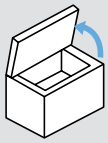
LIFT ASSIST STAY S-ATH

L=R SUS

Opening Direction	Item Name	Non-handed	Maximum Door Moment
 Top-opening	S-ATH-60S	Yes	60 N・m/pc (611.6 kgf・cm/pc)
	S-ATH-70S		70 N・m/pc (713.6 kgf・cm/pc)

- Applicable to heavier top-opening lids.
- Spring mechanism assists in lifting heavy top-opening lid.
- Can choose from two types depending on the shape of top-opening lid.
- Torque adjustable (+0%, -10%) by turning the adjustment bolt.

[Specifications]

- Operating temperature: 0˚C ~40˚C
- Operating humidity: 90%RH or less

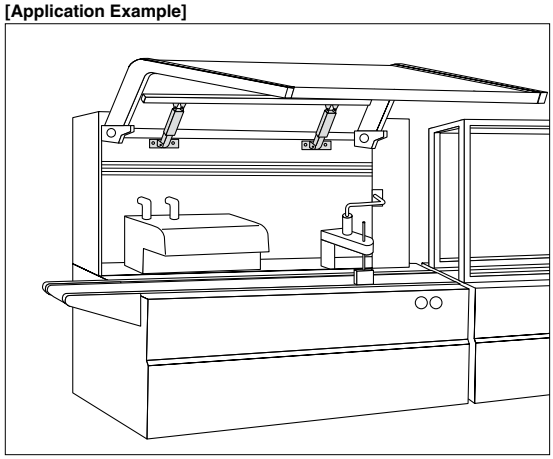
[Remarks]

- When used for the top-opening lid, install a stopper (not included) to prevent from exceeding the opening angle.
- Because of high spring tension product, abnormal noise, deformation or damage may occur depending on cabinet and hinge used. Check if the cabinet and hinge have sufficient strength and rigidity before use.
- Continuous opening and closing is not allowed.
- Do not use outdoors.
- Proper testing is necessary.
- Spring tension may vary over time.

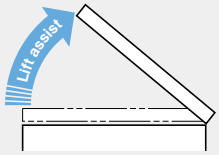
Selection Tool
Sasuga-kun
Applicable Products
Used for Product Selection & Simulation. Available on Web!

Simulation at other installation positions than those in the catalogue may also be done.

[Application Example]



- Easy operation with lift assist.



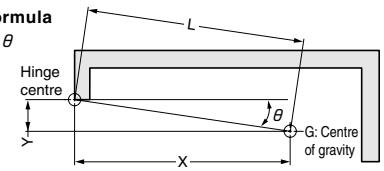
Easy to lift heavy top-opening lid with spring tension (lift assist function). Can choose from two types depending on the shape of top-opening lid.

[How to Select] Refer to the following 1~3 for model selection.

1. Calculating the maximum door moment

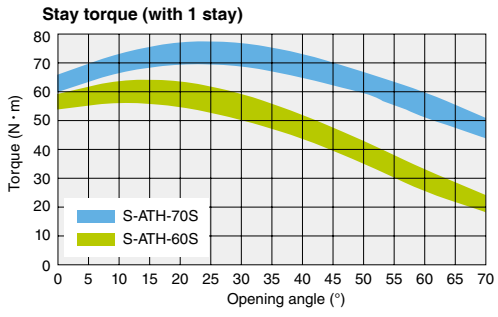
Calculation formula

$Mu = W \times L \times \cos\theta$



X	Horizontal distance from rotation centre to door centre of gravity
Y	Vertical distance from rotation centre to door centre of gravity
L	Distance from rotation centre to door centre of gravity
θ	Angle from horizontal line at hinge centre to door centre of gravity
W	Door weight
G	Door centre of gravity

