



## Rotary Viscous Dampers (RVD)



### 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.

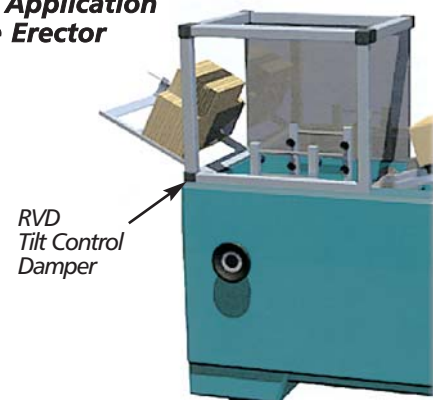
### RVD Application Vertical Fill / Seal



### 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 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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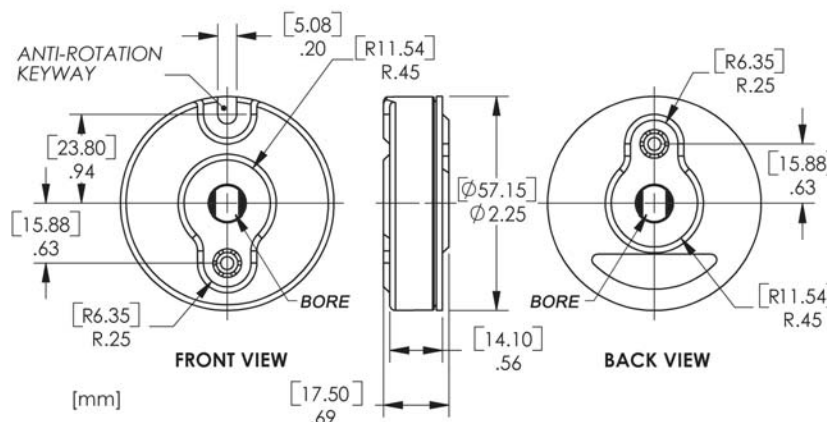
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# Specifications



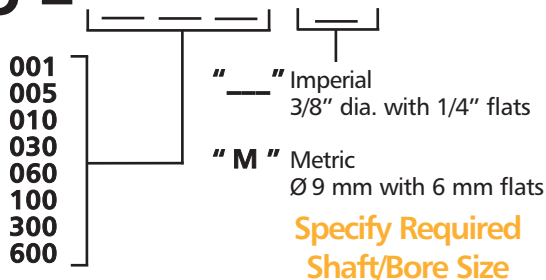
## Dimensional Data



## Ordering Information

Specify Model Number  
(example: RVD-010 \_\_)

**RVD** -



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 +/- 5%)

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

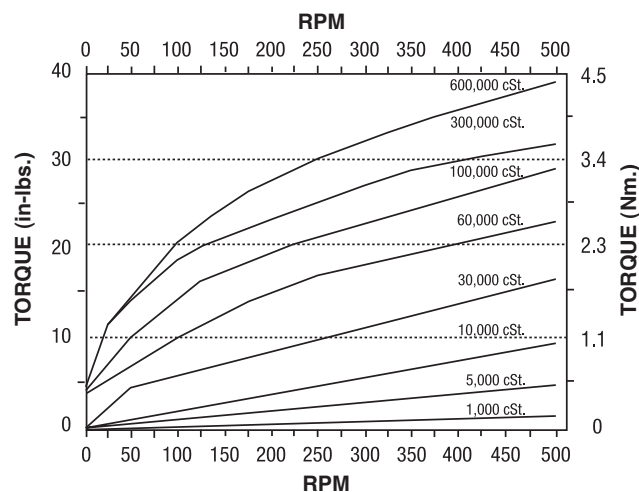
## Description

**Material:** Housing – High impact strength  
(modified phenylene oxide) resins  
**Noryl:** Rotor – Steel with rust inhibitor

**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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