

## Product lineup



Product image



TD157L

| Product name | Torque [mN·m] (lbf·in) | Damping direction | Free-running torque [mN·m] (lbf·in) |
|--------------|------------------------|-------------------|-------------------------------------|
| TD157L1-140  | 14.0 (0.12)            | CCW               | 0.5 (0.004) or less                 |
| TD157L1-210  | 21.0 (0.19)            |                   |                                     |

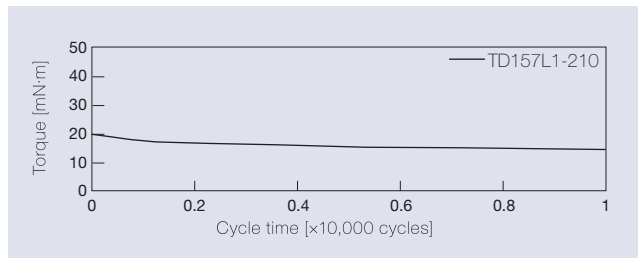
The torque of all rotary dampers is measured at a rotational speed of 20 min<sup>-1</sup>.

### Features

- Easy-to-install damper with snap-fit mounting
- High design flexibility allows installation in any orientation (horizontal, vertical, or angled)
- Tool-free installation
- Facilitates easy centering during installation
- One-way rotary damper
- Low free-running torque
- Outer mounting diameter of Ø14.9 mm (Compact and slim design)

## Product specifications

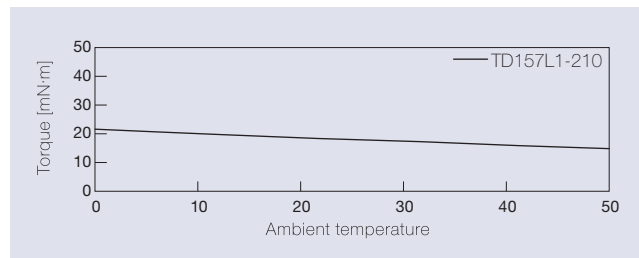
### Durability



Measurement of torque at a rotation speed of 20 min<sup>-1</sup>.

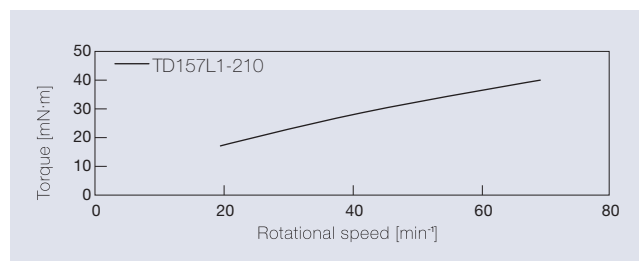
| Test method             | CCW & CW rotation test                                          |
|-------------------------|-----------------------------------------------------------------|
| Operation mode (1cycle) | CCW/12 revolution → (1s stop)<br>→ CW/12 revolution → (1s stop) |
| Rotation speed          | 500 min <sup>-1</sup>                                           |
| Durability              | 10,000 cycles                                                   |

### Temperature characteristics

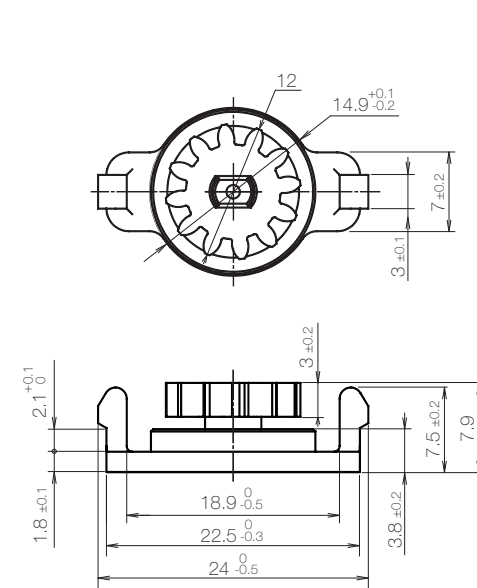


The torque measured at a rotational speed of 20 min<sup>-1</sup> at the specified ambient temperature is shown below.

### Speed characteristics



## Product information



- \* General tolerance: ±0.3
- \* Product weight: Approx. 1.5 g

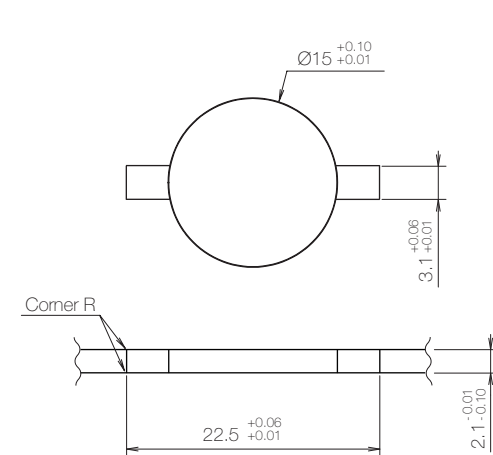
### Gear specifications

| Type                                  | Standard spur gear            |
|---------------------------------------|-------------------------------|
| Tooth profile                         | Involute and full depth tooth |
| Module                                | 0.8                           |
| Pressure angle                        | 20°                           |
| Number of teeth                       | 13                            |
| P.C.D[mm]                             | Ø 10.4                        |
| Addendum modification                 | –                             |
| Base tangent length / Number of teeth | 3.68/2                        |

### Main materials

| Housing | Plastic (POM)         |
|---------|-----------------------|
| Shaft   | Plastic (POM)         |
| Gear    | Plastic (POM)         |
| Cover   | Stainless steel (SUS) |

## Dimensions related to mounting

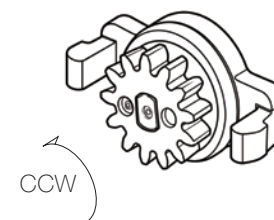


### Recommended Corner R Shapes

- Insertion side: Apply an R-chamfer
- Locking side: Small R recommended (R0.2)

## Damping directions

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



\* Housing fixed / Shaft (Gear) rotates

| Damping direction | Printed mark |
|-------------------|--------------|
| CCW               | L            |