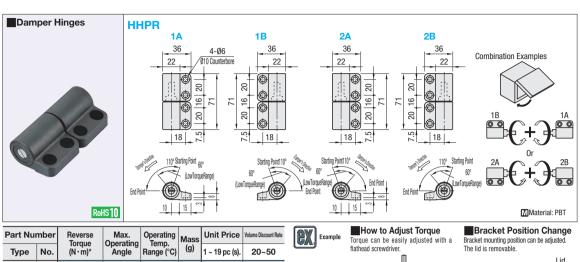
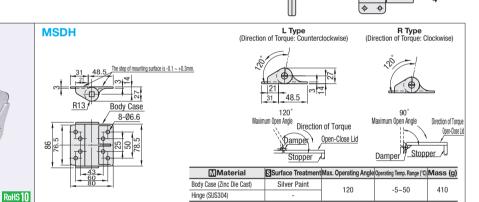
Damper Hinges



* Reverse torque value is for a single damper hinge.



■ Damper Hinges



Damper Side

φ

Damper Side

Bracket

Part Number		Shaft Rotating	Max. Reverse	Unit
Туре	Max. Usable Torque (N·m)	Direction	Torque (N·m)	Price
MSDH	3	L (Counterclockwise) R (Clockwise)	0.4 or Less	
	5		0.6 or Less	
	7.5		0.8 or Less	
	10		1.0 or Less	

Torque value is for a single hinge.
Reverse torque is torque in the opposite direction.

■Table of Selection Guide

■How to Select a Damper Hinge

m (Lid Weight)

The lid in a horizontal position generates maximum torque as shown on the left. Calculate maximum torque according to the following formula before selecting a damper that satisfies the specifications.

<Basic Principle>
The rotation of the vanes compresses the oil and generates control (brake) force to act against work force.

Body Case

Silicon Oil

Vane

ormula]

Max. Torque T= L/2 x m (Weight: kg) x 9.8 (Newton: N)

Ex.) When L=0.4m and m=5kg, Max. Torque T =0.4/2x5x9.8=9.8N·m

⇒ MSDH10 is selected.

Note) The selection made by the calculation above is for reference only.

The friction resistance and the effect of inertia moment at the hinge were not taken into consideration in the example above.

The viscosity of the oil in the damper changes depending on the temperature of the operating environment. Generally, the damping characteristic decreases with rising temperature, whereas it increases with lowering temperature.