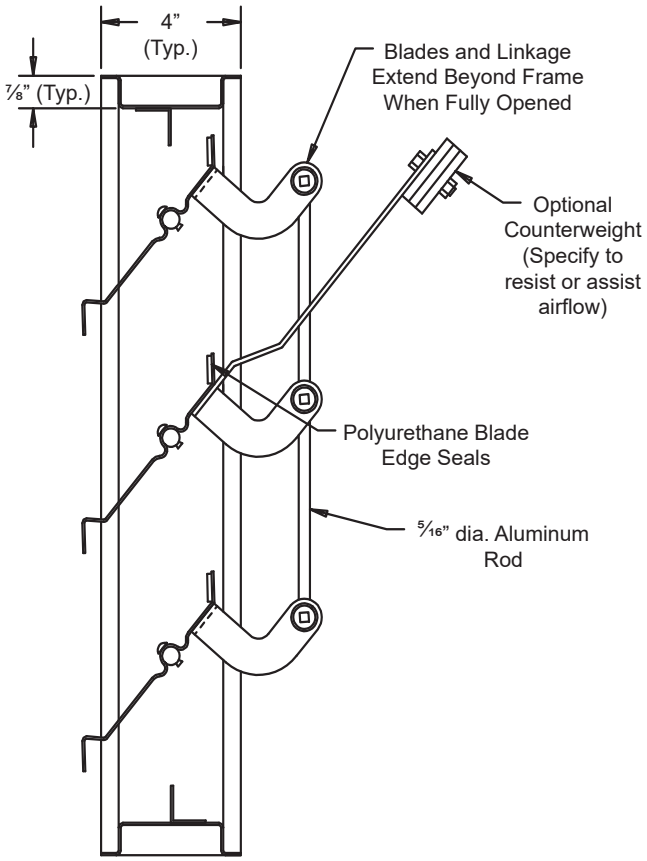
Model PR66

Backdraft Damper • 4” Deep • Single Thickness Blades • Galvanized Steel • -30°F to 180°F Temperature

STANDARD CONSTRUCTION

FRAME: 16 GA. galvanized steel, hat-shaped channel frame.
BLADES: 16 GA. galvanized steel, approximately 8” on centers.
SHAFTS: ½” dia. plated steel stub 6” long, mono-bolted to blade.
BLADE SEALS: 3⁄16” thick polyurethane foam.
BEARINGS: Oil impregnated sintered bronze, flanged sleeve.
LINKAGE: ⅛” thick plated steel bracket with ½” dia. steel pivot in a celcon sleeve bearing. Linkage rod is 5⁄16” dia. aluminum, locked to pivot with ¼ - 20 UNC plated steel set screw.
FINISH: Mill.
TEMP. LIMITS: -30°F to +180°F



Not to scale.

OPTIONS

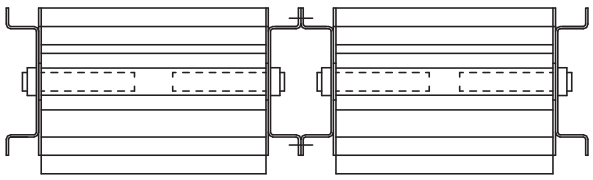
Materials: Stainless steel and galvanized steel of other gauges (up to 10 GA.)
Bearings: nylon, ball, sintered, or stainless steel.
Jamb Seals: polyurethane or neoprene.
Aluminum blades and shafts.
Neoprene blade edge seals.
Shafts up to 1” diameter.
Stainless steel shafts or linkage.
Adjustable counterweights to assist or resist opening.
Adjustable counterweights for external application on extended shaft.

NOTES

1. Nominal deductions will be made to the opening size given.
2. When a non-symmetrical frame cross section is specified (example: flange frame) specify the flange/airflow orientation - horizontal, vertical-up, or vertical-down.
3. Approximate damper weight is 6½ lbs./sq.ft.

DAMPER SIZES

Min Panel	Max Single Panel
8”W x 11”H	48”W x 72”H


Mullion Detail (typ)

Top View

Item #	**Qty**	Width / Height		Width / Height		**Mullion**	**Counter Balance**	**Air Flow (Direction)**	**Union Made**
		Opening Size		**Damper Size**					
Arch. / Eng.:						**EDR:**		**ECN:**	**Job:**
Contractor:									
Project:						**Date:**		**DWN:**	**DWG:**

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

Louvers & Dampers
A Mestek Company

www.louvers-dampers.com

450 Riverside Drive • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286

Model PR66

Backdraft Damper • 4" Deep • Single Thickness Blades • Galvanized Steel • -30°F to 180°F Temperature

