For use up to 20 in. w.g. static pressure

STANDARD MATERIALS AND CONSTRUCTION

FRAME: 2" x 10" x 2", 10 GA. galvanized steel formed channel frame. **BLADE:** 12 GA. galvanized steel, airfoil design, to a maximum 48" length.

10 GA. galvanized steel, airfoil design, to a maximum 60" length.

SHAFT: 3/4" dia. plated cold-finished steel, corrosion resistant, for up to 48"

in length. 1" dia. for up to 60" length.

BEARINGS: Stainless steel flanged sleeve, bolted to the frame.

LINKAGE: 1/2" dia. inter-connecting rod with trunnion pivot fasteners, located

in iamb.

OPERATOR: Manual hand quadrant or lever arm for motor actuator. Specify

type when ordering.

FINISH: Mill. TEMP. LIMIT: 450°F

Consult the factory for temperature limits over 450°F.

OPTIONS

Stuffing boxes and replaceable packing

Jamb Seals - Stainless steel

Blade Edge Seals - Stainless steel

Flanges other than the standard 2" wide

Finishes - Acrylic, baked enamel, etc.

Perimeter holes: one flange or two flanges

Other types of bearings

Materials - Full stainless steel construction, extruded aluminum,

galvanized steel, etc.

NOTES

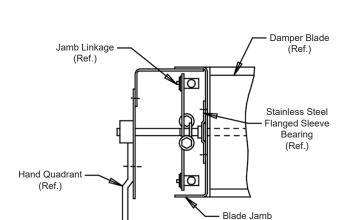
1. 1/4" nominal deduction will be made to the opening size given.

2. Construction may be with other materials when required to meet special conditions, such as: temperature, pressure, velocity, system environment, or other specifications.

3. Approximate shipping weight is 18 lbs./sq.ft.

DAMPER SIZES

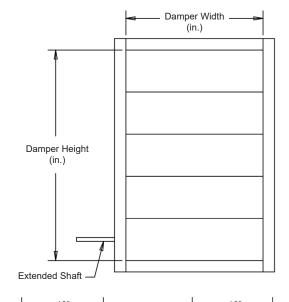
Min. Size	Max. Size
6"W x 6"H (Single Blade)	00334 0034
6"W x 12"H (Opposed)	60"W x 96"H



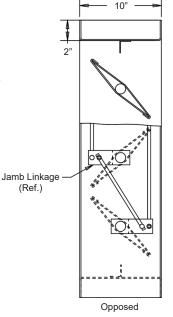
Jamb Linkage Detail Opposed linkage with

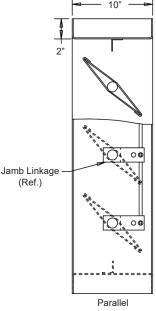
(Ref.)

Hand Quadrant. (Shown)

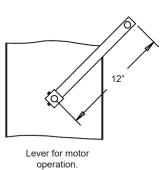


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Not to scale.



AIR LEAKAGE DATA

Air leakage quantities shown in the chart are results of tests per AMCA Standard 500 and are shown at 1 in. w.g. differential pressure and are corrected to .075 lb./cu.ft. air density.

Air Leakage (Total CFM)

		Damper Width (in. I.D.)													
		12" 18" 24" 30" 36" 42" 48" 5								60"					
	12"	5	7	10	12	14	17	19	22	24					
.D.)	24"	10	14	19	24 29		34	39	43	48					
(in	36"	14	22	29	36	43	51	58	65	72					
Height	48"	19	29	39	48	58	68	77	87	96					
	60"	24	36	48	60	72	84	96	108	121					
du	72"	29	43	58	72	87	101	116	130	145					
Damper	84"	34	51	68	84	101	118	135	152	169					
	96"	39	58	77	96	116	132	154	174	193					

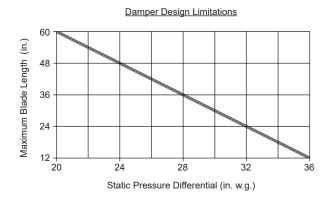
For determining leakage values greater than 1 in. w.g. to a maximum of 20 in. w.g., use the multiplier correction chart below.

Static Pressure (in.)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Multiplier Correction Factor	1.3	1.6	1.9	2.2	2.4	2.6	2.8	3.0	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.1	4.2	4.4	4.5

Air leakage ratings are based on AMCA Standard 500, using test set-up Fig. 5.4 with a damper closing torque applied to the damper of 75 in. lbs./sq.ft. of damper face area for a 60" x 96", with a minimum of 55 in. lbs./sq.ft. of a damper area for a size 60" x 8".

Damper air leakage shown is based upon publishing only the most conservative results for the Model ID51 industrial damper for an entire range of damper sizes.

To ensure proper damper operation and air leakage performance for this damper design, the static pressure and blade length limits shown below provide the necessary information and show the relationship between a damper's costs and its applications.

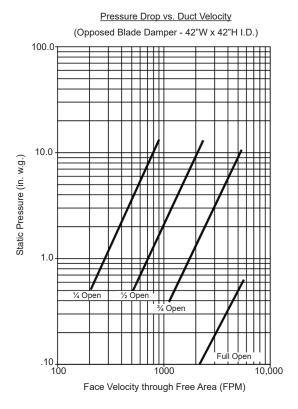


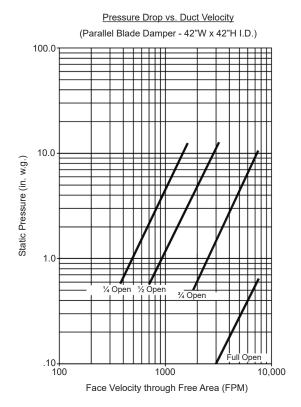
This damper's design at a blade length of 60° has a maximum allowable blade deflection of L / 360 for the static pressure indicated on the chart. At reduced blade lengths, higher static pressure limits can be attained without sacrificing damper operating performance characteristics.

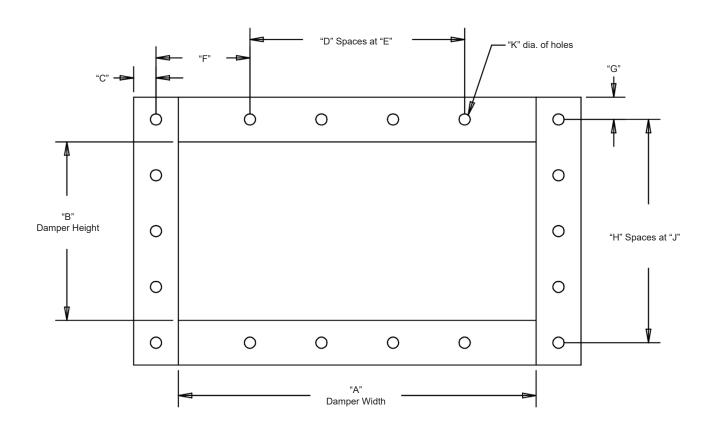
Industrial Damper ▲ 10" Deep ▲ Airfoil Blades ▲ Channel Frame ▲ Galvanized Steel ▲ 450°F Max Temperature

PRESSURE DROP DATA

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







Arch. / Eng.: Contractor:		Damper Size					Damper Specifcs EDR:						Position		Actuator Job:		Union Made	
Item #	Qty	"A" Width	"B" Height	"C"	"D"	"E"	"F"	"G"	"H"	"]"	"K"	"M"	Para Bla	Oppo ade	Hand Quad	Motor Lever Arm		



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