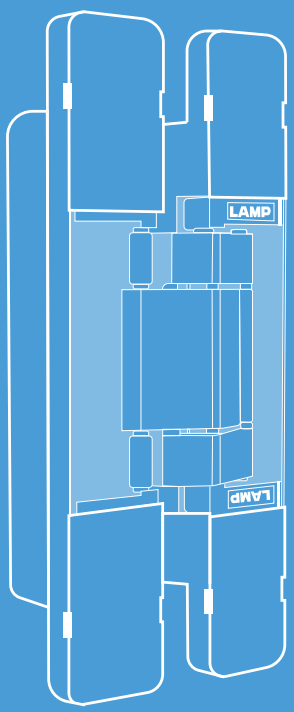
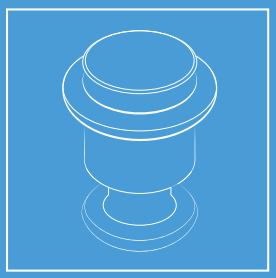
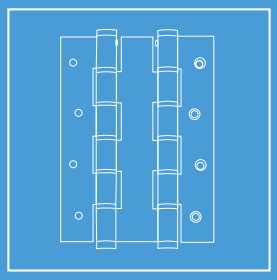


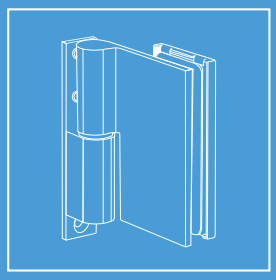
Hinges and Door Accessories.

3-Way Adjustable Concealed Hinges • 2-Way Adjustable Pivot Hinges • Lift-Off Hinges
Butt Hinges • Spring Hinges • Glass Hinges • Door Accessories • Door Stoppers









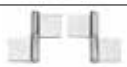
3-WAY ADJUSTABLE CONCEALED HINGES

Item No.	Max. Door Height	Min. Door Thickness	Max. Door Weight	3-way Adjustment	Leaf Separable	Page
HES3D-120 	94-1/2" (2400 mm)	1-1/8" (29 mm)	66 lbs / 2pcs (30 kg) 88 lbs / 3 pcs (40 kg)	YES	YES	42
HES3D-E160 	94-1/2" (2400 mm)	1-3/8" (36 mm)	121 lbs / 2 pcs (55 kg) 154 lbs / 3 pcs (70 kg)	YES	YES	43
HES3D-E190 	94-1/2" (2400 mm)	1-1/2" (38 mm)	220 lbs / 2 pcs (100 kg) 275 lbs / 3 pcs (125 kg)	YES	YES	44
HES3D-V135LGR-2 	94-1/2" (2400 mm)	1-3/16" (30 mm)	88 lbs / 2 pcs (40 kg) 122 lbs / 3 pcs (55 kg)	YES	YES	45
HES3D-W190 For Door Molding 	96-1/16" (2440 mm)	1-5/8" (42 mm)	220 lbs / 2 pcs (100 kg) 275 lbs/ 3 pcs (125 kg)	YES	YES	46
HES2S-140-A125 	106-5/16" (2700 mm)	1-1/2" (38 mm)	143 lbs/ 3 pcs (50 kg)	NO	NO	48
HES2S-140-A125 	106-5/16" (2700 mm)	1-1/2" (38 mm)	143 lbs/ 3 pcs (50 kg)	NO	NO	49
HGS3D-S160SH 	94" (2387 mm)	1-7/16" (36 mm)	220 lbs/ 3 pcs (100 kg)	YES	YES	50
HES-3038BK 	78-3/4" (2000 mm)	1-7/16" (36 mm)	99 lbs / 3 pcs (45 kg)	NO	NO	51

2-WAY ADJUSTABLE PIVOT HINGES

Picture	Item No.	Max. Door Weight	Page
	PH-01	77 lbs / pair	52

LIFT-OFF HINGES

Picture	Item No.	Max. Door Weight	Page
	ZL-1701	88~110 lbs / pair	53
	HG-CV127	220 lbs / pair	53
	S-6166-2	88 lbs / pair	54
	S-6166-6	198 lbs / pair	54
	S-6173-2	88 lbs / pair	55
	S-6173-5	110 lbs / pair	55

BUTT HINGES

Picture	Item No.	Max. Door Weight (lbs)	Page
	3535/SS NSF RoHS STAINLESS 304 STEEL	55 lbs / pair	56
	4040/SS NSF RoHS STAINLESS 304 STEEL	88 lbs / pair	56
	HG-FH-128 RoHS	90 lbs / pair	57

SPRING HINGES

Picture	Item No.	Door Weight (lbs)	Page
	JSA STAINLESS 304 STEEL ALUMINUM	44~88 lbs/ 2 pcs 66~132 lbs/ 3 pcs	58
	JST-150S STAINLESS 304 STEEL	88 lbs/ 2 pcs 132 lbs/ 3 pcs	58
	JDA STAINLESS 304 STEEL ALUMINUM	-	59
	JDAW ALUMINUM	-	60

GLASS HINGES

Picture	Item No.	Max. Door Weight (lbs)	Page
	ZL-1702 STAINLESS 316 STEEL	110 lbs / pair	61
	ZL-1703 STAINLESS 316 STEEL	143 lbs / pair	61
	GH-G02SH	110.2 lbs / 3 pcs	62
	GH-G07SH	110.2 lbs / 3 pcs	62

DOOR ACCESSORIES

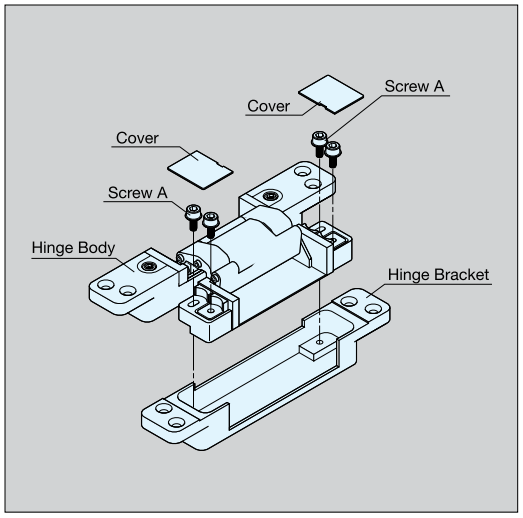
Picture	Item No.	Max. Door Weight (lbs)	Page
	LDD-S RoHS	33~88 lbs	64
	LDD-S-P	-	65
	LDD-V RoHS	33~88 lbs	66
	LDD-V100 (HEAVY DUTY TYPE) RoHS	88~220 lbs	68
	ZL-1801 RoHS STAINLESS 316 STEEL	-	70
	ZL-1802 RoHS STAINLESS 316 STEEL	-	70
	ZL-1803 RoHS STAINLESS 316 STEEL	-	70
	HT-32P RoHS STAINLESS 304 STEEL	-	71
	DSD STAINLESS 304 STEEL STAINLESS 303 STEEL	-	71
	SMDH	30.8 lbs Magnetic Force	72
	KMDH	26.4 lbs Magnetic Force	72
	SODH	-	72
	JFR	176 lbs	73

HES3D HINGE SERIES





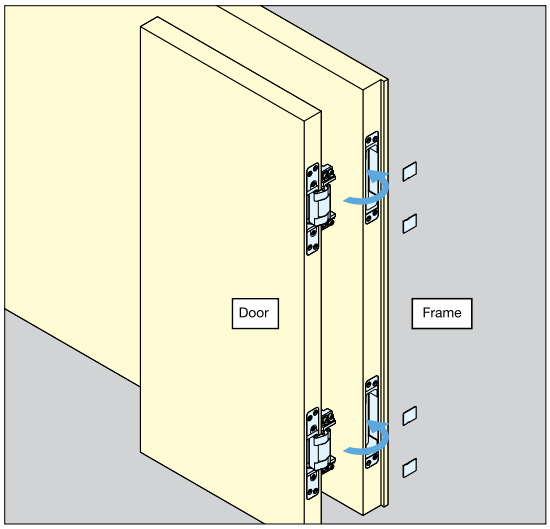
a. Detailed View



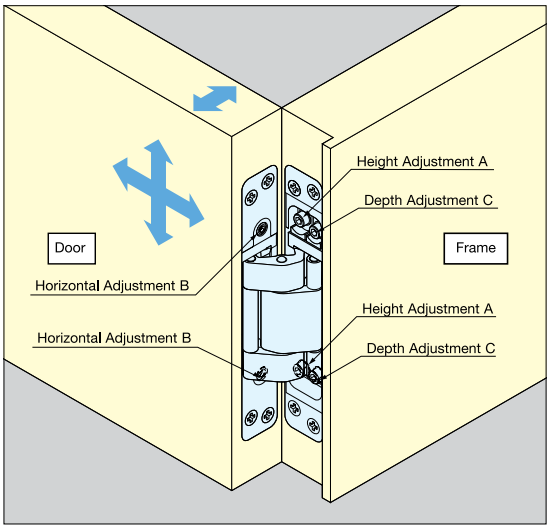
For Easy Installation

1. Separate parts as shown in picture “a”.
2. Screw on the Hinge Body to door, and Hinge Bracket to door frame.
3. As shown in picture “b”, insert Hinge Body straight into Hinge Bracket. Bracket will temporarily hold the Body for easy installation.
4. Use “Screw A” to fix Body on Bracket.
5. Adjust horizontally by turning “Screw B”.
6. Loosen “Screw A” for vertical adjustment. Tighten “Screw A” after vertical adjustment completed.
7. For depth adjustment, loosen “Screw C” (one turn). Tighten “Screw C” after completed.
8. Snap on plastic covers after all above completed.

b. Installation



c. 3-WAY Adjustment





3-WAY Adjustable Concealed Hinge



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HES3D-E190

- **Easy Installation with Lift-Off Feature**
- **3-WAY Adjustability**
  (Depth, Vertical and Horizontal)
- **Quality**



3-WAY ADJUSTABLE CONCEALED HINGE HES3D-120



HES3D-120DC

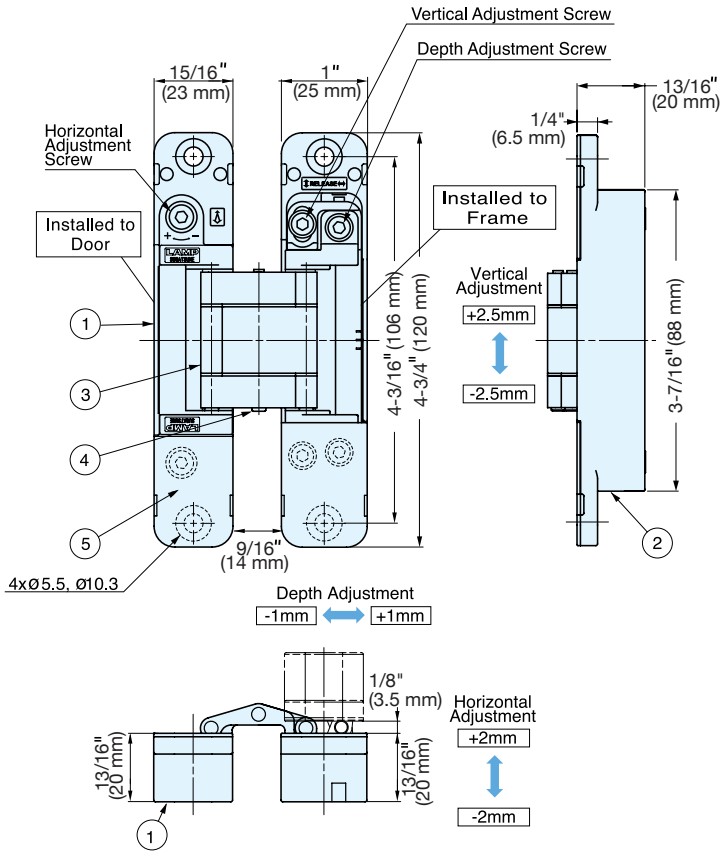


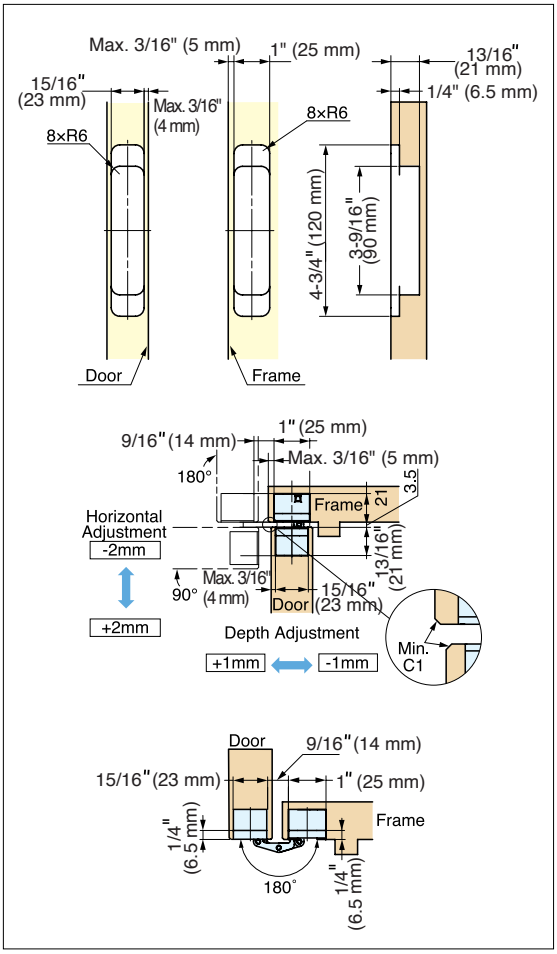
HES3D-120DN



HES3D-120BL

- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation and adjustment.
- Successfully passed 300,000 open/close private cycle tests.
- Supplied with steel flat head screw.
- Covers hide all screw heads for clean appearance.
- Door weight: Max. 66 lbs (30 kg)/2 pcs, 88 lbs (40 kg)/3 pcs
- Door Thickness: Min. 1-1/8" (29 mm)
- Max. Door Size: H 94-1/2" × W 35-7/16" (H 2400 mm × W 900 mm)
- Bracket for sheet metal available.





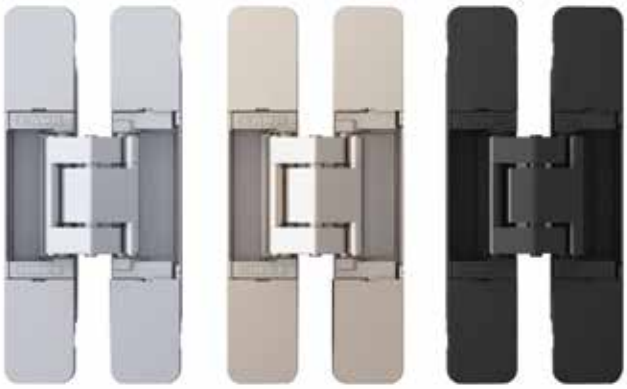
Bore Dimensions

Item No.	Finish/Color	Weight (g)	Box (pcs)	Carton (pcs)
HES3D-120DC	Dull Chrome	380	2	24
HES3D-120DN	Dull Nickel			
HES3D-120BL	Black			

No.	Part Name	Material	Finish/Color
①	Body	Zinc Alloy	Dull Chrome (DC) Dull Nickel (DN) Black (BL)
②	Base Frame		
③	Arm		
④	Pin	304 Stainless Steel	-
⑤	Cover	ABS	Dull Chrome (DC) Dull Nickel (DN) Black (BL)

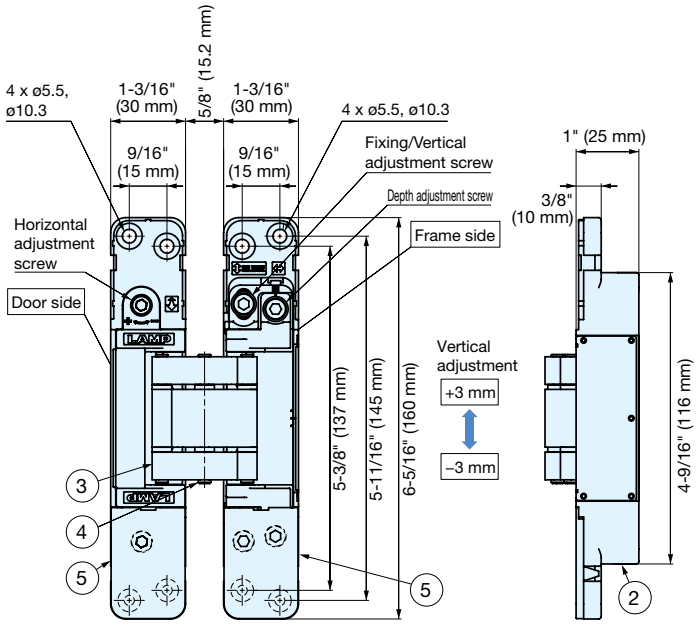
3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E160

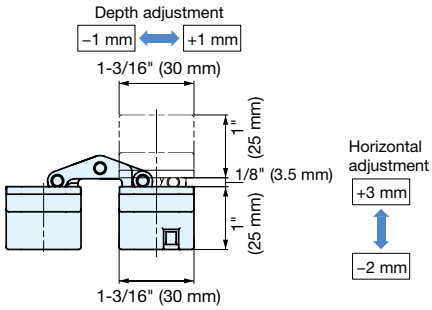
RoHS compliant
4.8×25 STEEL



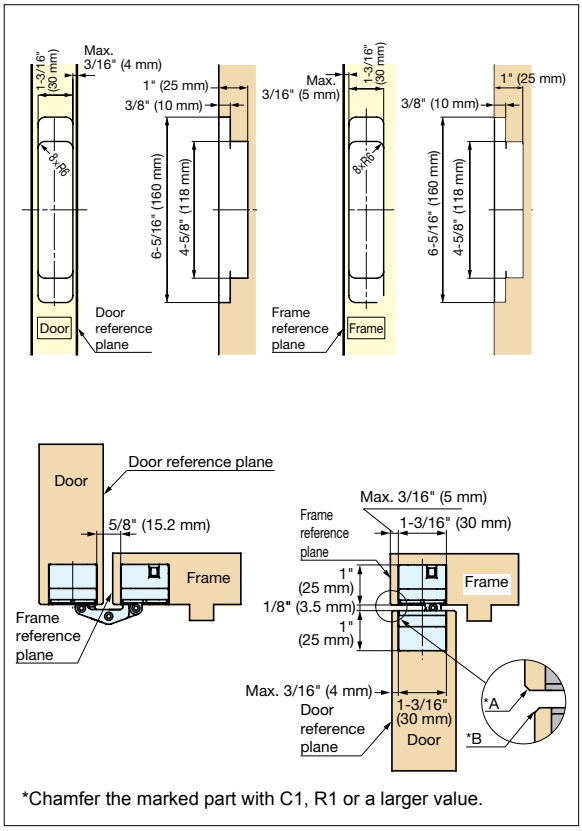
HES3D-E160DC HES3D-E160DN HES3D-E160BL

- Easy installation with symmetrical leaves and lift-off feature.
- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Door Weight Capacity: Max. 121 lbs (55 kg)/2 pcs, 154 lbs (70 kg)/3 pcs
- Compatible with 1-3/4" (44 mm) Door Thickness
- Actual Specified Door Thickness: Min. 1-7/16" (36 mm)
- Max. Door Dimensions: H 94-1/2" × W 35-7/16" (H 2400 mm × W 900 mm)
- Successfully passed 300,000 open/ close private cycle tests.

