door Thickness 20mm)

Item No.	Hinge Type	Opening Angle	A	B	C
SDS-200	Single Knuckle Hinge	70°	3-7/8" (98.5 mm)	2-1/2" (63.5 mm)	5-5/16" (135 mm)
SDS-210	Single Knuckle Hinge	105°	4-17/64" (108.3 mm)	2-3/4" (70 mm)	6-3/16" (157.3 mm)

Body

Item No.	Material	Color	Torque per piece	Weight (g)	Box (pcs)	Carton (pcs)
SDS-200-W	Steel	Nickel/Grey	30.3~43.3 lbs·in (35~50 kgf·cm)	153	20	100
SDS-200-G		Nickel/Umber			20	100
SDS-200-U		Nickel/White			20	100
SDS-210-W		Nickel/Grey		159	20	100
SDS-210-G		Nickel/Umber			20	100
SDS-210-U		Nickel/White			20	100

SDS Face Plate and Spacer for Glass Door (Sold Separately)

Item No.	Material	Color	Weight (g)	Box (pcs)	Carton (pcs)
SDS-50G-CR	Zinc Alloy	Chrome/Black	25	50	200
SDS-50G-BL		Black Enamel Finish/Black		50	200

SOFT-DOWN STAY

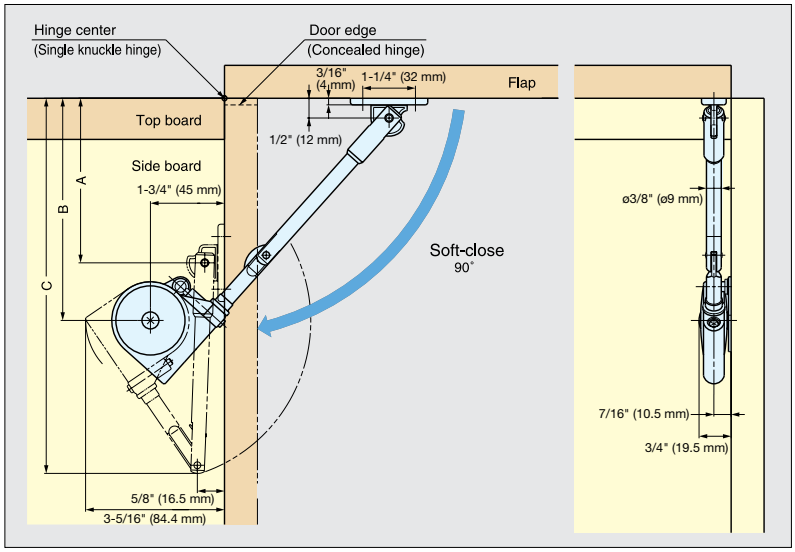
RoHS Compliant | 3.5×14 STEEL | Lapcon

SDS-C301N



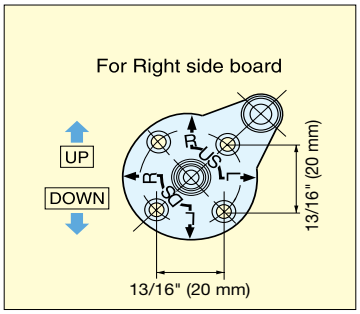
- For UPWARD-OPENING FLAP DOOR used with concealed, piano or butt hinges.
- SDS-C301N is designed to hold door in closed and opened position.
- Non-handed.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  Per Piece: 35~60 lbs·in (40~70 kg·cm)
  Per Pair: 70~120 lbs·in (80~140 kg·cm)

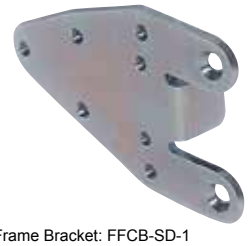






Mounting Plate SDS-A
(Included)





Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)



Hinge Type	Coverage	A	B	C
Concealed Hinge	Full overlay (3/4")	4-1/4" (108 mm)	5-5/8" (143 mm)	9-1/8" (232 mm)
Single Knuckle Hinge	Overlay	3-15/16" (100 mm)	5-5/16" (135 mm)	8-3/4" (223 mm)
	Inset	3-13/16" (97 mm)	5-3/16" (132 mm)	8-11/16" (220 mm)

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

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

SOFT-DOWN STAY

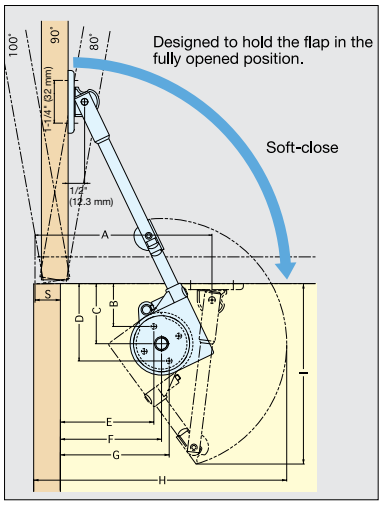
RoHS compliant | 3.5×14 STEEL | Lapcon

SDS-C301N

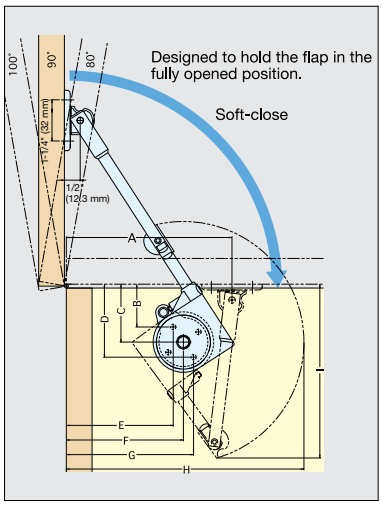


- For TOP-OPENING FLAP DOOR used with concealed, piano or butt hinges.
- Designed to hold door in fully opened position.
- Non-handed.
- Available in black or white.

With Concealed Hinge



With Single Knuckle Hinge



Concealed Hinge

Opening angle	A	B	C	D	E	F	G	H	I
80°	5-9/16" (141)	1-1/4" (31.9)	1-3/4" (45)	2-5/16" (58.1)	3-7/8" (98.2)-S	4-1/16" (103.5)-S	4-1/4" (108.8)-S	7-3/4" (197.5)	5-5/16" (134.8)
90°	5-1/4" (132.5)	1-1/4" (32.3)		2-1/4" (57.7)	3-1/2" (88.7)-S	3-3/4" (95)-S	4" (101.3)-S	7-7/16" (189)	
100°	5" (126.5)	1-5/16" (32.9)		2-1/4" (57.1)	3-3/16" (81.2)-S	3-1/2" (88.5)-S	3-3/4" (95.8)-S	7-3/16" (182.5)	

() units in mm

Single Knuckle Hinge/Overlay Type

S=Overlay Coverage

Opening angle	A	B	C	D	E	F	G	H	I
80°	5-7/16" (138.5)	1-1/4" (32.6)	1-3/4" (45)	2-1/4" (57.4)	3-11/16" (94.1)	4" (101)	4-1/4" (107.9)	7-11/16" (195)	5-5/16" (134.8)
90°	5-1/16" (128.5)	1-5/16" (33.2)		2-1/4" (56.8)	3-1/4" (83.1)	3-9/16" (91)	3-7/8" (98.9)	7-1/4" (185)	
100°	4-3/4" (121.5)	1-5/16" (33.9)		2-3/16" (56.1)	2-15/16" (75.2)	3-5/16" (84)	3-5/8" (92.8)	7" (178)	

() units in mm

Single Knuckle Hinge/Inset Type

Opening angle	A	B	C	D	E	F	G	H	I
80°	5-1/16" (129)	1-1/4" (31.7)	1-3/4" (45)	2-5/16" (58.3)	3-7/16" (86.7)	3-5/8" (91.5)	3-13/16" (96.3)	7-5/16" (185.5)	5-5/16" (134.8)
90°	4-11/16" (118.5)	1-1/4" (32)		2-1/4" (58)	2-15/16" (75.3)	3-3/16" (81)	3-7/16' (86.7)	6-7/8" (175)	
100°	4-3/8" (111)	1-1/4" (32.5)		2-1/4" (57.5)	2-5/8" (67)	2-7/8" (73.5)	3-1/80" (80)	6-9/16" (167.5)	

() units in mm

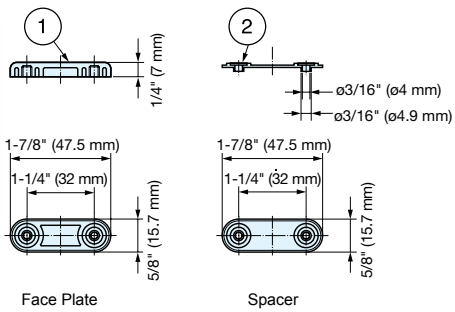
Material	Finish/Color
Steel, Zinc Alloy	Nickel
Plastic	Black, White

SDS FACE PLATE

M4×14 STEEL

SDS-50G





- Cover plate for glass door applications.
- To be used with SDS HDS, or NSDX soft-down stays.
- Screws and spacer included.

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

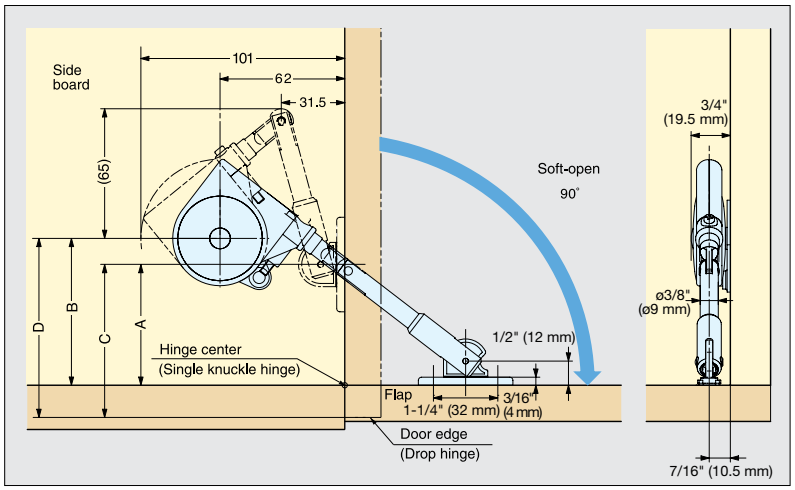
Item No.	Weight (g)	Box	Carton
SDS-50G/BLK	25	100	400
SDS-50G/CR			

SOFT-DOWN STAY (SHORT-ARM) SDS-100-TV/TVZ



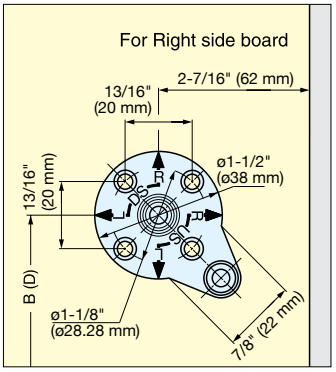
- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges (SDH-001, SDH-P, P.238).
- Short arm type designed for short door applications.
- SDS-C100TV has a catch to hold the lid in closed position.
- SDS-100TV does not have catch feature. Designed to be used with magnetic catch or touch latch.
- Non-handed.
- Torque Calculation :
  Torque = Door Height × 0.5 × Door Weight

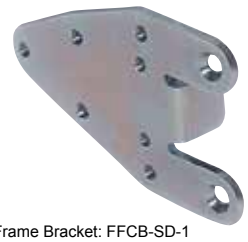






Mounting Plate SDS-A
(Included)





Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)



Hinge Type	A	B	C	D
Single Knuckle Hinge	2-3/8" (60 mm)	2-7/8" (73 mm)	-	-
Drop Hinge	-	-	1-15/16" (49 mm)+S	2-7/16" (62 mm)+S

S=Overlay Coverage in case of drop hinge

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

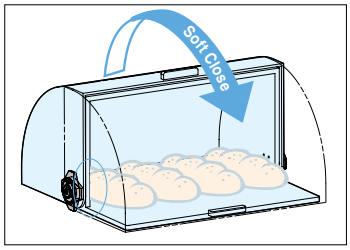
Item No.	Type	Color	Torque per piece	Torque per pair	Box (pcs)	Carton (pcs)
SDS-100W-TV	W/O Catch	White	4.3~10.4 lbs·in (5 ~12 kgf·cm)	8.6~20.8 lbs·in (10~24 kgf·cm)	20	100
SDS-100B-TV		Black				
SDS-C100W-TV	With Catch	White				
SDS-C100B-TV		Black				
SDS-100W-TVZ	W/O Catch	White	14.3~32.6 lbs·in (16.5~37.6 kgf·cm)	28.6~65.2 lbs·in (33~75.2 kgf·cm)		
SDS-100B-TVZ		Black				
SDS-C100W-TVZ	With Catch	White				
SDS-C100B-TVZ		Black				

DISK DAMPER

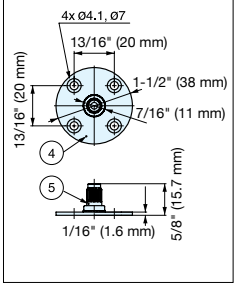
RoHS compliant Lapcon **UDD**

- Disc-shaped damper gently closes lid without slamming shut.
- Narrow profile for unobtrusive installation.
- Suitable for food service environments.
- Successfully passed 30,000 open/close private cycle test.
- Operating temperature: 5~35 ˚C (41~95˚F)
- Spacer and installation screws are not included, and vary with application. Please contact customer service for more information.

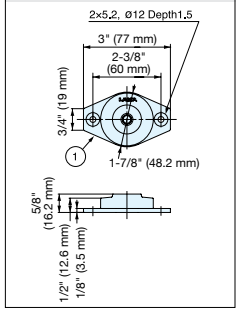




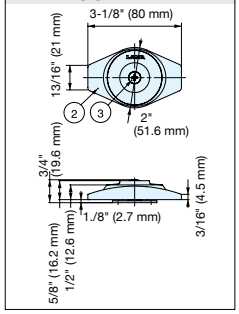
MOUNTING PLATE



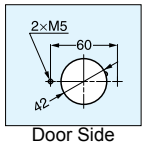
DAMPER



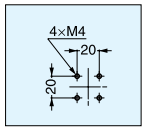
ASSEMBLY



Cut-Out Dimension

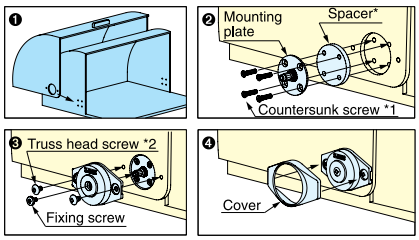


Door Side



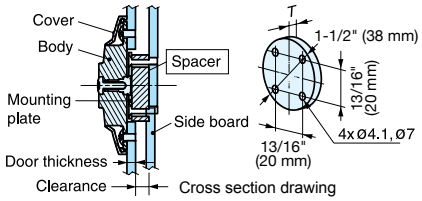
Fixed Side

How to Install



*1, *2 screws and Spacer are not included.

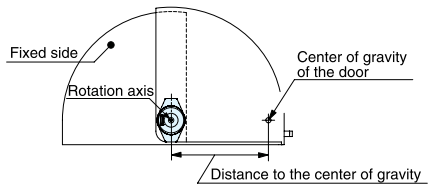
Spacer



Cross section drawing

Spacer thickness (T) = Clearance mm + Door thickness mm - 2.7mm

Damper Selection



*Torque = Distance to the center of gravity x 1/2 x Door weight

Item No.	Handing	Torque	Weight (g)	Box Qty (pcs)
UDD-S-L	Left	4.4~8.9 lbs·in (5.1~10.2 kgf·cm)	90	20
UDD-S-R	Right			
UDD-M-L	Left	8.9~17.7 lbs·in (10.2~20.4 kgf·cm)		
UDD-M-R	Right			
UDD-H-L	Left	17.7~26.6 lbs·in (20.4~30.6 kgf·cm)		
UDD-H-R	Right			

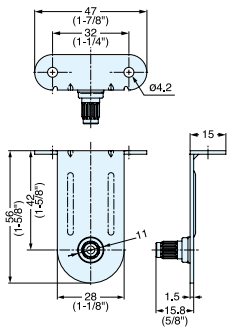
No.	Part Name	Material	Finish
①	Main Body	ABS Plastic	Light Grey
②	Cover		
③	Screws	Steel	Nickel
④	Mounting Plate		
⑤	Axis		Zinc

UDD DISK DAMPER BRACKET

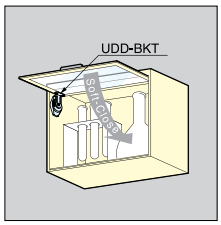
RoHS compliant STAINLESS 304 STEEL **UDD-BKT**

- Bracket for disk damper UDD for upward-opening door.
- Catch is needed for holding door in opened position (not included).
- Use SDS-50G face plate for glass/acrylic door.
- Stop required to prevent over rotation (not included).

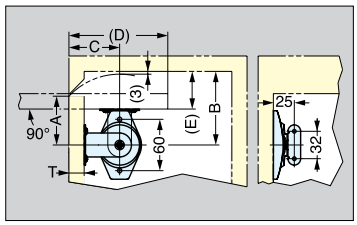


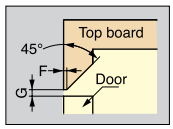


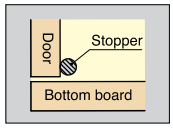
Application Example



Cut-Out Dimension







Item No.	Material	Finish
UDD-BKT	304 Stainless Steel	Plain

T: Door Thickness	A	B	C	D	E	F	G
3/16" (5 mm)	1-13/16" (46 mm)	2-3/4" (70 mm)	1-15/16" (49 mm)	3-3/4" (95 mm)	1-1/32" (26 mm)	1/32" (1 mm)	1/8" (3 mm)
19/32" (15 mm)	2-1/8" (54 mm)	3-1/4" (82 mm)	2-1/4" (57 mm)	4-3/8" (111 mm)	1-9/16" (40 mm)	1/16" (2 mm)	5/32" (4 mm)
23/32" (18 mm)	2-1/4" (57 mm)	3-3/8" (86 mm)	2-3/8" (60 mm)	4-5/8" (117 mm)	1-3/4" (44 mm)	1/8" (3 mm)	3/16" (5 mm)

COMPACT SOFT-DOWN STAY

RoHS compliant | STEEL | Lapcon

CSD-10-TV



White

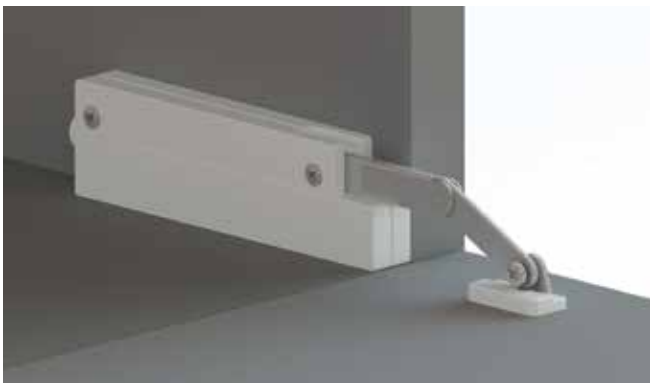


Black

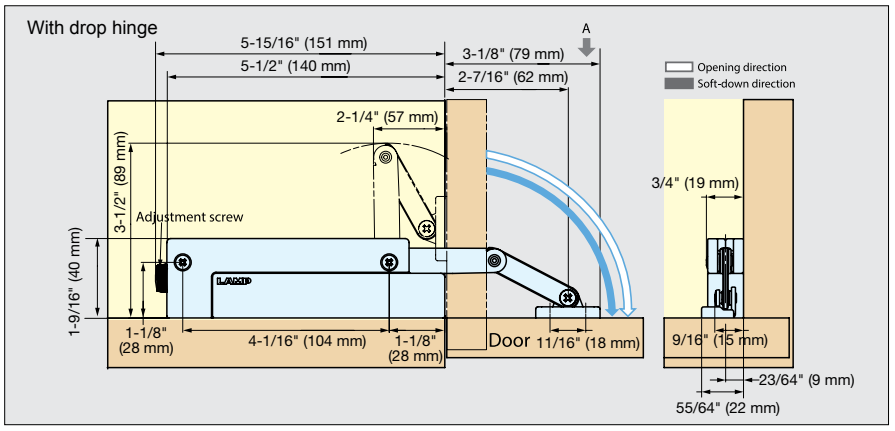


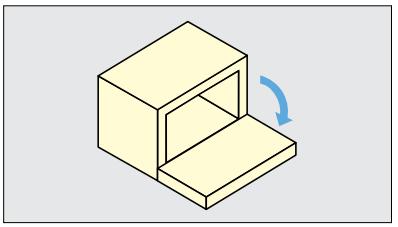


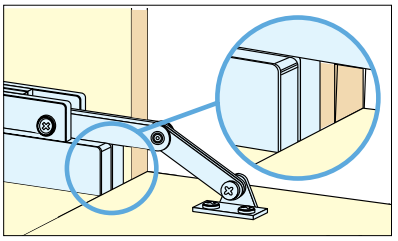
- Soft-down stay for (DOWNWARD-OPENING FLAP DOORS) used with piano, butt, or drop hinge (SDH-001, SDH-P, P.238).
- Easy to install by aligning the body to the edge of a cabinet.
- Designed for smaller cabinet doors in media centers or TV consoles.
- Opening speed adjustable. The adjustment screw located on back for clean appearance.
- Easy to close.
- Holds lid in closed position.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  L-Type (Light Duty): 8.8~17.7 lbs·in (10.2~20.4 kg·cm)
  M-Type (Medium Duty): 17.7~26.6 lbs·in (20.4~30.6 kg·cm)
  H-Type (Heavy Duty): 26.6~35.4 lbs·in (30.6~40.8 kg·cm)

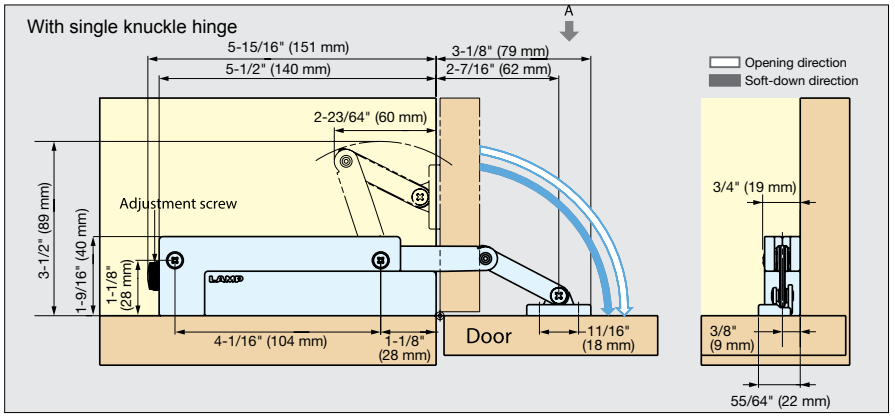


■Installation

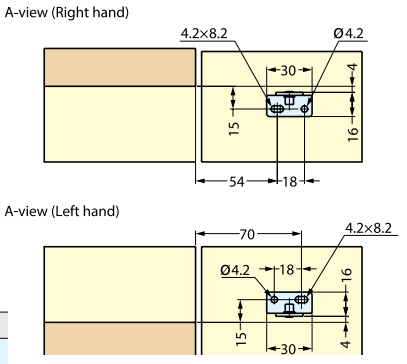








■Installation of Mounting Plate



Item No.	Type	Torque	Weight (g)	Box (pcs)	Carton (pcs)
CSD-10-TV-L-WT	Light Duty	8.8~17.7 lbs·in (10.2~20.4 kg·cm)	125	10	100
CSD-10-TV-L-BL					
CSD-10-TV-M-WT	Medium Duty	17.7~26.6 lbs·in (20.4~30.6 kg·cm)	130		
CSD-10-TV-M-BL					
CSD-10-TV-H-WT	Heavy Duty	26.6~35.4 lbs·in (30.6~40.8 kg·cm)			
CSD-10-TV-H-BL					

Material	Finish/Color
Steel	Nickel
Plastic	White/Black

Soft-Down Lid Stay

CSD-10TV



Smooth, soft-closing movement for downward opening flap doors. Available for light, medium or heavyweight cabinet doors.

*Used with piano, butt, or drop hinge (P.238).



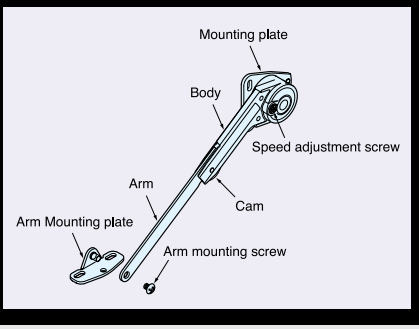
NSDX

ADJUSTABLE SOFT-DOWN STAY



- Keeps flap/lid from slamming down.
- Recognized by LGA for 30,000 cycles.
- Soft-down speed is adjustable.
- Opening angle is adjustable by changing mounting position.
- Handed

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

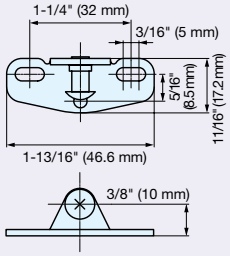


APPLICATION		MOUNTING SIDE	MODEL
Downward-Opening Flap	90°	Right	NSDX-10RK
			NSDX-10RK/TV
		Left	NSDX-10LK
			NSDX-10LK/TV
Top-Opening Flap	70° ~ 105°	Right	NSDX-20RK
		Left	NSDX-20LK
Upward-Opening Flap	80° ~ 100°	Right	NSDX-35RK
		Left	NSDX-35LK

Arm Mounting Plates
All NSDX series lid stays include the standard model for wooden doors (NSDX-SZ).
Optional models available for aluminum frame doors (NSDX-AZ) and glass doors (NSDX-GZ).

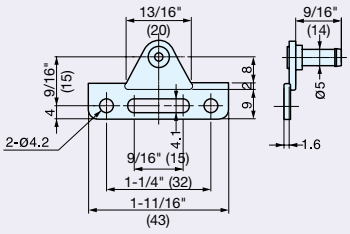
NSDX-SZ
(Included)

Mounting Plate for wooden door, screw-on type.



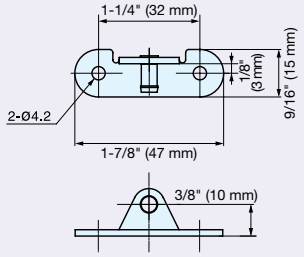
NSDX-AZ
(Sold separately)

Mounting Plate for aluminum frame door, clip-on type.



NSDX-GZ
(Sold separately)

Mounting Plate for glass door, clip-on type.
Face Plate SDS-50G available as option.



*Clip-on type dose not screw on, simply insert the pin on mounting plate to the Arm when installing.

ADJUSTABLE SOFT-DOWN STAY

RoHS Compliant | 3.5×15 STEEL | Lapcon

NSDX-10

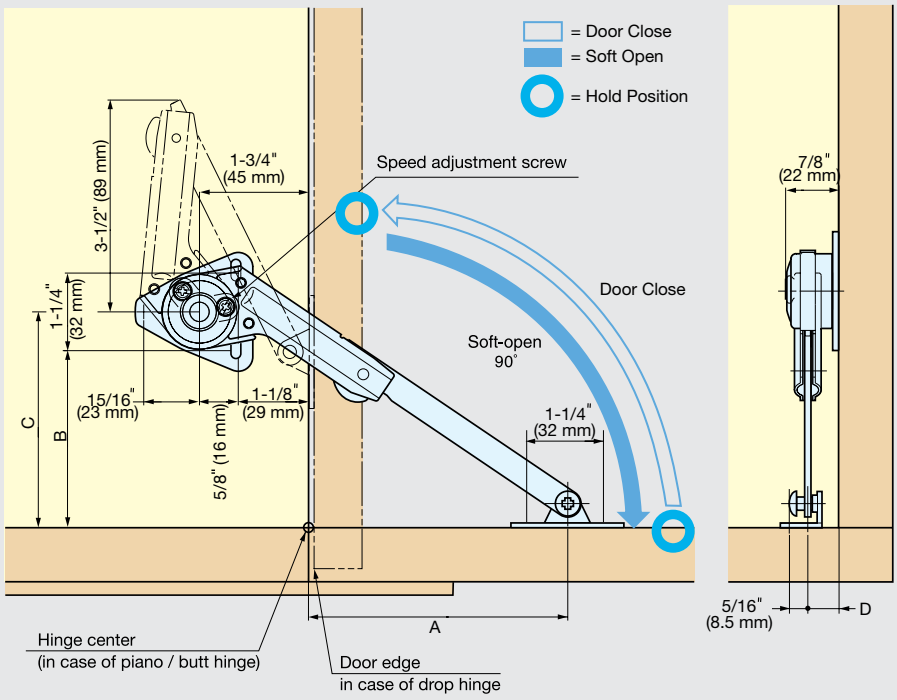


- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop Hinges (SDH-001, SDH-P, P.238).
- NSDX-10 is designed to hold door in closed position.
- Speed adjustment screw located on front for easy adjustment.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  Per Piece: 19~60 lbs·in (20~70 kg·cm)
  Per Pair: 38~120 lbs·in (40~140 kg·cm)



Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)



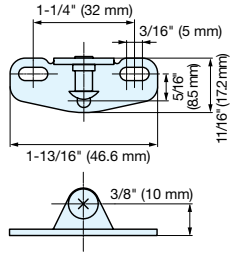


This drawing shows NSDX-10RK (Right-hand side mounting).
NSDX-10LK (left-hand) is symmetrical.

NSDX-SZ

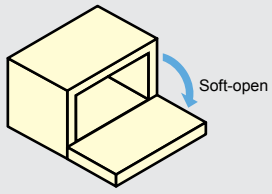
(Included)

Mounting Plate for wooden door, screw-on type.



Arm Mounting Plate

90˚ Opening



Hinge Type	A	B	C	D
☆ Drop Hinge (SDH-001)	3-13/16" (97 mm)	3-9/16" (91 mm)	4-3/16" (107 mm)	7/16" (11 mm)
Piano/Butt Hinge	3-9/16" (90 mm)	3-7/8" (99 mm)	4-1/2" (115 mm)	

☆ In case overlay 16 mm

Item No.		Weight (g)	Box (pcs)	Carton (pcs)
NSDX-10RK	Right	181	20	80
NSDX-10LK	Left			

Material	Finish
Zinc Alloy	Nickel
Steel	

ADJUSTABLE SOFT-DOWN STAY

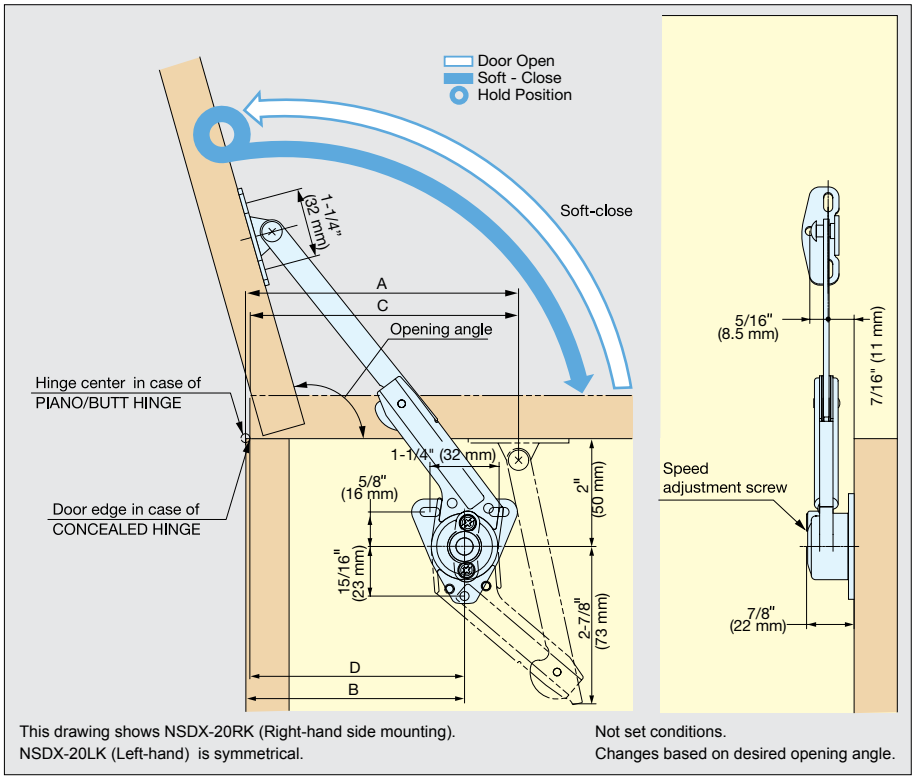
RoHS compliant | 3.5×15 STEEL | Lapcon

NSDX-20



- For TOP-OPENING FLAP DOOR used with piano, butt or concealed hinges.
- Opening angle 70° or 105°.
- NSDX-20 is designed to hold door in fully opened position.
- Speed adjustment screw located on front for easy adjustment.
- Torque Calculation :
  Torque = Door Height × 0.5 × Door Weight
  Per Piece : 19~60 lbs·inch (20~70 kg·cm)
  Per Pair : 38~120 lbs·inch (40~140 kg·cm)





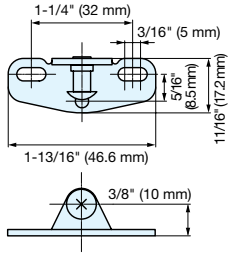
This drawing shows NSDX-20RK (Right-hand side mounting).
NSDX-20LK (Left-hand) is symmetrical.

Not set conditions.
Changes based on desired opening angle.

NSDX-SZ

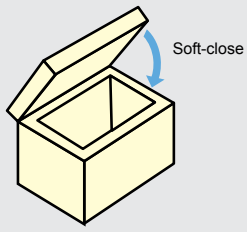
(Included)

Mounting Plate for wooden door, screw-on type.



Arm Mounting Plate

70˚or 105˚ Opening



Material	Finish
Zinc Alloy	Nickel
Steel	

Item No.		Weight (g)	Box (pcs)	Carton (pcs)
NSDX-20RK	Right	181	20	80
NSDX-20LK	Left			

Opening Angle	Hinge Type	A	B	C	D	E
70°	Concealed Hinge	-	-	4-15/16" (126 mm)	4" (101 mm)	7/16" (11 mm)
	Piano/Butt Hinge	4-15/16" (125 mm)	3-15/16" (100 mm)	-	-	
105°	Concealed Hinge	-	-	4-1/16" (103 mm)	3-1/16" (78 mm)	
	Piano/Butt Hinge	3-13/16" (97 mm)	2-13/16" (72 mm)	-	-	

ADJUSTABLE SOFT-DOWN STAY

RoHS compliant | 3.5×15 STEEL | Lapcon

NSDX-35

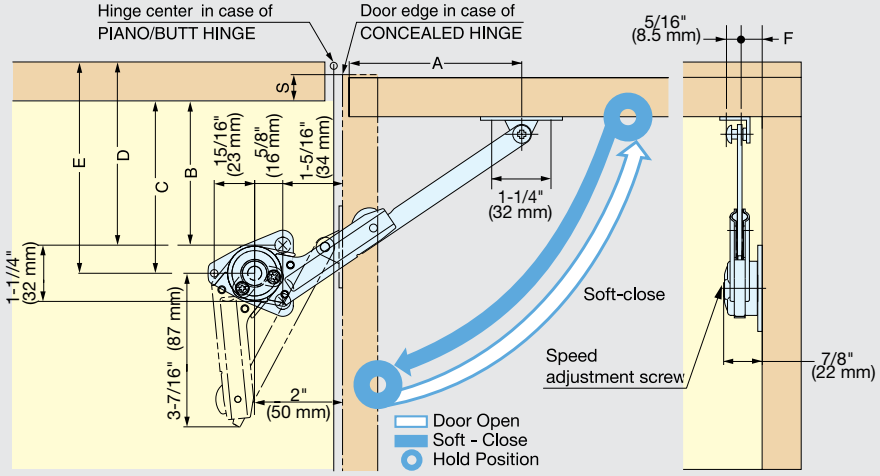


- For UPWARD-OPENING FLAP DOOR used with piano, butt or concealed hinges.
- Opening angle 80°, 90° or 100°.
- NSDX-35 is designed to hold door in fully opened position.
- Speed adjustment screw located on front for easy adjustment.
- Two stop version (holds door at 65°and 90°) is also available.
- Torque Calculation :
  Torque = Door Height × 0.5 × Door Weight
  Per Piece: 19~60 lbs·inch (20~70 kg·cm)
  Per Pair: 38~120 lbs·inch (40~140 kg·cm)



Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)





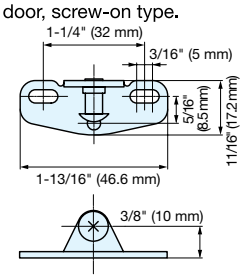
This drawing shows NSDX-35RK (right-hand side mounting).
NSDX-35LK (left-hand) is symmetrical.

