

## Heavy Duty Industrial Round Damper – Model HTR-3

### STANDARD CONSTRUCTION

**FRAME**

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

**BLADES**

Steel, dimensions vary according to size, see chart below

**BLADE AXLES & BEARINGS**

AXLE – Continuous steel shaft

BEARING – Sleeve type stainless steel

**MAXIMUM VELOCITY & STATIC PRESSURE**

6000 FPM @ 10" H<sub>2</sub>O

**MIN. & MAX. TEMPERATURE**

-40° F to 250° F

**MAXIMUM SIZE**

60" Diameter

**MINIMUM SIZE**

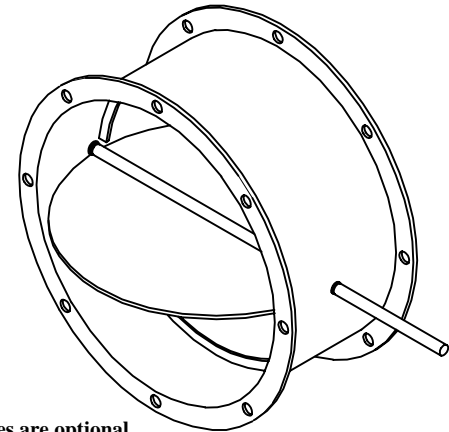
4" Diameter

**FINISH**

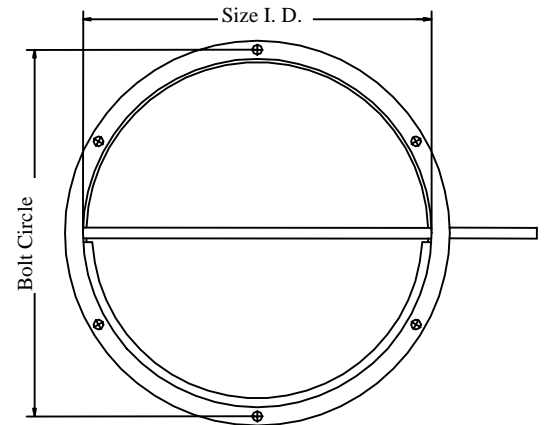
Shop Primer

**ACTUATOR**

None



Bolt holes are optional



### 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

**ACTUATORS** – Manual, Electric, or Pneumatic.

### SPECIAL PURPOSE CONSTRUCTION

For higher temperatures and velocities, please consult Dowco.

Size I. D.	Flange to Flange Depth & Thickness	Flange	Blade Thickness	Axle Diameter	Maximum Static Pressure	Maximum Velocity
4" to 9"	6" x 1/8"	1-1/4" x 10ga.	10ga.	1/2"	10" wg.	6000 fpm
>9" to 12"	8" x 1/8"	1-1/4" x 10ga.	10ga.	1/2"	10" wg.	6000 fpm
>12" to 14"	8" x 1/8"	1-1/2" x 10ga.	10ga.	1/2"	8" wg.	6000 fpm
>14" to 24"	8" x 3/16"	1-1/2" x 10ga.	10ga.	3/4"	8" wg.	6000 fpm
>24" to 32"	8" x 3/16"	2" x 3/16"	10ga.	3/4"	8" wg.	5000 fpm
>32" to 44"	8" x 3/16"	2" x 3/16"	10ga.	3/4"	6" wg.	4000 fpm
>44" to 48"	8" x 3/16"	2" x 3/16"	10ga.	1"	6" wg.	4000 fpm
>48" to 52"	8" x 3/16"	2" x 3/16"	10ga.	1"	6" wg.	4000 fpm
>52" to 60"	8" x 3/16"	2-1/2" x 1/4"	1/4"	1"	6" wg.	4000 fpm

### Leakage Performance

Damper Size	Approx. Total Leakage
60"	40 cfm
48"	30 cfm
36"	25 cfm
24"	20 cfm
12"	10 cfm
4"	6 cfm

