

ENIDINE Innovations

New Rotary Rate Control Products from Enidine **Rotary Viscous Damper (RVD) for Precision Rotary Control**

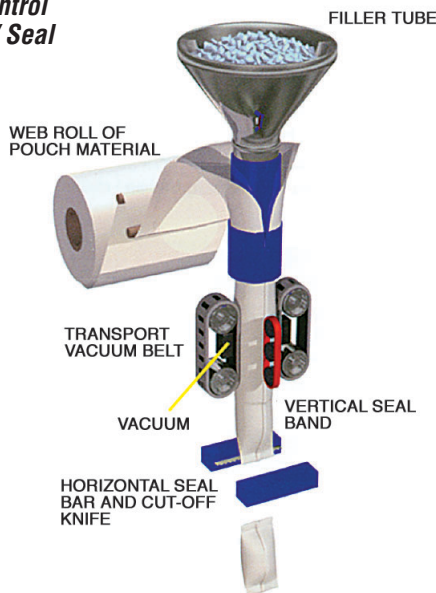


RVD expands our rotary motion control capabilities

Rotary Viscous Dampers provide smooth control in applications that require continuous or intermittent positioning, forward, reverse and fixed path motion. The RVD design combines low breakout friction with viscous damping to control bi-directional rotary motion in numerous applications.

Each RVD contains a solid, rotating element called a "rotor". This rotor is surrounded by a thin film of silicone fluid and sealed inside a stationary housing. The RVD's rotor provides resistance by shearing the silicone fluid, controlling the desired motion.

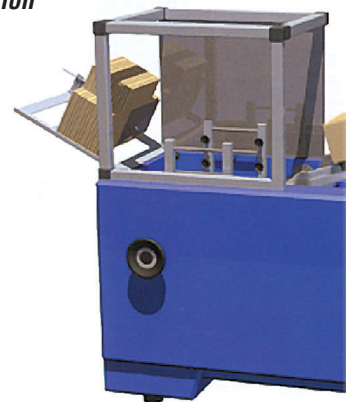
RVD Application Roll Feed Control Vertical Fill / Seal



Features and Benefits

- Safely and quietly controls rotary motion
- Low initial breakaway friction for precision torque control
- Provides consistent speed control through 360° of rotation, in both directions
- Compact, shaft-ready mounting design includes anti-rotation keyway
- Controls linear motion through simple mechanical integration
- Wide range of ambient operating conditions – indoor or outdoor, -20°F to +200°F (-30°C to +95°C)
- Customer-specified performance through 3 – 40 in-lbs. (0.4 – 4.5 Nm.) of Torque per unit
- Maintenance-free – no adjustments required

