RoHS compliant

Damping direction

CW

CCW

CW

Product lineup





2(/28)

Product image

Horizontal use

77	TD28	

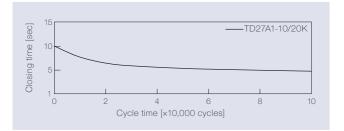
- Equipped with torque adjustment function - A dedicated bracket enables the use of this

product as a rotary damper hinge

Product name	Torque [N•m] (lbf•in)	Damping direction
TD27A1-5/13K	0.49 (4.34) to 1.27 (11.24)	CW
TD27B1-5/13K	0.49 (4.04) (0 1.27 (11.24)	CCW
TD27A1-10/20K	0.98 (8.67) to 1.96 (17.35)	CW
TD27B1-10/20K		CCW

Product specifications

Durability



Torque	1.96 N•m(17.35 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	100,000 cycles

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					
Preset torque [N·m] (lbf·in)	Closing time				
1.27 (11.24)	0 to 15 ooo				
1.96 (17.35)	3 to 15 sec				
	Preset torque [N•m] (lbf•in) 1.27 (11.24)				

TD28B1-10/20K	0.00 (0.01) 10 1.00 (11.00)	CCW

Torque [N·m] (lbf·in)

0.49 (4.34) to 1.27 (11.24)

0.98 (8.67) to 1.96 (17.35)

Temperature characteristics

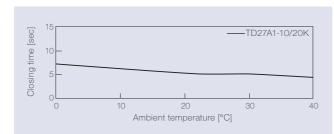
Features

Product name

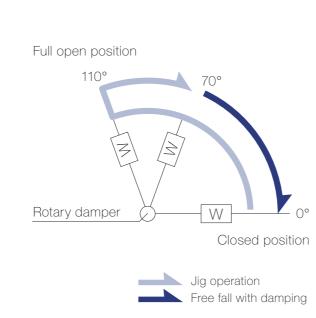
TD28A1-5/13K

TD28B1-5/13K

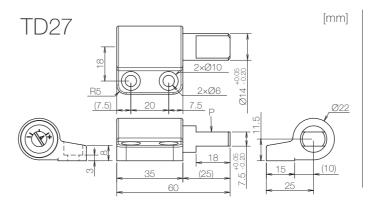
TD28A1-10/20K



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

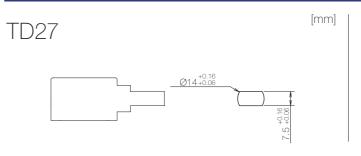


Product information

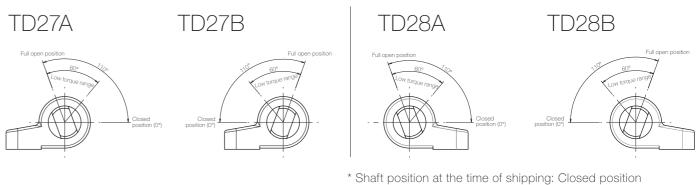


- Opening angle: 110°
- Product weight: Approx. 30 g
- Allowable radial load (P): 29.4 N

Dimensions related to mounting

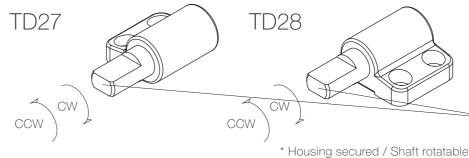


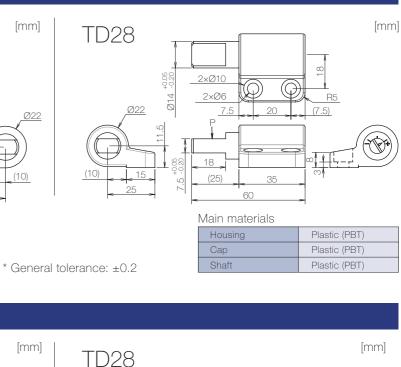
Opening angle



Damping directions

Rotation directions of the shaft to which torque is applied







* The adjustment slot position at the time of shipping: Max. torque

_	Damping direction	Engraved mark
	CW	R
	CCW	L



RoHS compliant

Torque adjustment function





Torque adjustment slot

Enlarged view

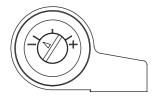
As the torque of the rotary damper is adjustable, it is not necessary to obtain the products with various torques according to the application to be used.

The torque can be adjusted simply by turning the slot of the rotary damper with a flathead screwdriver. Since the torque adjustment range can be more than doubled, the same rotary damper is applicable to both an application of 0.49 N·m and an application of 1.27 N·m.

Adjusting the torque makes coping with fine feeling and variation in an application possible.

Torque adjustment method

When increasing the torque

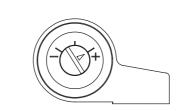


5/13K : 0.49N•m (4.34 lbf•in)

10/20K : 0.98N • m (8.67 lbf · in)



Rotate in the + (plus) direction



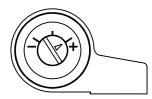
5/13K : 1.27N•m (11.24 lbf·in) 10/20K : 1.96N·m (17.35 lbf·in)

Adjustment position



5/13K : 0.69N•m (6.11 lbf•in) 10/20K : 1.22N · m (10.80 lbf·in)

When decreasing the torque





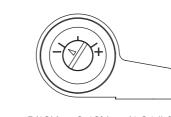


5/13K : 0.88N•m (7.79 lbf•in) 10/20K : 1.47N • m (13.01 lbf · in)

Rotate in the - (minus) direction



5/13K : 1.08N•m (9.56 lbf•in) 10/20K : 1.72N·m (15.22 lbf·in)



5/13K : 0.49N • m (4.34 lbf · in) 10/20K : 0.98N · m (8.67 lbf · in)

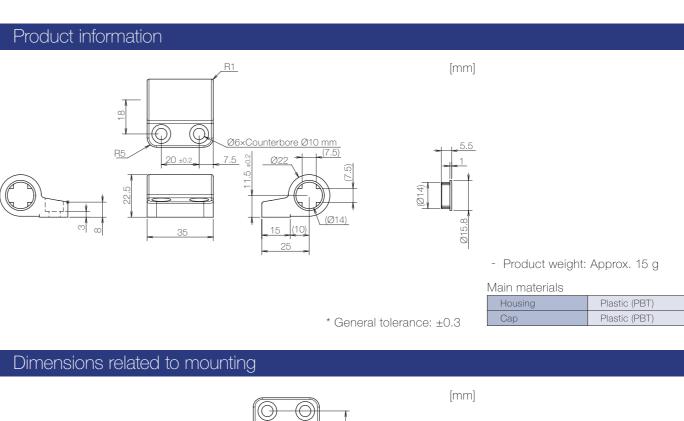


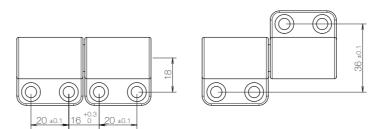
Product lineup



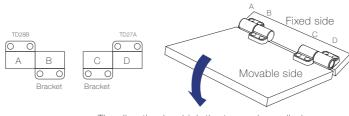
this product as a rotary damper hinge. It can be attached easily, and the shape of the rotary damper hinge (It's best to minimize the number of times of detaching the cap)

TD27/28 Bracket





Combination of the products that are mounted outside



The direction in which the torque is applied

RoHS compliant

Product name TD27/28 Bracket

- Combining TD27/28 with an optional bracket enables the use of
- can be changed depending on the method of mounting the bracket.
- And the cap of the bracket is detachable and can be used for either side.

Combination of the products that are mounted inside

