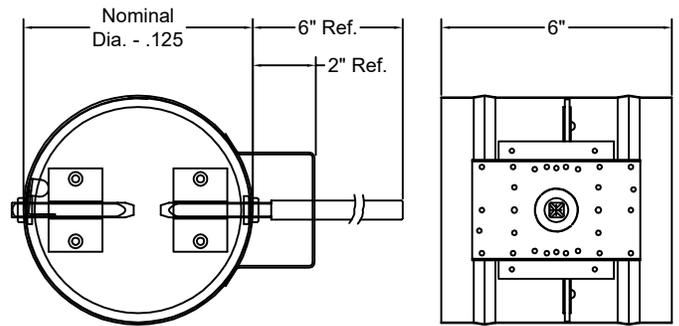


APPLICATION

Model RI round control damper is designed for low to medium pressure and velocity HVAC systems to regulate air flow. It can be easily installed into round spiral ductwork. The designed blade-to-frame Volara seal secured between two round blades creates a tight sealing 4.46 CFM per Sq. Ft. @ 6" w.g.

Standard Construction

Frame: 6" Long 20 Gauge Galvanized Steel
Blades: 20 Gauge Double Skin Galvanized Steel
Axles: $\frac{3}{8}$ " Square Plated Steel
Bearings: Bronze Oilite.
Blade Seal: Closed Cell Volara (200 Deg. F.).
2" Stand-Off Bracket:
Actuator Mtg. Brkt.: Shipped Loose (Small on units 14" Dia. and under and Long on units above 14" Dia.)



Standard Construction

SIZE

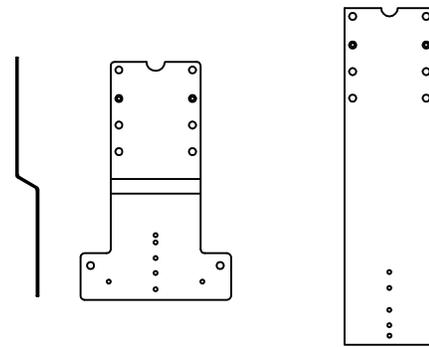
Minimum: 4" (102) Diameter
Maximum: 24" (610) Diameter

OPTIONS

Silicone Blade Seals - (400 deg. (204Deg. C))
Nylon 6/6 Bearings - Standard on Aluminum units.
Stainless Steel Bearings - (700 Deg. F. (371 Deg. C)).
Factory Mounted Actuators

VARIATIONS

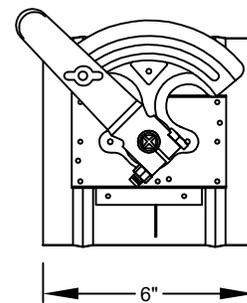
Stainless Steel Construction - Frame, Blade, Axles and Hand Quadrant.
Aluminum Construction - .063 thick aluminum frame and blade. (Axles, clamps Ect.)



Small Actuator
Mounting Bracket
Units 14" Dia. and Under

Large Actuator
Mounting Bracket
Units Above 14" Dia.

Maximum Velocity		
Diameter	FPM (M/S)	Max. Pressure Differential Inches w.g. (kpa)
4" - 8" (102 - 203)	2600 (13.2)	6" (1.49)
10" - 12" (254 - 305)	2400 (12.2)	5" (1.25)
14" - 18" (356 - 457)	2300 (11.7)	4" (1.99)
20" - 24" (508 - 610)	2300 (11.7))	3" (0.75)