RVD Application Tilt Damper Case Erector



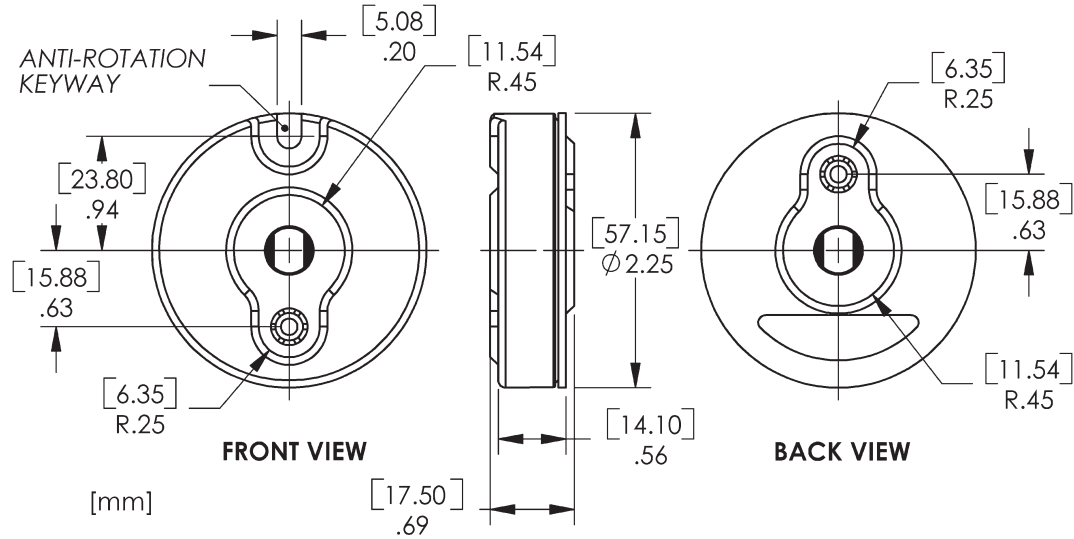
Common Applications

- OEM Office Machines – Rollers, lids and platens
- Conveying – Rollers, buckets and diverting arms
- Tilt Damping – Door hinges and access panels
- Roll Feed Control – Smooth web tension control
- Amusement industry – Safety cages and machine guards
- Pneumatic turn table speed control
- Mechanical Control – Levers, knobs, hand cranks, foot pedals along with cams, springs and linkages

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An IMC Company

Dimensional Data



Ordering Information

Specify Model Number
(example: RVD-010 __)

RVD -

001
005
010
030
060
100
300
600

“ ” Imperial
3/8" dia. with 1/4" flats

“ M ” Metric
9.2 mm dia. with 6.2 mm flats

**Specify Required
Shaft Size**

**Specify Required
Fluid Viscosity x '000**

Performance Characteristics

Breakaway Torque Requirements:

3.0 in-lbs. (0.4 Nm.) for fluids 1K, 5K, 10K, 30K (cSt.)
4.5 in-lbs. (0.5 Nm.) for fluids 60K, 100K, 300K (cSt.)
6.0 in-lbs. (0.8 Nm.) for fluids 600K (cSt.)

Dynamic Torque: Refer to Selection Guide.
(Torque values +/- 10%)

Operating Temperature: -20°F to +200°F (-30°C to +95°C)

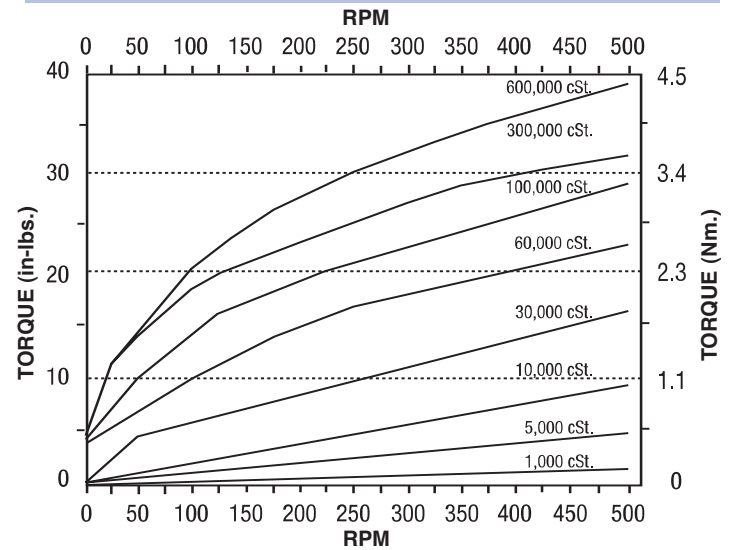
Description

Material: Housing – High impact strength Noryl® (modified phenylene oxide) resins
Rotor–Steel

Weight: 3.5 oz. (0.1 kg.)

Damping Medium: Silicone Fluid available in:
1K, 5K, 10K, 30K, 60K
100K, 300K, 600K cSt.

TORQUE BASED SELECTION GUIDE FOR VARIOUS SILICONE VISCOSITIES (cSt.)



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