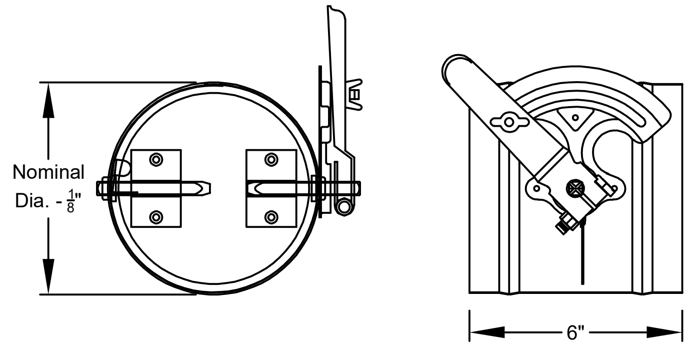
UnitedEnertech

Model RD
Round Manual Balancing Dampers

APPLICATION

Model RD is a ruggedly built round manual balancing damper with factory mounted, locking hand quadrant designed especially for manual balancing applications within round spiral ductwork. It is easy to install and seal, becomes part of the ductwork and offers an economical alternative to a "shop built" damper.



Standard Construction

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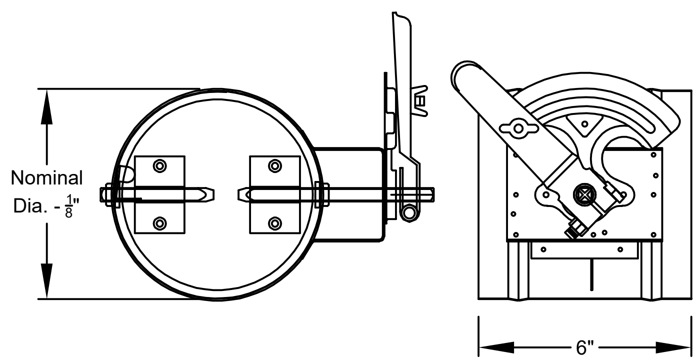
Frame: 6" Long 20 Gauge Galvanized Steel
Blades: 20 Gauge Galvanized Steel
Axles: $\frac{3}{8}$" Square Plated Steel
Bearings: Molded Synthetic Nylon 6/6.
Hand Quadrant: $\frac{3}{8}$" Square

SIZE

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



2" Stand-Off

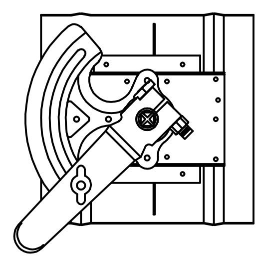
OPTIONS

Stand-Off Bracket - 2" (51)

VARIATIONS

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

Maximum Velocity		
Diameter	**FPM (M/S)**	**Max. Pressure Differential Inches w.g. (kpa)**
4" - 8" (102 - 203)	2600 (13.2)	3" (0.75)
10" - 12" (254 - 305)	2400 (12.2)	2.5" (.062)
14" - 18" (356 - 457)	2300 (11.7)	2" (0.5)
20" - 24" (508 - 610)	3200 (11.7))	1.5" (0.37)



Optional Hand Quad
Position with Stand-Off

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

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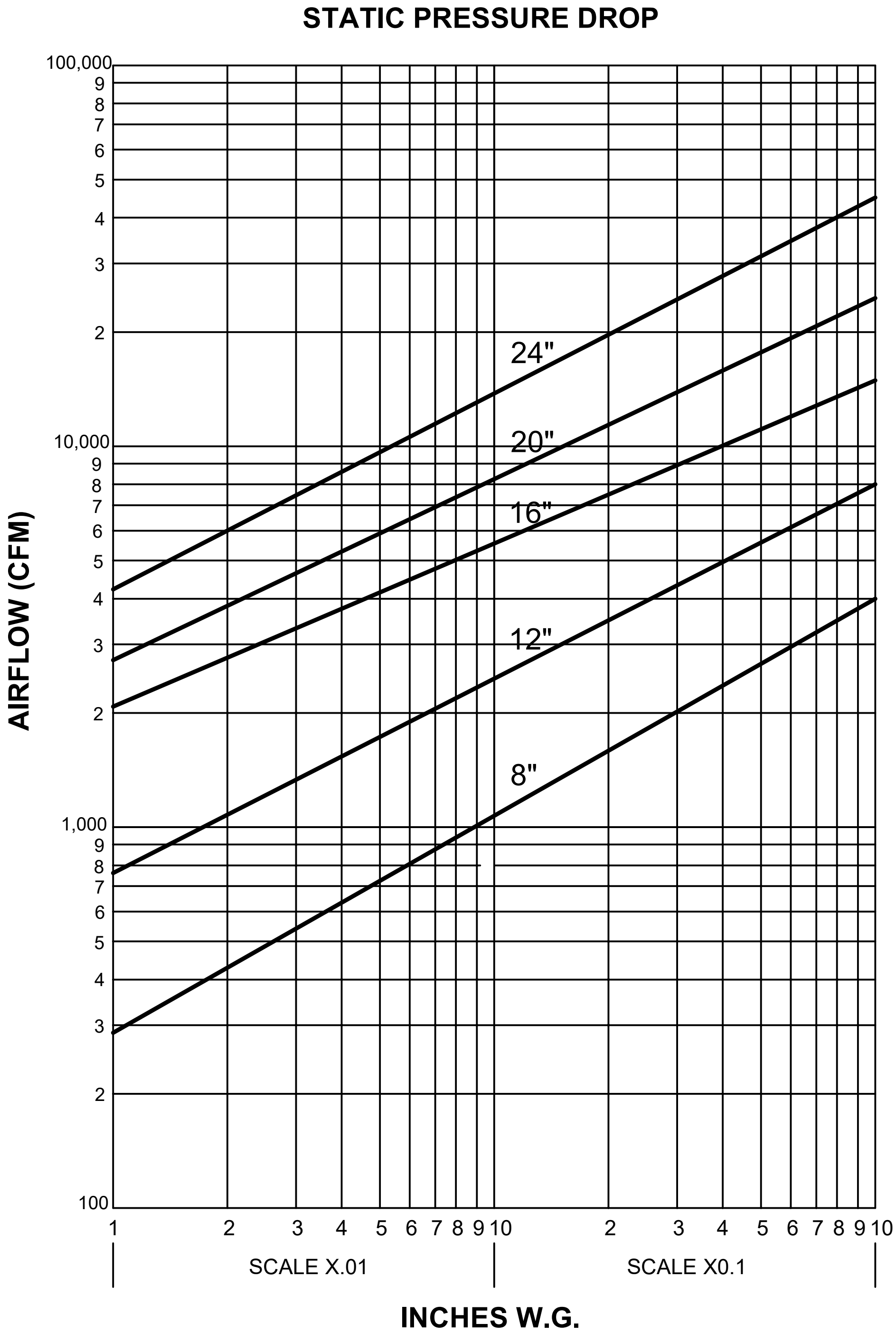
RD-Round Damper with Hand Quadrant				
DRAWN BY: KSM	DATE: June 2025	REV. DATE:	REV. NO.	DWG. NO. PD-021

Performance Data



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) diamenter damper with 700 cfm flow is .051 inches w.g.

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