

## Product lineup



### Features

- Highest torque among our continuous rotation dampers
- Outer mounting diameter of  $\varnothing 31$  mm
- Facilitates easy centering during mounting
- A wide variety of torques
- Best-selling continuous rotation

Product name	Torque [N·m] (lbf·in)	Damping direction	Cap color
TD58R1-3K	0.3 ± 0.06 (2.66 ± 0.53)	CW	Dark gray
TD58R1-5K	0.5 ± 0.10 (4.43 ± 0.89)		
TD58R1-8K	0.8 ± 0.16 (7.08 ± 1.42)		
TD58R1-16K	1.6 ± 0.32 (14.16 ± 2.83)		

Product name	Torque [N·m] (lbf·in)	Damping direction	Cap color
TD58L1-3K	0.3 ± 0.06 (2.66 ± 0.53)	CCW	Gray
TD58L1-5K	0.5 ± 0.10 (4.43 ± 0.89)		
TD58L1-8K	0.8 ± 0.16 (7.08 ± 1.42)		
TD58L1-16K	1.6 ± 0.32 (14.16 ± 2.83)		

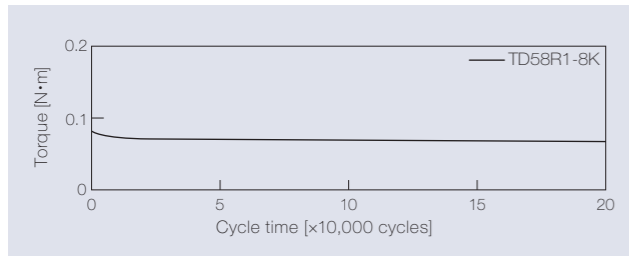
The torque of all rotary dampers is measured at a rotational speed of 30 min<sup>-1</sup>.

The products without gear have "(G-L)" at the end of the product name.

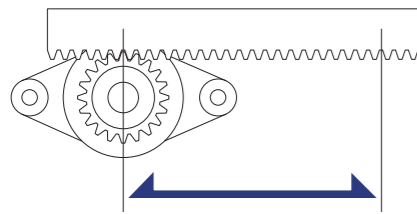
Bidirectional type products have "W" instead of "R" (or "L" ) in their names.

## Product specifications

### Durability

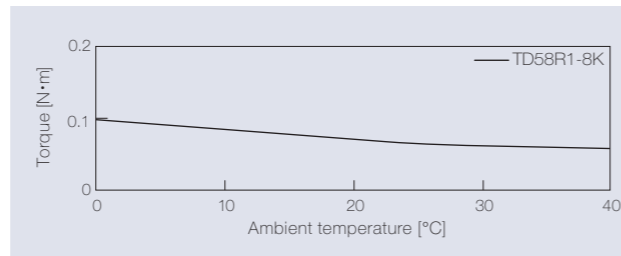


Measurement of torque at a rotation speed of 30 min<sup>-1</sup>



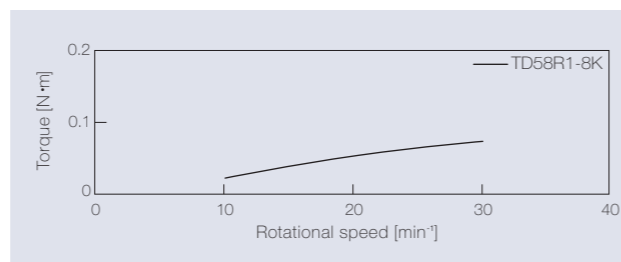
Test method	Rack-and-pinion	
Travel speed	75 mm / sec	
Pinion rotation speed	30 min <sup>-1</sup>	
Pinion	P.C.D = $\varnothing 48$ mm Module = 1.5 Number of teeth = 32	
Damper rotation frequency	One rotation in the CW and CCW directions, respectively	
Durability	Excluding TD58R1/L1-16K	200,000 cycles
	TD58R1/L1-16K	10,000 cycles

### Temperature characteristics



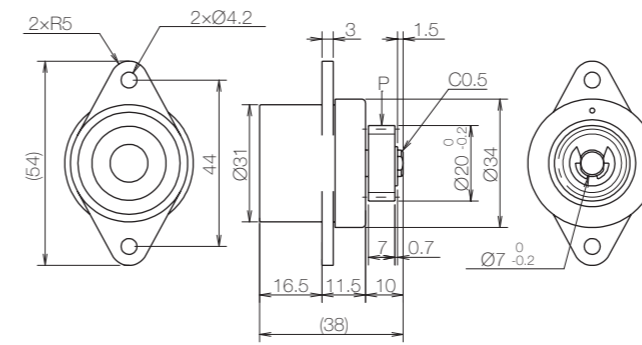
The torque achieved during rotation at 30 min<sup>-1</sup> in the designated ambient temperature is shown.

### Speed characteristics

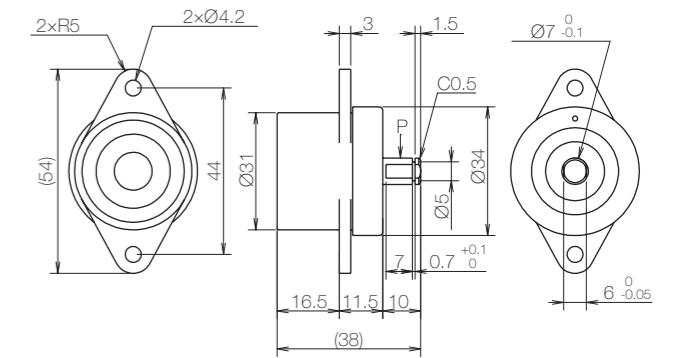


## Product information

### TD58 [mm]



### TD58(G-L) [mm]



\* General tolerance: ±0.3

### Gear specifications

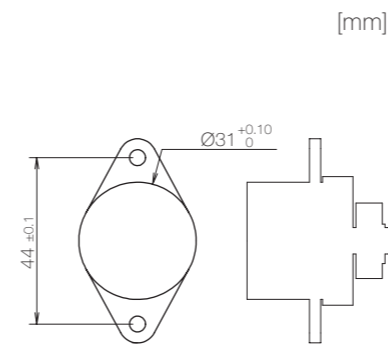
Type	Standard spur gear
Tooth profile	Involute and full depth tooth
Module	1
Pressure angle	20°
Number of teeth	18
P.C.D[mm]	$\varnothing 18$
Addendum modification	-
Base tangent length / Number	7.63 / 3

- Product weight: Approx. 42 g (With gear)
- Allowable radial load (P): 13.4 N

### Main materials

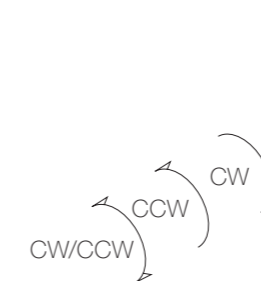
Housing	Plastic (POM)	
Cap	Plastic (POM)	
Gear	Plastic (POM)	
Shaft	CW	Hardening steel
	CCW	(Electroless nickel-plated)
	Bidirectional	Zinc alloy (ZDC)

## Dimensions related to mounting



## Damping directions

### Damping direction of the shaft



Damping direction	Printed mark
CW	R
CCW	L
Bidirectional	W

Damping direction	Cap color
CW	Dark gray
CCW	Gray
Bidirectional	Dark gray