DATE		ARCHITECT / ENGINEER			CUSTOMER	
PROJECT						
ITEM	QTY	W	H	DESCRIPTION		



DEPENDABLE PRODUCTS SINCE 1955

**SAFE-AIR/DOWCO**

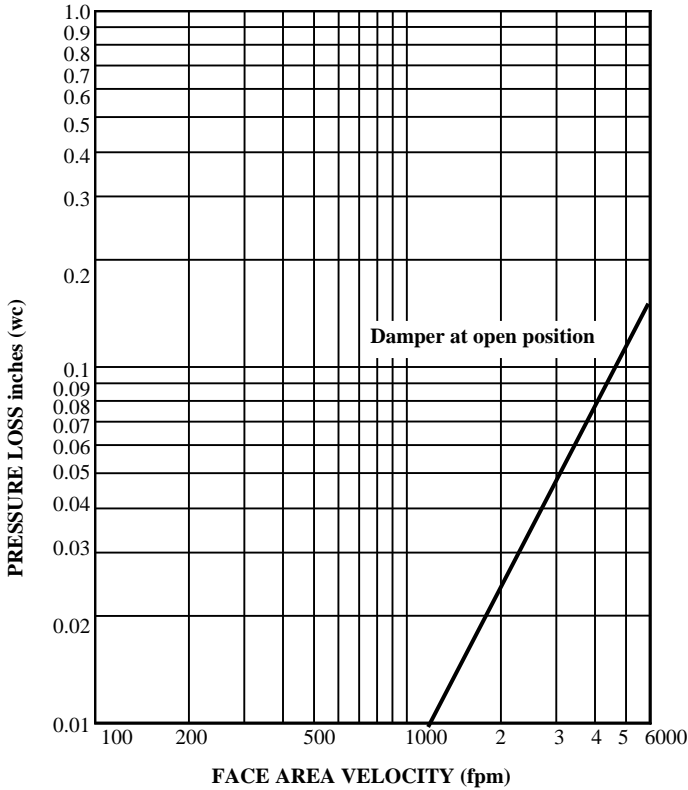
*Engineering and General Offices*

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

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

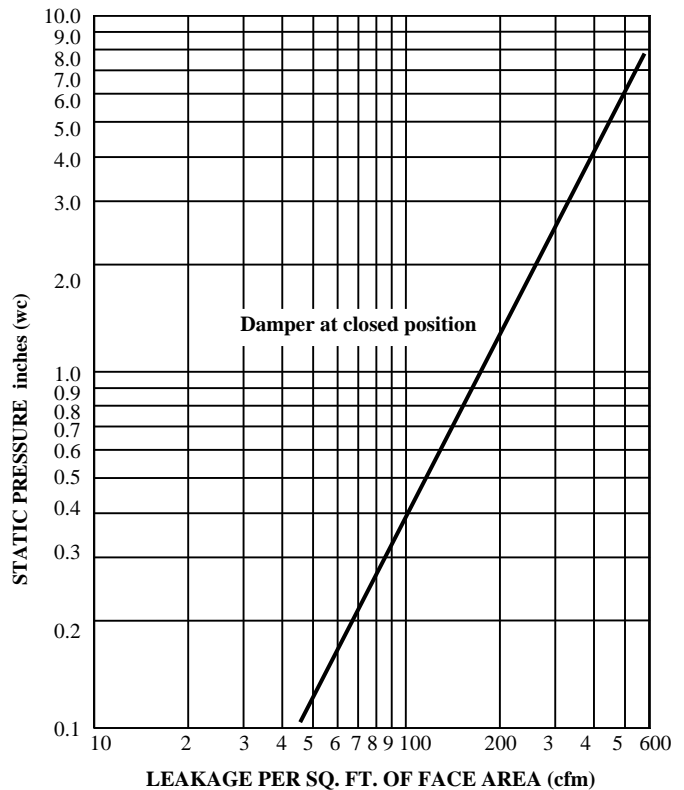
All tests performed at an independent laboratory and based on AMCA standards for air performance.

### AIR PERFORMANCE



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

### AIR LEAKAGE



LEAKAGE PER SQ. FT. OF FACE AREA (cfm)  
48" diameter sample tested per AMCA Std. 500, Figure 5.5

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)

