Model D395

Steel Control Damper • 4” Deep • Single Thickness Blade • Parallel or Opposed • Low Leakage

STANDARD CONSTRUCTION

FRAME: 16-GA galvanized steel, hat-shaped channel, 4” deep.
BLADE: 16-GA galvanized steel, on 6” centers.
LINKAGE: Pivots are ½” dia. plated steel. A ¼-20 set screw with locking patch locks the pivots to a .31” dia. aluminum rod. Pivots rotate in a celcon bearing. Blade brackets are 12-GA plated steel. Blade linkages are individually factory adjusted for maximum shut-off.
BEARINGS: Sintered bronze, oil impregnated.
AXLES: Plated steel, ½” dia.
DRIVESHAFT: ½” dia. plated steel, extendable 6”.
SEALS: Vinyl grip on blades, stainless steel on jambs.
FINISH: Mill.

OPTIONS

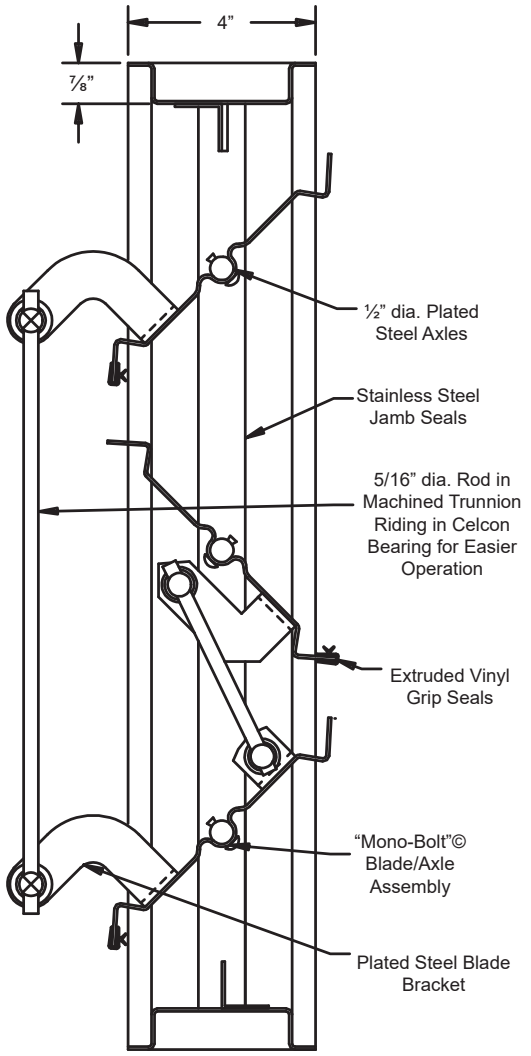
1 & 7/16” Flange Frame
Neoprene Blade Seals Only
13 GA Galvanized Steel Frame
Additional Drive Shafts
S.S. Drive Shafts Factory Joined Sections
Face & Bypass Dampers
In-jamb Linkage
Finishes - Baked Enamel, Kynar, or Anodize

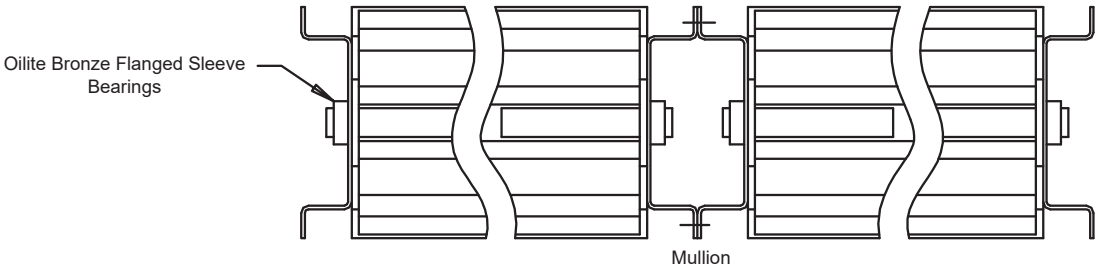
NOTES

1. ¼” nominal deduction will be made to the opening size given.
2. Dampers less than 11” high will be a single blade.
3. Dampers between the height of 11” and 14¾” will have two blades, opposed action only. Dampers less than 8¾” in height will be provided with a ⅝” x 2” x ⅝” extruded aluminum frame.
4. Damper is rated for systems up to 2,000 fpm or up to 4 in. w.g. If being used for applications beyond this, please advise when ordering.
5. Shipping weight approximately 6.5 lbs. per sq.ft.