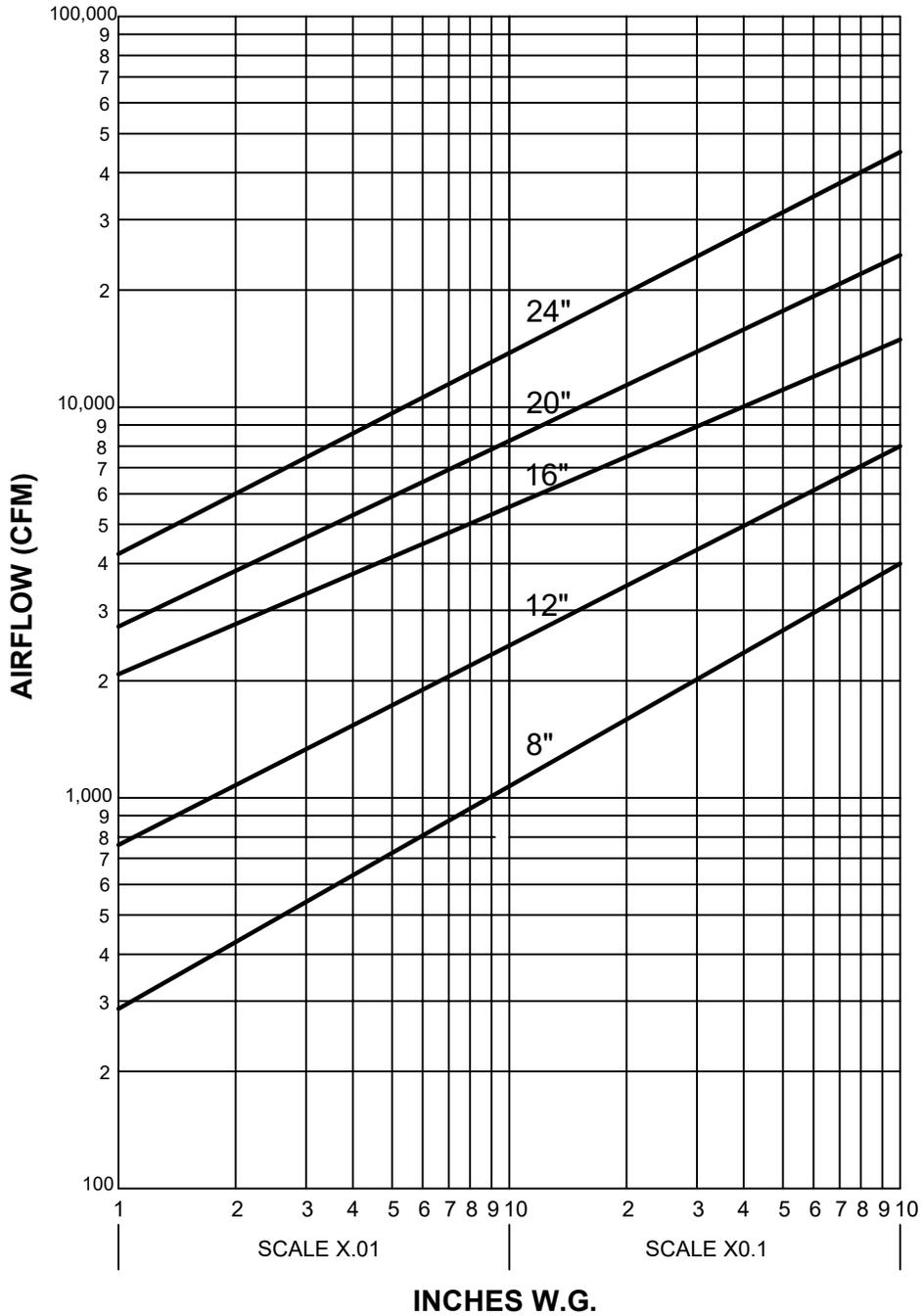
Optional Hand Quad

Notes:

- Dampers are furnished approx. 1/8" (3) undersized, unless otherwise noted.
- Dimensions shown in parentheses () indicate millimeters.

Performance Data

STATIC PRESSURE DROP



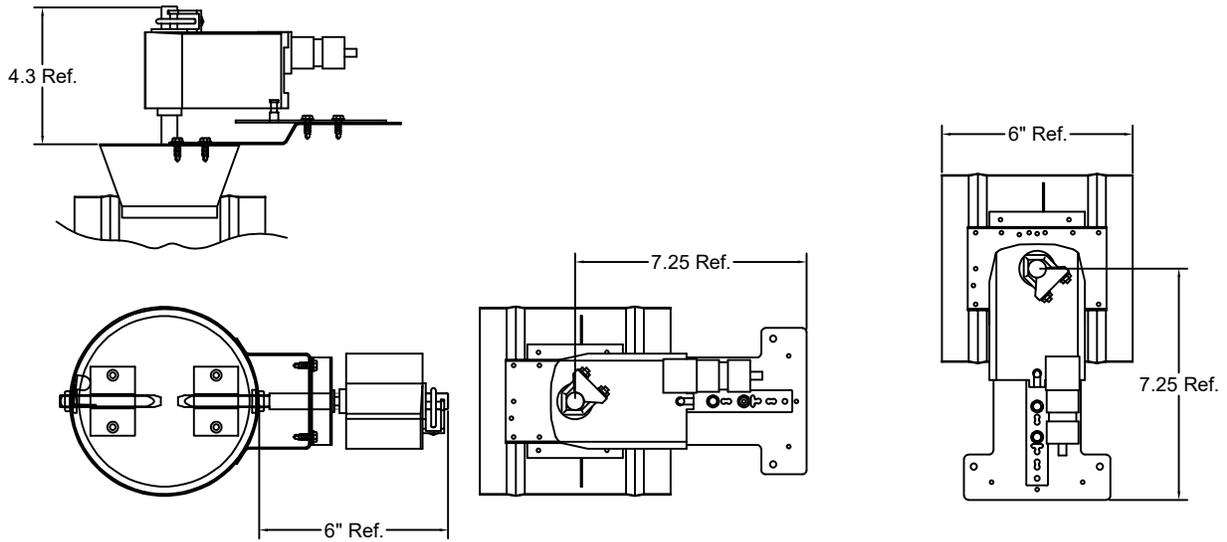
Determining Static Pressure Drop (Round)

