

# Steel Control Damper

# GD26/GD27

5½" Deep • Airfoil Blade • 150°F Max Temperature • Parallel or Opposed Blade • Steel Control Damper

## STANDARD CONSTRUCTION

- FRAME:** 5½" x 7⁄8" x 16-GA galvanized steel hat channel
- BLADE:** Airfoil shaped, double skin galvanized steel construction, 6-9/16" wide
- SEALS:** Silicone on blade edges, and stainless steel at jamb
- BEARINGS:** Heavy duty molded nylon
- STOPS:** Galvanized steel angle at head and sill
- IN-JAMB LINKAGE:** Plated steel tie bar and crank plates, and stainless steel pivots
- FINISH:** Mill
- ACTUATOR:** 6" extended shaft

## OPTIONS

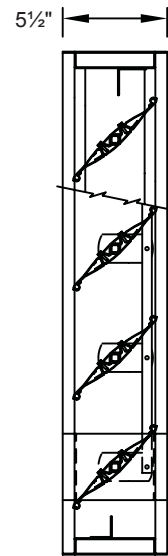
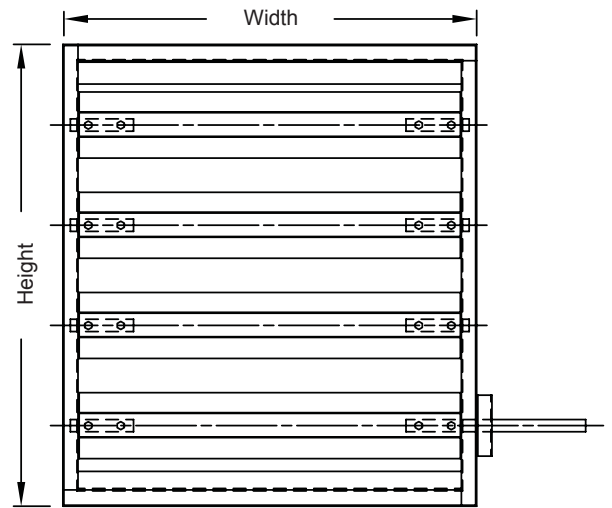
- Exact Size
- Face/Bypass - Vertical, Horizontal, or Perpendicular
- Sleeve - Transition - Sideplate
- Vertical Blades
- Flange - Front, Rear, or Both
- Mounting Holes
- Blade Seal - Vinyl
- Jamb Seal - Stainless Steel
- Jackshaftering
- Actuators - Manual Quadrants, 120V, 24V, 230V or Pneumatic
- Position Indication Switch - PK1200, Small Aux Switch, or Integral to Actuator
- Transformers
- Explosion Proof Housing
- Pilot Positioner
- Copper Tubbing
- Tab-Lock Retaining Angles - 1 or 2 Sets
- Bearings - OIB or Stainless Steel
- Linkage - On Blade
- Axle - Stainless Steel
- Assorted Screens
- Filter Racks - 1" or 2"
- Security Bars
- Finishes - Baked Enamel, Baked Epoxy, or Prime Coat

## NOTES

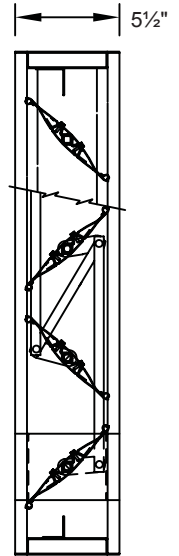
1. "A" width and "B" height are opening dimensions. Dampers are provided ¼" undercut.
2. Depending upon damper height, a variable width blade may be required, which will extend to a maximum of 3¼" from either the front or back of the damper. If the exact dimensions of this variable blade is critical contact the factory.
3. Dampers more than one panel wide operated with one actuator must be jackshaftered.
4. Dampers may be installed vertically or horizontally, but we do not recommend installation with the blades in the vertical position.

