

Vane Damper

FYN-M1 Series



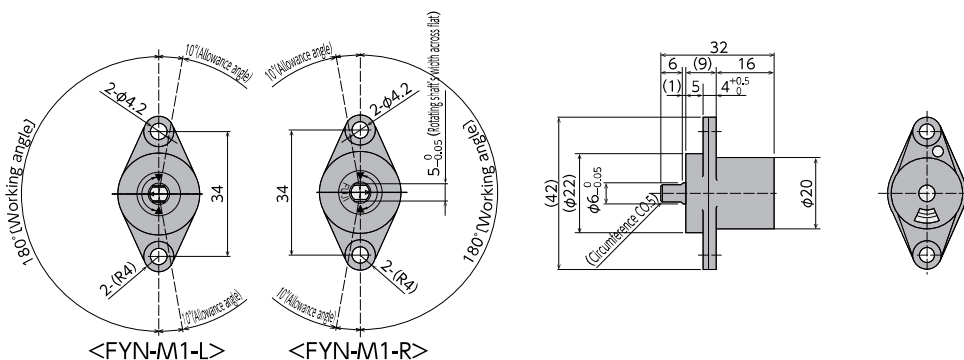
- * Max. angle 180°
- * Max. cycle rate 6cycle / min
- * Operating temperature -5~50°C
- * Weight 17±2g
- * Main body Polybutylene terephthalate (PBT)
- * Cap material Polybutylene terephthalate (PBT)

Specifications

Model	Max. torque	Reverse torque	Damping direction
FYN-M1-R152	0.15 N·m	0.1 N·m or lower	Clockwise
FYN-M1-L152	(1.5 kgf·cm)	(1kgf·cm or lower)	Counter-clockwise
FYN-M1-R252	0.25 N·m	0.2 N·m or lower	Clockwise
FYN-M1-L252	(2.5 kgf·cm)	(2 kgf·cm or lower)	Counter-clockwise
FYN-M1-R352	0.35 N·m	0.2 N·m or lower	Clockwise
FYN-M1-L352	(3.5 kgf·cm)	(2 kgf·cm or lower)	Counter-clockwise
FYN-M1-R602	0.60 N·m	0.4 N·m or lower	Clockwise
FYN-M1-L602	(6.0kgf·cm)	(4 kgf·cm or lower)	Counter-clockwise

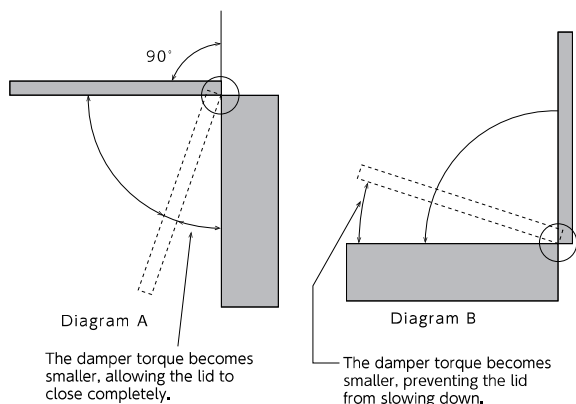
Note) Measured at 23°C±2°C

- * Rotating shaft material Zinc die-cast (ZDC)
- * Oil type Silicone oil
- * Cap colour R: Black L: Gray

