

RZ-2000 Round Zone Damper

Description

Johnson Controls provides top-quality round dampers to control air flow in Heating, Ventilating, and Air Conditioning (HVAC) systems that fit standard round ducts.

The round zone series damper comes without seals for applications where leakage is acceptable, such as variable volume temperature (VVT) zoning systems. The damper is easily installed in round ducts and optionally includes an incremental or proportional actuator.

Johnson Controls® round dampers have no components that require routine scheduled maintenance.

Applications

Refer to standard control damper for type selected.

To Order

Specify the code number from the selection chart.

Refer to the *RZ-2000 Series Round Zone Damper Product Bulletin (LIT-12012074)* for important product information.

Features

- seals to reduce leakage
- formed shroud that allows easy insertion into duct work
- one-piece construction that increases rigidity and strength
- optional factory-installed actuators that reduce installation time
- 3-working-day shipping standard; next-day, fast track shipping available
- 5-year warranty



RZ-2000 Series Round Damper

Performance Specifications:

Round Zone Damper		
Temperature Limits	-20 to 200°F (-29 to 93°C)	
Approximate Weight	Size, in. (mm)	lb (kg)
	4 (102)	1.1 (0.5)
	8 (204)	2.9 (1.32)
	12 (305)	8.0 (3.63)
	16 (406)	14.0 (6.35)

Construction

Part	Construction
Shroud	20-gauge galvanized sheet steel
Blade	4 to 8 in. (102 to 204 mm) diameter; 16-gauge galvanized steel, single-piece 9 to 22 in. (229 to 406 mm) diameter; 12-gauge galvanized steel, single-piece
Shaft	4 to 8 in. diameter; 5/16 in. (8 mm) diameter steel or galvanized wire (1/2 in. adapter provided when ordered without actuator) 9 to 22 in. diameter; 1/2 in. (13 mm) diameter aluminum
Washer	Nylon
Seal	Closed-cell polyurethane foam tape

Submittal Specifications

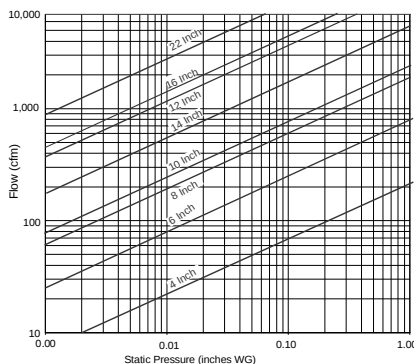
Furnish and install round balancing dampers manufactured by Johnson Controls.

Damper shrouds are to be constructed of formed 20-gauge G90 galvanized sheet steel, mechanically joined.

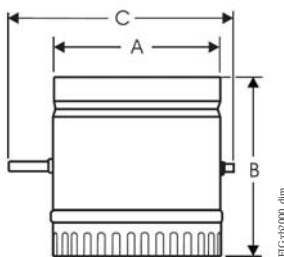
Damper blades are to be constructed with single-piece galvanized steel based on shroud material.

Damper performance shall not require tight shutoff. The damper must be rated to operate over a temperature range of -20 to 200°F (-29 to 93°C).

Damper sizing shall be by the designer in accordance with accepted industry practices to insure proper system performance.



Pressure Drop



RZ-2000 Dimensions

Dimensions, in. (mm)

A	B	C
6 (152)	6 (152)	7.6 (193)
7 (178)	9.4 (239)	8.6 (218)
8 (203)	9.9 (251)	9.6 (244)
9 (229)	10.9 (277)	14.5 (368)
10 (254)	10.9 (277)	15.5 (394)
11 (279)	11 (279)	16.5 (419)
12 (305)	12 (305)	17.5 (445)
13 (330)	13 (330)	18.5 (470)
14 (356)	14 (356)	19.5 (495)
15 (381)	15 (381)	20.5 (521)
16 (406)	16 (406)	21.5 (546)
17 (432)	17 (432)	22.5 (572)
18 (457)	18 (457)	23.5 (597)

RZ-2000 Round Balancing Damper Selection Chart

Code Number	Damper				Actuator
	R	Z	d	d	
Product Family	R = Round Dampers				
Application	Z = Zone Dampers (no seals)				
Material	G = Galvanized				
Diameter	06 to 18 - 1 Inch Increments				
Actuator	I = Incremental (M9104-AGA-3S)				
	P = Proportional (M9104-GGA-3S)				
	D = Default Signal				
Operation	NO = Normally Open				
Option	C = Actuator Cover (Optional)				