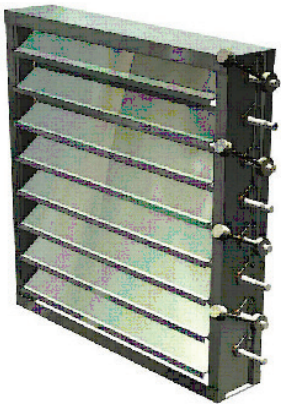
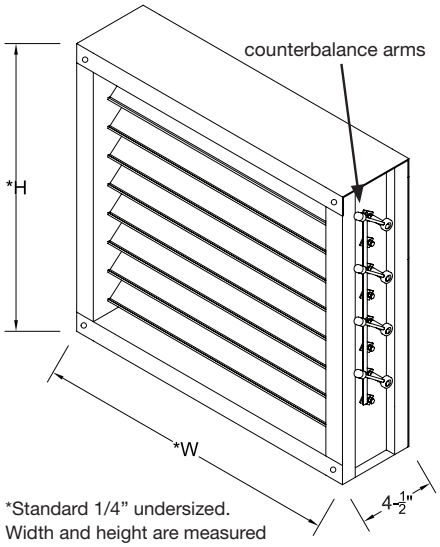
Metropolitan Air Technology

American Made. World Proven.

Model BD-200-HD Heavy Duty Pressure Relief Damper





*Standard 1/4" undersized. Width and height are measured to outside of frame

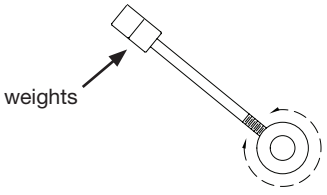
Application
The BD-200-HD is a vertically or horizontally mounted backdraft or pressure relief damper that is designed to allow vertical or horizontal airflow and prevent reverse airflow.

Standard Construction
- Frame: 16ga. Galvanized Steel
- Blade: 16ga. Galvanized Steel V-Blade
- Linkage: Zinc plated concealed
- Axles: 1/2" diameter cast zinc & steel
- Bearings: Bronze Oilite
- Blade Seals: PVC (180° F)

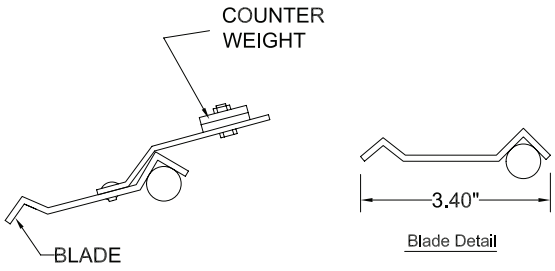
Min. Size 6" w x 6" h, (152mm x 152mm)
Max. Single Section 48" w x 48" h, (1219mm x 1219mm)
Max. Double Section 96" w x 96" h, (2438 x 2438mm)

Ratings
- Pressure: 4 in. w.g. - differential pressure
- Velocity: 4000 fpm
- Temperature: 180° F
- 2 hr fire resistance (tested to UL 555)

Options
- Heavier gauge steel construction
- Standard 1 1/2" flange or custom flange
- Side Plate (20ga. galvanized steel)
- Stainless Steel construction
- In airstream counterbalanced weights
- Epoxy coated (powder coated @ 415°F)
- 450°F silicone blade seals
- Factory installed actuator for power open (internal mount) Model BD-200-HD-M



Precision Counter Balanced; both by counterweight arm rotation around hub or by sliding weight(s) up or down the rod



Optional: In airstream counter balanced (no side plate)

BD-200-HD

Represented by:

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Model BD-200-HD Heavy Duty Pressure Relief Damper