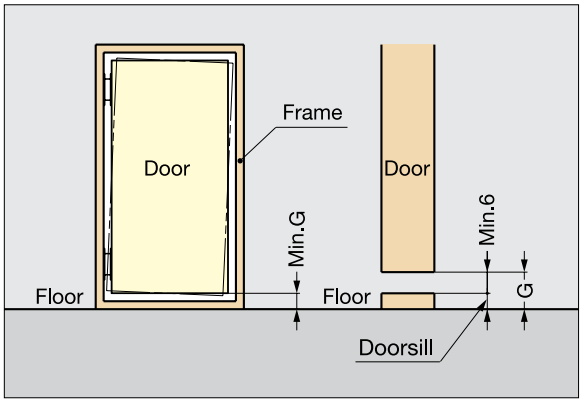




Bore Dimensions



*Chamfer the marked part with C1, R1 or a larger value.



To determine the door and frame dimension, (G) must be taken into account.
G = Min. 6 mm + doorsill

Item No.	Weight (g)	Box (pcs)	Carton (pcs)	Finish/Color
HES3D-E160DC	760	2	12	Dull Chrome
HES3D-E160DN				Dull Nickel
HES3D-E160BL				Black

No.	Part Name	Material	Finish/Color
①	Body	Zinc Alloy	Dull Chrome (DC), Dull Nickel (DN), Black (BL)
②	Base Frame		
③	Arm	Aluminum	
④	Pin	304 Stainless Steel	-
⑤	Cover	ABS	Dull Chrome (DC), Dull Nickel (DN), Black (BL)

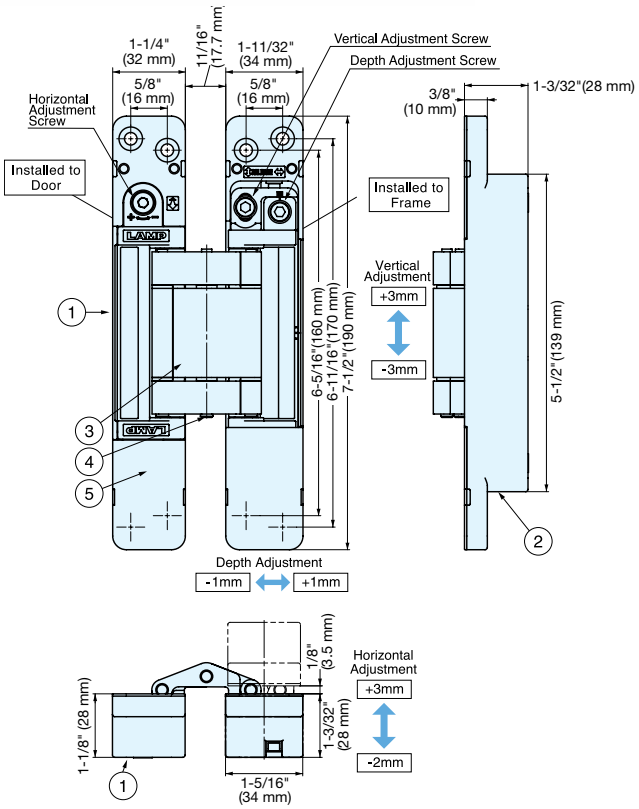
3-WAY ADJUSTABLE CONCEALED HINGE HES3D-E190

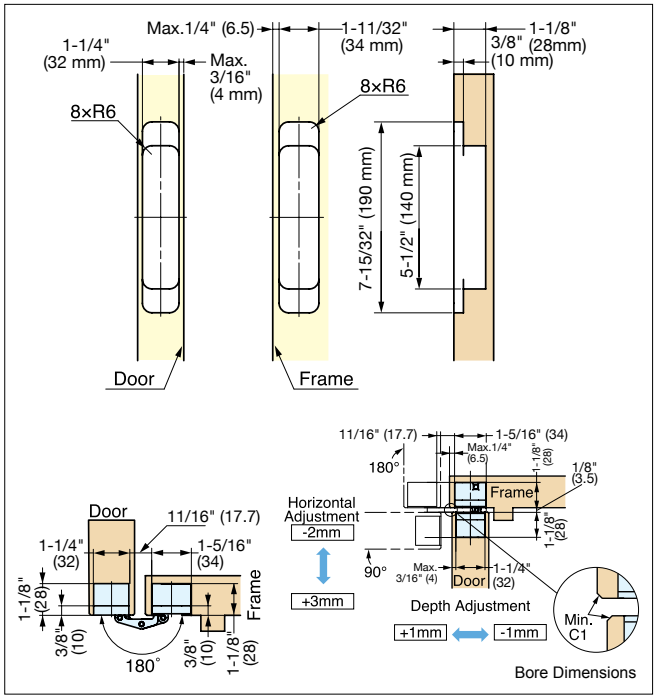


HES3D-E190PN-UL HES3D-E190DC-UL HES3D-E190DN-UL HES3D-E190BL-UL HES3D-E190WT-UL HES3D-E190DGR-UL

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- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation with LIFT-OFF FEATURE: can be split into two parts (one for the frame and one for the flap), can temporarily be hung and hold position without being affixed with screws.
- Successfully passed 300,000 open/close private cycle tests.
- UL Rated, up to 3 Hours
- Supplied with steel flat head screws.
- Covers hide all screw heads for clean appearance.
- Door weight : Max. 220 lbs (100 kg)/2 pcs, 275 lbs (125 kg)/3 pcs.
- Compatible with 1-3/4" (44 mm) Door Thickness.
- Actual Specified Door Thickness : Min. 1-1/2" (38 mm).
- Max. Door Size : H 94-1/2" (2400 mm) x W 36" (914 mm).
- Bracket for sheet metal doors and frames available (sold separately).
- Metal cover plates available for Polished Nickel (PN) finish only, part# HES3D-E190PN-CM (sold separately).





No.	Part Name	Material	Finish/Color
①	Body	Zinc Alloy	Polished Nickel (PN) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) White (WT) Dark Grey (DGR)
②	Base Frame	Zinc Alloy	Polished Nickel (PN) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) White (WT) Dark Grey (DGR)
③	Arm	Aluminum Alloy	Polished Nickel (PN) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) White (WT) Dark Grey (DGR)
④	Pin	304 Stainless Steel	-
⑤	Cover	ABS	Polished Nickel (PN) Dull Chrome (DC) Dull Nickel (DN) Matte Black (BL) White (WT) Dark Grey (DGR)

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HES3D-E190PN-UL	1050	2	12
HES3D-E190DC-UL			
HES3D-E190DN-UL			
HES3D-E190BL-UL			
HES3D-E190WT-UL			
HES3D-E190DGR-UL			

3-WAY ADJUSTABLE CONCEALED HINGE

5×15 STEEL

HES3D-V135LGR-2



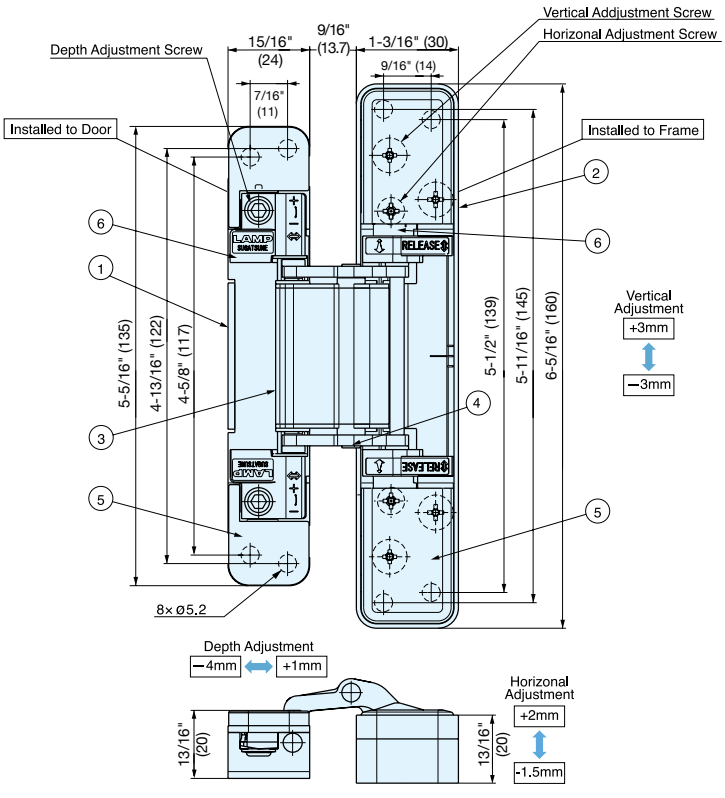
HES3D-V135LGR-2

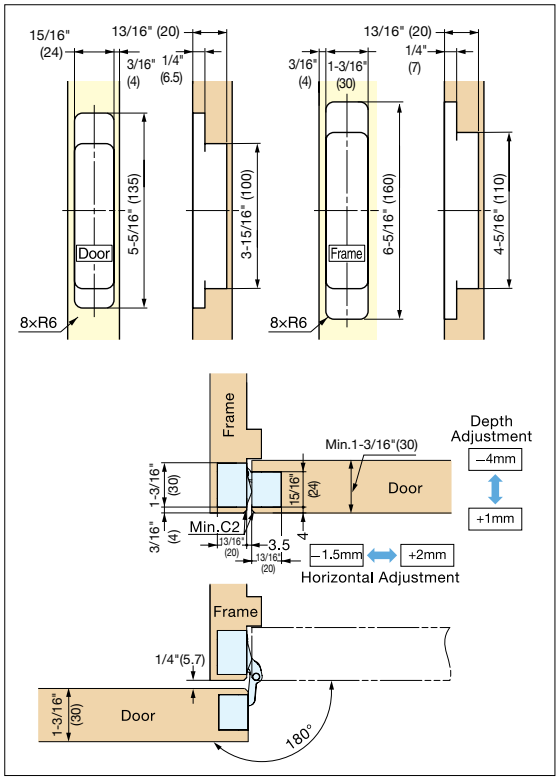
- 3-WAY adjustment function allows vertical, horizontal, and depth adjustment after hinge installed.
- Easy installation and adjustment.
- Successfully passed 300,000 open/close private cycle tests.
- Supplied with steel button head screw.
- Door weight: Max. 88 lbs (40 kg)/2 pcs, 122 lbs (55 kg)/3 pcs
- Door Thickness: Min. 1-3/16" (30 mm)
- Max. Door Size: H 94-1/2" × W 35-7/16" (H 2400 mm × W 900 mm)

Item No.	Finish/Color
HES3D-V135LGR-2	Light Gray

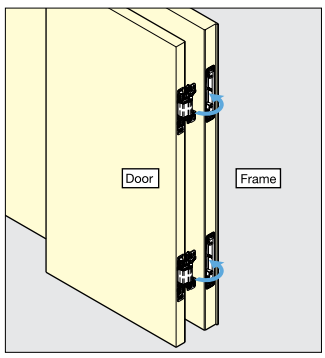
Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HES3D-V135LGR-2	400	2	24

No.	Part Name	Material	Finish/Color
①	Body	Steel	Nickel
②	Base Frame	Polyacetal	Light Grey
③	Arm	Aluminum	Anodized
④	Pin	Steel	Nickel
⑤	Cover	Polyacetal	Light Grey
⑥	Block	Zinc Alloy	Nicklel





Bore Dimensions



Installation

3-WAY ADJUSTABLE CONCEALED HINGE For Door Moldings

RoHS compliant

STEEL

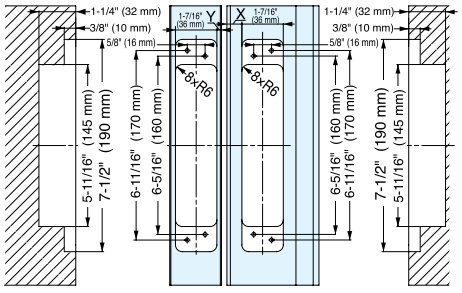
HES3D-W190



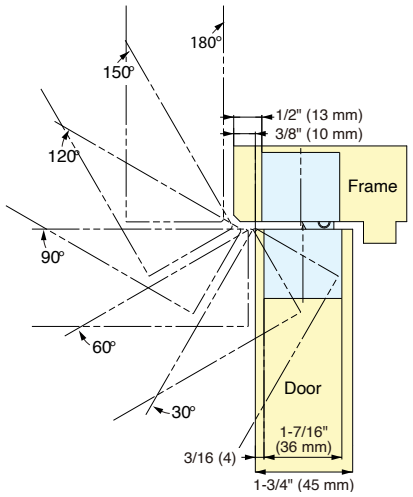
HES3D-W190DC-UL HES3D-W190DN-UL HES3D-W190WT HES3D-W190PN HES3D-W190BL-UL HES3D-W190DGR-UL

- Has a long arm for a wider throw, allowing 3/8" (10 mm) clearance for flush installation or 1/2" (13 mm) clearance for installation with a molding. Opens to 180°.
- Features 3-way adjustability (vertical, horizontal and depth).
- UL Rated, up to 3 Hours (DC, DN, DGR and BL models only)
- Flanges come apart for the door to be provisionally hung for making adjustments. This provides a quick and easy installation when ready for fixing screws.
- Successfully passed 300,000 open/close private cycle tests
- Replacement screw covers available for all finishes.
- Only the HES3D-W190PN model includes metal cover plates*, all other models include plastic cover plates.

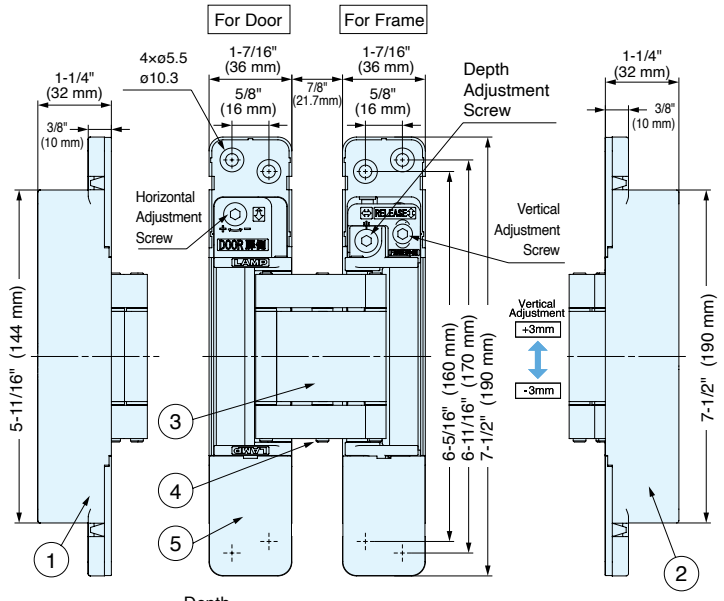
Cut Out Dimension



Please drill prepared holes for the tapping screws if the optional jig (HES3D-W190-TMP) is not used.



The example drawing shows the case that there is a step of 10 mm between the door and the frame.



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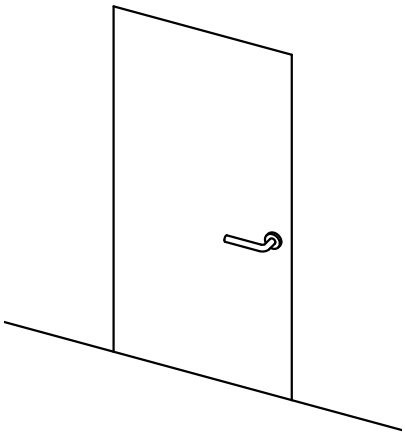
Select models only

No.	Part Name	Material	Finish/Color					
			DC	DN	BL	PN	WT	DGR
1	Body	Zinc Alloy (ZDC)	Satin	Nickel	Enamel Black	Nickel	Enamel White	Dark Grey
2	Base Frame							
3	Arm	Aluminium Allloy						
4	Shaft	Stainless Steel	Plain	Plain	Plain	Plain	Plain	Plain
5	Screw Cover	ABS/Stainless Steel*	Silver	Dull Nickel	Black	Nickel	White	Dark Grey

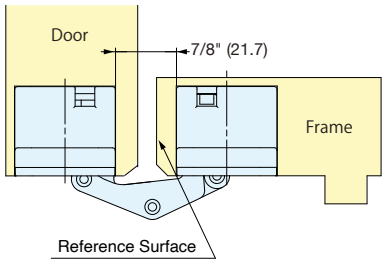
Item Name	Finish	Door Size			Door Weight		Opening Angle	Weight (g)	Box (pcs)	Carton (pcs)
		Width	Height	Thickness	2 pcs	3 pcs				
HES3D-W190DC-UL	Dull Chrome	Max. 36" (915 mm)	Max. 96-1/16" (2440 mm)	Min. 1-5/8" (42 mm)	Max. 220 lbs (100 kg)	Max. 275 lbs (125 kg)	180°	-	2	12
HES3D-W190DN-UL	Dull Nickel									
HES3D-W190BL-UL	Black									
HES3D-W190PN	Polished Nickel									
HES3D-W190WT	White									
HES3D-W190DGR-UL	Dark Gey									

3-WAY ADJUSTABLE CONCEALED HINGE For Cladded Doors HES3D-W190

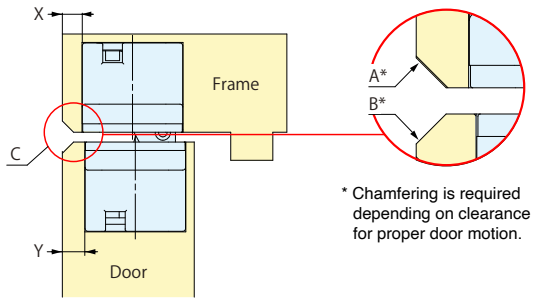
Flush Installation



●Open



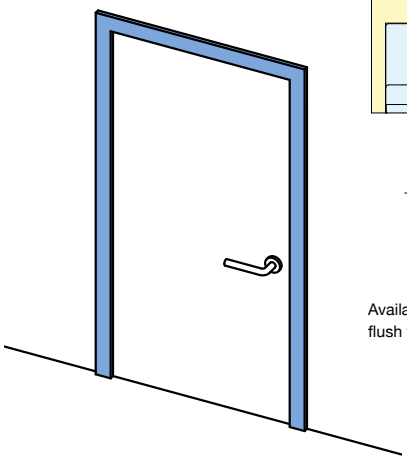
●Closed



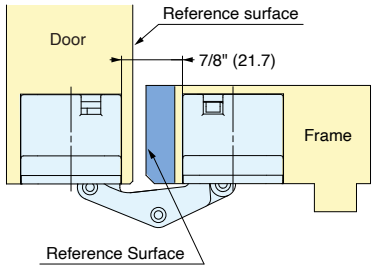
* Chamfering is required depending on clearance for proper door motion.

