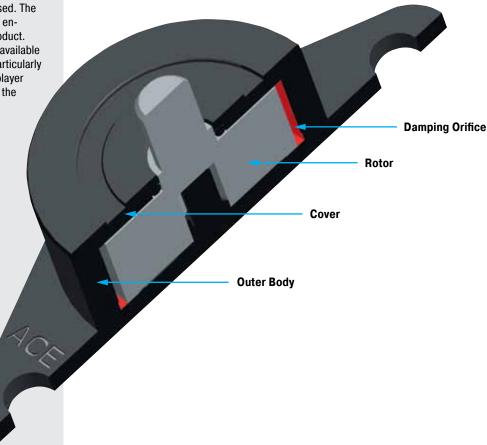
ACE rotary dampers are maintenance-free and ready to install. The damping direction of the rotary dampers with continuous rotation can be clockwise, counter clockwise, or in both directions. The outer body is either of metal or plastic. Rotary dampers with continuous rotation ensure the controlled opening and closing of small hoods, compartments and drawers. They can damp directly at the rotation point or linearly by means of a rack and pinion, in order to produce a smooth and even movement. Sensitive components remain unstressed. The harmonious gentle movement process enhances the quality and value of the product. Plastic racks (modules 0.5 to 1.0) are available for the rotary dampers with pinions. Particularly suitable for flaps, closing hoods, CD-player drawers, vehicle glove compartments, the furniture industry etc.



**Function:** In rotary dampers with continuous rotation, a fluid damping is produced by the shearing of thin silicon layers between the surfaces of a rotor and a stator. The damping mo-

ment is determined by the viscosity of the fluid and the dimensioning of the throttle gap. The specified damping moments refer to a speed of 20 rpm and an ambient temperature of 23 °C.

Note: In general, ACE rotary dampers are tested for a service life of 50 000 cycles. 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. Much higher service lives have however been achieved in practice.

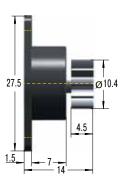


ssue 6.2011 Specifications subject to change

## FRT-C2 and FRN-C2







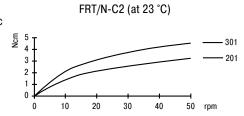
## **Technical Data**

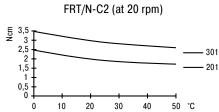
Pressure angle: 20°

Material: Polycarbonate plastic

Tooth: Involute
P.C.D.: 8.8 mm
No. of teeth: 11
Module: 1 0.8
Operating temperature

range:  $0 \,^{\circ}\text{C}$  to  $50 \,^{\circ}\text{C}$ 



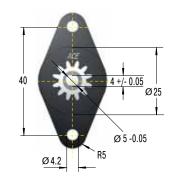


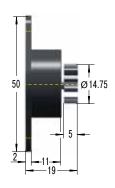
<sup>&</sup>lt;sup>1</sup> A 170 mm long flexible plastic rack and a 250 mm long rigid rack are available for use with this part see page 138.

				Nominal 20 rpm. 23 °C
Bidirectional	Right-Hand Damping	Left-Hand Damping	Gear	Damping Torque
Damping	(clockwise)	(anti-clockwise)		Ncm
FRT-C2-201	FRN-C2-R201	FRN-C2-L201	without	2 +/- 0.6
FRT-C2-201-G1	FRN-C2-R201-G1	FRN-C2-L201-G1	with	2 +/- 0.6
FRT-C2-301	FRN-C2-R301	FRN-C2-L301	without	3 +/- 0.8
FRT-C2-301-G1	FRN-C2-R301-G1	FRN-C2-L301-G1	with	3 +/- 0.8

## FRT-D2 and FRN-D2







## **Technical Data**

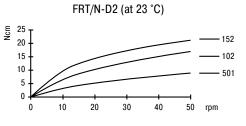
Pressure angle: 20 °

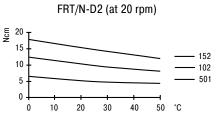
Operating temperature

Material: Polycarbonate plastic

Tooth: Involute
P.C.D.: 12 mm
No. of teeth: 12
Module: 1 1.0

range: 0 °C to 50 °C





 $<sup>^{\</sup>rm 1}$  A 250 mm and 500 mm long plastic rack are available for use with this part see page 138.

				Nominal 20 rpm. 23 °C
Bidirectional	Right-Hand Damping	Left-Hand Damping	Gear	Damping Torque
Damping	(clockwise)	(anti-clockwise)		Ncm
FRT-D2-102	FRN-D2-R102	FRN-D2-L102	without	10 +/- 2
FRT-D2-102-G1	FRN-D2-R102-G1	FRN-D2-L102-G1	with	10 +/- 2
FRT-D2-152	FRN-D2-R152	FRN-D2-L152	without	15 +/- 3
FRT-D2-152-G1	FRN-D2-R152-G1	FRN-D2-L152-G1	with	15 +/- 3
FRT-D2-501	FRN-D2-R501	FRN-D2-L501	without	5 +/- 1
FRT-D2-501-G1	FRN-D2-R501-G1	FRN-D2-L501-G1	with	5 +/- 1

130