FRN-D3-R501-G1 Rotary Damper

Bansbach easylift

Silicone

Oil

Black

Operating

Temperature

0~50°C

	SPECIFICATIONS								
	Model	Rated Torque	Damping Direction			Max Cycle Rate			
	FRN-D3-R501-G1	(50±10)X10 ⁻³ Nm (500±100gfcm) Clockwise		50 RPM		10 cycles/ min.			
Weight	Body & Cap Material	Rotating Shaft Material	Gear Material		Oil Type	Cap Colo			

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Note 1) Rated torque measured at a rotation speed of 20rpm at 23°C Note 2) Gear model number has G1 at the end Note 3) Torque can be customized by changing the oil viscosity

13g

Polyacetal (POM)

There are dampers that generate torque in both directions and one-way torque in the clockwise direction or counter clockwise direction when the rotating axle is viewed from the top

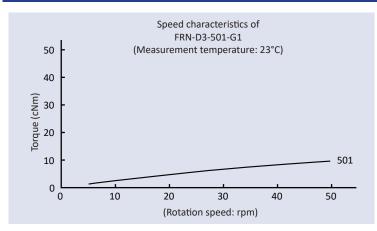
Polyacetal (POM)

GEAR SPECIFICATIONS

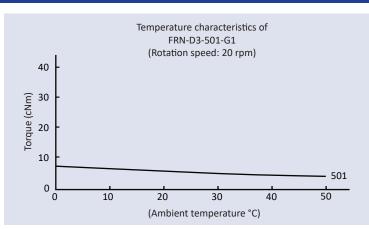
Metal (SUS)

Model	Туре	Tooth Profile	Module	Pressure Angle	Number of Teeth	Pitch Circle Diameter	Addendum Modification Coefficient	Weight (damper+gear)
G1	Profile Shifted Spur Gear	Involute	1.0	20°	12	ø12	+0.375	13g (12.3g+0.7g)

DAMPING CHARACTERISTICS



• **Speed characteristics:** A rotary damper's torque varies according to the rotation speed. In general, as shown in the graph above, the torque increases as the rotation speed increases, and the torque decreases as the rotation speed decreases. In addition, please note that the starting torque slightly differs from the rated torque.



Temperature characteristics: A rotary damper's torque varies according to the ambient temperature. In addition, as shown in the graph above, the torque decreases as the ambient temperature increases, and the torque increases as the ambient temperature decreases. This is because the viscosity of the silicone oil inside the damper varies according to the temperature. When the temperature returns to normal, the torque will return to normal as well.