Y	B	X	A
Door Clearance	Door Chamfering	Frame Clearance	Frame Chamfering
4 and under	0	3 and under	0
5	1	4	1
6	2	5	2
7	3	6	3
8	4	7	4
9	6	8	6

Installation with Molding



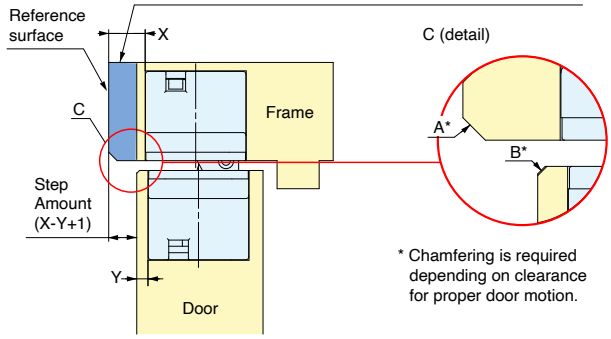
●Open



Available on doors which are not aligned flush to the wall or frame.

●Closed

If something is attached to a frame, for example decorative sheets, please include the thickness into the X.



* Chamfering is required depending on clearance for proper door motion.

Y	B	X	A	X-Y+1
Door Clearance	Door Chamfering	Frame Clearance	Frame Chamfering	Step Amount
3	0	3 to 12	0	1 to 10
		13	1	11
		14	2	12
		15	4	13
4	1	3 to 10	0	0 to 7
		11	1	8
		12	2	9
		13	3	10
		14	4	11
5	2	3 to 6	0	-1 to 2
		7	1	3
		8	2	4
		9	3	5
		10	4	6
	3	11	4	7
		12	5	8
		13	6	9

Y	B	X	A	X-Y+1
Door Clearance	Door Chamfering	Frame Clearance	Frame Chamfering	Step Amount
6	3	3 to 6	0	-2 to 1
		7	1	2
		8	2	3
	4	9	3	4
		10	4	5
		11	5	6
		12	6	7
7	5	3 to 6	0	-3 to 0
		7	1	1
		8	2	2
		9	3	3
		10	5	4
		11	7	5
8	6	3 to 6	0	-4 to -1
		7	1	0
		8	3	1
		9	5	2
		10	7	3

ADJ. CONCEALED HINGE SURFACE MOUNT ON FRAME

STAINLESS RoHS compliant

HES2S-140-A125



Black



Dark Grey

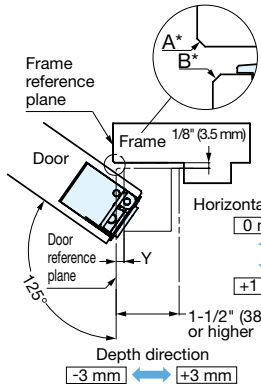


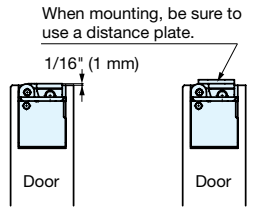
Light Grey

- Surface mounts to the door frame for easy installation.
- Minimum door thickness is 1-1/2" (38 mm) or more.
- Opens to 125°. Door stopper is required to prevent breakage of the hinges and failure of the door.
- Successfully passed 300,000 open/close private cycles.
- Compact and sturdy design combined with an exceptionally simple install.
- Adjustable depth ±1/8" (3 mm), vertical ±1/8" (3 mm), horizontal with spacer ±1/16" (1 mm)

Locus Chart

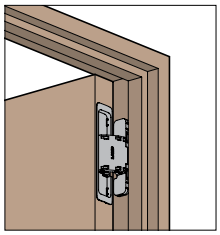
Drill at the * mark in the figure (door/frame corner).





Hinge overhang from door edge (Without cover and distance plate)

Application Image



With front screws not requiring frame side drilling, installation is simple.



Closed



Back

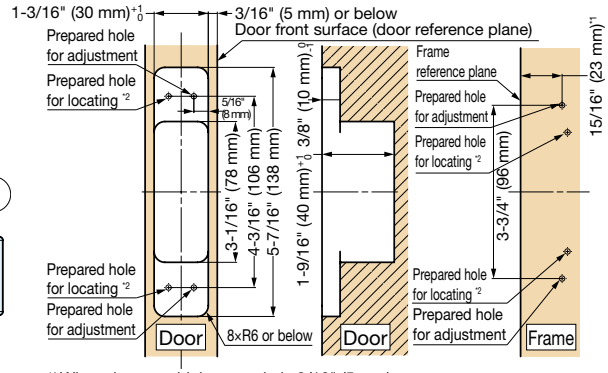


With cover and plate removed

Y: Door Machining Margin	B: Door chamfering	A: Frame chamfering
4 or below	1 or higher	1 or higher
5		

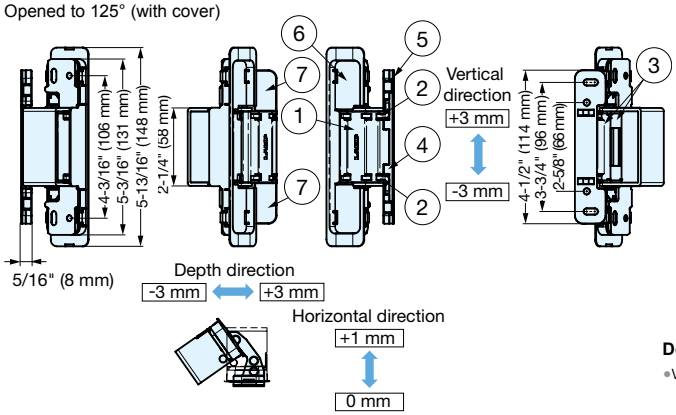
Cut Out Dimensions

Drill pilot holes at the positions of the adjustment and locating screws.



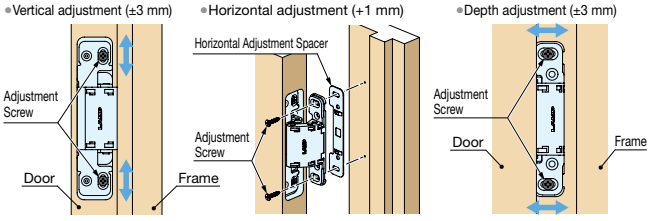
*1 When door machining margin is 3/16" (5 mm).
*2 The position of prepared hole for locating changes according to adjustment.

Opened to 125° (with cover)



No.	Part Name	Material	Finish
①	Body	POM	Dark Grey, Light Grey, Black
②	Base Plate	SPCC	Nickel
③	Arm	Zinc Alloy	Chemical Treatment
④	Mounting Plate	PBT	Dark Grey, Light Grey, Matte Black
⑤	Horizontal Adjustment Spacer	POM	
⑥	Socket Cover	ABS	
⑦	Base Plate Cover		

Door Position Adjustment



Adjust in the vertical/depth directions with oval hole screws and in the horizontal direction with the plate.

Item No.	Color	Door Width	Door Height	Door Thickness	Door Weight/ 2 pcs	Door Weight/ 3 pcs	Opening Angle
HES2S-140-A125-DGR	Dark Grey	Max. 35-7/16" (900 mm)	Max. 106-5/16" (2700 mm)	Min. 1-1/2" (38 mm)	Max. 110 lbs (50 kg)	Max. 143 lbs (65 kg)	125°
HES2S-140-A125-LGR	Light Grey						
HES2S-140-A125-BL	Matte Black						

ADJ. CONCEALED HINGE SURFACE MOUNT ON FRAME

STAINLESS RoHS compliant

HES2S-150-A110





Closed Back



Shown Without Covers

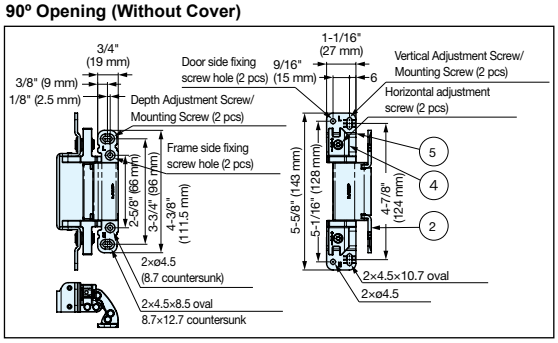
- Surface mounts to the door frame for easy installation.
- Minimum door thickness is 1-3/8" (35 mm) or more.
- Center mounting the hinge on a 1-3/8" (35 mm) door allows the door to be installed as a right-handed or left-handed door.
- 3D Adjustment: Adjust vertically, horizontally, and depth.
- Max opening angle is 110º. Please use door stopper to prevent overextension of hinge.

Application

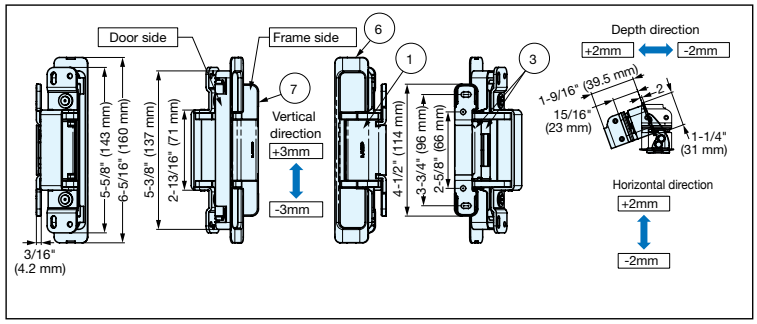


No mortising on the jamb side is required.

90º Opening (Without Cover)



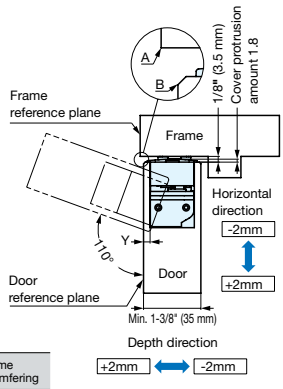
110º Opening (With Cover)



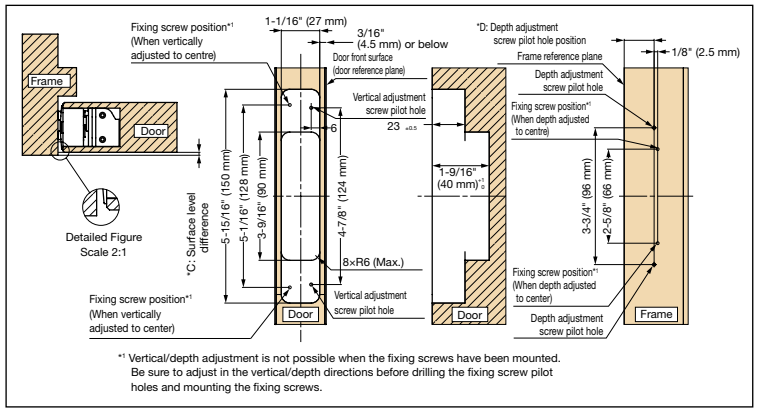
Locus Chart

Drill at the door corner (B). The frame corner (A) can be used even without machining.

Y: Door Machining Margin	B: Door chamfering	A: Frame chamfering
4.5 or below	1 or higher	-



Cut Out Dimensions Drill pilot holes at the positions of the adjustment and locating screws.



*1 Vertical/depth adjustment is not possible when the fixing screws have been mounted. Be sure to adjust in the vertical/depth directions before drilling the fixing screw pilot holes and mounting the fixing screws.

1-3/8" (35 mm) door (machining margin 4 mm)	
*C: Surface level difference	*D: Adjustment screw pilot hole position
0	3/4" (19 mm)
1	13/16" (20 mm)
2	13/16" (21 mm)
3	7/8" (22 mm)
4	15/16" (23 mm)
5	15/16" (24 mm)

No.	Part Name	Material	Finish
①	Body	POM	-
②	Base Plate	SPCC	Chrome
③	Arm	Zinc Alloy	Chemical Treatment
④	Inner Socket		Chrome
⑤	Outer Socket	SPCC	
⑥	Socket Cover	ABS	-
⑦	Base Plate Cover		

Item No.	Color	Door Width	Door Height	Door Thickness	Door Weight/ 2 pcs	Door Weight/ 3 pcs	Opening Angle	Weight (g)	Box (pcs)	Carton (pcs)
HES2S-150-A110-WT	White	Max. 35-7/16" (900 mm)	Max. 106-5/16" (2700 mm)	Min. 1-3/8" (35 mm)	Max. 88 lbs (40 kg)	Max. 110 lbs (50 kg)	110°	272	2	24
HES2S-150-A110-BL	Black									
HES2S-150-A110-WGR	Warm Grey									

3-WAY ADJUSTABLE STAINLESS STEEL CONCEALED HINGE

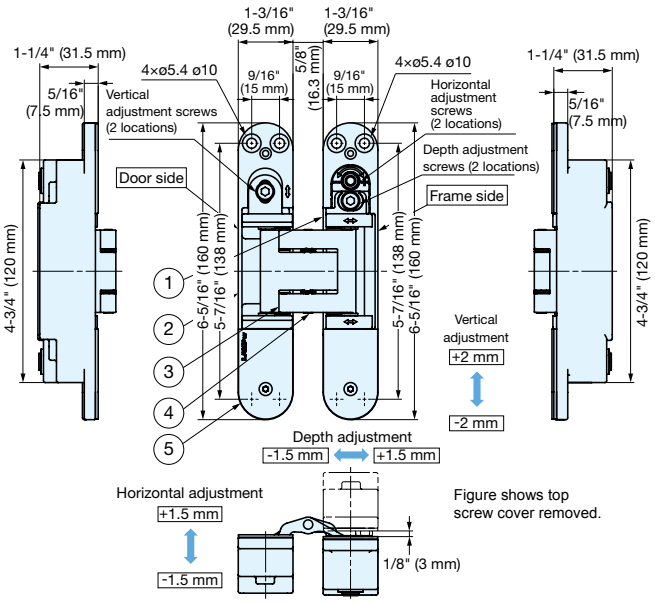
STAINLESS 304 STEEL

HGS3D-S160SH

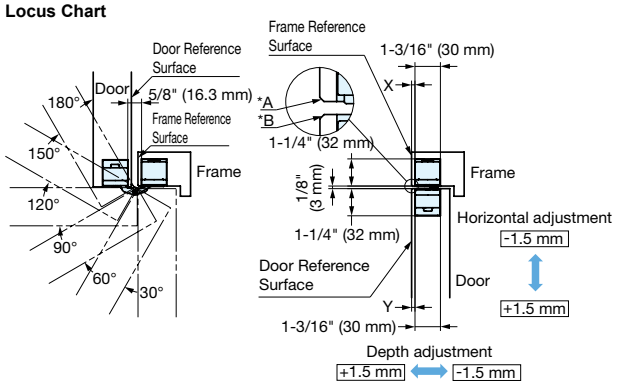


With square screw cover (optional)

- 304 stainless steel construction for excellent resistance to corosion.
- 3-way adjustable allowing for vertical, horizonta and depth adjustments after installation.
- Hinge leaves are designed to seperate and features a temporary hold function making it easier to hang doors.
- Durability: successfully passed 300,000 open/close cycle test (private).
- Includes round screw covers for a clean finish. Optional square shaped covers sold separately (HGS3D-S160SH-SQPLATE).
- 3 hinges can support doors up to 36" x 94" weighing up to 220 lbs.



Locus Chart

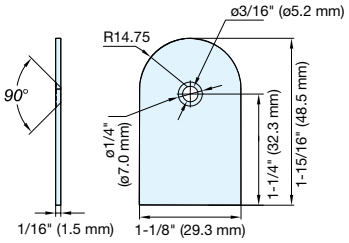


*The door and frame must be chamfered in accordance with the machining margin, in order to open and close the door.

Y: Door Machining Margin	B: Door Chamfering	X: Frame Machining Margin	A: Frame Chamfering
4 or below	1	5 or below	1
	2	6	2
		7	3
5	3	5 or below	
		6	4

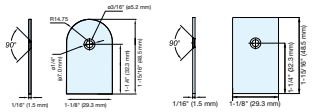
Round Screw Cover



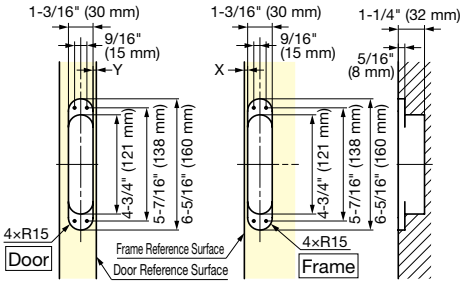


Optional Square Screw Cover





Cut Out Dimensions



*When using the optional square screw cover, drill the first oval hole in both the door and the frame as a square hole of width 1-3/16" (30 mm) × length 6-5/16" (160 mm) × depth 5/16" (8 mm).

