

Industrial Damper

GI42

10" Deep • Single Thickness Blade • 250°F Max. Temperature • Up to 8 in.wg Static Pressure at 2500 fmp

STANDARD CONSTRUCTION

- FRAME:** 2" x 10" x 2" - 12-GA galvanized steel formed channel frame, mechanically fastened together
- BLADE:** 12-GA galvanized press formed single thickness, welded to shaft; Blade width 6¾" - 9¾"
- SHAFTS:** ¾" dia. corrosion resistant, plated cold finished steel stub; Drive blade to be continuous length
- BEARINGS:** Bronze oilite flanged sleeve pressed into frame
- LINKAGE:** Chevron type formed bracket of ½" thick steel; Trunnion is a machined pivot of plated steel with 5/16" dia. rod
- FINISH:** Mill
- TEMP. LIMITS:** 250°F

OPTIONS

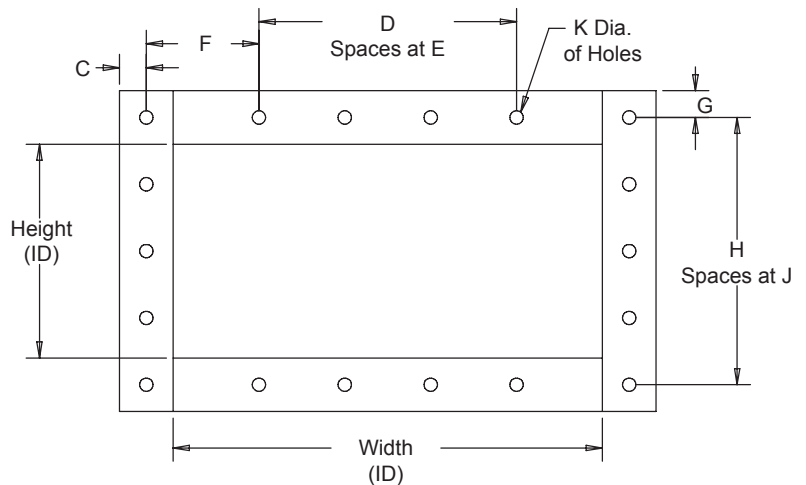
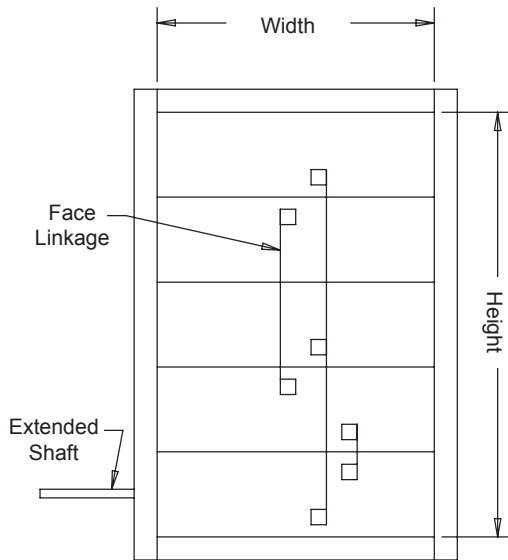
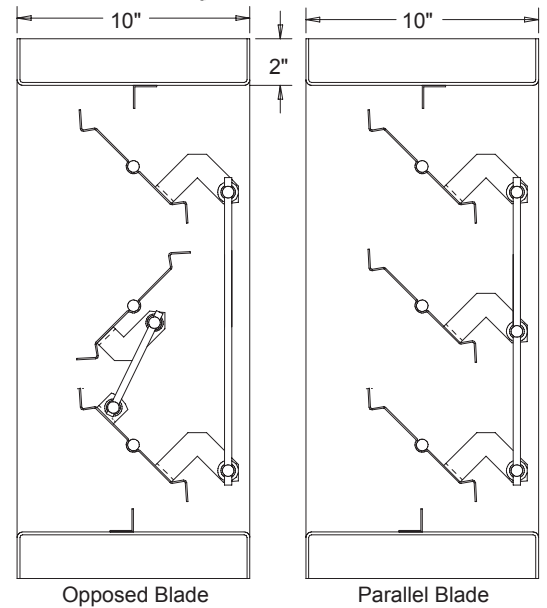
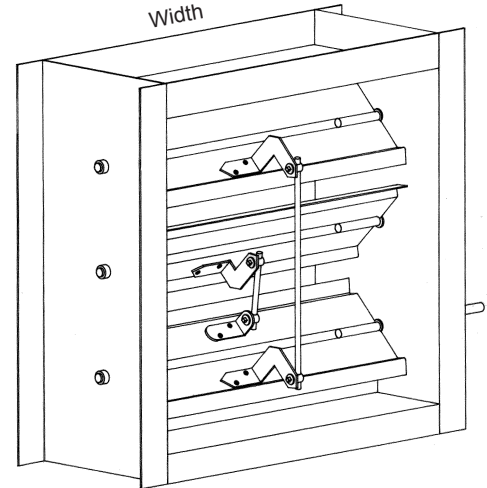
- Neoprene Blade Edge Seals
- Stainless Steel Jamb Seals
- Variable Flange Sizes
- Perimeter Holes - One Flange or Both Flanges
- External Linkage
- Other Bearings
- Other Materials

NOTES

1. "A" width and "B" height are opening dimensions. Dampers are provided by inside dimension.
2. Velocities above 2500 fpm to 4000 fpm maximum shall require a double set of face linkage.

