



## **SPECIFICATIONS**

Model	Max Torque	Max Reverse Torque	Max Rotation Speed
FFD-28FS-L103	1±0.1 Nm (10±1 kgfcm)	Counter- clockwise	30 RPM

Max Cycle	Operating	Weight	Body & Cap	Cap
Rate	Temperature		Material	Color
13 cycles/min.	-10 ~ 60°C (90%RH)	14±2g	POM	White

<sup>\*</sup> Rated torque is measured at a rotation speed of 20rpm at 20-25°C

## **HOW TO USE THE DAMPER**

- The damper generates torque in both the clockwise and counter-clockwise directions.
  (A one-way clutch is built in inside the damper.)
- 2. Please make sure that the shaft attached to a damper has a bearing, as the damper itself is not fitted with one.

Shaft's external dimensions	Ø8 <sub>-0.03</sub>	
Surface hardness	HRC55 or higher	
Quenching depth	0.5mm or higher	
Surface roughness	1.0Z or lower	
Chamfer end (Damper insertion side)	C0.2~C0.3 (orR0.2~R0.3)	

- 3. It can be used as a free-stop for a load that is smaller than the rated torque.
- 4. Please refer to the recommended dimensions in the chart when creating a shaft for attachment to the damper. Using a shaft outside of the recommended dimensions may cause the shaft to slip out.
- 5. To insert a shaft into the damper, insert the shaft while spinning it in the opposite direction of the damper's direction of torque generation. (Do not force the shaft in from a regular direction. This may damage the built-in oneway clutch.)