



### SPECIFICATIONS

| Model         | Max Torque               | Max Reverse Torque | Max Rotation Speed |
|---------------|--------------------------|--------------------|--------------------|
| FFD-25FS-R103 | 1±0.1 Nm<br>(10±1 kgfcm) | Clockwise          | 30 RPM             |

| Max Cycle Rate | Operating Temperature | Weight | Body & Cap Material | Cap Color |
|----------------|-----------------------|--------|---------------------|-----------|
| 13 cycles/min. | -10 ~ 60°C<br>(90%RH) | 13±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            | $\varnothing 6_{-0.03}$             |
| Surface hardness                       | HRC55 or higher                     |
| Quenching depth                        | 0.5mm or higher                     |
| Surface roughness                      | 1.0Z or lower                       |
| Chamfer end<br>(Damper insertion side) | <p>C0.2~C0.3<br/>(or R0.2~R0.3)</p> |