Rotary Damper

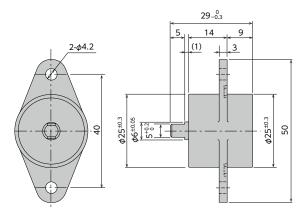
Bi-Directional Uni-Directiona
Fixed Type Adjustable type Self-adjusting

FRT-L1 Series

RoHS Compliant

Products specification might be changed without notice.





Specifications

Model	Rated torque
FRT-L1-202	(200±40)×10 ⁻³ N·m 2,000±400 gf·cm
FRT-L1-302	(300±60)×10 ⁻³ N·m 3,000±600 gf·cm

Note 1) Rated torque measured at a rotational speed of 20 rpm at 23°C Note 2) Torque can be customized by changing the oil viscosity. (See Customizable Torque Chart on page 178.)

- * Max. rotational speed
- * Max. cycle rate
- * Operating temperature
- * Weight
- * Main body material
- * Rotating shaft material
- * Oil type

50rpm

10cycle /min

0 ~50℃

14.1g

Polycarbonate (PC)

Polyacetal (POM)

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.

