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CBS8BL HEAVY DUTY BLAST DAMPER

STANDARD CONSTRUCTION

FRAME

10" x 2" x 10 gage (254 x 51 x 3.5) steel channel.

BLADES

Double-skin, airfoil type of 14 (2.0) gage steel with a 7" (178) maximum width.

AXLES

3/4 " (19) diameter, plated steel.

BEARINGS

Ball bearings bolted to frame.

FINISH

Mill galvanized.

MAXIMUM TEMPERATURE

250°F (121°C).

MAXIMUM BLAST PRESSURE

3 psi for standard construction. Consult Ruskin for higher pressures.

MINIMUM SIZE

6" w x 6"h (152 x 152).

MAXIMUM SIZE

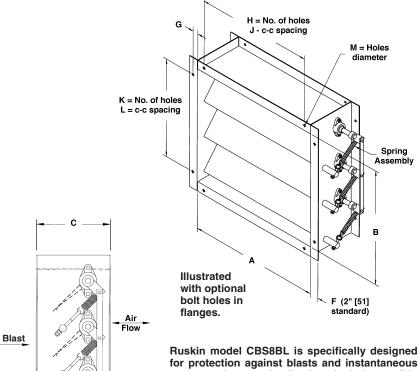
Single Section – 36"w x 96"h (914 x 2438). Multiple Section – 72"w x 96"h (1829 x 2438).* Over maximum size – Consult Ruskin. *Each section to operate independently.

VARIATIONS

Additional variations to those listed in the table are available. Contact Ruskin for additional information

- · Heavier construction for higher blast pressure
- Higher temperature construction
- Special finishes
- Square-to-Round Transitions

Dimensions shown in parentheses () indicate millimeters



for protection against blasts and instantaneous pressure changes. Applications include possible explosions from storage areas containing volatile materials, building de-pressurization from tornadic activity or duct protection. CBS8BL can be flange mounted and constructed from various materials.

*See back of sheet for requirements.

FRAME	BLADES	AXLES	BEARINGS	LINKAGE	SEALS (OPT)	ACCESSORIES (OPT)	
10 GA (3.5) GALV STEEL CHANNEL	14 GA (2.0) GALV STEEL DOUBLE SKIN AIRFOIL	3/4" (19) DIA. PLATED STEEL	RE-LUBE BALL BRG BOLTED TO FRAME	SIDE LINKAGE OUT OF	BLADE SEALS EPDM 250°F	BOLT HOLES ONE FLANGE	
10 GA (3.5) 304 SS CHANNEL (OPT)	14 GA (2.0) 304 SS DOUBLE SKIN AIRFOIL	3/4" (19) DIA 304 SS (OPT)	(OPT)	AIRSTREAM (OPT)	(121°C) MAX BLADE SEALS	BOLT HOLES BOTH FLANGES	
10 GA (3.5) 316 SS CHANNEL (OPT)	14 GA (2.0) 316 SS DOUBLE SKIN AIRFOIL	3/4" (19) DIA. 316 SS (OPT)			SILICONE 400°F (200°C) MAX	11/2" (38) TO 4" (102) FLANGES	
					NEOPRENE WIND STOP JAMB SEALS		

10" (254) Standard

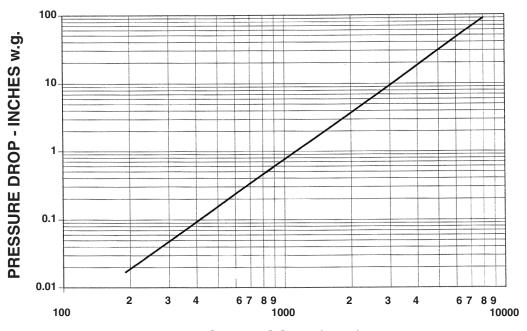
QTY.	DIMENSIONS										Mtg. Orientation*	Mtg. Arrange-	Max. FPM or CFM	Max. Normal SP	VADIATIONS
	Α	В	С	F	G	Н	J	K	L	М	Orientation*	ment*	(if req'd)*	(if req'd)*	VARIATIONS

JOB LOCATION

CONTRACTOR

PRESSURE DROP

Based on testing per AMCA Standard 500 using Test Setup Apparatus figure 5.5 (damper installed on bulkhead).



FACE VELOCITY (FPM) TYPICAL CBS8BL PERFORMANCE

ORDERING INFORMATION

THE FOLLOWING INFORMATION IS REQUIRED TO ORDER A CBS8BL BLAST DAMPER

- 1. Mounting Orientation
 - A. HAFCB Horizontal Airflow Counterblast
 - B. HAFWB Horizontal Airflow with Blast
 - C. VAFUCB Vertical Airflow up Counterblast
 - D. VAFDCB Vertical Airflow Down Counterblast
 - E. VAFUWB Vertical Airflow Up with Blast
 - F. VAFDWB Vertical Airflow Down with Blast
- 2. Mounting Arrangement
 - A. Ducted Upstream and Downstream (Go to #3).

- B. Open to Atmospheric Pressure on one or both sides (Go to #4).
- 3. If 2A:
 - A. Maximum Normal Airflow Volume or Velocity at damper
- 4. If 2B:
 - A. Maximum Normal Static Pressure
- Springs will be sized to hold blades open to 2" WG above maximum conditions unless specified otherwise.

SUGGESTED SPECIFICATION

Furnish and install, at locations shown in plans or in accordance with schedules, industrial grade blast dampers meeting the following construction standards. Frame shall be minimum 10" deep x 2" flanged 10 gage (254 x 51 x 3.5) galvanized steel channel. Frame shall be one piece construction. Sleeve or channel with innerframe is not acceptable. The blades shall be maximum 7" (178) wide, minimum 14 gage (2) galvanized airfoil shaped double-skin. Axles shall be minimum $^3/_4$ " (19) diameter plated steel welded to blade. Bearings shall be be bloted to frame. Linkage shall be minimum $^3/_{16}$ " thick x $^3/_4$ " (5 x 19) bar located on side of damper out of airstream. Pivot pins in linkage shall be stainless steel. Bronze pins or bushings are not acceptable. Linkage shall include externally mounted release springs and adjustable tension to keep damper

open until specified close pressure forces blades closed. Damper shall be designed to withstand blast of up to 3 psi (83" wg.) (2108mm w.g.) with blades closed. Submittal must include pressure drop, and maximum pressure data based on AMCA Publication 500 testing. Damper shall be Ruskin model CBS8BL blast damper.

ADD TO SPECIFICATION IF REQUIRED:

Dampers shall be equipped with mechanically attached EPDM blade seals and wind stops fitted with neoprene sponge seal located directly behind blade edge for low leakage application. Blade seals, maximum 250°F (121°C).

