



**CONTROL DAMPER**

**APPLICATION AND DESIGN:**

The Model RI was developed in response to automation controls companies need for a damper with the flexibility to mount various manufacturers actuators and controls.

**SHAFT:**

- 1/2" round solid aluminum (thru 30")
- 3/4" round solid steel (32" thru 46")

**BEARING:**

Bronze oilite (175°)

**BLADE SEALS:**

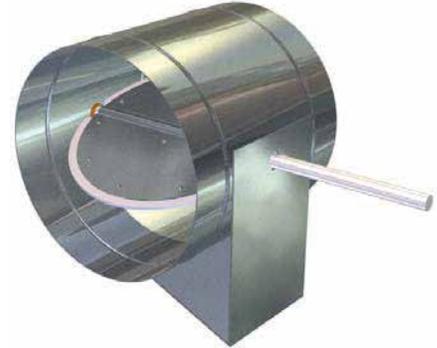
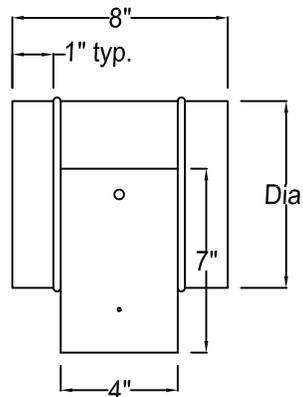
Crosslinked closed cell ( 200° F)

**MOUNTING PLATE:**

20 ga. galvanized steel

**OPTIONS:**

- Stainless steel body, blade, shaft and quadrant
  - Silicone Blade Seal (400° F)
  - All aluminum construction w/ steel plated quadrant
  - Nylon 6/6 bushing (for aluminum construction)
  - Extended quadrant 2"
  - Factory furnished and mounted actuator
  - Motor and/or control enclosure
  - Stainless steel bearings (700° F)
  - Silica Seals (800° F)
- Heavier Gauges:
- 16 ga
  - 14 ga



**MODEL RI**

approx. 1/8" o.d. undersized

MAXIMUM VELOCITY		
DIAMETER	FPM	MAX. PRESSURE DIFFERENTIAL
4 - 8"	2600	6"
10 - 12"	2400	5"
14 - 18"	2300	4"
20 - 24"	2300	3"
26 - 30"	2200	2-1/2"
32 - 46"	2000	1-3/4"

DIAMETER	LENGTH	BODY & BLADE
4 - 10"	8"	24 ga.
12 - 18"	8"	20 ga.
20 - 30"	8"	20 ga.
32 - 46"	8"	18 ga.

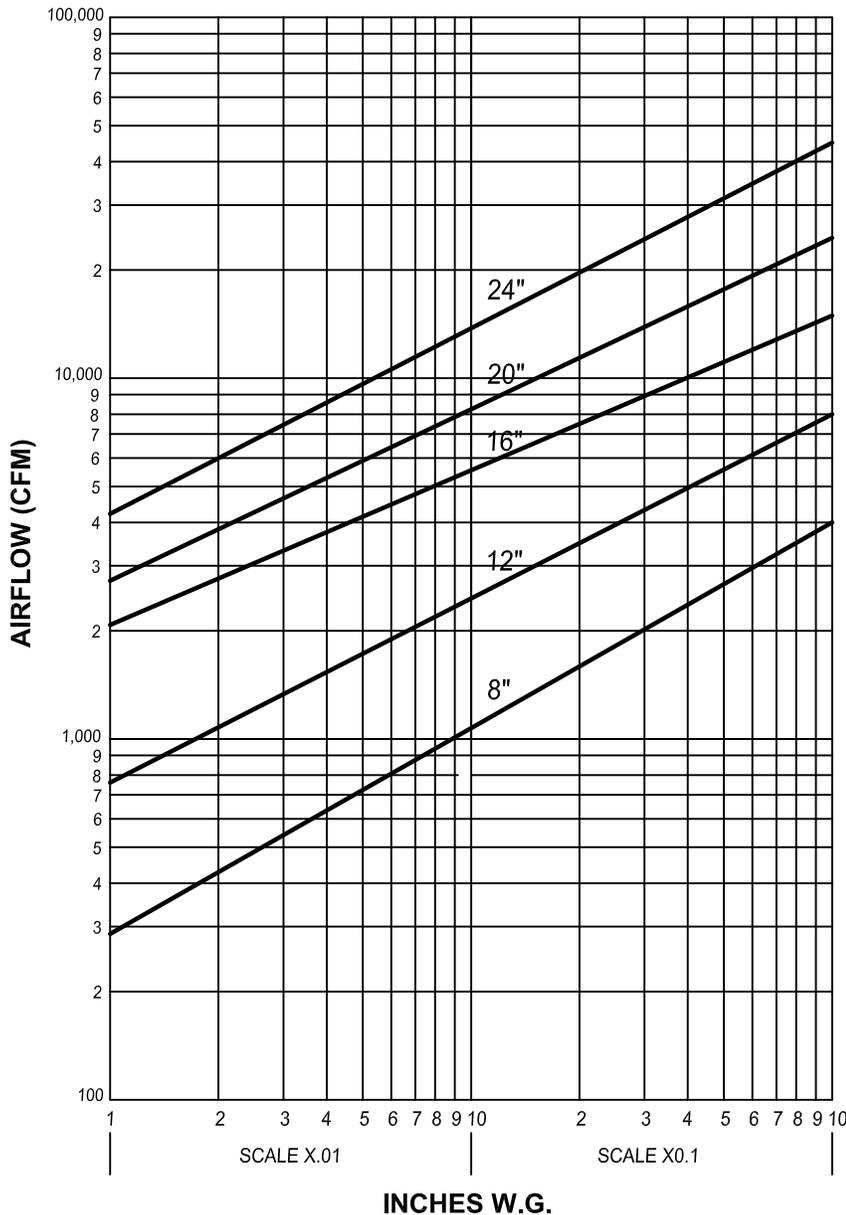
Job Name: <hr/> Location: <hr/> Architect: <hr/> Engineer: <hr/> Contractor:	<div style="display: flex; align-items: center;"> <div> <p><b>BADR and ASFOUR</b> Engineering &amp; Metal Industries</p> <p>BADR AND ASFOUR For Engineering and metal industries. Free zone, Matahra, New Menya, Egypt Email address: sales.support@badr-asfour.com W: www.cvshvac.com   badr-asfour.com</p> </div> </div> <hr/> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">MODEL RI</p> <table border="1" style="width: 100%; font-size: 0.8em;"> <tr> <td>Drawn By: DND</td> <td>Approved BY: SB</td> <td>REV. No.: 00</td> <td>Date: February 2021</td> <td>Cat ID: RI</td> <td>Page: 1/2</td> </tr> </table>	Drawn By: DND	Approved BY: SB	REV. No.: 00	Date: February 2021	Cat ID: RI	Page: 1/2
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## Performance Data

### ROUND DAMPERS

#### 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" damper with 700 CFM flow is .051 inches w.g.

Job Name:

Location:

Architect:

Engineer:

Contractor:



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