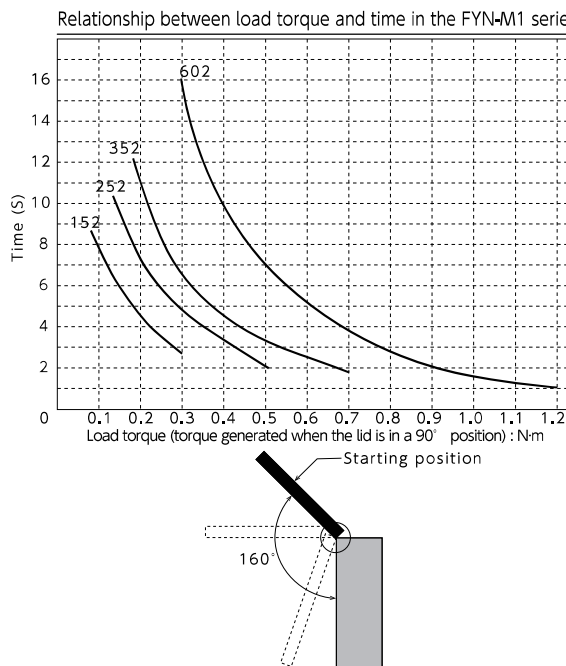


How to Use the Damper

- The FYN-M1 Series is designed to generate a large torque up to 90° in a closing lid, as shown in Diagram A, and the lid is able to close completely. However, when the lid is closed from a vertical position, as shown in Diagram B, the lid cannot be slowed down, as the torque becomes small just before the lid is completely closed.

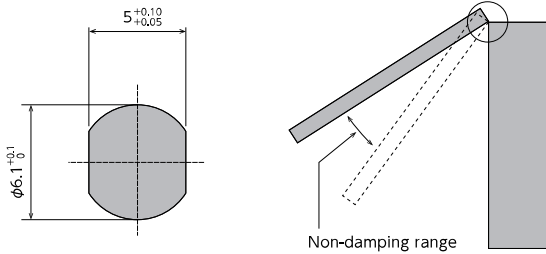


- Below is a graph showing the relationship between the load torque and the time when a lid is closed from a 160° angle, as shown in the diagram.



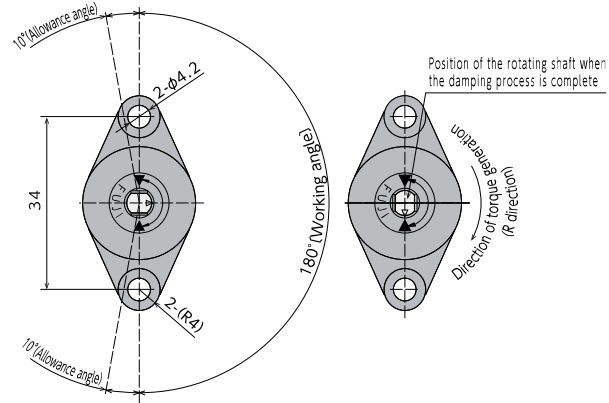
●Products specification might be changed without notice.

3. When connecting the rotating shaft to other parts, please ensure a tight fit between them. Without a tight fit, the lid will not slow down properly when closing.



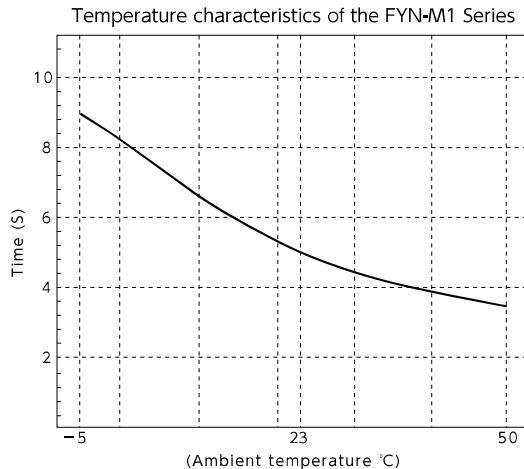
<Recommended dimensions for a rotating shaft opening>

5. The standard for a damper's working angle is 180° with respect to the main body's attachment flange. Rotating the damper beyond this angle will cause damage to the damper. Please make sure that an external stopper is in place.



<FYN-M1-R>

4. The time it takes for a lid with a damper to close varies according to the ambient temperature. As the temperature increases, it takes less time, and as the temperature decreases, it will take longer for the lid to close. This is because the viscosity of the oil inside the damper changes according to the temperature. When the temperature returns to normal, the required time will return to normal as well. The temperature characteristics are shown in the graph below.



6. The direction in which torque is generated varies according to the model. Please select the appropriate model for your purpose.