



Controlling Your Comfort Room By Room

Round Damper for Ventilation

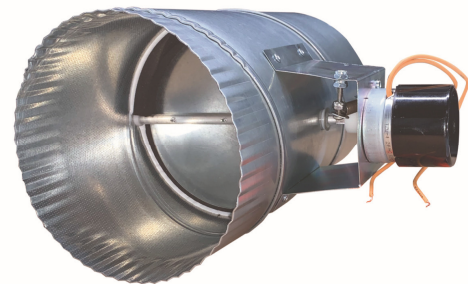
Model RDV

Single Blade, Round, Spring Return Dampers

The RDV series are galvanized steel, single blade dampers compete with a 24 Volt AC, spring return motor actuator. These dampers are shipped complete and ready for installation. The RDV can be installed in any position in any properly sized duct. All RDV dampers are rated for duct systems less than 1.0" W.C. The RDV has a gasket seal that ensures a tight shut off when the damper is closed.

Dampers are available in 4" 5", 6", 7", 8", 9", 10", 12" diameters. Dampers are ordered as RDV dd, using 2 digits for each dimension.

All RDV dampers are typically shipped as Normally Closed dampers that are powered open and spring returned closed. A 24 Volt AC, 50/60 Hz, spring return damper motor powers the RDV. The motor powers the damper open and spring returns the damper closed for fail -safe operation

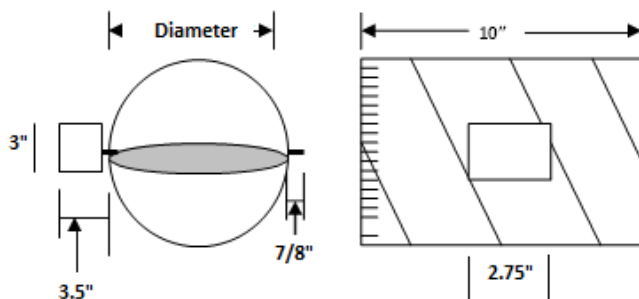


Installation

The RDV is used in -line with the duct and can be installed on a take-off or in -line at any point in the duct. It is recommended the damper be installed as close to the air handler as practical.

Place the flat collar end of the damper over the crimped end of the take -off or rigid metal duct. Insert crimped end of round damper into un- crimped end of rigid round duct and secure with sheet metal screws. When using flexible duct, slip duct over end of the round damper and secure with duct straps (not provided).

The drawing below shows a top view of the damper in line of the duct. When mounting is recommended that the motor and blade shaft be horizontal to the ground.



All dimensions are nominal. Dampers 10" diameter and less are nominal 10" in length. Dampers 12" and over are nominal 1.5" longer than the diameter.

Damper Specifications

- Construction – 24 Ga. Galvanized Steel (4" – 8")
22 Ga. Galvanized Steel (9" – 20")
- Linkage – Direct Drive (Aluminum shaft, Delrin bushings)
- Sizes – 4", 5", 6", 7", 8", 9", 10", 12" Diameters
- Motor Voltage – 24 Volts AC, 50/60 Hz, 6.5 Watts, 7VA
- Torque – Power Start: 65in-oz, Power Finish: 45in-oz
Spring Start: 45in-oz, Spring Finish: 30in-oz
- Temperature Rating - 0°F to 150°F Operating, -20°F to 175°F Storage Humidity – 5% to 95% Non-Condensing
- Damper Timing – Nominal 5 Sec. Powered, 2 Sec. Spring Return Connection: 4" Wire Leads
- Duct Pressure – Maximum 1.0" W.C.
- Leakage - Less than 1% at Full Closed

