



SPECIFICATIONS

| Model | Max Torque | Max Reverse Torque | Max Rotation Speed |
|---------------|--------------------------|--------------------|--------------------|
| FFD-30FS-R103 | 1±0.1 Nm (10±1 kgfcm) | Clockwise | 30 RPM |

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

* 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.)
- Please make sure that the shaft attached to a damper has a bearing, as the damper itself is not fitted with one.
- It can be used as a free-stop for a load that is smaller than the rated torque.
- 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.
- 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.)

| | |
|----------------------------------------|---------------------------------|
| Shaft's external dimensions | $\varnothing 8_{-0.03}^0$ |
| 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 (or R0.2~R0.3) |