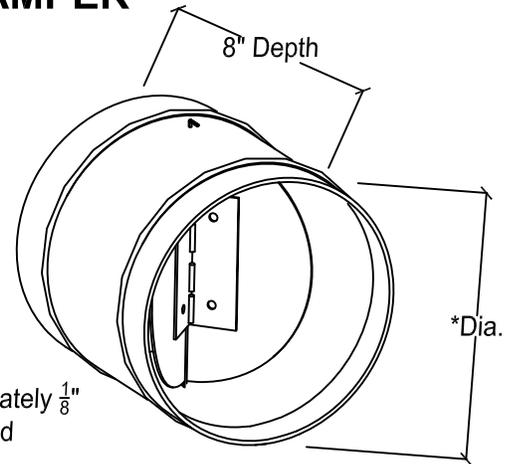
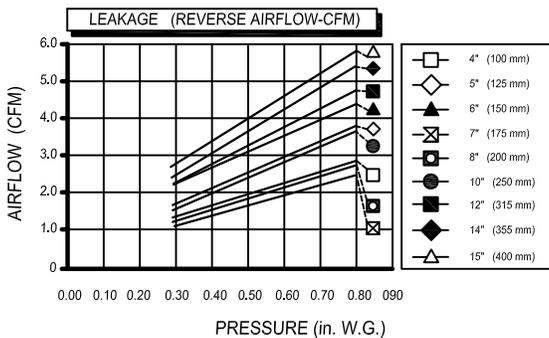
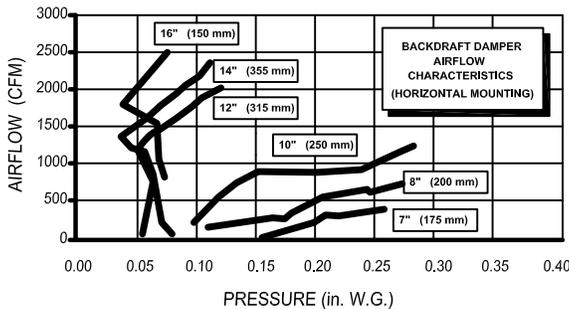
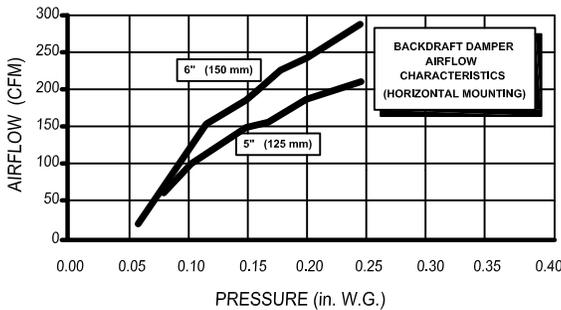




BACKDRAFT DAMPERS

BUTTERFLY BACKDRAFT DAMPER

The Model BF was designed for small round dampers up to 16"Ø for pressure through .30" w.c.



MODEL BF

Dimensions		Maximum Velocity (FPM)
Diameter	Length	
4-10"	8"	2200
12-18"	8"	1900

STANDARD FEATURES:

- EDPM Rubber Gasket in Closed Position for Minimum Leakage
- Aluminum Spring Loaded Butterfly Damper (.025" alum. blades)
- 24 Gauge Galvanized Steel Housing
- Requires .04 to .08 inches w.c. to begin to open.
- May be Installed in Any Position



SIZES AVAILABLE:

4", 5", 6", 7", 8", 9", 10", 12", 14", 16", & 18"

Job Name: _____

Location: _____

Architect: _____

Engineer: _____

Contractor: _____

BADR and ASFOUR
Engineering & Metal Industries

BADR AND ASFOUR
For Engineering and metal industries.
Free zone, Matahra, New Menya, Egypt
Email address: sales.support@badr-asfour.com
W: www.cvshvac.com | badr-asfour.com