## DAMPER SIZE

Panels	Min Panel	Max Single Panel
GD26 Parallel Blade	8"W x 8"H	48"W x 72"H
GD27 Opposed Blade	8"W x 16"H	48"W x 72"H



**GD26**  
Parallel View

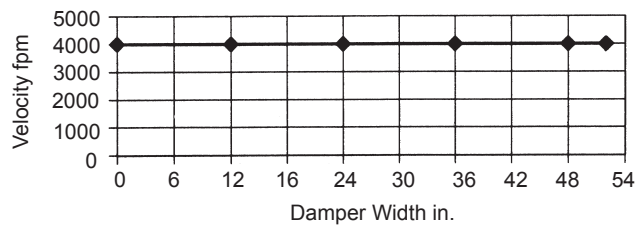
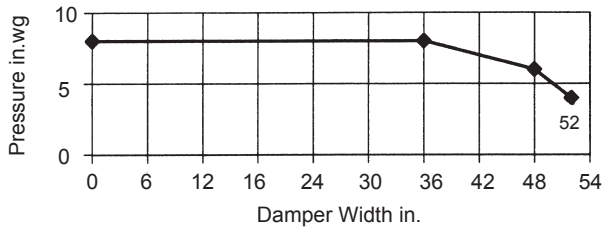


**GD27**  
Opposed View

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**Pressure Limitations:**

The pressure limitations shown below are based on the design limits of the axles or blade deflection. Another model should be selected if pressure exceeds the values shown.



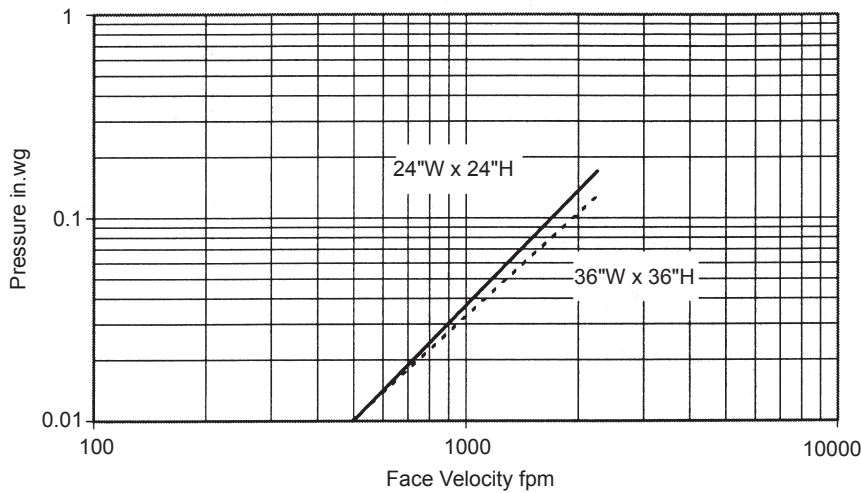
**Torque:**

Differential Pressure	in. lbs./sq.ft. required
2 in.wg	5
4 in.wg	10
6 in.wg	15

**Pressure Drops: Typical Performance Curve**

Tested per AMCA Standard 500; Figure 5.3. Size tested: 24"W x 24"H and 36"W x 36"H.

Note: Curves are for the two sizes indicated. Pressure drops will be somewhat lower for larger sizes and somewhat higher for smaller sizes.



**Leakage:**

Leakage for the GD26/GD27 shall not exceed 4.0 CFM per sq.ft. at 1 in.wg differential pressure and a temperature of 70°F with a minimum of .85" pounds of torque applied to the damper shaft. Data based on a 48" square sample tested in accordance with AMCA Standard 500, Figure 5.4 or 5.5.

Values shown in the note above are derived from tests performed in accordance with AMCA Standard 500 and are stated in SCFM at 1 in.wg. For leakage values at greater pressures use the conversion factors in the table below.

Pressure	Conversion Factor
2 in.wg	1.41
3 in.wg	1.73
4 in.wg	2.00