To determine static pressure drop through an open damper, start on the left side of the damper pressure drop chart. Given the CFM of air flow through the damper, follow the CFM line to the diagonal line of the damper size required, then down to the static pressure drop of the unit.

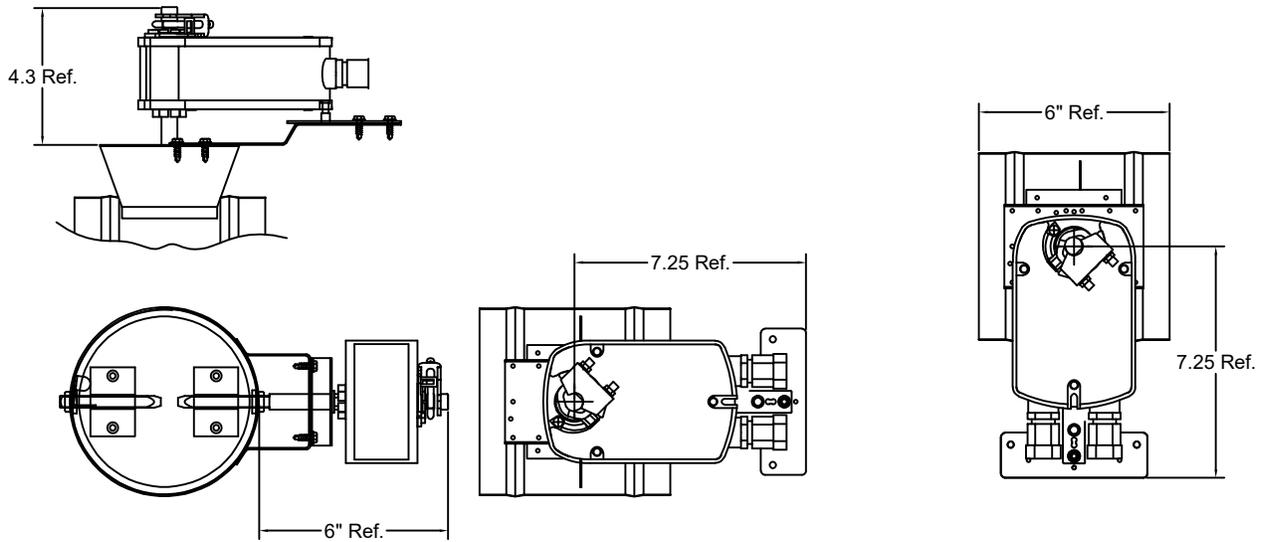
Example:

The pressure drop of an 8" (203) diameter damper with 700 cfm flow is .051 inches w.g.

