

### SPECIFICATIONS

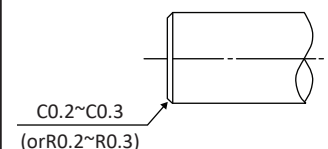
| Model         | Max Torque                    | Max Reverse Torque | Max Rotation Speed |
|---------------|-------------------------------|--------------------|--------------------|
| FFD-30FW-L253 | 2.5±0.25 Nm<br>(25±2.5 kgfcm) | Counter-clockwise  | 30 RPM             |

| Max Cycle Rate | Operating Temperature | Weight | Body & Cap Material | Cap Color |
|----------------|-----------------------|--------|---------------------|-----------|
| 13 cycles/min. | -10 ~ 60°C<br>(90%RH) | 31±2g  | POM                 | White     |

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

### HOW TO USE THE DAMPER

1. 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.
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.)

|  |   |
|--|---|
| Shaft's external dimensions            | $\varnothing 10_{-0.03}^0$  |
| Surface hardness                       | HRC55 or higher   |
| Quenching depth                        | 0.5mm or higher   |
| Surface roughness                      | 1.0Z or lower   |
| Chamfer end<br>(Damper insertion side) | <br>C0.2~C0.3<br>(orR0.2~R0.3) |