## Bansbach easylift

Silicone

Oil

Black

0	

Operating

Temperature

 $0 \sim 50^{\circ}C$ 

	SPECIFICATIONS							
	Model	Rated Torque	Damping Direction	Max Rotation Speed 50 RPM		Max Cycle Rate 10 cycles/ min.		
	FRN-D3-R102-G1	(100±20)X10 <sup>-3</sup> Nm (1000±200gfcm)	Clockwise					
Weight	Body & Cap	Rotating Shaft	Gear		Oil		Сар	
weight	Material	Material	Materia	al	Туре		Color	

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

Polyacetal (POM)

13g

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

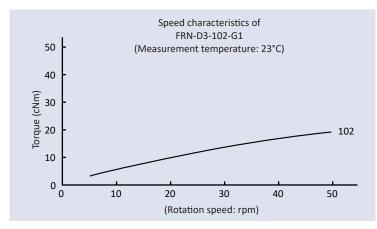
Polyacetal (POM)

## **GEAR SPECIFICATIONS**

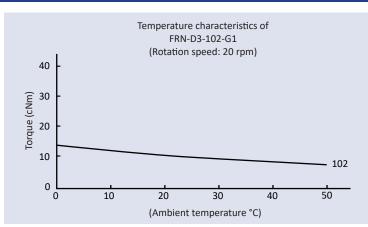
Metal (SUS)

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.