DAMPER SIZE

Panels	Min Panel (ID)	Max Single Panel (ID)
GI42	6"W x 6¾"H Single Blade 6"W x 15"H Opposed Blades	48"W x 96"H without Seals 48"W x 72"H with Seals



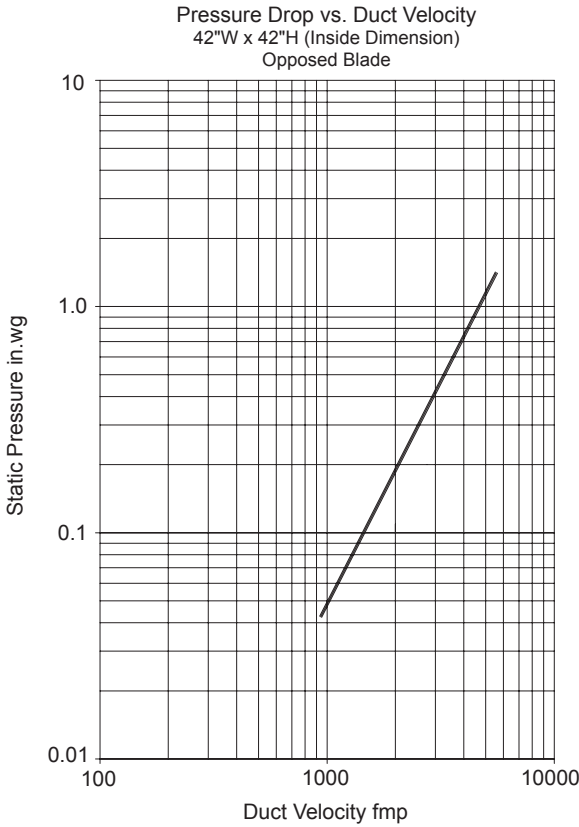
Optional Flange with Holes
(Must Specify Dimensions C-K)

Louvers & Dampers
A Microtek Company

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Free Area:

Pressure drop curves listed are based on AMCA 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.



Air Leakage:

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

		Air Leakage cfm						
		Width						
Height		12	18	24	30	36	42	48
	12	7	10	13	17	20	23	27
	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
	72	40	60	80	100	121	141	161

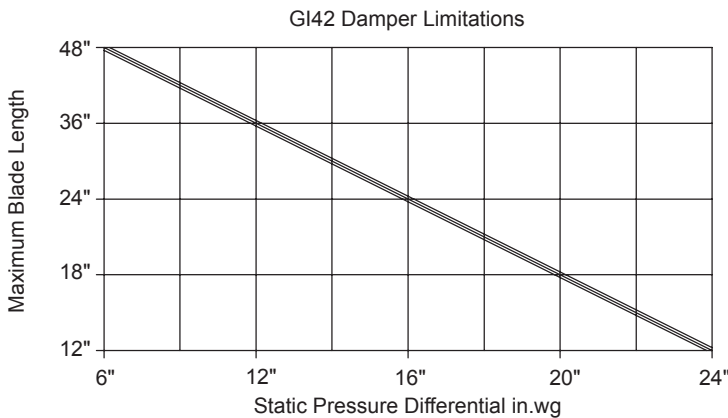
For determining leakage values greater than 1 in.wg to a maximum of 8 in.wg use the multiplier correction chart below

Static Pressure	2	3	4	5	6	7	8
Multiplier Correction Factor	1.4	1.7	2.1	2.5	2.8	3.2	3.6

Air leakage ratings are based on AMCA Standard 500 using test set up 5.4 with a damper closing torque applied to the damper of 25 in.lbs/sq.ft of damper area for a size 48"W x 72"H, with a minimum of 45 in.lbs/sq.ft. of damper area for a size 48"W x 6¾"H.

Damper air leakage shown is based upon publishing only the most conservative leakage results for the L&D model GI42 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/blade length limits shown provide the user with this information and in addition provides a relationship between damper cost and the application.



The GI42 damper design at a blade length of 48" has a maximum allowable blade deflection of L/360 for the static pressure indication on the chart. At reduced blade lengths higher static pressure limits can be attained without sacrificing damper operating and performance characteristics.