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

NSDX-SZ

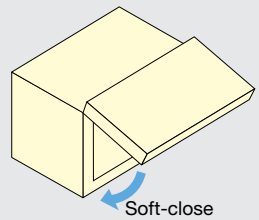
(Included)

Mounting Plate for wooden door, screw-on type.



Arm Mounting Plate

80˚~100˚ Opening



Material	Finish
Zinc Alloy	Nickel
Steel	

Item No.		Weight (g)	Box (pcs)	Carton (pcs)
NSDX-35RK	Right	181	20	80
NSDX-35LK	Left			

Opening Angle	Hinge Type	A	B	C	D	E	F
80°	Concealed Hinge	4-3/16" (106)	4-1/8" (105)-S	4-3/4" (121)-S	-	-	7/16" (11)
	Piano/Butt Hinge	3-15/16" (100)	-	-	3-7/8" (99)	4-1/2" (115)	
90°	Concealed Hinge	3-7/8" (98)	3-13/16" (97)-S	4-7/16" (113)-S	-	-	
	Piano/Butt Hinge	3-5/8" (91.5)	-	-	3-9/16" (90.5)	4-3/16" (106.5)	
100°	Concealed Hinge	3-5/8" (92.5)	3-5/7" (91.5)-S	4-1/4" (107.5)-S	-	-	
	Piano/Butt Hinge	3-3/8" (85)	-	-	3-5/16" (84 mm)	3-15/16" (100)	

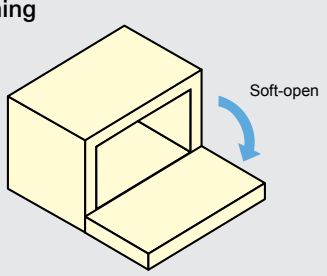
() units in mm

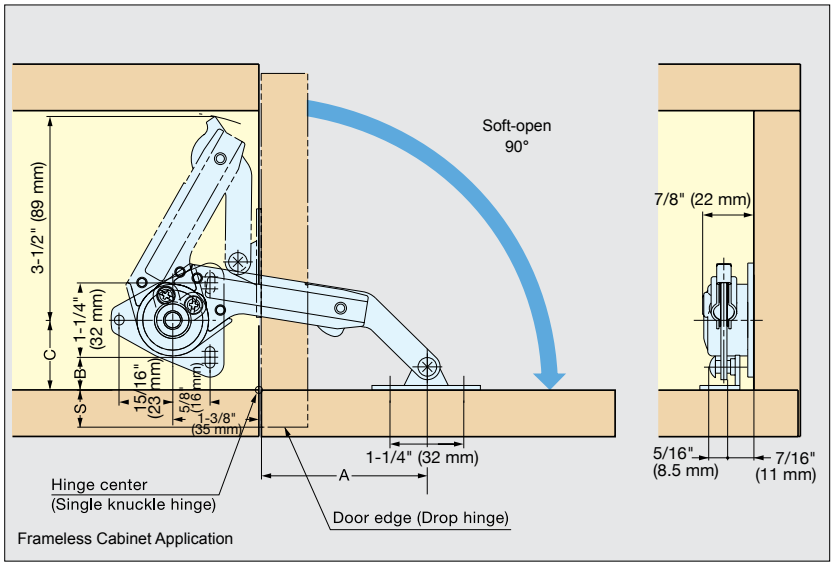
ADJUSTABLE SOFT-DOWN STAY (SHORT-ARM) NSDX-10(R/L)K/TV



- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges (SDH-001, SDH-P, P.238).
- Short arm type designed for small door application.
- Torque Calculation :
  Torque = Door Height × 0.5 × Door Weight
  Per Piece : 8.7~17.4 lbs·in (10~20 kgf·cm)
  Per Pair : 17.4~34.7 lbs·in (20~40 kgf·cm)

90˚ Opening

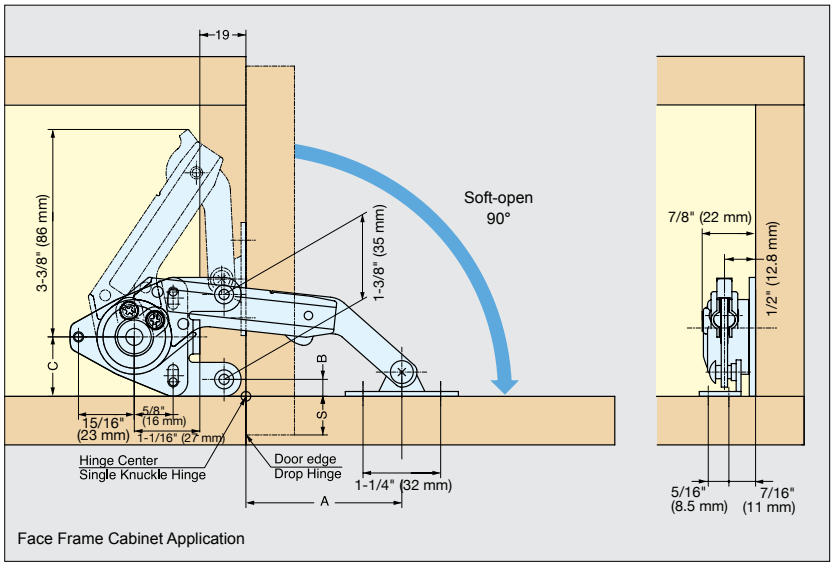




Frameless Cabinet Application

Hinge Type	A	B	C
Drop Hinge	2-9/32"+S (58 mm +S)	9/16" (14 mm)	1-3/16" (30 mm)
Single Knuckle Hinge	2-13/16" (71 mm)	1-1/16" (27 mm)	1-11/16" (43 mm)

"S"dimension is the overlay coverage for drop hinge(s).



Face Frame Cabinet Application



Face Frame Bracket: FFCB-SD-1
(Sold separately, see P.345)



Hinge Type	A	B	C
Drop Hinge (SDH-001)	1-7/8"+S (48 mm+S)	9/32" (74 mm)	31/32" (24.5 mm)
Single Knuckle Hinge	32 (2-7/16")	13/16" (20.5 mm)	1-1/2" (38 mm)

"S"dimension is the overlay coverage for drop hinge(s).

Item No.	Material	Finish	Weight (g)	Box (pcs)	Carton (pcs)
NSDX-10RK/TV	Zinc Alloy/Steel	Nickel	143	20	80
NSDX-10LK/TV					

HDS/HDSN



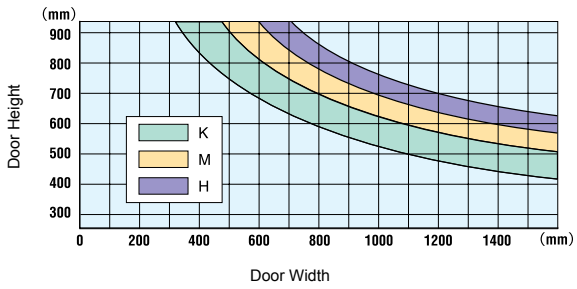
HEAVY DUTY SOFT-DOWN STAY

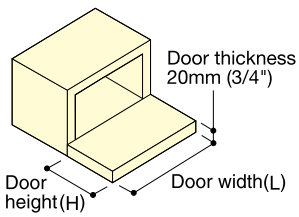
- Keeps flap/lid from slamming down.
- Recognized by LGA for 90,000 cycles.
- Used in pairs.

Designed to operate at room temperature 41°~95°F (5°~35°C).

APPLICATION		MOUNTING SIDE	MODEL
Downward-Opening Flap	90°	Right	HDS-10□R
		Left	HDS-10□L
Top-Opening Flap	70°	Right	HDS-20□R
		Left	HDS-20□L
Upward-Opening Flap	80°~90°	Right	HDS-30□R HDSN-30□R
		Left	HDS-30□L HDSN-30□L

□ : add K/M/H





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

HEAVY DUTY SOFT-DOWN STAY

RoHS compliant | 3.5×15 STEEL | Lapcon

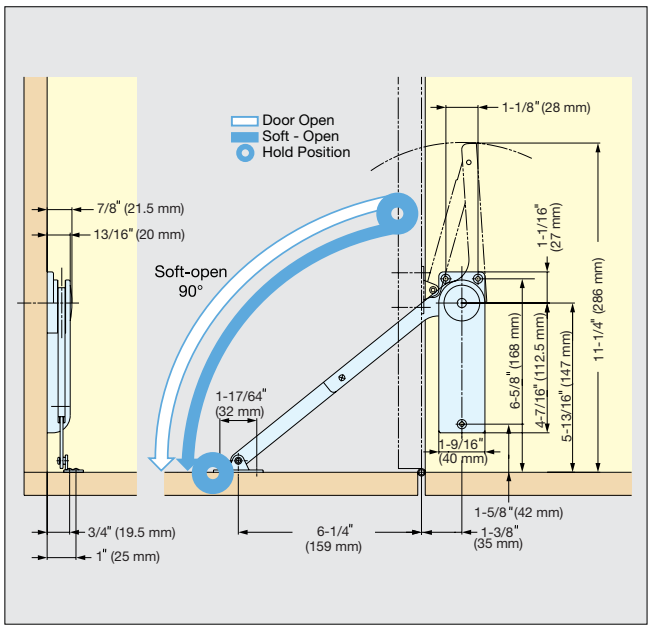
HDS-10



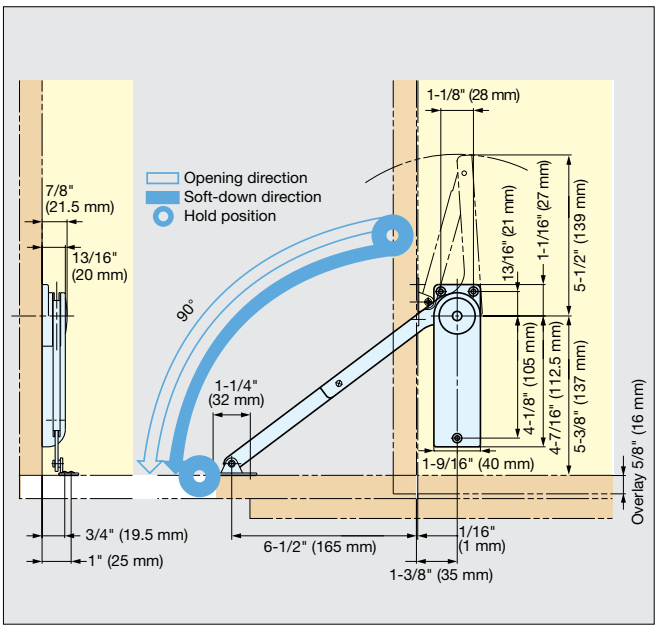
- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges (SDH-001, SDH-P, P.238).
- HDS-10 is designed to hold door in closed and opened position.
- Used in pairs
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  K-Type (Light Duty):
  140~200 kg·cm (121~173 lbs·inch)/pair
  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



With Piano/Butt Hinge



With Drop Hinge (SDH-001)



*S=Overlay coverage in case of drop hinge

Item No.		Type	Torque /pair	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right					
HDS-10KL	HDS-10KR	Light Duty	121~173 lbs·in (140~200 kg·cm)	290	40	200
HDS-10ML	HDS-10MR	Medium Duty	173~216 lbs·in (200~250 kg·cm)			
HDS-10HL	HDS-10HR	Heavy Duty	216~260 lbs·in (250~300 kg·cm)	310		

Material	Finish/Color
Steel	Nickel
Plastic	Black, White

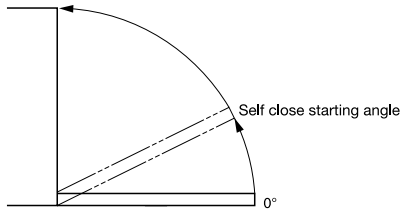
SELF CLOSE STAY

HDS-10S



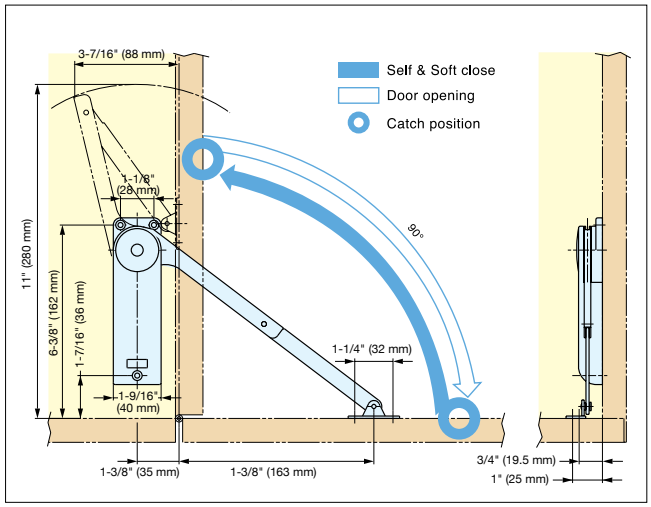
- For DOWNWARD-OPENING FLAP DOOR used with piano, butt or drop hinges (SDH-001, SDH-P, P.238).
- When pushed to close, HDS-10S is designed to self close and soft close
- Used in pairs
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  K-Type: 52~82 lbs·in (60~95 kgf·cm)/ pair
  M-Type: 82~112 lbs·in (95~130 kgf·cm)/ pair
  H-Type: 95~138 lbs·in (110~160 kgf·cm)/ pair
  S-Type: 121~ 156 lbs·in (140~180 kgf·cm)/ pair

Self close starting angle

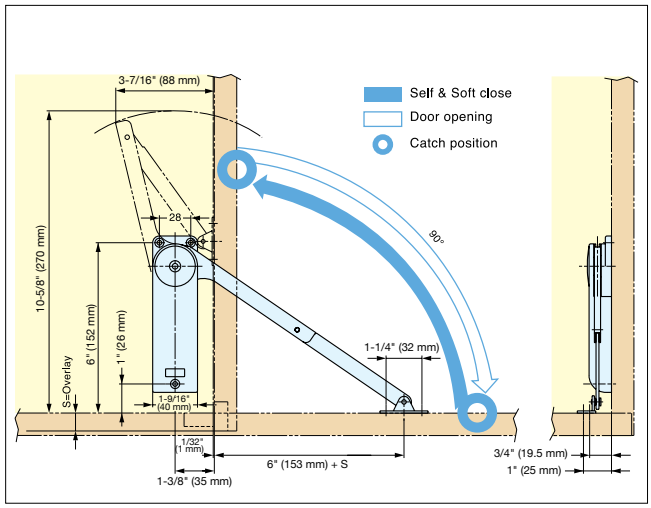


Type	Self close starting angle
K	5°~35°
M	5°~20°
H	
S	5°~15°

With Piano/Butt Hinge



With Drop Hinge (SDH-001)



*S=Overlay coverage in case of drop hinge

Item No.		Type	Torque /pair
Left	Right		
HDS-10S-KL	HDS-10S-KR	Light Duty	52.2~82.6 lbs·in (60~95 kgf·cm)
HDS-10S-ML	HDS-10S-MR	Medium Duty	82.6~113.0 lbs·in (95~130 kgf·cm)
HDS-10S-HL	HDS-10S-HR	Heavy Duty	95.7~139.0 lbs·in (110~160 kgf·cm)
HDS-10S-SL	HDS-10S-SR	Super Heavy Duty	121.7~156.5 lbs·in (140~180 kgf·cm)

No.	Part Name	Material	Finish
①	Body	ABS plastic	Black/White
②	Arm	Steel	Nickel
③	Mounting Plate		

HEAVY DUTY SOFT-DOWN STAY

RoHS compliant | 3.5×15 STEEL | Lapcon

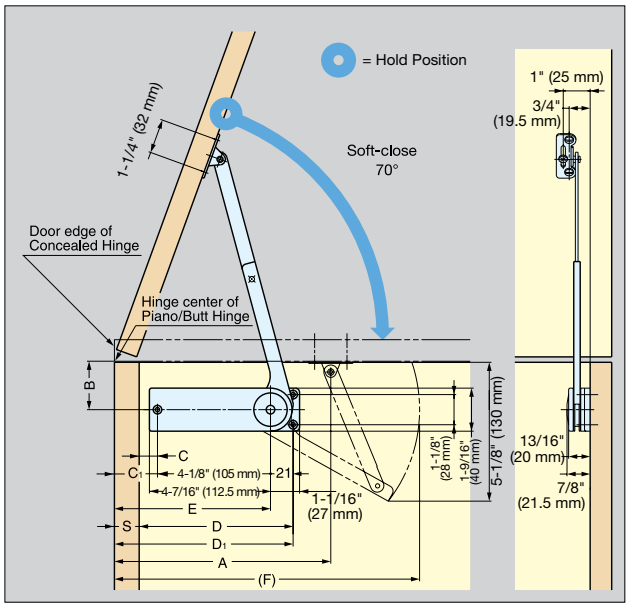
HDS-20



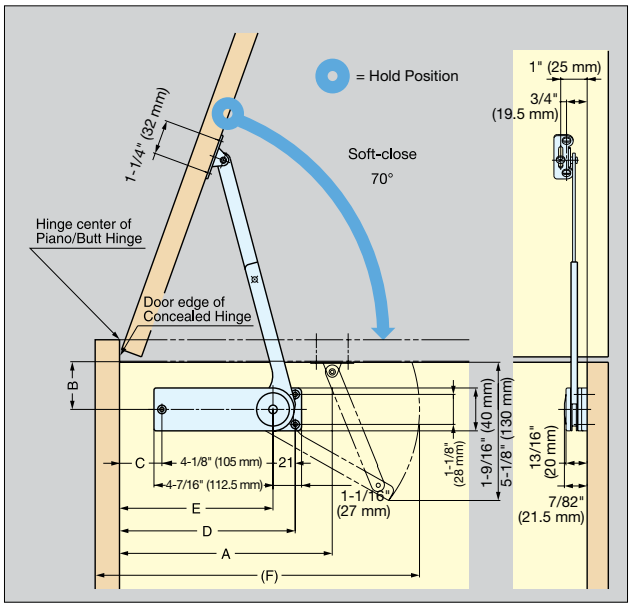
- For TOP-OPENING FLAP DOOR used with piano, butt or concealed hinges.
- Used in pairs.
- HDS-20 is designed to hold door in fully opened position.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  K-Type (Light Duty):
  121~173 lbs·in (140~200 kg·cm)/pair
  M-Type (Medium Duty):
  173~216 lbs·in (200~250 kg·cm)/pair
  H-Type (Heavy Duty):
  216~260 lbs·in (250~300 kg·cm)/pair



Overlay Use



Inset Use



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			-	-	(41)	(167)	(142.5)	(281)

S=Overlay coverage in case of concealed hinge. () units in mm.

Inset Use

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

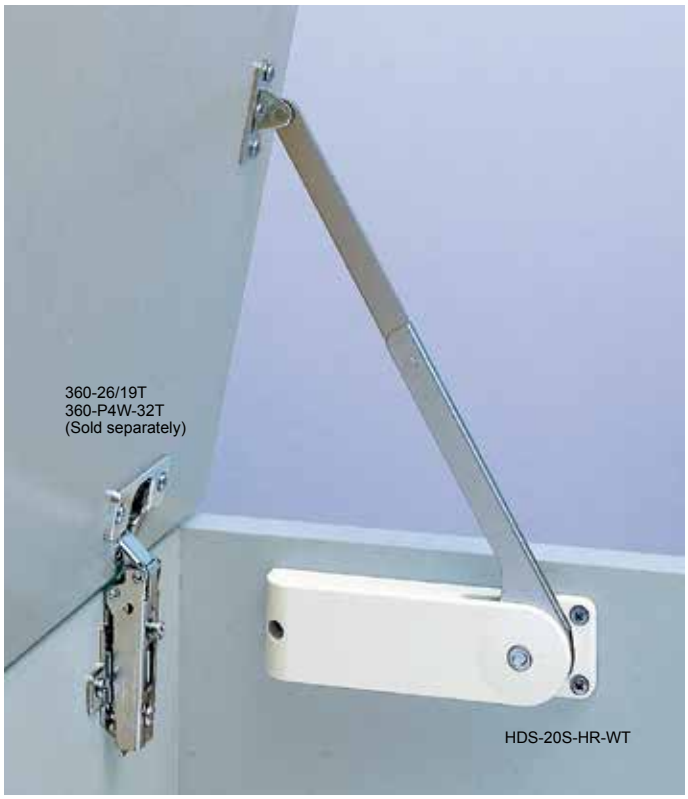
() units in mm.

Item No.		Type	Torque (kg·cm/pair)	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right					
HDS-20KL	HDS-20KR	Light Duty	121~173 lbs·in (140~200 kg·cm)	280	40	200
HDS-20ML	HDS-20MR	Medium Duty	173~216 lbs·in (200~250 kg·cm)	290		
HDS-20HL	HDS-20HR	Heavy Duty	216~260 lbs·in (250~300 kg·cm)	300		

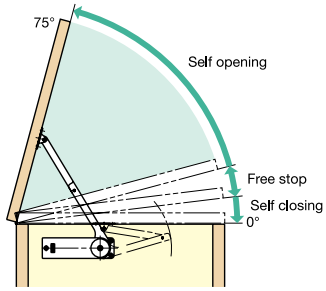
Material	Finish/Color
Steel	Nickel
Plastic	Black, White

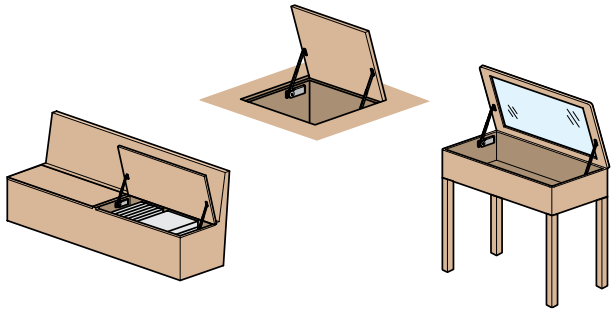
SELF OPENING STAY

HDS-20S

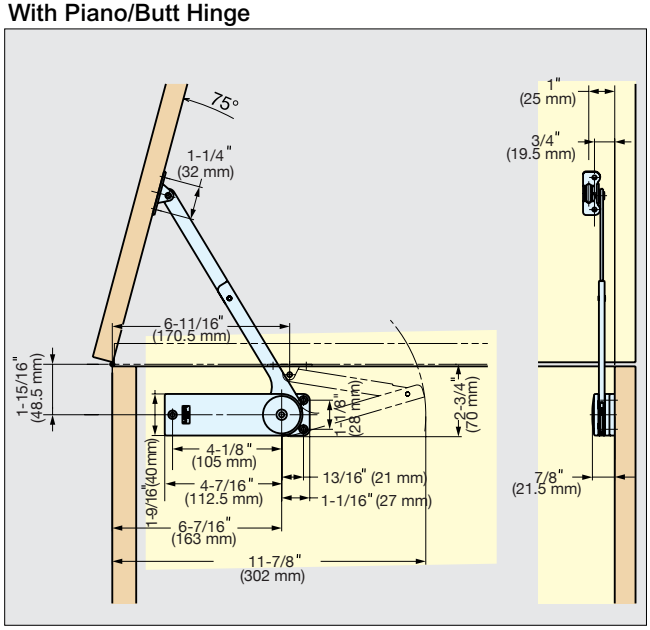


- Lid will self open past the free stop angle.
- For TOP-OPENING FLAP DOOR used with piano, butt or concealed hinges.
- HDS-20S is designed to hold door in fully opened position.
- For soft-close feature, use HDS-20.
- Used in pairs.
- Torque Calculation:
  Torque = Door Height × 0.5 × Door Weight
  H-Type : 61~95 lbs·in (70~110 kg·cm)/pair
  S-Type : 96~130 lbs·in (111~150 kg·cm)/pair

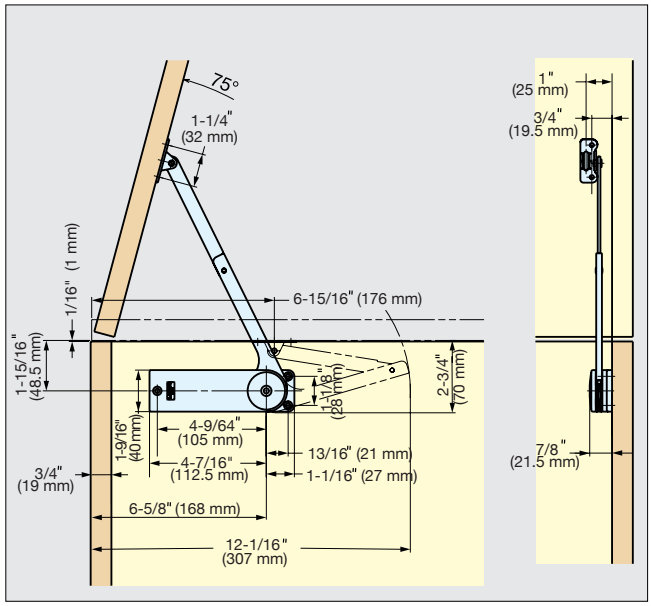




With Piano/Butt Hinge



With Concealed Hinge



Item No.		Type	Torque /pair	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right					
HDS-20S/HL-BL	HDS-20S/HR-BL	H	61~95.45 lbs·in (70~110 kg·cm)	300	40	200
HDS-20S/HL-WT	HDS-20S/HR-WT					
HDS-20S/SL-BL	HDS-20S/SR-BL	S	96~130 lbs·in (111~150 kg·cm)			
HDS-20S/SL-WT	HDS-20S/SR-WT					

Material	Finish/Color
Steel	Nickel
Plastic	Black/White

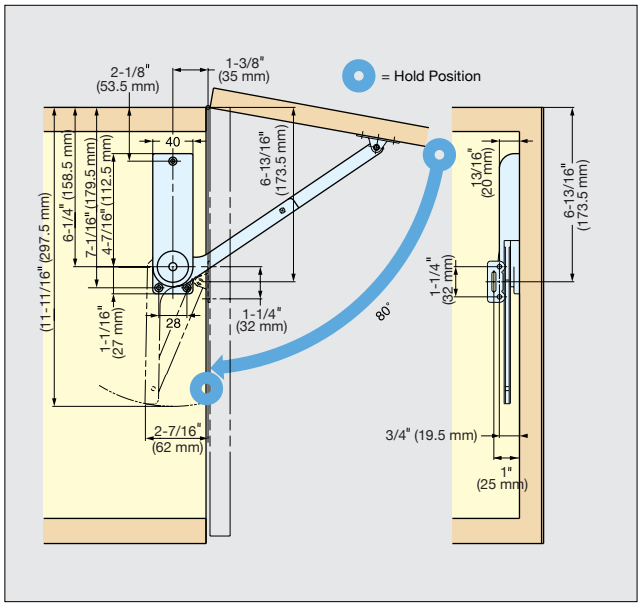
HEAVY DUTY SOFT-DOWN STAY

HDS-30

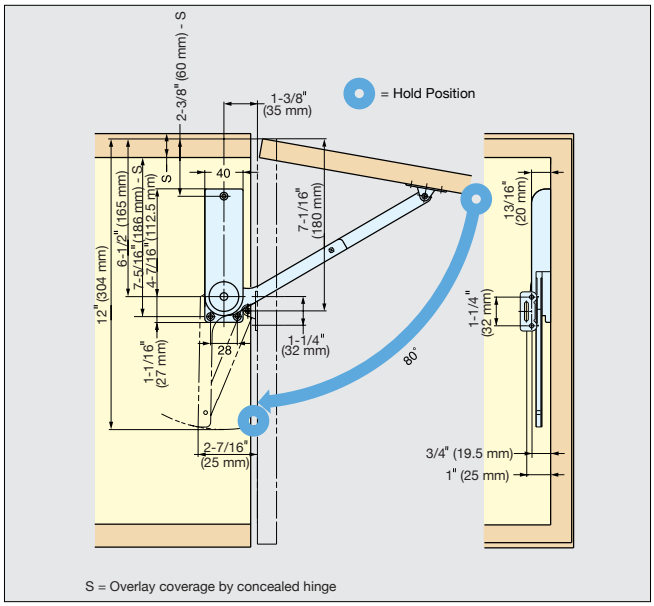


- For UPWARD-OPENING FLAP DOOR used with piano, butt or concealed Hinges.
- Used in pairs.
- HDS-30 is designed to securely latch a flap closed and hold it in the fully opened position.
- Torque Calculation:
  Torque = Door Height × 1/2 × Door Weight
- K-Type (Light Duty):
  121~173 lbs·in (140~200 kg·cm)/pair
- M-Type (Medium Duty):
  173~216 lbs·in (200~250 kg·cm)/pair
- H-Type (Heavy Duty):
  216~260 lbs·in (250~300 kg·cm)/pair

With Single Knuckle Hinge



With Concealed Hinge



S = Overlay coverage by concealed hinge

Item No.		Type	Torque /pair	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right					
HDS-30KL	HDS-30KR	Light Duty	121~173 lbs·in (140~200 kg·cm)	270	40	200
HDS-30ML	HDS-30MR	Medium Duty	173~216 lbs·in (200~250 kg·cm)	290		
HDS-30HL	HDS-30HR	Heavy Duty	216~260 lbs·in (250~300 kg·cm)	300		

Material	Finish/Color
Steel	Nickel
Plastic	Black, White

HEAVY DUTY SOFT-DOWN STAY

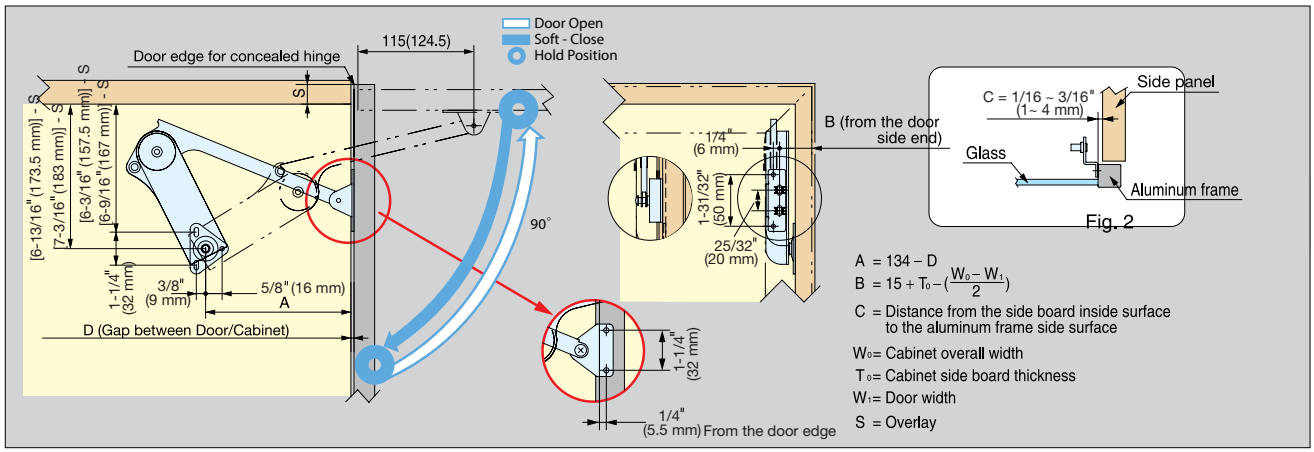
3.5×15 STEEL Lapcon **HDSN-30**

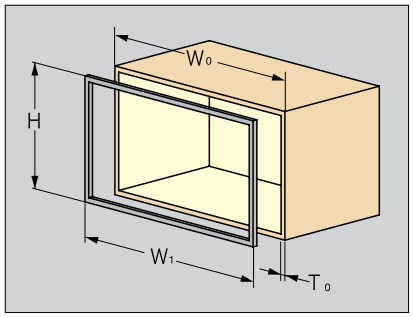


- For UPWARD-OPENING FLAP DOOR used with concealed hinges.
- Used in pairs.
- HDSN-30 is designed to hold door in closed and opened position.
- Arm bracket for wood and aluminum frame available. Specify when ordering.
- Torque Calculation:
  Torque = Door Height × 1/2 × Door Weight
  In case of opening angle 90°
  K-Type (Light Duty):
  140~179 kg·cm (122~155 lbs·inch)/pair
  M-Type (Medium Duty):
  180~219 kg·cm (156~190 lbs·inch)/pair
  H-Type (Heavy Duty):
  220~259 kg·cm (191~225 lbs·inch)/pair
  S-Type (Super Heavy Duty):
  260~300 kg·cm (226~260 lbs·inch)/pair

Material	Finish/Color
Steel	Nickel
Plastic	Light Grey

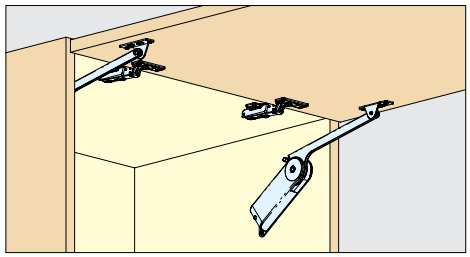
Dimensions are for 90° opening, solid wood or 45 mm width aluminum frame door.
For 80° opening, please use the figures in ( ).
Fig.1 and Fig. 2 show the dimensions for 20 mm width aluminum frame door using mounting plate HDSN-AZ.
Recommended concealed hinge is overlay/105° opening/free swing type.





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

Door height (cm) × 1/2 × Door weight (kg) = Door torque (kg·cm)



Arm Mounting Plate (Sold separately, please specify when ordering.)

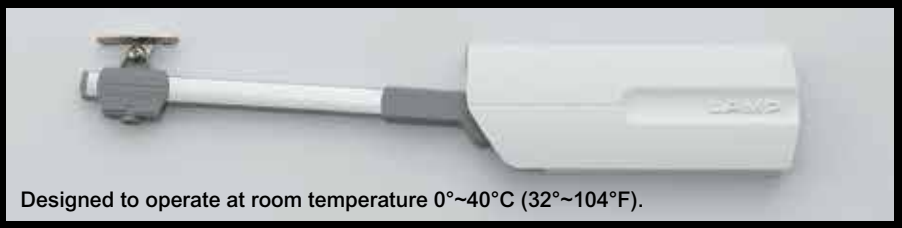
Item No.	Applicable Door
HDSN-SZ	45mm width aluminum frame door or wood door
HDSN-AZ	20mm width aluminum frame door

Item No.		Type	Door torque		Box (pcs)	Carton (pcs)
Left	Right		Opening angle 90°	Opening angle 80°		
HDSN-30KL	HDSN-30KR	K	122~155 lbs·in (140~179 kg·cm)	122~173 lbs·in (140~199 kg·cm)	40	200
HDSN-30ML	HDSN-30MR	M	156~190 lbs·in (180~219 kg·cm)	174~216 lbs·in (200~249 kg·cm)		
HDSN-30HL	HDSN-30HR	H	191~225 lbs·in (220~259 kg·cm)	217~260 lbs·in (250~299 kg·cm)		
HDSN-30SL	HDSN-30SR	S	226~260 lbs·in (260~300 kg·cm)	261~303 lbs·in (300~350 kg·cm)		

SLS-ELAN

EASY LIFT-UP STAY

- Lift-assist mechanism for extra light-opening with free stop feature.
- Offers smooth and soft downward movement preventing lids or doors from slamming shut.
- Easy to install by aligning the body to the edge of cabinet.
- Recognized by LGA for 40,000 cycles.

