FREE-STOP STAY (ONE WAY) GS-S-TAR



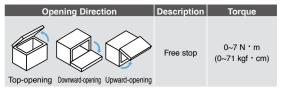












- Torque stay for upward-opening, downward-opening and topopening.
- Free stop in any position when lifting up the door.
- Friction in one direction only, provides smooth opening.
- Optional mounting plates available. (Mounting plate, mounting plate for aluminium frame, and mounting plate for glass door)
- Torque adjustable with a hex key (included).

[Remarks]

- Be sure to read the "Cautions"
- Refer to the graph for applicable doors.
- Handed: Specific left and right-handed.
- Use GS-S-TAR-2030 for upward-opening/top-opening and GS-S-TAR-10 for downward-opening.
- For downward-opening, when placing objects or working on the surface of opened door, install a brace or reinforcement material to support the door in addition to the stay.
- When using 2 pcs, adjust free stop mechanisms evenly. Over loosening may cause free stop function failure.
- Without soft-close function.
- Install a catch (sold separately) to keep the door closed.
- Operating temperature : 0°C ~40°C
- The torque may vary depending on the temperature of the operating environment. Torque adjustment should be done at room temperature.
- If there is a reduction in the torque, please readjust it.

[Parts Included]

- lacktriangle Countersunk head tapping screw 4x 20
- Binding head tapping screw 3.5x 15
- Hex key 4
- Mounting plate

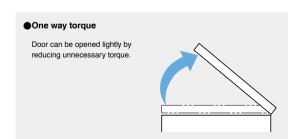
[Sold Separately]

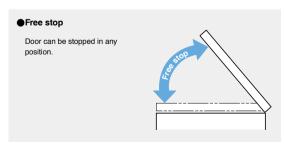
- Mounting plate
- Face plate and spacer for GS-SDS glass door

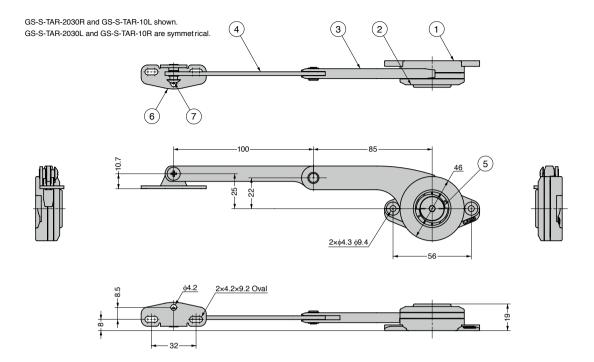
Selection Tool Sasuga-kun Applicable Products Used for Product Selection & Simulation.

Available on Web!

Video Link

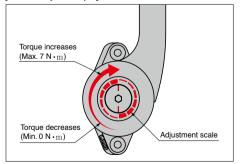






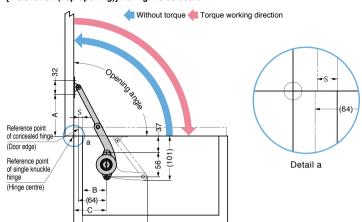
No.	Part Name	Material	Finish	
1	Body			
2	Cover	Zinc Alloy (ZDC)		
3	Root Arm			
4	Tip Arm	Steel (SPCC)	Nickel	
(5)	Torque Adjustment Screw	Steel		
6	Mounting Plate	Steel (SPCC)		
7	Truss Head Screw	Steel		

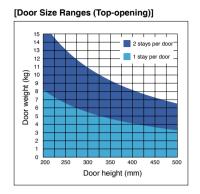
[How to Adjust Torque]



Adjustable with the supplied hex key. By using adjustment scale, you can easily match the left torque with the right one when using 2 pcs.

[Installation (Top-opening)] For right side board





S = Overlay by concealed hinge

(149)

Hinge	Opening Angle	Α	В	С
Concealed Hinge	70°	114	73-S	-
Concealed Hinge	90°	98		
Single Knuckle Hinge	70°	115		77
Single Knuckle Hinge	90°		_	

[Maximum Door Moment]

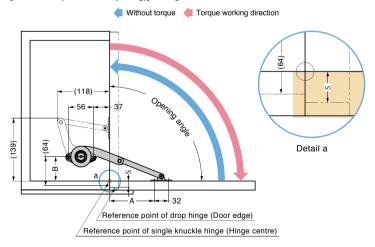
■With 1 star

Maximum door moment = Max. 8.1 N · m

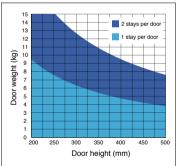
With 2 stays, the maximum door moment will be doubled.

Maximum door moment (N \cdot m) = Door weight (kg) \times 9.80665 \times Distance from rotation centre to door centre of gravity (m)

[Installation (Downward-opening)] For right side board



[Door Size Ranges (Downward-opening)]



S = Overlay by drop hinge

Hinge	Opening angle	Α	В	
Drop Hinge	90°	99	70-S	
Single Knuckle Hinge	90	100	51	

[Maximum Door Moment]

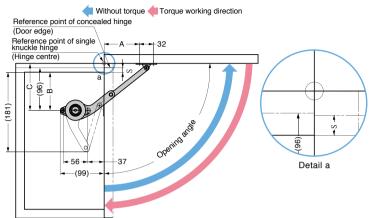
With 1 stay

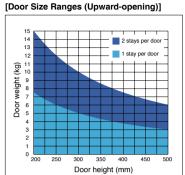
Maximum door moment = Max. 9.3 N · m

With 2 stays, the maximum door moment will be doubled.

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

[Installation (Upward-opening)] For right side board





S = Overlay by concealed hinge

Hinge	Opening Angle	Α	В	С
Concealed Hinge	80°	98		
Concealed Hinge	90°	88	105-S	_
Concealed Hinge	100°	80		
Single Knuckle Hinge	80°	90		
Single Knuckle Hinge	90°	77	_	109
Single Knuckle Hinge	100°	66		

[Maximum Door Moment]

With 1 stay

Maximum door moment = Max. 7.4 N · m

With 2 stays, the maximum door moment will be doubled.

Maximum door moment (N \cdot m) = Door weight (kg)× 9.80665× Distance from rotation centre to door centre of gravity (m)

Item Name	Torque N·m/pc	Torque kgf·cm/pc	Type	Opening Direction	Weight (g)
GS-S-TAR-2030R	1	0~71	Right-handed	Upward-opening,	
GS-S-TAR-2030L			Left-handed	Top-opening	004
GS-S-TAR-10R	0~7		Right-handed	- Downward-opening	234
GS-S-TAR-10L			Left-handed		