No.	Part Name	Material	Finish
①	Body	304 Stainless Steel	Plain
②	Base Frame		
③	Arm		
④	Rotating Shaft		
⑤	Screw Cover (Round Type)		Satin

Body

Item No.	Finish	Door Specs			Load Capacity		Opening Angle
		Width	Height	Thickness	2 pcs	kgf/3 pcs	
HGS3D-S160SH	Satin	Max. 36" (915 mm)	Max. 94" (2387 mm)	Min. 1-7/16" (36 mm)	176 lbs (80 kg)	220 lbs (100 kg)	180°

Round Screw Cover

Item No.	Material	Finish
HGS3D-S160RD-SQPLATE	304 Stainless Steel	Satin

Square Screw Cover (Optional) Sold as a set (4 pcs)

Item No.	Material	Finish
HGS3D-S160SH-SQPLATE	304 Stainless Steel	Satin

CONCEALED HINGE

5×26 STEEL

HES-3038BK

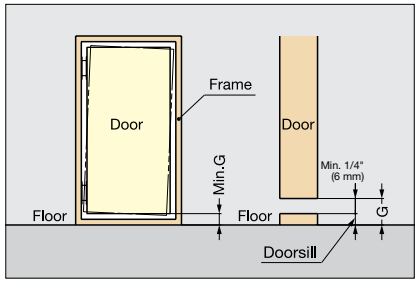
- Door weight: Max. 99 lbs (45 kg)/3 pcs
- Door thickness: Min. 1-7/16" (36 mm)
- Suitable door size: H78-3/4" × W35-7/16" (H2000 mm × W900 mm)
- Successfully passed 200,000 open/close private cycle tests.



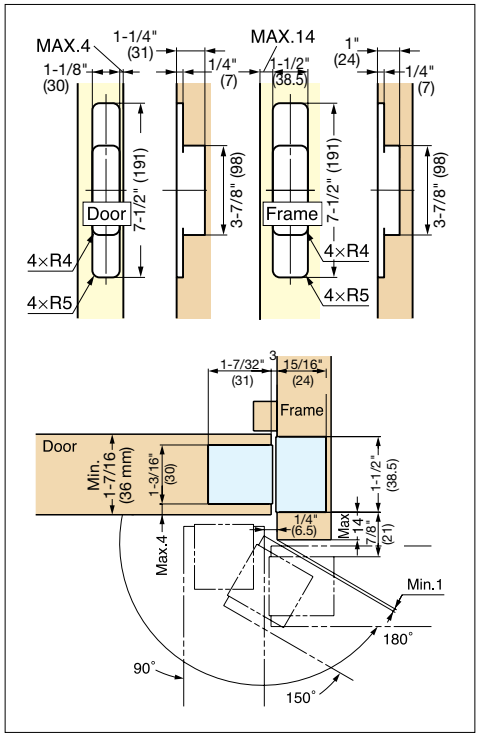
HES-3038BK/PB



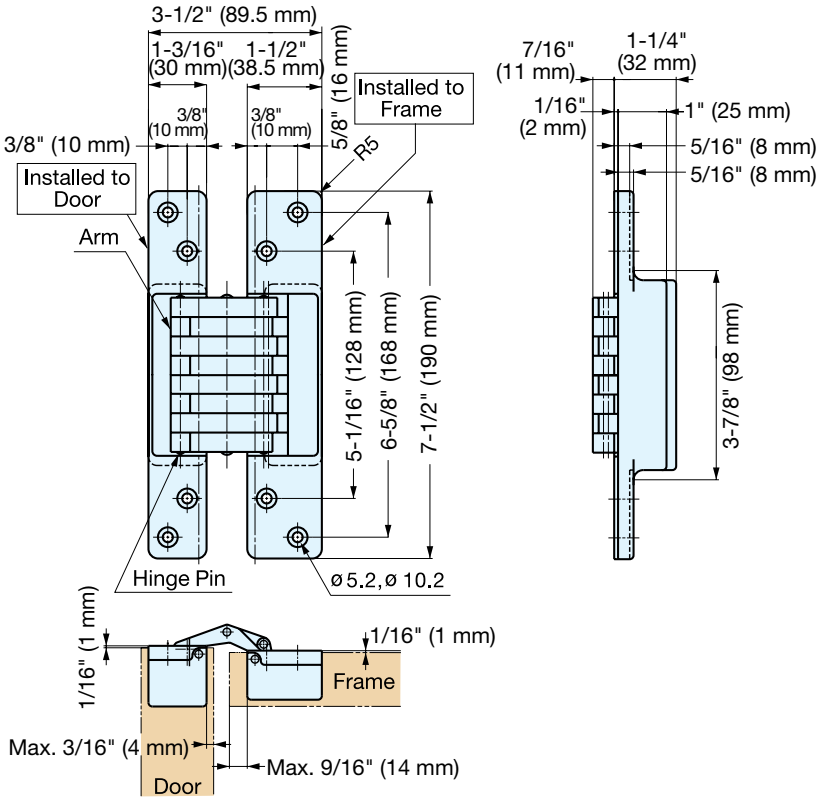
HES-3038BK/SC



To determine the door and frame dimension, (G) must be taken into account.
G = Min. 1/6" (6 mm) + doorsill



Bore Dimensions



Item No.		Weight (g)	Box (pcs)	Carton (pcs)
HES-3038BK/PB	HES-3038BK/SC	1360	2	20

Material	Finish/Color
Brass	Polished Brass (PB) Satin Chrome (SC)

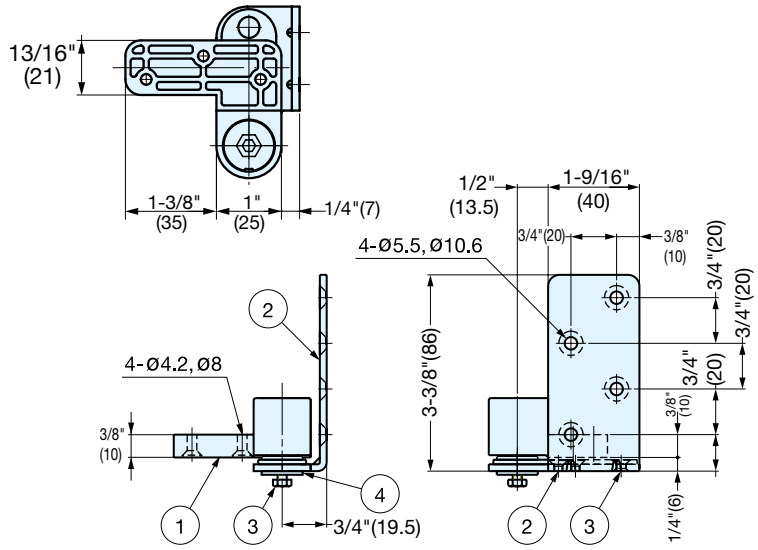
2-WAY ADJUSTABLE PIVOT HINGE

4×30 STEEL

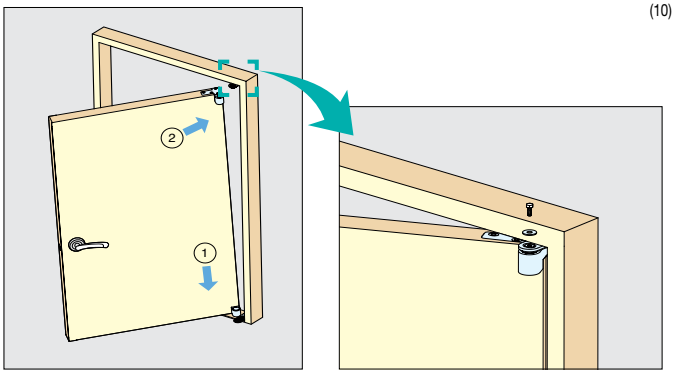
PH-01



- Vertically and laterally adjustable after installed.
- Sold in pairs (top and bottom), non-handed.
- Supplied with wood screw 4 × 30.
- Separate body and bracket for easy installation.
- Door Height: Max. 90-9/16" (2300 mm)
- Door Width: Max. 33-7/16" (850 mm)
- Door Weight: Max. 77 lbs (35 kg)/pair
- Door Thickness: 1-5/16"~1-5/8" (33~42 mm)



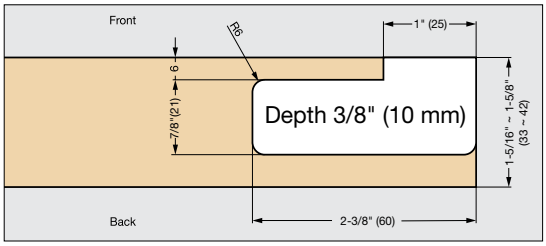
Door Installation



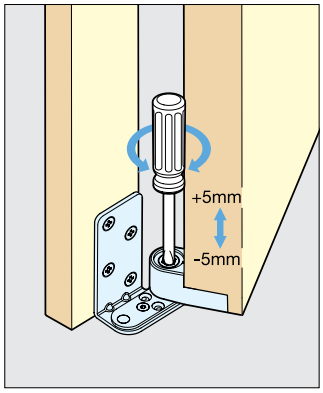
* Gap between door jamb and handle side of door:
3/16 (4 mm)
Door Thickness 1-5/16" ~ 1-5/8"
(33~42 mm)

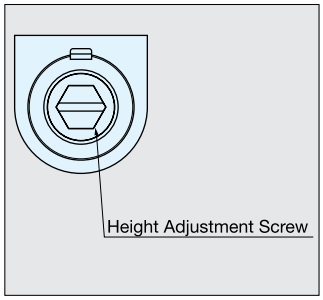
- Install hinge bracket to door frame
- Bolt the door on with supplied screw

Bore Dimensions (Door)



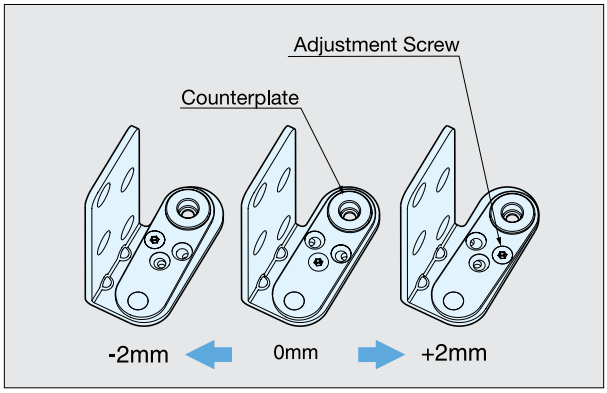
Vertical Adjustment





1. Loosen hex lock ring.
2. Adjust by turning slotted screw.
3. Tighten hex lock ring.

Lateral Adjustment

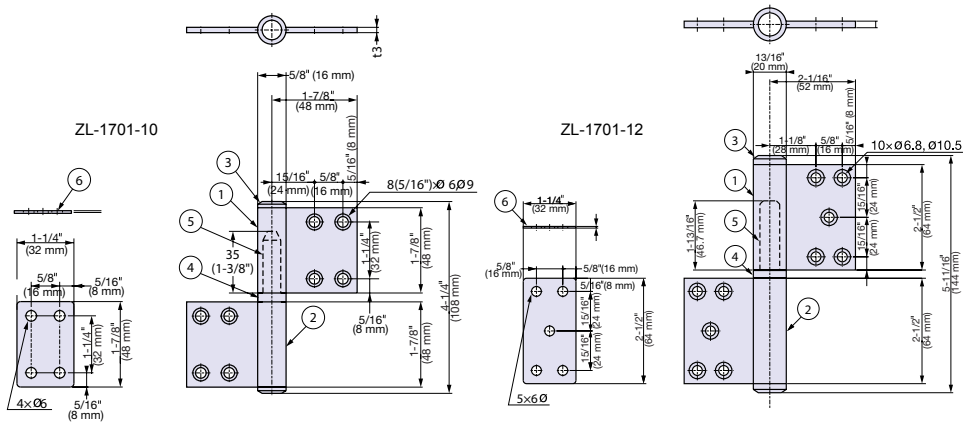


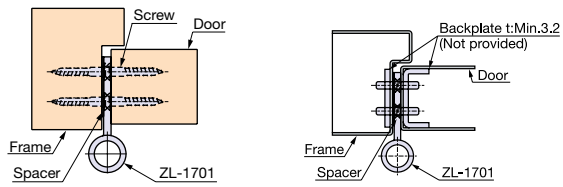
Item No.	Weight (g)	Box (set)	Carton (set)
PH-01	500	1	20

No.	Part Name	Material	Finish/Color
①	Body	Zinc Alloy	Matte Silver
②	Bracket	304 Stainless Steel	Plain
③	Hex Bolt		-
④	Washer		-
⑤	Cap	ABS	White

Zwei L Lift-Off Hinge — ZL-1701







No.	Part Name	Material	Finish/Color
①	Door Side Hinge Plate	316 Stainless Steel	Zwei L
②	Frame Side Hinge Plate		
③	Head Cap		
④	Washer		Satin
⑤	Pin		Plain
⑥	Spacer		

ZL-1701-10: Supplied with stainless steel wood screws (4.1 × 38) and stainless steel screws (M5 × 16, ø8 Head)

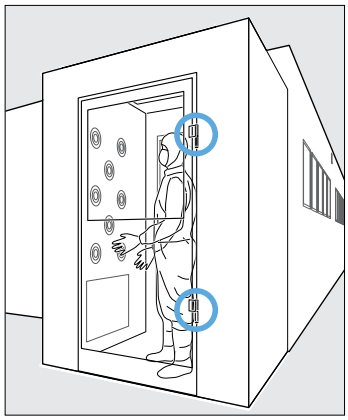
ZL-1701-12: Supplied with stainless steel wood screws (4.8 × 38) and stainless steel screws (M5 × 16, ø9 Head)

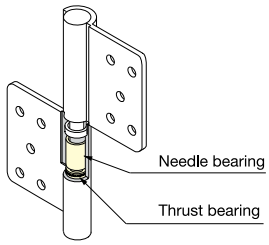
Item No.	Load Capacity	Weight (g)	Box (pcs)
ZL-1701-10	88 lbs (40 kg)/2pcs	380	8
ZL-1701-12	110 lbs (50 kg)/2pcs	430	

HEAVY DUTY CLEAN ROOM LIFT-OFF HINGE — HG-CV127

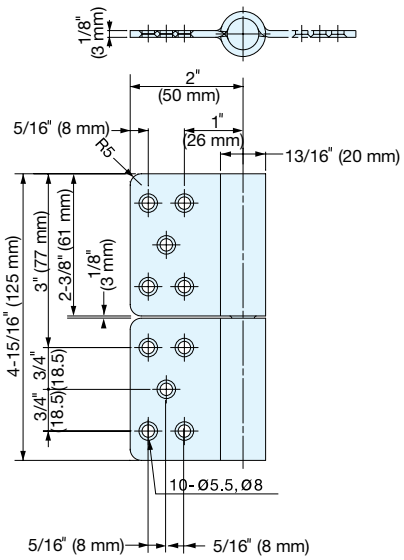


HG-CV127/R





- No metal-to-metal contact.
- Special bearings minimize particles.
- Successfully passed 200,000 open cycle test at the following door size.
  - Door Weight: MAX.220 lbs/pair (100 kg/pair)
  - Door Height: MAX. 78-3/4" (2,000 mm)
  - Door Width: MAX. 35-7/16" (900 mm)



Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HG-CV127/L	388	5	50
HG-CV127/R			

Material	Finish
304 Stainless Steel	Satin/Polished

LIFT-OFF HINGE (WELD-ON)

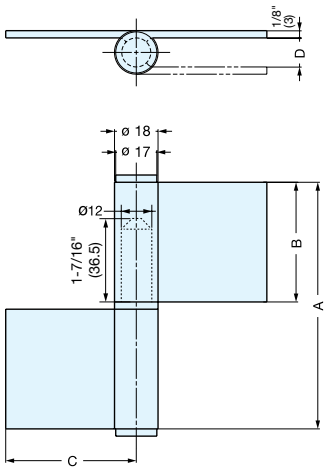
NSF COMPONENT | STAINLESS 304 STEEL

S-6166-2



Right Left

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



Material	Finish
304 Stainless Steel	Satin

Item No.		A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right							
S-6166-2-L	S-6166-2-R	4" (102)	1-5/16" (49.5)	2-3/16" (55)	1/2" (12)	300	12	60

LIFT-OFF HINGE (WELD-ON)

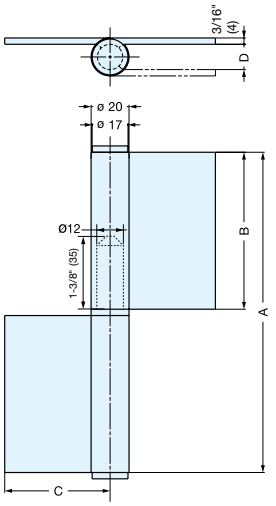
NSF COMPONENT | STAINLESS 304 STEEL

S-6166-6



Right Left

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



Material	Finish
304 Stainless Steel	Satin

Item No.		A	B	C	D	Weight (g)	Box (pcs)	Carton (pcs)
Left	Right							
S-6166-6-L	S-6166-6-R	6" (152)	2-15/16" (74.5)	2-3/16" (55)	1/2" (12)	570	8	40

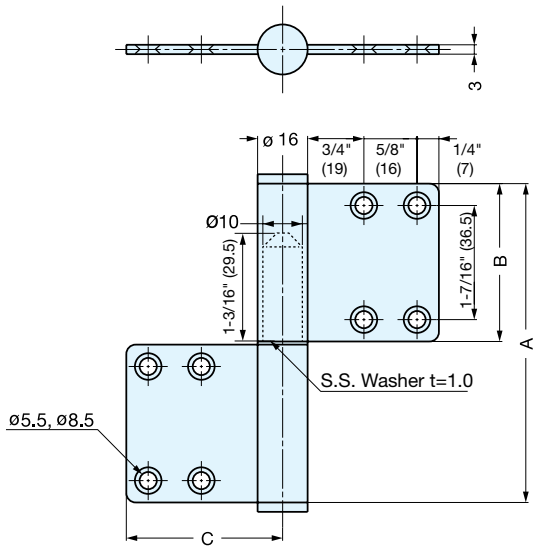
LIFT-OFF HINGE

NSF COMPONENT | STAINLESS 304 STEEL | 4.1×20 STAINLESS

S-6173-2



- Screw hole is countersunk from both sides.
- Non-handed.
- Door weight: Max. 88 lbs/pair (40 kg/pair)