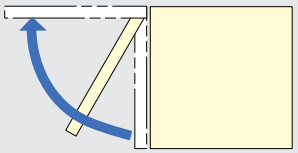


Designed to operate at room temperature 0°~40°C (32°~104°F).

■ 3 functions on 1 stay

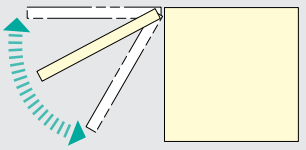
1. Lift-assist





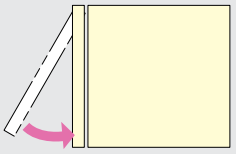
2. Free stop

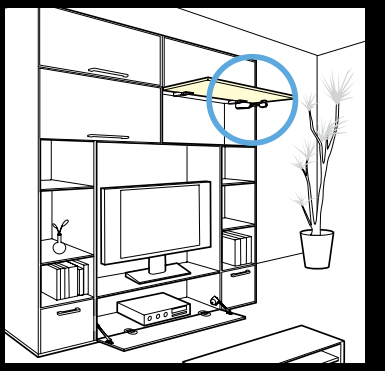


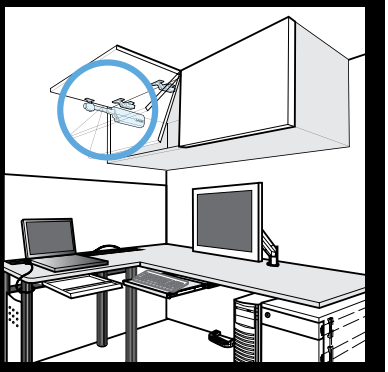


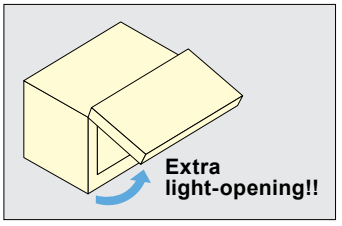
3. Soft-close

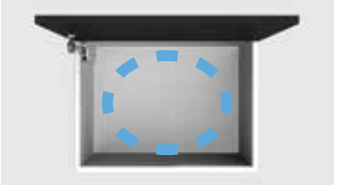












Slim design & installed location maximizes space inside of cabinet

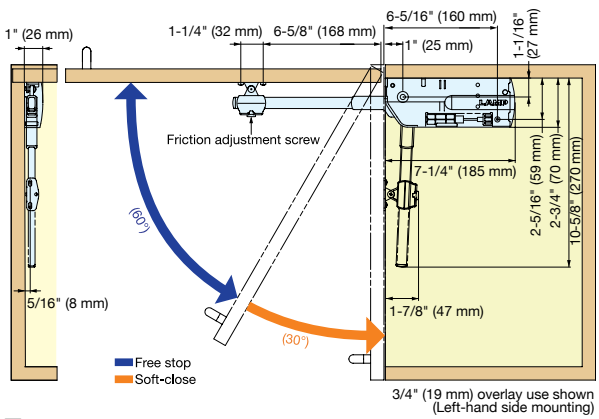
EASY LIFT-UP STAY

RoHS STEEL Lapcon

SLS-ELAN



- For UPWARD-OPENING FLAP DOOR used with concealed, piano, butt, or drop hinges.
- Designed to provide effortless opening and hold door in closed and opened position.
- Damper equipped for soft & silent closing.
- Optional bracket for aluminum frame door available.
- Single or pair use allows wide range of door sizes/weights.
- Handed left or right.

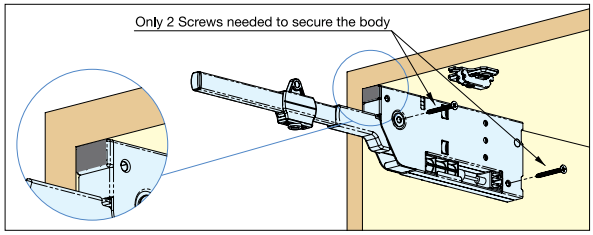


Door Weight Range Table (lbs.)

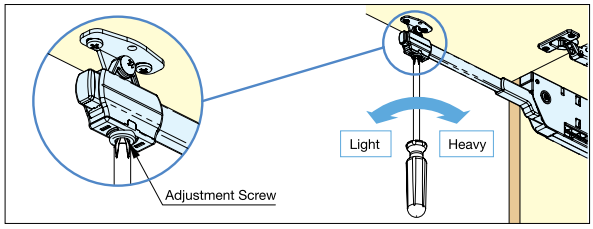
Door Height (inch)	Single use				Pair use			
	M-type		H-type		M-type		H-type	
	Min	Max	Min	Max	Min	Max	Min	Max
12"	8.0	10.8	10.8	14.5	16.0	21.7	21.7	29.0
13"	7.4	10.0	10.0	13.4	14.8	20.0	20.0	26.8
14"	6.9	9.3	9.3	12.4	13.7	18.6	18.6	24.9
15"	6.4	8.7	8.7	11.6	12.8	17.3	17.3	23.2
16"	6.0	8.1	8.1	10.9	12.0	16.3	16.3	21.8
17"	5.6	7.6	7.6	10.2	11.3	15.3	15.3	20.5
18"	5.3	7.2	7.2	9.7	10.7	14.4	14.4	19.3
19"	5.1	6.8	6.8	9.2	10.1	13.7	13.7	18.3
20"	4.8	6.5	6.5	8.7	9.6	13.0	13.0	17.4
21"	4.6	6.2	6.2	8.3	9.1	12.4	12.4	16.6
22"	4.4	5.9	5.9	7.9	8.7	11.8	11.8	15.8
23"	4.2	5.7	5.7	7.6	8.3	11.3	11.3	15.1
24"	4.0	5.4	5.4	7.3	8.0	10.8	10.8	14.5
25"	3.8	5.2	5.2	7.0	7.7	10.4	10.4	13.9
26"	3.7	5.0	5.0	6.7	7.4	10.0	10.0	13.4
27"	3.6	4.8	4.8	6.4	7.1	9.6	9.6	12.9
28"	3.4	4.6	4.6	6.2	6.9	9.3	9.3	12.4

*Single or pair use depending on door size and weight.

■ Easy Installation



■ Adjustment





Face Frame Bracket: FFCB-SLS
(Sold separately, see P.344)



Item No.		Type	Torque per piece	Material	Finish/Color	Weight (g)	Box (pcs)	Carton (pcs)
SLS-ELAN-MR	Right	M-type (Medium Duty)	48~65 lbs·in (55~75 kg·cm)	• Aluminum • Steel • ABS	• Anodized • Galvanized • Light Grey	600	20	100
SLS-ELAN-ML	Left							
SLS-ELAN-HR	Right	H-type (Heavy Duty)	65~87 lbs·in (75~100 kg·cm)					
SLS-ELAN-HL	Left							

LIFT ASSIST MECHANISM

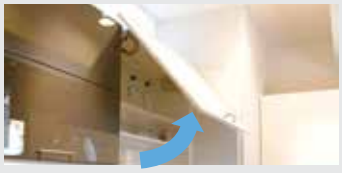
RoHS compliant Lapcon **EZS-ELAN**

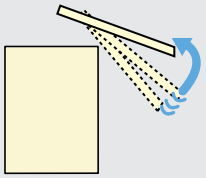


- Lapcon stay for UPWARD-OPENING FLAP DOORS.
- Door opens over the cabinet.
  (Space of 4-5/16" is required over cabinet)
- Lift-assist mechanism for extra light-opening.
- Door stays in any desired position.
- Damper equipped for soft & silent closing at the end.
- Slim design and installed location maximizes space inside of cabinet.
- Simple installation by aligning body to edge of cabinet.
- No hinges/connecting bar needed.
- Door height adjustable. (Horizontal ±1/16", Vertical ±1/16")
- Successfully passed 30,000 open/close private cycle tests.
- Recommended Door Size and Weight:
  - Width, Max. 47-1/4" (1200 mm)
  - Height, 19-11/16"~29-1/2" (500~750 mm)/Door
  - Weight, 11~27.5 lbs (5~12.5 kg)/Door
- Sold per pair.

■ 3 functions on 1 stay

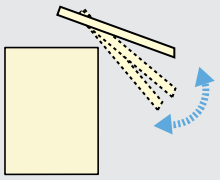
1. Lift-assist



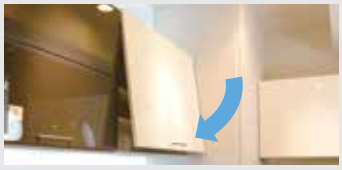


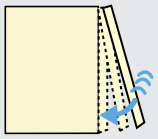
2. Free stop



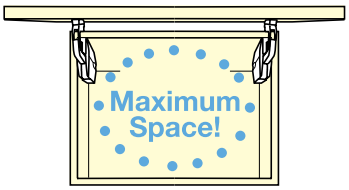


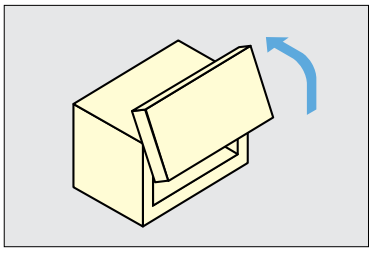
3. Soft-close



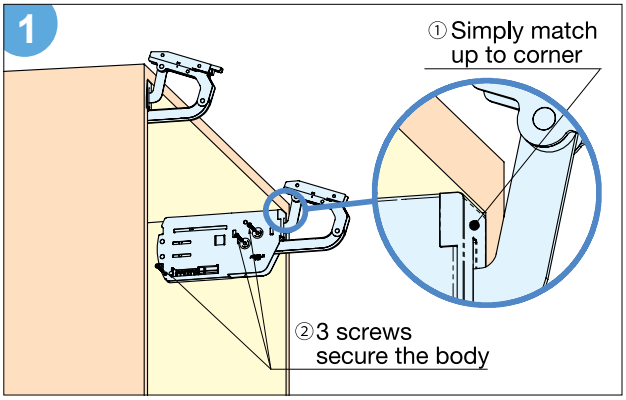


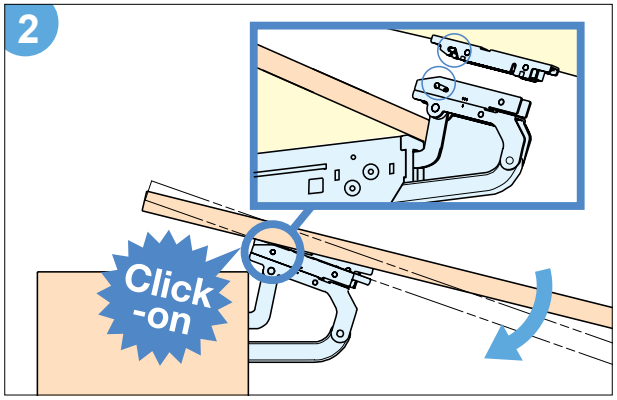




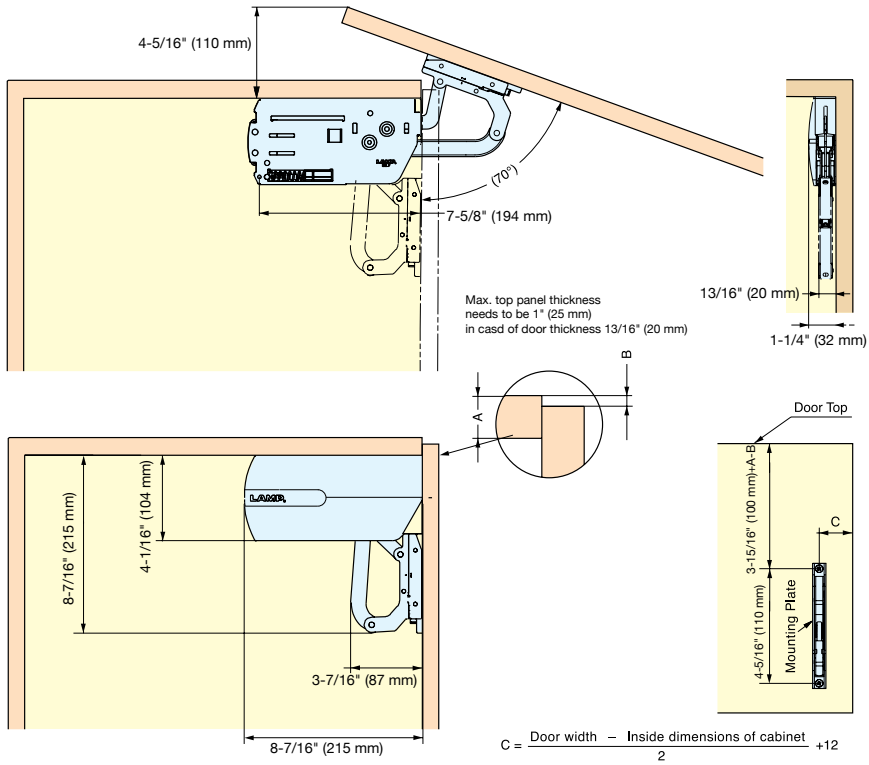


■ Easy Installation









■ Door Weight Range Table (lbs.) Per Pair

Door Height (Inches)	EZS-ELAN-LL		EZS-ELAN-ML		EZS-ELAN-MM		EZS-ELAN-HM		EZS-ELAN-HH	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
19	10.7	15.7	15.7	21.0	21.0	26.5	26.5	29.9	29.9	36.8
20	10.3	15.0	15.0	20.0	20.0	25.3	25.3	28.5	28.5	35.0
21	9.8	14.3	14.3	19.1	19.1	24.1	24.1	27.2	27.2	33.4
22	9.4	13.7	13.7	18.3	18.3	23.0	23.0	26.0	26.0	31.9
23	9.0	13.2	13.2	17.5	17.5	22.1	22.1	24.9	24.9	30.6
24	8.7	12.7	12.7	16.8	16.8	21.2	21.2	23.9	23.9	29.3
25	8.4	12.2	12.2	16.2	16.2	20.4	20.4	23.0	23.0	28.2
26	8.1	11.8	11.8	15.6	15.6	19.7	19.7	22.2	22.2	27.2
27	7.9	11.4	11.4	15.1	15.1	19.0	19.0	21.4	21.4	26.2
28	7.6	11.0	11.0	14.6	14.6	18.3	18.3	20.6	20.6	25.3
29	7.4	10.7	10.7	14.1	14.1	17.7	17.7	20.0	20.0	24.4
30	7.2	10.3	10.3	13.7	13.7	17.2	17.2	19.3	19.3	23.7
31	7.0	10.0	10.0	13.3	13.3	16.6	16.6	18.7	18.7	22.9
32	6.8	9.8	9.8	12.9	12.9	16.2	19.2	18.2	18.2	22.3

■ Lifting power

Door height (inch) x (Door weight (lbs) -1)

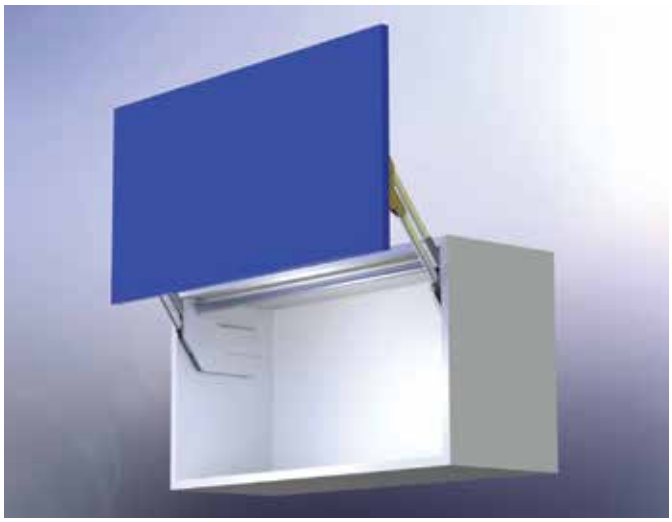
Item No.	Lifting Power (lbs·in)
EZS-ELAN-LL	185~280
EZS-ELAN-ML	280~380
EZS-ELAN-MM	380~485
EZS-ELAN-HM	485~550
EZS-ELAN-HH	550~680

Item No.	Weight (g)	Box (pcs)
EZS-ELAN-LL	4.9 lbs (2245)	5
EZS-ELAN-ML	5.0 lbs (2316)	
EZS-ELAN-MM	5.25 lbs (2387)	
EZS-ELAN-HM	5.35 lbs (2431)	
EZS-ELAN-HH	5.45 lbs (2475)	

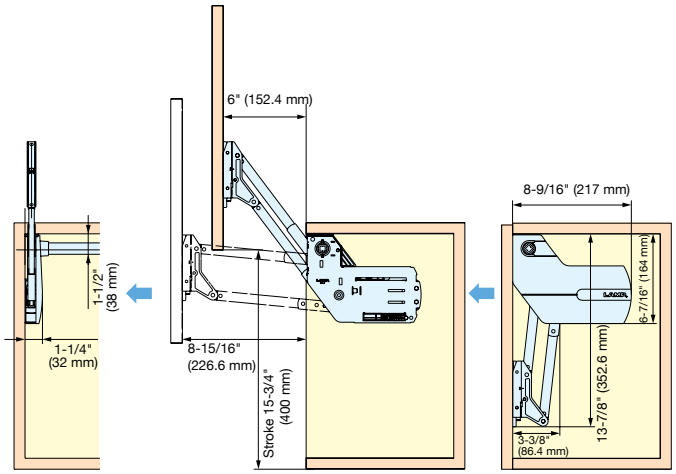
Material	Finish/Color
Steel, ABS	Light Grey, Nickel

SWING LIFT-UP STAY

Lapcon **SLU-ELAN**



- Lapcon stay for SWING LIFT-UP DOORS.
- Lift-assist mechanism for extra light-opening.
- Door stays in any desired position.
- Damper equipped for soft & silent closing at the end.
- Simple installation by mounting guide plate and slide in main body.
- No hinges are required.
- Connecting bar stays on top for maximum access inside the cabinet.
- Recommended Door Size and Weight :
  - Width, Max. 70-7/8" (1800 mm)
  - Height, 15-3/8"~19-11/16" (390~500 mm)/Door
  - Weight, 11~24.2 lbs (5~11 kg)/Door
- Connecting bar sold separately.

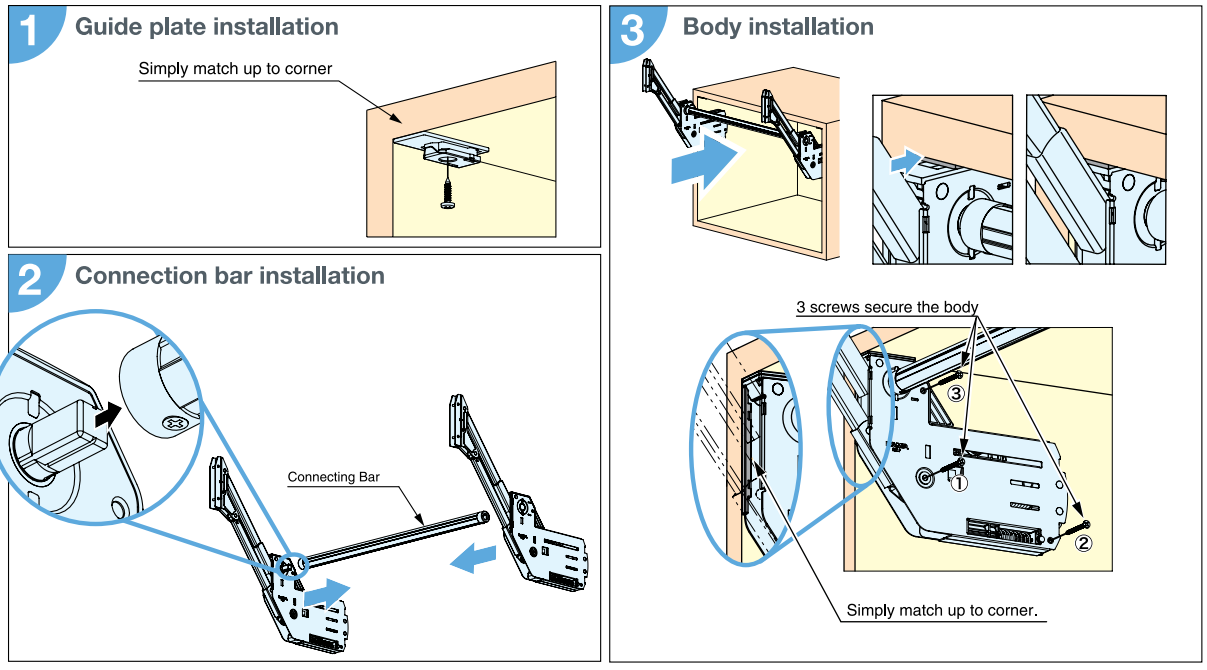




Face Frame Bracket: FFCB-SLU
(Sold separately, see P.344)



Simple Installation



SWING LIFT-UP STAY

Lapcon SLU-ELAN

Item No.	Door Weight	Door Height	Door Width	Box	Carton
SLU-ELAN-S4	11.0~14.3 lbs (5.0~6.5 kg)	15-3/8"~19-11/16" (390~500 mm*)	Max. 70-7/8" (1800 mm)	1 set	5 set
SLU-ELAN-L4	14.3~17.6 lbs (6.5~8.0 kg)				
SLU-ELAN-M4	17.6~20.9 lbs (8.0~9.5 kg)				
SLU-ELAN-H4	20.9~24.2 lbs (9.5~11.0 kg)				

*Min. inside cabinet height is 14-3/16" (360 mm)
*Door weight includes handle.

■ Connecting Bar (Sold separately)

Item No.	Max. Cabinet Width	Max. Interior Cabinet Width
ELB-480	23-5/8" (600 mm)	22-1/4" (566 mm)
ELB-780	35-1/2" (900 mm)	34-1/8" (866 mm)
ELB-1080	47-1/4" (1200 mm)	45-7/8" (1166 mm)
ELB-1380	59" (1500 mm)	57-3/4" (1466 mm)
ELB-1680	70 7/8" (1800 mm)	69-1/2" (1766 mm)

*Please specify the cabinet width when ordering. Connecting bar can be trimmed as necessary by customer.

FACE FRAME BRACKETS

• Bracket(s) are available to be used with below items on face frame cabinet.
• Screw set included in each set.
*Detailed information is shown on the following two pages.









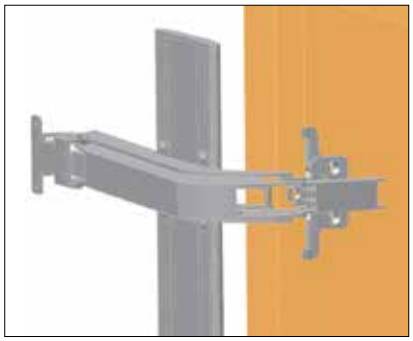


FACE FRAME BRACKET

STAINLESS

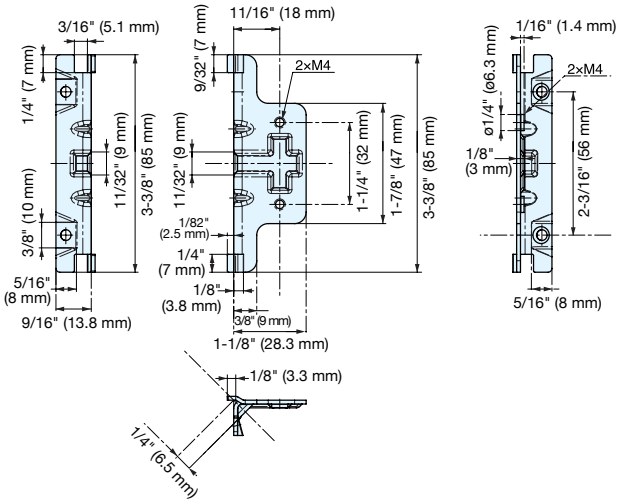
FFCB-HG-1







- Works with items below on face frame cabinets:
  - LIN-X
  - 360 Olympia Hinges: only for overlay models
  - 304B Hinges (with 304B-P4A-32)
  - 230 Hinges (with 360-P4W-32T): only for overlay models
- Sold per piece.
- Please specify the quantity of brackets necessary when ordering: 1 bracket is needed for each arm (LIN-X) or hinge (360, 304B, 230).



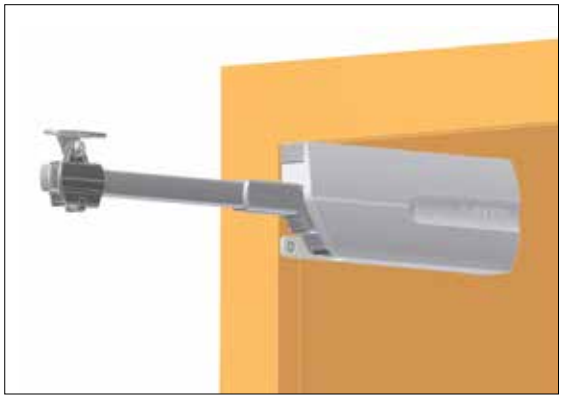
Material	Finish
304 Stainless Steel	Polished

FACE FRAME BRACKET

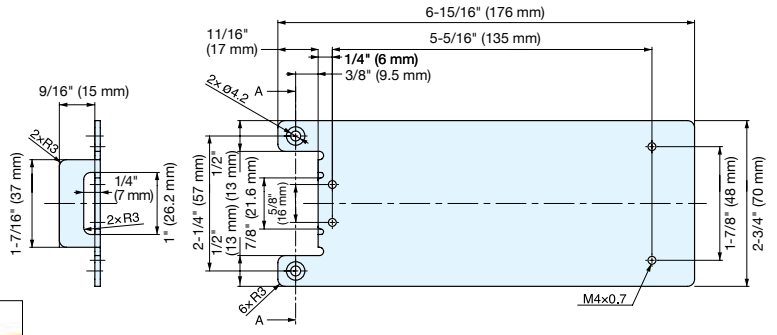
STEEL

FFCB-SLS





- Works with SLS-ELAN Series on face frame cabinets.
- Sold per piece.
- Please specify the quantity of brackets necessary when ordering: 1 bracket is needed for each stay.

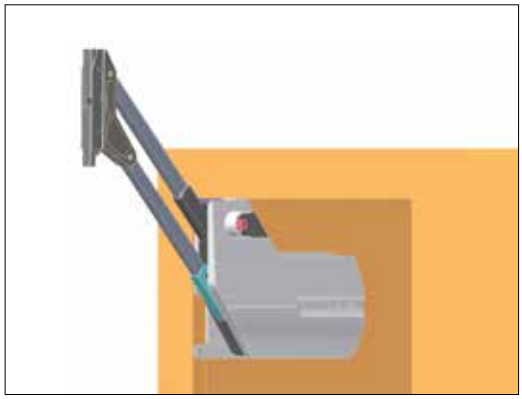


Material	Finish
Steel	Chromate

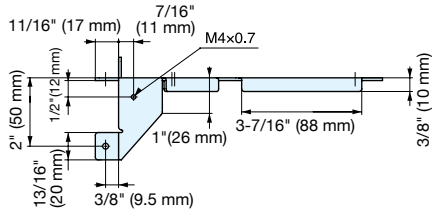
FACE FRAME BRACKET

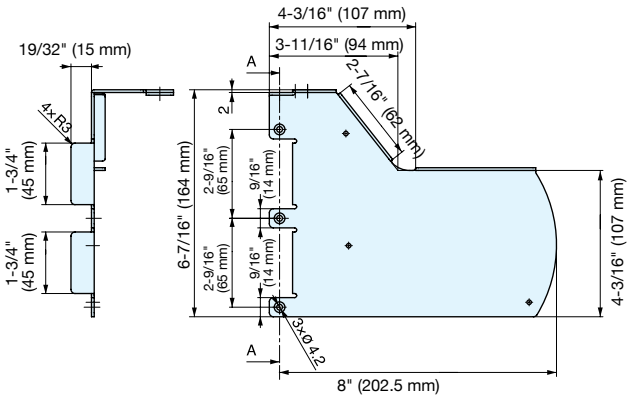
STEEL **FFCB-SLU**





- Works with SLU-ELAN Series on face frame cabinets.
- Sold per pair.





Material	Finish
Steel	Chromate

FACE FRAME BRACKET

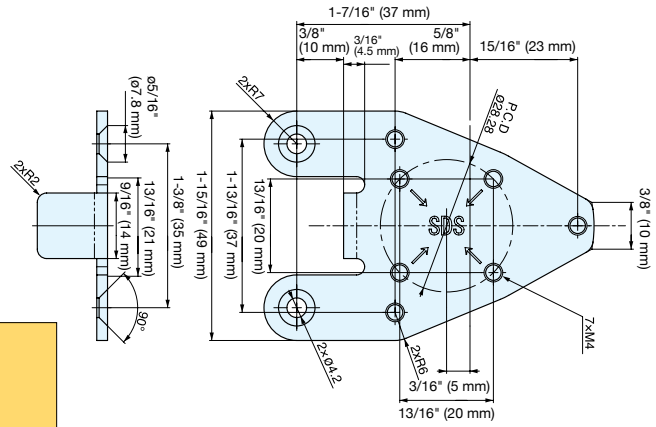
STEEL **FFCB-SD-1**

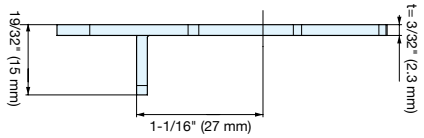






- Works with NSDX/SDS Series on face frame cabinets.
- Sold per piece.
- Please specify the quantity of brackets necessary when ordering: 1 bracket is needed for each stay.

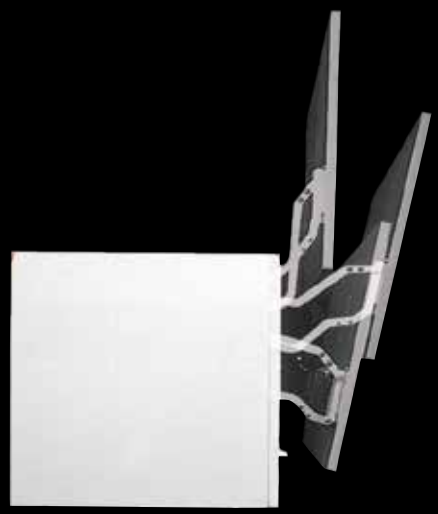




Material	Finish
Steel	Chromate

SLUN

VERTICAL SWING LIFT-UP MECHANISM



- Unique swing mechanism provides a lift-assist feature to help lift doors and hold at the open position.
- Sleek, compact design provides maximum access.
- Easy installation.
- Adjustable arm mounting plate.
- Successfully passed for 30,000 open/close private cycle tests.

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

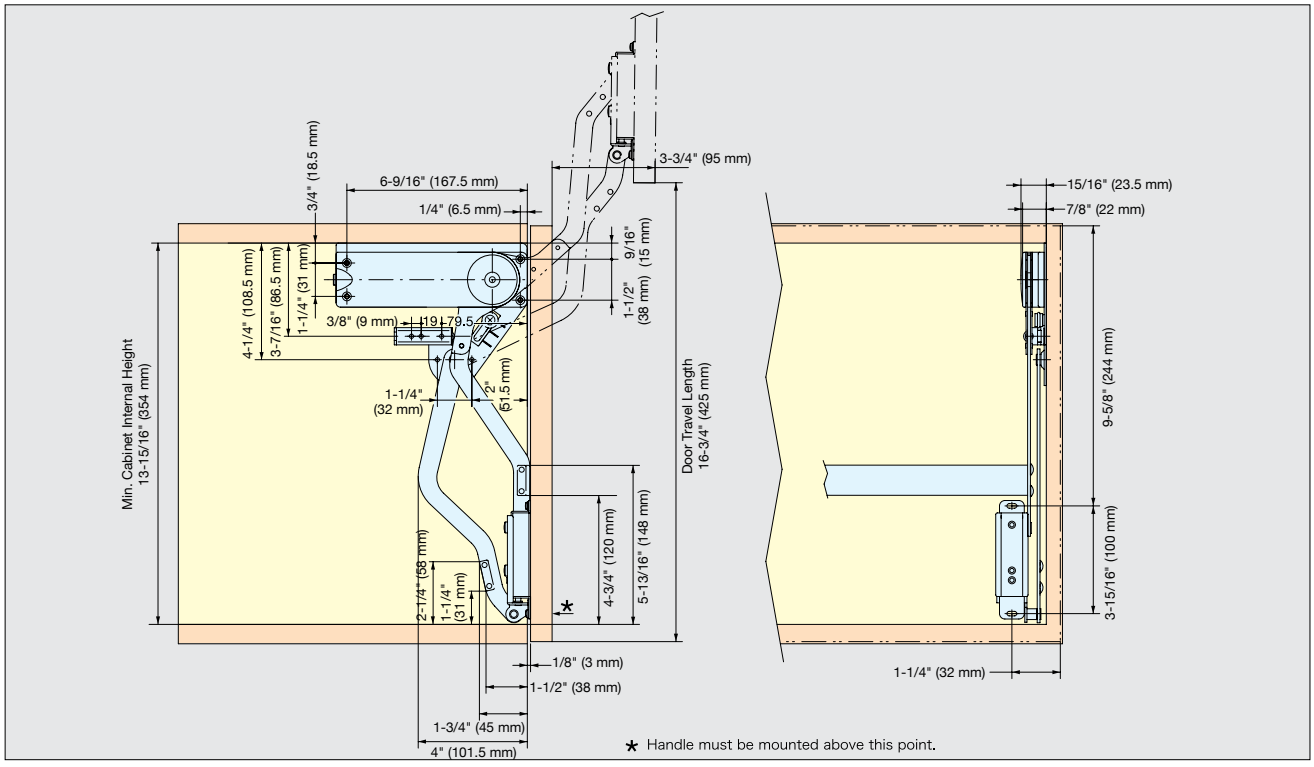


VERTICAL SWING LIFT-UP MECHANISM

3.5×15 STEEL Lapcon **SLUN**



- Unique mechanism will help lift doors and hold at the open position.
- Sleek & compact design.
- Easy installation.
- Adjustable arm mounting plate.
- Patented LAPCON technology provides a smooth and quiet motion.
- Successfully passed 30,000 open/close private cycle tests.
- Recommended Door Size and Weight:
  - Width, 23-5/8"~35-7/16" (600~900 mm)
  - Height, 15-3/8"~17-3/4" (390~450 mm)
  - Weight, 6.2~12.8 lbs (2.8~5.8 kg)



Material	Finish/Color
Steel	Nickel
Plastic	Grey

Item No	Door Weight	Box (set)	Carton (set)
SLUN-3N	6.2~8.4 lbs (2.8~3.8 kg)	5	50
SLUN-4N	8.4~10.6 lbs (3.8~4.8 kg)		
SLUN-5N	10.6~12.8 lbs (4.8~5.8 kg)		

Guide Bar Length

Door Type	Cabinet Width (mm)	
	23-5/8" (600 mm)	35-7/16" (900 mm)
Solid Wood Door	21-1/16" (535 mm)	32-7/8" (835 mm)
Frame Door	21-3/4" (551 mm)	33-1/2" (851 mm)

*SLUB-835 (32-7/8" (835 mm)) included unless specified.

