

Heavy Duty High Pressure Round Damper – Model HTR-5

Design Features – High pressure industrial round control damper provides 40" W. G. maximum static pressure.

STANDARD CONSTRUCTION

FRAME

Steel channel, dimensions vary according to size, see chart below

BLADES

Steel, with stiffeners, dimensions vary according to size, see chart below

BLADE AXLES & BEARINGS

AXLE – Continuous steel shaft

BEARING – 2-bolt flange on standoff bracket with packing gland

BLADE STOP

1/2" x 1/2" steel

MAXIMUM VELOCITY & STATIC PRESSURE

7000 FPM @ 40" W. G.

MIN. & MAX. TEMPERATURE

-40° F to 250° F – Standard

-400° F to 750° F (optional) clearance between blade & frame will be increased

MAXIMUM SIZE

72" Diameter

MINIMUM SIZE

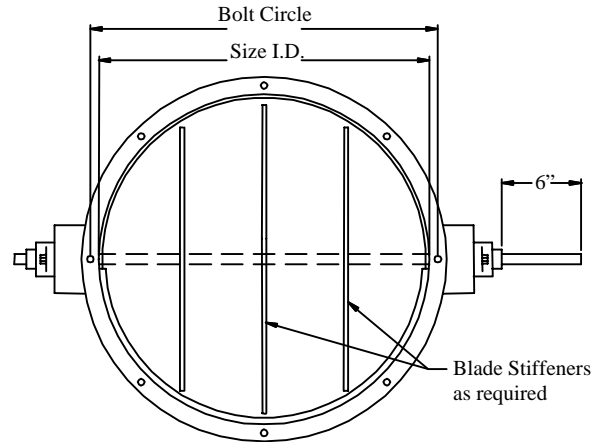
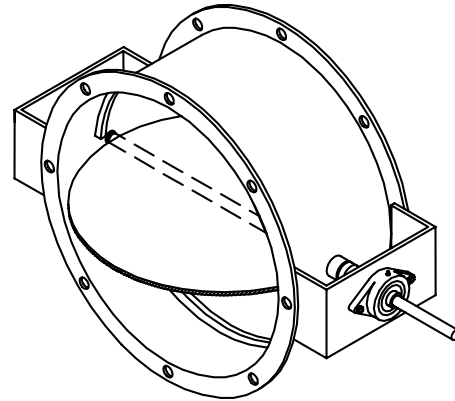
4" Diameter

FINISH

Aluminum paint

ACTUATOR

None (see optional construction)



OPTIONAL CONSTRUCTION

SPECIFIED MATERIAL – Available in stainless steel

FINISH – Air-dry primer, polyurethane, epoxy, or enamel. Baked epoxy or enamel. For industrial special purpose coating, please consult Dowco.

BOLT HOLES – Based on standard bolt circles available

SEALS - Silicone blade edge seal secured with 12 ga. 1-1/2 ring bolted to blade

ACTUATORS – Manual, Electric, or Pneumatic.

SPECIAL PURPOSE CONSTRUCTION

For higher temperatures and velocities, please consult Dowco.

Size I. D.	Frame Depth & Web Thickness	Flange	Blade Thickness	Axle Diameter	Maximum Static Pressure	Maximum Velocity
4" to 6"	6" x 1/8"	1-1/4" x 1/8"	1/4"	1/2"	40" wg.	7000 fpm
>6" to 11"	9" x 1/8"	1-1/4" x 1/8"	1/4"	3/4"	40" wg.	7000 fpm
>11" to 14"	9" x 1/8"	1-1/2" x 1/8"	1/4"	1"	40" wg.	7000 fpm
>14" to 24"	9" x 3/16"	1-1/2" x 3/16"	1/4"	1"	40" wg.	7000 fpm
>24" to 32"	12" x 1/4"	2" x 1/4"	1/4"	1-1/2"	40" wg.	7000 fpm
>32" to 44"	12" x 1/4"	2" x 1/4"	1/4"	2"	40" wg.	7000 fpm
>44" to 48"	12" x 1/4"	2" x 5/16"	1/4"	2-1/2"	40" wg.	7000 fpm
>48" to 52"	12" x 5/16"	2" x 5/16"	3/8"	2-1/2"	40" wg.	7000 fpm
>52" to 72"	12" x 5/16"	2-1/2" x 5/16"	3/8"	3"	40" wg.	7000 fpm

