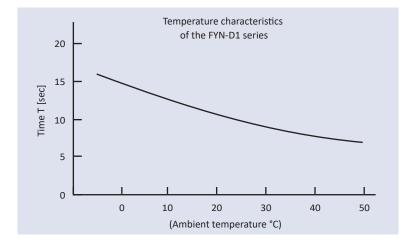
Bansbach easylift.

		SPECIFICATIONS					
		Model		Max Torque	Reverse Torque		Damping Direction
		FYN-D1-L104		10Nm (100kgfcm)		0.5Nm or lower 5kgfcm or lower)	Counter- clockwise
Max Angle	Operating Temperature		Weight	Body and C Material		Rotor (Shaft) Material	Oil Type
105°	-5 ~ 50°C		215±10g	Zinc die-ca (ZDC)	st	S25C	Silicone Oil

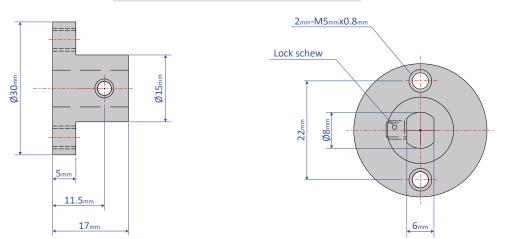
Note) Measured at 23°C±2°C The FYT/N-D2 series has a shorter shaft length

DAMPING CHARACTERISTICS



Damper characteristics vary according to the ambient temperature. In general, the damper characteristics become weaker as the temperature increases, and become stronger as the temperature decreases. This is because the viscosity of the oil inside the damper varies according to the temperature. When the temperature returns to normal, the damper characteristics will return to normal as well. The changes in the time it takes for the lid to close are shown in the graph to the left.

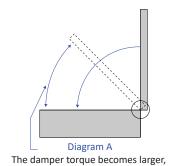
OPTIONAL PART



Rotating Shaft Flange ROP-010H1

HOW TO USE THE DAMPER

The uni-directional FYN-D1 is designed to generate a large torque just before a lid closing from a vertical position, as shown in Diagram A, comes to a full closure. When a lid is closed from a horizontal position, as shown in Diagram B, a strong torque is generated just before the lid is fully closed, causing the lid to not close properly. Torque is generated in both clockwise and counterclockwise directions in the FYT-D1 series. Unlike the FYN-D1 series, it does not have a fixed orifice for adjusting torque. Therefore, torque remains constant at any angle.



preventing the lid from slowing down

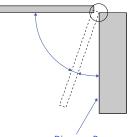
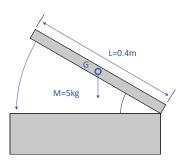


Diagram B The damper torque becomes larger, preventing the lid from closing completely

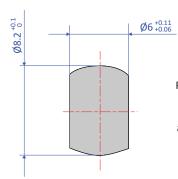
The angle in which the damper torque becomes large can be customized by modifying the inside orifice

When using a damper on a lid, such as the one shown in the diagram, use the following selection calculation to determine the damper torque.

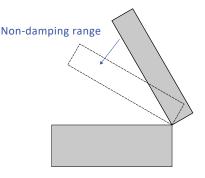
Example) Lid mass M : 5kg Lid dimensions L : 0.4m <u>L</u> Gravity Center Position : Assumed as 2 Load torque : T = $5 \times 9.8 \times 0.4 \div 2$ = $9.8 \text{ N} \cdot \text{m}$ Based on the above calculation, FYN-D1-*104 is selected.

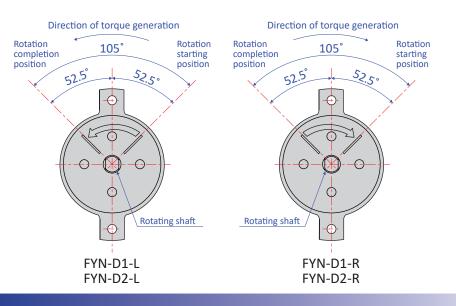


When connecting the rotating shaft to other parts, please ensure a tight fit between them. Without a tight fit, the lid will not slow down properly when closing. The corresponding dimensions for fixing the rotating shaft and the main body are as follows.



Recommended dimensions for mounting a rotating shaft





• The damper's working angle is 105° with respect to the attachment flange, as shown to the left. Please determine where to attach it according to your needs. Also, rotating the damper beyond this angle will cause damage to the damper. Please ensure that an external stopper is in place.

• The FYN-D1 series is a fixed type; its torque is non-adjustable. However, a customized order for a torque between the range of $2\sim 20$ N·m is possible by changing the oil viscosity.

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