Material	Finish
304 Stainless Steel	Satin

Item No.	A	B	C	Weight (g)	Box (pcs)	Carton (pcs)
S-6173-2	4" (102)	2" (50.5)	2" (50)	240	12	60

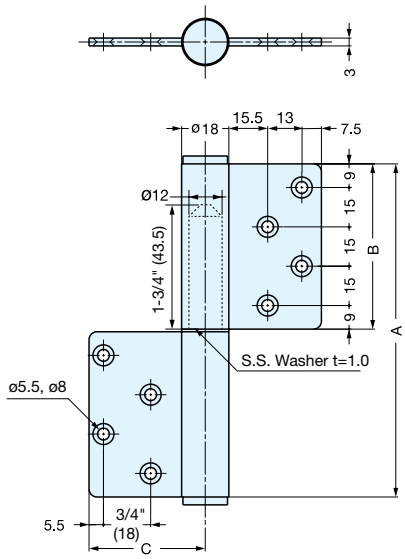
LIFT-OFF HINGE

NSF COMPONENT | STAINLESS 304 STEEL | 3.8×20 STAINLESS

S-6173-5



- Screw hole is countersunk from both sides.
- Non-handed.
- Door weight: Max. 110 lbs/pair (50 kg/pair)



Material	Finish
304 Stainless Steel	Satin

Item No.	A	B	C	Weight (g)	Box (pcs)	Carton (pcs)
S-6173-5	5" (127 mm)	2-1/2" (63 mm)	1-3/4" (45 mm)	330	8	40

BUTT HINGE

NSF COMPONENT | RoHS compliant | STAINLESS 304 STEEL | 4.5×25 5.5×32 STAINLESS

3535/SS, 4040/SS



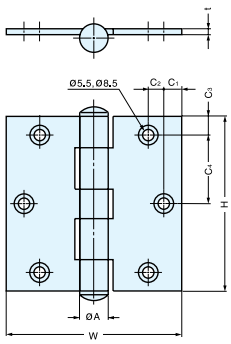
3535/SS



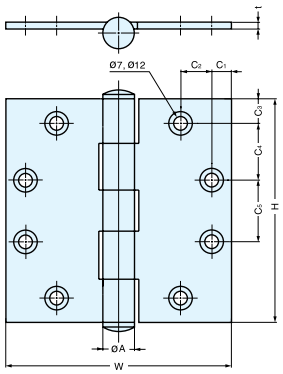
4040/SS

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

3535/SS



4040/SS



Material	Finish
304 Stainless Steel	Satin

Item No.	H	W	C_1	C_2	C_3	C_4	C_5	A	t	Weight (g)	Box (pcs)	Carton (pcs)
3535/SS	3-1/2" (89.0)	3-1/2" (89.0)	3/8" (9.1)	5/16" (8.0)	3/8" (9.1)	1-3/8" (35.4)	-	9/16" (14.0)	1/8" (3.0)	145	2	50
4040/SS	4" (101.6)	4" (101.6)	3/8" (9.5)	3/8" (9.5)	1/2" (13.0)	1" (25.5)	1" (24.6)	9/16" (14.8)	1/8" (3.4)	195		50



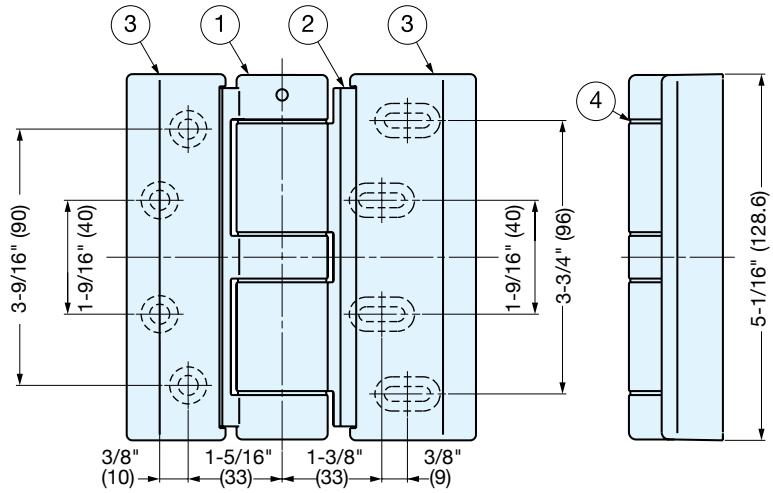
DETENT HINGE

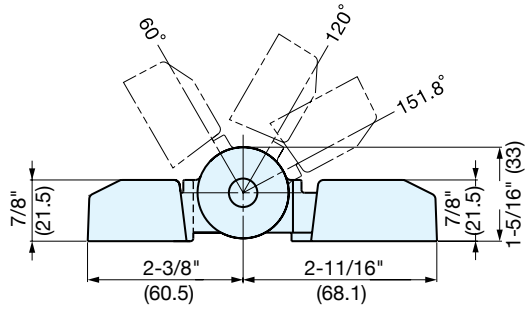
RoHS compliant NO SCREW

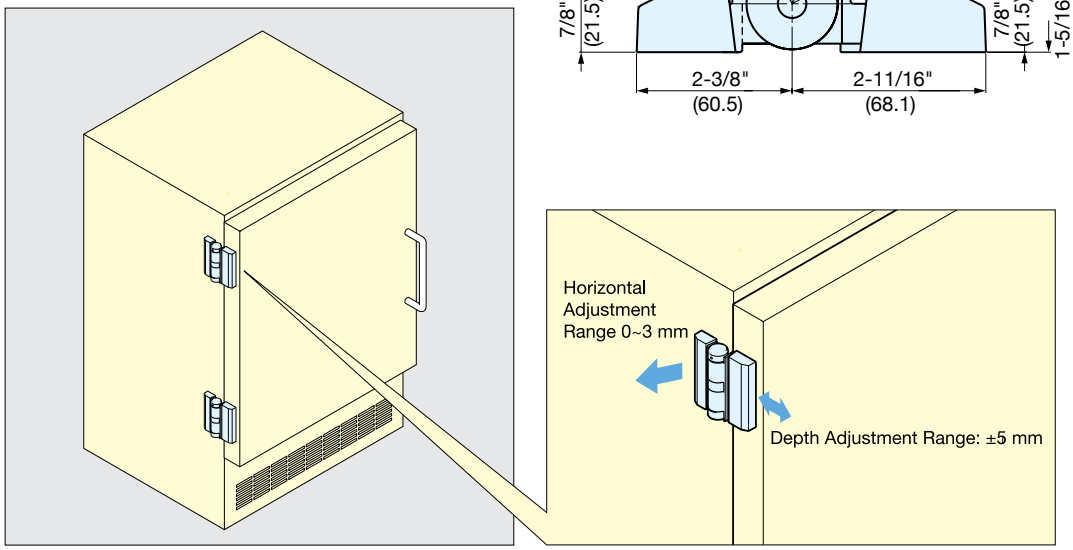
HG-FH-128



- Ideal for doors which need to be compressed.
- Horizontally adjustable for better compression.
- Holds doors at 60° and 120°
  Max. Open: 152°
- Plastic washer provides smooth movement.
- Recommended door specification:
  Width: 600 ~ 900 mm (24" ~ 36")
  Height: 900 ~ 1200 mm (36" ~ 48")
  Weight: maximum 88 lbs (40 kg) for 2 hinges
- Retaining Force: 102 kgf·cm (224 lbs·in)







Installation

Item No.	Weight (g)	Box (pcs)	Carton (pcs)
HG-FH-128	1500	2	10

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

SPRING HINGE

STAINLESS 304 STEEL | ALUMINUM | STAINLESS

JSA



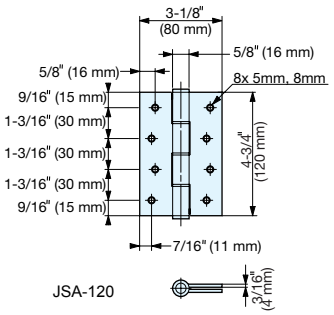
JSA-120A

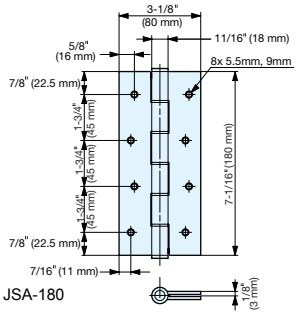


JSA-180S

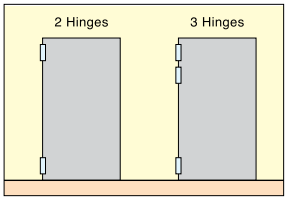


- Spring loaded for self closing.
- Adjustable spring tension.
- Successfully passed 500,000 open/close private cycle tests.

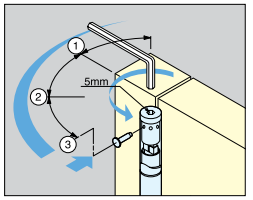




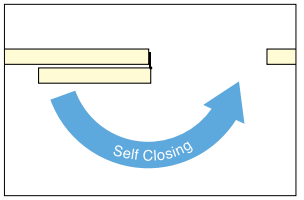
Installation



Adjustable Spring Tension



Self Closing



Item No.	D	t	d_1	d_2	Load Capacity		Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
					2 Hinges	3 Hinges					
JSA-120A	5/8" (16)	3/16" (4.0)	3/16" (5.0)	5/16" (8)	44 lbs (20 kg)	66 lbs (30 kg)	175	2	20	Aluminum	Anodized
JSA-180A					88 lbs (40 kg)	132 lbs (60 kg)	260				
JSA-120S	11/16" (17)	1/8" (2.5)	1/4" (5.5)	3/8" (9)	44 lbs (20 kg)	66 lbs (30 kg)	303			304 Stainless Steel	Satin
JSA-180S	11/16" (18)	1/8" (3.0)			88 lbs (40 kg)	132 lbs (60 kg)	526				

SPRING HINGE

STAINLESS 304 STEEL | STAINLESS

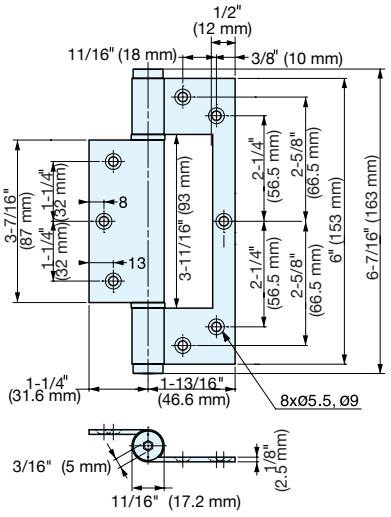
JST-150S



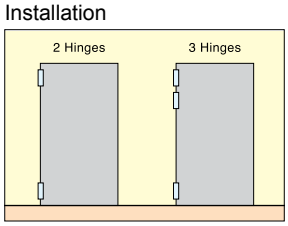
JST-150S



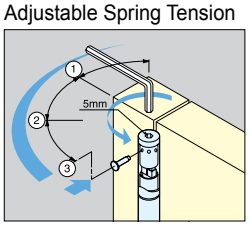
- Spring loaded for self closing.
- Adjustable spring tension.
- Successfully passed 500,000 open/close private cycle tests.



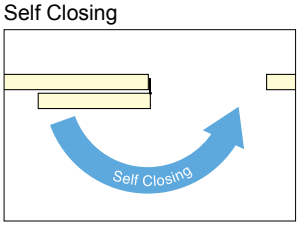
Installation



Adjustable Spring Tension



Self Closing



Item No.	Load capacity		Weight (g)	Box (pcs)	Carton (pcs)
	2 Hinges	3 Hinges			
JST-150S	88 lbs (40 kg)	132 lbs (60 kg)	336	2	20

Material	Finish
304 Stainless Steel	Satin

DOUBLE ACTION SPRING HINGE

JDA



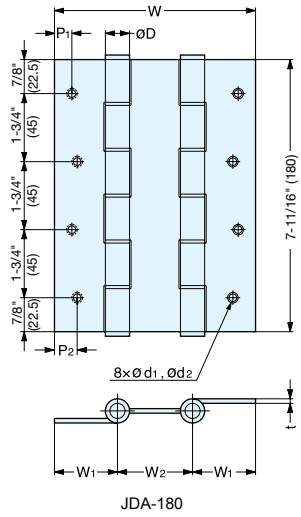
JDA-120-30A



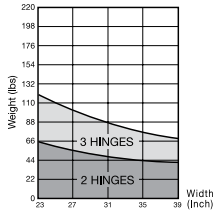
JDA-180-38S

- Spring loaded for self closing.
- Adjustable spring tension.
- Successfully passed 500,000 open/close private cycle tests.

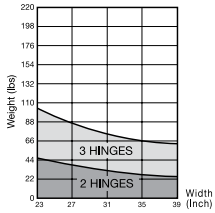




JDA-180



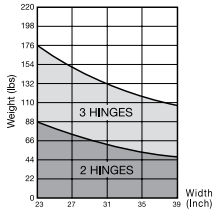
JDA-120-30A



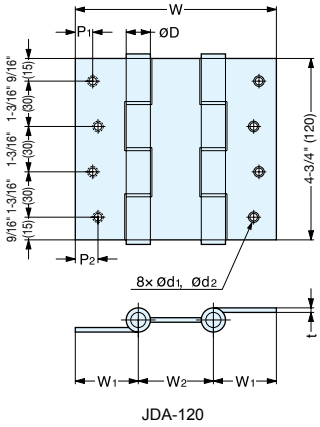
JDA-120-40A
JDA-120-36S



JDA-180-30A



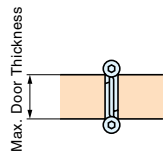
JDA-180-40A
JDA-180-38S



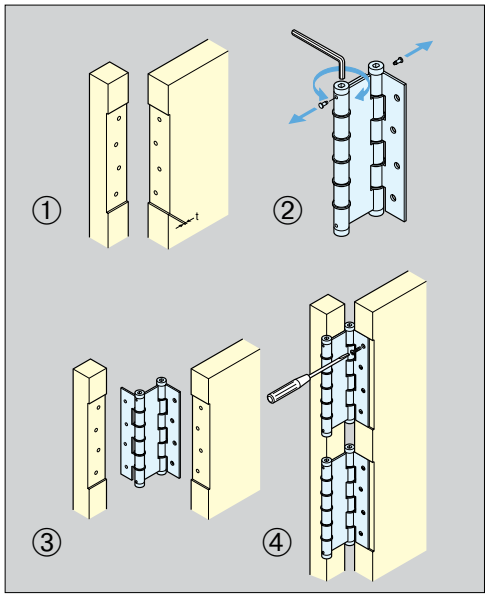
JDA-120



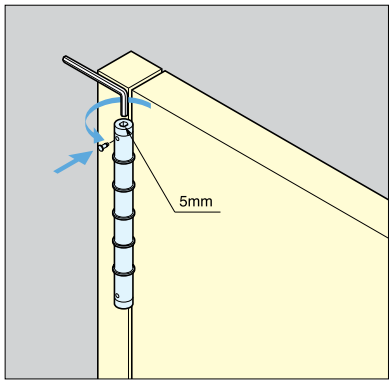
JDA-180-50A



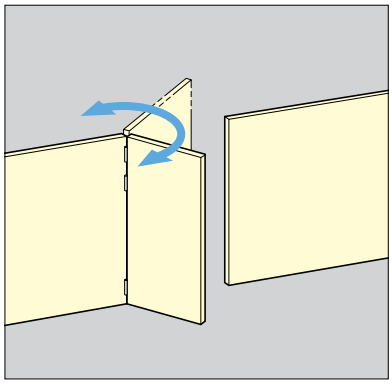
Installation



Adjustable Spring Tension



Double Action Spning Hinges



Item No.	W	W1	W2	P1	P2	D	t	d1	d2	Max. Door Thickness	Weight (g)	Material	Finish	Box (pcs)	Carton (pcs)
JDA-120-30A	4" (101)	1-3/16" (29.5)	1-5/8" (42)	1/4" (6.5)	7/16" (11.5)	5/8" (16)	3/16" (4.0)	3/16" (5.0)	5/16" (8)	1-3/16" (30)	275	Aluminum	Anodized	2	20
JDA-120-40A	5-1/4" (133)	1-9/16" (40.0)	2-1/16 (53)	7/16" (11.0)	5/8" (16.0)					1-9/16" (40)	320				
JDA-180-30A	4" (101)	1-3/16" (29.5)	1-5/8" (42)	1/4" (6.5)	7/16" (11.5)					1-3/16" (30)	407				
JDA-180-40A	5-1/4" (133)	1-9/16" (40.0)	2-1/16 (53)	7/16" (11.0)	5/8" (16.0)					1-9/16" (40)	466				
JDA-180-50A	6-3/16" (157)	1-15/16" (48.5)	2-3/8 (60)	3/4" (19.5)	15/16" (24.5)					2" (50)	510				
JDA-120-36S	5-1/4" (133)	1-9/16" (40.0)	2-1/16 (53)	7/16" (11.0)	5/8" (16.0)	11/16" (17)	1/8" (2.5)	1/4" (5.5)	3/8" (9)	1-7/16" (36)	555	304 Stainless Steel	Satin		
JDA-180-38S						11/16" (18)	1/8" (3.0)			1-1/2" (38)	947				

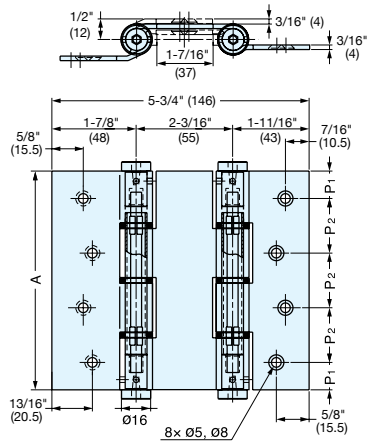
DOUBLE ACTION SPRING HINGE

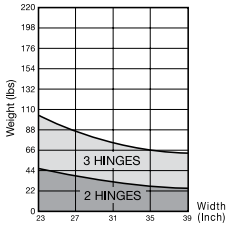
ALUMINUM NO SCREW

JDAW

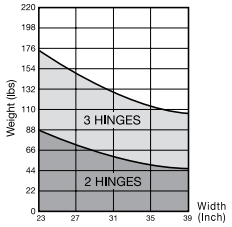


JDAW-120-35A



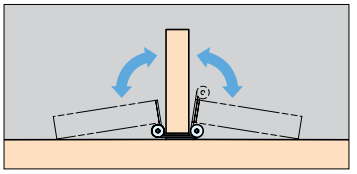


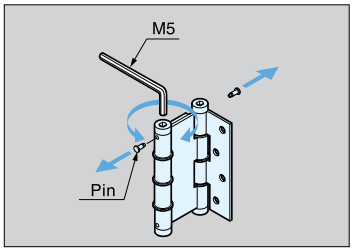
JDAW-120



JDAW-180

- Spring loaded for self closing.
- Adjustable spring tension.
- Requires 8 #8 flathead countersunk screws, 3/4" or longer. (not included)





