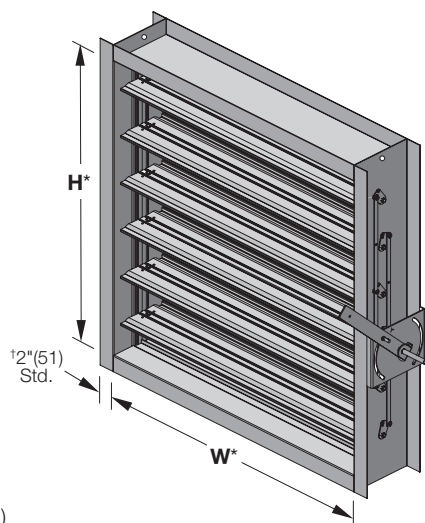
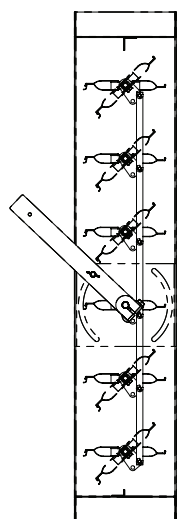




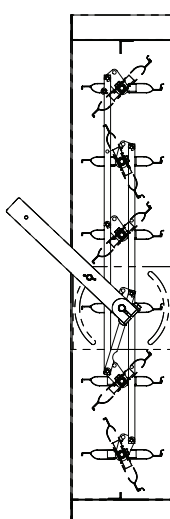
AC-91
(standard)

Options

- **Factory-mounted electric or pneumatic actuator**
- **Type-304 Stainless steel construction**
- **No blade edge seals**
- **Low leakage seals:** Silicone blade edge seals integrally rolled and are mechanically fastened to blade and stainless steel jamb seals
- **12 gauge (2.8) frame**
- **High temperature construction**
- **Vertical mounted blades with thrust washers**
- **Bolt holes in damper frame:**
 - One side
 - Both sides
- **Extended perimeter mounting flange**



AC-91
(Opposed Action)



AC-92
(Parallel Action)

AC-91 and AC-92 industrial control dampers employ double skin airfoil blades and a rugged flanged frame for automatic air control and manual balancing in medium to high pressure applications.

Ratings

Damper Width	Maximum System Pressure	Maximum System Velocity
12" (305)	9.0 in. wg. (2.2 kPa)	4,000 fpm (20.3 m/s)
24" (610)	8.0 in. wg. (2.0 kPa)	4,000 fpm (20.3 m/s)
36" (914)	6.0 in. wg. (1.5 kPa)	3,500 fpm (17.8 m/s)
48" (1219)	4.5 in. wg. (1.1 kPa)	3,000 fpm (15.2 m/s)

**Leakage:

4.2 cfm/ft² @ 2.0 in. wg. (0.02 m³/s/ m² @ 0.5 kPa)
 6.4 cfm/ft² @ 4.0 in. wg. (0.03 m³/s/ m² @ 1.0 kPa)
 17.8 cfm/ft² @ 8.0 in. wg. (0.09 m³/s/ m² @ 2.0 kPa)

Temperature: -25°F to 250°F (-32°C to 121°C) available up to 450°F (232°C) when required – consult with Pottorff

