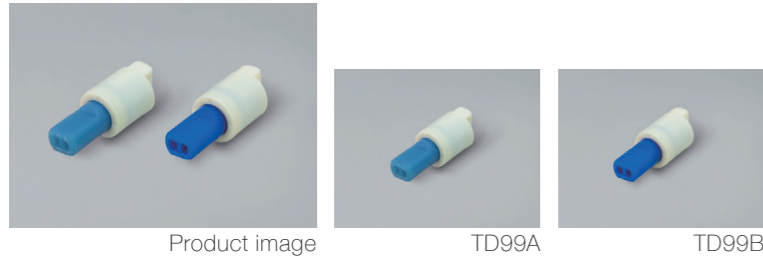


## Product lineup



### Features

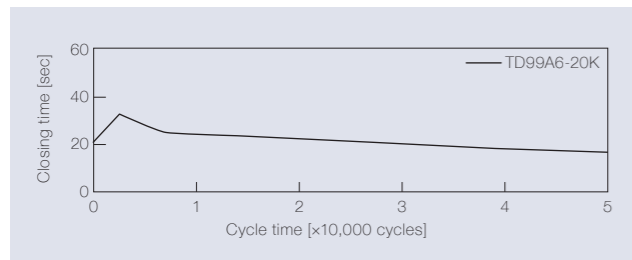
- The most popular damper design
- Vertical use version of TD99
- TD99 series is identifiable by the shaft color

Product name	Torque [N·m] (lbf·in)	Damping direction	Shaft color
TD99A6-10K	1.0 (8.85)	CW	Light blue
TD99A6-15K	1.5 (13.28)		
TD99A6-20K	2.0 (17.70)		

Product name	Torque [N·m] (lbf·in)	Damping direction	Shaft color
TD99B6-10K	1.0 (8.85)	CCW	Blue
TD99B6-15K	1.5 (13.28)		
TD99B6-20K	2.0 (17.70)		

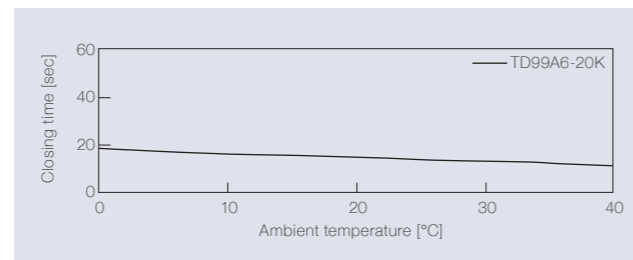
## Product specifications

### Durability



Torque	2.0 N·m (17.70 lbf·in)
Radial load	N/A
Angle range of closing time	90 to 5 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

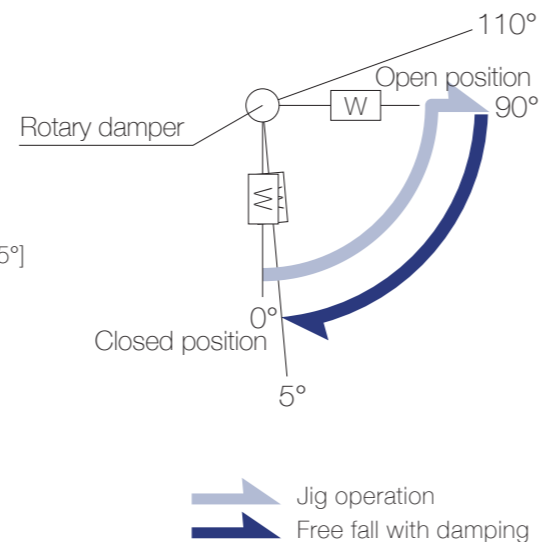
As the torque of partial rotation angle dampers is not consistent, the closing time measurement jig is used for the performance tests.

[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.

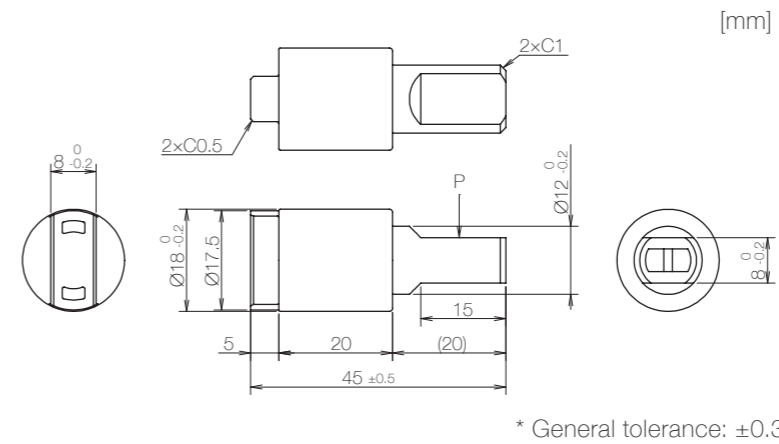
Durability test mode [5° → 90° (Pause) → (Free fall with damping) → 5°]  
Shipping inspection mode [0° → 90° (Pause) → (Free fall with damping) → 5°]  
\* Horizontal plane: 90°

### Inspection specification before shipping

Type	Preset torque [N·m] (lbf·in)	Closing time
10K	1.0 (8.85)	5 to 20 sec
15K	1.5 (13.28)	
20K	2.0 (17.70)	



## Product information

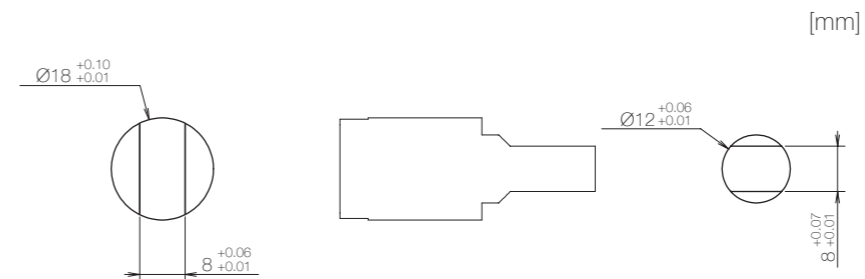


- Opening angle: 110°
- Product weight: Approx. 10 g
- Allowable radial load (P): 29.4 N

### Main materials

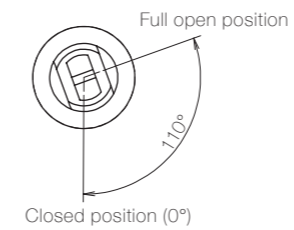
Housing	Plastic (PBT)
Cap	Plastic (PBT)
Shaft	Plastic (PA)

## Dimensions related to mounting

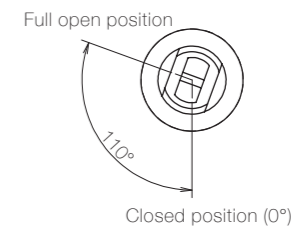


## Opening angle

### TD99A



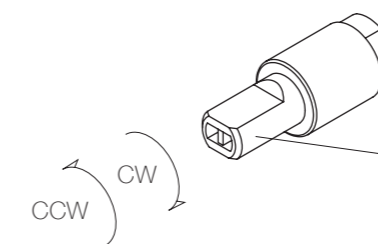
### TD99B



\* 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	Shaft color
CW	Light blue
CCW	Blue