LIFT-ASSIST HINGE HG-PA SERIES

VIDEO



Soft-close function

TORQUE HINGES

DAMPER HINGES



DETENT HINGES

CONCEALED HINGES

Lift assist function

[HG-PA Series]

BUTT HINGES

PIANO HINGES

STEP HINGES

LIFT-OFF HINGES

PIVOT HINGES SPRING HINGES

CLEAN ROOM HINGES

HINGES FOR

ALUMINIUM FRAME DROP

HINGES GLASS DOOR HINGES

SPECIAL HINGES

- Easy to lift heavy top-opening lid with spring tension (lift assist function).
- Smooth and soft-closing movement at the end, preventing lid from slamming shut.
- Torque is adjustable by turning the adjustment screw (see below).

[Specifications]

Operating temperature: 0°C ~40°C

[Applications]

Medical equipment, analytical instruments, semiconductor equipment etc.

[Remarks]

- Be sure to read the "Cautions"
 1 When installing, ensure that both
- hinge shafts are levelled and aligned. Install a stopper (not included) on the cabinet to prevent from exceeding
 - Selection & the operating angle during opening Simulation. or closing.

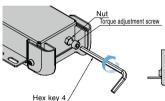




Video Link

- Do not use outdoors
- Check if the cabinet has sufficient strength and rigidity before use.
- For inside mount type, check the torque adjusting screw position, and turn the screw with cabinet and lid already mounted.

[How to Adjust Torque]



Loose the end nut with a wrench, and then turn the adjustment screw with a hex key. Tighten the nut again after adjustment.

orque

Туре	Torque N · m	Torque kgf · cm	Torque Adjustment Range	Item Name	Page	
R	g±10%	91 ^{±10%}	±11%	7	2	
\\				HG-PA180-9		
	15 ^{±10%}	153 ^{±10%}			3	
	20 ^{±10} %	204 ^{±10%}	±5%			
	25 ^{±10%}	255 ^{±10%}		HG-PA200, HG-PA201		
Outside mount	35 ^{±10} %	357 ^{±10} %	±5%		4	
	45 ^{±10%}	459 ^{±10%}				
				HG-PA270		
	9±10%	91 ^{±10%}	±11%		5	
11			<u> </u>	HG-PA210-9	1	
	15 ^{±10%}	153 ^{±10%}			6	
Inside mount	20 ^{±10%}	204 ^{±10%}	±5%			
inside modifit	25 ^{±10%}	255 ^{±10%}	1	HG-PA230, HG-PA231		



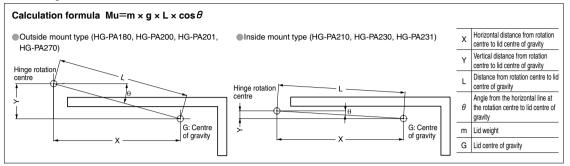
Please use selection tool "SASUGA-kun" for product selection. Simulation when using multiple hinges is possible.

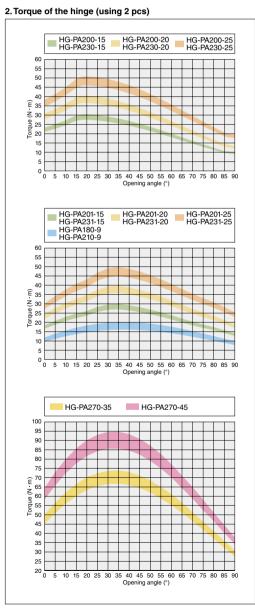
Please visit by clicking the banner on the website



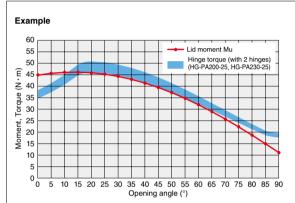
[How to Select] Refer to the following 1~3 for model selection.

1. Calculating lid moment





3. Selecting model



Lid torque and hinge torque should be overlapped as shown on the graph above.

 $\label{eq:Lid_moment_Mu} \mbox{Lid moment Mu} > \mbox{Hinge torque} \\ \cdots \mbox{Force is applied in the closing direction of lid.}$ Lid moment Mu < Hinge torque · · · Force is applied in the opening direction of lid.

*Confirm the movement with actual item when the lid moment Mu is at the upper or lower limit of the torque range of lift assist hinge.

Conditions in the above example: X=43 cm, Y=-10.5 cm, L=44.3 cm, W=10.8 kg Recommended model: 2 pcs of HG-PA200-25 or HG-PA230-25

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HINGES FOR ALUMINIUM FRAME

DROP HINGES

GLASS DOOR HINGES

SPECIAL HINGES









Easy to lift heavy top-opening lid with spring tension (lift assist

- Smooth and soft-closing movement at the end, preventing lid from slamming shut.
- ■Torque is adjustable by turning the adjustment screw (±11%).
- Able to limit the 140° opening angle to 55° or 80° with use of the included stopper plate.
- Opening angle can also be restricted between 15° and 90° (made to order).

[Remarks]

Be sure to read the "Cautions"

When not mounting the angle restricting piece, Install a stopper (not included) on the cabinet to prevent from

Video Link

Nation Design Tec Video Lift Assist

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exceeding the operating angle during opening or closing.

[Operating Range]

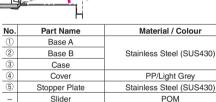


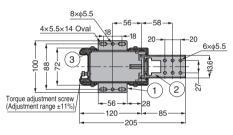


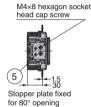




(S) election Tool







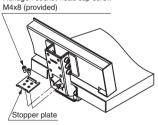
Full opening angle without stopper (140°)	When stopper is fixed for 80° opening When stopper is fixed			
Hinge rotation centre	for 55° opening			
≈ ∞ 1 42.8•	4×5.5×10 Oval 2×φ5.5			

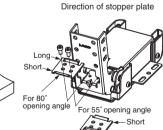
[Setting of Opening angle]

Opening angle can be limited to 55° or 80° with the included stopper plate.

Spring

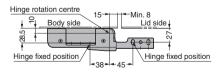
Hexagon socket head cap screw M4x8 (provided)





Steel (SWO)

[Installation]



RoHS	CAD	Item Code	Item Name	Torque N·m/pc	Torque kgf cm/pc	Weight (g)	Box (pcs)	Carton (pcs)
G'	3D	170-029-740	HG-PA210-9	9±10%	91 ^{±10%}	770	1	12