LIFT-ASSIST DAMPER GS-LAD-ST   With Stopper

Lapcon   L=R   INSTRUCTION

Lift-assist

Passed 100,000 open/close private cycle test
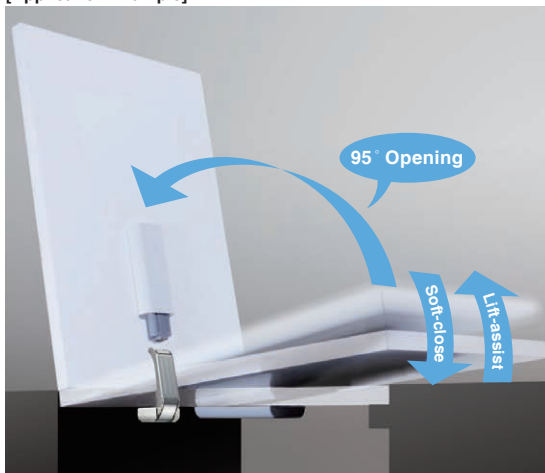
Opening Direction	Item Name	Description	Non-handed	Maximum Door Moment
Top-opening	GS-LAD-ST-L	Lift-assist Soft-close	Yes	8.0~10.5 N·m/pc (81.6~107.1 kgf·cm/pc)
	GS-LAD-ST-M			10.5~13.5 N·m/pc (107.1~137.7 kgf·cm/pc)
	GS-LAD-ST-H			13.5~16.0 N·m/pc (137.7~163.2 kgf·cm/pc)

- Ideal for counter flaps at bars, restaurants, and receptions.
- Smooth and soft close movement at the end, preventing flaps from slamming shut. Damper works even at a slight opening angle.
- Lift-assist mechanism with light opening.
- Stops flap at 95°opening with stopper.
- Suitable for door thickness 15~40mm.
- Can be post-installed to existing counters without processing.
- Installation position can be easily determined with the supplied template.
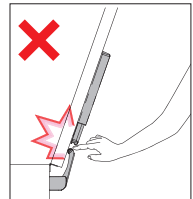
[Application Example]

95° Opening

Soft-close

Lift-assist

[Specifications]
- Operating temperature: 0℃~40℃

[Remarks]
- Simply holds rather than fixes flap in opened position.
- Make sure to have sufficient hinge strength and installation strength at door hanging side.
- Do not use concealed hinge.
- Closed flap cannot be held with only this product. Please install a catch at the front end of flap.
- Do not forcibly open and close flap more than necessary.
- Ensure that the distance from mounting surface of damper unit and stopper to flap surface is 15~40mm (see drawing).
- Be careful not to pinch fingers between arm unit and damper unit.
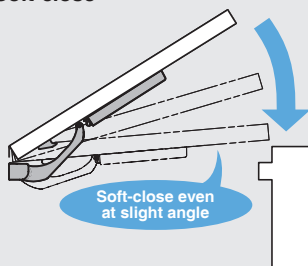- Do not use with spacer GS-LAD-DP (for thick door) and bracket for back mount GS-LAD-BKT (for horizontal installation).

[Parts Included]
- Binding head tapping screw 4×16
- Template for positioning

[Recommended Hinge]
- Concealed hinge R

(S)election Tool
Sasuga-kun
Applicable Products
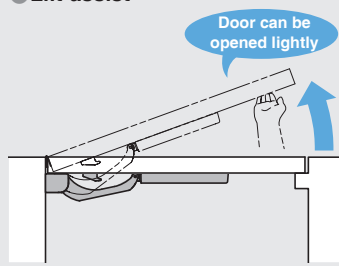Used for Product Selection & Simulation. Available on Web!

●Soft-close

Damper works just before flap closes, preventing it from slamming shut and pinching fingers.
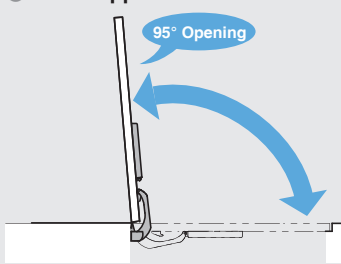
Soft-close even at slight angle

