

## FRT-G2

Small and lightweight for finest braking

### Continuous Rotation

Damping torque 0.2 Ncm to 1 Ncm

The damping direction of the ACE FRT-G2 product family with plastic body is rotating on both sides. The small rotary dampers can brake directly in the pivot point or linear through a gear and gear rack. ACE rotary dampers are maintenance-free and ready-to-install.



### Technical Data

**Construction size:**  $\varnothing$  15 mm

**Rotational speed max.:** 50 rpm

**Lifetime:** 50,000 cycles (1 cycle = 360° left-hand, 360° right-hand). Even after this time, the dampers still produce over approx. 80 % of their original damping moment. The service life may be significantly higher or lower, depending on the application.

**Operating temperature range:** 0 °C to +50 °C

**Pressure angle:** 20°

**Material:** Outer body, Shaft, Gear: Plastic

**Mounting:** In any position

**Tooth:** Involute gearing

**P.C.D.:** 7 mm

**No. of teeth:** 14

**Module:** 0.5

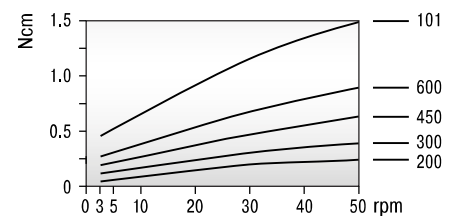
**Mounting information:** No axial or radial forces may be induced via the shaft.

**Safety instructions:** Do not use rotary dampers as supports. Provide an external guide or support.

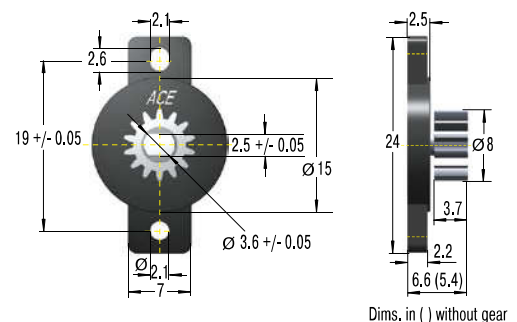
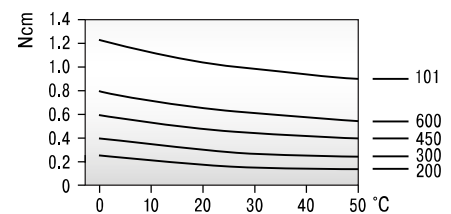
**On request:** Special designs available on request. Toothed plastic racks (modules 0.5 to 1.0) are available for the rotary dampers with pinions.

### Characteristics

At 23 °C ambient temperature



At 20 rpm rotational speed



Dims. in ( ) without gear

### Performance

| TYPES         | <sup>1</sup> Damping torque<br>Ncm | Damping direction | Gear    | Weight<br>kg |
|---------------|------------------------------------|-------------------|---------|--------------|
| FRT-G2-200    | 0.20 +/- 0.07                      | bidirectional     | without | 0.00060      |
| FRT-G2-300    | 0.30 +/- 0.08                      | bidirectional     | without | 0.00060      |
| FRT-G2-450    | 0.45 +/- 0.10                      | bidirectional     | without | 0.00060      |
| FRT-G2-600    | 0.60 +/- 0.12                      | bidirectional     | without | 0.00060      |
| FRT-G2-101    | 1.00 +/- 0.20                      | bidirectional     | without | 0.00060      |
| FRT-G2-200-G1 | 0.20 +/- 0.07                      | bidirectional     | with    | 0.00080      |
| FRT-G2-300-G1 | 0.30 +/- 0.08                      | bidirectional     | with    | 0.00080      |
| FRT-G2-450-G1 | 0.45 +/- 0.10                      | bidirectional     | with    | 0.00080      |
| FRT-G2-600-G1 | 0.60 +/- 0.12                      | bidirectional     | with    | 0.00080      |
| FRT-G2-101-G1 | 1.00 +/- 0.20                      | bidirectional     | with    | 0.00080      |

<sup>1</sup> The indicated damping torque refers to a rotational speed of 20 rpm and an ambient temperature of 23 °C.