

# Rotary Damper

FRT-W1

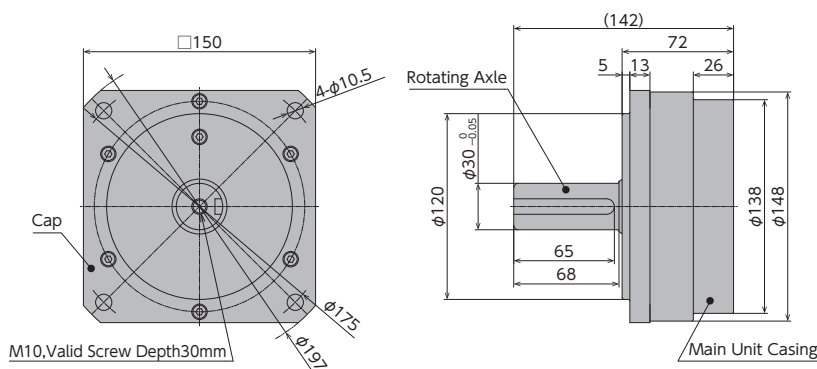
Customized orders  
Fixed Type

Bi-Directional  
Adjustable type

Uni-Directional  
Self-adjusting

RoHS Compliant

●Products specification might be changed without notice.



## Specifications

Model	Rated torque	Damping direction
FRT-W1-105	100±20N·m	Both directions
FRT-W1-185	180±40N·m	Both directions

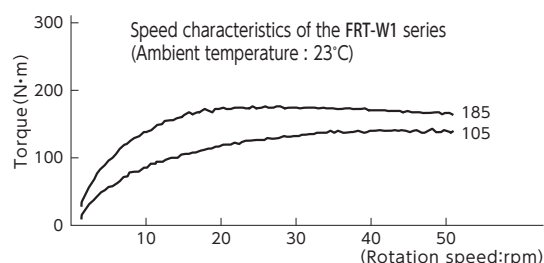
Note 1) Rated torque measured at a rotation speed of 20rpm at 23°C

- \* Max. rotation speed 50rpm
- \* Max. cycle rate 1.5cycle /min
- \* Operating temperature -20 ~60°C
- \* Weight 6Kg
- \* Main body material SUS304
- \* Cap material A2017
- \* Rotating (shaft) material SUS420
- \* Oil type Silicone oil

## Damper Characteristics

### 1.Speed characteristics

A rotary damper's torque varies according to the rotation speed. In general, as shown in the graph to the right, the torque increases as the rotation speed increases, and the torque decreases as the rotation speed decreases. In addition, please note that the starting torque slightly differs from the rated torque.



### 2.Temperature characteristics

A rotary damper's torque varies according to the ambient temperature. In addition, as shown in the graph to the right, the torque decreases as the ambient temperature increases, and the torque increases as the ambient temperature decreases. This is because the viscosity of the silicone oil inside the damper varies according to the temperature. When the temperature returns to normal, the torque will return to normal as well.

