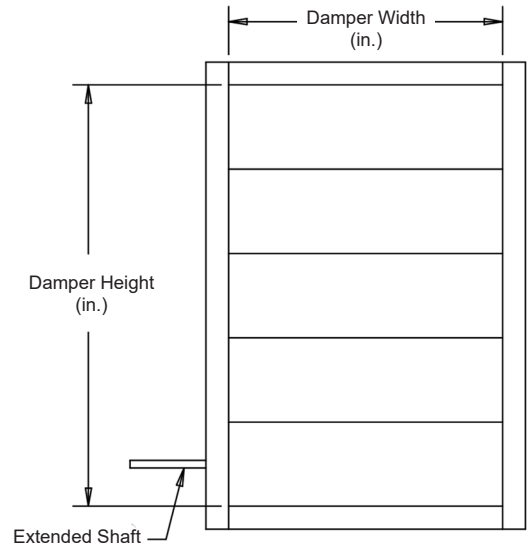


Industrial Damper • 10" Deep • Airfoil Blades • Channel Frame • Galvanized Steel • 450°F Max Temperature

For use up to 12 in. w.g. static pressure

Standard Construction and Materials

- FRAME:** 2" x 10" x 2", 12 GA. galvanized steel formed channel frame.
- BLADE:** 16 GA. galvanized steel, airfoil design, to a maximum 48" length.
12 GA. galvanized steel, airfoil design, to a maximum 60" length.
- SHAFT:** 3/4" dia. plated cold-finished steel, corrosion resistant, up to 60" in length.
- BEARINGS:** Stainless steel flanged sleeve, bolted to the frame.
- LINKAGE:** 1/2" dia. inter-connecting rod with trunnion pivot fasteners, located in jamb.
- 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

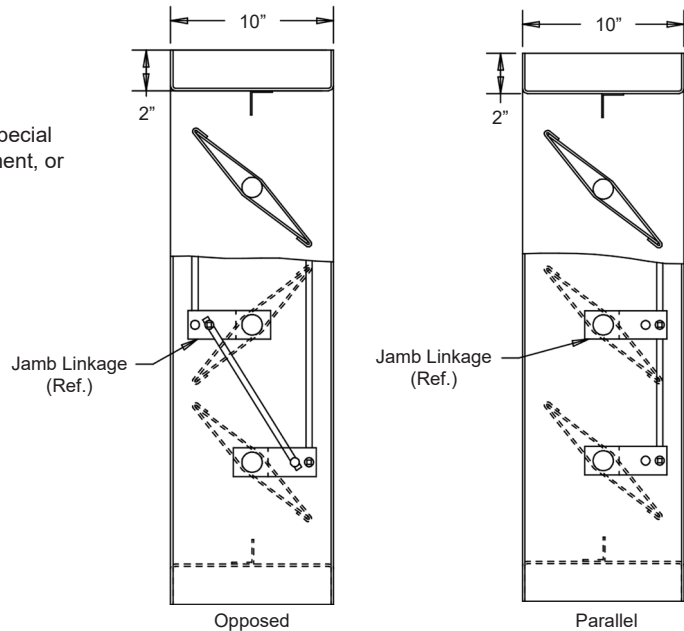
- Stuffing boxes and replaceable packing
- Jamb Seals - Stainless steel
- Blade Edge Seals - Stainless steel
- Flanges other than the standard 2" wide
- Finishes - Acrylic, baked enamel, etc.
- Perimeter holes: one flange or two flanges
- Other types of bearings
- Materials - Full stainless steel construction,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

Notes

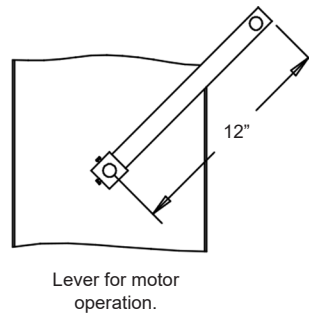
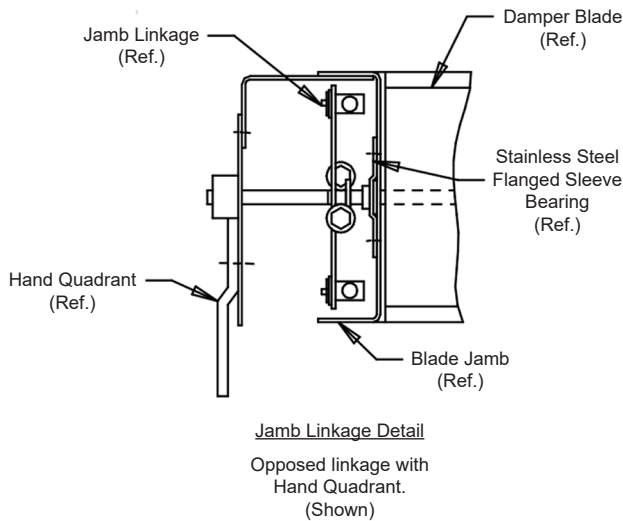
1. Nominal deductions will be made to the opening size given.
2. Construction may be with other materials when required to meet special conditions, such as: temperature, pressure, velocity, system environment, or other specifications.
3. Approximate shipping weight is 18 lbs./sq.ft.

Damper Sizes

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



Not to scale.



For handwritten orders, use the schedule block on page 4.

In the interest of product development, Cesco Products reserves the right to make changes without notice.

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

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"	54"	60"
Damper Height (in. I.D.)	12"	6	8	11	14	17	19	22	25	28
	24"	11	17	22	28	33	39	44	50	55
	36"	17	25	33	41	50	58	66	74	83
	48"	22	33	44	55	66	77	88	99	110
	60"	28	41	55	69	83	96	110	124	138
	72"	33	50	66	83	99	116	132	149	165
	84"	39	58	77	96	116	135	154	173	193
	96"	44	66	88	110	132	154	176	198	220

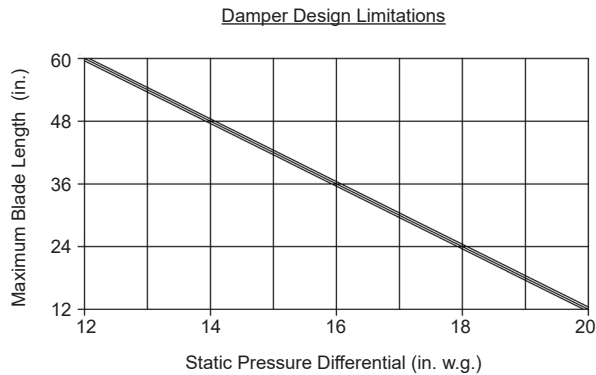
For determining leakage values greater than 1 in. w.g. to a maximum of 12 in. w.g., use the multiplier correction chart below.

Static Pressure (in.)	2	3	4	5	6	7	8	9	10	11	12
Multiplier Correction Factor	1.5	2.0	2.3	2.7	3.0	3.3	3.6	3.9	4.3	4.6	5.0

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 38 in. lbs./sq.ft. of damper face area for a 60" x 96", with a minimum of 45 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 PC50 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 characteristic.

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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.