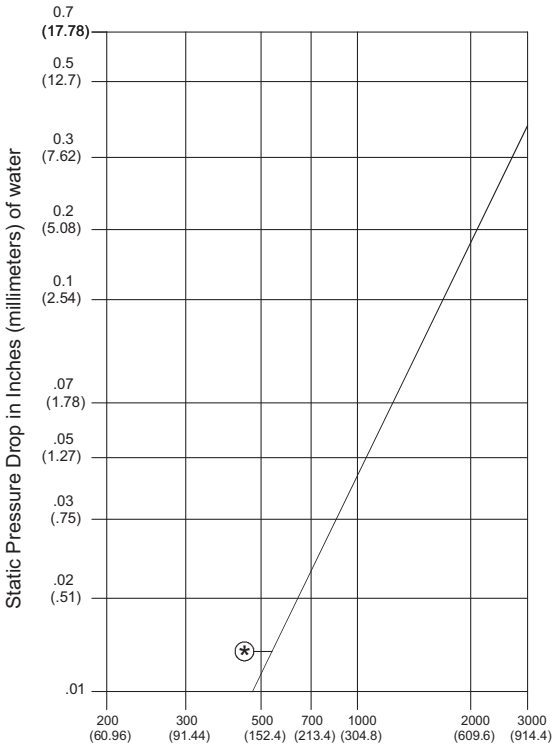
Performance Data

DAMPER PERFORMANCE

DAMPER WIDTH	MAXIMUM BACK PRESSURE	MAXIMUM SYSTEM VELOCITY	LEAKAGE*		BLADES START TO OPEN	BLADES FULLY OPEN
			Percent of Max. Flow	CFM/ Sq. Ft.		
48" (1219)	4.0" w.g.	4000 FPM (20 m/s)	.61	15	**.01" w.g.	**.05" w.g.
36" (914)	8.0" w.g.	4000 FPM (20 m/s)	.6	15		
24" (610)	12.0" w.g.	4000 FPM (20 m/s)	.72	18		
12" (305)	16.0" w.g.	4000 FPM (20 m/s)	1	24		

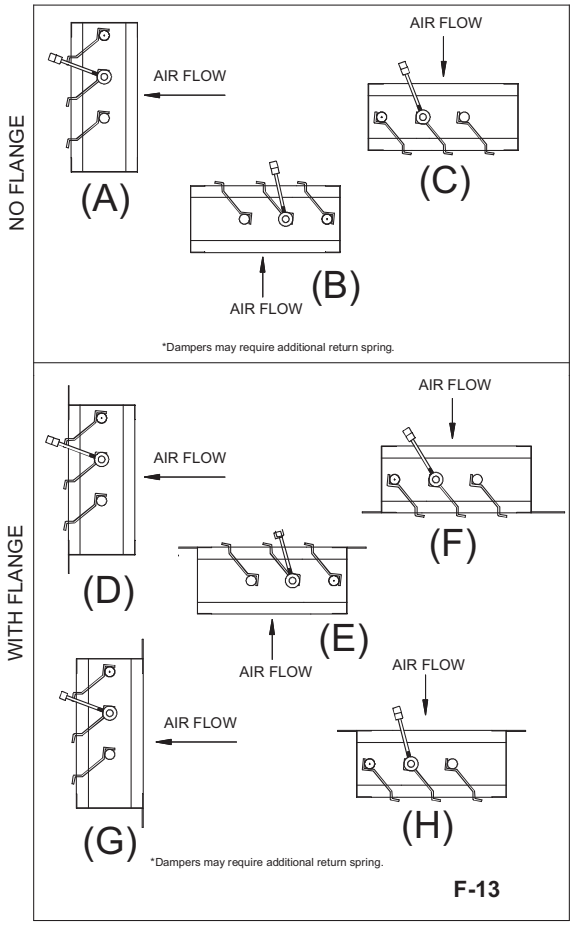
*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.
**set at least resistant to open

DAMPER PRESSURE DROP
(24" X 24")



Air Velocity in feet (meters) per minute through face area.
Tested per AMCA Std. 500, Fig. 5.3, ductwork upstream and downstream.
* Set at least resistant to open

BD-200-HD AIR FLOW ARRANGEMENTS
Standard counter weights at jamb
(assist to CLOSE)



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