

## Heavy Duty Back Draft Round Damper – Model HTR-3BD

### 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

**BLADE STOP**

3/8" X 3/8"

**MAXIMUM VELOCITY & STATIC PRESSURE**

See Schedule Below

**MIN. & MAX. TEMPERATURE**

-40° F to 250° F

**MAXIMUM SIZE**

60" Diameter

**MINIMUM SIZE**

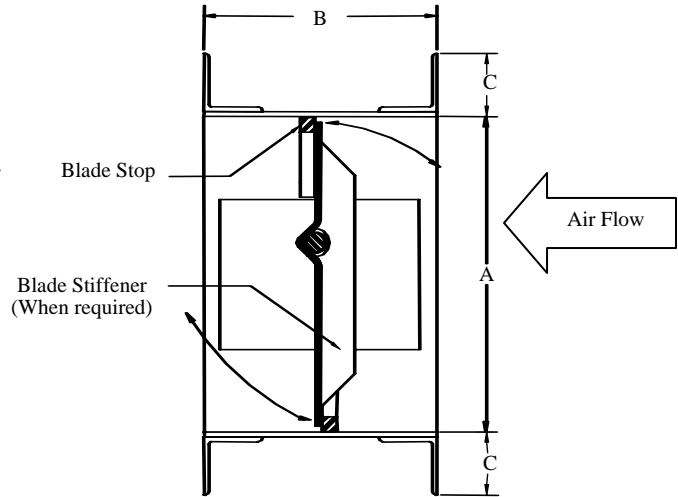
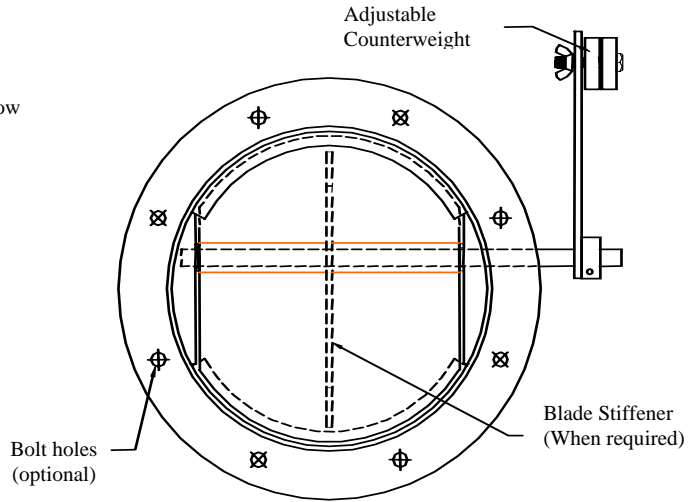
6" Diameter

**FINISH**

Shop Primer

**ACTUATOR**

None



### OPTIONAL CONSTRUCTION

**SPECIFIED MATERIAL** – Available in 304 & 316 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

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

### SPECIAL PURPOSE CONSTRUCTION

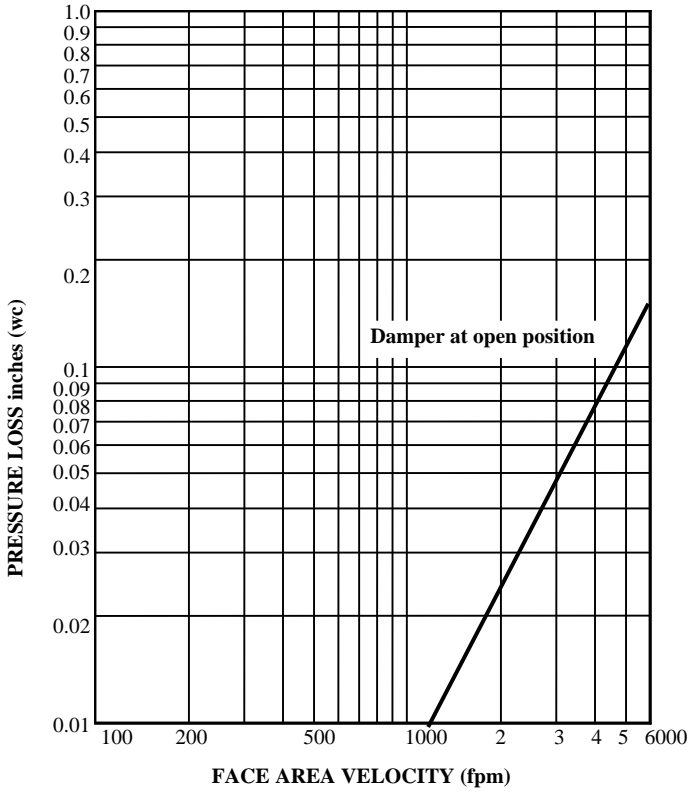
For higher temperatures and velocities, please consult Dowco.

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 11"	8" x 1/8"	1-1/4" x 10ga.	10ga.	1/2"	10" wg.	6000 fpm
>11" 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

DATE		ARCHITECT / ENGINEER			CUSTOMER	
PROJECT						
ITEM	QTY	W	H	DESCRIPTION		

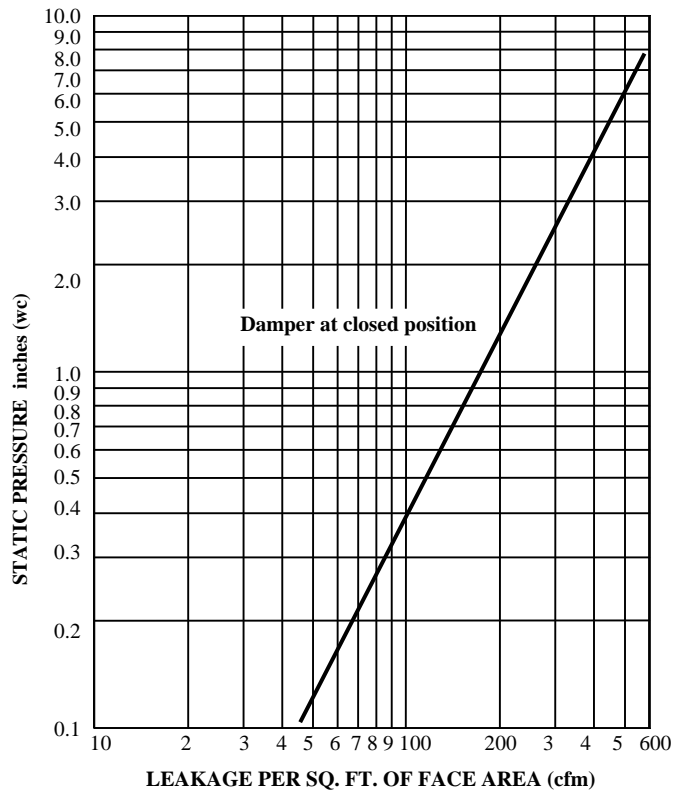
All tests performed at an independent laboratory and based on AMCA standards for air performance.

### AIR PERFORMANCE



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

### AIR LEAKAGE



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)