VERTICAL SWING LIFT UP MECHANISM

SLUL



- For taller, heavier upward-opening doors.
- Soft closes to prevent slamming.
- The spring gently lifts the door after pulling it forward 4-3/4" ~ 5-15/16" (120 ~ 150 mm).
- Adjustable lift-assist feature refine's the opening force to best match your door's size and weight.
- Adjustments are easily accessible making maintenance simple.
- 3-Way adjustability:
  Vertical +/- 1/4" (6 mm)
  Horizontal +/- 1/8" (2.5 mm)
  Tilt +/- 5°

Body



Body Cover (Sold separately)

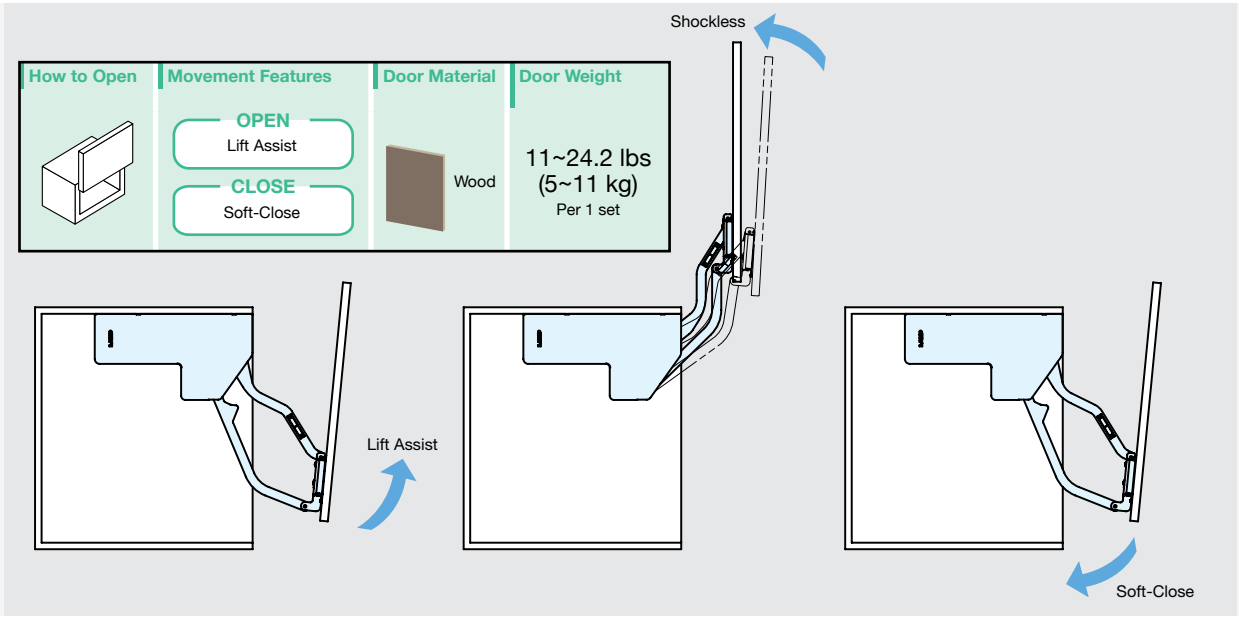


Application Example

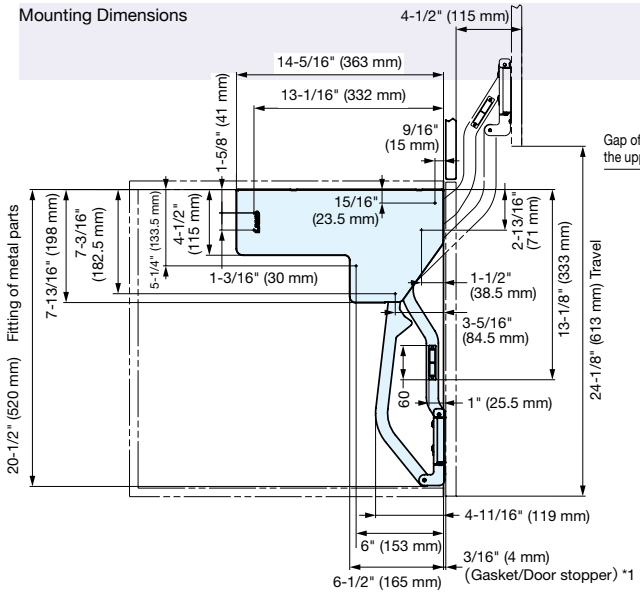


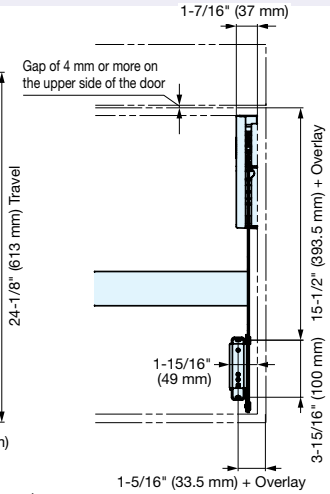


Image of Movement



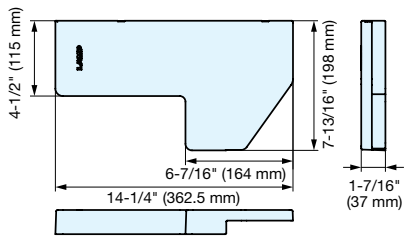
Mounting Dimensions



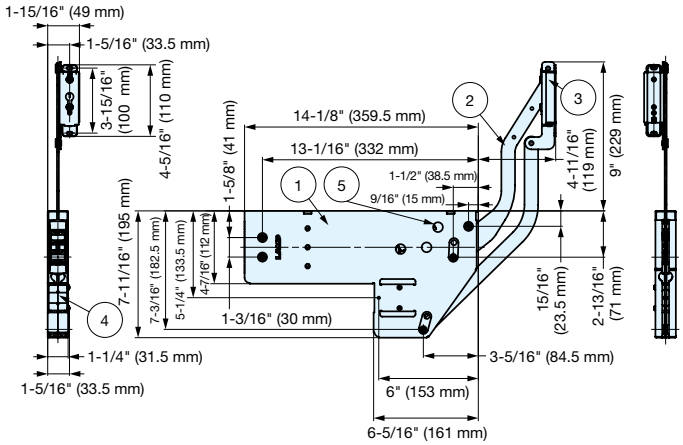


*1: If not using a gasket/door stopper, please shift the body 3/16" (4 mm) towards the back panel.
*2: The maximum door protrusion when opening and closing is approximately 13-1/2" (343 mm).
*3: Total travel of door is 24-1/8" (613 mm).

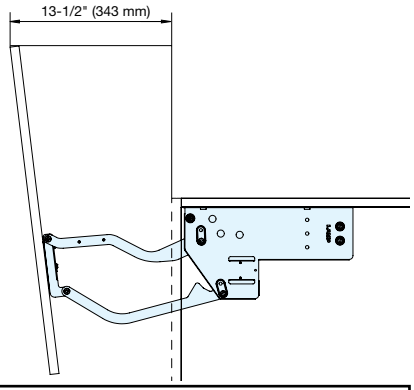
Body Cover (Sold separately)



Body



Maximum Projection



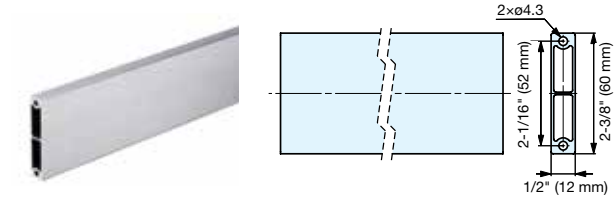
How to Order

1) Select a body.
2) Select a body cover.
3) Select a Connecting Bar.

- The Connecting Bar comes in three lengths, for door widths of 23-5/8" (600 mm), 29-1/2" (750 mm), and 35-7/16" (900 mm).
- Use the standard length Connecting Bar when the door overlay on the side panel is 9/16" (15 mm). For door overlays exceeding 9/16" (15 mm), cut the Connecting Bar to length using the calculation formula provided below.

Length of the Connecting Bar = Door width - (Overlay x 2) - 1-3/8" (35 mm)
Or, please calculate as follows below.
Length of the Connecting Bar = Cabinet internal width - 1-3/8" (35 mm)

Connecting Bar (Sold separately)



Body Cover (Sold Seperately)

Item No.	Material	Color
SLUL-C-WT	ABS	White
SLUL-C-DGR		Dark Grey

This product is sold as 1 set. The order quantity is "1", which includes one piece of the left and right.

Item No.	Part Name	Material	Finish/ Color
①	Body	Steel (SPCC)	Nickel
②	Arm		
③	Mounting Plate		
④	Damper Holder	Polyacetal (POM)	Natural
⑤	Adjustment Screw	Steel (SWRM)	Bright Chromate

Body

Item No.	Material	Finish	Door Width	Door Height	Door Weight
SLUL-8	Steel	Nickel	Max. 35-7/16" (900 mm)	21-5/8" ~ 35-7/16" (550 ~ 900 mm)	11 ~ 17.6 lbs (5 ~ 8 kg)
SLUL-11					17.6 ~ 24.2 lbs (8 ~ 11 kg)

This product is sold as 1 set. The order quantity is "1", which includes one piece of the left and right.

Connecting Bar (Sold separately)

Item No.	Door Width	Material	Finish	Bar Length
SLUL-B535	23-5/8" (600 mm)	Aluminum Alloy	Anodized	21-1/16" (535 mm)
SLUL-B685	29-1/2" (750 mm)			27" (685 mm)
SLUL-B835	35-7/16" (900 mm)			32-7/8" (835 mm)

VERTICAL SWING DOWN MECHANISM

RoHS compliant Lapcon **SLDL**



- For taller, heavier downward-opening doors.
- Unique swing down mechanism.
- The spring gently opens the door after pulling it forward 4-3/4" ~ 5-15/16" (120 ~ 150 mm).
- Soft closes to prevent slamming.
- Adjustable lift-assist feature refine's the opening force to best match your door's size and weight.
- Adjustments are easily accessible making maintenance simple.
- 3-Way adjustability:
  Vertical +/- 1/4" (6 mm)
  Horizontal +/- 1/8" (2.5 mm)
  Tilt +/- 5°

Body



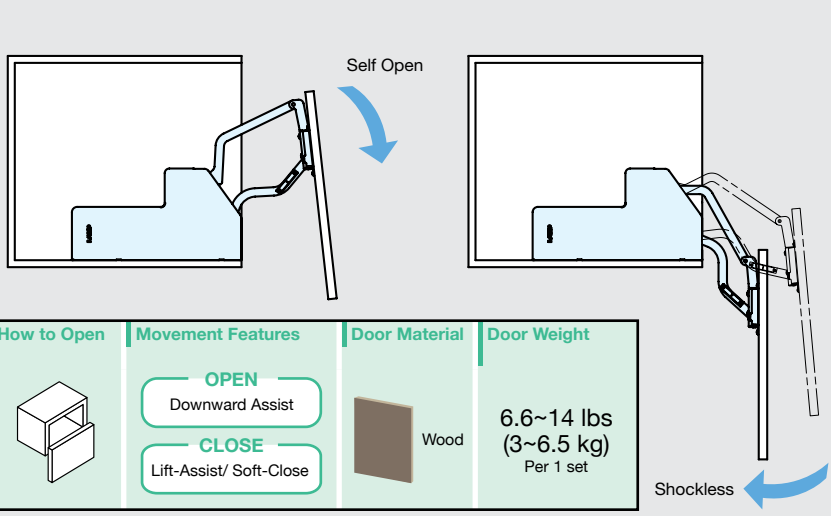
Body Cover (Sold separately)



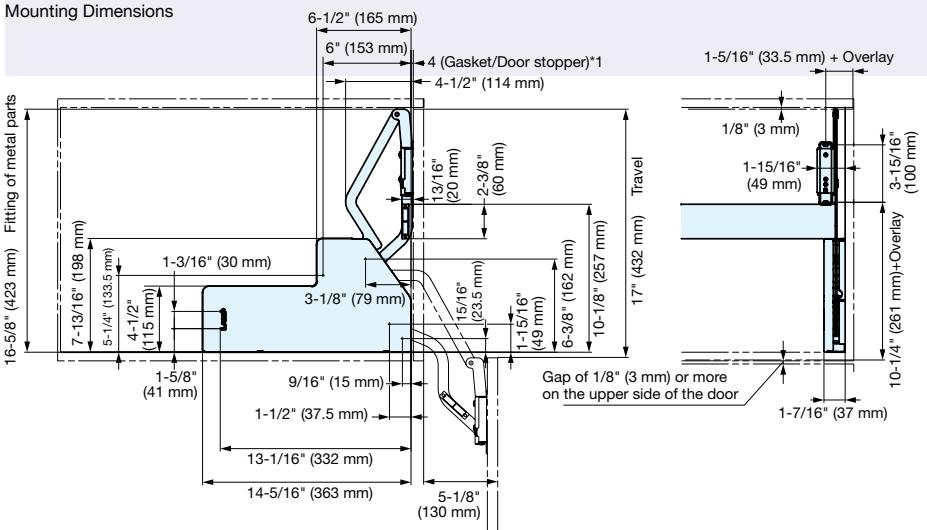
Application Example





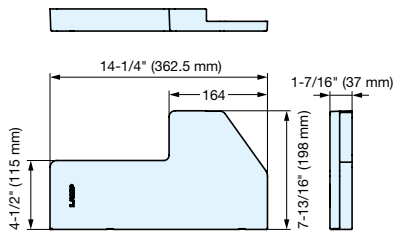


Mounting Dimensions

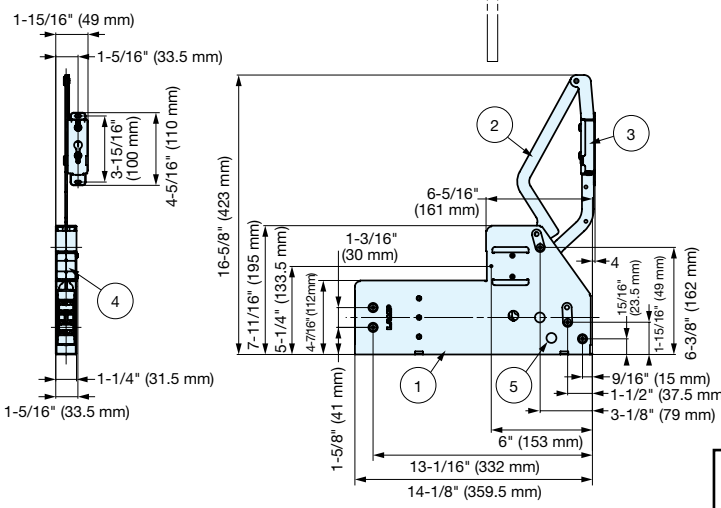


*1: If not using a gasket/door stopper, please shift the body 3/16" (4 mm) towards the back panel.
*2: The maximum door protrusion when opening and closing is approximately (250 mm).
*3: Total travel of the door is 17" (432 mm).

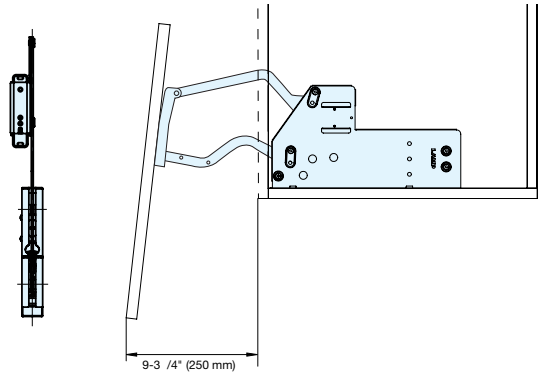
Body Cover (Sold separately)



Body



Maximum Projection



How to Order

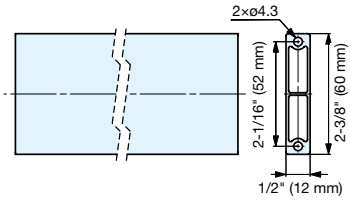
1) Select a body.
2) Select a body cover.
3) Select a Connecting Bar.

- The Connecting Bar comes in three lengths, for door widths of 23-5/8" (600 mm), 29-1/2" (750 mm), and 35-7/16" (900 mm).
- Use the standard length Connecting Bar when the door overlay on the side panel is 9/16" (15 mm). For door overlays exceeding 9/16" (15 mm), cut the Connecting Bar to length using the calculation formula provided below.

Length of the Connecting Bar = Door width - (Overlay x 2) - 1-3/8" (35 mm)
Or, please calculate as follows below.
Length of the Connecting Bar = Cabinet internal width - 1-3/8" (35 mm)

Connecting Bar (Sold separately)





Body Cover (Sold Seperately)

Item No.	Material	Color
SLUL-C-WT	ABS	White
SLUL-C-DGR		Dark Grey

This product is sold as 1 set. The order quantity is "1", which includes one piece of the left and right.

Item No.	Part Name	Material	Finish/ Color
①	Body	Steel (SPCC)	Nickel
②	Arm		
③	Mounting Plate		
④	Damper Holder	Polyacetal (POM)	Natural
⑤	Adjustment Screw	Steel (SWRM)	Bright Chromate

Body

Item No.	Material	Finish	Door Width	Door Height	Door Weight
SLDL-5	Steel	Nickel	Max. 35-7/16" (900 mm)	16-9/16" ~ 17-3/4" (420 ~ 450 mm)	6.6 ~ 11 lbs (3 ~ 5 kg)
SLDL-6					11 ~ 14 lbs (5 ~ 6.5 kg)

This product is sold as 1 set. The order quantity is "1", which includes one piece of the left and right.

Connecting Bar (Sold separately)

Item No.	Door Width	Material	Finish	Bar Length
SLUL-B535	23-5/8" (600 mm)	Aluminum Alloy	Anodized	21-1/16" (535 mm)
SLUL-B685	29-1/2" (750 mm)			27" (685 mm)
SLUL-B835	35-7/16" (900 mm)			32-7/8" (835 mm)

SLD

VERTICAL SWING DOWN MECHANISM



- Unique swing down mechanism provides a lift-assist feature to help open/close the doors easily & softly.
- Holds the door at the open position.
- Sleek, compact design provides maximum access.
- Easy installation.
- Adjustable arm mounting plate.
- Successfully passed for 30,000 open/close private cycle tests.

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

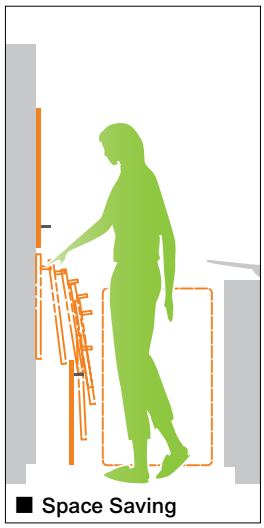


VERTICAL SWING DOWN MECHANISM

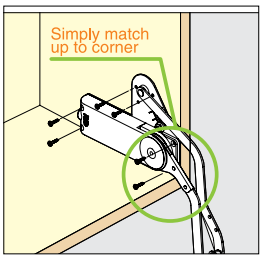
3.5×15 STEEL Lapcon **SLD**



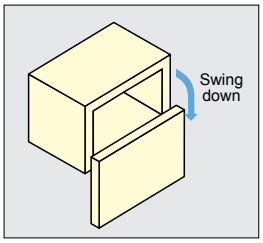
- Unique swing down mechanism will hold doors at the open position.
- Sleek & compact design.
- Easy installation.
- Adjustable arm mounting plate.
- Patented LAPCON technology provides a smooth and quiet motion.
- Successfully passed 30,000 open/close private cycle tests.
- Recommended Door Size and Weight:
  - Width, 23-5/8"~35-7/16" (600~900 mm)
  - Height, 14-1/8"~15-3/4" (360~400 mm)
  - Weight, 6.6~13.2 lbs (3~6 kg)

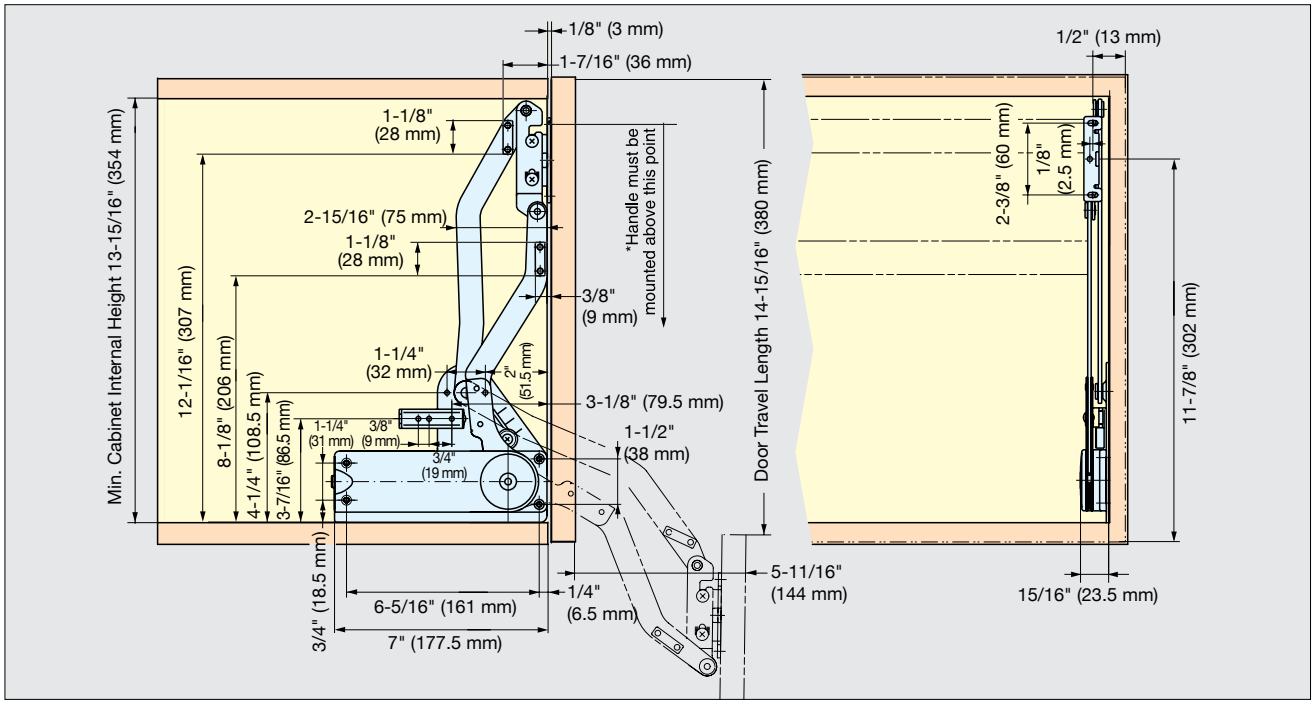


■ Space Saving



■ Easy Installation





Material	Finish/Color
Steel	Nickel
Plastic	Grey

Item No	Door Weight	Box (set)	Carton (set)
SLD-3	6.6~8.8 lbs (3~4 kg)	5	50
SLD-4	8.8~11.0 lbs (4~5 kg)		
SLD-5	11.0~13.2 lbs (5~6 kg)		

Guide Bar Length

Door Type	Cabinet Width	
	23-5/8" (600 mm)	35-7/16" (900 mm)
Solid Wood Door	21-1/16" (535 mm)	32-7/8" (835 mm)
Frame Door	21-3/4" (551 mm)	33-1/2" (851 mm)

*SLUB-835 (835 mm (32-7/8")) included unless specified.

HBFN

HORIZONTAL BI-FOLDING DOOR MECHANISM



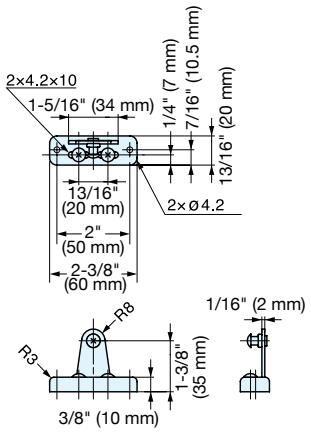


- HBFN's unique bi-fold door mechanism will assist in opening and closing doors in a smooth motion.
- The mechanism is compact, with no tracks or guides.
- Easy installation.
- Patented Lapcon technology offers smooth and quiet motion.
- Successfully passed 30,000 open/close private cycle tests.

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

MOUNTING PLATES FOR HBFN — HBFN-SZ





- Included with HBFN Series hardware.

Item No	Application	Weight (g)	Box (set)
HBFN-SZ	Wood Doors, Aluminum Frame Doors, Width 45 mm (1-3/4")	44	100

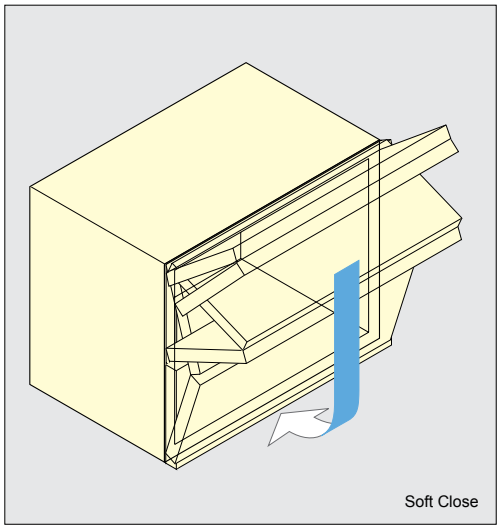
Part Name	Material	Finish/Color
Plates, Screws	Steel	Nickel
Bumper	-	Grey

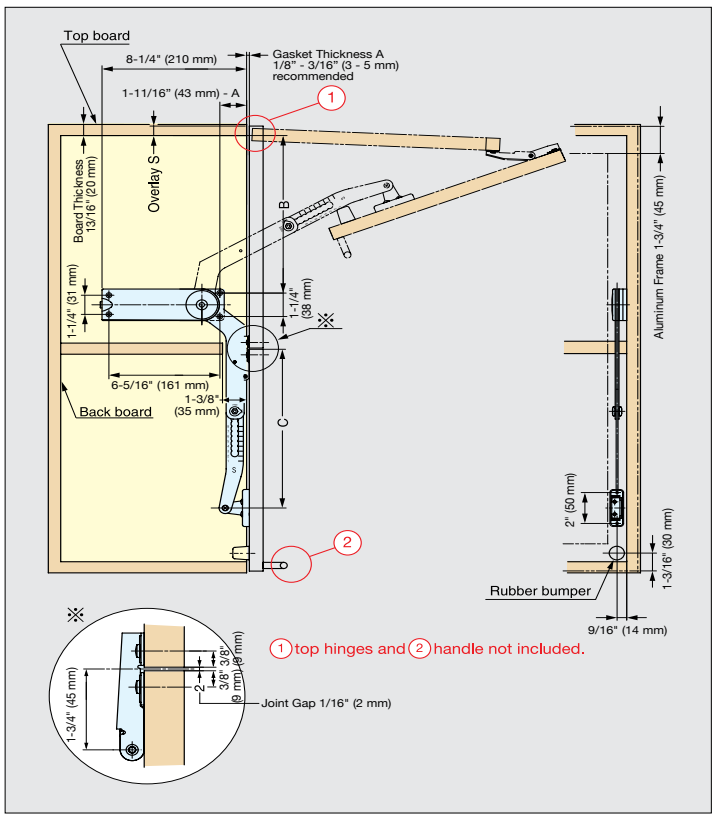
HORIZONTAL BI-FOLDING DOOR MECHANISM

3.5×15 STEEL Lapcon HBFN



- Unique new bi-fold door mechanism will assist in opening and closing doors in a 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, 17-3/4"~35-7/16" (450~900 mm)
  Height, 12-5/8"~14-9/16" (320~370 mm)/each door
  Weight, 5.5~12.1 lbs (2.5~5.5 kg)/each door





Type	Door Height	Opening Angle 90°			Opening Angle 105°		
		Arm Position	B	C	Arm Position	B	C
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)

S = Overlay (Top Board). () units in mm.

Item No	Door Height /door	Door Weight /door	Box (set)	Carton (set)
HBFN-2M	12-5/8"~14-9/16" (320~370 mm)	5.5~7.7 lbs (2.5~3.5 kg)	10	100
HBFN-3M		7.9~9.9 lbs (3.6~4.5 kg)		
HBFN-4M		9.9~12.1 lbs (4.6~5.5 kg)		

Material	Finish
Steel	Nickel
Plastic	Light Grey

OVN

SOFT CLOSING MECHANISM FOR OVER-THE-TOP FLIPPER DOORS

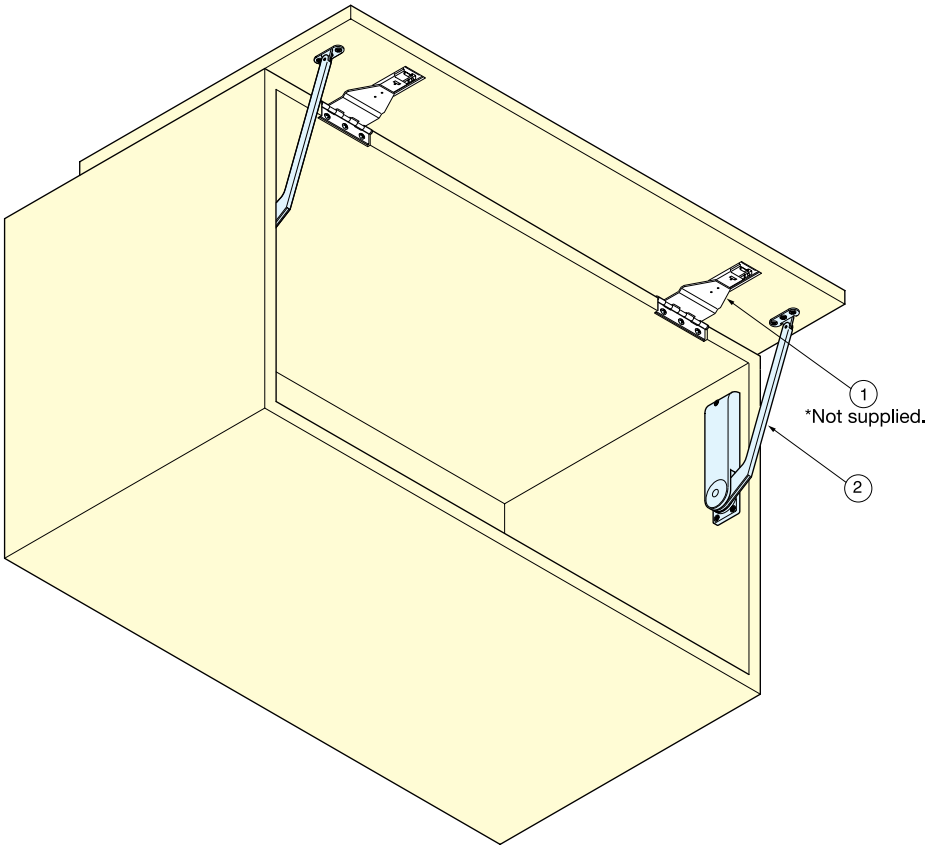


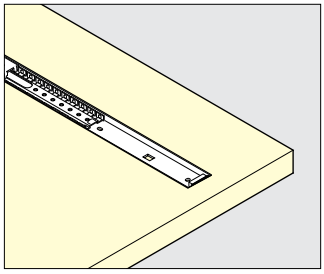
- Patented Lapcon technology offers smooth and quiet motion.
- Doors will not slam shut.
- Successfully passed 30,000 open/close private cycle tests.

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

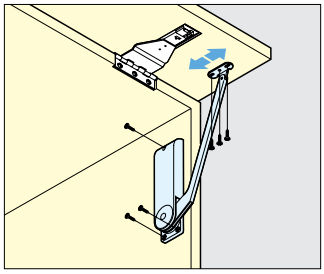


■ Installation





① Install ball bearing flipper slide rails. (Not supplied.)



② Mount the OVN unit to the side wall of the cabinet as illustrated in installation instructions provided with the product.

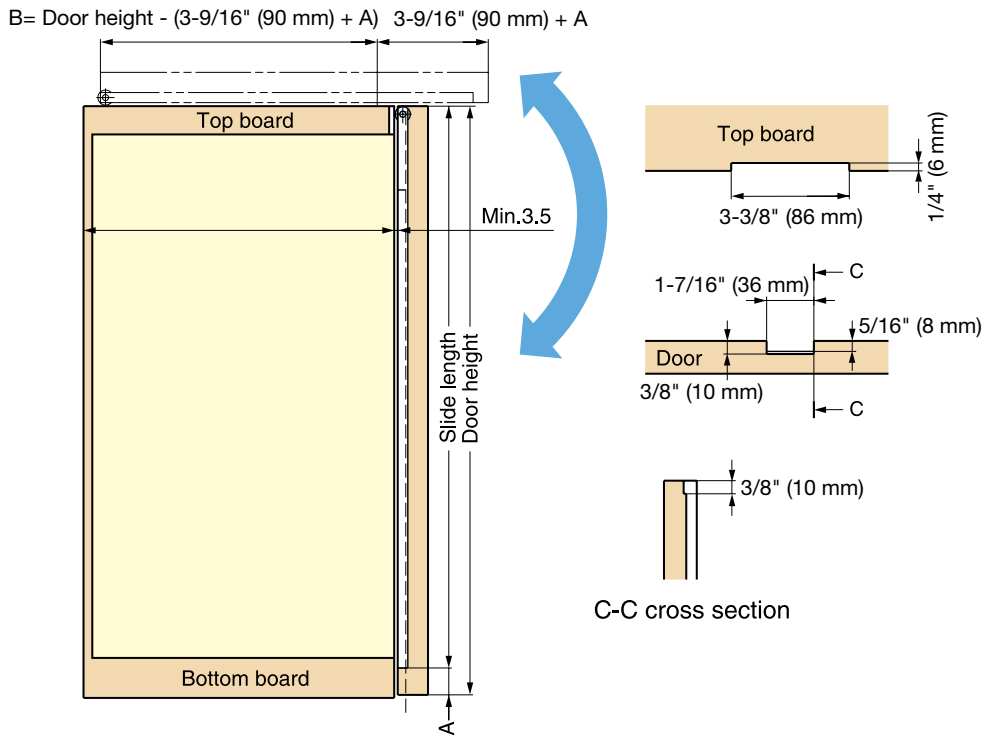
Recommended Door Size and Weight

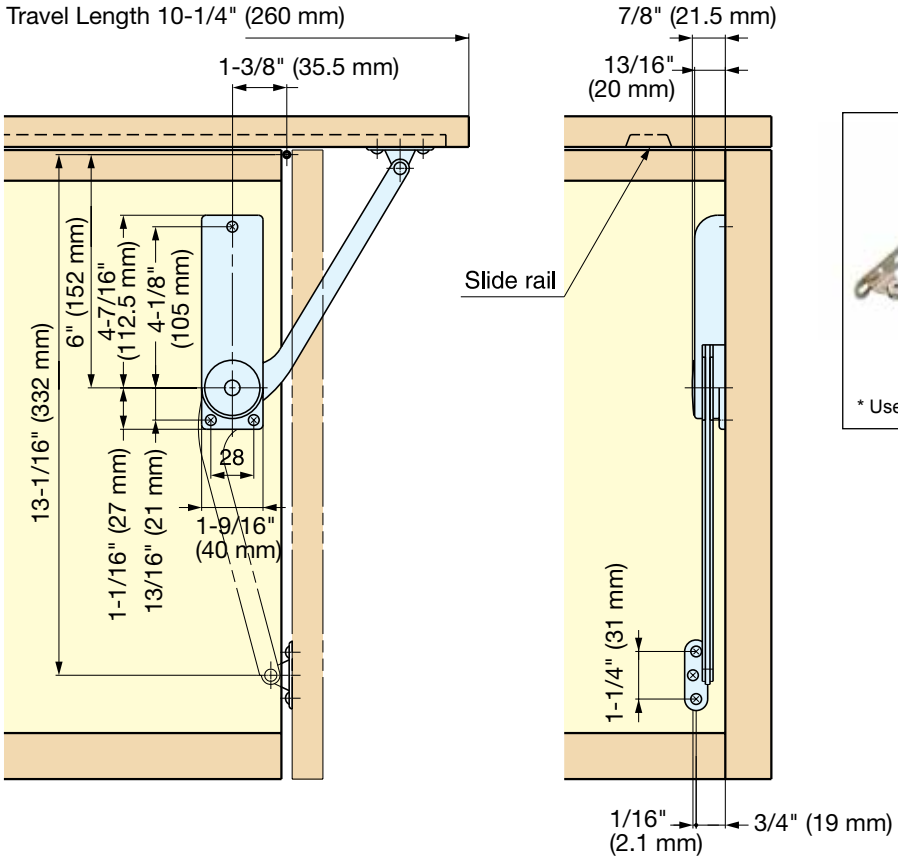
Item No.	Body Color	Door Weight	Door Height	Depth of Cabinet	Weight (g)	Box (pcs)	Carton (pcs)
OVN-3/BLK	Black (BLK)	6.6~11.0 lbs (3~5 kg)	Approx. 15~3/4" (400 mm)	13-3/4"~15-3/4" (350~400 mm)	220	40	400
OVN-5/BLK		11.0~15.4 lbs (5~7 kg)			240		

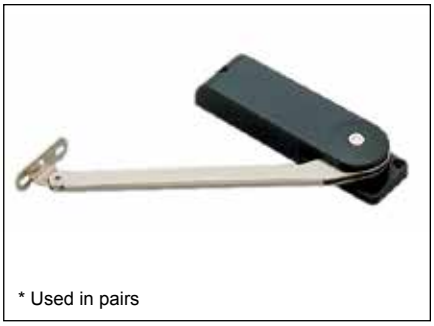
SOFT CLOSING MECHANISM

Lapcon OVN

■ Cabinet Preparation







Part Name	Material	Finish/Color
Housing	ABS	Black
Arm and Mounting Plate	Steel	Nickel





OV

SOFT CLOSING MECHANISM FOR OVER-THE-TOP FLIPPER DOORS

- Patented Lapcon technology offers smooth and quiet motions.
- Doors will not slam shut.
- Adjustable closing speed.
- Successfully passed 30,000 open/close private cycle tests. Designed to operate at room temperature 0°~40°c (32°~104F°).

