

RM-1200 Slim Round Control Damper

Description

Since 1905, Johnson Controls has developed and refined air control products by providing the highest quality control dampers that fit your application and size requirements. Now we are including round industrial style dampers in our product offering.

RM-1200 dampers are available in sizes up to 48 inches (122 cm) in diameter with galvanized steel, aluminum, or 304 stainless steel frames with no seals, neoprene seals, or silicone seals. The RM-1200 dampers feature the blade seals locked inside the blade.

RM-1200 heavy duty dampers are designed for airflow modulation and shutoff in industrial applications. These dampers are equipped with blade seals for low leakage applications.

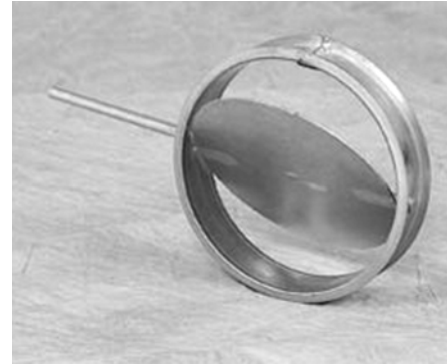
Refer to the *RM-1200 Slim Round Control Damper Product Bulletin (LIT-12011358)* for important product information.

Features

- 3-Year Warranty on Materials and Workmanship
- 15 to 25 Working-Day Standard Shipping after Order Entry

Repair Information

If the RM-1200 Slim Round Control Damper fails to operate within its specifications, replace the unit. For a replacement RM-1200 Damper, contact the nearest Johnson Controls® representative.



RM-1200 Slim Round Control Damper

Selection Chart

	Code Number	FIELD					
		1	2	3	4	5	6
Product Family	R = Round Dampers	R	M	G	d	d	X
Application	M = Slim line Galvanized ¹						
Shroud Type	A = Aluminum G = Galvanized Steel S = Stainless Steel						
dd = Diameter	04 in. through 48 in. in increments of 1 in.						
Actuator	M = Manual Locking Quadrant N = None						

1. Under 6 inches (152 mm) in diameter: 2 inches x 12 ga. (5 cm x 2.7 mm),
6 to 12 inches (152 to 305 mm) in diameter: 2 inches x 1/2 inch x 14 ga. (5 cm x 1.3 cm x 1.8 mm)
12 to 24 inches (305 to 610 mm) in diameter: 2 inches x 1/2 inch x 1/8 inch (5 cm x 1.3 cm x 0.3 cm)
34 to 40 inches (610 to 1,016 mm) in diameter: 2 inches x 1 inch x 3/16 inch (5 cm x 2.5 cm x 0.5 cm)
40 to 48 inches (1,016 to 1,219 mm) in diameter: 2-1/2 inches x 1-1/2 inches x 1/4 inch (6.4 cm x 3.8 cm x 0.6 cm)

Performance Data

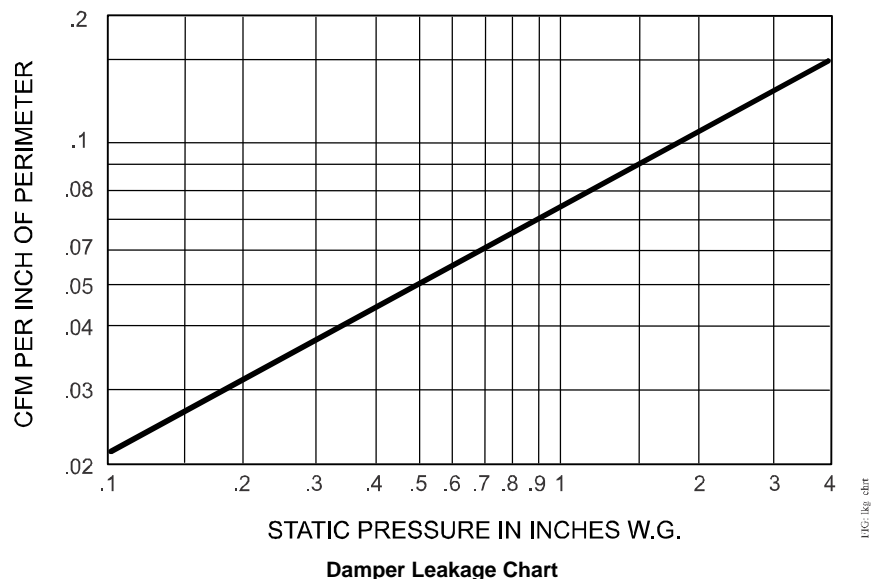
To determine damper leakage, enter the Damper Leakage Chart from the top side. Given the static pressure the damper encounters in closed position, move vertically over diagonal line, then move left to cfm of leakage per inch of perimeter.

Example: Damper operating at 1.5 inches w.g. (0.37 kPa) static pressure leaks .09 cfm per inch of perimeter (.11 lps per cm of perimeter).