DAMPER SIZES

Min Panel	Max Single Panel
6”W x 8¾”H	48”W x 72”H





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

In the interest of product development, Louvers & Dampers reserves the right to make changes without notice.

Louvers & Dampers
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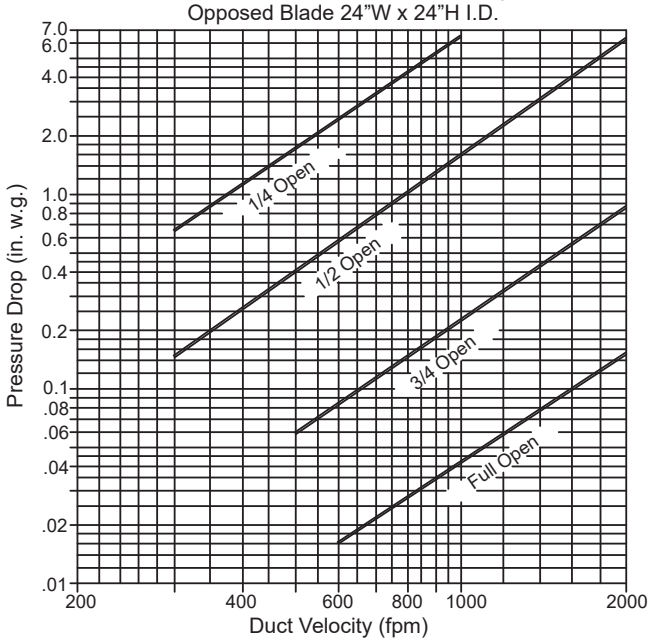
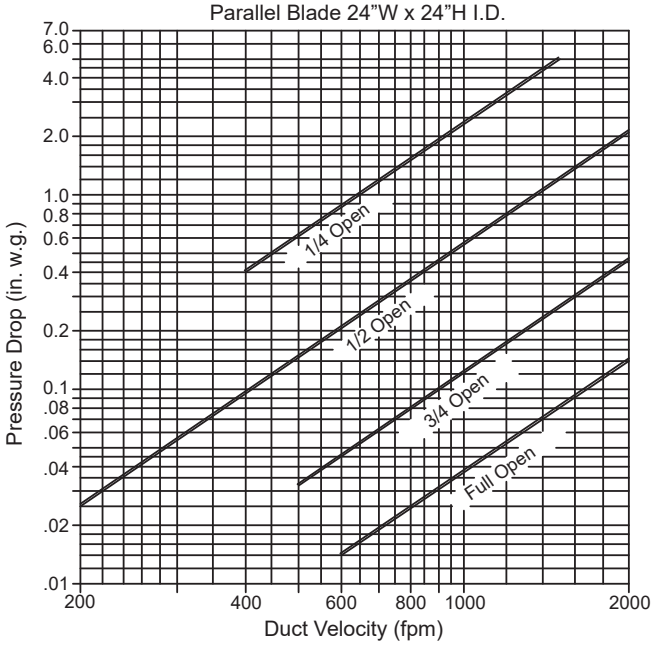
PRESSURE DROP

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

Pressure Drop vs. Duct Velocity
Opposed Blade 24”W x 24”H I.D.



Pressure Drop vs. Duct Velocity
Parallel Blade 24”W x 24”H I.D.



AIR LEAKAGE

Leakage Ratings are based on AMCA Standard 500 using test set-up Fig. 5.4. Data is based on a closing torque of 5 in-lbs/sq.ft. with a minimum of 25 in-lbs of closing torque applied to damper operating shaft, regardless of damper size.

Total CFM Air Linkage at 1 in. w.g.
Differential Through Closed Damper.

