

FRT-E2

Small and lightweight for finest braking

Continuous Rotation

Damping torque 0.1 Ncm to 0.4 Ncm

The damping direction of the smallest ACE FRT-E2 rotary dampers with plastic body is rotating on both sides. They 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: Ø 10 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.: 6 mm

No. of teeth: 10

Module: 0.6

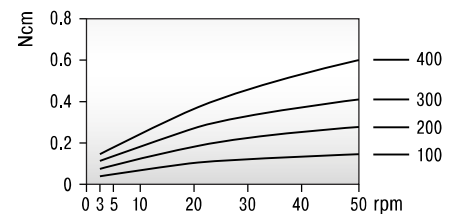
Mounting information: No axial or radial forces may be induced via the shaft.

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

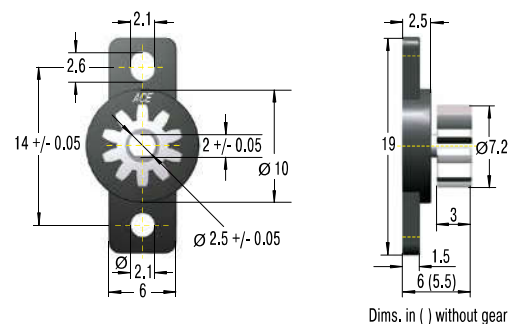
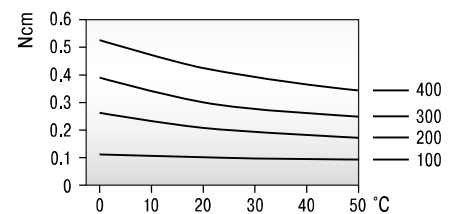
On request: Special designs available on request. Toothed plastic racks (modules 0.5 to 1.0) are available for the rotary dampers with pinions.

Characteristics

At 23 °C ambient temperature



At 20 rpm rotational speed



Dims. in () without gear

Performance

TYPES	¹ Damping torque Ncm	Damping direction	Gear	Weight kg
FRT-E2-100	0.10 +/- 0.05	bidirectional	without	0.00032
FRT-E2-200	0.20 +/- 0.07	bidirectional	without	0.00032
FRT-E2-300	0.30 +/- 0.08	bidirectional	without	0.00032
FRT-E2-400	0.40 +/- 0.10	bidirectional	without	0.00032
FRT-E2-100-G1	0.10 +/- 0.05	bidirectional	with	0.00041
FRT-E2-200-G1	0.20 +/- 0.07	bidirectional	with	0.00041
FRT-E2-300-G1	0.30 +/- 0.08	bidirectional	with	0.00041
FRT-E2-400-G1	0.40 +/- 0.10	bidirectional	with	0.00041

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