



The Best Value in Zoning Today®

Automatic Round Damper with Spring Return Motor

The Round Damper is a galvanized steel single blade damper complete with a 24 Volt, Silent Spring Return motor actuator. The damper is shipped complete and ready for installation. The Round Damper can be installed in any position in any properly sized round duct. All dampers are rated for duct systems less than 1.0" W.C. The damper includes a gasket seal that ensures a tight shut off when the damper is closed.

Dampers are available in diameters of 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18" and 20". Dampers are ordered as 1190xx for Power Close / Spring Return or 1290xx for Power Open / Spring Return. **xx** denotes damper diameter in inches: 06, 08, 10, etc.

The Round Damper can easily be field converted to switch from Power Open to Power Close or Power Close to Power Open. To convert the damper, loosen the set-screw holding the motor to the damper shaft and remove the motor. Next, change the hole grommet with the hole plug on the opposite side of the damper, reverse the blade position from closed to open or open to closed and re-attach the motor on the opposite side of the damper blade shaft. Finally, tighten the set screw. (Make sure the blade is in fully Open or Closed position).

Motor

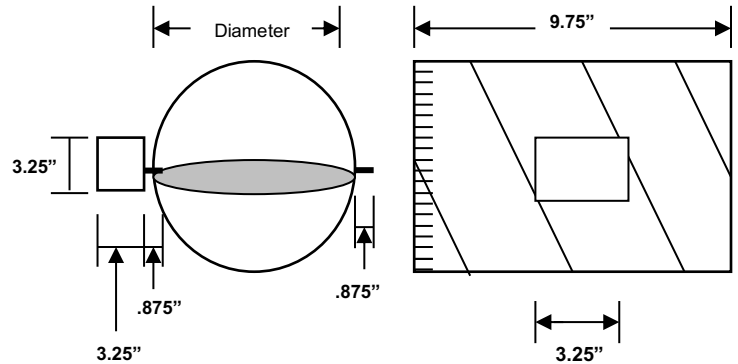
A 24 Volt AC, 50/60 Hz, Silent Spring Return damper motor powers the damper. The motor powers the damper open or closed and Silent Spring Returns the damper to its default position for fail-safe operation. Providing power to the damper drives the damper open or closed. Removing power from the motor allows the motor to spring back to the default position.

The 24 Volt, hysteresis, synchronous motor has been tested to over 250,000 cycles to provide long life. Even replacing the motor is a simple process by loosening the setscrew, holding the motor onto the damper.

The damper motor also has a simple adjustment for setting the damper to a minimum position. A minimum position allows for excess by-pass air. To set a minimum position, loosen the setscrew, align the setscrew to the minimum position label and re-tighten.



DIMENSIONAL DRAWING



All dimensions are nominal. Dampers 10" diameter and less are 9.75" in length. Dampers 12" and over are .25" shorter in length than the diameter.

Damper Specifications

Construction – 24 Ga. Galvanized Steel (4"-8")
22 Ga. Galvanized Steel (9"-20")

Linkage – Direct Drive

Sizes – 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20" Diameters

Motor Voltage – 24 Volts AC, 50/60 Hz, 6.5 Watts, 7VA

Torque – Power Start/Finish: 70 to 40 in-oz;
Spring Start to Finish: 60 to 30 in-oz

Temp Rating – 0°F to 150°F Operating, -20°F to 175°F Storage

Humidity – 5% to 95% Non-Condensing

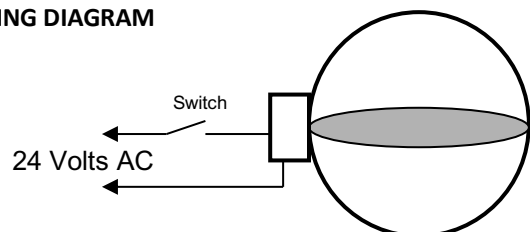
Damper Timing – Nominal 30 Sec. Powered, 20 Sec. Spring Return

Connection – Two 7" Wire Leads (exit grommet)

Static Pressure – Maximum 1" W.C.

Leakage – Less than 1% at Full Closed

WIRING DIAGRAM



Minimum Position Adjustment

The minimum position screw can also be used to determine the damper position, however it is NOT aligned to the damper blade, as it is with rectangular dampers. When it is perpendicular to the damper body, the damper is OPEN. When the setscrew is parallel to the damper body and resting against the motor's anti-rotation post, the damper is closed to the set minimum position.