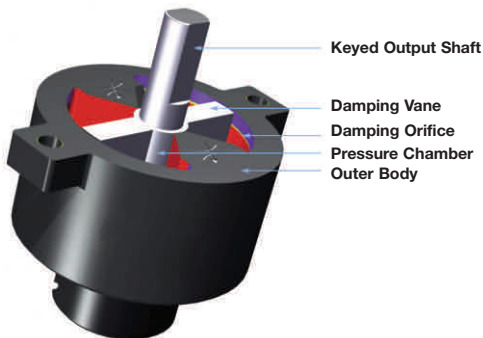


Mechanical Rotary Dampers

Introduction

Our Rotary Dampers are sealed maintenance free units. They are available with fixed or adjustable damping rates. The damping can be clockwise, anticlockwise or in both directions.

The outer body is either plastic or metal depending upon model size. The output connection can be direct onto the keyed output shaft or indirect via a plastic gear (available with 4 standard modules). Plastic racks with modules of 0.5 to 1 are also available. Applications include office machinery, lids and flaps, floppy disc drives, piano lids, CD players, auto glove-boxes, vending machines, medical equipment, furniture industry and a multitude of others.



Our Rotary Dampers guarantee the smooth controlled opening and closing of small lids, covers and flaps. They can be mounted directly on the pivot axis or can be used to provide linear damping by using a plastic gear and rack. They enable mechanisms to operate with a smooth controlled motion giving that "touch of quality" to whatever product they are used on.

Our rotary dampers are filled with a special high viscosity fluid (silicone type) and sealed for life. The fluid is passed through an orifice or groove by a rotating vane to provide damping resistance. The damping torque generated is determined by the fluid viscosity and by the orifice configuration.



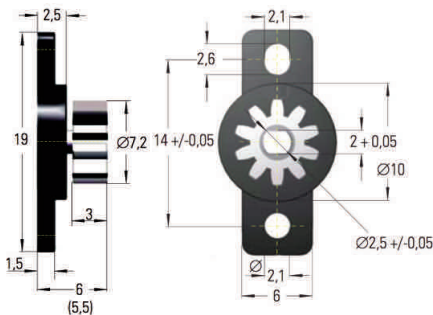
Lifetime: With a max. rotational speed of 50 revs/min and a maximum of 10 cycles/min (12 cycles/min with the FDT/FDN types) the rotary dampers still provide more than 80% of their damping torque after a run of 50000 cycles.

Mechanical Rotary Dampers

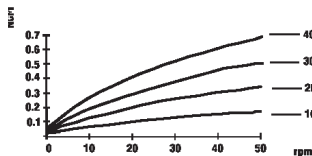
Bi - Directional

HPCFRTE2

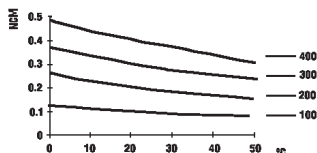
Body: Polycarbonate plastic
Gear: Polyacetal Plastic
Fluid: Silicone



FRT-E2 (at 23°C)



FRT-E2 (at 20 rpm)



Material: Polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.6
Pressure angle: 20°
Number of teeth: 10
P.C.D.: 6 mm

DISCOUNTS

	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

0.6 mod matching plastic racks available up to 1 metre.
Units are supplied with removable gear.

PART NUMBER	Damping Torque Ncm	Price Each 1-24
HPCFRTE2100G1	0.1 ± 0.05	£5.22
HPCFRTE2200G1	0.2 ± 0.07	£5.22
HPCFRTE2300G1	0.3 ± 0.08	£5.22
HPCFRTE2400G1	0.4 ± 0.10	£5.22

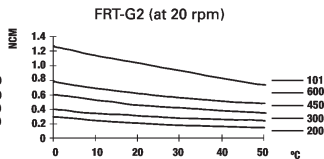
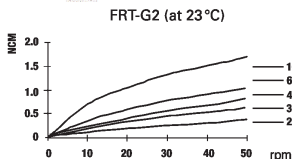
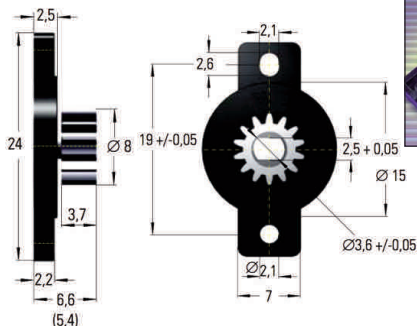
HPCFRTG2

Body: Polycarbonate plastic

Gear: Polyacetal Plastic

Fluid: Silicone

Mechanical Rotary Dampers Bi - Directional



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.5
Pressure angle: 20°
Number of teeth: 14
P.C.D.: 7 mm

DISCOUNTS

	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

0.5 mod matching plastic
racks available up to 1 metre.
Units are supplied with
removable gear.

