

3900 Dr. Greaves Rd.

Kansas City, MO 64030

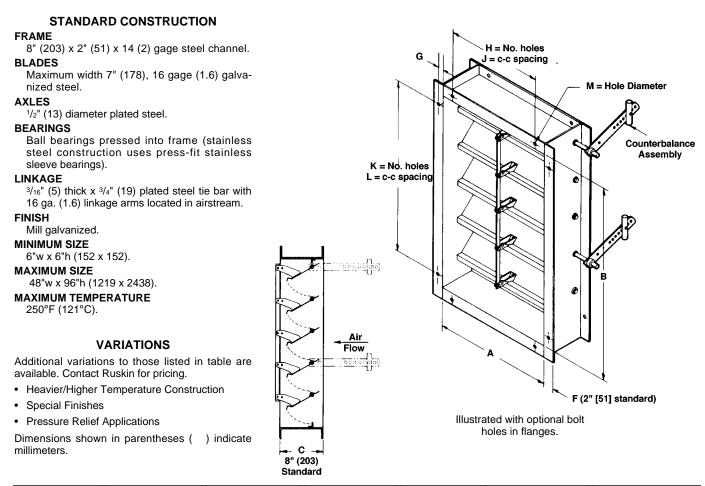
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## **CBS7 HEAVY DUTY COUNTERBALANCED BACKDRAFT DAMPER**

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FRAME BLADES		AXLES	BEARINGS	LINKAGE	SEALS (OPT)	ACCESSORIES (OPT)	
14 GA (2) GALV	16 GA (1.6) GALV STEEL	1/2" (13) DIA.	BALL BRGS PRESSED	FACE LINKAGE	BLADE SEALS PVC	INTERNAL	
STEEL CHANNEL		PLATED STEEL	INTO FRAME	IN AIR STREAM	180°F (82°C) MAX	COUNTER WEIGHTS	
14 GA (2) 304 SS	16 GA (1.6) 304 SS (OPT)	1/2" (13) DIA. 304 SS	SS SLEEVE PRESSED	(EXPOSED)	BLADE SEALS EPDM	BOLT HOLES ONE	
CHANNEL (OPT)		(OPT)	INTO FRAME (OPT)	SIDE LINKAGE	250°F (121°C) MAX	FLANGE	
14 GA (2) 316 SS	16 GA (1.6) 316 SS (OPT)	1/2" (13) DIA. 316 SS	RE-LUBE BALL BRG	OUT OF	BLADE SEALS SILICONE	BOLT HOLES BOTH	
CHANNEL (OPT)		(OPT)	BOLTED TO FRAME	AIRSTREAM	400°F (200°C) MAX	FLANGES	
			(OPT)	(OPT)	NEOPRENE WIND STOPS 250°F (121°C) MAX	11/2" (38) TO 4" (102) FLANGES	

QTY.	DIMENSIONS										VADIATIONO
	Α	В	С	F	G	н	J	κ	L	м	VARIATIONS
JOB LOCATION CONTRACTOR											

# SUGGESTED SPECIFICATION

Furnish and install, at locations shown on plans or in accordance with schedules, industrial grade counterbalanced backdraft dampers meeting the following construction standards: Frame shall be minimum 8" deep x 2" flanged 14 (203 x 51 x 2) gage galvanized steel channel. Frame shall be one piece construction. Sleeve or channel with innerframe is not acceptable. Damper blades shall be maximum 7" (178) wide, 16 (1.6) gage formed galvanized steel. Bearings shall be ball type pressed into frame. Axles shall be minimum 1/2" (13) diameter plated steel tack welded and clipped to blade. Linkage shall be minimum 3/1e" (5) thick x 3/4" (19) plated steel to bar with minimum 16 (1.6) gage galvanized linkage arms located on face of blades in the airstream. Pivot pins in linkage

### **CBS7 PERFORMANCE DATA**

shall be stainless steel. Bronze pins or bushings are not acceptable. Submittal shall include leakage, pressure drop, and maximum pressure data based on AMCA Publication 500 testing. Damper shall be Ruskin model CBS7 heavy duty counterbalanced backdraft damper.

#### ADD TO SPECIFICATION IF REQUIRED:

Dampers shall be equipped with blade and jamb seals for low leakage application. Blade seal shall be rollformed PVC mechanically locked onto blade edge. Adhesive or clip on styles are not acceptable. Jambs shall be equipped with wind stops fitted with neoprene sponge seal located directly behind blade edge.

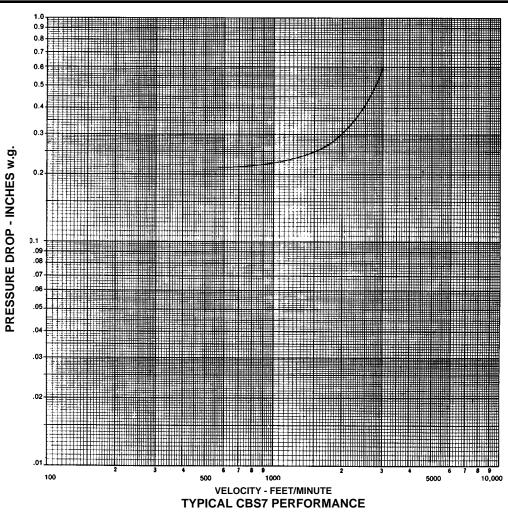
Damper Width	Maximum	Maximum	Leal with s	kage seals*	Leakage without seals*		
	System Pressure	System Velocity	% of max. flow	CFM/ sq. ft.	% of max. flow	CFM/ sq. ft.	
48" 36" 24" 12"	4.0" w.g. 6.0" 8.0" 10.0"	3000 fpm 3000 3000 3000	0.50 0.50 0.57 0.67	15 15 17 20	1.33 1.67 2.00 3.33	40 50 60 100	

\*Leakage information based on pressure differential of 1" w.g.

#### DAMPER PRESSURE DROP

Dampers may tolerate higher pressures and velocities than shown. Conservative pressure and velocity ratings are presented intentionally in an effort to avoid misapplication. Consult Ruskin or your Ruskin representative when damper is to be applied in conditions exceeding recommended maximums.

**NOTE:** CBS7 is not designed for pressure relief applications.



Based on testing of size 24" x 24" (610 x 610) per AMCA Standard 500 using Test Setup Apparatus figure 5.3 (damper is installed with duct upstream and downstream).