

## Product lineup



Product image



TD159A(CM)



TD159A(CM)-AT

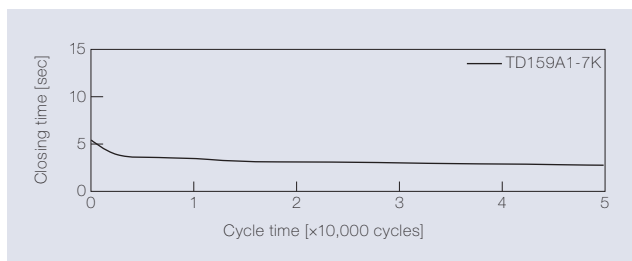
| Product name      | Torque [N·m] (lbf·in) | Damping direction |
|-------------------|-----------------------|-------------------|
| TD159A1-7K(CM)    | 0.7N·m(6.2lbf·in)     | CW                |
| TD159A1-7K(CM)-AT |                       |                   |

### Features

- Anti-rust type with chromate treatment is also available (CM-Type)
- Larger opening angle (280 degrees)
- The most popular damper design
- Using the attachment, the form of TD159 will be the same as TD99 (AT-Type)

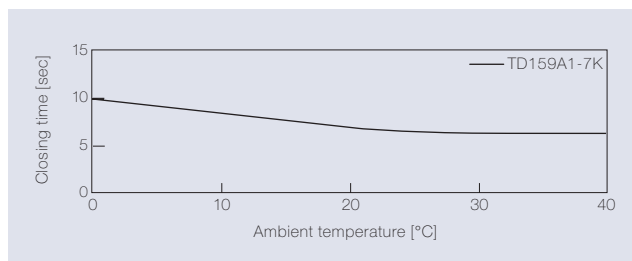
## Product specifications

### Durability



|                             |                         |
|-----------------------------|-------------------------|
| Torque                      | 0.7N·m (6.2lbf·in)      |
| Radial load                 | N/A                     |
| Angle range of closing time | 70 to 0 deg.            |
| Temperature                 | 23 ± 2°C (73.4 ± 3.6°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)

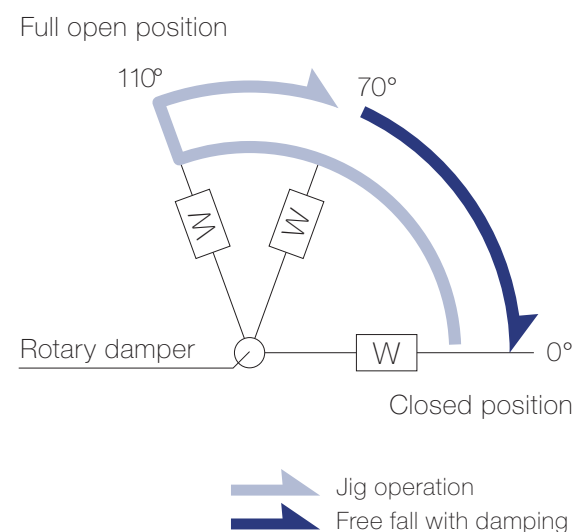
All rotary dampers are managed by the following closing time test.

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

\* Horizontal plane: 0°

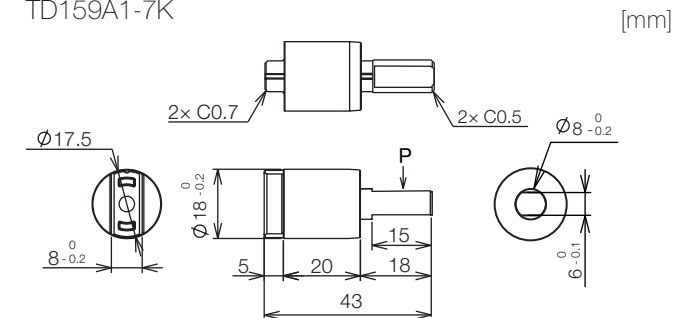
### Inspection specification before shipping

| Type | Preset torque [N·m] (lbf·in) | Closing time |
|------|------------------------------|--------------|
| 7K   | 0.7 (6.2)                    | 3 to 12 sec  |

