

3900 Dr. Greaves Rd.

Kansas City, MO 64030

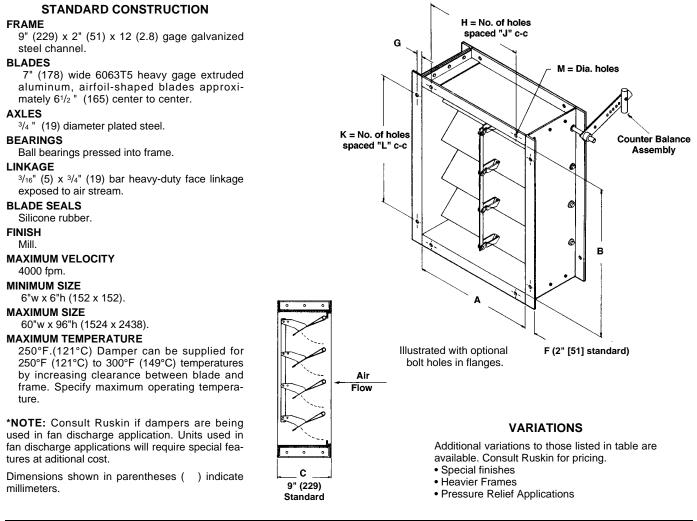
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## CBS92 HEAVY DUTY COUNTERBALANCED BACKDRAFT DAMPER

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FRAME		BLADE		AXLES		BEARINGS		LINKAGE		SEALS		ACCESSORIES (OPT)			
9" X 2" (229 X 51) 12 (2.8) GA. GALVA- NIZED		7" (178) WIDE .080" (2.1) THK. 6063T5 EXTRUDED ALUMINUM AIRFOIL		3/4" (19) DIA 'D' PLATED STEEL		BALLBEARING PRESSED INTO FRAME		FACE LINKAGE IN AIR STREAM (EXPOSED)		VINYL JAMB SEALS (OPT)		INTERNAL COUNTERWEIGHTS			
9" X 2" (229 X 51) 12 (2.8) 304SS			Î	<sup>3</sup> /4" (19) DIA. 'D' STN STL (OPT)		STN STL SLEEVE PRESSED INTO FRAME (OPT)		SIDE LINKAGE OUT OF AIR STREAM (EXTERNAL) (OPT)		SILICONE BLADE SEALS		BOLT HOLES ONE FLANGE			
9" X 2" (229 X 51) .125 (4) THICK FORMED ALUMINUM				<sup>3</sup> /4" (19) DIA. 'D' ALUMINUM		RE-LUBE BALL BEARING BOLTED TO FRAME (OPT)						BOLT HOLES BOTH FLANGES			
						SS SLEEVE BRG IN CAST HOUSING- BOLTED TO FRAME* (OPT)						1 <sup>1</sup> /2" (38) to 4" (102) FLANGES			

<b>Q</b> ΤΥ.				DIM	IENSIC	ONS				TEMP	TAG	COMMENTS		
	Α	В	F	G	н	J	к	L	м		TAG	COMMENTS		

# SUGGESTED SPECIFICATION

Furnish and install, at locations shown in plans or in accordance with schedules, industrial grade backdraft dampers meeting the following construction standards: Frame shall be minimum 9" deep x 2" (229 x 51) flanged 12 (2.8) gage galvanized steel channel. The blades shall be maximum 7" (178) wide, minimum .080 (2) thick, 6063T5 extruded aluminum airfoil shaped with integral structural reinforcing tube running full length of each blade. Damper blades shall be equipped with silicone rubber seals mechanically locked into extruded blade slots. Adhesive type seals are not acceptable. Axles shall be minimum 3/4" (19) diameter with machined edge to provide positive locking connection to blades. Full round axles are

not acceptable. Bearings shall be ball style pressed into frame. Linkage shall be minimum  ${}^{3}/{}_{16}$ " thick x  ${}^{3}/{}_{4}$ " (5 x 19) bar located on face of blade in airstream. Submittal must include leakage, pressure drop, and maximum pressure data based on AMCA Publication 500 testing. Damper shall be Ruskin model CBS92 backdraft damper.

#### ADD TO SPECIFICATION IF REQUIRED:

Dampers shall be equipped with vinyl jamb seals for low leakage application. Wind stop type seals are not acceptable.

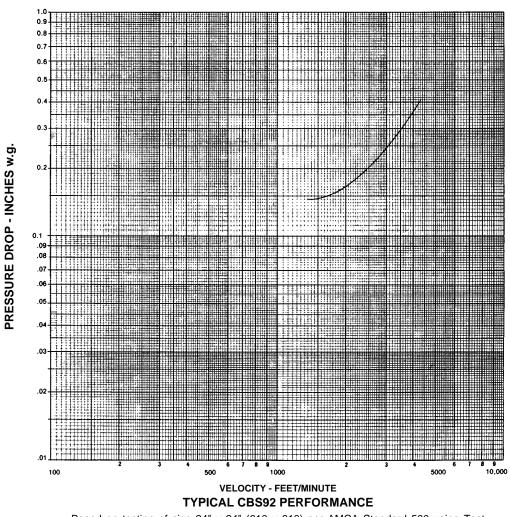
### **CBS92 PERFORMANCE DATA**

Damper	Maximum	Maximum	Leak with s	•	Leakage without seals*		
Width	System	System	%	CFM/	%	CFM/	
	Pressure	Velocity	max. flow	sq. ft.	max. flow	sq. ft.	
60" (1524)	5.0" w.g.	4000 fpm	0.34	13.5	1.00	40	
48" (1219)	8.0" w.g.	4000 fpm	0.34	13.5	1.00	40	
36" (914)	10.0" w.g.	4000 fpm	0.34	13.5	1.25	50	
24" (610)	12.0" w.g.	4000 fpm	0.39	15.5	1.50	60	
12" (305)	14.0" w.g.	4000 fpm	0.45	18.0	2.50	100	

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.

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

### DAMPER PRESSURE DROP



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