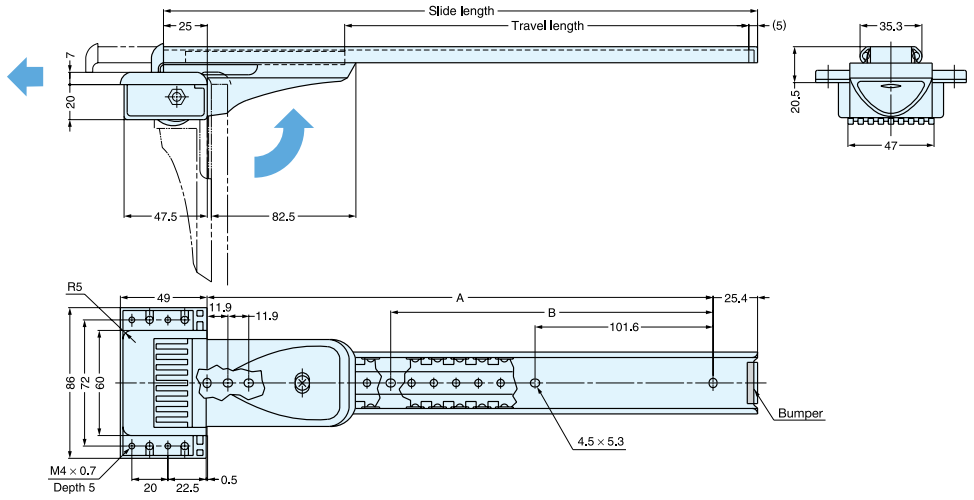


Used in pairs

Screws :
Flat Head Machine Screw (M4 × 26) *for wooden top board of 19~20 mm T - 8 pcs.
Binding Head Machine Screw (M4 × 8) *for metal top board of 1.2~1.5 mm T - 8 pcs.
Binding Head Tapping Screws (M4 × 10) for slides.

Note : For sheet metal cabinets, if the top board is thicker than 20 mm (25/32"), longer screws are required (top board thickness plus 6 mm). When the top board is wooden, additional screws are not needed.

*Bulk pack available.



Flipper Door Weight and Size

Item No	Door Weight	Torque Moment	Door Thickness: T	Door Width: W	Door Height: H
OV-1	6.6~11 lbs (3~5 kg)	55~85 lbs·in (60~100 kg·cm)	3/4" (19 mm) or 25/32" (20 mm)	27-9/16"~55-1/8" (700~1400 mm)	13-3/4"~17-3/4" (350~450 mm)

Material	Finish/Color
Steel, Zinc Alloy, Plastic	Chromate, Black

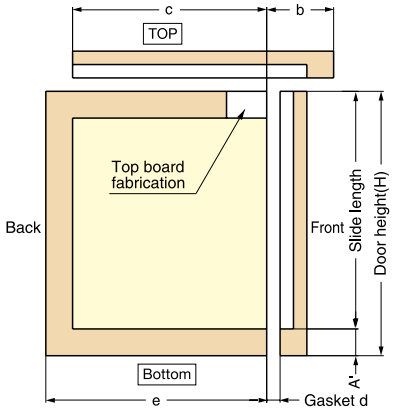
Item No.	Slide Length	Travel Length	A	B	Weight (g)		Box (pcs)	Carton (pcs)
OV-1-13	13" (330.2 mm)	8-13/16" (223.8 mm)	11" (279.4 mm)	7" (177.8 mm)	590	640	10	100
OV-1-14	14" (355.6 mm)	9-13/16" (249.2 mm)	12" (304.8 mm)	8" (203.2 mm)	610	660		
OV-1-15	15" (381 mm)	10-13/16" (274.6 mm)	13" (330.2 mm)	9" (228.6 mm)	630	680		
OV-1-16	16" (406.4)	11-13/16" (300 mm)	14" (355.6 mm)	10" (254 mm)	650	700		

SOFT CLOSING MECHANISM

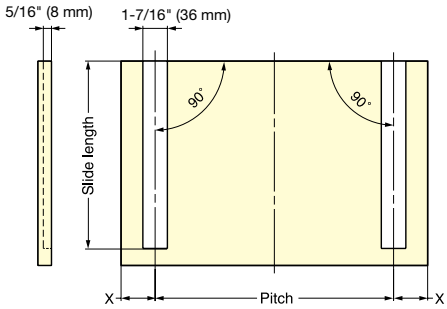
Lapcon OV

■ Cabinet Preparation

Cabinet Dimensions

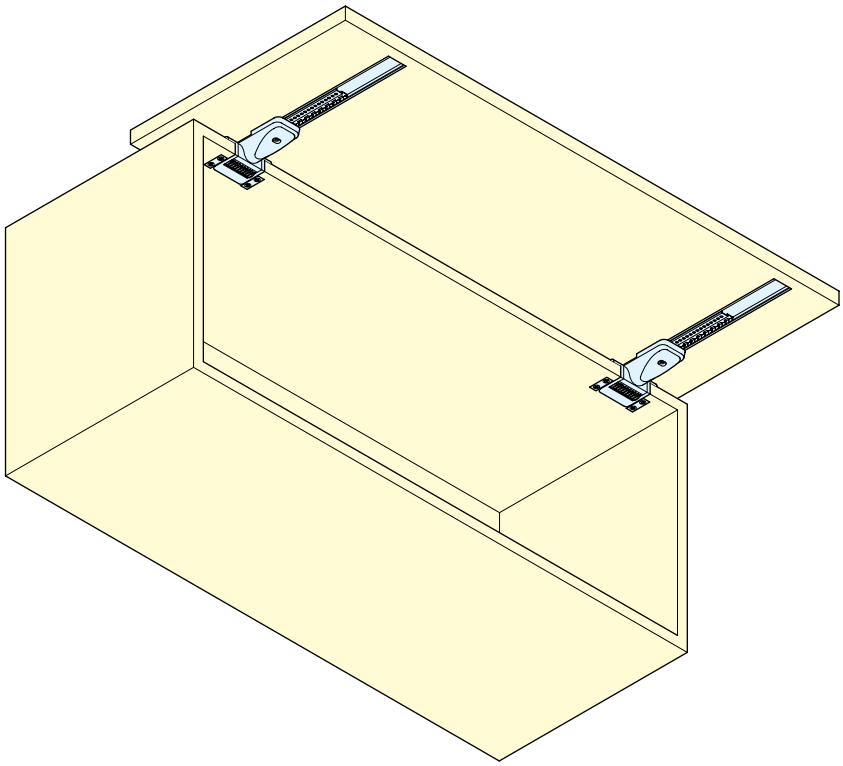


Door Fabrication

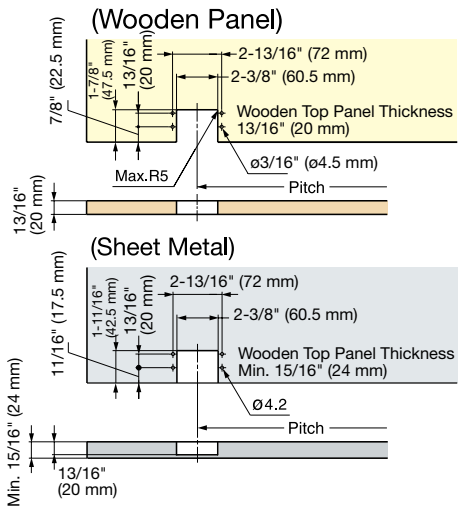


	b	c	d	e
Wooden Top Panel	A'+81.4	H-b	2.5	Min. c+7
Metal Top Panel	A'+86.4	H-b	7.5	Min. c+7

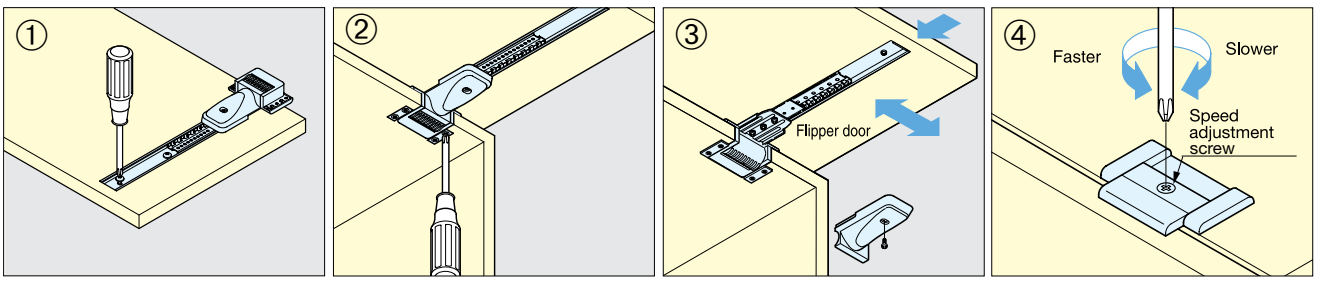
	X
Inset Application	80
Overlay Application	Side Board Thickness+80



Top Panel Fabrication



■ Installation



MINI-DOOR CLOSER (W/DAMPER)

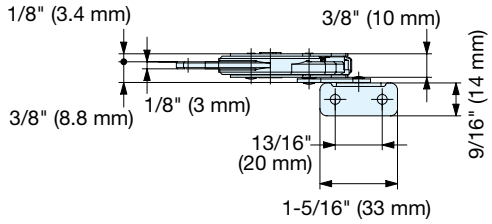
YMC

- Low profile door closer for small, horizontally swinging doors.
- Equipped with dampening mechanism for soft close.
- Stay will hold the door in 90° open position.
- Push the door to close. Once pushed, stay will gently pull the door and close.
- Thin body designed to be installed on top panel.
- Durable stainless steel construction.
- Handed: Specific left and right hand mounting.

*Recommended screws : M4

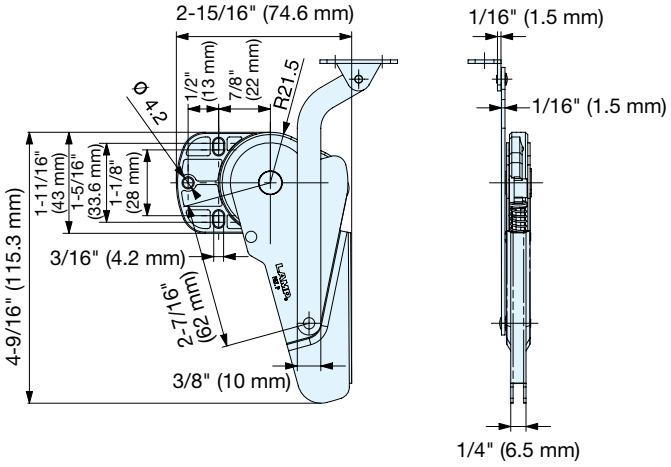


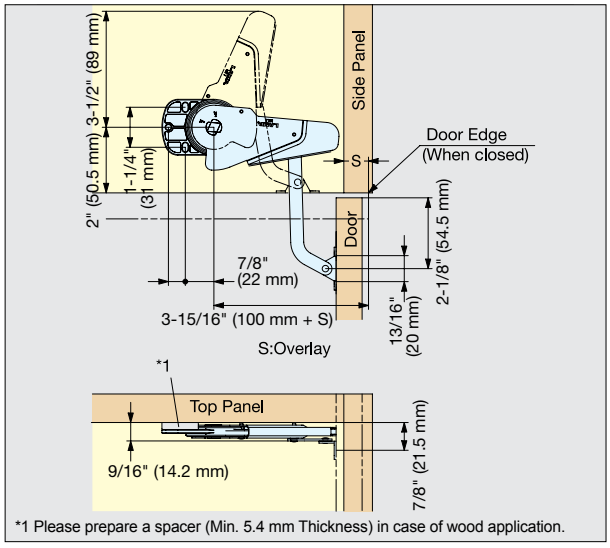
YMC-R





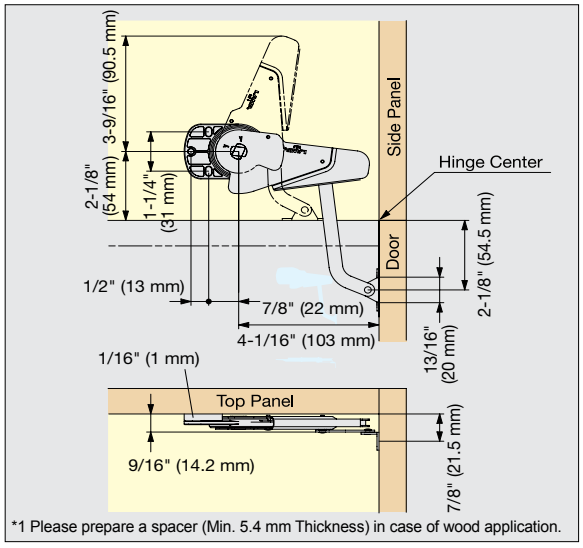
YMC-R model





*1 Please prepare a spacer (Min. 5.4 mm Thickness) in case of wood application.

Installation (With Concealed Hinge)



*1 Please prepare a spacer (Min. 5.4 mm Thickness) in case of wood application.

Installation (With Piano/Butt Hinge)

Item No.		Opening Angle	Door Weight	Door Width	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right						
YMC-L	YMC-R	0°~90°	0.66~1.54 lbs (0.3~0.7 kg)	Max. 11-13/16" (300 mm)	103	50	500

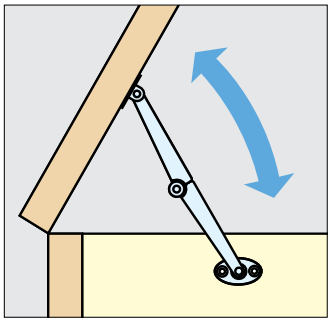
Material	Finish/Color
PBT, 304 Stainless Steel	Grey, Plain

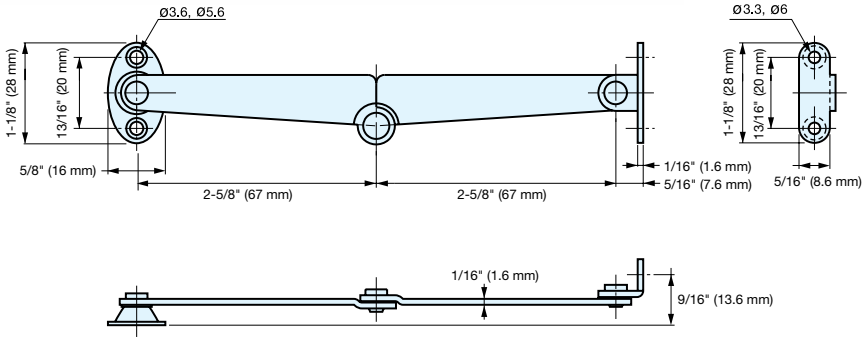
LID STAY

RoHS compliant NO SCREW **S-6, S-16**



- Not load bearing keeps lids from over extending.
- Can be installed individually or in pairs.
- Handed: Specific left and right hand mounting.





Item No.		L_1	L_2	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right					
S-6L	S-6R	2-1/16" (53 mm)	2-1/16" (53 mm)	20	100	1000
S-16R	S-16L	2-5/8" (67 mm)	2-5/8" (67 mm)	31		

Material	Finish
Steel/Brass/Nylon (washer)	Chrome

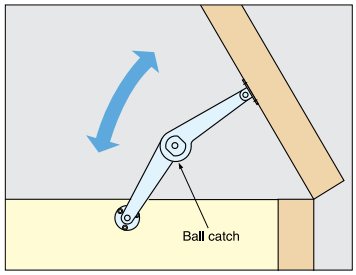
LID STAY (W/CATCH)

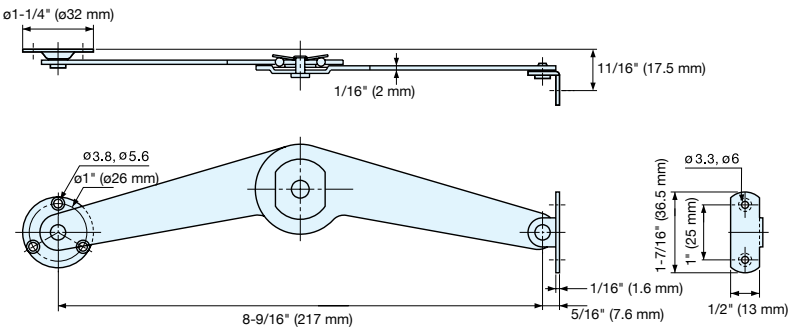
RoHS compliant NO SCREW **S-20**



(Left)

- Lid stay with ball catch for lightweight doors.
- Catch automatically holds lid in opened position.
- Can be installed individually or in pairs.
- Handed: Specific left and right hand mounting.





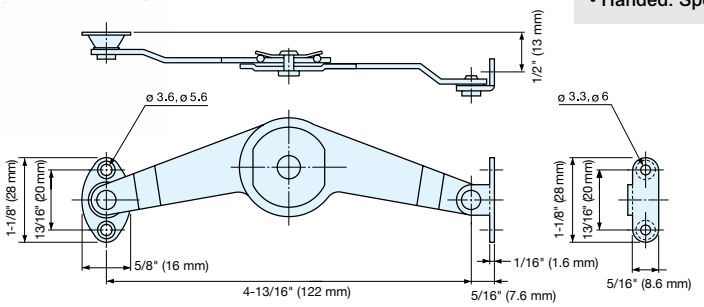
Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-20L	S-20R	125	40	160

Material	Finish
Steel, Brass, Nylon (washer)	Chrome

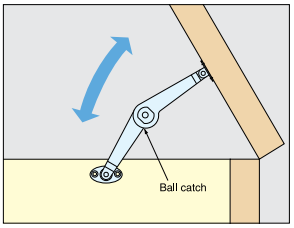
LID STAY (W/CATCH) S-21



(Left)



- Lid stay with ball catch for lightweight doors.
- Catch automatically holds lid in opened position.
- Can be installed individually or in pairs.
- Handed: Specific left and right hand mounting.



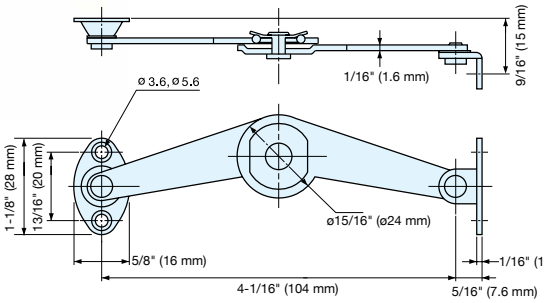
Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-21L	S-21R	49	50	500

Material	Finish
Steel, Brass, Nylon (washer)	Chrome

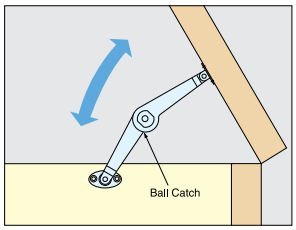
LID STAY (W/CATCH) S-23



(Left)



- Lid stay with ball catch for lightweight doors.
- Catch automatically holds lid in opened position.
- Can be installed individually or in pairs.
- Handed: Specific left and right hand mounting.

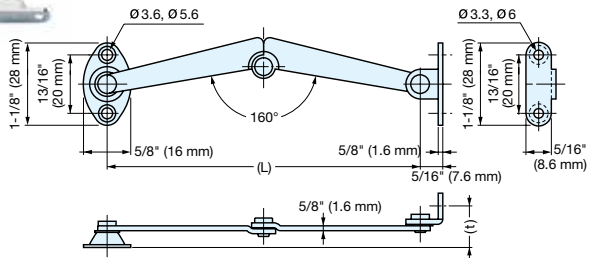


Item No.		Weight (g)	Box (pcs)	Carton (pcs)
Left	Right			
S-23L	S-23R	33	50	500

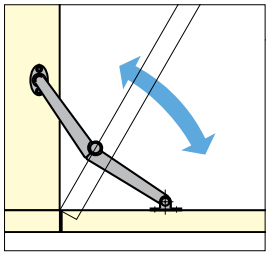
Material	Finish
Steel, Brass, Nylon (washer)	Chrome

LID STAY S-24, S-25, S-27





- Keeps lids from over extending.
- Can be installed individually or in pairs.
- Handed: Specific left and right hand mounting.



Item No.		L	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right				
S-24L	S-24R	4-1/8" (105.5 mm)	21	100	1000
S-25L	S-25R	6-7/16" (163 mm)	35	60	600
S-27L	S-27R	5-1/4" (133 mm)	31	60	600

Material	Finish
Steel, Brass, Nylon (washer)	Chrome

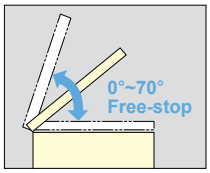
TORQUE LID STAY (FREE STOP)

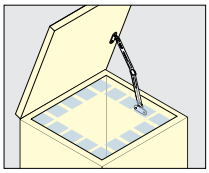
STAINLESS 430 STEEL | NO SCREW

S-100T30



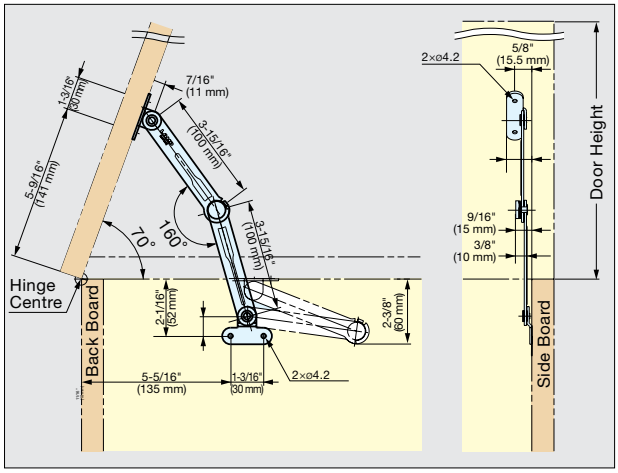






- Friction torque lid stay holds lid open at any position.
- Narrow profile for unobtrusive installation.
- Torque Calculation :
  Torque = Door Height × 1/2 × Door Weight
- Left- and Right-handed models available.
- Can be used individually or in pairs.

Note : 1) Not recommended for lids that will be continuously opened and closed.
2) Do not lubricate.



Item No.	Handing	Torque per piece	Weight (g)	Box (pcs)	Carton (pcs)
S-100T30R	Right	26.5 lbs·in ±20% (30.6 kg·cm ±20%)	100	30	120
S-100T30L	Left				

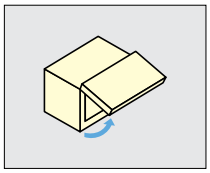
Part	Material	Finish
Body, Base & Bracket	430 Stainless Steel	Plain
Press washer & Pin	Phosphor Bronze	
Washer	Steel	

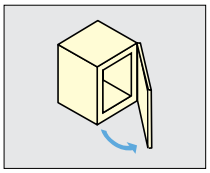
TORQUE LID STAY (FREE STOP)

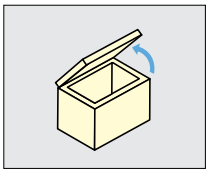
STAINLESS 430 STEEL | NO SCREW

S-52T15



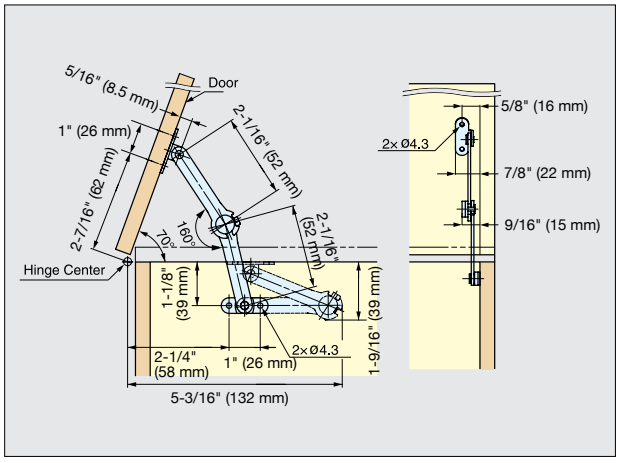






- Friction torque lid stay holds lid open at any position.
- Narrow profile for unobtrusive installation.
- Left- and Right-handed models available.
- Can be used individually or in pairs.

Note : 1) Not recommended for lids that will be continuously opened and closed.
2) Do not lubricate.



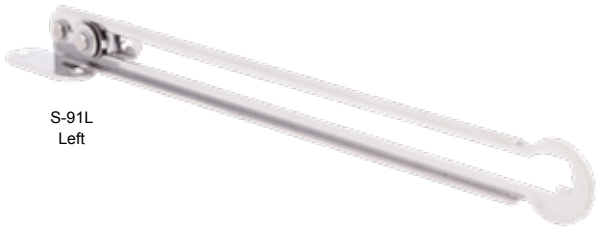
Item No.	Handing	Torque per piece	Weight (g)	Box (pcs)	Carton (pcs)
S-52T15R	Right	13.3 lbs·in ±20% (15.3 kg·cm ±20%)	40	25	250
S-52T15L	Left				

Part	Material	Finish
Body, Base & Bracket	430 Stainless Steel	Plain
Press washer & Pin	Phosphor Bronze	
Washer	Steel	

LID STAY

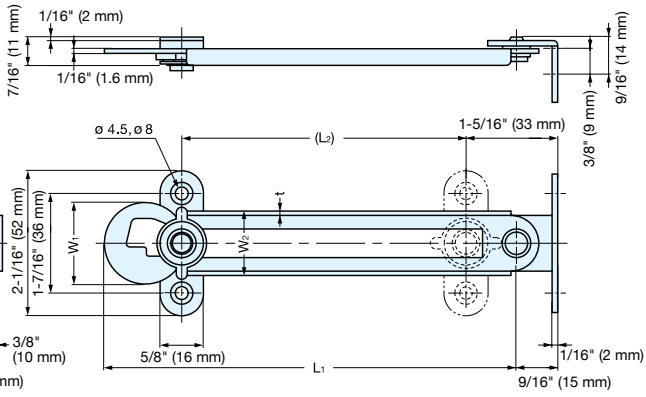
RoHS compliant | STAINLESS 304 STEEL | LOAD CAPACITY 30~40 kg 66~88 lbs | NO SCREW

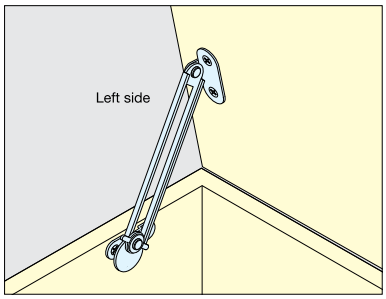
S-91, 92, 93



S-91L
Left

- Automatically holds lid in opened position.
- Lift up lid to release.
- Can be installed individually or in pairs.
- Handed : Specific left and right hand mounting.





Material	Finish
304 Stainless Steel	Polished

Item No.		L_1	(L_2)	W_1	W_2	t	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right									
S-91L	S-91R	10-15/16" (277 mm)	9-1/16" (230 mm)	1-3/16" (30 mm)	15/16" (24 mm)	1/16" (2 mm)	88 lbs (40 kg)	120	100	1000
S-92L	S-92R	7-13/16" (198 mm)	6" (152 mm)	1-1/8" (28 mm)	15/16" (23 mm)	1/16" (1.5 mm)		85	30	180
S-93L	S-93R	5-15/16" (150 mm)	4-1/8" (105 mm)				66 lbs (30 kg)	75	60	240

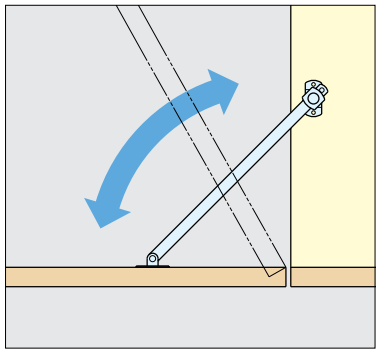
LID STAY

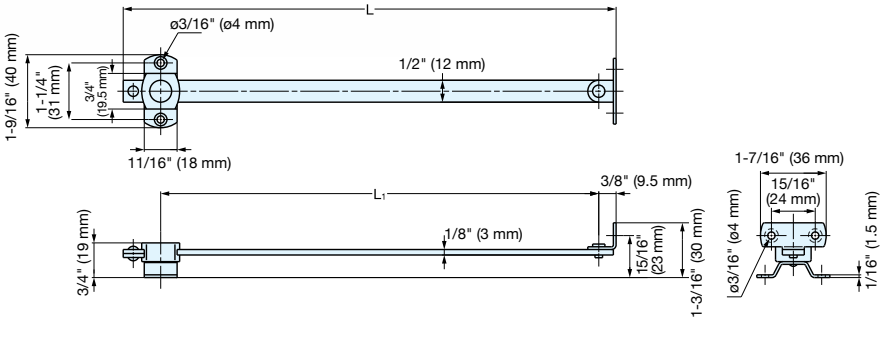
NSF COMPONENT | RoHS compliant | STAINLESS 304 STEEL | LOAD CAPACITY 10~13 kg 22~28.5 lbs | NO SCREW

HS



- For downward-opening flap doors.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.





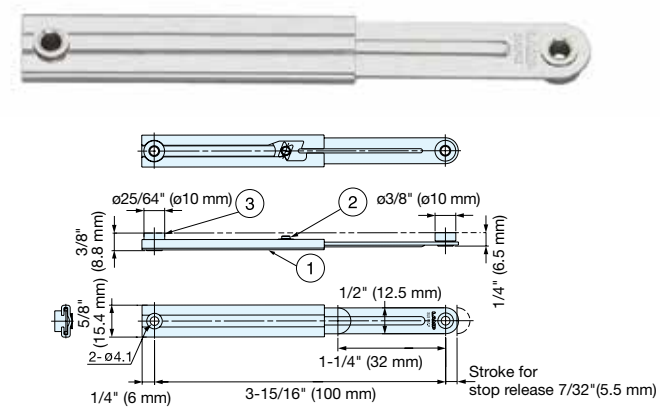
Material	Finish/Color
304 Stainless Steel	Satin
Polyamide	White

Item No.	L	L_1	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
HS-180	8-1/4" (210 mm)	7-1/16" (180 mm)	22.0 lbs (10 kg)	80	20	220
HS-210	9-7/16" (240 mm)	8-1/4" (210 mm)	26.5 lbs (12 kg)	90		
HS-240	10-5/8" (270 mm)	9-7/16" (240 mm)	28.5 lbs (13 kg)	100		

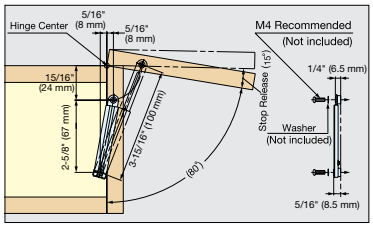
ULTRA MINI LID STAY

RoHS compliant | STAINLESS 304 STEEL | STAINLESS 303 STEEL | LOAD CAPACITY 6 kg 13.2 lbs | TEST 15 P.698 | NO SCREW

L-100S



- Holds lid or panel in opened position.
- Lift up lid to release.
- Non-Handed : Can be installed on left or right side.
- Compact design.
- Can be installed individually or in pairs.
- Designed for use with L-S-BT mounting brackets, sold separately.



*Lid stay must be installed parallel to the sidewall.

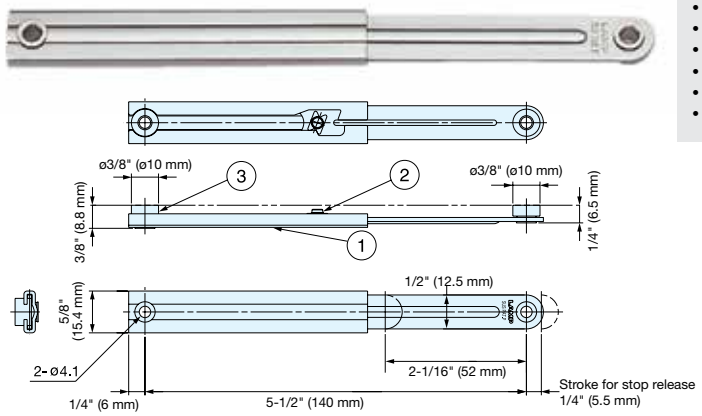
No.	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Polished
②	Washer	Polyamide	-
③	Bracket	304 Stainless Steel	-

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

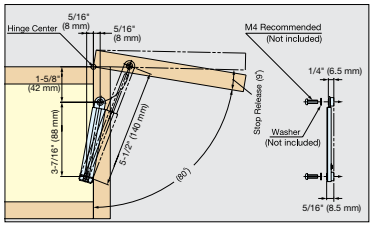
ULTRA MINI LID STAY

RoHS compliant | STAINLESS 304 STEEL | STAINLESS 303 STEEL | LOAD CAPACITY 6 kg 13.2 lbs | TEST 15 P.698 | NO SCREW

L-140S



- Holds lid or panel in open position.
- Lift up lid to release.
- Non-Handed : Can be installed on left or right side.
- Compact design.
- Can be installed individually or in pairs.
- Designed for use with L-S-BT mounting brackets, sold separately.



*Lid stay must be installed parallel to the sidewall.

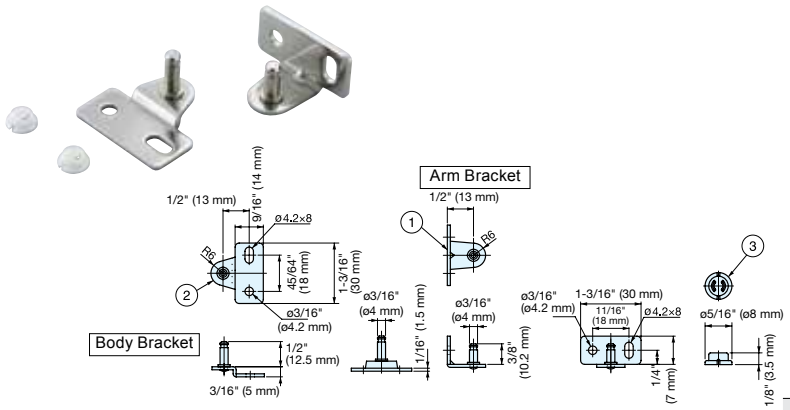
No.	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Polished
②	Washer	Polyamide	-
③	Bracket	304 Stainless Steel	-

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

MOUNTING BRACKET

RoHS compliant | STAINLESS 304 STEEL | NO SCREW

L-S-BT



- Optional brackets for L-100S and L-140S stays.
- Brackets for arm and body sold as set.
- Insert the retainer and bracket firmly into the stay.
  *Do not re-use the bracket. Retainer may become loose once taken off from stay.