Factory Actuator Mounting Details

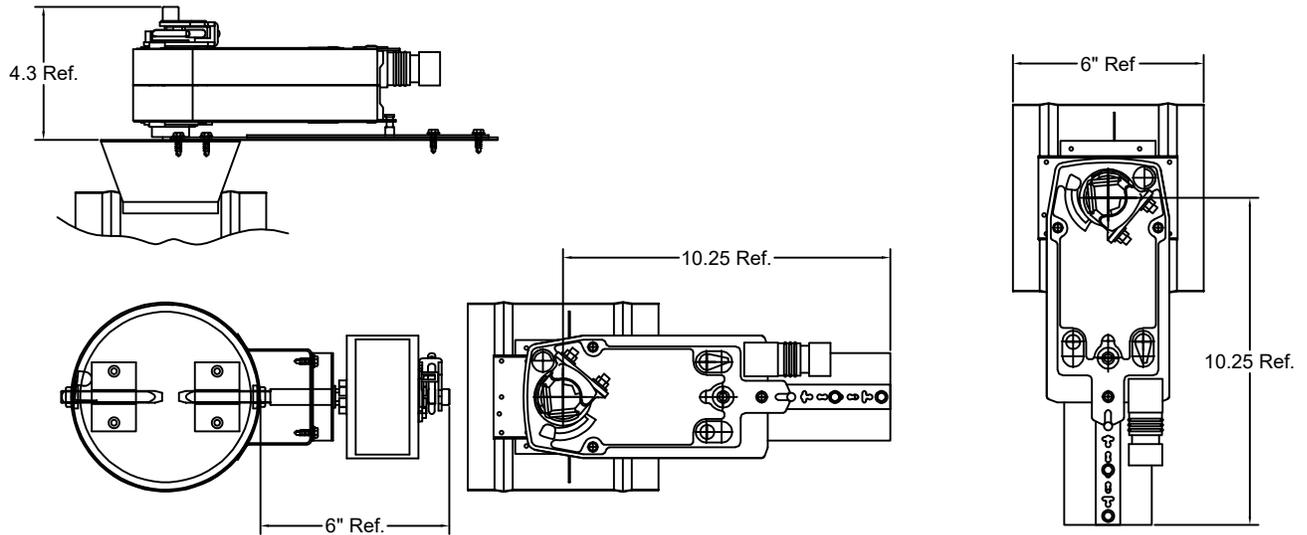


Belimo TFB Series Actuator Mounting Detail

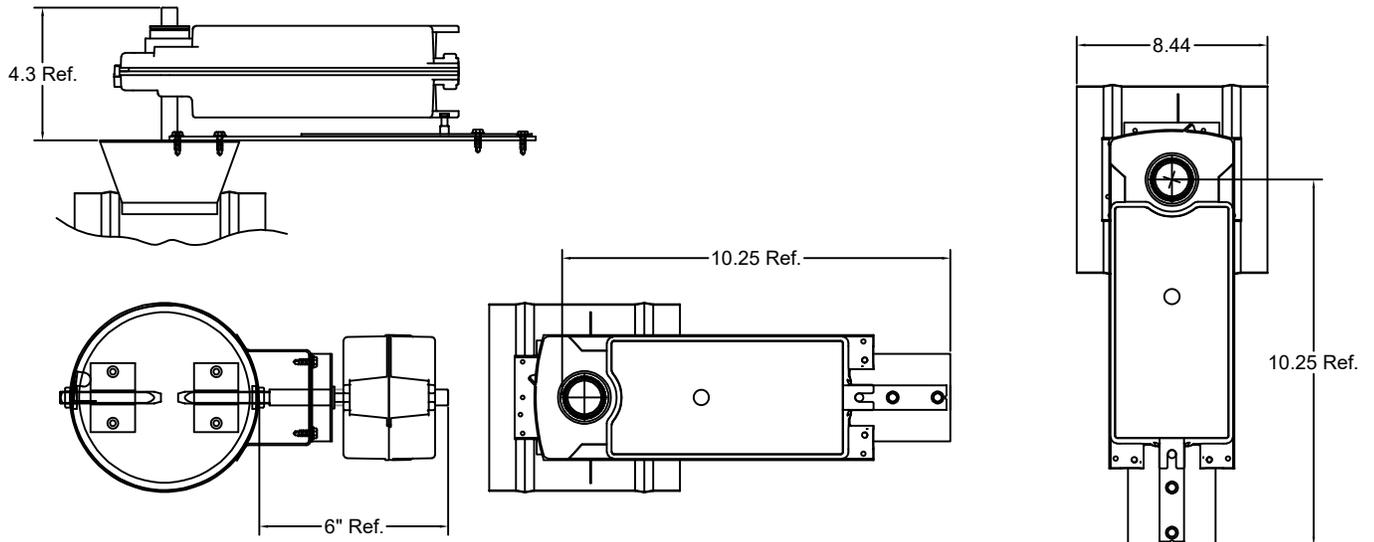


Belimo LF Series Actuator Mounting Detail

Factory Actuator Mounting Details



Belimo NFB and AFB Series Actuator Mounting Detail



SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans or in accordance with schedules, round control dampers meeting the following specifications:
 Dampers shall consist of a circular blade mounted to a square shaft for positive rotation. Blade seal to be sandwiched inbetween two blades skins (no glue on seals). Frames shall be 20 gauge galvanized steel and shall include rolled stiffener beads to allow easy sealing of spiral ductwork joints.
 Leakage through the damper in the closed position shall not exceed .4.4 cfm per ft² at 6" w.g.
 Dampers shall be in all equivalent to United Enertech Model RI.



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