Total leakage on an 8 inch (20.3 cm) round is $8 \times 3.14 \times 0.09$ CFM per inch perimeter = 2.26 cfm (20.3 cm x 3.14 x 0.11 lps per cm = 7.59 lps) leakage.

Ratings are based on AMCA Standard 500 using Test Set-up Apparatus Figure 5.3 (damper installed with duct upstream and downstream).

Static pressure and cfm (lps) are corrected to 0.075 lb/cubic ft (1.2 kg/cubic m).



RM-1200 Slim Round Control Damper (Continued)

To determine static pressure drop through an open damper, enter the Static Pressure Drop Chart from the left side. Given the cfm of airflow through the damper, follow the cfm line to the diagonal line with the damper size required, then down to the static pressure drop of the unit.

Example: The pressure drop of an 8 inch (20.3 cm) damper with 700 cfm (330 lps) flow is 0.06 inches w.g. (.015 kPa).

Static Pressure, in. w.g. (kPa)

Damper Diameter, in. (cm)	Minimum Inch-Pounds (Newton Meter) Torque at 2 in. w.g. (0.5 kPa) or Less Static Pressure
4 (10.2)	36 (4.07)
5 (12.7)	40 (4.52)
6 (15.2)	44 (4.97)
7 (17.8)	48 (5.42)
8 (20.3)	52 (5.88)
9 (22.9)	56 (6.33)
10 (25.4)	60 (6.78)
12 (30.5)	68 (7.69)
14 (35.6)	76 (8.59)
16 (40.6)	84 (9.49)
18 (45.7)	92 (10.39)
20 (50.8)	100 (11.30)
22 (55.9)	108 (12.20)
24 (61)	116 (13.11)

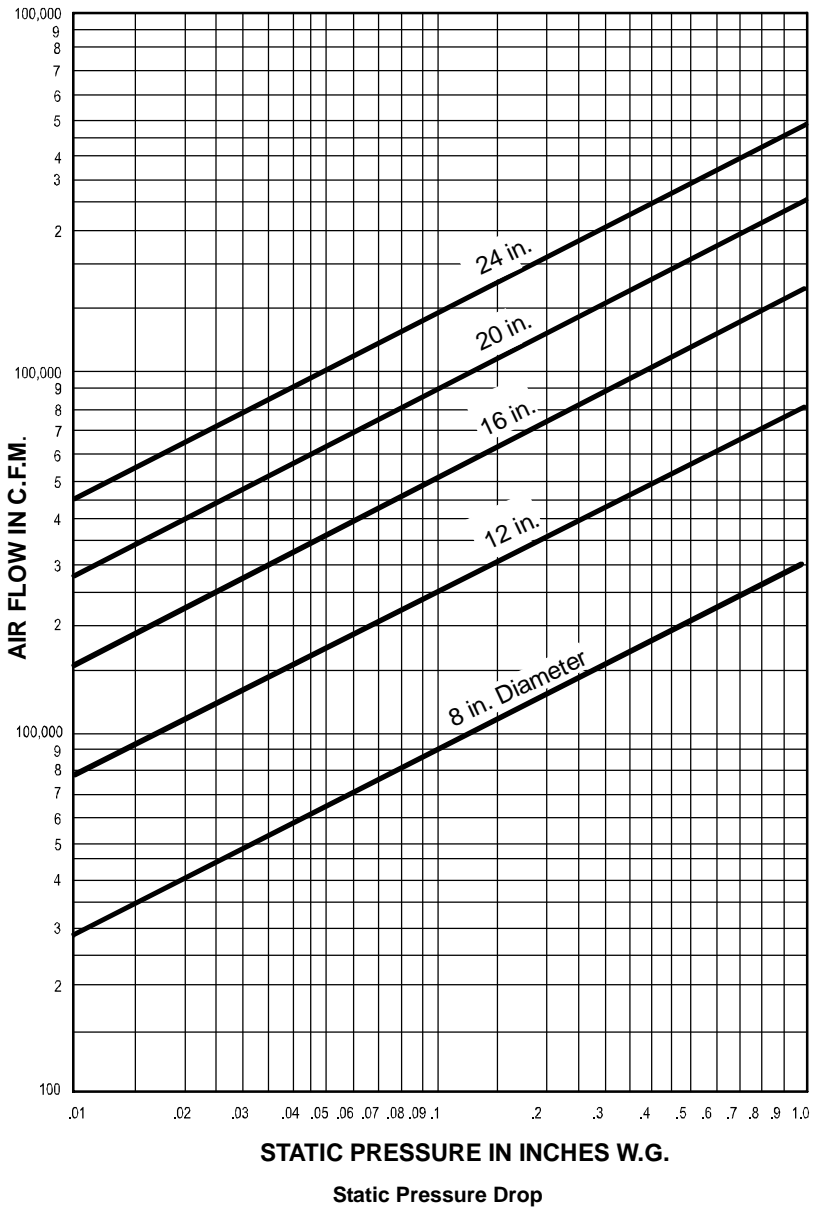


FIG. RM1200_press_drp