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

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
L-S-BT	20	30	300

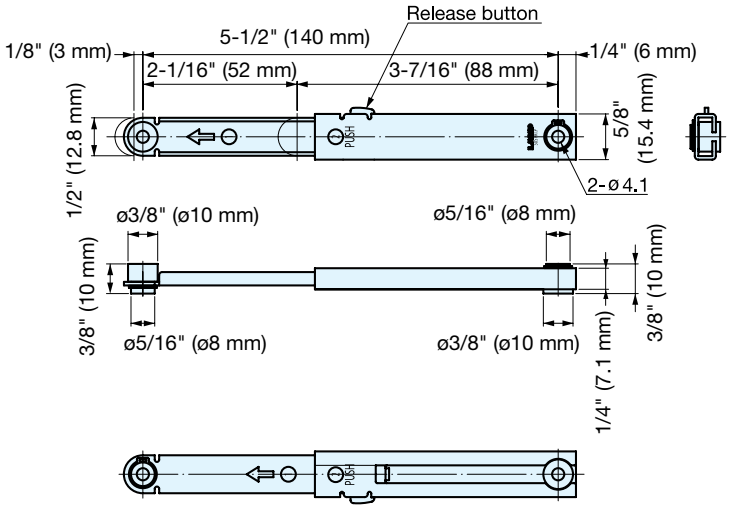
MINI LID STAY (W/LOCK)

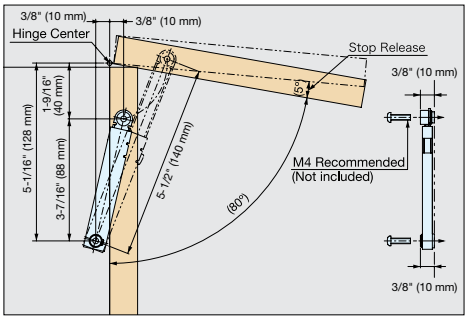
RoHS compliant | STAINLESS 304 STEEL | LOAD CAPACITY 15 kg 33 lbs | NO SCREW

L-SL140

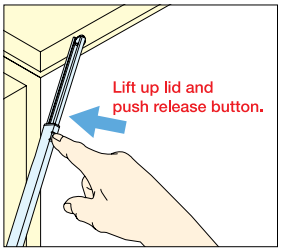


- Automatically locks lid/panel when fully opened.
- Push button to release.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Mounting brackets (L-SL140-BT) available separately.





*Lid stay must be installed parallel to the sidewall.



Item No.	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
L-SL140	33 lbs (15 kg)	40	30	300

Material	Finish
304 Stainless Steel	Polished

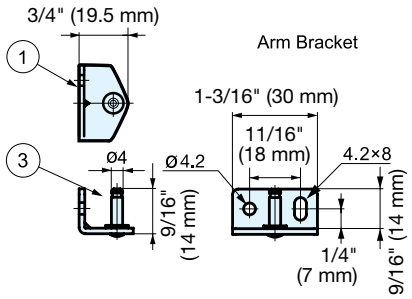
MOUNTING BRACKET

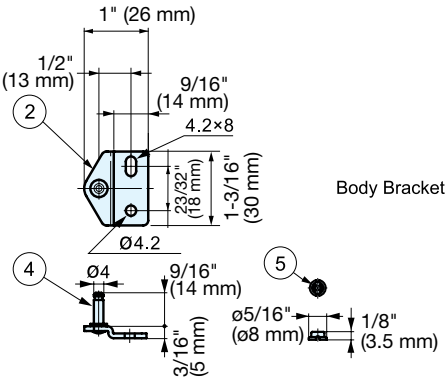
RoHS compliant | NO SCREW

L-SL140-BT



- Optional brackets for L-SL140 stay.
- Insert the retainer and bracket firmly into the stay.
  * Do not re-use the bracket. Retainer may become loose once taken off from stay





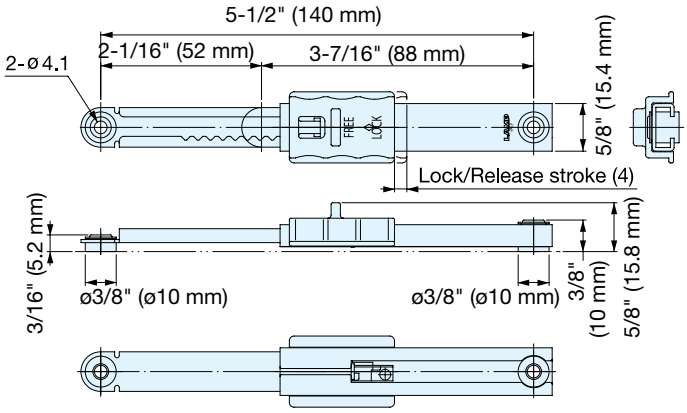
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
L-SL140-BT	28	30	300

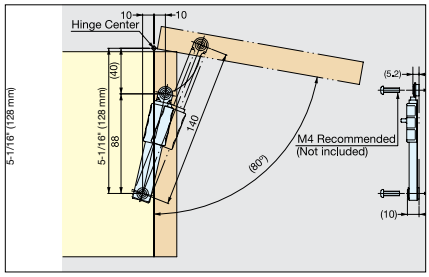
No.	Part Name	Material	Finish
①	Arm Bracket	304 Stainless Steel	Polished
②	Body Bracket		
③	Arm Bracket Pin	303 Stainless Steel	Plain
③	Body Bracket Pin		
⑤	Retainer	Polyacetal	Black

MINI LID STAY (W/LOCK) L-FS140

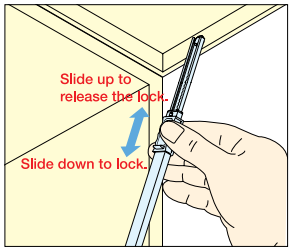


- Locks lid/panel in multiple positions by manually sliding lock lever.
- Slide lever to lock/unlock.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Mounting brackets (L-FS140-BT) available separately.





*Lid stay must be installed parallel to the sidewall.



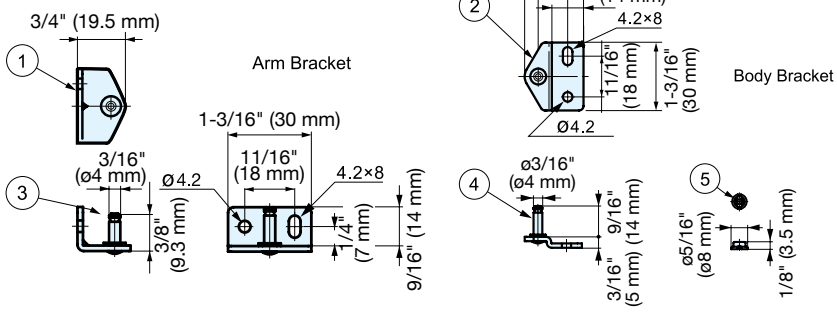
Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
L-FS140	6 (13.2 lbs)	50	20	200

Material	Finish
304 Stainless Steel	Polished
Polyacetal	Dark Grey

MOUNTING BRACKET L-FS140-BT



- Optional brackets for L-FS140 stay.
- Insert the retainer and bracket firmly into the stay.
  * Do not re-use the bracket. Retainer may become loose once taken off from stay



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
L-FS140-BT	27	40	400

No.	Part Name	Material	Finish
①	Arm Bracket	304 Stainless Steel	Polished
②	Body Bracket		
③	Arm Bracket Pin	303 Stainless Steel	Plain
④	Body Bracket Pin		
⑤	Retainer	Polyacetal	Black

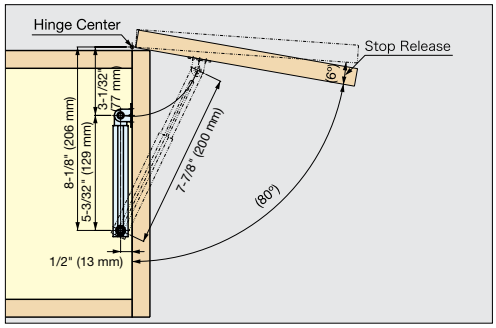
LOW PROFILE LID STAY

RoHS compliant | STAINLESS 304 STEEL | STAINLESS 303 STEEL | LOAD CAPACITY 15 kg 33 lbs | TEST 15 P.698 | NO SCREW

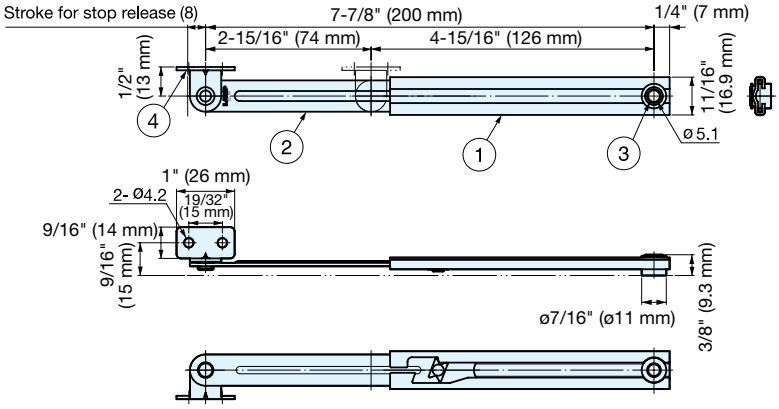
L-200P



- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Mounting brackets (L-200-BT) available separately.



*Lid stay must be installed parallel to the sidewall.



Item No.	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
L-200P	33 lbs (15 kg)	65	30	300

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

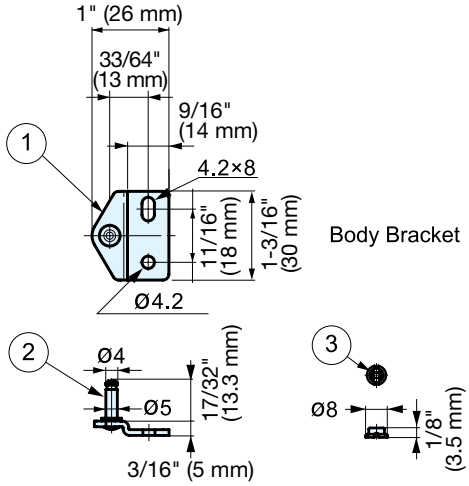
MOUNTING BRACKET

RoHS compliant | NO SCREW

L-200P-BT



- Optional brackets for L-200P stay.
- Insert the retainer and bracket firmly into the stay.
  * Do not re-use the bracket. Retainer may become loose once taken off from stay



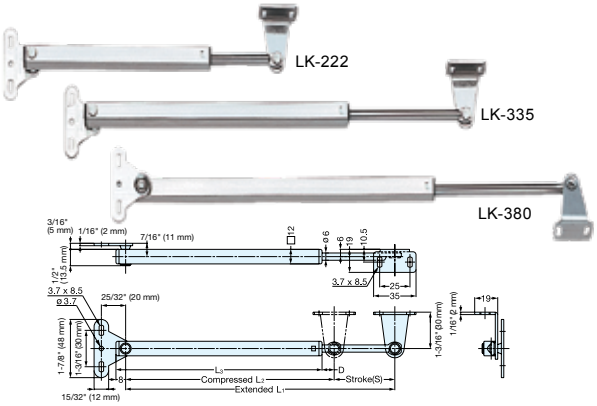
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
L-200P-BT	14	30	300

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

LID STAY

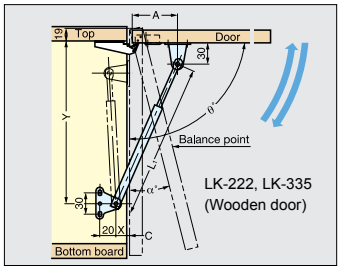
NSF COMPONENT | STAINLESS 304 STEEL | STAINLESS 303 STEEL | NO SCREW

LK

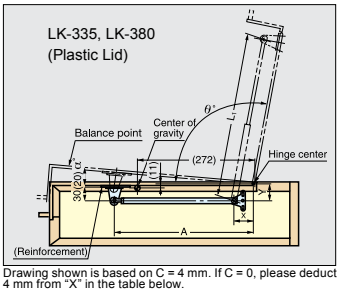


- Spring mechanism assists lifting door and holds in open position.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.

Mounting Example (1)



Mounting Example (2)



Drawing shown is based on C = 4 mm. If C = 0, please deduct 4 mm from "X" in the table below.

Material	Finish
303, 304 Stainless Steel	Satin

Door weight is based on door height : LK-222 = 350 mm, LK-335 = 500 mm

Item No.	Max.Door Weight (kg)	Door Opening (θ°)	- (α°)	L1	A	X	Y
LK-222 (2 pcs)	5.5 lbs (2.5 kg)	90	17	8-3/4" (222 mm)	2-3/4" (70 mm)	13/16" (20 mm)	9-1/4" (235 mm)
	5.9 lbs (2.7 kg)	85	15	8-3/4" (222 mm)	2-15/16" (75 mm)		9-7/16" (240 mm)
	6.6 lbs (3 kg)	75	14	8-3/4" (222 mm)	3-3/8" (85 mm)		9-7/8" (251 mm)
LK-335 (2 pcs)	6.8 lbs (3.1 kg)	90	14	13-3/16" (335 mm)	4-1/16" (104 mm)		13-9/16" (344 mm)
	7.2 lbs (3.3 kg)	85	12	13-3/16" (335 mm)	4-7/16" (112 mm)		13-13/16" (351 mm)
	8.3 lbs (3.8 kg)	75	11	13-3/16" (335 mm)	5-1/8" (127 mm)		14-1/2" (368 mm)

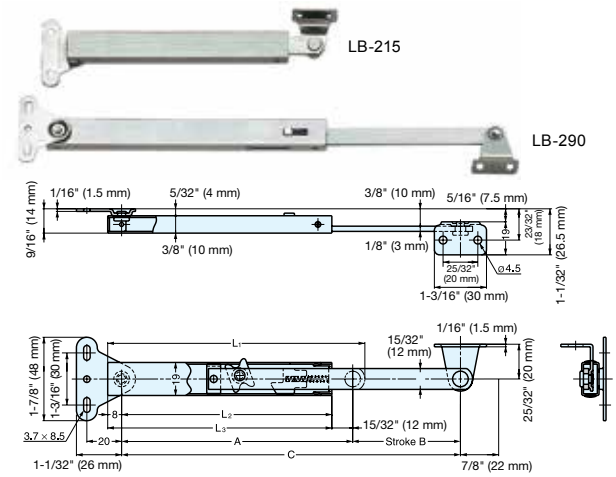
Item No.	Max.Door Weight (kg)	Door Opening (θ°)	- (α°)	L1	A	X	Y
LK-335 (2 pcs)	5.5 lbs (2.5 kg)	90	0.5	13-3/16" (335 mm)	11-5/8" (295 mm)	1-3/4" (45 mm)	1-1/2" (38 mm)
	6.6 lbs (3 kg)	90	14.0				1-1/2" (38 mm)
	7.2 lbs (3.3 kg)	85	12.0				1-3/4" (44 mm)
LK-380 (2 pcs)	5.5 lbs (2.5 kg)	110	8.0	14-31/32" (380 mm)	13" (330 mm)	1-9/16" (40 mm)	1-7/16" (36 mm)
	6.6 lbs (3 kg)	90	3.5		13-3/16" (335 mm)	2-5/32" (55 mm)	1-3/4" (44 mm)
	8.8 lbs (4.0 kg)	90	4.0		12-5/8" (320 mm)	1-5/8" (41 mm)	2-5/16" (59 mm)
	9.4 lbs (4.3 kg)	80	7.5		13-3/16" (335 mm)	2-3/16" (56 mm)	2-3/8" (60 mm)

Item No.	L1	L2	L3	S	D	Extended Force	Compressed Force	Weight (g)	Box (pcs)	Carton (pcs)
LK-222	8-3/4" (222 mm)	6-3/4" (172 mm)	6-11/16" (170 mm)	2" (50 mm)	3/8" (10 mm)	7.0 lbs (3.2 kg)	15.4 lbs (7 kg)	145	25	150
LK-335	13-3/16" (335 mm)	9-13/16" (250 mm)	9-3/8" (238 mm)	3-3/8" (85 mm)	13/16" (20 mm)	8.3 lbs (3.8 kg)	18.7 lbs (8.5 kg)	185		
LK-380	14-15/16" (380 mm)	11" (280 mm)	10-9/16" (269 mm)	3-15/16" (100 mm)	3/4" (19 mm)	7.9 lbs (3.6 kg)	18.7 lbs (8.5 kg)	205		

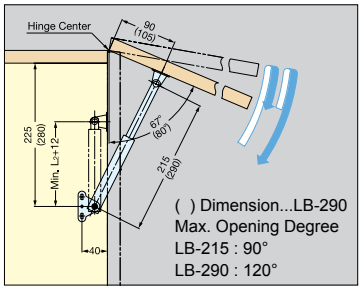
LID STAY

LOAD CAPACITY 15 kg 33 lbs | TEST 15 P.698

LB-215, 290



- Holds lid or panel in fully opened position.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Load Capacity : 33 lbs (15 kg)/each.



Material	Finish
Zinc Alloy/304 Stainless Steel	Chrome/Satin

Item No.	L1	L2	L3	A	B	C	Door Height	Weight (g)	Box (pcs)	Carton (pcs)
LB-215	6-5/8" (168 mm)	5-9/16" (141 mm)	5-7/8" (149 mm)	6" (153 mm)	2-7/16" (62 mm)	8-7/16" (215 mm)	10-1/4"~13-3/142" (260~350 mm)	140	10	100
LB-290	8-1/16" (205 mm)	7" (178 mm)	7-5/16" (186 mm)	7-1/2" (190 mm)	3-15/16" (100 mm)	11-7/16" (290 mm)	13-3/8"~19-11/16" (340~500 mm)	160		

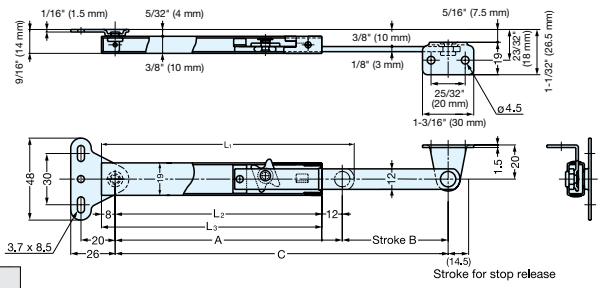
LID STAY

RoHS compliant | STAINLESS 304 STEEL | LOAD CAPACITY 15 kg 33 lbs | TEST 15 P.698 | NO SCREW

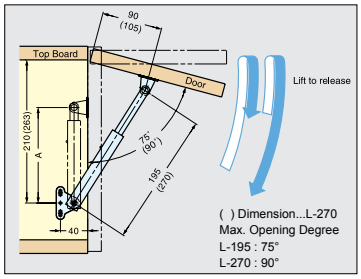
L



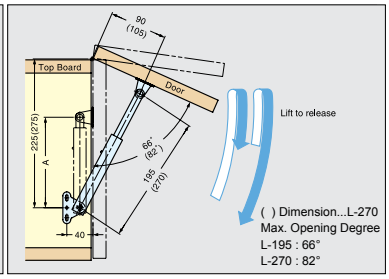
- Holds lid or panel in fully opened position.
- Lift up lid to release.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Load Capacity : 33 lbs (15 kg)/each.



With Concealed Hinge



With Piano/Butt Hinge



*Lid stay must be installed parallel to the sidewall.

Material	Finish
304 Stainless Steel	Satin

Item No.	L1	L2	L3	(A)	(B)	C	Door Height	Weight (g)	Box (pcs)	Carton (pcs)
L-195	5-13/16" (148 mm)	4-3/4" (121 mm)	5-1/16" (129 mm)	5-1/4" (133 mm)	2-7/16" (62 mm)	7-11/16" (195 mm)	9-13/16"~13-3/4" (250~350 mm)	125	10	100
L-270	7-1/4" (185 mm)	6-7/32" (158 mm)	6-9/16" (166 mm)	6-11/16" (170 mm)	3-15/16" (100 mm)	10-5/8" (270 mm)	12-5/8"~19-11/16" (320~500 mm)	150		

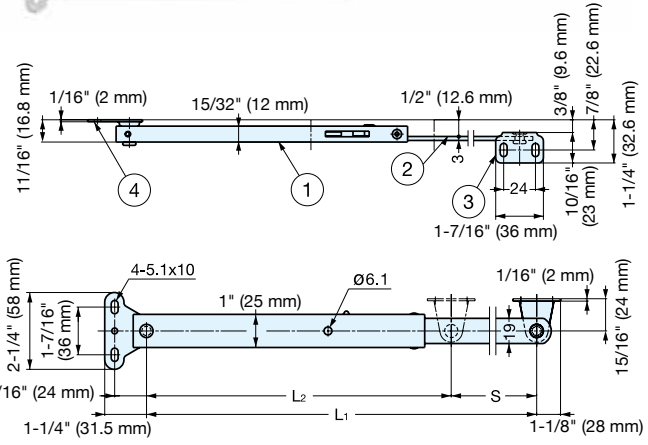
LID STAY

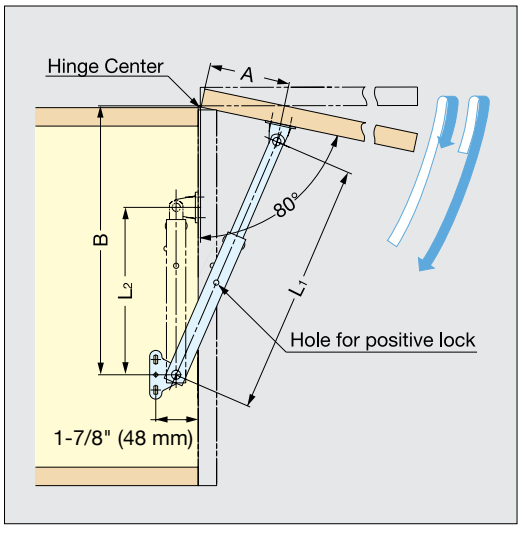
STAINLESS 304 STEEL | LOAD CAPACITY 20~30 kg 44~66 lbs | TEST 15 P.698 | NO SCREW

LB



- Holds lid or panel in fully opened position.
- Lift up lid to release.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.





No	Part Name	Material	Finish
①	Housing	304 Stainless Steel	Satin
②	Arm		
③	Housing Bracket		
④	Arm Bracket		

Item No.	L1	L2	S	A	B	Load Capacity	Box (pcs)	Carton (pcs)
LB-200	7- 7/8" (200 mm)	6-1/8" (155 mm)	1-3/4" (45 mm)	2-3/16" (56 mm)	8-5/8" (219 mm)	66 lbs (30 kg)	10	40
LB-350	13-3/4" (350 mm)	9-1/16" (230 mm)	4-3/4" (120 mm)	5-1/16" (128 mm)	4-5/16" (364 mm)	55 lbs (25 kg)		
LB-500	19-11/16" (500 mm)	12" (305 mm)	7-11/16" (195 mm)	7-11/16" (195 mm)	20-1/16" (510 mm)	44 lbs (20 kg)		20

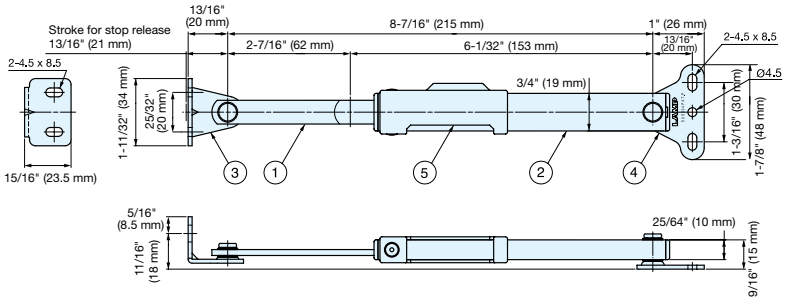
LID STAY (CLEAN ROOM)

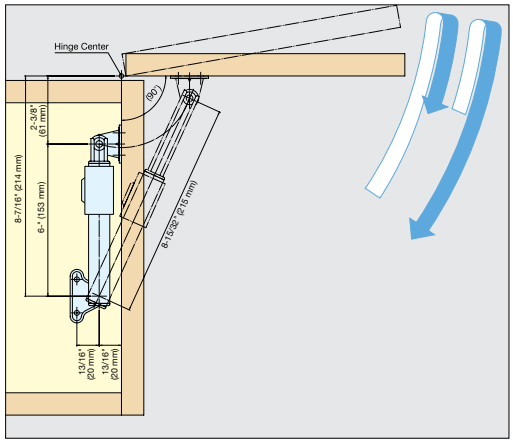
STAINLESS 304 STEEL | LOAD CAPACITY 15 kg 33 lbs | NO SCREW

LB-CV215A



- Holds lid or panel in fully opened position.
- Plastic bushing and end cap minimizes particles.
- No metal-to-metal contact.
- Ideal for clean room, semiconductor and food industry applications.
- Can be installed individually or in pairs.
- Non-Handed :
  Can be installed on left or right side.





*Lid stay must be installed parallel to the sidewall.

Item No.	Load Capacity (kg)	Weight (g)	Box (pcs)	Carton (pcs)
LB-CV215A	33 lbs (15 kg)	150	10	100

Material	Finish/Color
304 Stainless Steel	Plain
ABS	White

CLEAN ROOM HARDWARE



MC-JM45

Please see page 104 for details



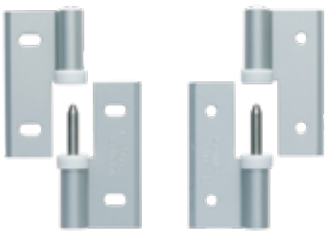
MC-JM63G

Please see page 104 for details



HG-CV

Please see page 228 for details



HG-CV-65N

Please see page 228 for details

HEAVY DUTY LID STAY

STAINLESS 304 STEEL | LOAD CAPACITY 97~133 kg 214~293 lbs | NO SCREW

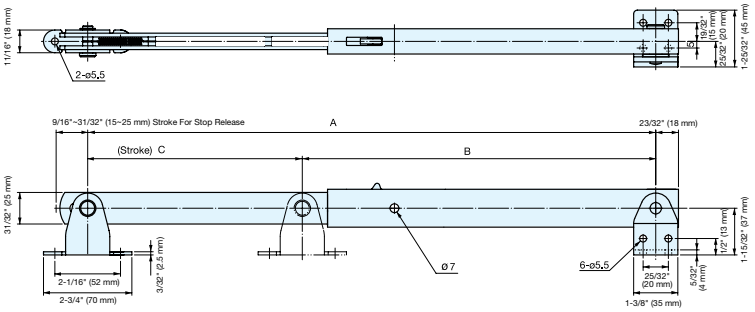
LB-S



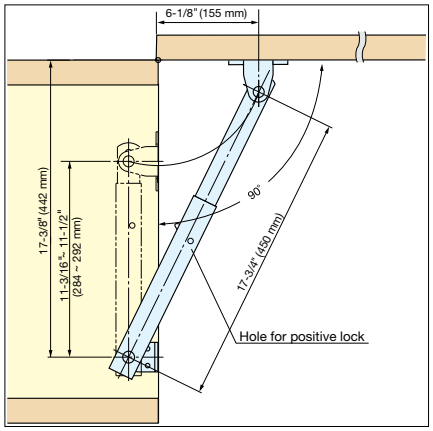
LB-S350



LB-S450



- Heavy duty lid stay holds lid or panel in fully opened position.
- Lift up the lid to release.
- Can be installed individually or in pairs.
- Non-Handed: Can be installed on left or right side.



Measurements above in ( ) are for LB-S450.
*Lid stay must be installed parallel to the sidewall.

Material	Finish
304 Stainless Steel	Satin

Item No.	(A)	B	C	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
LB-S350	13-3/4" (350 mm)	9-1/16" (230 mm)	4-3/42" (120 mm)	293 lbs (133 kg)	745	5	20
LB-S450	17-3/4" (450 mm)	11" (280 mm)	6-11/16" (170 mm)	214 lbs (97 kg)	865		

HEAVY DUTY MULTI-ANGLE LID STAY

RoHS | STAINLESS 304 STEEL | LOAD CAPACITY 70 kg 154 lbs | TEST 15 P.698 | NO SCREW

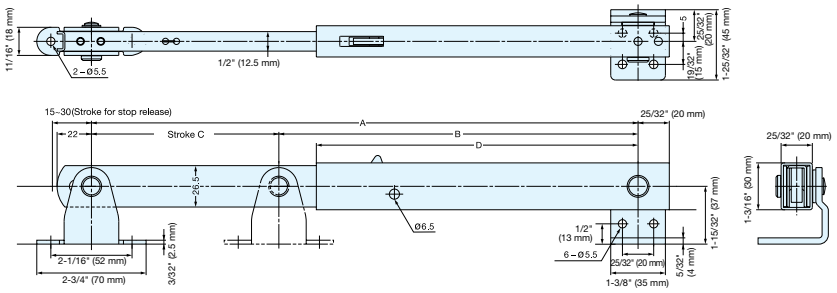
LBTS



LBTS-350

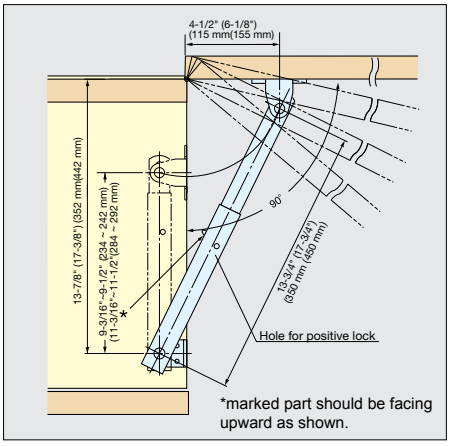


LBTS-450



Above drawing shows LBTS left-hand mounting.

- Ratchet stay holds lid at multiple angles.
- Fully lift up lid to release.
- Can be installed individually or in pairs.
- Handed left or right.



Measurements above in ( ) are for LBTS-450R.
*Lid stay must be installed parallel to the sidewall.

Material	Finish
304 Stainless Steel	Satin

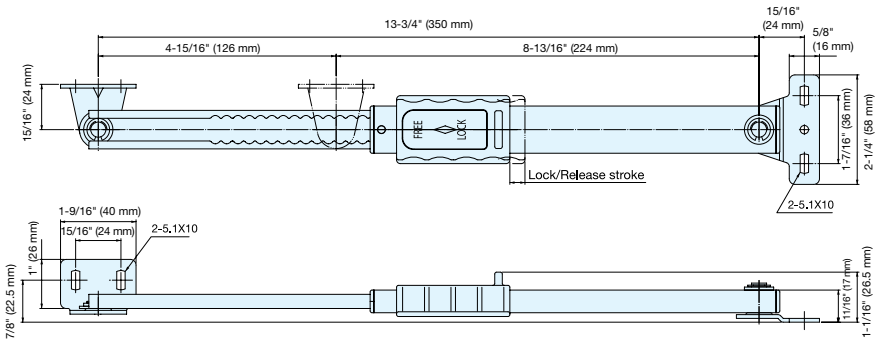
Item No.		(A)	B	C	D	Stop Positions	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right									
LBTS-350L	LBTS-350R	13-3/4" (350 mm)	9-1/16" (230 mm)	4-3/4" (120 mm)	8-1/8" (206 mm)	4	154 lbs (70 kg)	715	5	20
LBTS-450L	LBTS-450R	17-3/4" (450 mm)	11" (280 mm)	6-11/16" (170 mm)	10-1/4" (256 mm)	6		820		

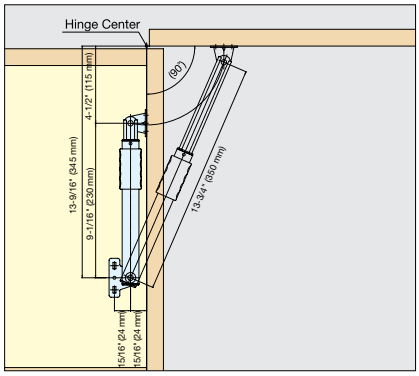
MULTI-ANGLE LID STAY (W/LOCK) L-FS350A

STAINLESS 304 STEEL | LOAD CAPACITY 25 kg 55 lbs | NO SCREW



- Locks lid in multiple positions by manually sliding lock lever.
- Slide back lever to lock/unlock.
- Ideal for vibration or shock applications.
- Can be installed individually or in pairs.
- Non-Handed: Can be installed on left or right side.





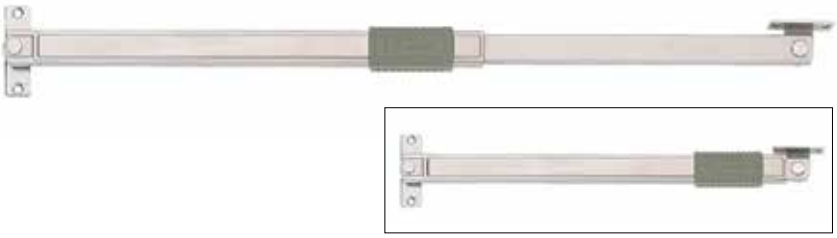
*Lid stay must be installed parallel to the sidewall.

Item No.	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
L-FS350A	55 lbs (25 kg)	325	5	50

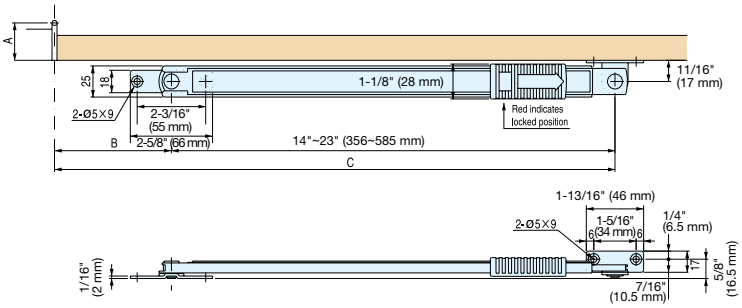
Material	Finish/Color
304 Stainless Steel	Satin
Polyacetal	Dark Grey

MULTI-ANGLE LID STAY U-3005

STAINLESS 304 STEEL | NO SCREW



- Locks lid in multiple positions by manually sliding lock lever.
- Slide back lever to lock/unlock.
- Ideal for vibration or shock applications.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.
- Door opening angle: 100°maximum
- Recommended door size
  Max. Height - 78-3/4" (2,000 mm)
  Width - 23-5/8"~35-13/16" (600~910 mm)
  Thickness - 1"~1-3/4" (25~45 mm)
- Max. Weight - 44 lbs (20 kg)



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

A	1-3/16" (30 mm)	1-3/8" (35 mm)	1-9/16" (40 mm)	1-3/4" (45 mm)	2" (50 mm)
B	6-5/16" (160 mm)	6-5/16" (160 mm)	6-5/16" (160 mm)	6-5/16" (160 mm)	6-1/8" (155 mm)
C	20-11/16" (525 mm)	20-1/2" (520 mm)	20-1/4" (515 mm)	20-1/16" (510 mm)	19-7/8" (505 mm)

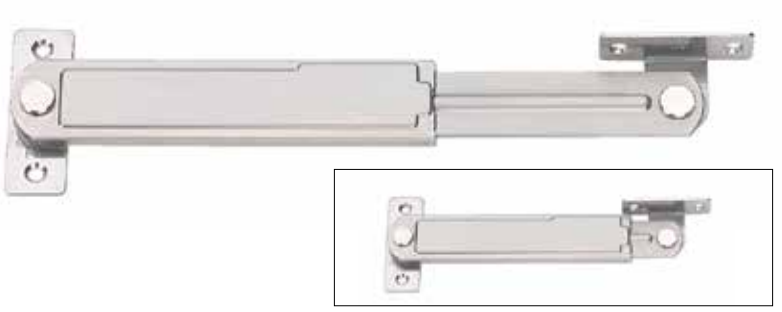
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
U-3005	338	6	60

Material	Finish/Color
304 Stainless Steel	Satin
Polyacetal	-

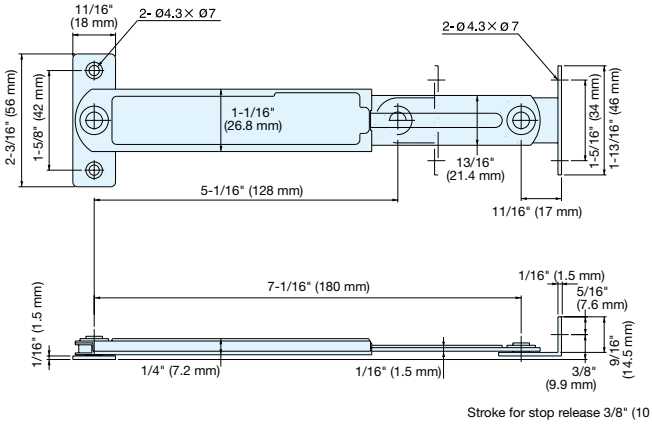
MULTI-ANGLE LID STAY

STAINLESS 304 STEEL | LOAD CAPACITY 7 kg 15 lbs | STAINLESS

U-3031



- Ratcheting stay holds flap lid at multiple angles.
- Non-handed.
- Thin and compact design.
- Completely open the door to release lock.
- Completely close the door to re-engage the lock.



