RoHS compliant

### Product lineup





TD133A



TD133B



Features

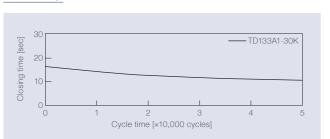
- Replaceable design with TD69
- Zinc alloy is applied for the shaft
- High torque with Ø 20 mm damper (Up to 3 N·m)

Product name	Torque [N·m] (lbf·in)	Damping direction
TD133A1-30K	3.0 (26.55)	CW

Product name	Torque [N·m] (lbf·in)	Damping direction
TD133B1-30K	3.0 (26.55)	CCW

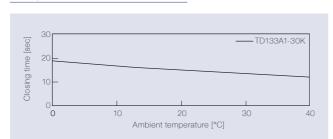
## Product specifications

### Durability



Torque	3.0 N·m (26.55 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.

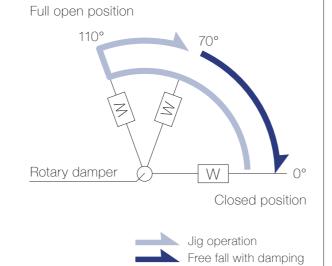
### Performance management testing method

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.

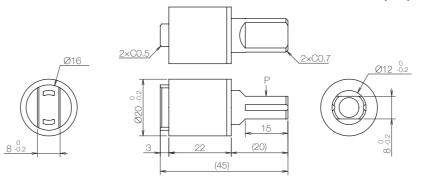
Test mode [110°  $\rightarrow$  70° (Pause)  $\rightarrow$  (Free fall with damping)  $\rightarrow$  0°] \* Horizontal plane: 0°



#### Inspection specification before shipping

Type	Preset torque [N·m] (lbf·in)	Closing time
30K	3.0 (26.55)	5 to 20 sec
	•	

### Product information



\* General tolerance: ±0.3

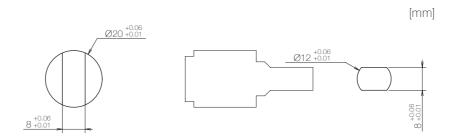
[mm]

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

#### Main materials

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Housing	Plastic (PBT)	
Cap	Plastic (PBT)	
Shaft	Zinc alloy (ZDC)	

## Dimensions related to mounting



# Opening angle



<sup>\*</sup> Shaft position at the time of shipping: Open position

## Damping directions

Rotation directions of the shaft to which torque is applied

