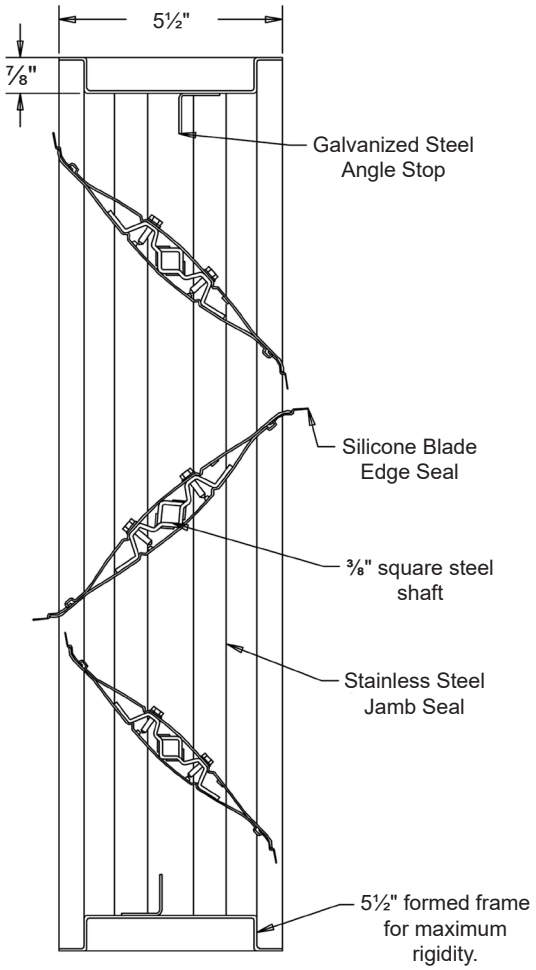
MODEL 515SAF - 516SAF

Steel Control Damper • 5½" Deep • 6⁹⁄₁₆" Airfoil Blades • Parallel (515) or Opposed (516) • 150°F Max Temperature

Standard Materials and Construction

FRAME: 5½" x ⅞" x 16-GA galvanized steel hat channel.
BLADE: Airfoil shaped, double skin galvanized steel construction, 6⁹⁄₁₆" wide.
LINKAGE: Plated steel tie bar and crank plates with stainless steel pivots contained in jamb.
BEARINGS: Heavy duty molded nylon.
AXLES: ⅜" square steel.
DRIVESHAFT: ⅜" square steel, extendable 6" beyond damper frame.
SEALS: Silicone on blade edges, and stainless steel at jambs.
STOPS: Galvanized steel angle at head and sill.
FINISH: Mill.



Options

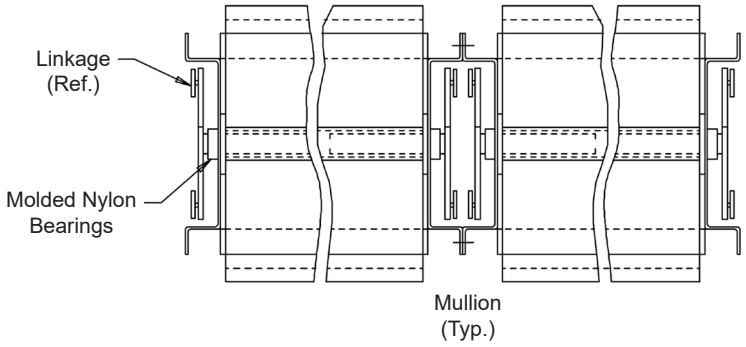
Exact Size
Material - 304 Stainless Steel
Face/Bypass - Vertical, Horizontal, or Perpendicular
Sleeve - Transition - Sideplate
Vertical Blades
Flange - Front, Rear, or Both
Blade Seal - Vinyl
Jamb Seal - Stainless Steel
Jackshafting
Actuators - Manual Quadrants, 120V, 24V, 230V or Pneumatic
Position Indication Switch - PK1200, Small Aux Switch, or Integral to Actuator
Transformers
Explosion Proof Housing
Pilot Positioner
Copper Tubbing
Tab-Lock Retaining Angles - 1 or 2 Sets
Bearings - OIB or Stainless Steel
Axle - Stainless Steel
Security Bars
Finishes - Baked Enamel, Baked Epoxy, or Prime Coat

Notes

1. ¼" nominal deduction will be made to the opening size given.
2. Depending upon damper height, a variable width blade may be required, which will extend to a maximum of 3¼" from either the front or back of the damper. Contact the factory if the exact dimensions of this variable blade are critical.
3. Shipping weight approximately 6.5 lbs./sq.ft.