PERFORMANCE DATA

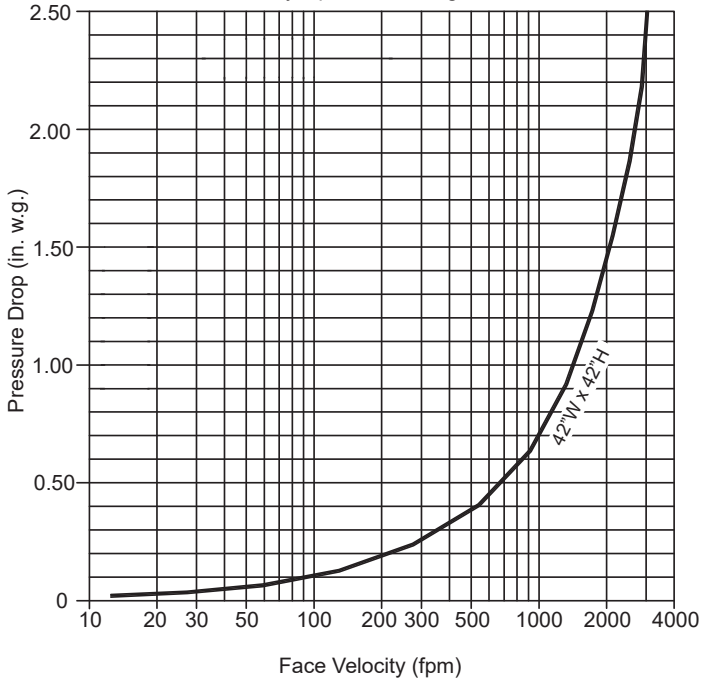
Typical performance for model PR66 backdraft damper. Size tested 42"W x 42"H, furnished with counterweight to assist opening.

Face Velocity vs. Pressure Drop

Without Ductwork

Damper installed per AMCA 500 Fig. 5.4 (Face Mounted to a Plenum). Pressure is corrected to .075 lb./cu.ft air density.

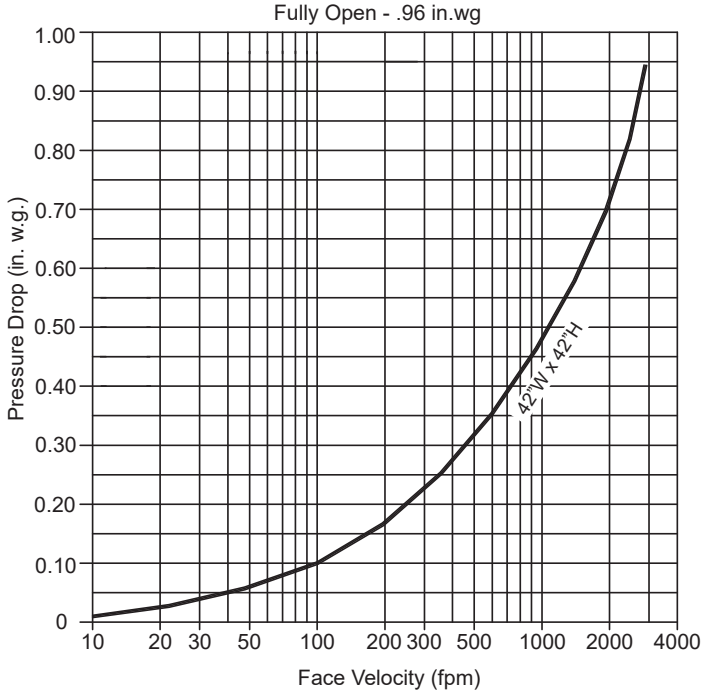
Operational Pressures
Start to Open - .01 in.wg
Fully Open - 2.5 in.wg



With Ductwork

Damper installed per AMCA 500 Fig. 5.3 (Ductwork installed upstream and downstream of damper). Pressure is corrected to .075 lb./cu.ft. air density.

Operational Pressures
Start to Open - .01 in.wg
Fully Open - .96 in.wg



AIR LEAKAGE DATA

Air leakage quantities shown in the chart are results of tests per AMCA Standard 500 and shown at 1 in. w.g. differential pressure and corrected to .075 lb./cu.ft. air density.

Total CFM Air Leakage at 1 in. w.g. Static Pressure Differential Through Closed Damper.

		Width (in.)						
		12"	**18"**	**24"**	**30"**	**36"**	**42"**	**48"**
Height (in.)	**12"**	8.3	12.5	16.6	20.8	24.9	29.0	33.2
	24"	16.6	24.9	33.2	41.5	49.8	58.1	66.4
	36"	24.9	37.4	49.8	62.3	74.7	87.2	99.6
	48"	33.2	49.8	66.4	83.0	99.6	116.2	132.8
	60"	41.5	62.3	83.0	103.8	124.5	145.3	166.0
	72"	49.8	74.7	99.6	124.5	149.4	174.3	199.2

Use the multiplier correction chart below for determining leakage values greater than 1 in. w.g. to a maximum 4 in. w.g.

Static Pressure (in.)	2"	3"	4"
Multiple Correction Factor	1.22	1.63	1.99

Air leakage ratings are based on AMCA Standard 500 using test set up Fig. 5.4 with damper in the closed position without the aid of a counterweight or other mechanical means to provide closing torque, for a size 42"W x 42"H damper with blade and jamb seals.