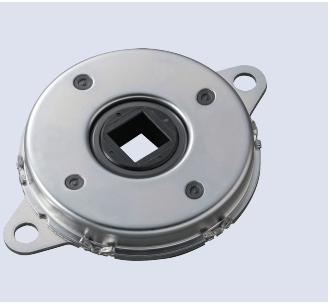
FDT-57A-503
Disk Damper

Bansbach easylift®



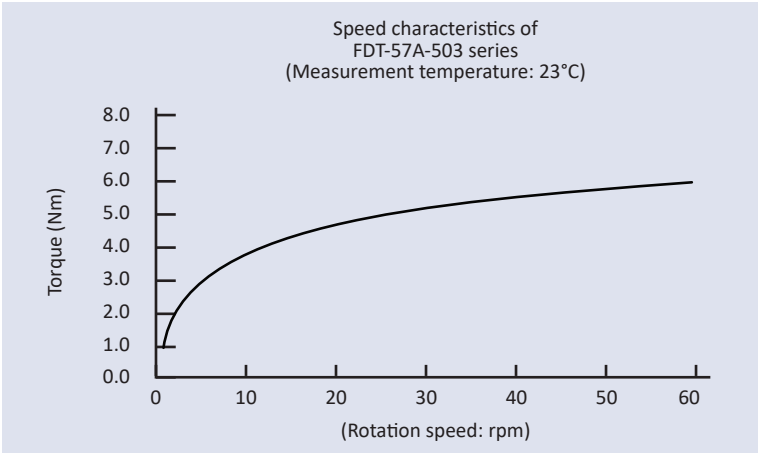
SPECIFICATIONS

Model	Rated Torque	Damping Direction	Max Rotation Speed
FDN-57A-503	4.7±0.5Nm (47±5kgfcm)	Both directions	50 RPM

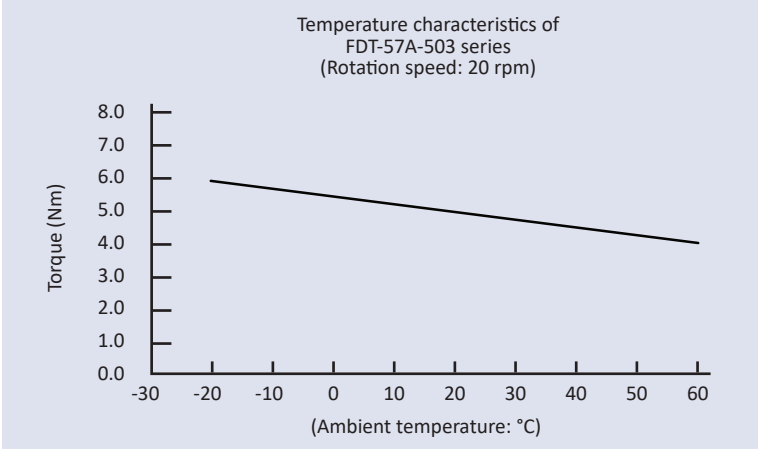
Max Cycle Rate	Operating Temperature	Weight	Body Material	Rotor (Shaft) Material	Oil Type
12 cycles/min.	-10 ~ 50˚C	75g	Iron	Nylon/glass fiber composite	Silicone Oil

Note) Rated torque is measured at a rotation speed of 20rpm at 23°C±3°C

DAMPING CHARACTERISTICS



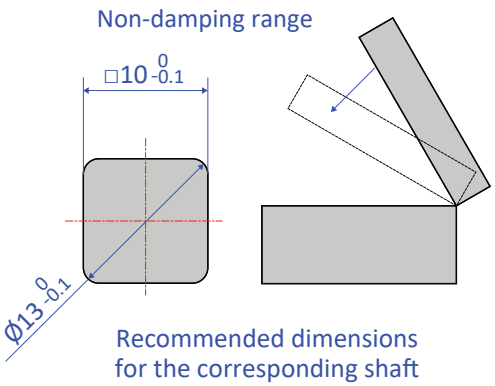
- **Speed characteristics:** A disk damper's torque varies according to the rotation speed. In general, as shown in the graph to the left, the torque increases as the rotation speed increases, and the torque decreases as the rotation speed decreases. Torque at 20 rpm is shown in this document. In a closing lid, the rotation speed is slow when the lid begins to close, resulting in the generation of torque that is smaller than the rated torque.



- **Temperature characteristics:** Damper torque (rated torque in this document) varies according to the ambient temperature. As the temperature increases, the torque decreases, and as the temperature decreases, the torque increases. This is because the viscosity of the silicone oil inside the damper varies according to the temperature. The graph to the left illustrates the temperature characteristics.

USING THE DAMPER

Shafts external dimensions	Ø10mm - Ø9.97mm
Surface hardness	HRC55 or higher
Quenching depth	0.5mm or higher
Surface roughness	1.0Z or lower
Chamfer end (Damper insertion side)	CO.2~CO.3 (or RO.2~RO.3)



- FDT-57A dampers generate torque in both directions.
- Please make sure that a shaft attached to a damper has a bearing, as the damper itself is not fitted with one.
- When using FDT-57A, please ensure that a shaft with the specified angular dimensions is inserted in the damper's shaft opening. A wobbling shaft may not allow the lid to slow down properly when closing. Please see the diagram for the recommended square shaft dimensions.

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BANSBACH EASYLIFT:

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A0A0N40-210-473-580N K0N0KK2-200-589-1110N H0N0F42-100-264-535N D0M0N45-203-480-1555N
D0M0ZF3-305-400-270N H0N0F42-300-647-1110N B0N0N40-200-462-065N B0N0N40-210-473-270N
D0M0ZF3-305-400-180N H0N0F42-150-347-270N K0N0BK2-510-1095-180N K0N0KK2-150-460-890N
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