

Application and Design

The VCDR-53 series is a low leakage round control damper intended for application in low to medium pressure and velocity systems.

Ratings

Pressure: 2.5 in. w.g. - pressure differential.

Velocity: 2000 fpm.

Leakage: 4 cfm/ft² @ 1 in. w.g.

Temperature: 180°F.

Standard Construction

Frame: Through 12" dia. - Reinforced 20 ga. galvanized steel.

Above 12" dia. - Reinforced 18 ga. galvanized steel.

Blades: 20 ga. galvanized steel.

Seals: Silicone rubber blade seals.

Axles: 1/2" dia. plated steel.

Bearings: Oil impregnated bronze.

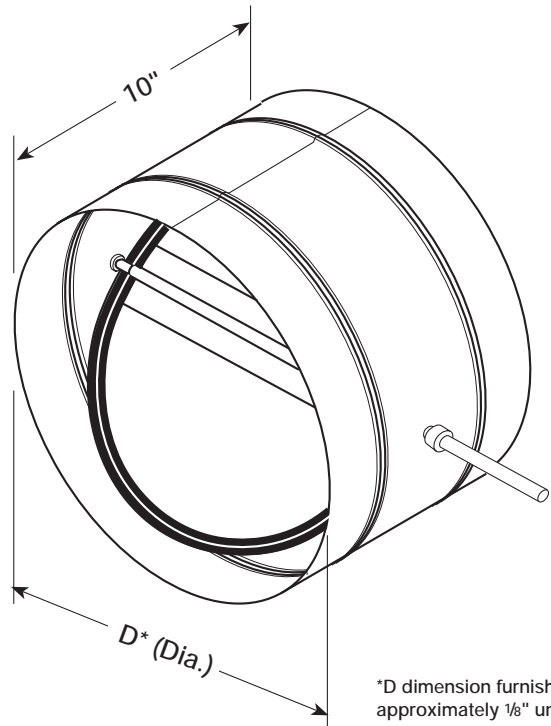
Size Limitations

Minimum Size: 5" dia.

Maximum Size: 24" dia.

Features

- Blade seals - pressure activated to produce tighter sealing. As pressure increases, sealing increases.
- Wide range of electric and pneumatic actuators available. Factory installation available.

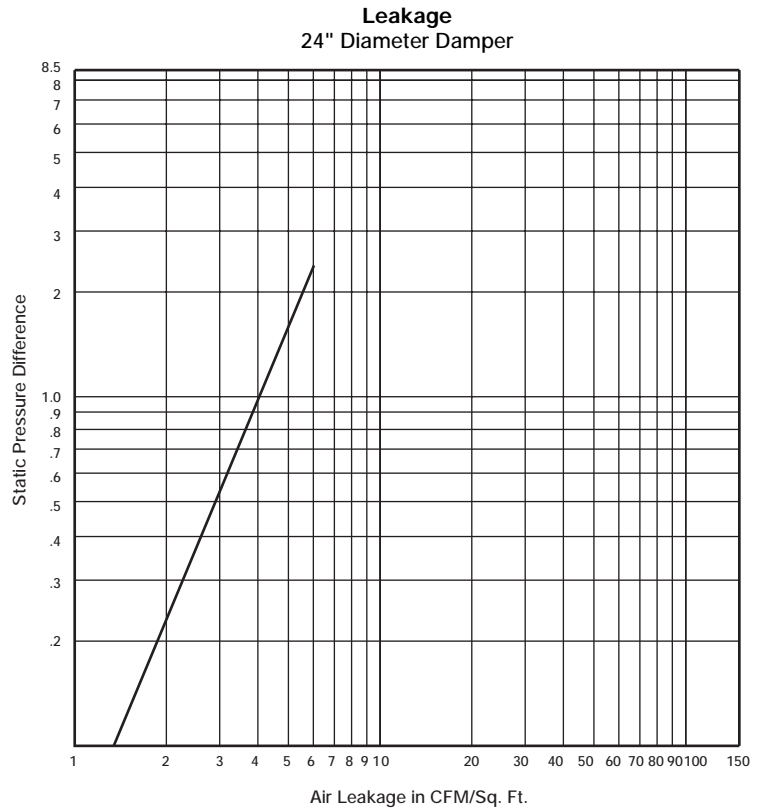


*D dimension furnished approximately 1/8" undersize.

Mark	Qty.	Diameter D	Remarks
Project	Location		
Contractor	Design Specifier		

Leakage Data

Model VCDR-53 is available with silicone blade seals. Leakage testing was conducted in accordance with AMCA Standard 500 and is expressed as cfm/ft² of damper face area. All data has been corrected to represent standard air at a density of 0.075 lb/ft³.



NOTE: Temperatures in excess of 180°F require special consideration.

Specifications

Round control 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 20-18 ga. galvanized steel frame with 10" depth; blades fabricated from 20 ga. galvanized steel; 1/2" dia. plated steel axles turning in oil impregnated bronze bearings; silicone rubber blade seals for 400°F maximum temperature. 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 2.5" w.g., velocities to 2000 fpm and temperatures to 180°F. Testing and ratings to be in accordance with AMCA Standard 500. Basis of design is Greenheck model VCDR-53.