Stroke for stop release 3/8" (10 mm)

Material	Finish
304 Stainless Steel	Satin

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

LID STAY (W/LOCK)

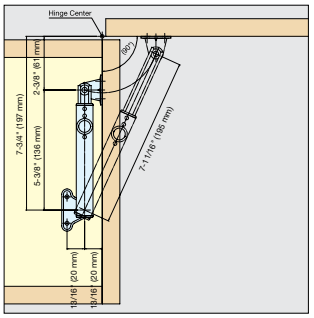
STAINLESS 304 STEEL | LOAD CAPACITY 30 kg 66 lbs | TEST 15 P.698 | NO SCREW

LSP

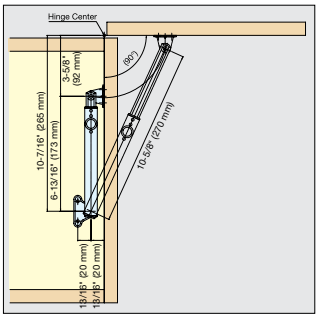


- Automatically locks lid when fully opened.
- Pull the locking knob to release lock.
- Ideal for vibration or shock applications.
- Can be installed individually or in pairs.
- Non-Handed : Can be installed on left or right side.

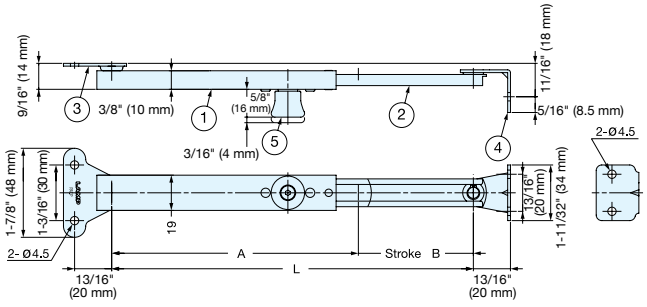
LSP-195B



LSP-270B



*Lid stay must be installed parallel to the sidewall.



No.	Part Name	Material	Finish/Color
①	Case	304 Stainless Steel	Satin
②	Arm		
③	Case Bracket		
④	Arm Bracket		
⑤	Locking knob	ABS	Dark Grey

Item No.	L	A	B	Load Capacity	Weight (g)	Box (pcs)	Carton (pcs)
LSP-195B	7-11/16" (195 mm)	5-1/4" (133 mm)	2-7/16" (62 mm)	66 lbs (30 kg)	126	6	60
LSP-270B	10-5/8" (270 mm)	6-11/16" (170 mm)	3-15/16" (100 mm)		147		

SPRING LOADED LID STAY

STAINLESS 304 STEEL | NO SCREW | S-YT

- Spring mechanism assists in lifting door and holds in open position.
- Handed: Specific left and right hand mounting.

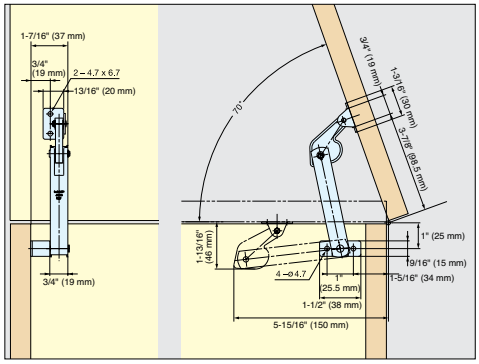


Back panel mount type

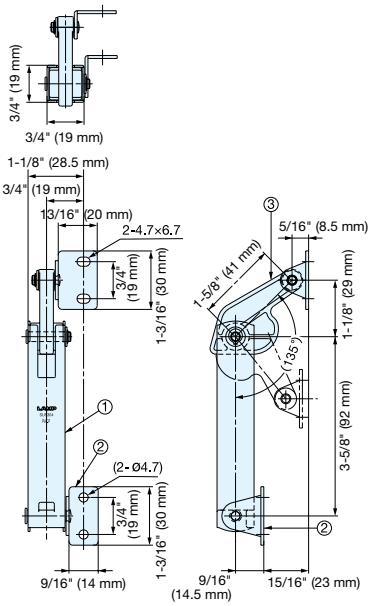


Side mount type
(Left handed shown)

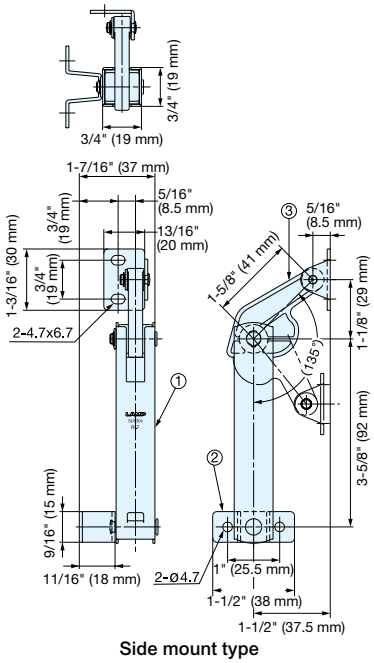




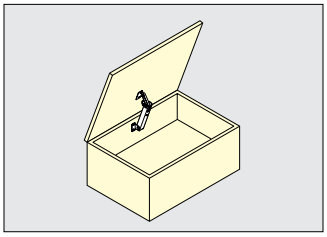
For side mount type

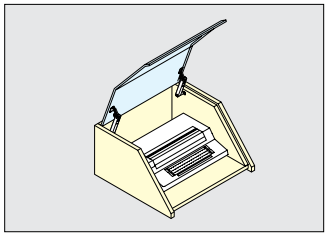


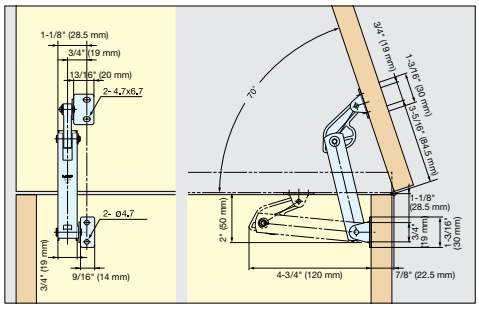
Back panel mount type



Side mount type







For back panel mount type

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

Item No.		Spring Tension	Mounting Type	Max. Torque ()	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right						
S-YT01L	S-YT01R	Soft	Side	26 lbs·in (30 kgf·cm)	118	10	100
S-YT02L	S-YT02R	Hard		34 lbs·in (40 kgf·cm)			
S-YT01S		Soft	Back Panel	26 lbs·in (30 kgf·cm)			
S-YT02S		Hard		34 lbs·in (40 kgf·cm)			

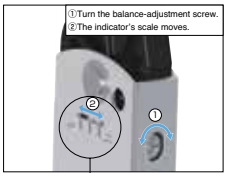
BALANCE ADJUSTABLE SPRING LOADED LID STAY S-ATJ

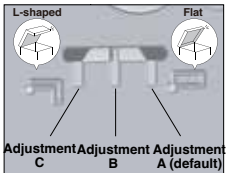


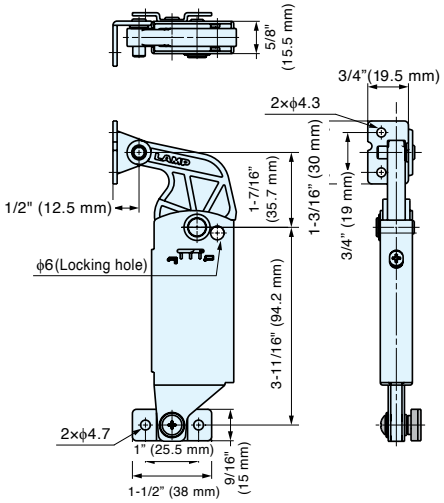
(Shown with S-ATD damper)

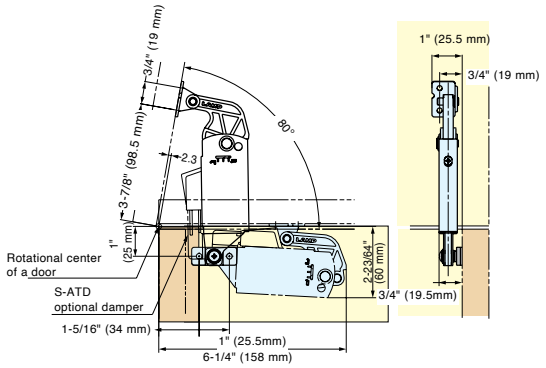
- Side wall mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- The balance adjustment allows for use in wider range of lids.
- Can be installed individually or in pairs.
- Non-Handed: Can be installed on left or right side.
- Does not work with concealed hinges.
- Optional add on damper S-ATD.

Balance Adjustment









Item No.	Material	Finish	Max. Torque per piece	Box (pcs)	Carton (pcs)
S-ATJ01	430 Stainless Steel/ Steel/Polyacetal	Plain	78 lbs·in (90 kgf·cm)	10	50
S-ATJ02			104 lbs·in (120 kgf·cm)		

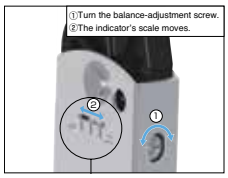
BALANCE ADJUSTABLE SPRING LOADED LID STAY S-ATJD

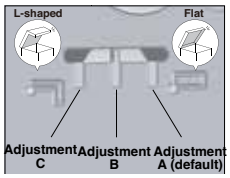


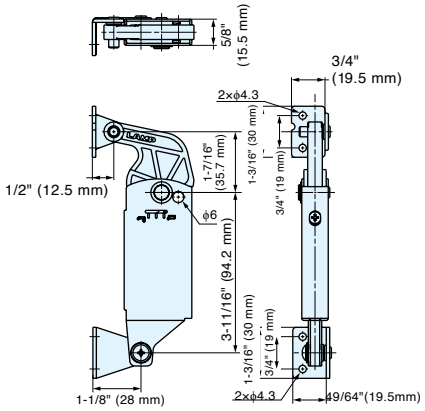
(Shown with S-ATD damper)

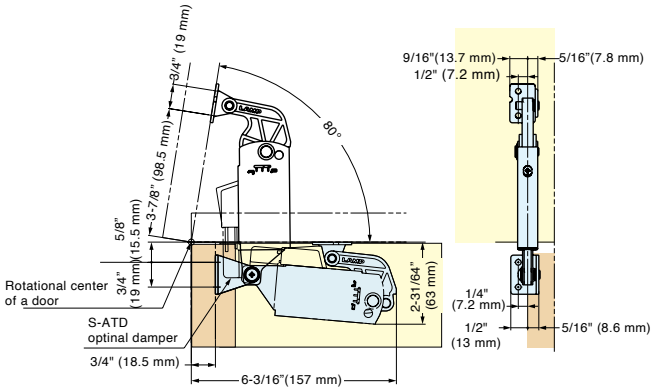
- Back panel mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- The balance adjustment allows for use in wider range of lids.
- Can be used individually or in multiples.
- Does not work with concealed hinges.
- Optional add on damper S-ATD.

Balance Adjustment









Item No.	Material	Finish	Max. Torque per piece	Box (pcs)	Carton (pcs)
S-ATJ01D	430 Stainless Steel/ Steel/Polyacetal	Plain	78 lbs·in (90 kgf·cm)	10	50
S-ATJ02D			104 lbs·in (120 kgf·cm)		

DAMPER FOR S-ATJ & S-ATJD

S-ATD


S-ATD-20

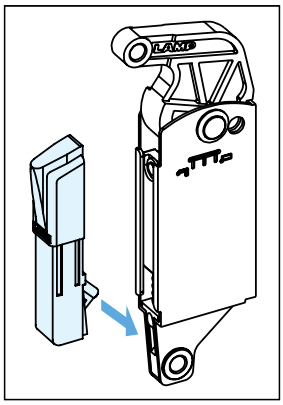

S-ATD-30

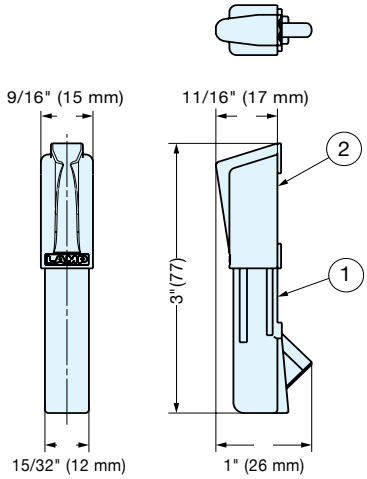
When attached to the S-ATJD



- Soft-close damper designed for use with the S-ATJ & S-ATJD.
- Easy to install.
- Available in two strengths.
- Damper activates at 20° rotation to softly close your lid.

One Step Installation





Item No.	Damper Case Color	Damper Resistance	Weight (g)	Box (pcs)	Carton (pcs)
S-ATD-20	Gray	Light Duty	15	50	200
S-ATD-30	Black	Heavy Duty			

No.	Part Name	Material	Finish
①	Damper Case	Polyacetal	Black
②	Slider	Plastic (PBT)	

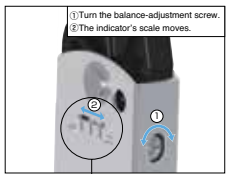
BALANCE ADJUSTABLE SPRING LOADED LID STAY

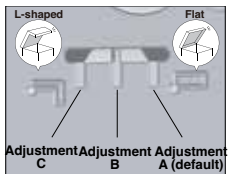
S-ATJS

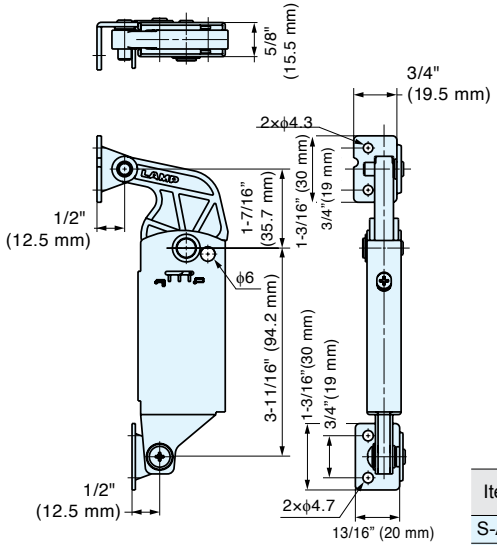


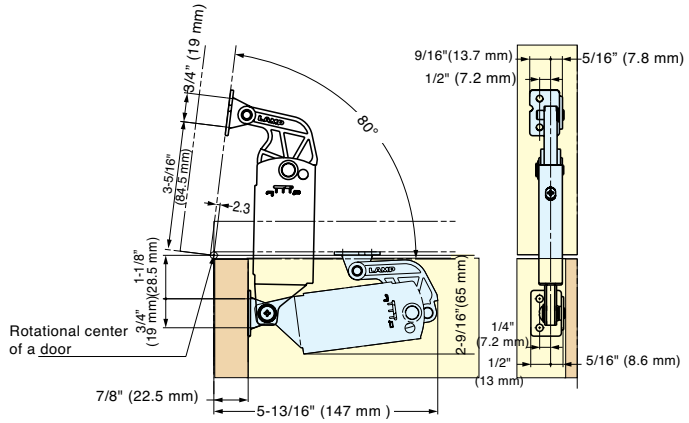
- Back panel mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- The balance adjustment allows for use in wider range of lids.
- Can be used individually or in multiples.
- Does not work with concealed hinges.
- Damper option not available.

Balance Adjustment









Item No.	Material	Finish	Max. Torque per piece	Box (pcs)	Carton (pcs)
S-ATJ01S	430 Stainless Steel/ Steel/Polyacetal	Plain	78 lbs·in (90 kgf·cm)	10	50
S-ATJ02S			104 lbs·in (120 kgf·cm)		

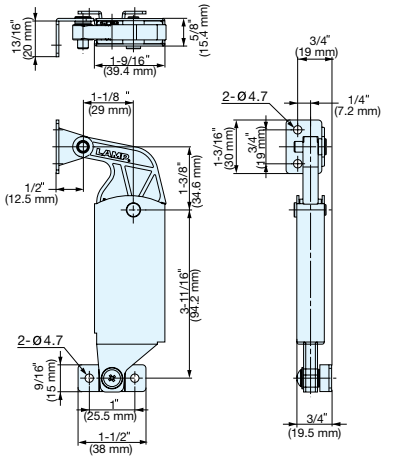
SPRING LOADED LID STAY

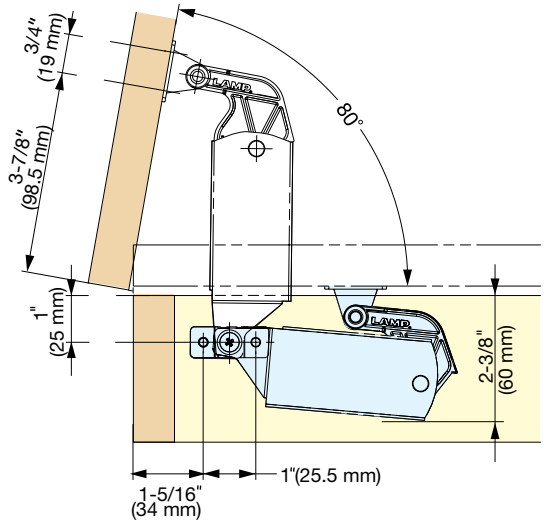
RoHS compliant | STAINLESS 430 STEEL | NO SCREW

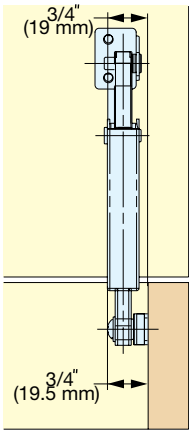
S-AT01, S-AT02



- Side wall mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- Can be installed individually or in pairs.
- Non-Handed: Can be installed on left or right side.
- Does not work with concealed hinges.







Item No.	Max. Torque per piece	Box (pcs)	Carton (pcs)
S-AT01	78 lbs·in (90 kgf·cm)	10	50
S-AT02	104 lbs·in (120 kgf·cm)		

Material	Finish
430 Stainless Steel/ Steel/Polyacetal	Plain

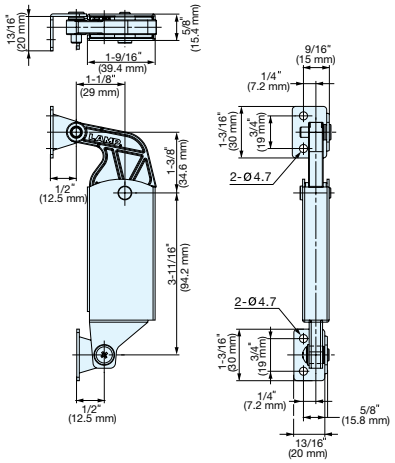
SPRING LOADED LID STAY

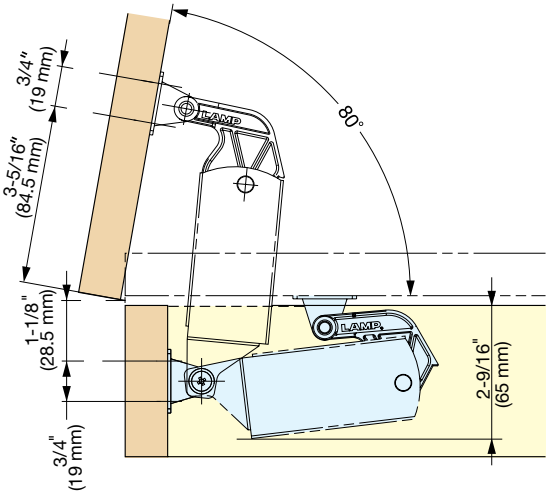
RoHS compliant | STAINLESS 430 STEEL | NO SCREW

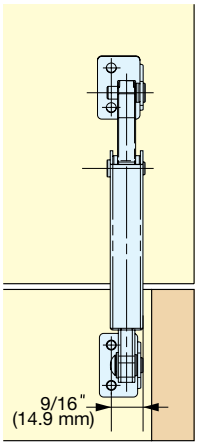
S-AT01S, S-AT02S



- Back panel mounted.
- Spring mechanism assists in lifting door and holds in open position (10°~80°).
- Can be used individually or in multiples.
- Does not work with concealed hinges.







Item No.	Max. Torque per piece	Box (pcs)	Carton (pcs)
S-AT01S	78 lbs·in (90 kgf·cm)	10	50
S-AT02S	104 lbs·in (120 kgf·cm)		

Material	Finish
430 Stainless Steel/ Steel/Polyacetal	Plain

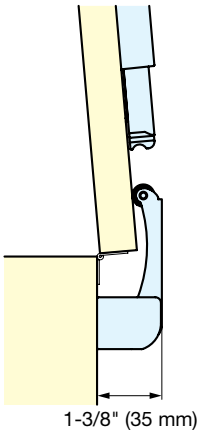
LIFT ASSIST DAMPER

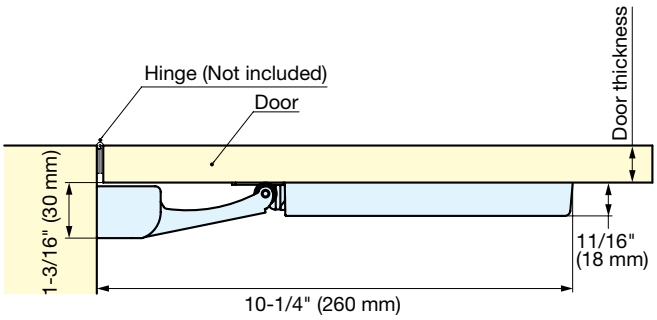
LAD

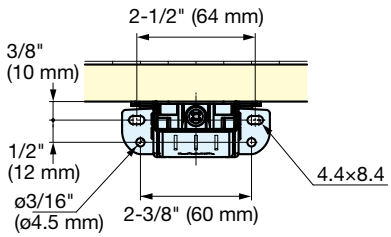


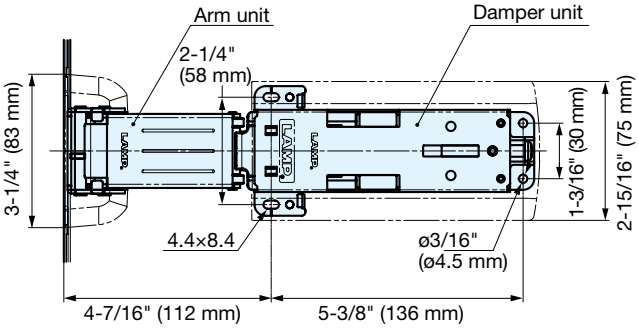
- Ideal for bar and countertop applications.
- Damper equipped for soft closing.
- Lift-Assist creates light opening.
- Simple surface mount installation.
- Slim arm keeps walkways clear with a minimal footprint.
- Brackets, spacers and mounting plate accessories available (sold separately).
- Supports two-pair configurations for doubled torque.

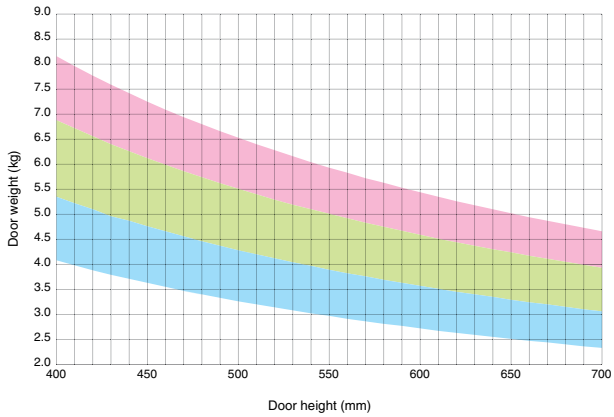












Door Size Ranges:
1 pc Use (*2 pcs use possible. Torque moment becomes double.)

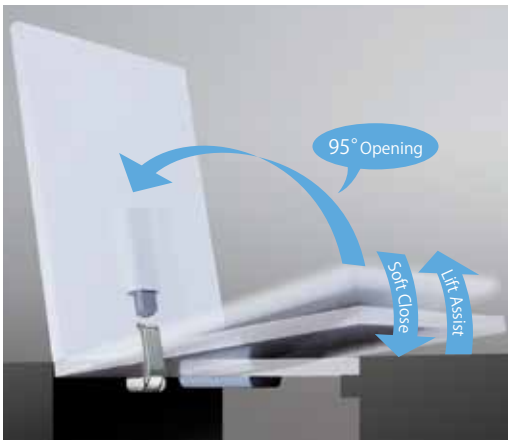
Item No.	Max. Torque per piece	Panel Thickness	Weight (g)	Carton (pcs)	Material	Finish
LAD-L	70.1 ~ 93.1 lbs·in (81.6~107.1 kgf·cm)	9/16"~1" (15~25 mm)	750	20	ABS/ Polyacetal (POM)/ Steel	Nickel Chrome
LAD-M	93.1~119.7 lbs·in (107.1~137.7 kgf·cm)					
LAD-H	119.7~141.9 lbs·in (137.7~163.2 kgf·cm)					

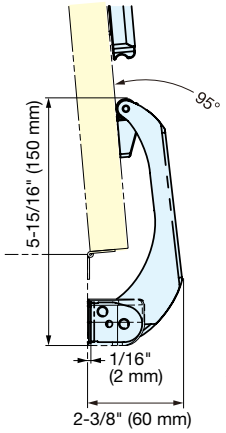
LIFT ASSIST DAMPER (W/ANGLE STOPPER)

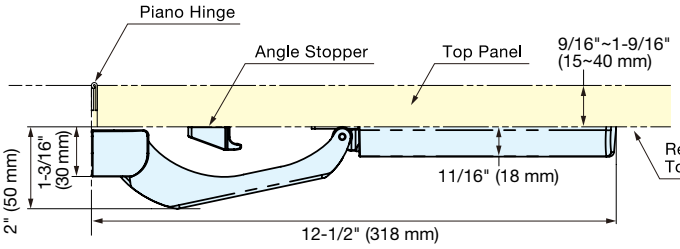
RoHS compliant Lapcon **LAD-ST**

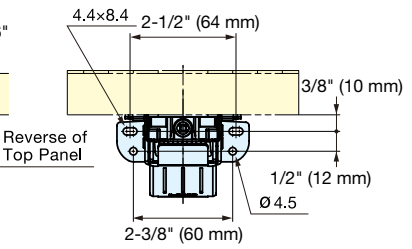


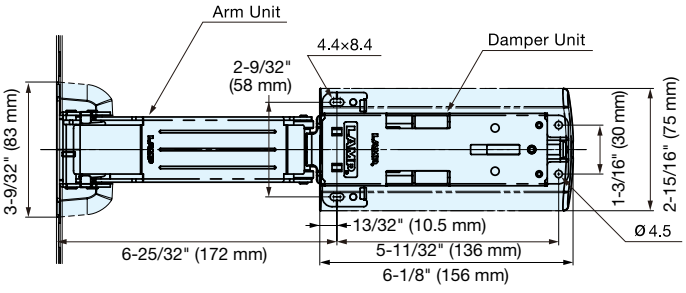
- Ideal for bar and countertop applications.
- Angle stopper designed to hold open at 95°.
- Damper equipped for soft closing.
- Simple surface mount installation.
- Brackets, spacers and mounting plate accessories available (sold separately)

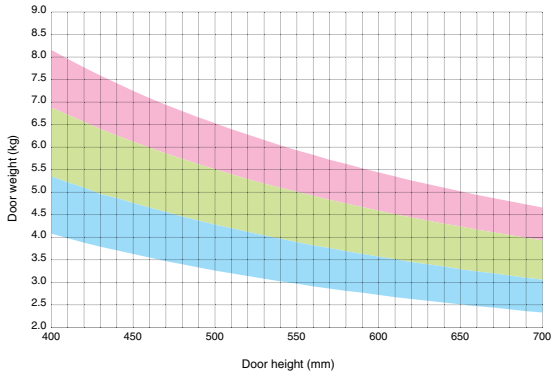












Item No.	Max. Torque per piece	Panel Thickness	Weight (g)	Carton (pcs)	Material	Finish
LAD-ST-L	70.1 ~ 93.1 lbs·in (81.6~107.1 kgf·cm)	9/16"~1-9/16" (15~40 mm)	750	1	ABS/Polyacetal/ Steel/Zinc Alloy	Off White/ Chrome/ Nickel
LAD-ST-M	93.1~119.7 lbs·in (107.1~137.7 kgf·cm)					
LAD-ST-H	119.7~141.9 lbs·in (137.7~163.2 kgf·cm)					

SPACER FOR THICKER PANEL

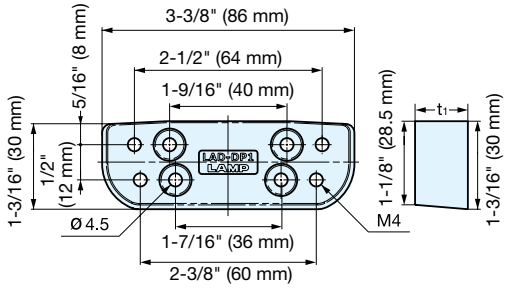
RoHS compliant

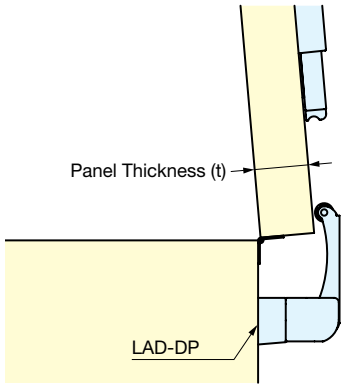
LAD-DP





• Optional spacer for LAD-ST.





Item No.	t_1	Panel Thickness (t)	Box	Carton (pcs)	Material	Color
LAD-DP1	3/4" (18 mm)	1"~1-3/8" (25~35 mm)	50	200	Polyacetal	Grey
LAD-DP2	31/32" (25 mm)	1-3/16"~1-9/16" (30~40 mm)				

UNDER MOUNTING BRACKET

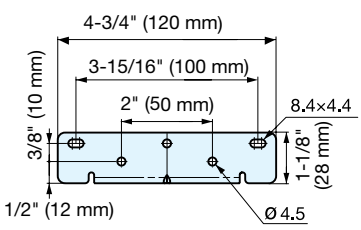
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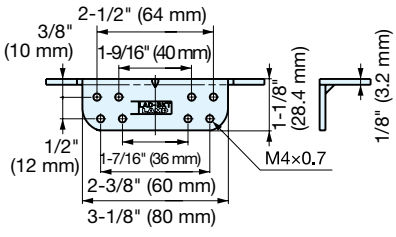
LAD-BKT

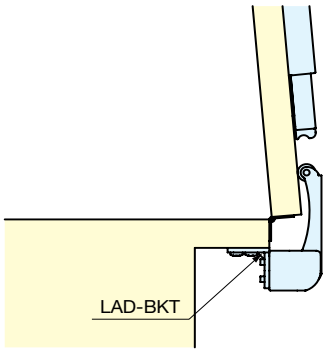




• Optional under mounting bracket for LAD and LAD-ST.