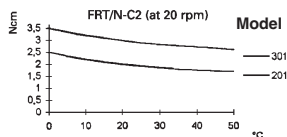
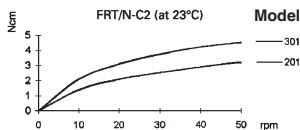
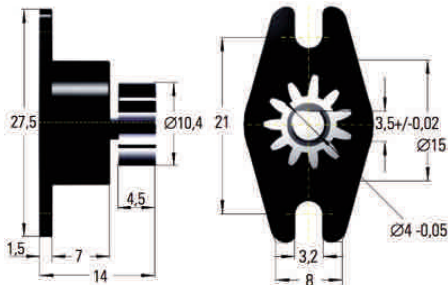
PART NUMBER	Damping Torque Ncm	Price Each 1-24
HPCFRTG2200G1	0.20 ± 0.07	£5.22
HPCFRTG2300G1	0.30 ± 0.08	£5.22
HPCFRTG2450G1	0.45 ± 0.10	£5.22
HPCFRTG2600G1	0.60 ± 0.12	£5.22
HPCFRTG2101G1	1.00 ± 0.20	£5.22

Mechanical Rotary Dampers

HPCFRTC2 & HPCFRNC2

Body: Polycarbonate plastic
Gear: Polyacetal Plastic
Fluid: Silicone

Bi - Directional & Uni - Directional



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Tooth: Involute
Module: 0.8
Pressure angle: 20°
Number of teeth: 11
P.C.D.: 8.8 mm

0.8 mod matching plastic racks available up to 1 metre. Units are supplied with removable gear.

0.8 mod flexible racks available up to 2 metre.

DISCOUNTS

	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

PART NUMBER			Damping Torque Ncm (Nom. 20 rpm. 23° C)	Price Each 1-24
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
HPCFRTC2201G1			2 ± 0.6	£12.02
HPCFRTC2301G1			3 ± 0.8	£12.02
	HPCFRNC2R201G1	HPCFRNC2L201G1	2 ± 0.6	£14.30
	HPCFRNC2R301G1	HPCFRNC2L301G1	3 ± 0.8	£14.30

HPCFRND2

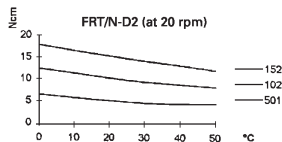
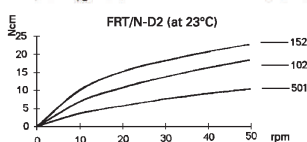
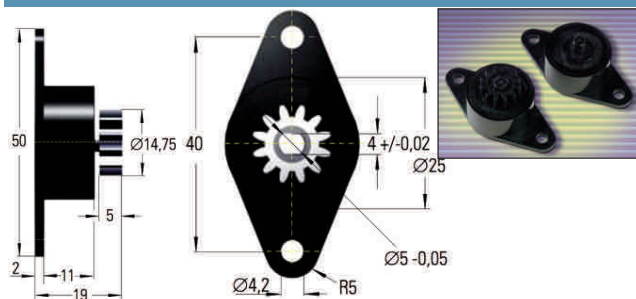
Body: Polycarbonate plastic

Gear: Polyacetal Plastic

Fluid: Silicone **Bi - Directional & Uni - Directional**

Mechanical

Rotary Dampers



Material: polycarbonate plastic Temperature range: 0° C to 50° C

Tooth: Involute
Module: 1.0
Pressure angle: 20°
Number of teeth: 12
P.C.D.: 12.75 mm

DISCOUNTS

	List Price
1 - 24	
25 - 49	-15%
50 - 99	-25%
100 - 249	-35%
250 - 499	-50%
500 +	-60%

PART NUMBER			Damping Torque Ncm (Nom. 20 rpm. 23° C)	Price Each 1-24
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
	HPCFRND2R501G1	HPCFRND2L501G1	5 ± 1	£46.62
	HPCFRND2R102G1	HPCFRND2L102G1	10 ± 2	£46.62
	HPCFRND2R152G1	HPCFRND2L152G1	15 ± 3	£46.62
HPCFRTD2501G1			5 ± 1	£40.85
HPCFRTD2102G1			10 ± 2	£40.85
HPCFRTD2152G1			15 ± 3	£40.85

1 mod matching plastic racks available up to 1 metre. Units are supplied with removable gears. 1 mod flexible racks are available up to 2 metre.

<https://amironic.co.il/>



6.45

Mechanical

Rotary Dampers

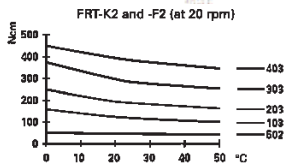
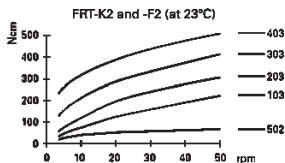
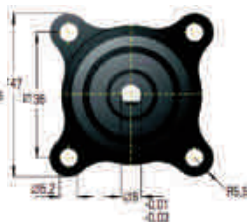
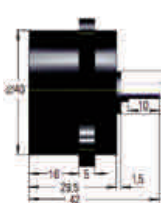
Bi - Directional & Uni - Directional

HPCFRTK2

Body: Polycarbonate plastic

Gear: Polyacetal Plastic

Fluid: Silicone



Material: polycarbonate plastic
Temperature range: 0° C to 50° C

Weight max.: 0.116 kg

DISCOUNTS

1 - 9	List Price
10 - 24	-10%
25 - 49	-15%
50 +	-30%

PART NUMBER			Damping Torque Ncm (Nom. 20 rpm. 23° C)	Price Each 1-9
Bi-directional damping	R-hand damping (clockwise)	L-hand damping (anti-clockwise)		
HPCFRTK2502			50 ± 10	£83.83
HPCFRTK2103			100 ± 20	£83.83
HPCFRTK2203			200 ± 40	£83.83
HPCFRTK2303			300 ± 80	£82.83
HPCFRTK2403			400 ± 100	£83.83
	HPCFRNK2R502	HPCFRNK2L502	50 ± 10	£92.28
	HPCFRNK2R103	HPCFRNK2L103	100 ± 20	£92.28
	HPCFRNK2R203	HPCFRNK2L203	200 ± 40	£92.28