Spring Adjustment

Item No.	A	P_1	P_2	Door Thickness	Weight (g)	Box (pcs)	Carton (pcs)	Material	Finish
JDAW-120-35A	4-3/4" (120)	9/16" (15)	1-3/16 (30)	1-3/8" (35 mm)	350	2	20	Aluminum	Anodized
JDAW-180-35A	7-1/16" (180)	7/8" (22.5)	1-3/4 (45)						

OTHER SPRING HINGES FOR SMALL DOORS AND CABINETRY



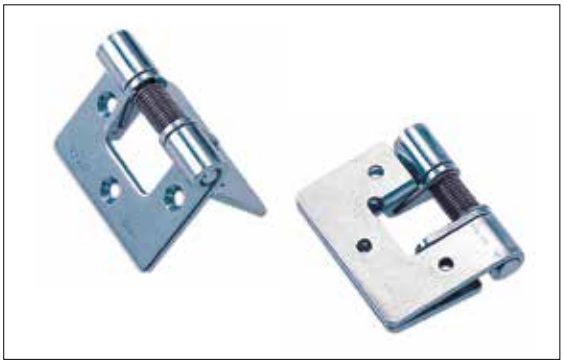
HG-SH P. 225



HG-SHL P. 225



HG-PV60AC P. 227



HG-BF3 P. 227

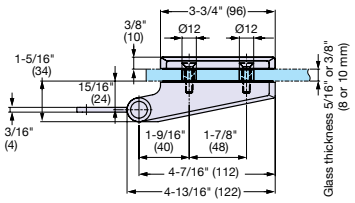
Zwei L Glass Door Hinge

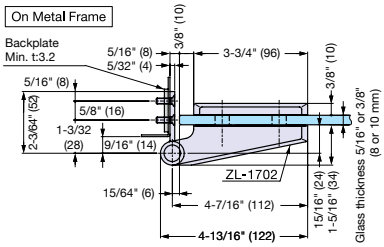
STAINLESS 316 STEEL | 4.8×32 M5×16 STAINLESS

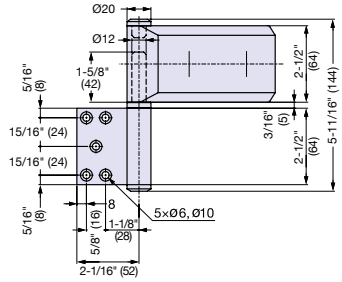
ZL-1702

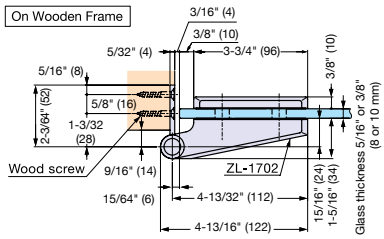


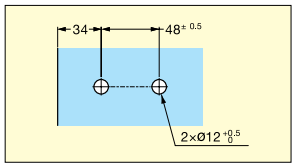
- Supplied with stainless steel wood screw (4.8 × 32) and stainless steel screw (M5 × 16).



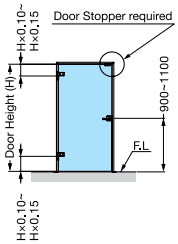








Cut Out Dimensions



Item No.	Material	Finish/Color	Glass Thickness	Load Capacity/pair	Max Door Size (mm)	Weight (g)	Box (pcs)
ZL-1702	316 Stainless Steel	Zwei L	5/16"~3/8" (8~10 mm)	110 lbs (50 kg)	H98-7/16" × W35-7/16" (H2500 × W900)	806	2

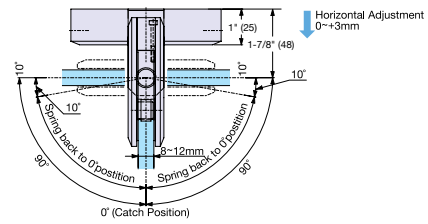
Zwei L Glass Door Hinge

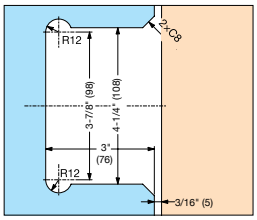
STAINLESS 316 STEEL | 6.2×56 STAINLESS

ZL-1703

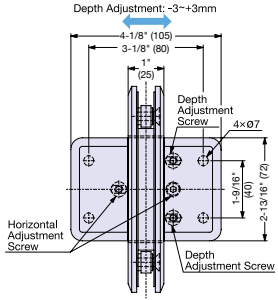


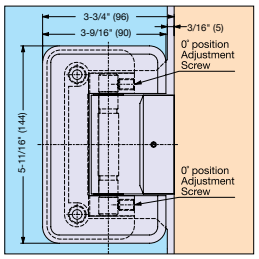
- Supplied with stainless steel screws (6.2 × 56), anchor plug and two allen keys (2.5 and 4 mm).





Cut Out Dimensions





Installation

Item No.	Glass Thickness	Load Capacity/pair	Max Door Size	Weight (g)	Box (pcs)
ZL-1703	5/16"~1/2" (8~12 mm)	143 lbs (65 kg)	H98-7/16" × W39-3/8" (H2500 × W1000)	-	1

Part Name	Material	Finish/Color
Bracket	316 Stainless Steel	Zwei L
Face Plate		
Bracket Cover		
Gasket	Synthetic Rubber	Black

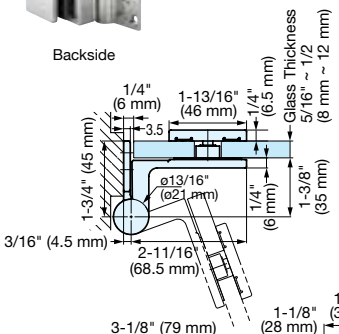
STAINLESS STEEL GLASS DOOR GRAVITY HINGE GH-G02SH



GH-G02SH-SM-L

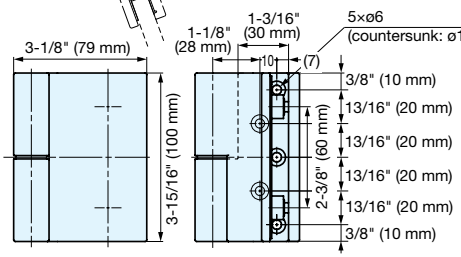


Backside





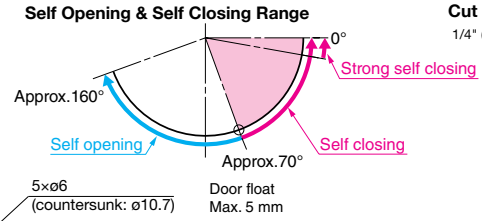
GH-G02SH-BL-L



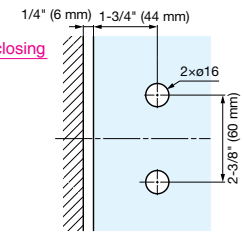
Left-hand opening shown.
Right-handed opening is symmetrical.

- Can be used in areas exposed to water such as shower booths.
- Automatically closes from 70° using door weight and gravity.
- The strong self-closing force ensures secure door closure; eliminating the chance of unintended opening due to uneven air pressure.
- Automatically opens between 70°to 160°. The door can be held open by using a door stopper in this area.

Self Opening & Self Closing Range



Cut Out Dimensions



Material	Finish
SCS13 Stainless Steel	Mirror, Black

Item No.	Type	Glass Thickness	Door Specs				Load Capacity		Opening Angle
			Width/ 2 pcs	Height/ 2 pcs	Width/ 3 pcs	Height/ 3 pcs	2 pcs	3 pcs	
GH-G02SH-SM-R	Right	5/16" ~ 15/32" (8 ~ 12 mm)	Max. 31-1/2" (800 mm)	Max. 82-11/16" (2100 mm)	Max. 33-7/16" (850 mm)	Max. 94-1/2" (2400 mm)	99.2 lbs (45 kg)	110.2 lbs (50 kg)	160°
GH-G02SH-SM-L	Left								
GH-G02SH-BL-R	Right								
GH-G02SH-BL-L	Left								

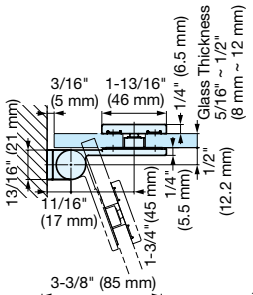
STAINLESS STEEL GLASS DOOR GRAVITY HINGE GH-G07SH



GH-G07SH-SM-L

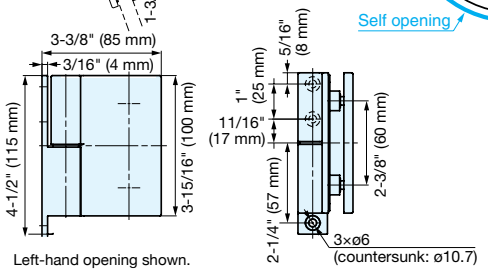


Backside





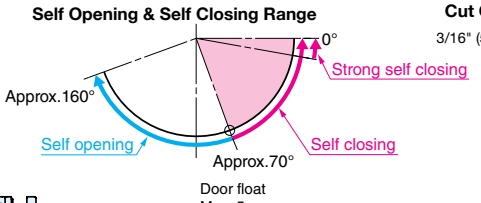
GH-G07SH-BL-L



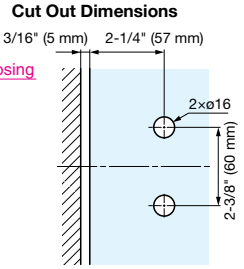
Left-hand opening shown.
Right-handed opening is symmetrical.

- Can be used in areas exposed to water such as shower booths.
- Automatically closes from 70° using door weight and gravity.
- The strong self-closing force ensures secure door closure; eliminating the chance of unintended opening due to uneven air pressure.
- Automatically opens between 70°to 160°. The door can be held open by using a door stopper in this area.

Self Opening & Self Closing Range



Cut Out Dimensions



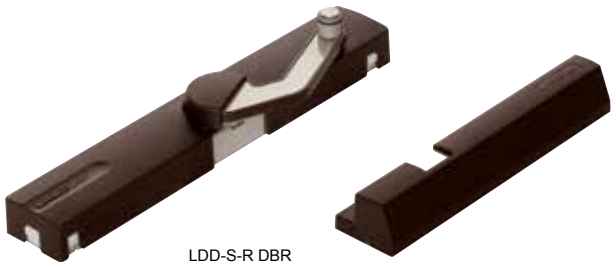
Material	Finish
SCS13 Stainless Steel	Mirror, Black

Item No.	Type	Glass Thickness	Door Specs				Load Capacity		Opening Angle
			Width/ 2 pcs	Height/ 2 pcs	Width/ 3 pcs	Height/ 3 pcs	2 pcs	3 pcs	
GH-G07SH-SM-R	Right	5/16" ~ 15/32" (8 ~ 12 mm)	Max. 31-1/2" (800 mm)	Max. 82-11/16" (2100 mm)	Max. 33-7/16" (850 mm)	Max. 94-1/2" (2400 mm)	99.2 lbs (45 kg)	110.2 lbs (50 kg)	160°
GH-G07SH-SM-L	Left								
GH-G07SH-BL-R	Right								
GH-G07SH-BL-L	Left								





LAPCON DOOR DAMPER (SURFACE MOUNT TYPE) LDD-S



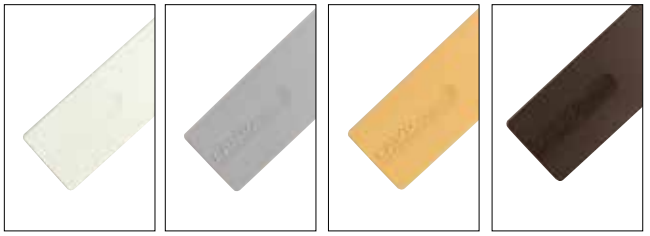
LDD-S-R DBR
(Right - handed)

- Door damper unit for interior, swinging doors.
- Grips door at final 15° and softly, self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- Surface mounting allows hardware to be added to existing doors.
- Recommended Door Specifications:
  Width: Max. 36" (914 mm)
  Weight: 33~88 lbs (15~40 kg)
- Can be adjusted for door weight after installation. Damper function can also be switched off.
- Slim, unobtrusive design: damper unit is just ¾" high, easily fitting most door frames.
- Available in 4 colors to match your door, specify White (WT), Light Grey (LGR), Light Brown (LBR), or Dark Brown (DBR).
- Can be used with HES hinges (P.180~189), sold separately.
- Includes screws for installation.

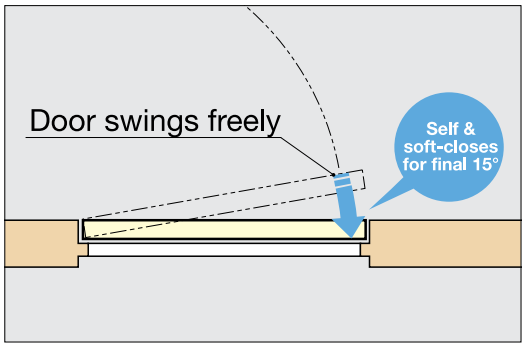


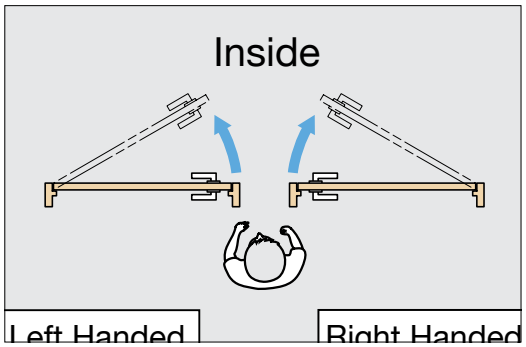


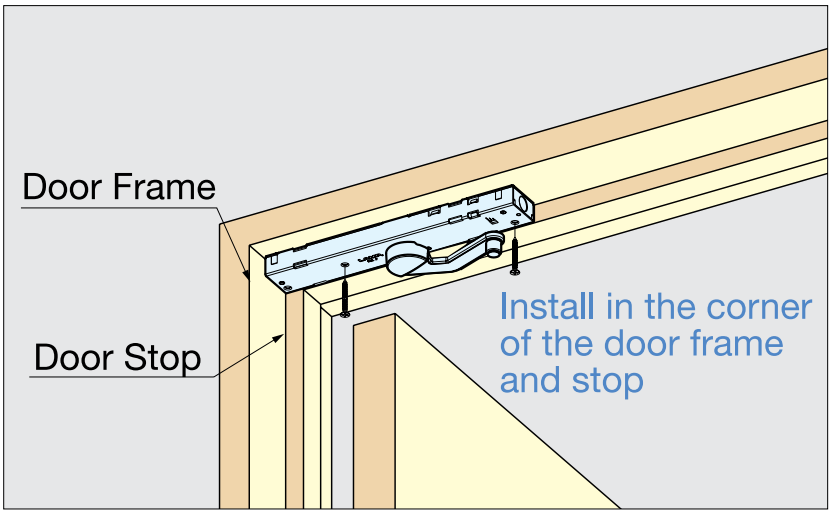
■ Available in the following colors:



White | Light Gray | Light Brown | Dark Brown





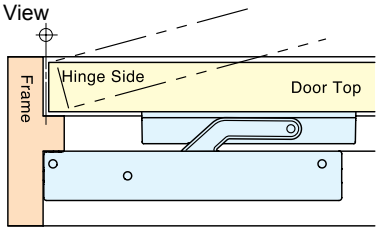


■ Installation & Adjustment

Item No.	Handing	Retaining Force	Weight	Box (pc)	Carton (pcs)
LDD-S-L	Left	2.2 lbsf (9.8 N)	1.2 lbs (0.55 kg)	1	50
LDD-S-R	Right				

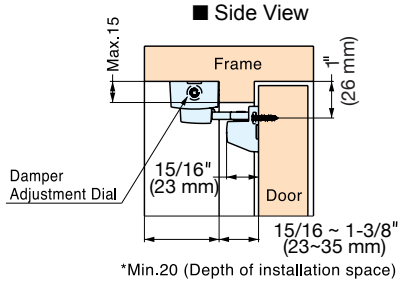
Component	Material	Finish/Color
Main Body	Steel, Zinc Alloy	Plain
Counter Plate		
Covers	ABS	White (WT), Light Grey (LGR), Light Brown (LBR), Dark Brown (DBR)

■ Top View



*Top view shows mounting position of hardware in case of depth of installation space is min. 1" (25 mm).
If the dimention is between 13/16" and 1" (20 mm and 25 mm), please move damper 1" (25 mm) away from hinge side. Then please use screw hole C and Extra hole to install damper instead of screw hole B.