2. Confirming stay torque



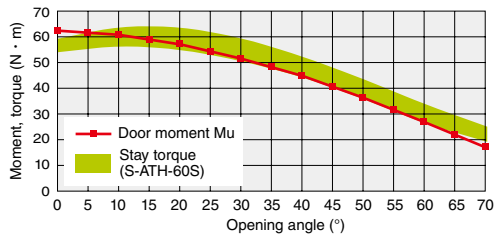
3. Selecting model

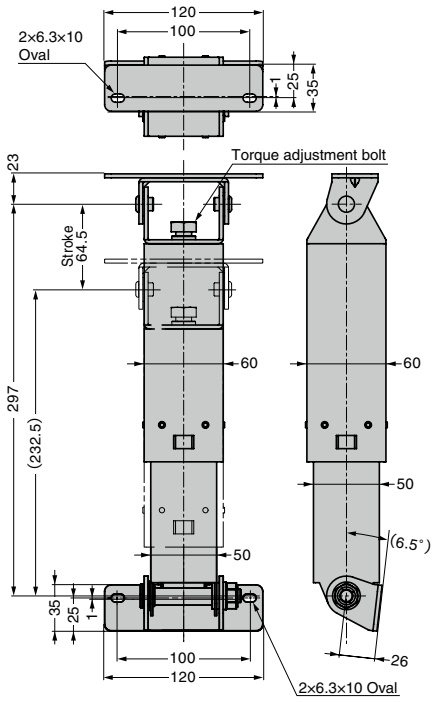
As shown in the graph on the right, if the door moment and stay torque overlap, the stay is considered to be consistent with the specifications.

Door moment Mu > Stay torque･･･Force is applied in the closing direction of door.
Door moment Mu < Stay torque･･･Force is applied in the opening direction of door.

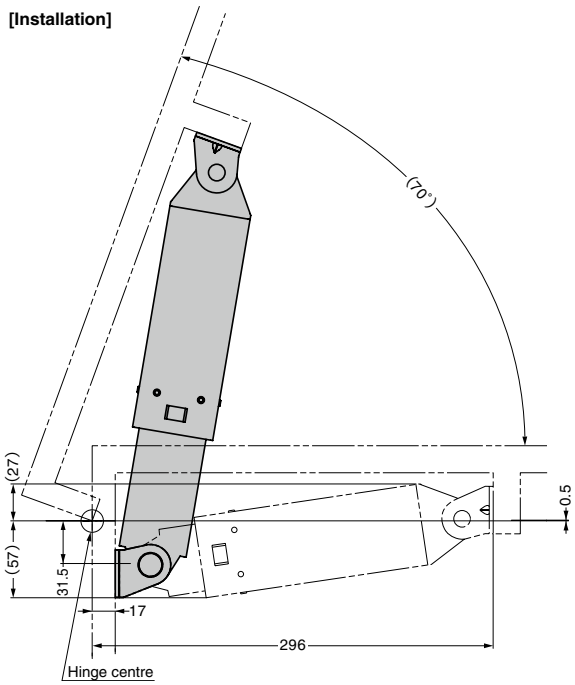
Conditions in the above example: X = 42cm, Y = 3cm, L = 42.1cm, W = 15kg
Stay in application example: S-ATH-60S (1 pc use)

Door moment and stay torque Overlap example (with 1 stay)



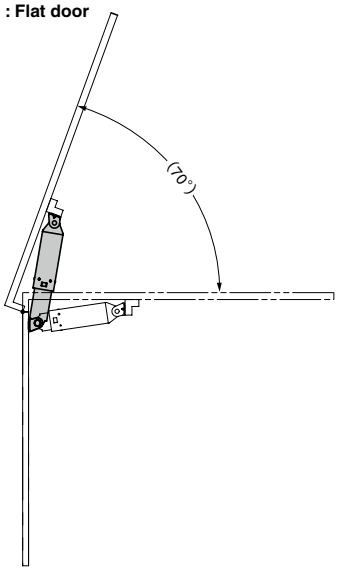


[Installation]

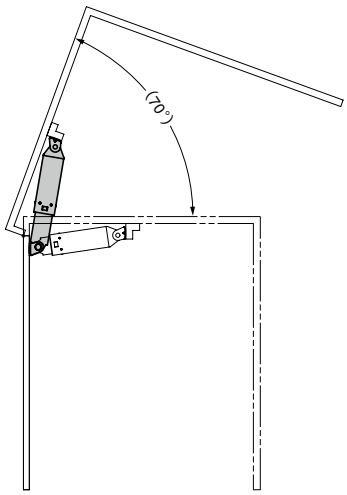


[Applicable Door Shape]

S-ATH-60S : Flat door



S-ATH-70S : L-shaped door



RoHS	CAD	Item Code	Item Name	Applicable Door Shape	Material	Finish	Maximum Door Moment N·m/pc	Maximum Door Moment kgf·cm/pc	Weight (g)	Box (pcs)
G	3D	180-033-866	S-ATH-60S	Flat Door	Stainless Steel (SUS304)	Satin	60	611.6	2500	1
G	3D	180-033-867	S-ATH-70S	L-shaped door			70	713.6		1