MODEL BF

Drawn By: DND	Approved BY: SB	REV. No.: 00	Date: June 2023	Cat ID: BF	Page: 1/4
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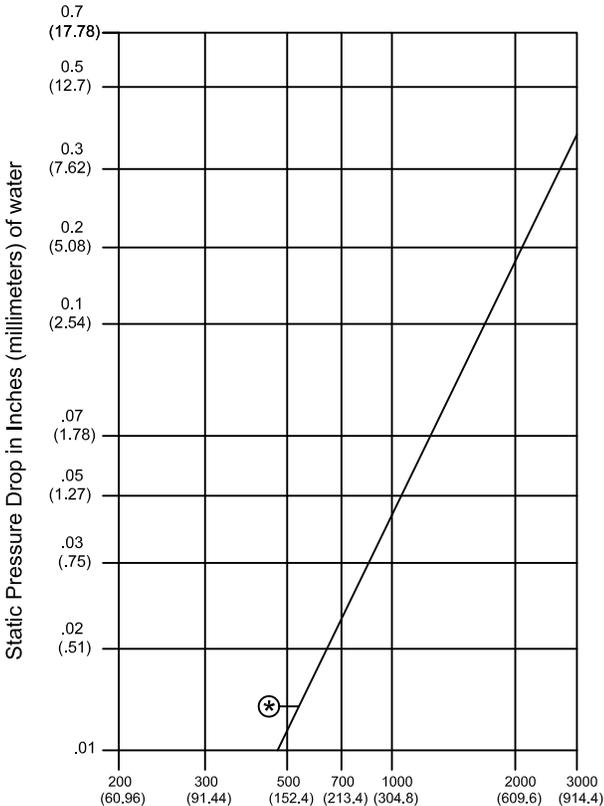
DAMPER PERFORMANCE

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	.61	15		
36" (914)	8.0" w.g.	4000 FPM	.6	15	** .01" w.g.	** .05" w.g.
24" (610)	12.0" w.g.	4000 FPM	.72	18		
12" (305)	16.0" w.g.	4000 FPM	1	24		

*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.

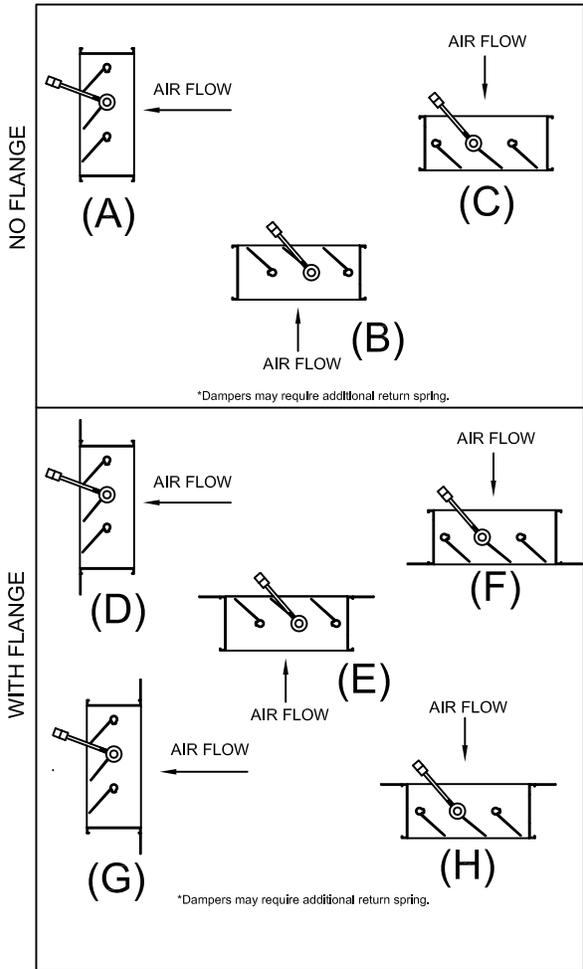
**set at least resistant to open

DAMPER PRESSURE DROP
(24" X 24")



HCB-700 AIR FLOW ARRANGEMENTS

Standard weights at jamb
(assist to CLOSE)



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	.61	15		
36" (914)	8.0" w.g.	4000 FPM	.6	15	** .01" w.g.	** .05" w.g.
24" (610)	12.0" w.g.	4000 FPM	.72	18		
12" (305)	16.0" w.g.	4000 FPM	1	24		