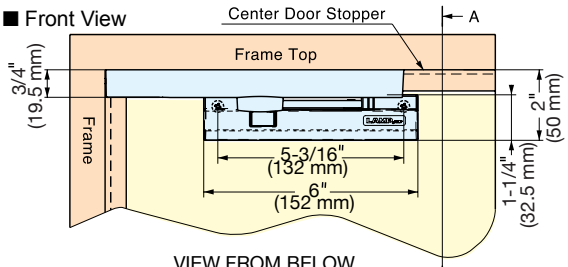
■ Side View



*Min.20 (Depth of installation space)

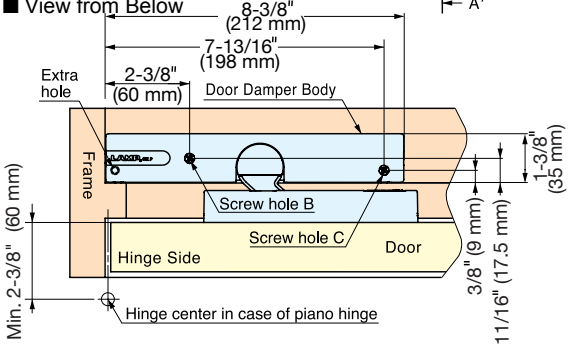
FRONT VIEW

■ Front View



VIEW FROM BELOW

■ View from Below



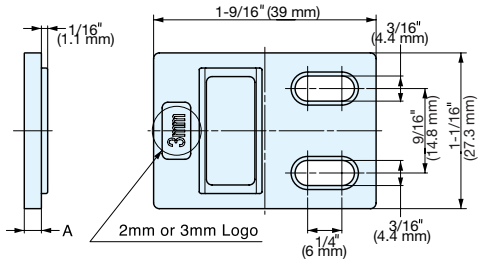
Please take the following precautions when considering this hardware for your application:

- For interior use at room temperature (32~104°F, 0~40°C) only-not intended for use under high winds, high temperature or humidity, or where the hardware may get wet.
- Effectiveness may decrease over time if door is slammed closed continuously.
- Closing performance may vary depending on door latch bolt.
- If being used at the entrance of a room where air cannot move freely (vault, cellar, etc.), the ambient air pressure may affect the closing speed and power of the hardware.
- Do not hang on/hang anything on the arm as it may damage the hardware.
- Please read the installation instructions included with the hardware fully before installation.
- After installation and during normal use, please check the fasteners and hardware on a regular basis.

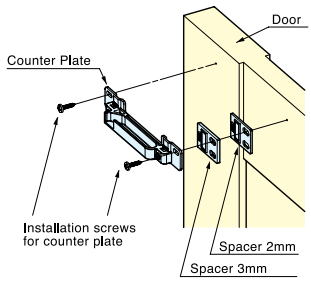
SPACER FOR LDD-S

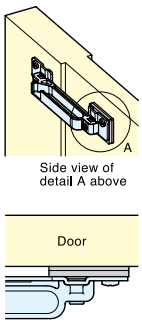
LDD-S-P

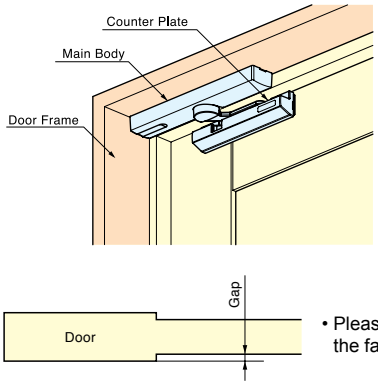




- Spacer to install LDD-S counter plate (P. 200, sold separately) on uneven door surfaces, such as those on panel doors.
- Available in 1/16" (2 mm) and 1/8" (3 mm) thicknesses. Mix and match spacers for varying thicknesses.
- Spacers still allow micro adjustments to be made for the main unit.







- Please confirm difference between the face of the door panel, etc.

Item No.	A	Weight (g)	Box (pcs)	Carton (pcs)
LDD-S-P2 BL	1/16" (2 mm)	1.8	100	1000
LDD-S-P3 BL	1/ 8" (3 mm)	2.8		

Material	Color
ABS	Black

LAPCON DOOR DAMPER (RECESSED TYPE) LDD-V



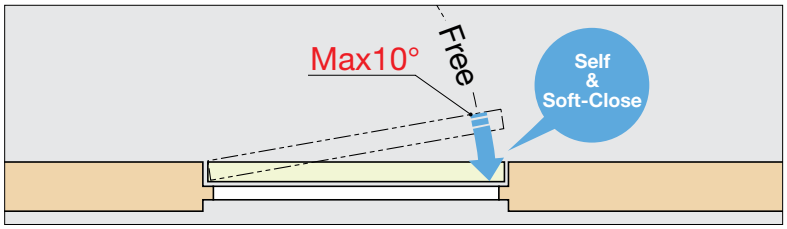


- Door damper unit for interior, swinging doors.
- Grips door at final 10° and softly, self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- "Invisible" design minimizes visibility of the hardware.
- Recommended Door Specifications:
  Thickness: minimum 33 mm (1-5/16")
  Width: maximum 36" (914 mm)
  Weight: 15~40 kg (33~88 lbs)
- Can be adjusted for door weight after installation. Counterplate position can be easily adjusted by removing cover and turning micro-adjustment screws.
- Can be used with HES hinges (P.180~189), sold separately.
- Includes screws and paper template for installation.

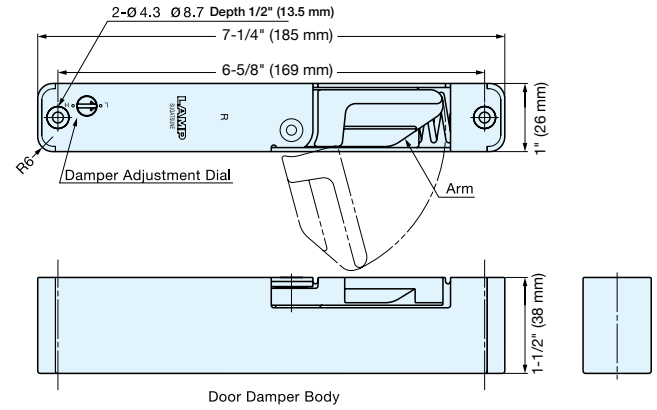
LDD-V-R is shown

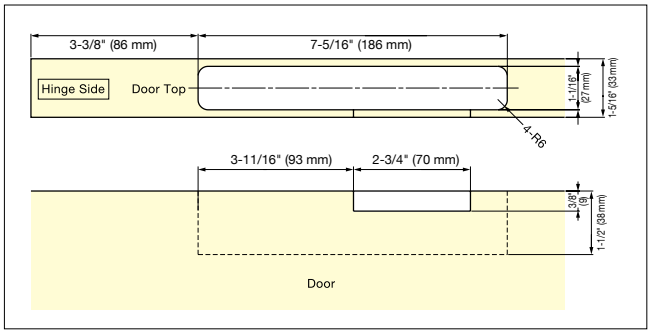




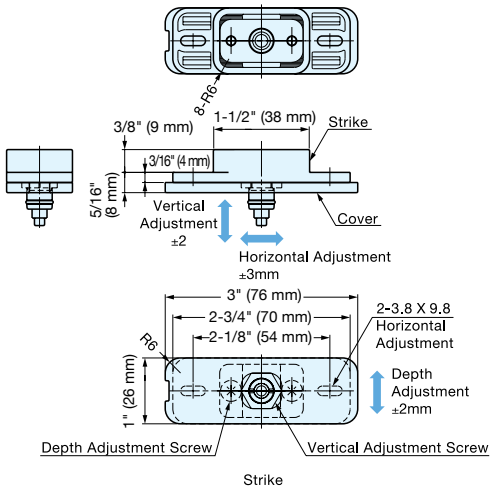


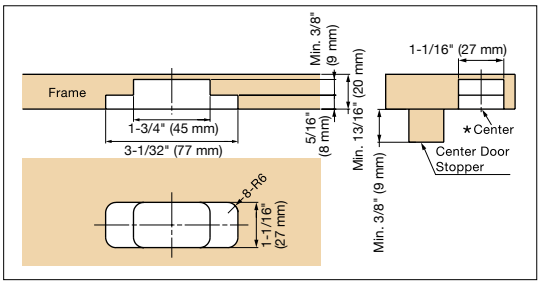
LDD-V-R is shown





Bore Dimensions (Door)



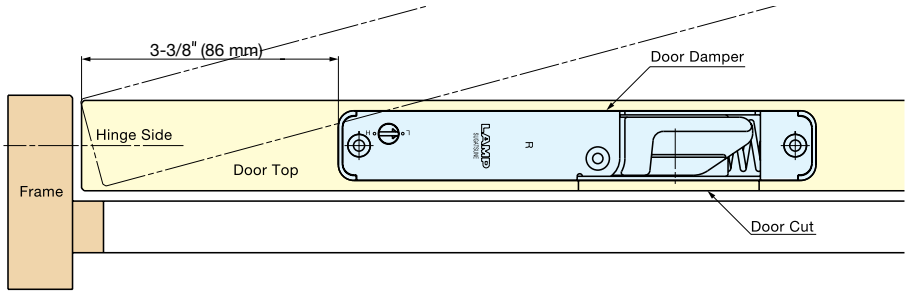


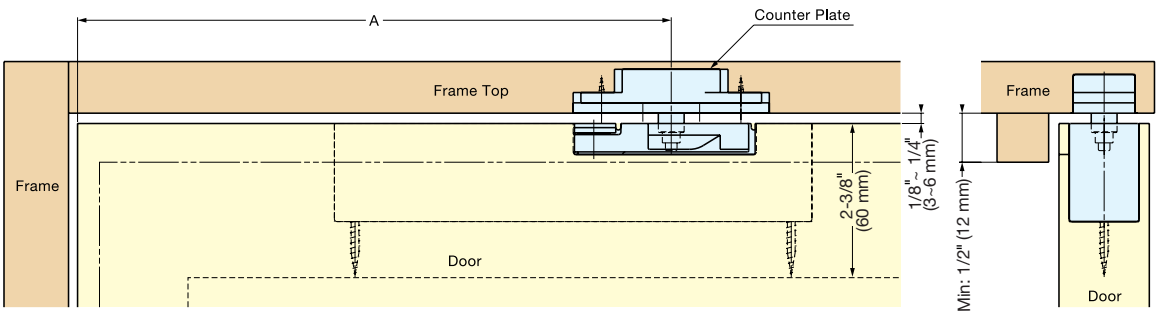
Bore Dimensions (Frame)

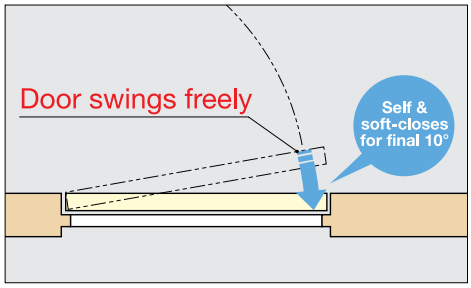
Part Name	Material	Finish/Color
Main Body	Steel/Polyacetal/PBT	Chromate/Grey
Counter Plate	Steel/Polyacetal	Nickel/Grey

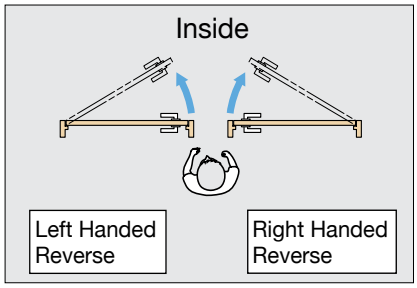
Item No.	Type	Door Weight	Door Width	Door Thickness	Box (pc)	Carton (pcs)
LDD-V-R	Right	33 ~ 88 lbs (15 ~ 40 kg)	Max. 36" (914 mm)	Min. 1-5/16" (33 mm)	1	24
LDD-V-L	Left					

Installation (LDD-V-R)









Hinge	A
HES3D-120	219
HES3D-V135LGR	217
HES3D-160	220
HES3D-E190	
3535/SS	223

*Dimension A depends on type of hinge used

Please take the following precautions when considering this hardware for your application:

- For interior use at room temperature (32~104°F, 0~40°C) only-not intended for use under high winds, high temperature or humidity, or where the hardware may get wet.
- Effectiveness may decrease over time if door is slammed closed continuously.
- Closing performance may vary depending on door latch bolt.
- If being used at the entrance of a room where air cannot move freely (vault, cellar, etc.), the ambient air pressure may affect the closing speed and power of the hardware.
- Do not hang on/hang anything on the arm as it may damage the hardware.
- Please read the installation instructions included with the hardware fully before installation.
- After installation and during normal use, please check the fasteners and hardware on a regular basis.





LAPCON DOOR DAMPER (RECESSED TYPE) LDD-V100



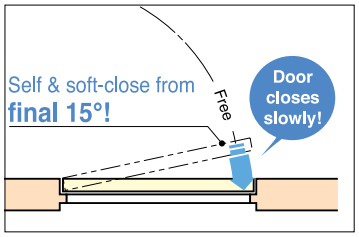
LDD-V100-NI-L shown.

- Door damper unit for interior, swinging doors.
- Grips door at final 15° and softly, self-closes doors more gently compared to other door closers, putting less stress on the hinges.
- Heavy Duty: Holds up to 220 lbs doors (100 kg).
- "Invisible" design minimizes visibility of the hardware.
- Recommended Door Specifications:
  Thickness: minimum 1-9/16"~2-3/8" (40 mm~60 mm)
  Width: maximum 35-7/16" (900 mm)
  Weight: 88~220 lbs (40~100 kg)
- Can be adjusted for door weight after installation. Counterplate position can be easily adjusted by removing cover and turning micro-adjustment screws.
- Can be used with HES3D-E190 and HES3D-160.
- Includes screws and paper template for installation.



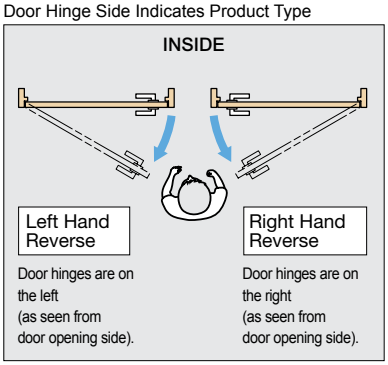
Counter plate cover (Nickel/Dark brown)

Door Movement

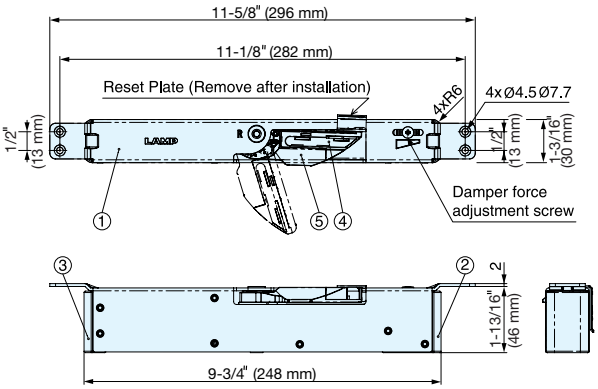


Right-handed type shown.
Left-handed type is symmetrical.

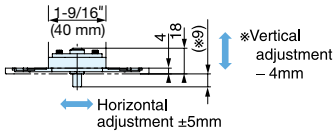
Door Hinge Side Indicates Product Type

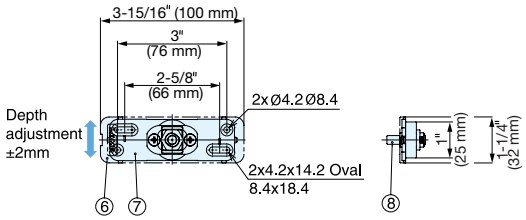


[Body]

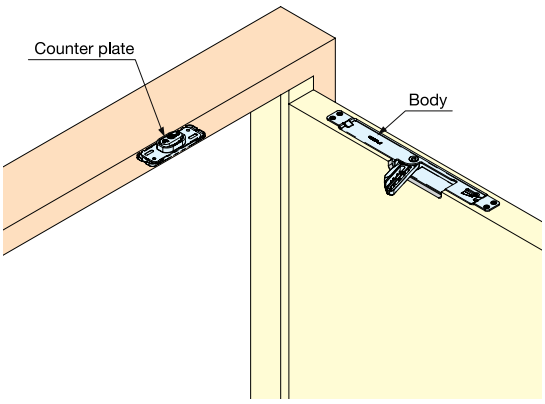


[Counter Plate]





□ Below drawing shows right-handed type. Left-handed type is symmetrical.



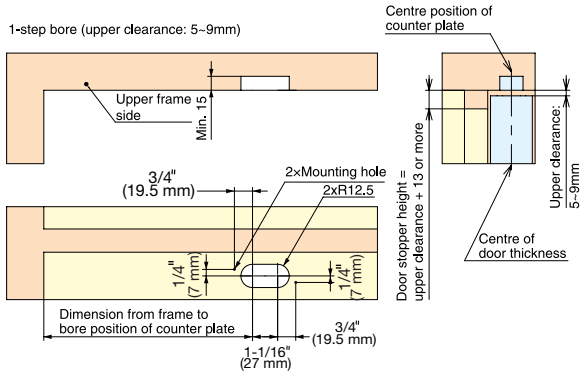
Installation

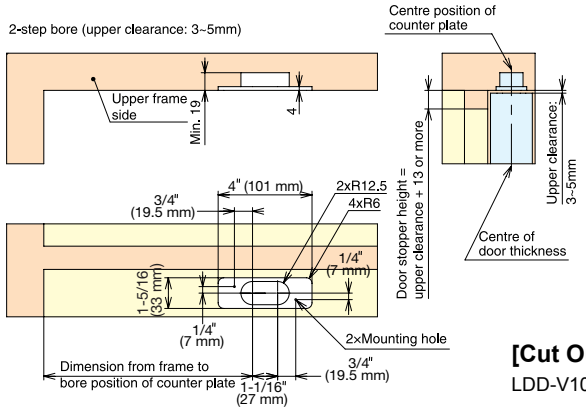
No.	Part Name	Material	Finish/Color
①	Case	Steel (SPCC)	Nickel
②	Damper Base	POM	Grey
③	Spring Base	POM	Grey
④	Arm Cover	POM	Grey
⑤	Arm	Zinc Alloy (ZDC)	Nickel
⑥	Counter Plate Cover	ABS	Dark Brown/Nickel
⑦	Counter Plate Base	Zinc Alloy (ZDC)	–
⑧	Counter Plate Shaft	Steel (SUM)	Nickel

Item No.	Finish/Color	Type	Door Weight	Door Width	Door Thickness	Box (pc)	Carton (pcs)
LDD-V100-DBR-R	Dark Brown	Right Hand Reverse	88 lbs~220 lbs (40~100 kg)	Max. 35-7/16" (900 mm)	1-9/16"~2-3/8" (40~60 mm)	1	10
LDD-V100-DBR-L		Left Hand Reverse					
LDD-V100-NI-R	Nickel	Right Hand Reverse					
LDD-V100-NI-L		Left Hand Reverse					

[Cut Out Dimensions for Frame]

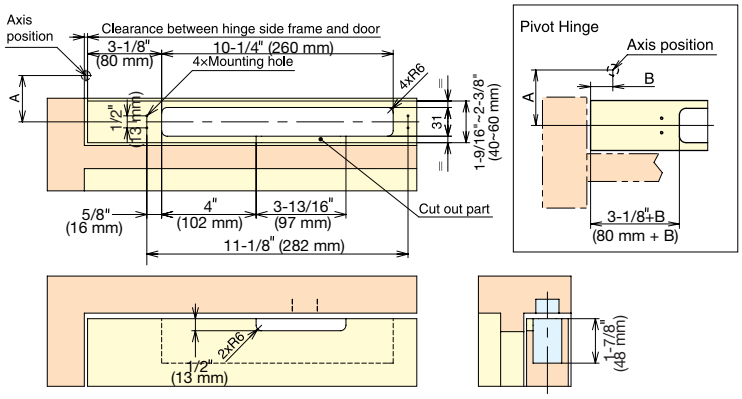
LDD-V100-R (right-handed) shown. LDD-V100-L (left-handed) is symmetrical.





