# **RoHS** compliant

### Product lineup





-High torque with  $\emptyset$  16 mm damper (Up to 3 N·m) -High rigidity achieved by the use of zinc alloy

for the shaft

Features

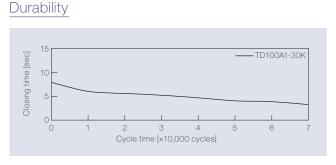
-Adding an option, quick release system: SR14, makes it easy to attach/detach the rotary damper

Product image

Product name	Torque [N·m] (lbf·in)	Damping direction	Cap color
TD100A1-10K	1.0 (8.85)		
TD100A1-15K	1.5 (13.28)		
TD100A1-20K	2.0 (17.70)	CW	Natural
TD100A1-25K	2.5 (22.13)		
TD100A1-30K	3.0 (26.55)		

Product name	Torque [N·m] (lbf·in)	Damping direction	Cap color
TD100B1-10K	1.0 (8.85)		
TD100B1-15K	1.5 (13.28)		
TD100B1-20K	2.0 (17.70)	CCW	Black
TD100B1-25K	2.5 (22.13)		
TD100B1-30K	3.0 (26.55)		

# Product specifications



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	70,000 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]

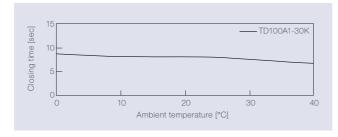
(Secures the housing of a rotary damper and moves its shaft) All rotary dampers are managed by the following closing time test.

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

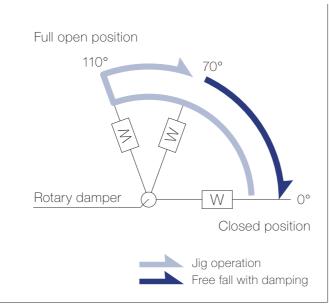
#### Inspection specification before shipping

Туре	Type Preset torque [N•m](lbf•h)	
10K	10K 1.0 (8.85)	
15K	1.5 (13.28)	
20K	2.0 (17.70)	3 to 12 sec
25K		
30K		

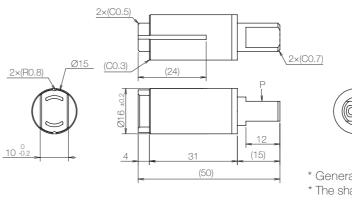
#### Temperature characteristics



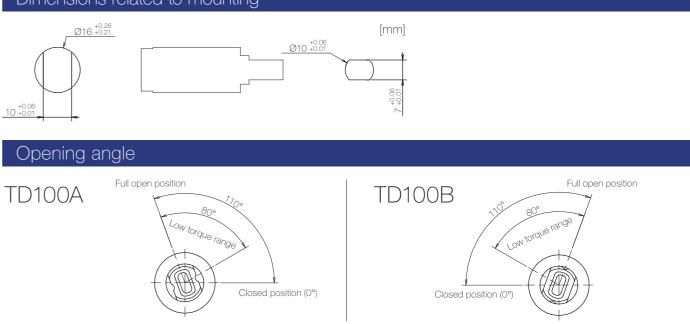
Measured according to the performance management testing method shown below after leaving in each designated ambient temperature for over one hour.

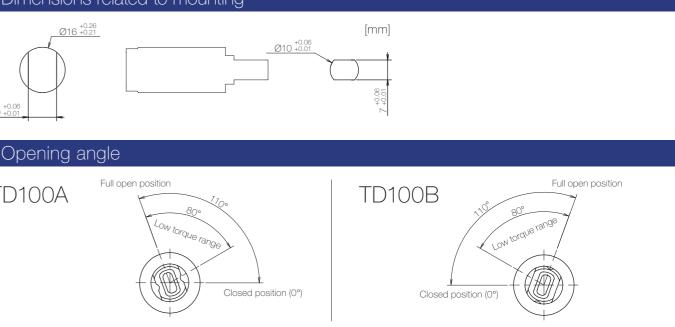


# Product information



## Dimensions related to mounting





# Damping directions

Rotation directions of the shaft to which torgue is applied



# Option (SR14)



SR14 is the quick release system that can be attached to and detached from the pin. It can be attached to the shaft with a single touch, and pressing the button detaches it from the pin easily. PBT plastic is used to ensure chemical resistance.



### [mm]



-Opening angle: 110°

-Product weight: Approx. 22 g

-Allowable radial load (P): 19.6 N

#### Main materials

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

#### \* General tolerance: ±0.3

\* The shaft has 2 grooves which identify the damping direction.

\*Shaft position at the time of shipping: Closed position

			Damping direction	Cap color
		CW	Natural	
			CCW	Black
	Damping direction	S	haft shape	
	CW	A groove on the flat surface of the shaft		ce of the shaft
able	CCW	A groove on the arc of the shaft		

-Product weight: Approx. 6 g

Main materials		
Case	Plastic (PBT)	
Button	Plastic (PBT)	