

# FRT-W1-105

## ROTARY DAMPER



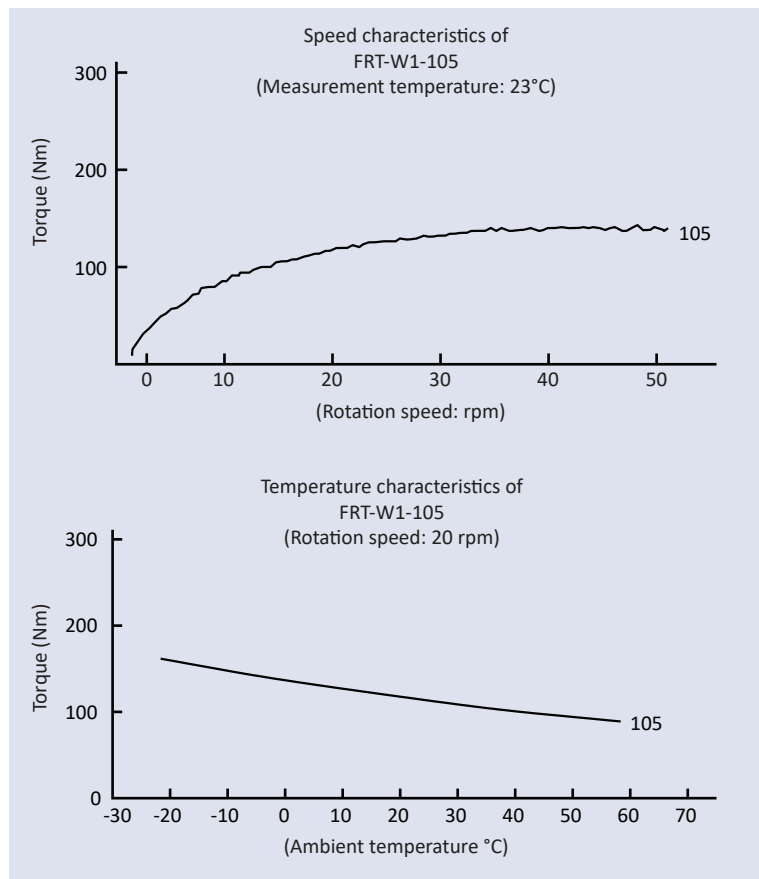
### SPECIFICATIONS

| Model      | Rated Torque | Damping Direction | Max Rotation Speed | Max Cycle Rate  |
|------------|--------------|-------------------|--------------------|-----------------|
| FRT-W1-105 | 100±20Nm     | Both directions   | 50 RPM             | 1.5 cycles/min. |

| Operating Temperature | Weight | Main Body Material | Cap Material | Rotating Shaft Material | Oil Type     |
|-----------------------|--------|--------------------|--------------|-------------------------|--------------|
| -20 ~ 60°C            | 6000g  | SUS304             | A2017        | SUS420                  | Silicone Oil |

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

### DAMPING CHARACTERISTICS



- Speed characteristics:** A rotary damper's torque varies according to the rotation speed. In general, as shown in the graph to the left, 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.
- Temperature characteristics:** A rotary damper's torque varies according to the ambient temperature. In addition, as shown in the graph to the left, 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.