Item No.	Material	Box	Carton (pcs)	Color
LAD-BKT	Steel	20	100	Nickel

LIFT-ASSIST DAMPER (Heavy Duty)

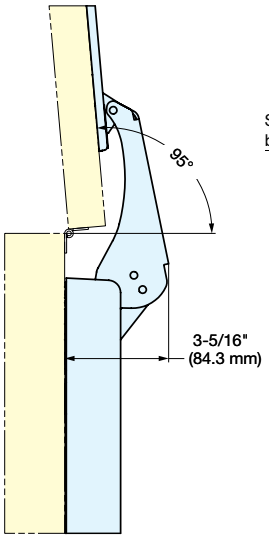
RoHS compliant Lapcon **LADH**

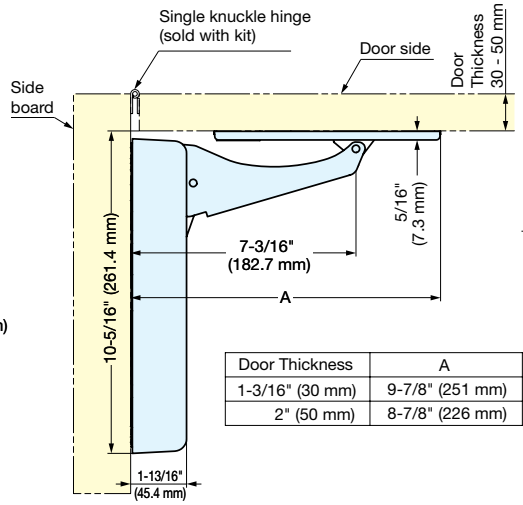


- Add a smooth soft-close to counter tops in restaurants, bars and reception desks to prevent slamming.
- Lift-Assist feature helps users lift countertop
- Holds door open at 95 degrees.
- Easy installation - surface mounted and can be retrofitted
- Stainless steel piano hinge included (see next page for details)

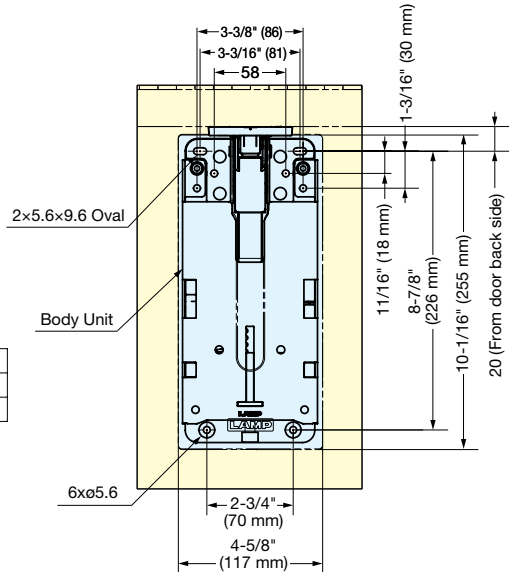


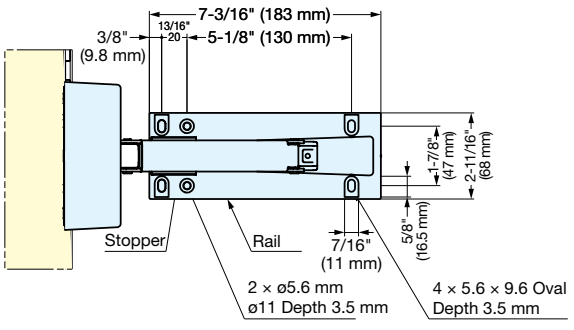


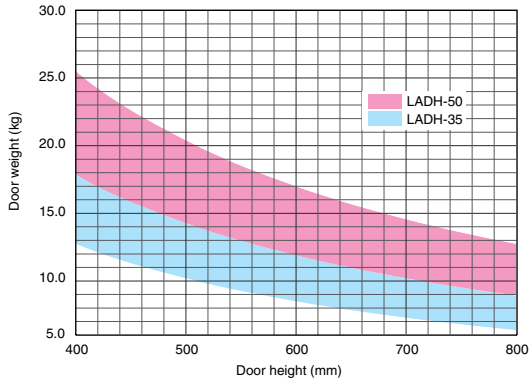




Door Thickness	A
1-3/16" (30 mm)	9-7/8" (251 mm)
2" (50 mm)	8-7/8" (226 mm)

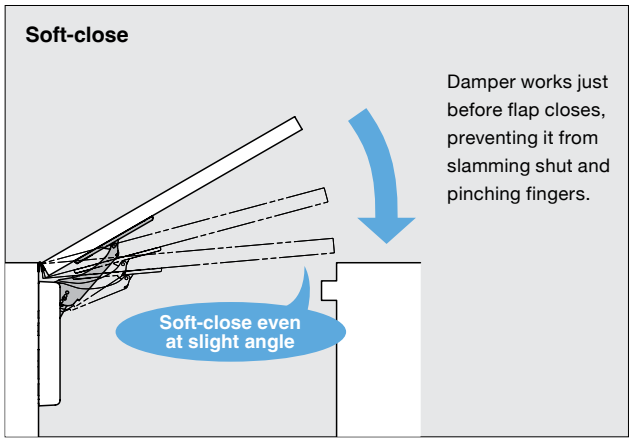


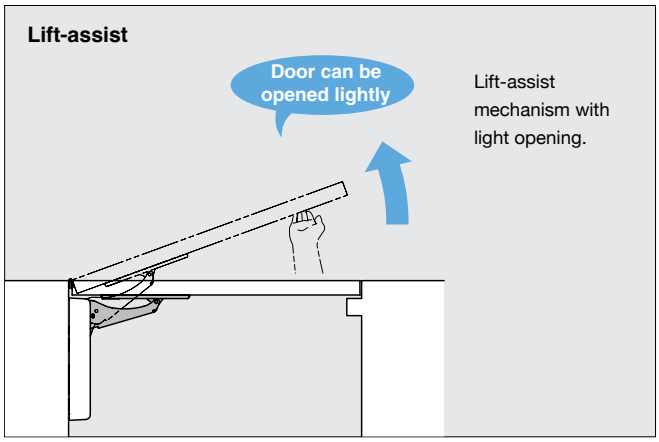


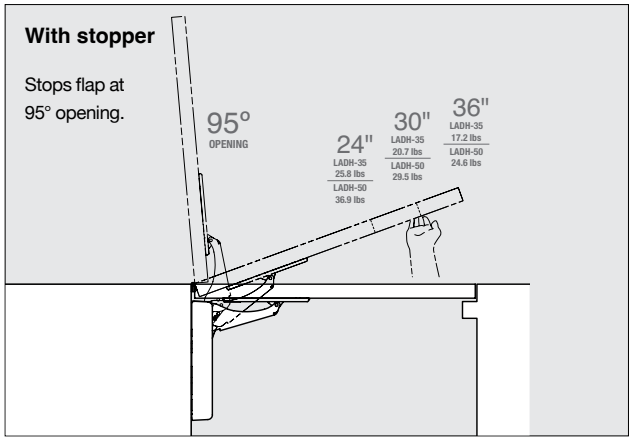


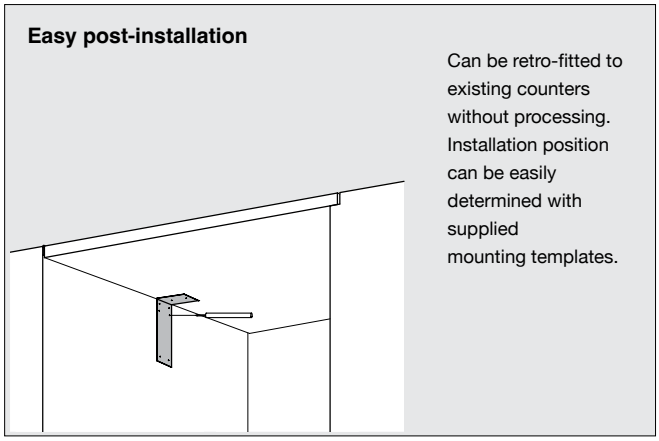
Item No.	Max. Torque per piece	Panel Thickness	Weight (g)	Box (pcs)	Material	Finish
LADH-35	221 ~ 309 lbs·in (254 ~ 356 kg·cm)	30~50 mm (1-3/16"~2")	2,000	1	Steel (SPCC)/ Polyacetal (POM)/ABS	Arm: Nickel Chrome Body: Dark Brown/ White Other Parts: Nickel Plating
LADH-35WT						
LADH-50	309 ~ 442 lbs·in (356 ~ 509 kg·cm)					
LADH-50WT						

LIFT-ASSIST DAMPER (Heavy Duty) LADH

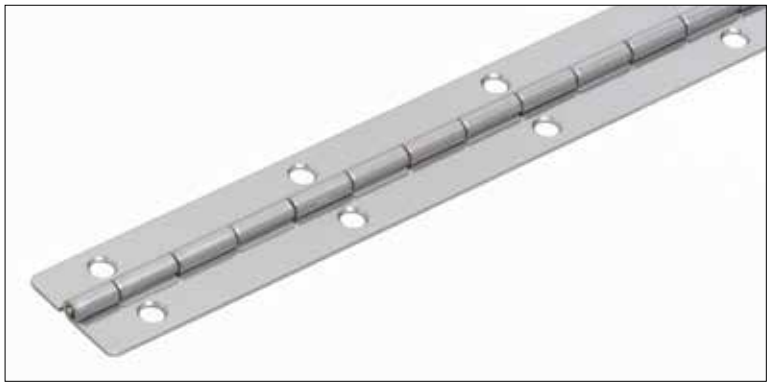








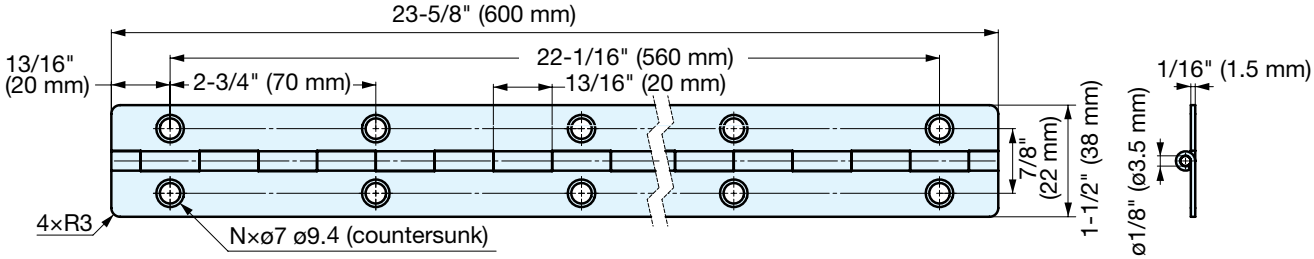
STAINLESS STEEL PIANO HINGE for LADH LSN-C



- Recommended use with LADH Lift Assist Damper
- Please note this product is designed for use on wood. Hole positioning on wood should be done by aligning the actual hinge. This product is not suitable for sheet metal or installations with hole pitch limitations.
- Included as part of the LADH Heavy Duty Lift Assist Damper set.
- Hinge can be cut down to shorter desired length.

Item No.	Weight (g)	Material	Finish
LSN15-38-600C	300	Stainless Steel	Polished

Other sizes available



ENCLOSURE DOOR STOPS

TEST 14 P.698 | TEST 15 P.698 | NO SCREW

YFN



YFN-200



YFN-300

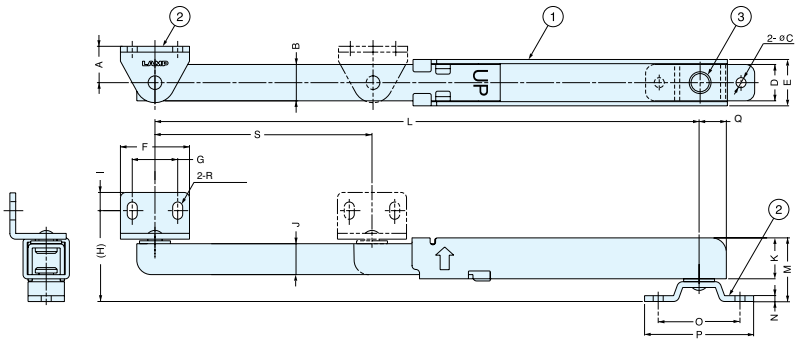


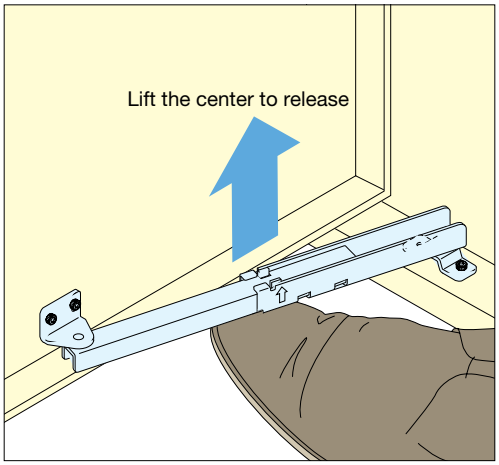
YFN-300-T50



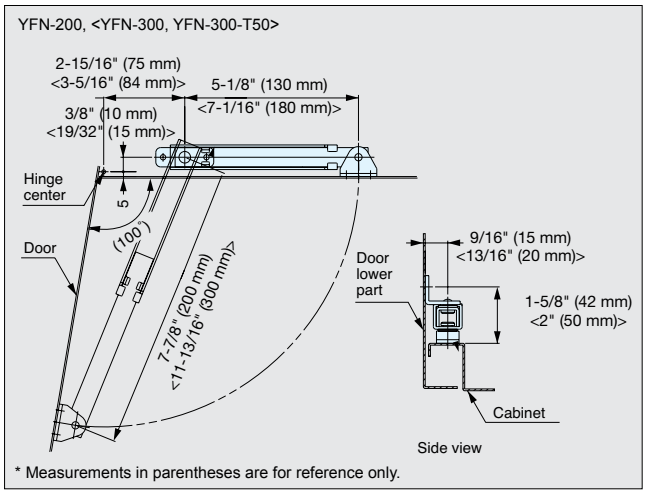
YFN-300W

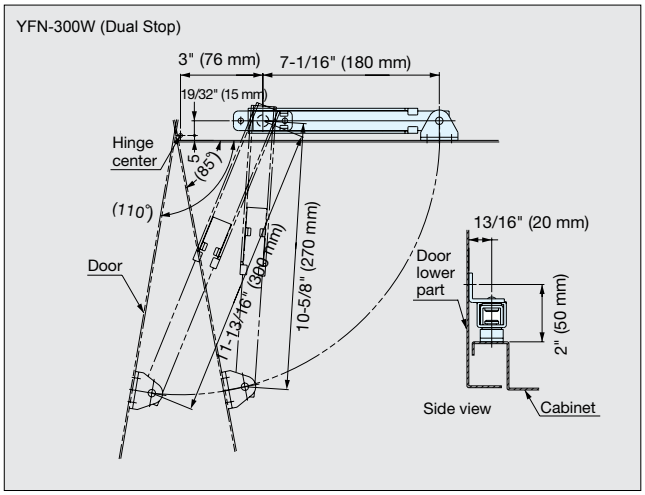
- Door stops for enclosures that mechanically lock doors open.
- Release the stay by lifting with foot.
- For horizontally swinging doors only.
- Non-Handed: Install on left or right side.
- Designed for installation at the base of the enclosure.
- **YFN-300W only:** Mechanically locks door at 85˚ and 110˚ (fully opened).





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





Item No.	L	S	A	B	C	D	E	F	G	(H)	I	J	K	M	N	O	P	Q	R
YFN-200	7-7/8" (200)	2-3/4" (70)	9/16" (15)	5/8" (15.9)	(5.5)	11/16 (17)	13/16" (20)	1-5/16" (33)	13/16" (20)	1-5/8" (42)	5/16" (8)	5/8" (15.7)	13/16" (20)	1-3/16" (30)	1/16" (2.3)	(35)	(50)	(10)	5.5×8.0
YFN-300	11-13/16" (300)	4-3/4" (120)	13/16" (20)	13/16" (20)	(5.5)	13/16" (20)	1" (25.5)	1-1/2" (38)	1" (25)	2" (50)	3/8" (10)	11/16" (17)	7/8" (22.5)	1-3/8" (35)	1/8" (3.2)	(45)	(60)	(15)	5.5×9.5
YFN-300-T50					(9)											(50)	(72)		
YFN-300W					(5.5)											(45)	(60)		

() units in mm.

Item No.	Old Item No.	Tensile Force	Compression Load	Weight (kg)	Box (pcs)	Carton (pcs)
YFN-200	YF-200	Max. 198 lbs (90 kg)	Max. 110 lbs (50 kg)	198	10	100
YFN-300	YF-300	Max. 330 lbs (150 kg)	Max. 132 lbs (60 kg)	438	5	30
YFN-300-T50	YF-300-T50			476		
YFN-300W	YF-300W			435		

STAINLESS STEEL FOOT STAY (TWO-ANGLE LOCK) YFNS

RoHS compliant | STAINLESS 304 STEEL | TEST 14 P.698 | TEST 15 P.698 | NO SCREW

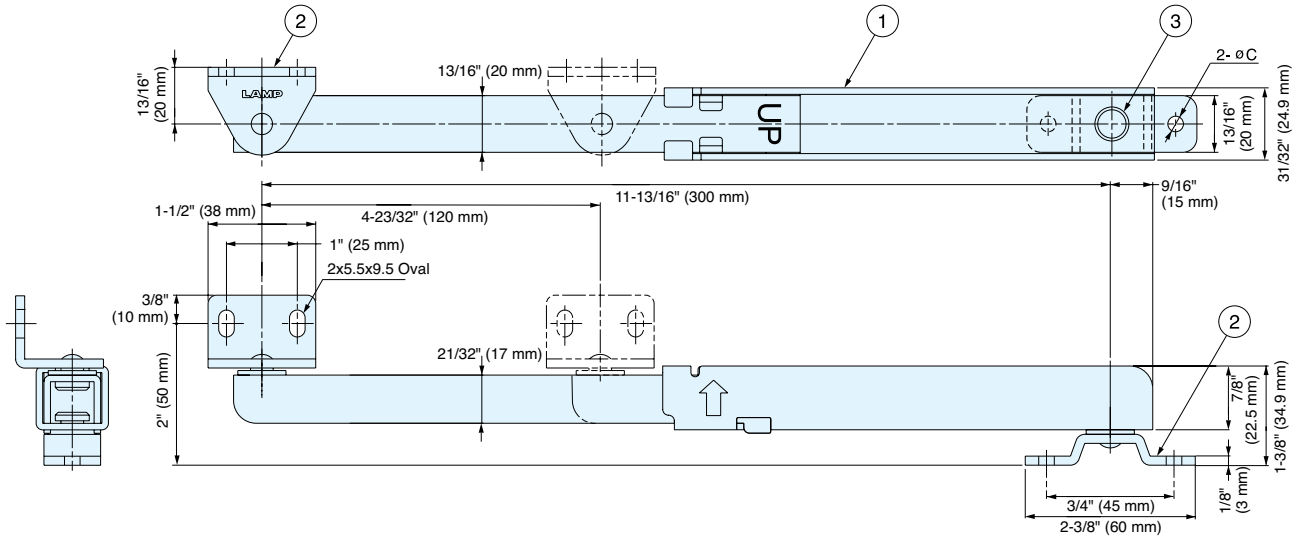
- For horizontally swinging doors.
- Mechanically locks door when fully opened.
- Simply lift the stay with foot toe to release the lock.
- Designed for bottom mount (Not recommended for vertical use).
- Non-Handed: Can be installed on left or right side.

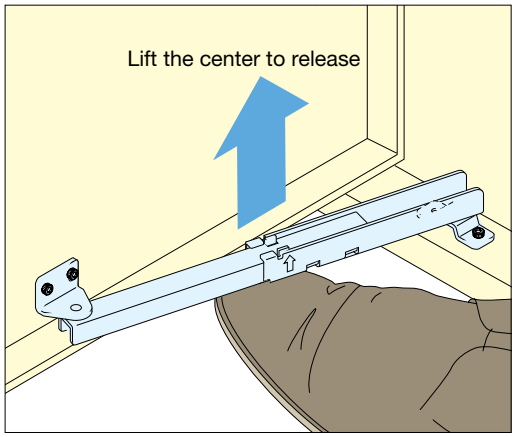


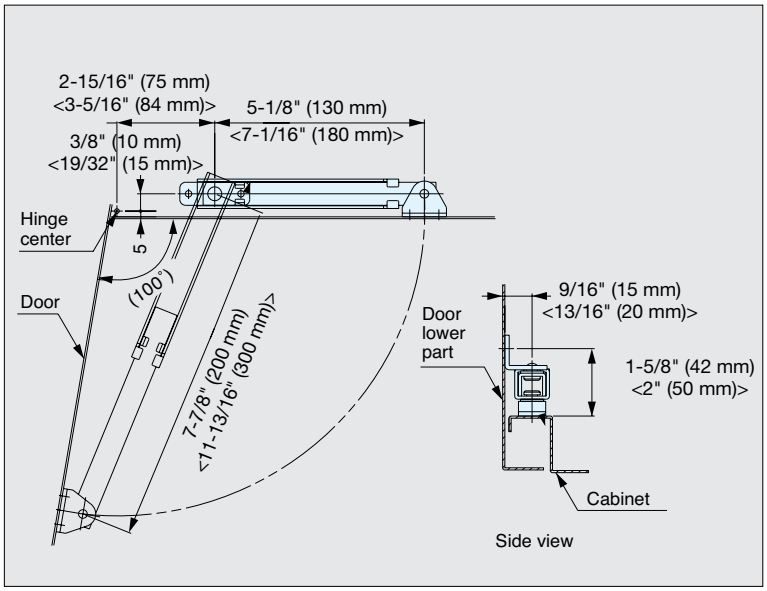
YFNS-300



YFNS-300-T50







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

Item No.	P1	P2	C	Tensile Force	Compression Load	Weight (g)	Box (pcs)	Carton (pcs)
YFNS-300	2-3/8" (60 mm)	1-3/4" (45 mm)	1/4" (5.5 mm)	Max. 198 lbs (90 kg)	Max. 110 lbs (50 kg)	389	5	30
YFNS-300-T50	2-13/16" (72 mm)	2-3/8" (60 mm)	11/32" (9 mm)	Max. 330 lbs (150 kg)	Max. 132 lbs (60 kg)	396		

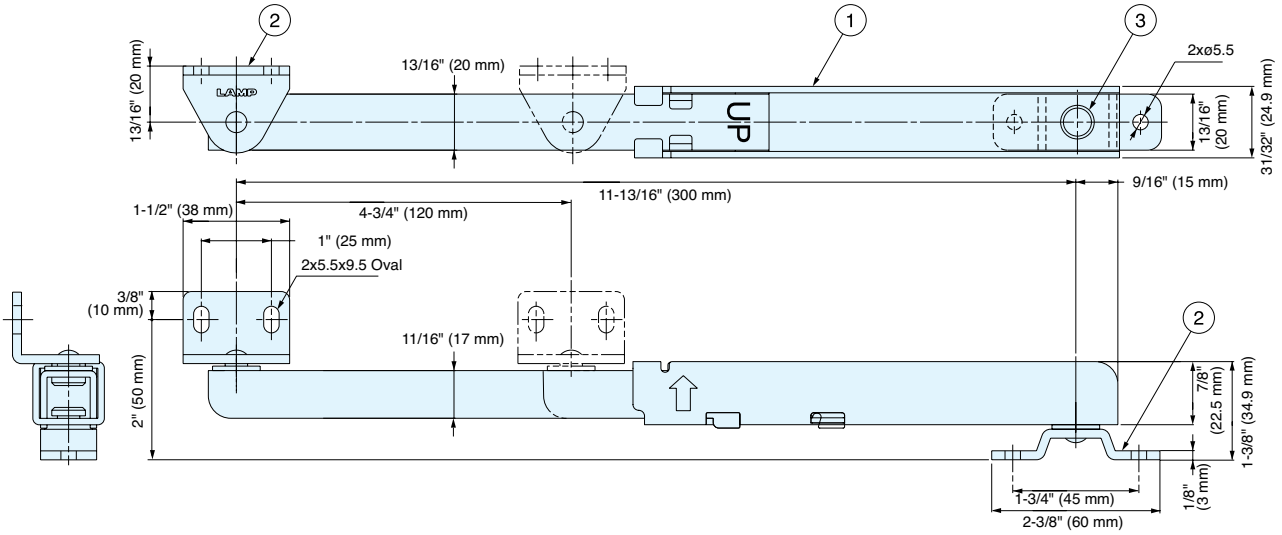
STAINLESS STEEL FOOT STAYS

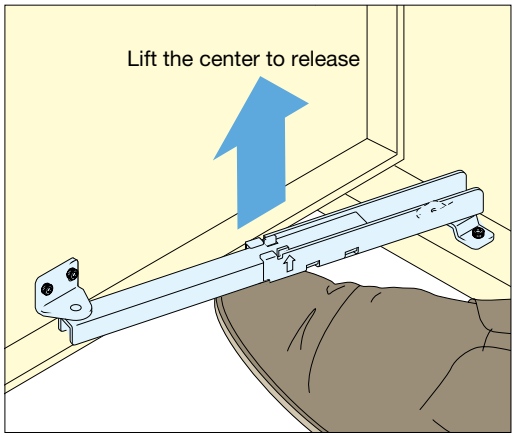
RoHS compliant | STAINLESS 304 STEEL | TEST 14 P.698 | TEST 15 P.698 | NO SCREW

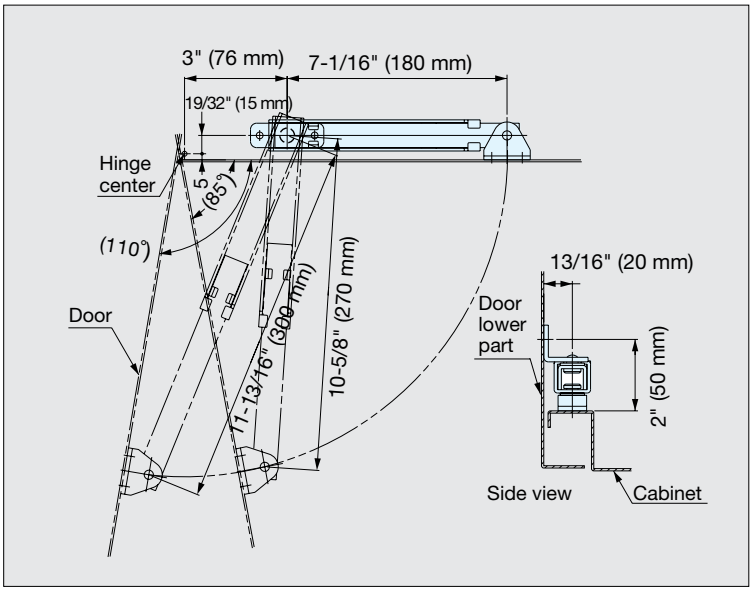
YFNS-300W



- For horizontally swinging doors.
- Mechanically locks door at 85˚ and 110˚ (fully opened).
- Simply lift the stay with foot toe to release the lock.
- Designed for bottom mount (Not recommended for vertical use).
- Non-Handed: Can be installed on left or right side.





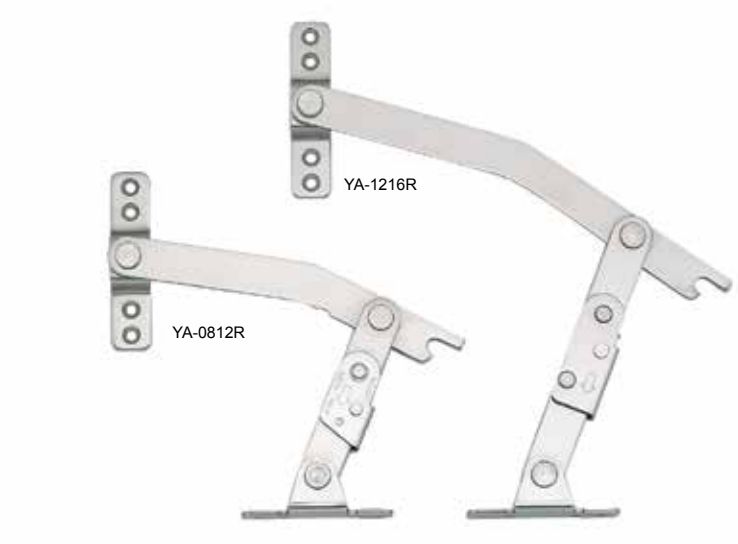


Item No.	Tensile Force	Compression Load
YFNS-300W	Max. 198 lbs (150 kg)	Max. 110 lbs (60 kg)

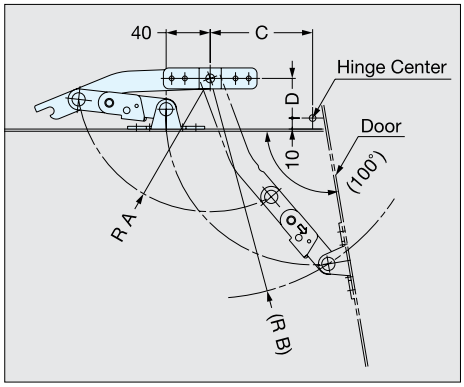
No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Barrel Polished
②	Bracket		
③	Pin	Stainless Steel	-

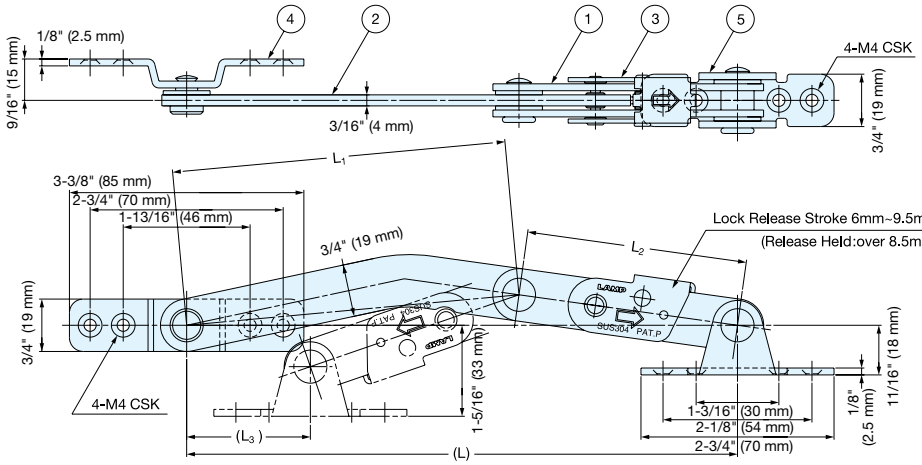
DOOR HOLDER

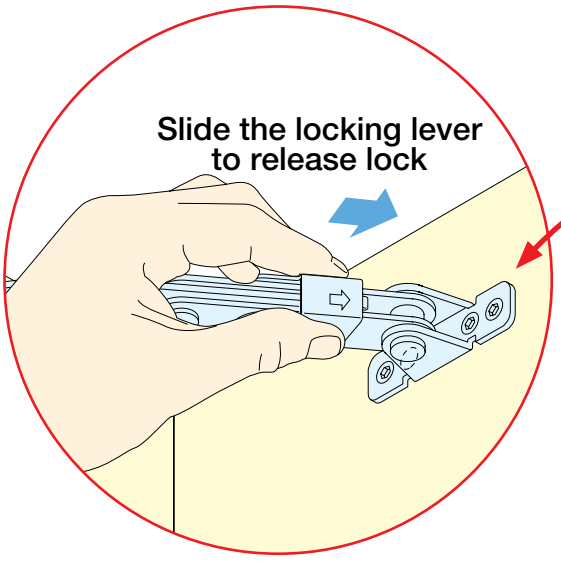
YA-0812, 1216

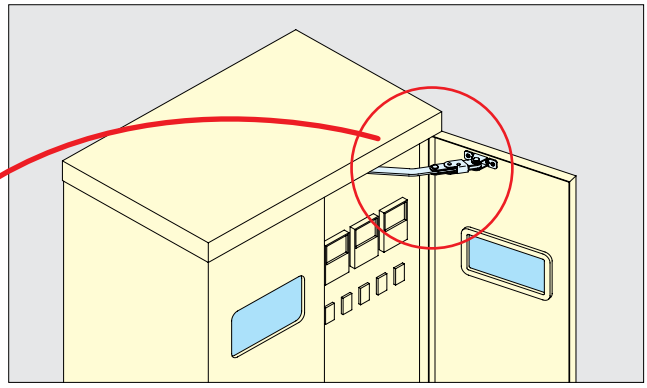


- Automatically locks door when fully opened.
- Slide the locking lever to release lock. Lever will keep the unlocked position until the door is moved, for easy handling.
- Left-handed and Right-handed models available.









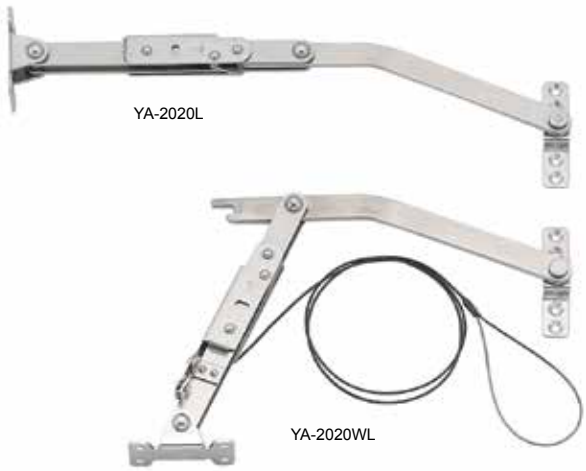
No.	Part Name	Material	Finish
①	Outer Plate	304 Stainless Steel	Polished
②	Arm		
③	Slide Grip		
④	Arm Bracket		
⑤	Base Bracket		

Item No.	Type	L	L1	L2	L3	A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
YA-0812L	Left	7-7/8" (200 mm)	4-3/4" (121 mm)	3-1/8" (80 mm)	1-3/4" (45 mm)	4-3/4" (121 mm)	7-7/8" (200 mm)	3-11/16" (93 mm)	1-7/16" (36 mm)	291	5	30
YA-0812R	Right											
YA-1216L	Left	11" (280 mm)	6-5/16" (161 mm)	4-3/4" (120 mm)	1-3/4" (44 mm)	6-5/16" (161 mm)	11" (280 mm)	5-11/16" (145 mm)	1-9/16" (40 mm)	340		
YA-1216R	Right											

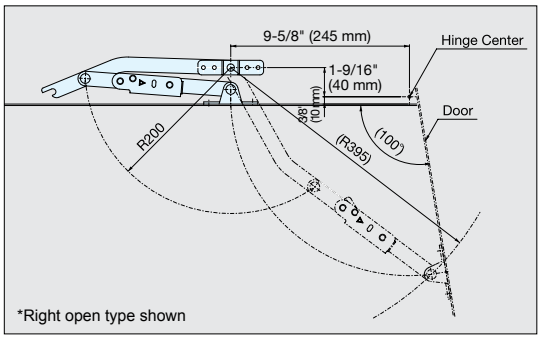
DOOR HOLDER

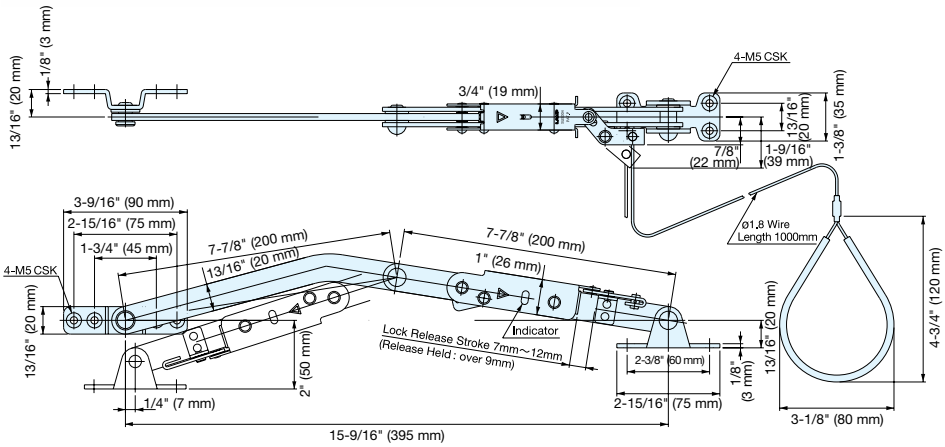
RoHS compliant | STAINLESS 304 STEEL | TEST 14 P.698 | TEST 15 P.698 | NO SCREW

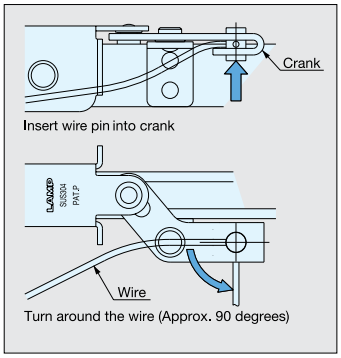
YA-2020, 2020W



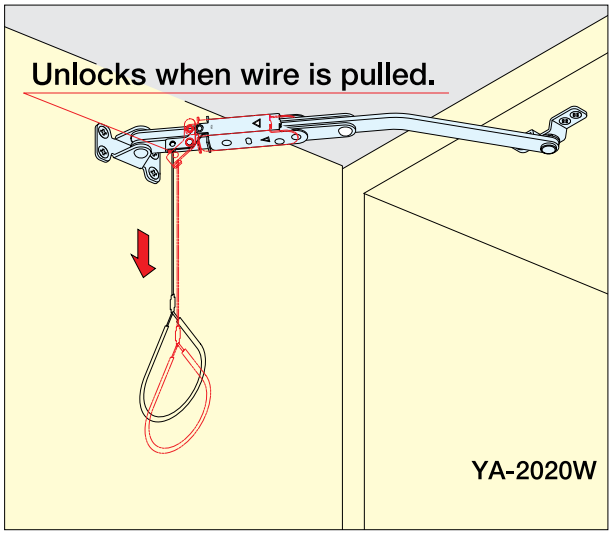
- Automatically locks door when fully opened.
- Slide the locking lever to release lock. Locking grip will stay unlocked until the door is moved for easy handling.
- YA-2020WR/WL (with lock release wire) available for tall applications.
- Left-handed and Right-handed models available.
- Tensile Force: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

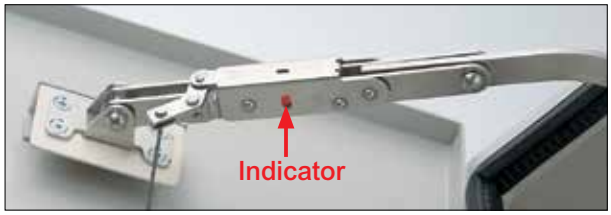


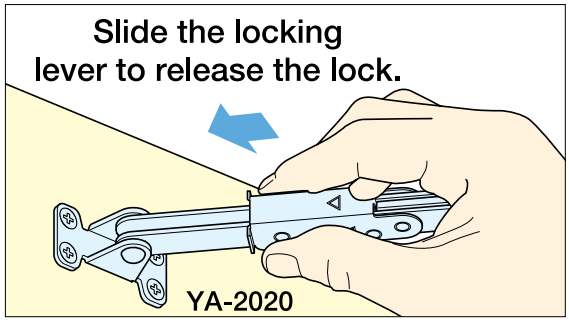




Installation of lock-release wire (WR and WL type only)







Material	Finish
304 Stainless Steel	Polished

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