

## 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**

**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**

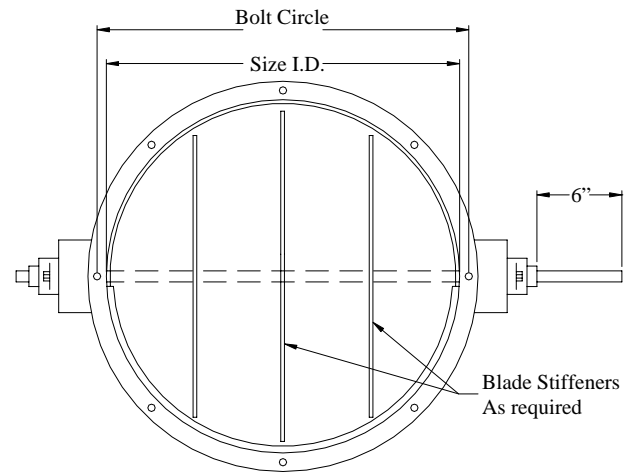
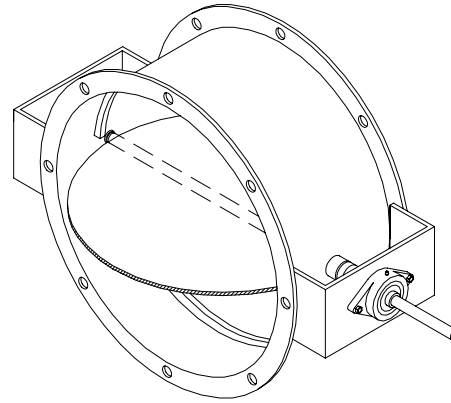
4” Diameter

**FINISH**

Shop Primer

**ACTUATOR**

None (see optional construction)



### OPTIONAL CONSTRUCTION

**SPECIFIED MATERIAL** – Available in stainless steel

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

**BOLT HOLES** – Based on standard bolt circles available

**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 12"	9" x 1/8"	1-1/4" x 1/8"	1/4"	3/4"	40" wg.	7000 fpm
>12" 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

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DATE		ARCHITECT / ENGINEER			CUSTOMER	
PROJECT						
ITEM	QTY	W	H	DESCRIPTION		



DEPENDABLE PRODUCTS SINCE 1955

**SAFE-AIR/DOWCO**

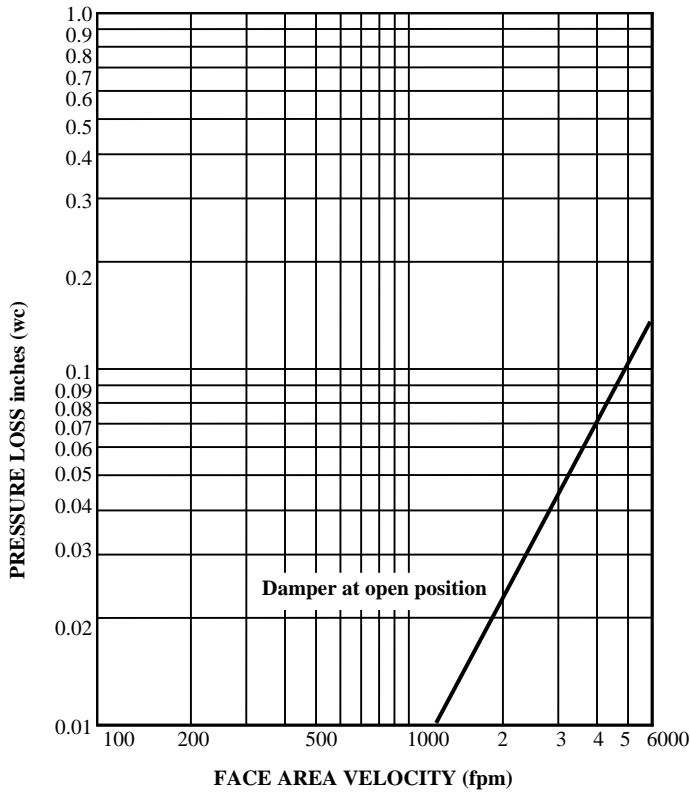
*Engineering and General Offices*

1855 South 54<sup>th</sup> Avenue, Cicero, Illinois 60804

Phone 708-652-9100 FAX 708-652-9158

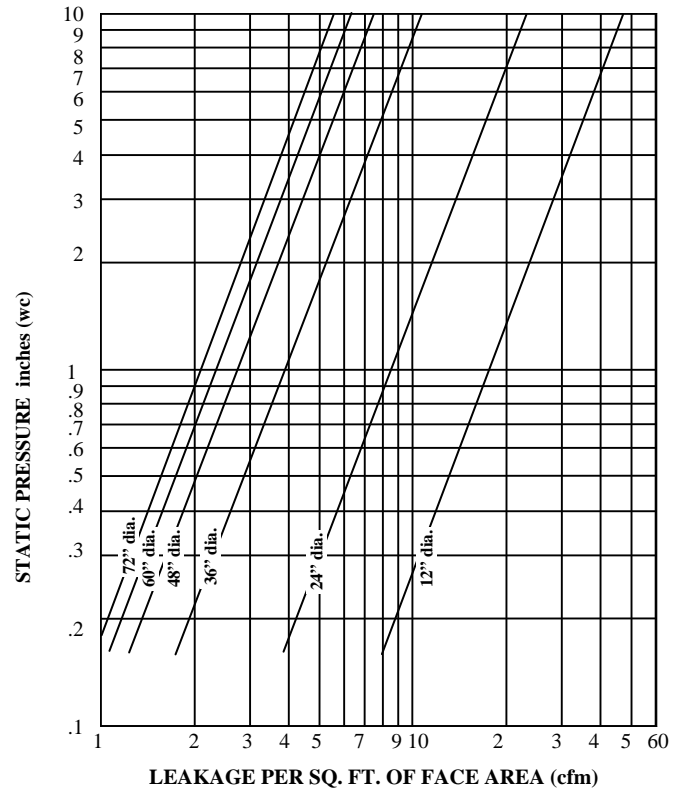
All tests performed at an independent laboratory and based on AMCA standards for air performance.

### AIR PERFORMANCE



FACE AREA VELOCITY (fpm)  
24" diameter sample tested per AMCA Std. 500, Figure 5.3

### AIR LEAKAGE



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

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"

- 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)

