

Product lineup



Product image

Features

- TD89 generates a torque of 15 N·m, which is the largest among our products
- The hinge type design facilitates easy mounting
- Its exterior is made of stainless steel and painted zinc alloy
- The shaft is chromate-treated to prevent rust

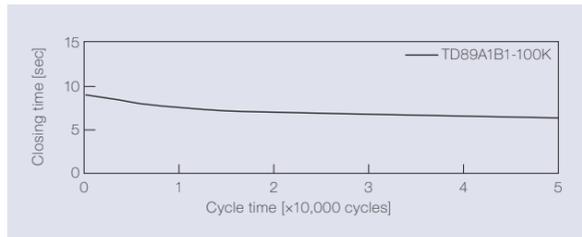
Product name	Torque [N·m] (lbf·in)	Damping direction
TD89A1B1-50K	5.0 (44.25)	
TD89A1B1-100K	10.0 (88.51)	
* TD89A1B1-150K	15.0 (132.76)	

* New products

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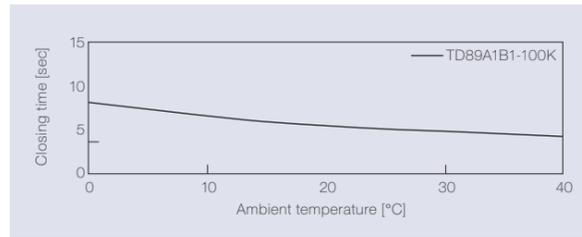
Product specifications

Durability



Torque	10.0 N·m (88.51 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

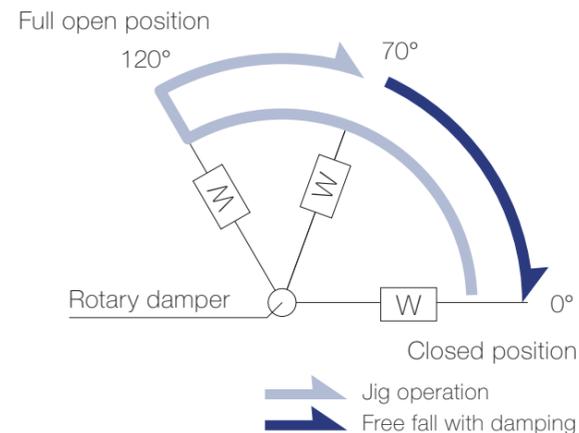
As this product uses two rotary dampers, the damper performance of each rotary damper is checked before assembling them into a hinge form. As the torque of partial rotation angle dampers is not consistent, the closing time measurement jig is used for the performance tests.

[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 [120° → 70° (Pause) → (Free fall with damping) → 0°]

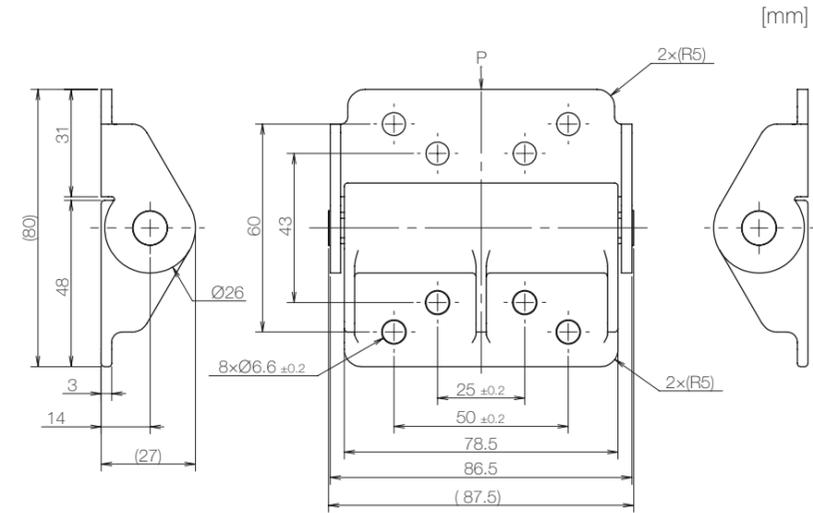
* Horizontal plane: 0°



Inspection specification before shipping

Type	Preset torque [N·m] (lbf·in)	Closing time
50K	5.0 (44.25)	3 to 12 sec
100K	10.0 (88.51)	
150K	15.0 (132.76)	

Product information



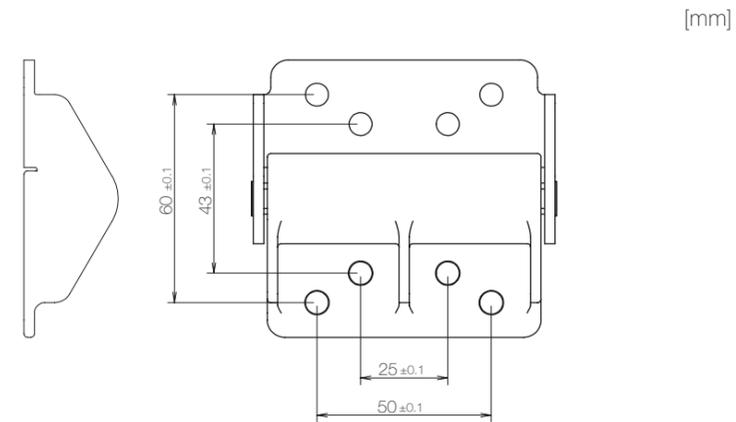
* General tolerance: ±0.5

- Opening angle: 120°
- Product weight: Approx. 365 g
- Allowable radial load (P): 58.8 N

Main materials

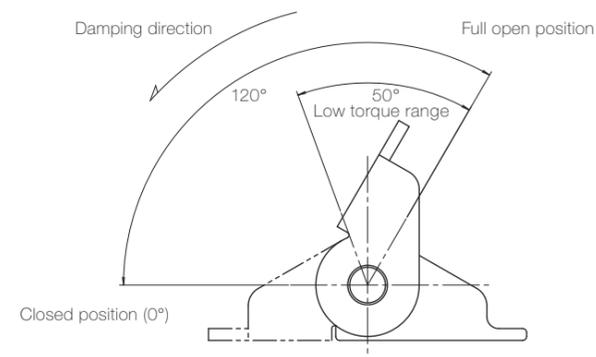
Hinge housing	Zinc alloy (ZDC)
Hinge bracket	Stainless steel (SUS)

Dimensions related to mounting



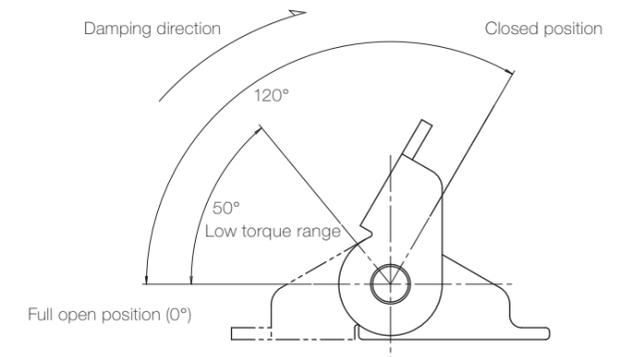
Opening angle

TD89AB



* Shaft position at the time of shipping: Closed position

TD89BA



* Shaft position at the time of shipping: Open position