

Modulating Round Damper

Model PCRDM



The Modulating Round Damper, Model PCRDM, is a 24 Volt AC, power open, power closed modulating damper. The damper is constructed of 22 gauge galvanized steel formed as a rigid spiral pipe and has a circular blade, that closes tightly against a neoprene gasket seal.

The PCRDM can be used for zone control, fresh air intake, ventilation or as the motorized damper for by-pass air when controlled by the Static Pressure Switch, Model SPS or Static Pressure Control, Model SPC. It is also designed to also handle high velocity air conditioning systems up to 2”S.P.

The simple 3 wire motor has two light emitting diodes (LEDs) to indicate the damper position. The RED LED is lit when the damper is Closed and the Green is lit when the damper is open. The MDM also has adjustable minimum and maximum position stops inside the motor cover. This motor’s energy saving design uses end switches to break power to the motor once the motor reaches the end travel position. This lengthens the motor life and conserves energy. The MDM has been factory tested to over 500,000 cycles.

The PCRDM is available in 5”, 6”, 7”, 8”, 9”, 10”, 12”, 14”, 16”, 18” and 20” diameters.

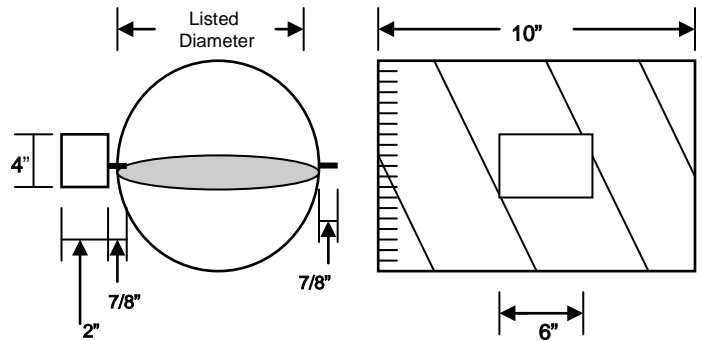


Model MDM Motor with Position LEDs.

The MDM Actuator delivers up to 34 in/lbs of torque that powers the PCRDM open and closed. This powerful motor allows the damper to handle higher static pressures and can be modulates using the SPS or SPC Static Pressure Switch or similar type control.

The MDM is a reversible motor that powers the damper both open and closed. It also has adjustable stops for minimum and maximum damper position settings.

DIMENSIONAL DRAWING – All dimensions are nominal.



Damper Specifications

- Construction – 22 Ga. Galvanized Steel
- Linkage – Direct Drive
- Sizes – 5”, 6”, 7”, 8”, 9”, 10”, 12”, 14”, 16”, 18”, 20”
- Motor Voltage – 24 Volts AC, 50/60 Hz, 0.16A
- Motor Torque – 34 in-lbs.
- Temperature Rating – - 0°F to 120°F Operating, -20°F to 140°F Storage
- Humidity – 5% to 95% Non-Condensing
- Damper Timing – Nominal 15 Sec. Powered
- Connection: Screw Terminals
- Duct Pressure – Maximum 4.0” W.C.

WIRING DIAGRAM

