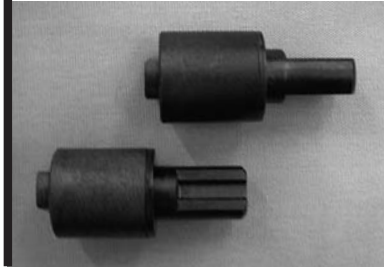


# ROTARY DAMPERS

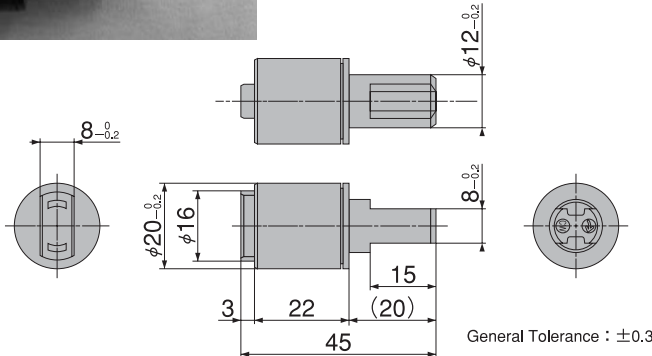
## TD69 SERIES

COMPACT AND HIGH-TORQUE AND HEAT RESISTANCE

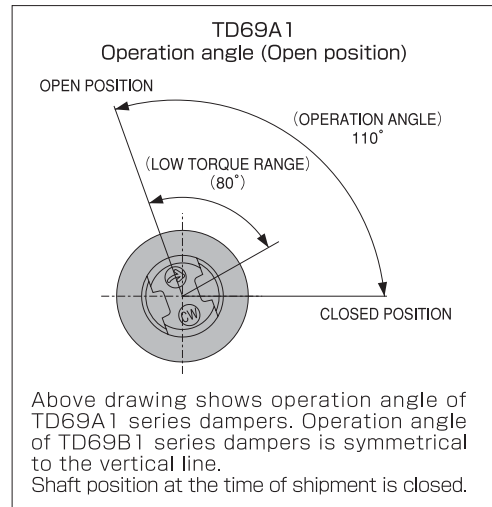


### FEATURES

- RoHS Compliance
- Possible to use in the high temperature of 80°C owing to super engineering plastic.
- Achieved the torque of 3.43N·m for outer diameter 20mm.



General Tolerance : ±0.3

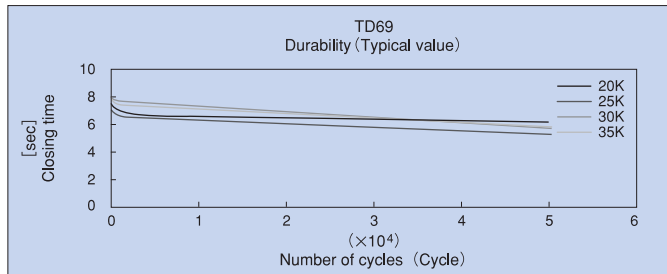


Code	Part No.	Allowable Torque [N·m] (Kgf·cm)	Direction
606906	TD69A1-20K	[1.96] (20)	CW (R)
606904	TD69A1-25K	[2.45] (25)	CW (R)
606902	TD69A1-30K	[2.94] (30)	CW (R)
606900	TD69A1-35K	[3.43] (35)	CW (R)

Code	Part No.	Allowable Torque [N·m] (Kgf·cm)	Direction
606907	TD69B1-20K	[1.96] (20)	CCW (L)
606905	TD69B1-25K	[2.45] (25)	CCW (L)
606903	TD69B1-30K	[2.94] (30)	CCW (L)
606901	TD69B1-35K	[3.43] (35)	CCW (L)

### DURABILITY

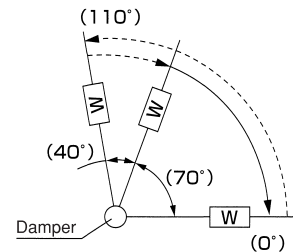
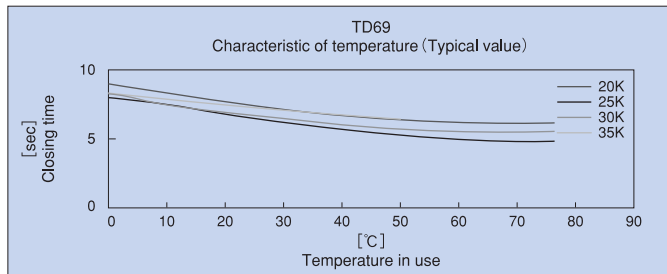
Each damper is set-up with an applied torque and weight on the shaft of the testing device. Measurements for closing time are taken under above condition.



Operation angle	110°		
Durability	50,000cycles		
Closing time	range of operation temperature	Applied torque	Initial value
	-5~80 [°C]	1.96N·m (20kgf·cm)	3~12 (sec)
	-5~80 [°C]	2.45N·m (25kgf·cm)	3~12 (sec)
	-5~80 [°C]	2.94N·m (30kgf·cm)	3~12 (sec)
-5~50 [°C]	3.43N·m (35kgf·cm)	3~12 (sec)	

### TEMPERATURE CHARACTERISTICS

After the damper is stabilized at room temperature for 1 hour or more, the closing time is measured using a TOK made device.



### TEST CONDITION

- ① Setting-up time : 15sec/cycle
- ② Applied torque : 1.96N·m (20kgf·cm)  
2.94N·m (30kgf·cm)  
2.45N·m (25kgf·cm)  
3.43N·m (35kgf·cm)
- ③ Temp : 23°C ± 2°C 1.96N·m (20kgf·cm)  
2.94N·m (30kgf·cm)  
80°C ± 2°C 2.45N·m (25kgf·cm)  
50°C ± 2°C 3.43N·m (35kgf·cm)
- ④ Angle for measuring the closing time : 70°→0°
- ⑤ Radial force : nothing
- ⑥ Closing time after durability test : 1 sec or more

### TOK BEARING CO.,LTD.

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EMAIL : overseas@tok-bearing.co.jp

Product specification are subject to change without prior notice.

**Before assembly or use of any bearing, please read "Caution for Use"**