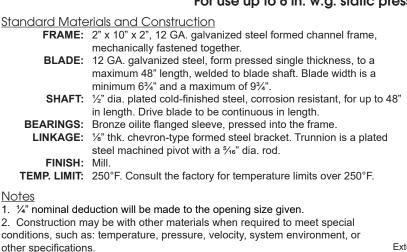
Industrial Damper • 10" Deep • Single Thickness Blades • Channel Frame • Galvanized Steel • 250°F Max Temperature

For use up to 6 in. w.g. static pressure at 2500 FPM.



 Velocities above 2500 FPM to 4000 FPM maximum shall require a double set of face linkages.

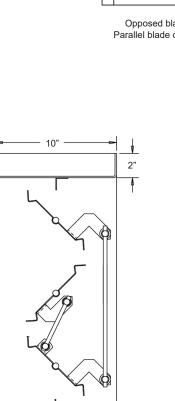
4. Approximate shipping weight is 18 lbs./sq.ft.

Options

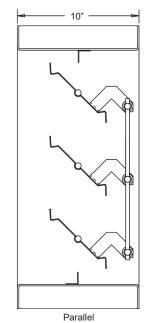
Stuffing boxes and replaceable packing Jamb Seals - Stainless steel Blade Edge Seals - Neoprene Flanges other than the standard 2" wide, up to 3½" Finishes - Acrylic, baked enamel, etc. Perimeter holes: one flange or two flanges External linkage Other types of bearings Materials - Full stainless steel construction, extruded aluminum, galvanized steel, etc.

Damper Sizes

Min. Size	Max. Size						
6"W x 6¾"H	60"W x 72"H						
(Single Blade)	(w/ Seals)						
6"W x 15"H	60"W x 96"H						
(Opposed)	(w/o Seals)						



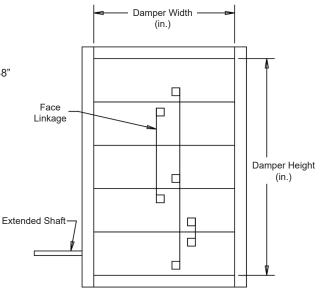
Opposed



Not to scale.



For handwritten orders, use the schedule block on page 4. In the interest of product development, Arrow United reserves the right to make changes without notice. 450 Riverside Dr • Wyalusing PA, 18853 • Phone 570-746-1888 • Fax 570-746-9286 AUI-04-03-03



Opposed blade operation shown. Parallel blade operation also available.

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<u>Air Leakage Data</u>

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.

		<u>Air Leakage</u> (Total CFM)												
		Damper Width (in.)												
12" 18" 24" 30" 36" 42"														
(in.)	12"	7	10	13	17	20	23	27						
Damper Height (ir	24"	13	20	27	33	40	47	54						
	36"	20	30	40	50	60	70	80						
	48"	27	40	54	67	80	94	107						
	60"	33	50	67	84	100	117	134						
Ő	72"	40	60	80	100	121	141	161						

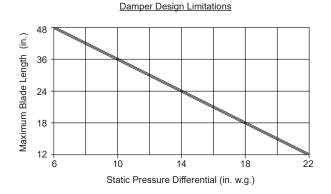
For determining leakage values greater than 1 in. w.g. to a maximum of 6 in. w.g., use the multiplier correction chart below.

Static Pressure (in.)	2	3	4	5	6
Multiplier Correction Factor	1.4	1.7	2.1	2.5	2.8

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 20 in. lbs./sq.ft. of damper face area for a 48" x 72", with a minimum of 40 in. lbs./sq.ft. of a damper area for a size 48" x 6³/₄".

Damper air leakage shown is based upon publishing only the most conservative results for the Model 421 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.

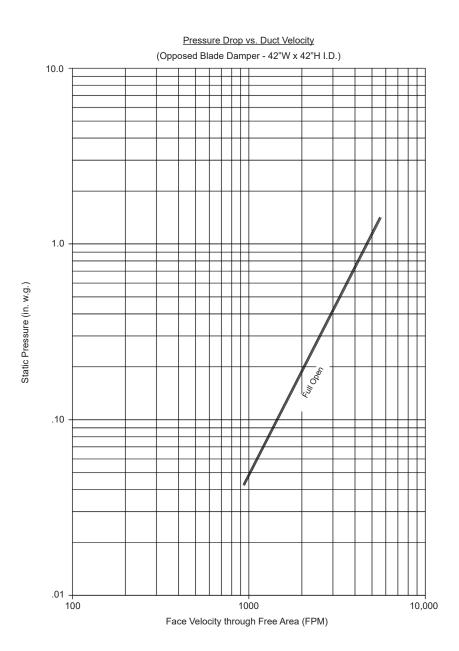


This damper's design at a blade length of 48" has a maximum allowable blade deflection of L / 360 for the static pressure indicated on the chart. At reduced blade lengths, higher static pressure limits can be attained without sacrificing damper operating performance characteristics.



Pressure Drop Data

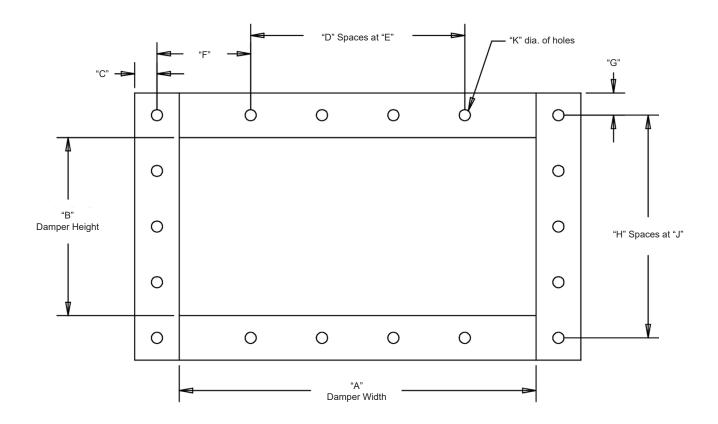
Pressure drop ratings are based on AMCA Standard 500, using test set-up figure 5.3 for a damper installed with duct upstream and downstream. Static pressures are corrected to .075 lb./cu.ft. air density.





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																	WETAL WORK
Item #	Qty	°A″ Width	°B″ Height	"C″	"D″	`Е″	"F″	"G″	"H″	"J″	`к″	"M″	Para	Орро	Hand Quad	Motor Lever Arm	
		Damp	er Size	Damper Specifcs					Blade Position		Actuator		Union Made				
Arch. /	Arch. / Eng.:			EDR: EC					ECN:			Job:					
Contractor:																	
Pr	Project:		Date:					DWN:					DWG:				