Height \ Width	12”	24”	36”	48”
12”	3	6	9	12
18”	5	9	14	18
24”	6	12	18	24
30”	8	15	23	30
36”	9	18	27	36
42”	11	21	32	42
48”	12	24	36	48
54”	14	27	41	54
60”	15	30	45	60
66”	17	33	50	66
72”	18	36	54	72

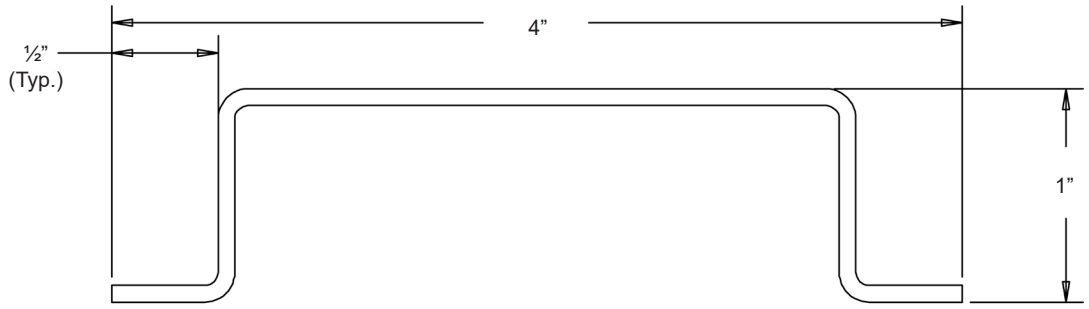
Air leakage quantities shown above are corrected to standard air density. Air leakage is based on operation between 50°F -104°F.

Air Leakage Correction Factors

Blade Length Limit	Pressure (in. w.g.)	Conversion Factor
48” or less	2	1.27
	3	1.60
	4	1.90

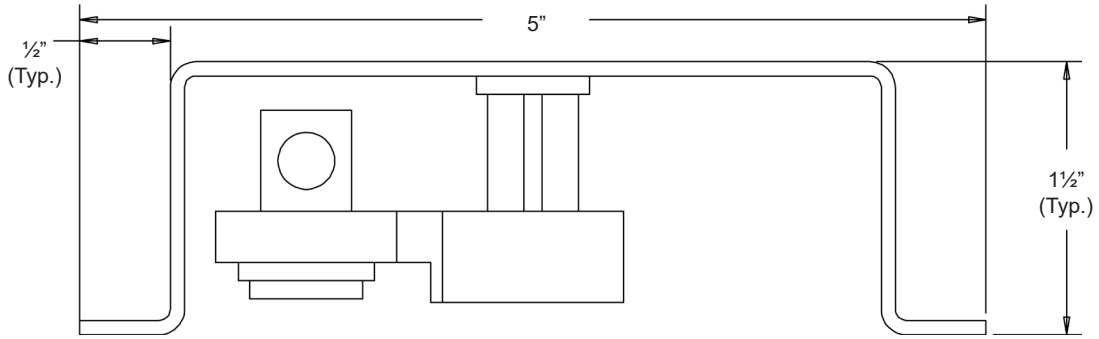
Use of correction factors will give leakage values at greater that 1” pressures.

OPTIONAL DAMPER FRAMES FOR USE WITH AIRFOIL-BLADE STEEL CONTROL DAMPERS

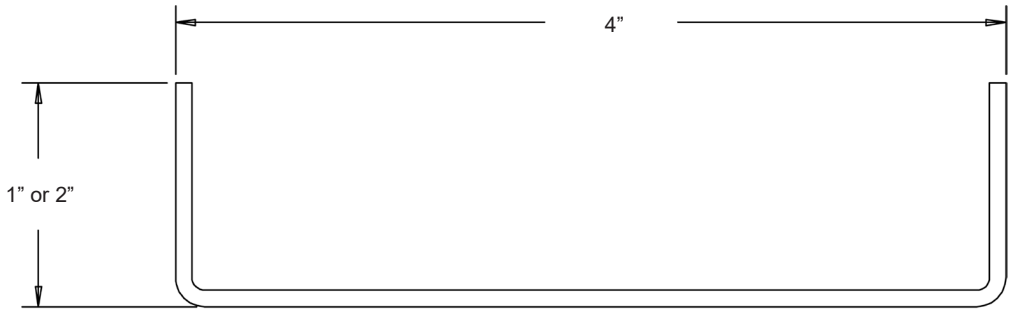


Hat-shaped Frame

Hat-shaped frames are fabricated to 14 GA. steel when a “double-sealed” press fit bearing is used. With flange sleeve oilitebearings, frame thickness can increase to 12 GA. thickness.



Hat-shaped Frame with In-jamb Linkage



Channel Frame

Channel frames are fabricated to 14 GA. steel when a “double-sealed” press fit bearing is used. With flange sleeve oilitebearings, frame thickness can increase to 10 GA. thickness.