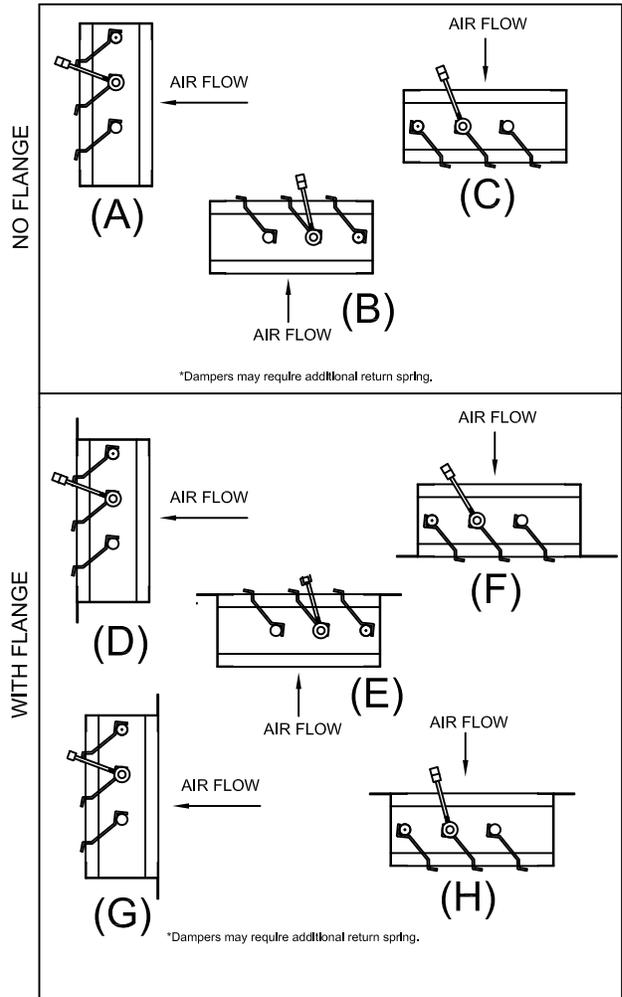
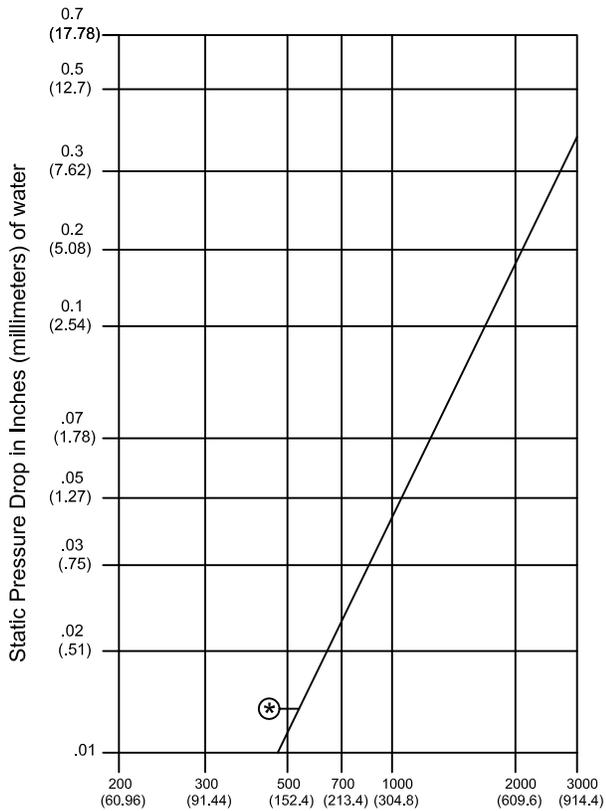
*Leakage information based on pressure differential of 1" w.g. tested per AMCA Std. 500.

**set at least resistant to open

HCB-750 AIR FLOW ARRANGEMENTS

Standard counter weights at jamb
(assist to CLOSE)

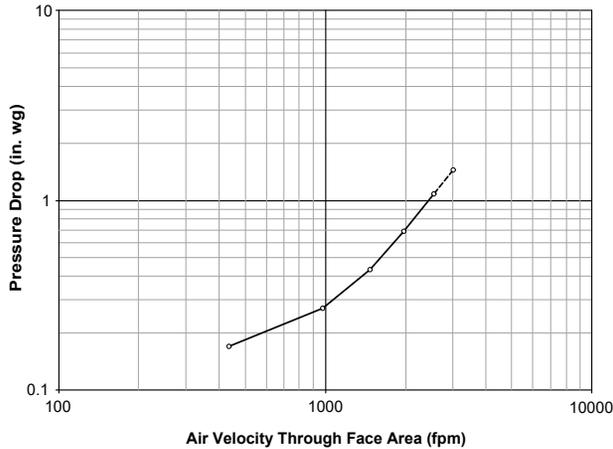
DAMPER PRESSURE DROP
(24" X 24")



PERFORMANCE DATA

Air Performance testing has been performed in accordance with Test Method as per latest version of ANSI/AMCA Standard 500-D, Figure 5.4 for Air Leakage and Figure 5.5 for Pressure Drop. Air leakage is based on operation between 0°C- 49°C(32°F - 120°F).