Damper Sizes

Panels	Min Panel	Max Single Panel
Parallel Blade	8"W x 7"H	48"W x 72"H
Opposed Blade	8"W x 14"H	48"W x 72"H



Item #	Qty	Damper Size: Width	Damper Size: Height	Parallel Blades	Opposed Blades	Seals	Actuator Model	Act. Location: Interior	Act. Location: Exterior	Function: N.C.	Function: N.O.	Union Made
Arch. / Eng.:						EDR:		ECN:		Job:		
Contractor:												
Project:						Date:		DWN:		DWG:		

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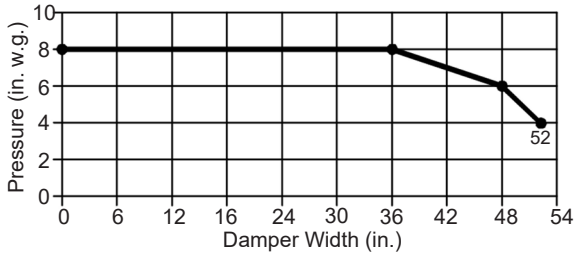
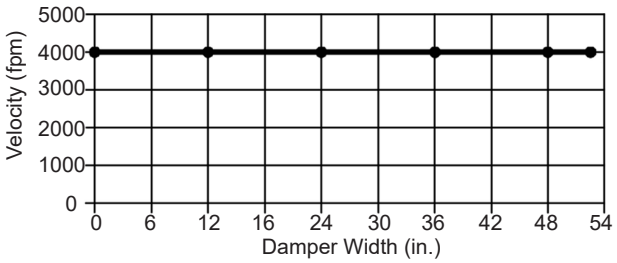
Pressure Limitations

The pressure limitations shown below are based on the design limits of the axles or blade deflection. Another model should be selected if pressure exceeds the values shown.

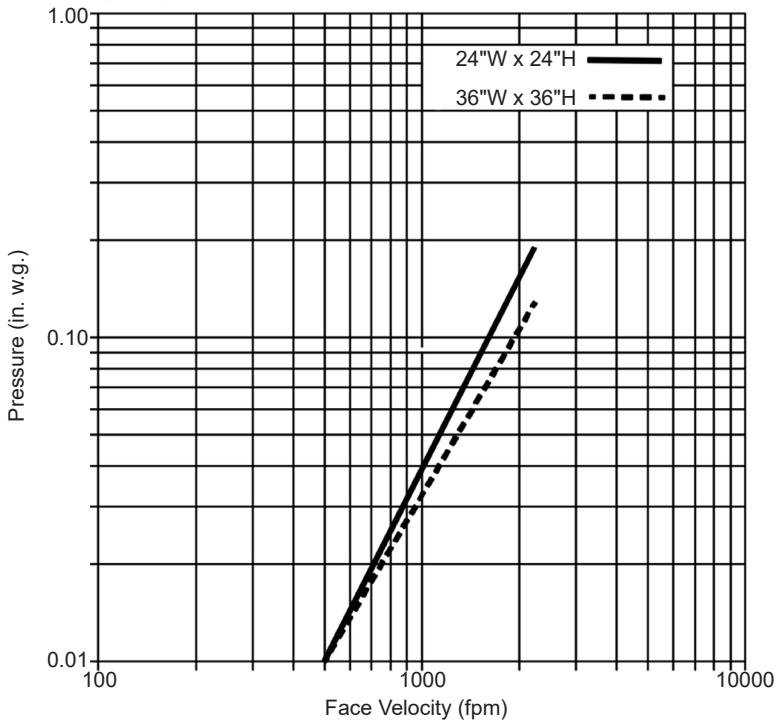




Pressure Drop

Pressure Drop Ratings are tested in accordance with AMCA Standard 500 using test set-up Fig. 5.3 for dampers installed with duct upstream and downstream. Static pressures are corrected to .075 lb./cu.ft. air density.

NOTE: Curves are shown for the two sizes indicated. Pressure Drops will be somewhat lower for larger sizes and somewhat higher for smaller sizes.



Air Leakage

Leakage for the Models 515SAF and 516SAF shall not exceed 4.0 CFM per sq.ft. at 1 in. w.g. differential pressure and at a temperature of 70°F. Data are based on a seating torque of 40 in. lbs. for dampers less than 4 sq.ft. in size. Dampers above 4 sq.ft., .5 in.lbs. per sq.ft. is applied to hold the damper in the closed position. Data is based on a 48" wide x 48" high sample tested in accordance with AMCA Standard 500 Figure 5.4 or 5.5.

Values shown in the note above are derived from tests performed in accordance with AMCA Standard 500 and are stated in SCFM at 1 in. w.g. Use the conversion factors in the table below for leakage values at greater pressures.

Pressure	Conversion Factor
2 in. w.g.	1.41
3 in. w.g.	1.73
4 in. w.g.	2.00