DATE		ARCHITECT / ENGINEER			CUSTOMER	
PROJECT						
ITEM	QTY	W	H	DESCRIPTION		



DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR/DOWCO

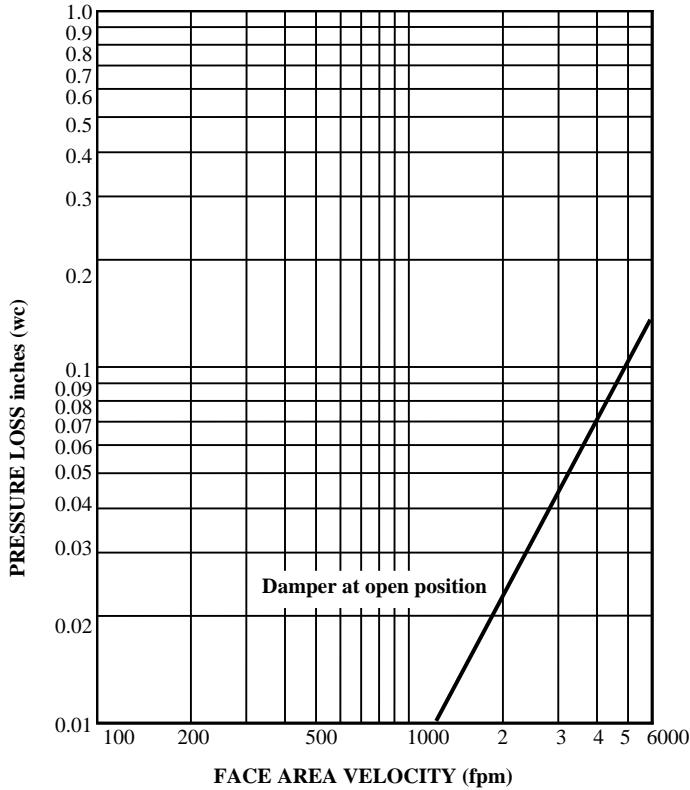
Engineering and General Offices

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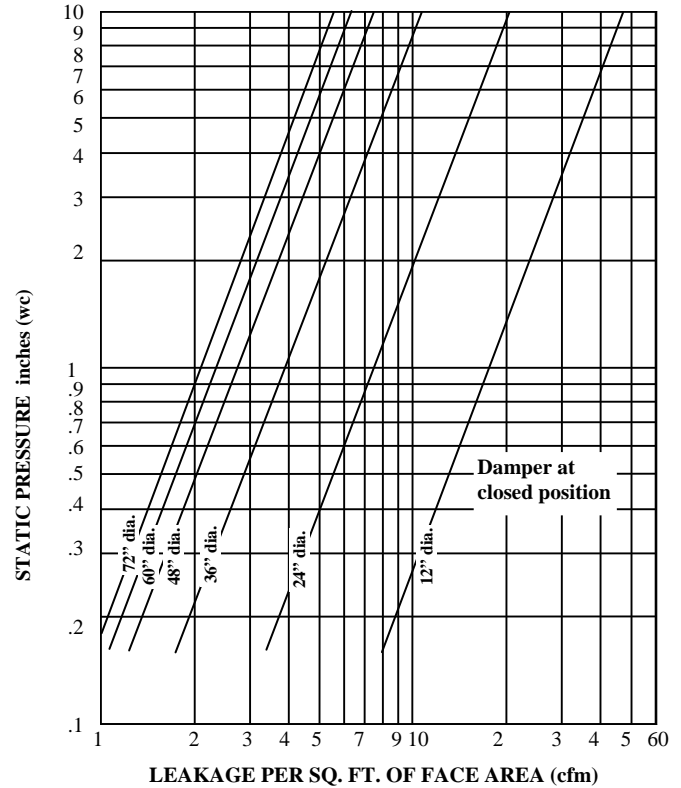
All tests performed at an independent laboratory and based on AMCA standards for air performance.

AIR PERFORMANCE



24" diameter sample tested per AMCA Std. 500, Figure 5.3

AIR LEAKAGE



STANDARD BOLT HOLE PATTERN FOR HEAVY DUTY ROUND DAMPERS				
Order Size (Inches)	Flange (F)	Bolt Size (Diameter)	Number of Holes	Bolt Circle Factor
4 to 5	1"	9/32"	6	1-5/16"
6	1-1/4"	9/32"	6	1-5/16"
7	1-1/4"	3/8"	6	1-1/2"
8	1-1/4"	3/8"	6	1-9/16"
9	1-1/4"	7/16"	6	1-5/8"
10	1-1/4"	7/16"	6	1-13/16"
11	1-1/4"	7/16"	6	1-3/4"
12 to 18	1-1/2"	7/16"	8	2"
19 to 22	1-1/2"	7/16"	12	1-3/4"
23 to 24	1-1/2"	7/16"	12	1-7/8"
25	1-1/2"	7/16"	16	1-7/8"
26 to 36	2"	7/16"	16	2-3/8"
37 to 50	2"	7/16"	24	2-3/8"

Size Diameter	Leakage Performance Per SF. of Face Area	
	Leakage w/seals (CFM)	Leakage w/out seals (CFM)
72"	2.1	9.44
60"	2.27	11.12
48"	2.76	13.52
36"	3.92	17.16
24"	7.88	26.26
12"	18.92	61.78

Based on 1" w. g. static pressure

- Actual I. D. Size = Order Size + 1/8"
- Actual O. D. Size = Actual I. D. Size + (F x 2)
- Bolt Circles = Order Size + Bolt Circle Factor

Bolt holes start perpendicular to blade axles (12 o'clock)