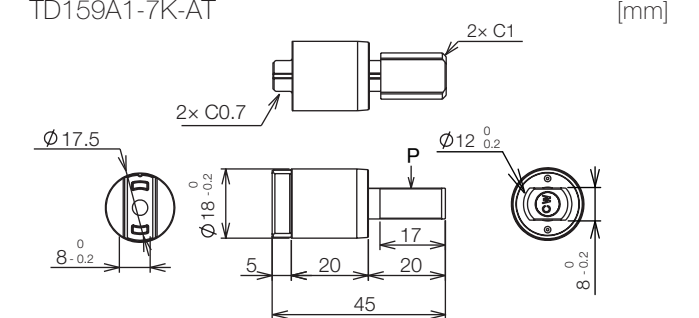


## Product information

TD159A1-7K



TD159A1-7K-AT



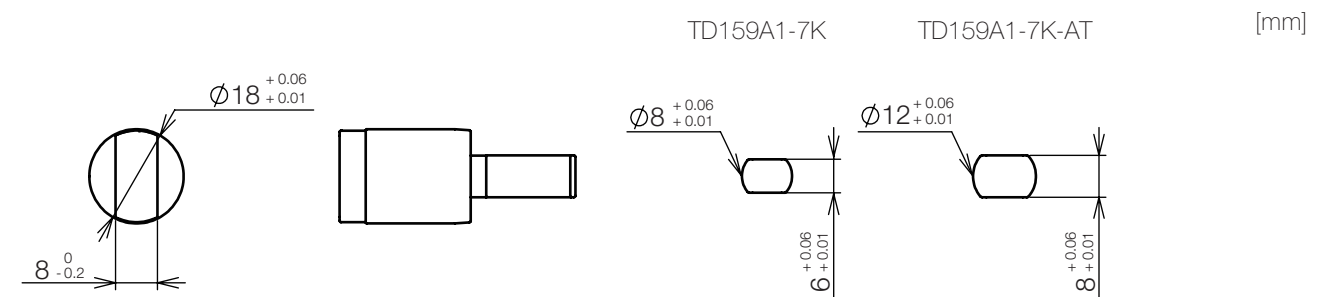
\* General tolerance: ±0.3

### Main materials

|            |                 |
|------------|-----------------|
| Housing    | Zinc alloy(ZDC) |
| Ring screw | Zinc alloy(ZDC) |
| Shaft      | Zinc alloy(ZDC) |

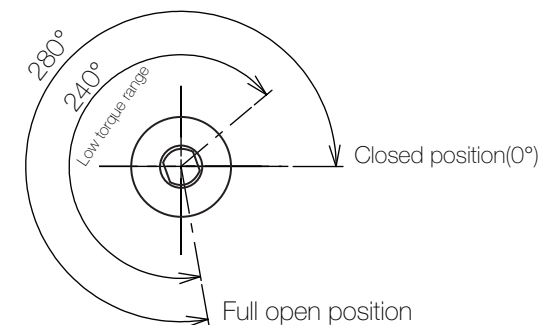
- Opening angle: 280°
- Product weight: Approx. 30 g
- Allowable radial load (P): 29.4 N

## Dimensions related to mounting

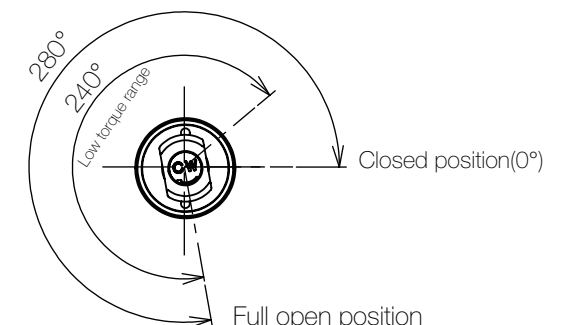


## Opening angle

TD159A



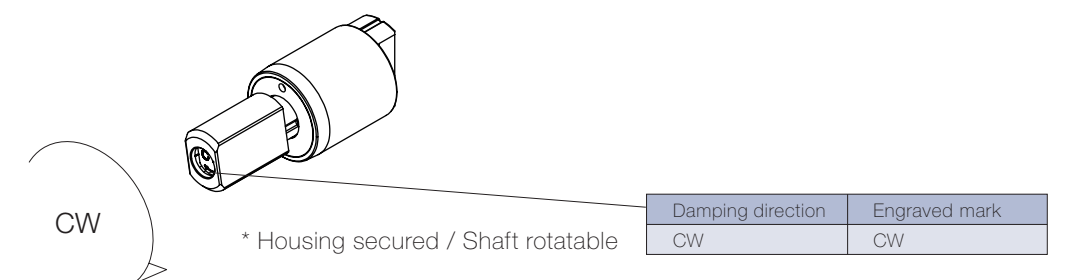
TD159A-AT



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

## Damping directions

### Rotation directions of the shaft to which torque is applied



| Damping direction | Engraved mark |
|-------------------|---------------|
| CW                | CW            |