** Results based upon a 36" × 48" (914 × 1219) damper.

Standard Construction

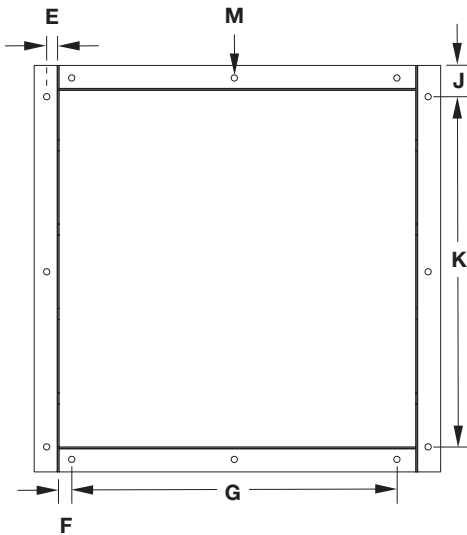
- Frame:** 8" × 2" × 14 ga. (203 × 51 × 2) galvanized steel channel
- Blades:** 6" × 14" gauge (152 × 2.0) equivalent galvanized – steel airfoil. Parallel (model AC-91) or opposed (model AC-92) action
- Axles:** 1/2" (13) diameter plated steel
- Linkage:** Concealed in frame
- Bearings:** Stainless steel sleeve-type, pivot in bushing, press fit into frame
- Control Shaft:** 1/2" × 6" (13 × 152) round drive axle with shaft support bracket and bearing mounted to damper frame with factory mounted/welded manual locking quadrant
- Lifting Lugs:** 7/8" (22) diameter, one on each jamb of frame
- Minimum Size:** AC-91 (one blade): 8" × 6" (203 × 152)
AC-92 (two blades): 8" × 10" (203 × 254)
- Maximum Size:** Single Section: 48" × 96" (1219 × 2438)
Multiple sections: Unlimited

NOTE: Dimensions in parentheses () are millimeters.
Information is subject to change without notice or obligation.

AC-91 and AC-92 Bolt Hole Dimensions

AC-91, AC-92

Industrial Control Damper
Airfoil Blade

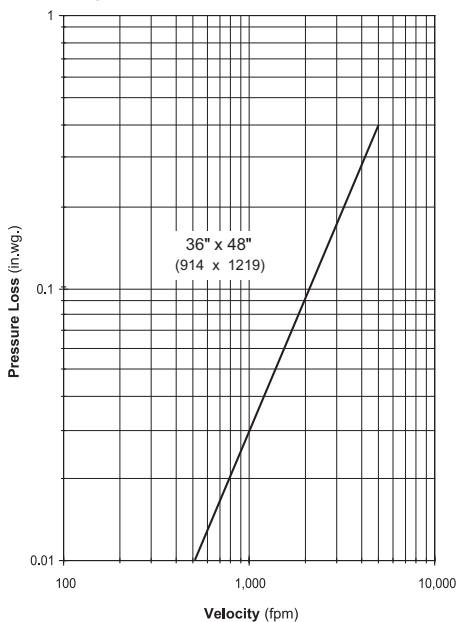


Dimension	Description
M _____ inches	Hole Diameter
E _____ inches	Centerline of Bolt Hole from inside Edge of Frame
F _____ inches	First/Last Hole in Head/Sill
G ____ @ ____ (x) inches	Number of Holes/Spacing in Head/Sill
J _____ inches	First/Last Hole in Jamb
K ____ @ ____ (z) inches	Number of Holes/Spacing in Jamb

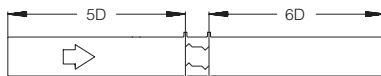
Airflow Performance Data

Pressure Loss vs. Velocity

Figure 5.3 — Ducted Inlet and Outlet



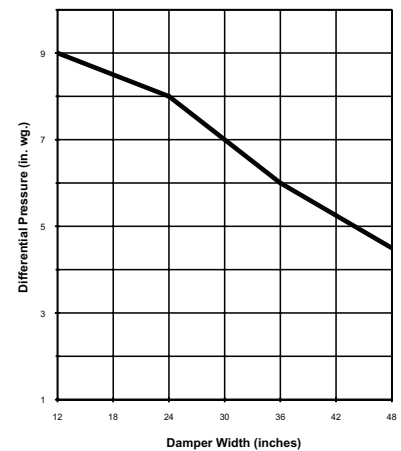
Pressure drop testing was performed in accordance with AMCA Standard 500-D using the configuration shown. All data has been corrected to represent air density of 0.075 lb/ft. Actual pressure drop in any ducted HVAC system is a combination of many elements. This information, along with analysis of other system influences, should be used to estimate actual pressure losses for a damper installed in a given HVAC system.



Ducted Inlet and Outlet

AMCA Figure 5.3 illustrates a fully ducted damper. This configuration represents the lowest pressure drop of the three test configurations because entrance and exit losses are minimized by straight duct runs upstream and downstream of the damper.

Pressure Limitations



Velocity Limitations