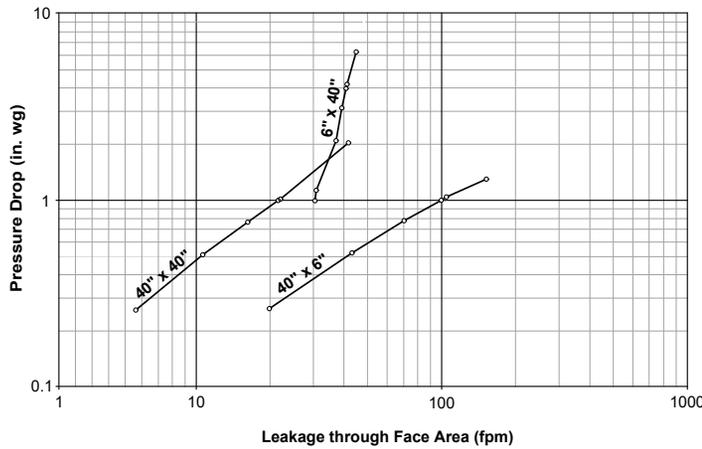
PRESSURE DROP GRAPH - 24" x 24"



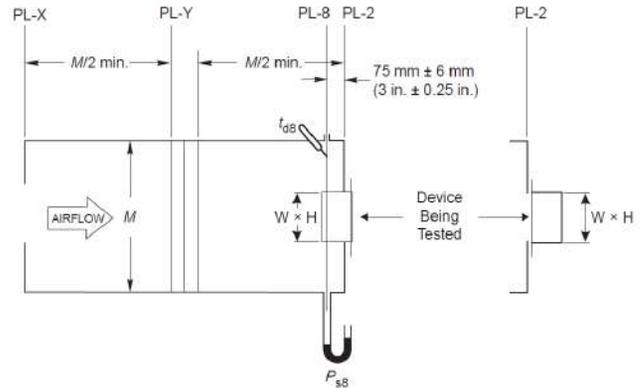
PRESSURE DROP OF DAMPER

24" x 24" - (610 x 610)	
Intake	
Velocity	Pressure Drop
(fpm)	(in. w.g.)
2557	1.082
1965	0.683
1472	0.432
979	0.27
434	0.17

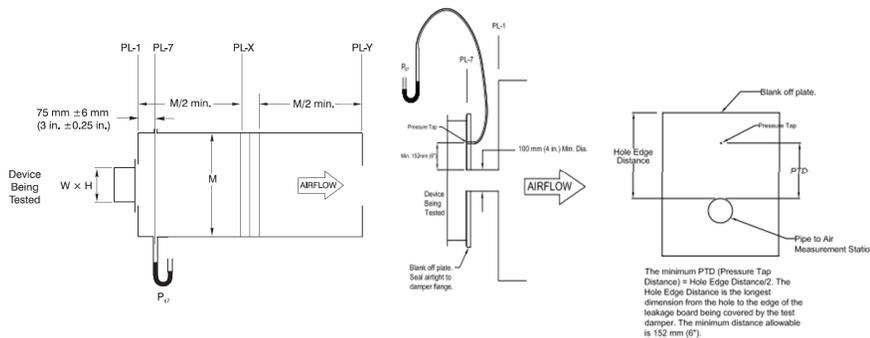
AIR LEAKAGE GRAPH



Test Figure 5.5 - Test Damper Setup with Inlet Chamber



Test Figure 5.4 - Test Damper Setup with Outlet Chamber



CVSA
DAMPER SERIES



SUGGESTED SPECIFICATION:

Central Ventilation Systems certifies that the Backdraft Damper Models CB Series as shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Programs.

The AMCA Certified Ratings Seal applies to air performance and air leakage ratings only.

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