●Lift-assist

Door can be opened lightly
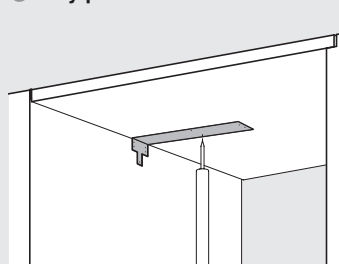
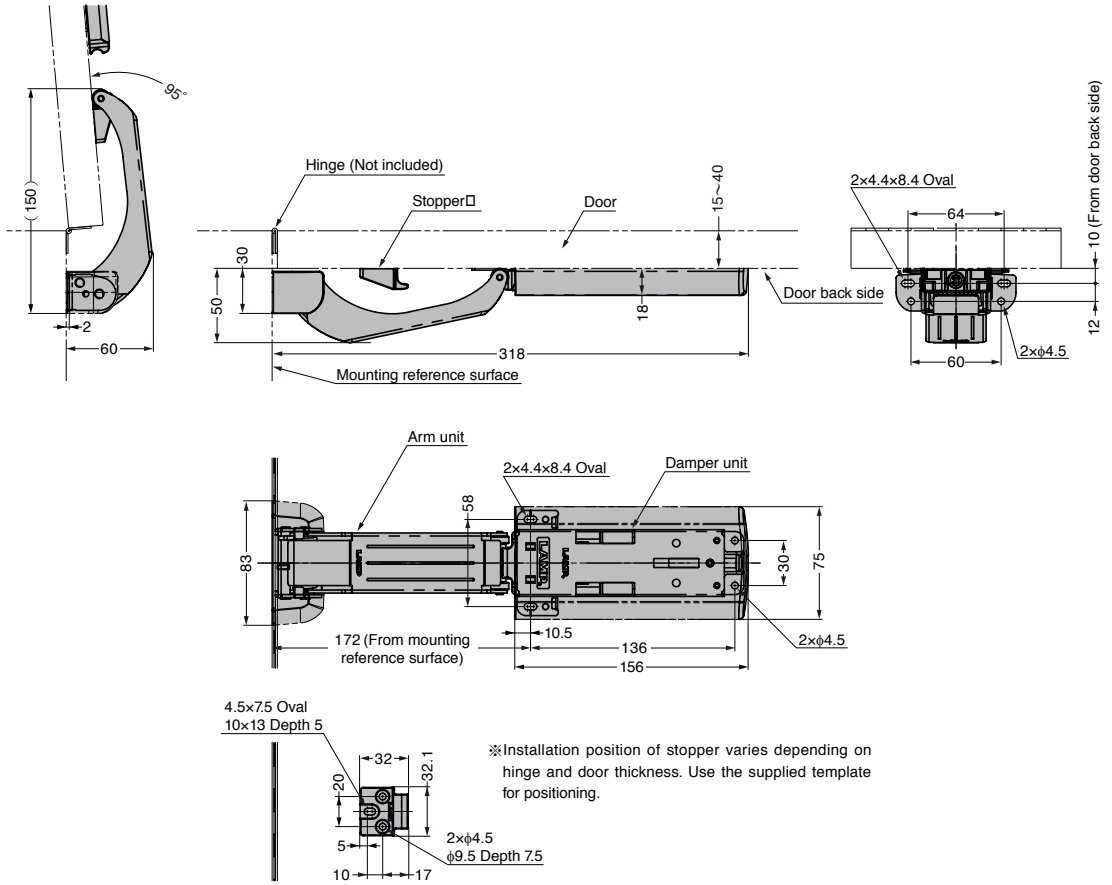Lift-assist mechanism with light opening.

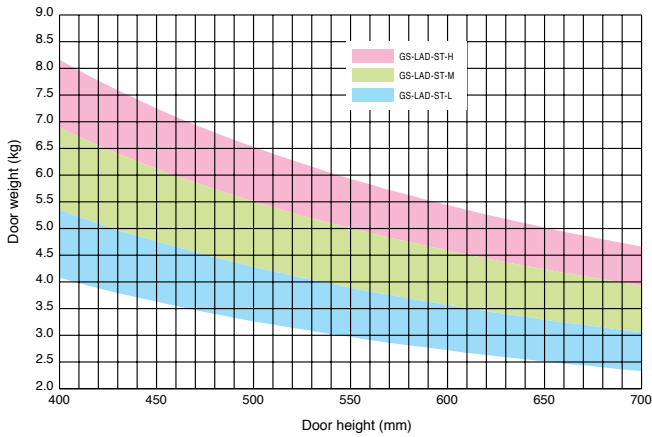## ●With stopper

95° Opening

Stops flap at 95°opening.

●Easy post-installation

Can be post-installed to existing counters without processing. Simply by pressing against the supplied mounting template, installation position can be easily determined.

95°

(150)

60

2

Hinge (Not included)

Stopper□

Door

15~40

30

50

18

318

Mounting reference surface

Door back side

2×4.4×8.4 Oval

64

10 (From door back side)

12

60

2×φ4.5

Arm unit

2×4.4×8.4 Oval

Damper unit

58

83

30

75

172 (From mounting reference surface)

10.5

136

156

2×φ4.5

4.5×7.5 Oval
10×13 Depth 5

32

32.1

20

5

10

17

2×φ4.5
φ9.5 Depth 7.5

※Installation position of stopper varies depending on hinge and door thickness. Use the supplied template for positioning.

[Door Size Ranges] 1pc use only

GS-LAD-ST-H
GS-LAD-ST-M
GS-LAD-ST-L

Door weight (kg)

Door height (mm)

Refer to the left graph as a guide for model selection.
When using a door with size not given here, calculate the door moment as follows.
Door weight includes attached decorations.

Maximum Door Moment (N・m)
= Door weight (kg)× 9.80665× Distance from rotation centre
  to door centre of gravity (m)

Item Name	Material	Finish	Maximum Door Moment N·m/pc	Maximum Door Moment kgf·cm/pc	Recommended Thickness	Weight (g)
GS-LAD-ST-L	ABS/POM/Steel/ Zinc Alloy (ZDC)	Zinc Chromate/ Nickel Chrome/ Nickel	8.0~10.5	81.6~107.1	15~40	750
GS-LAD-ST-M			10.5~13.5	107.1~137.7		
GS-LAD-ST-H			13.5~16.0	137.7~163.2		