TD56 Horizontal use

RoHS compliant

Product lineup

Product image

TD56A

TD56B

Features

- High rigidity achieved by the use of zinc alloy
- Superior damping responsiveness
- The thin shaft
- Using the attachment, the form of TD56 will be the same as TD99

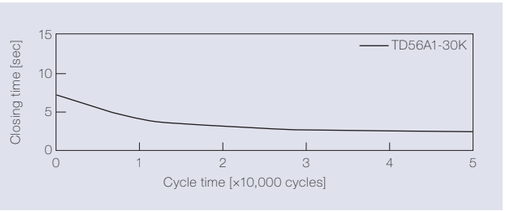
Product name	Torque [N・m] (lbf・in)	Damping direction
TD56A1-10K	0.98 (8.67)	CW
TD56A1-15K	1.47 (13.01)	
TD56A1-20K	1.96 (17.35)	
TD56A1-25K	2.45 (21.68)	
TD56A1-30K	2.94 (26.02)	

Product name	Torque [N・m] (lbf・in)	Damping direction
TD56B1-10K	0.98 (8.67)	CCW
TD56B1-15K	1.47 (13.01)	
TD56B1-20K	1.96 (17.35)	
TD56B1-25K	2.45 (21.68)	
TD56B1-30K	2.94 (26.02)	

The products with the attachment have “-AT” at the end of the product name.

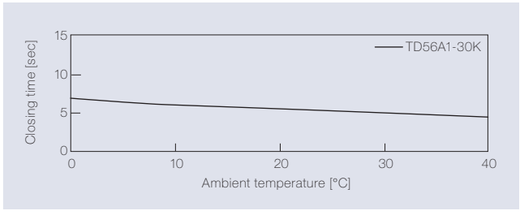
Product specifications

Durability



Torque	2.94 N・m (26.02 lbf・in)
Radial load	N/A
Angle range of closing time	70 to 0 deg.
Temperature	23 ± 2°C (73.4 ± 35.6°F)
Durability	50,000 cycles

Temperature characteristics



Measured according to the performance management testing method shown below after leaving in each designated ambient temperature for over one hour.

Performance management testing method

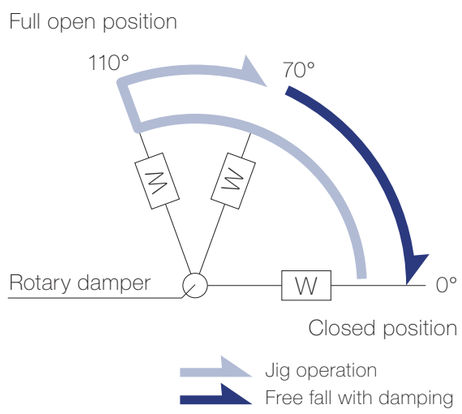
As the torque of partial rotation angle dampers is not consistent, the closing time measurement jig is used for the performance tests.

[Operation during measurement]
(Secures the housing of a rotary damper and moves its shaft)
All rotary dampers are managed by the following closing time test.

Test mode [110° → 70° (Pause) → (Free fall with damping) → 0°]
* Horizontal plane: 0°

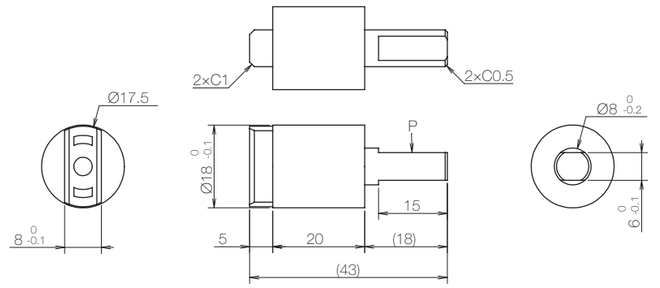
Inspection specification before shipping

Type	Preset torque [N・m] (lbf・in)	Closing time
10K	0.98 (8.67)	3 to 10 sec
15K	1.47 (13.01)	
20K	1.96 (17.35)	
25K	2.45 (21.68)	
30K	2.94 (26.02)	



Product information

[mm]



* General tolerance: ±0.3

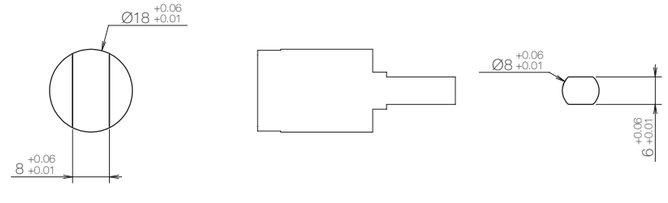
- Opening angle: 110°
- Product weight: Approx. 30 g
- Allowable radial load (P): 29.4 N

Main materials

Housing	Zinc alloy (ZDC)
Cap	Zinc alloy (ZDC)
Ring screw	Zinc alloy (ZDC)

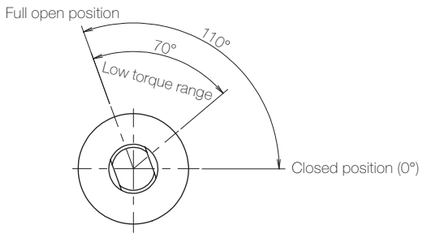
Dimensions related to mounting

[mm]

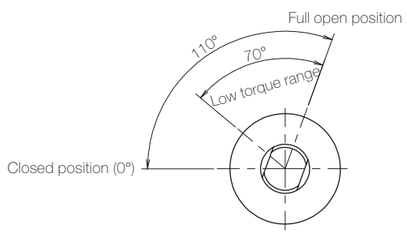


Opening angle

TD56A



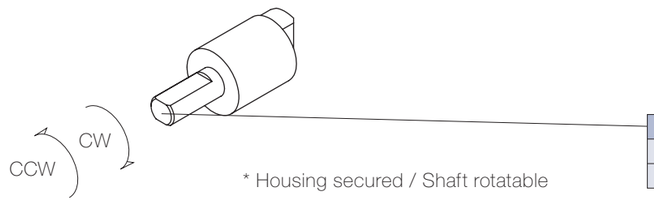
TD56B



* Shaft position at the time of shipping: Closed position

Damping directions

Rotation directions of the shaft to which torque is applied



* Housing secured / Shaft rotatable

Damping direction	Engraved mark
CW	CW
CCW	CCW