

Friction Damper

FFD-25FS/FW/SS/SW Series

Fixed Type

Bi-Directional

Adjustable type

Uni-Directional

Self-adjusting

RoHS Compliant

●Products specification might be changed without notice.



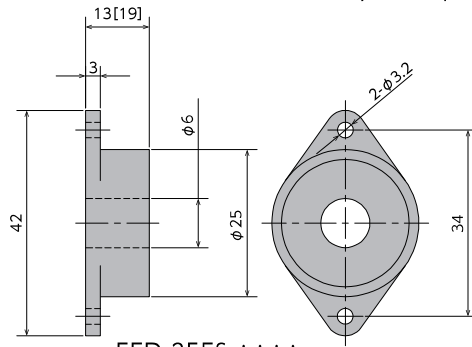
Specifications

Model	Max. torque	Max. reverse torque	Model	Max. torque	Max. reverse torque
FFD-25FS-R102	0.1±0.01 (N·m)	Clockwise	FFD-25SS-R102	0.1±0.01 (N·m)	Clockwise
FFD-25FS-L102	(1±0.1 kgf·cm)	Counter-clockwise	FFD-25SS-L102	(1±0.1 kgf·cm)	Counter-clockwise
FFD-25FS-R502	0.5±0.05 (N·m)	Clockwise	FFD-25SS-R502	0.5±0.05 (N·m)	Clockwise
FFD-25FS-L502	(5±0.5 kgf·cm)	Counter-clockwise	FFD-25SS-L502	(5±0.5 kgf·cm)	Counter-clockwise
FFD-25FS-R103	1±0.1 (N·m)	Clockwise	FFD-25SS-R103	1±0.1 (N·m)	Clockwise
FFD-25FS-L103	(10±1 kgf·cm)	Counter-clockwise	FFD-25SS-L103	(10±1 kgf·cm)	Counter-clockwise
FFD-25FW-R103	1±0.1 (N·m)	Clockwise	FFD-25SW-R103	1±0.1 (N·m)	Clockwise
FFD-25FW-L103	(10±1 kgf·cm)	Counter-clockwise	FFD-25SW-L103	(10±1 kgf·cm)	Counter-clockwise
FFD-25FW-R153	1.5±0.15 (N·m)	Clockwise	FFD-25SW-R153	1.5±0.15 (N·m)	Clockwise
FFD-25FW-L153	(15±1.5 kgf·cm)	Counter-clockwise	FFD-25SW-L153	(15±1.5 kgf·cm)	Counter-clockwise
FFD-25FW-R203	2±0.2 (N·m)	Clockwise	FFD-25SW-R203	2±0.2 (N·m)	Clockwise
FFD-25FW-L203	(20±2 kgf·cm)	Counter-clockwise	FFD-25SW-L203	(20±2 kgf·cm)	Counter-clockwise

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

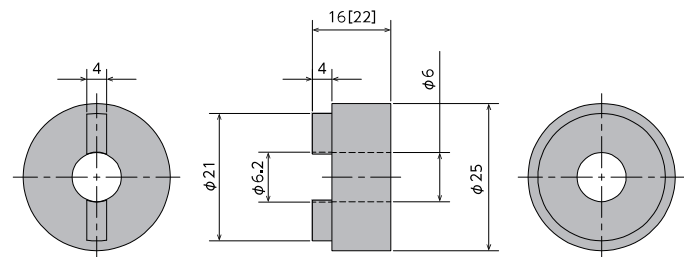
*Max. rotation speed 30rpm
 *Max. cycle rate 13cycle/min
 *Operating temperature -10~60°C (90%RH)
 *Body and cap material POM

*Cap colour R:Black L:White
 *Weight FFD-25FS 13±2g
 FFD-25FW 24±2g
 FFD-25SS 12±2g
 FFD-25SW 23±2g



FFD-25FS-****

(Dimension of FFD-25FW-**** are in [])



FFD-25SS-****

(Dimension of FFD-25SW-**** are in [])

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 below when creating a shaft for attachment to the damper. Using a shaft outside of the recommended dimensions may cause the shaft to slip out.

Shaft's external dimensions	6.φ _{0.3}
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)

- 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.)