[Cut Out Dimensions for Door]

LDD-V100-R (right-handed) shown. LDD-V100-L (left-handed) is symmetrical.



Dimension from frame to bore position of counter plate (mm)

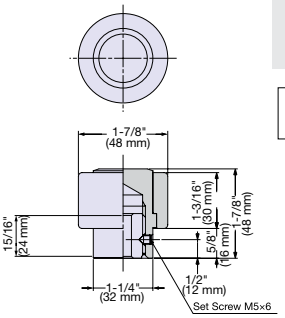
Door Hinge		Clearance Between Hinge Side Frame and Door (mm)				
		1	2	3	4	5
HES3D-160, E190		8-9/16" (217 mm)	8-9/16" (218 mm)	8-5/8" (219 mm)	8-11/16" (220 mm)	8-11/16" (221 mm)
Butt Hinge	A=13/16"~1-3/8" (20~35 mm)	8-11/16" (220 mm)	8-11/16" (221 mm)	8-3/4" (222 mm)	8-3/4" (223 mm)	8-13/16" (224 mm)
	A=1-3/8"~2" (35~50 mm)	8-3/4" (223 mm)	8-13/16" (224 mm)	8-7/8" (225 mm)	8-7/8" (226 mm)	8-15/16" (227 mm)
Pivot Hinge	A=13/16"~1-3/8" (20~35 mm)	8-11/16" (220 mm)+B	8-11/16" (221 mm)+B	8-3/4" (222 mm)+B	8-3/4" (223 mm)+B	8-13/16" (224 mm)+B
	A=1-3/8"~2" (35~50 mm)	8-3/4" (223 mm)+B	8-13/16" (224 mm)+B	8-7/8" (225 mm)+B	8-7/8" (226 mm)+B	8-15/16" (227 mm)+B

If clearance between hinge side frame and door is beyond the range in the table above, calculate as per the table below.

Door Hinge		Dimension from Frame to Bore Position of Counter Plate (mm)
HES3D-160, E190		8-1/2" (216 mm) + Clearance Between Hinge Side Frame and Door
Butt Hinge	A=13/16"~1-3/8" (20~35 mm)	8-5/8" (219 mm) + Clearance Between Hinge Side Frame and Door
	A=1-3/8"~2" (35~50 mm)	8-3/4" (222 mm) + Clearance Between Hinge Side Frame and Door
Pivot Hinge	A=13/16"~1-3/8" (20~35 mm)	8-5/8" (219 mm) + B + Clearance Between Hinge Side Frame and Door
	A=1-3/8"~2" (35~50 mm)	8-3/4" (222 mm) + B + Clearance Between Hinge Side Frame and Door

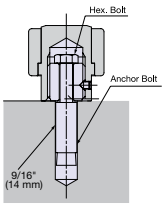
Zwei L Door Stopper ZL-1801



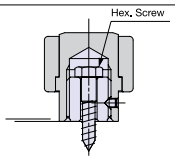


- Supplied with stainless steel hex. bolt (M8 × 75), concrete anchor (for M8, ø14 mm hole), stainless steel carriage bolt (M8 × 50) and allen key.

Concrete, Tile, Brick Floor Installation



Wood Floor Installation

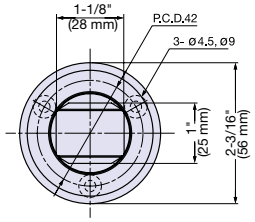


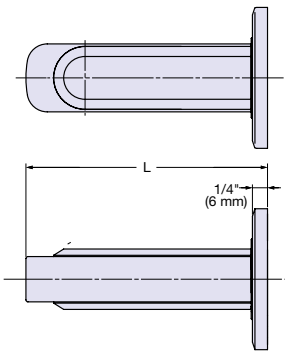
Item No.	Weight (g)	Box (pc)
ZL-1801	381	1

No.	Part Name	Material	Finish
①	Body	316 Stainless Steel	Zwei L
②	Bumper	Synthetic Rubber	Black
③	Base	316 Stainless Steel	Plain

Zwei L Door Stopper ZL-1802







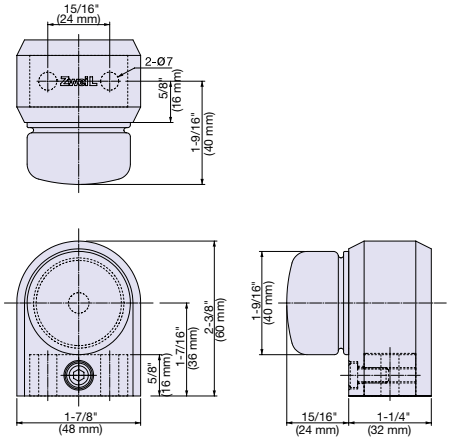
- Supplied with stainless steel wood screws (4.1 × 32) and concrete anchor (for wood screw 4.1, ø6 mm hole).

Item No.	L	Weight (g)	Box (pc)
ZL-1802-72	2-13/16" (72)	360	1
ZL-1802-96	3-3/4" (96)	474	

No.	Part Name	Material	Finish/Color
①	Body	316 Stainless Steel	Zwei L
②	Bumper	Synthetic Rubber	Black

Zwei L Door Stopper ZL-1803





- Supplied with stainless steel wood screw (6.2 × 56), anchor plug and 4 mm allen key.

Item No.	Weight (g)	Box (pcs)
ZL-1803	640`	1

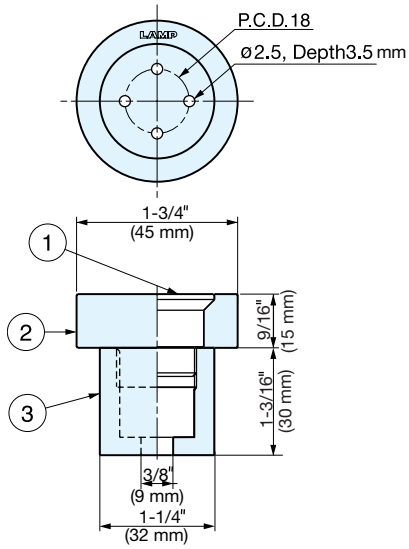
No.	Part Name	Material	Finish
①	Body	316 Stainless Steel	Zwei L
②	Bumper	EPDM	Grey

DOOR STOPPER

RoHS compliant | STAINLESS 304 STEEL | 8×50 STAINLESS

HT-32P





- Door stopper with a clear acrylic bumper.
- Supplied with stainless steel screw 8 × 50, anchor plug and special wrench.

Item No.	Weight (g)	Box (pc)	Carton (pcs)
HT-32P	320	1	30

No.	Part Name	Material	Finish
①	Face Plate	304 Stainless Steel	Satin
②	Bumper	Soft Acrylic	Clear
③	Post	304 Stainless Steel	Satin

DOOR STOPPER

STAINLESS 304 STEEL | STAINLESS 303 STEEL

DSD

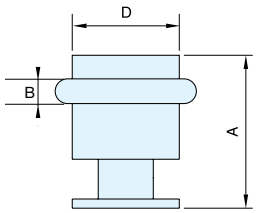
- Supplied with screw and expansion anchor.



DSD-02 Satin
(Floor-Mount Type)



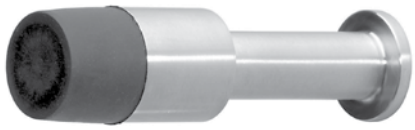
DSD-02 Black
(Floor-Mount Type)



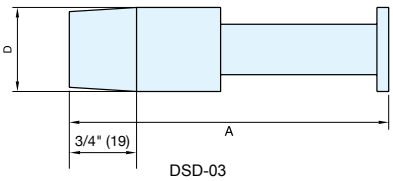
DSD-02



DSD-03 Black (Wall-Mount Type)



DSD-03 Satin (Wall-Mount Type)



DSD-03

Item No.	Finish	D	A	B	Weight (g)	Box (pcs)	Carton (pcs)
DSD-02/S	Satin	13/16" (20 mm)	1-3/8" (35 mm)	3/16" (4.5 mm)	68	25	250
DSD-02/S-BL	Black						
DSD-02/L	Satin	1-3/8" (35 mm)	2 (50 mm)	5/16" (7.5 mm)	281	10	100
DSD-02/L-BL	Black						
DSD-03/S	Satin	1" (25 mm)	2-9/16" (65 mm)	-	147		
DSD-03/S-BL	Black						
DSD-03/M	Satin		3-3/4" (95 mm)		187		
DSD-03/M-BL	Black						
DSD-03/L	Satin		4-15/16" (125 mm)		229		
DSD-03/L-BL	Black						

Material	Finish
303/304 Stainless Steel	Satin, Black (BL)

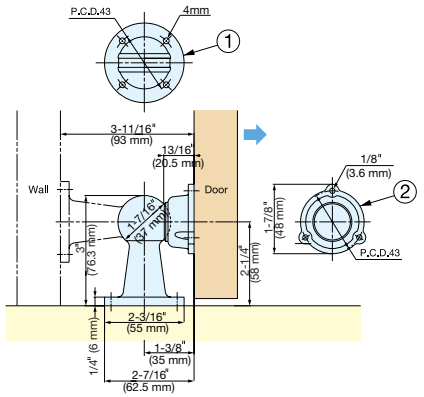
DOOR STOP & HOLDER

3.5×22 3.1×16 STEEL

SMDH







- Holds door in opened position with strong magnet.
- Can be mounted on either floor or wall.

Item No.	Magnetic Force	Weight (g)	Box (pcs)	Carton (pcs)
SMDH/IVY	30.8 lbs (14 kgf)	140	10	100
SMDH/BRN				

No.	Material	Color
①	Polycarbonate	Brown (BRN), Ivory (IVY)
②	ABS	

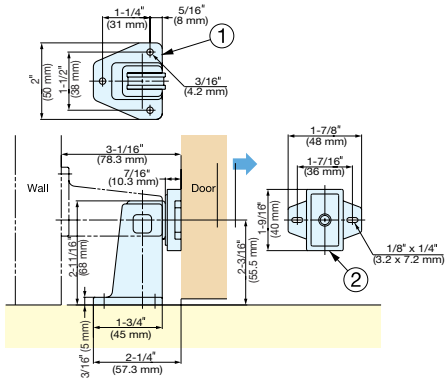
DOOR STOP & HOLDER

3.8×20 3.1×13 STEEL

KMDH







- Holds door in opened position with strong magnet.
- Can be mounted on either floor or wall.

Item No.	Magnetic Force	Weight (g)	Box (pcs)	Carton (pcs)
KMDH/IVY	26.4 lbs (12 kgf)	100	10	100
KMDH/BRN				

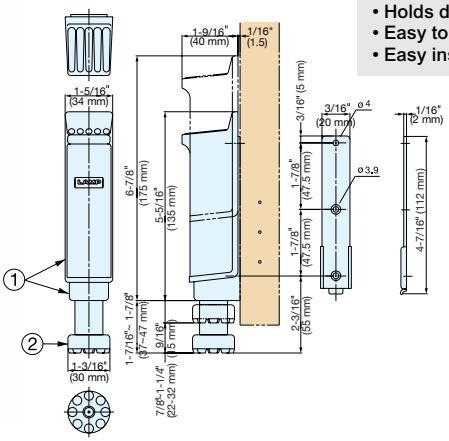
No.	Material	Color
①	Polyamide	Brown (BRN), Ivory (IVY)
②		

STEP-ON DOOR HOLDER

3.5×16 STEEL

SODH





- Holds door in any position.
- Easy to operate. Simply step on the top to hold or release the door.
- Easy installation, mount the bracket and slide-in the body.







Item No.	Weight (g)	Box (pc)	Carton (pcs)
SODH	215	10	50
SODH-BL			

No.	Part Name	Material	Color
①	Body	Plastic	Brown, Ivory, Black
②	Bottom	Rubber	Brown, Black

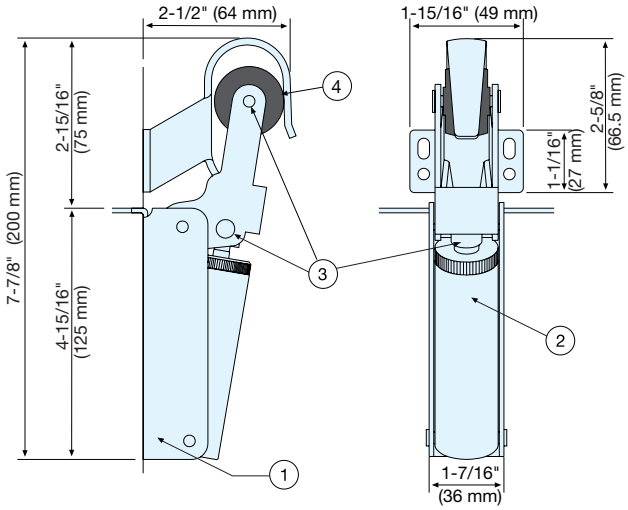
DOOR CLOSER

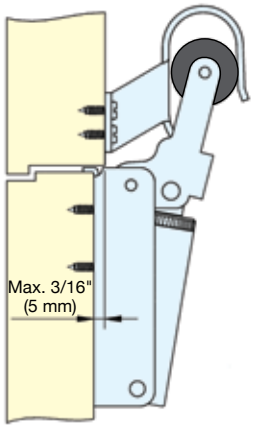
3.9×19 STEEL

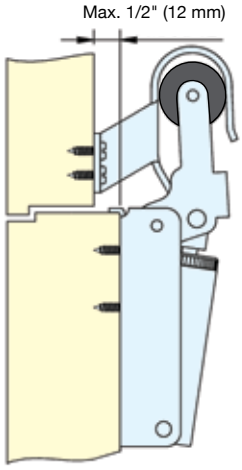
JFR



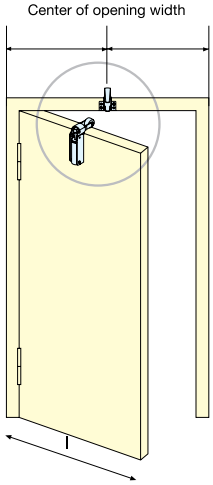
- Stainless steel hydraulic door closer.
- Bracket arm will catch the roller for self closing at about 10°.
- Silent operation.
- Hydraulic cylinder absorbs shock, preventing the door from slamming shut.
- Easy surface-mount installation, ideal for retrofitting.

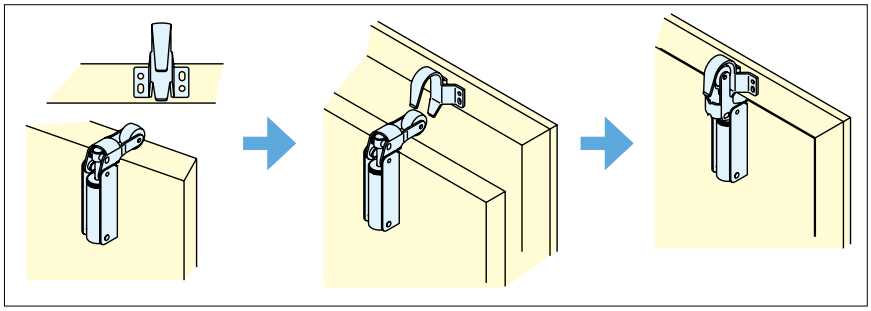












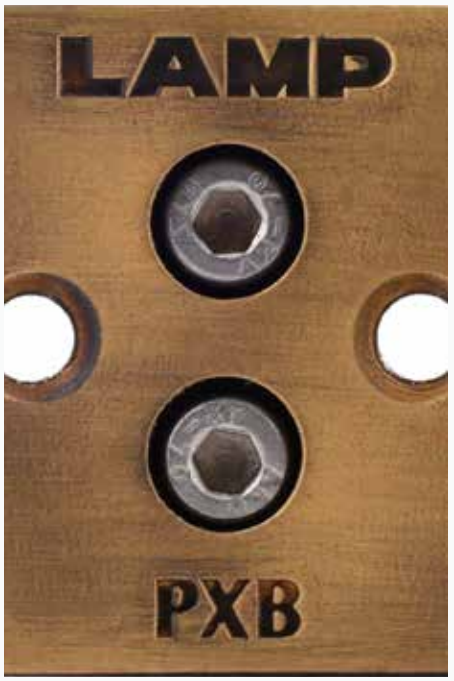
No.	Part Name	Material	Finish/Color
①	Body	304 Stainless Steel	Polished
②	Cylinder	Aluminum	Silver
③	Pin/Shaft	Steel	Plain
④	Roller	Nitrile Butadiene Rubber	Black

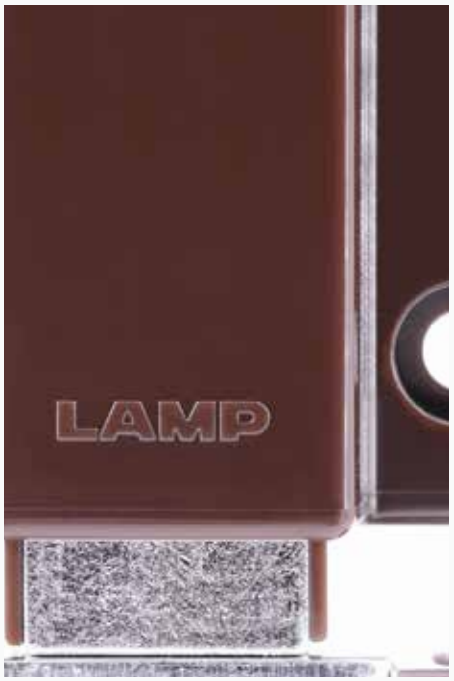
Item No.	Door Weight	Weight (g)	Box (pcs)	Carton (pcs)
JFR-021205	Max.176 lbs (80 kg)	598	1	24

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