

Round Manual Balancing Damper

Application and Design

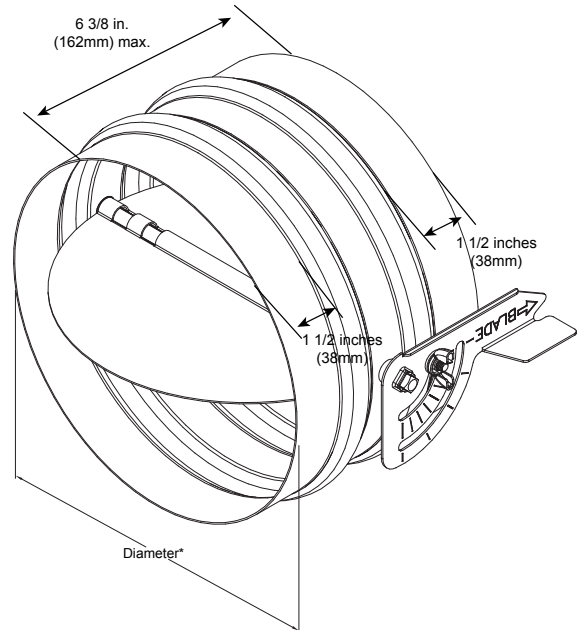
Model MBDR-50 is a round manual balancing damper designed to regulate flow of air in a HVAC system. They are not intended to be used in applications as a positive shut off or for automatic control.

Ratings

Pressure: 1.0 in. wg (.25 kPa) - pressure differential
 Velocity: 2000 fpm (10.2m/s)
 Temperature: 180°F (82°C)

| Construction | Standard |
|-----------------|--|
| Frame Material | Galvanized Steel |
| Frame Thickness | 20 ga. (1mm) |
| Blade Material | Galvanized steel |
| Axle Bearings | Synthetic (acetal) sleeve |
| Axle Material | Plated Steel |
| Operator | 3/8 in. (10mm) sq. Locking manual quadrant |

| Diameter | Minimum | Maximum |
|----------|-------------|--------------|
| in. (mm) | 4 in. (102) | 24 in. (610) |



*D dimension furnished approximately 1/8 in. (3mm) undersize.

Options (at additional cost)

- 1 1/2 in. (38mm) standoff bracket (with extended pin) to accommodate for the thickness of external duct insulation
- 2 in. (51mm) standoff bracket

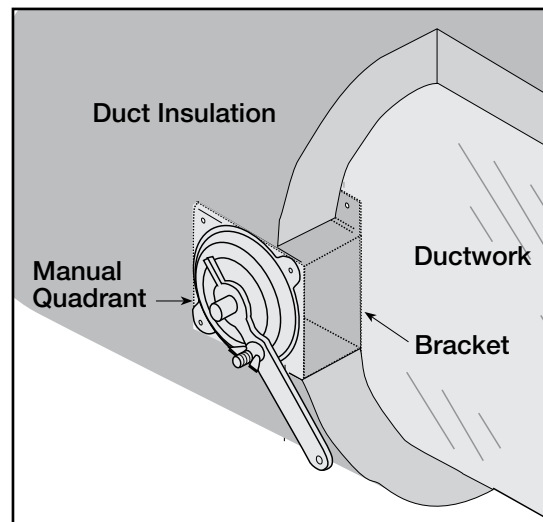
Specifications

Round manual balancing dampers meeting the following specifications shall be furnished and installed where shown on plans and/or as described in schedules.

Dampers shall consist of: a 20 ga. (1mm) galvanized steel frame with 6 3/8 in. (162mm) depth; blades fabricated from 20 ga. (1mm) galvanized steel; 3/8 in. (10mm) square plated steel axles, acetal bearings.

Damper manufacturer's printed application and performance data including pressure, velocity and temperature limitations shall be submitted for approval showing damper suitable for pressures to 1.0 in. wg (.25 kPa), velocities to 2000 fpm (10.2 m/s) and temperatures to 180°F (82°C). Testing and ratings to be in accordance with AMCA Standard 500-D.

Basis of design is Greenheck model MBDR-50.



NOTE: Temperatures in excess of 180°F (82°C) require special consideration.