

# Steel Control Damper

# GD1/GD2

Single Thickness Blade • 200°F Max Temperature • Parallel or Opposed Blade • Steel Control Damper

## STANDARD CONSTRUCTION

- FRAME:** 5½" x 7⁄8" x 16-GA galvanized steel hat channel; Flat 16-GA galvanized head and sill for maximum free area on dampers < 14" high
- BLADES:** 16-GA galvanized steel, 6" nominal width
- AXLES:** Plated steel stub
- BEARINGS:** Heavy duty molded nylon
- LINKAGE:** Plated steel angle and crank plates with stainless steel pivots, in-jamb type
- STOPS:** 18-GA galvanized steel angles at head and sill
- ACTUATOR:** ½" dia. removable extended shaft for single and double wide units; On three or more panel wide units without jackshafting, blade brackets will be the standard for external actuator for installation
- FINISH:** Mill

## OPTIONS

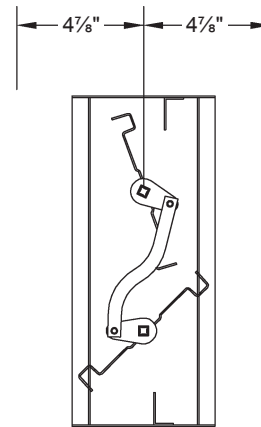
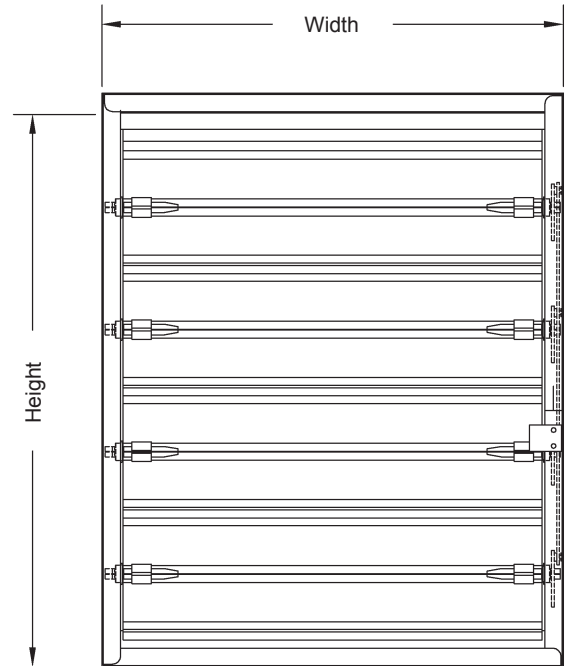
- Exact Size
- Face/Bypass - Vertical, Horizontal, or Perpendicular
- Sleeve - Transition - Sideplate
- Material - 304 SS or 316 SS
- Vertical Blades
- Flange - Front, Rear, or Both
- Mounting Holes
- Blade Seal - Vinyl, Santoprene, or Silicone
- Jamb Seal - Stainless Steel
- Jackshafting
- Actuators - 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
- Axle - Stainless Steel
- Assorted Screens
- Filter Racks - 1" or 2"
- Security Bars
- Finishes - Baked Enamel, Baked Epoxy, or Prime Coat

## NOTES

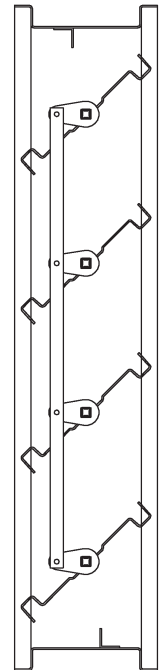
1. "A" width and "B" height are opening dimensions. Dampers are provided approximately ¼" undersize.
2. Multiple-panel units are shipped with the panels factory-assembled, to a maximum of 48ft². When jackshafting is designated, it will be installed. When it is desired to have the individual damper panels shipped loose, this must be clearly noted.
3. Dampers with multiple panels in both width and height require structural support (by others). It is recommended that large openings be divided with structural members such that dampers will span either the width or height of each opening between the structural members with a single panel.
4. The GD1/GD2 is designed to operate in a clean, dry environment. For proper operation, dampers must be installed square, plumb, and without racking.

## DAMPER SIZE

Panels	Minimum Panel	Maximum Panel
GD1 Parallel Blade	6"W x 6"H	48"W x 72"H
GD2 Opposed Blade	6"W x 11"H	48"W x 72"H



Flat 16-GA Head and Sill on All Dampers Under 14"H.



GD1  
Parallel Blade

Single Thickness Blade • 200°F Max Temperature • Parallel or Opposed Blade • Steel Control Damper

**Operations Rating:**

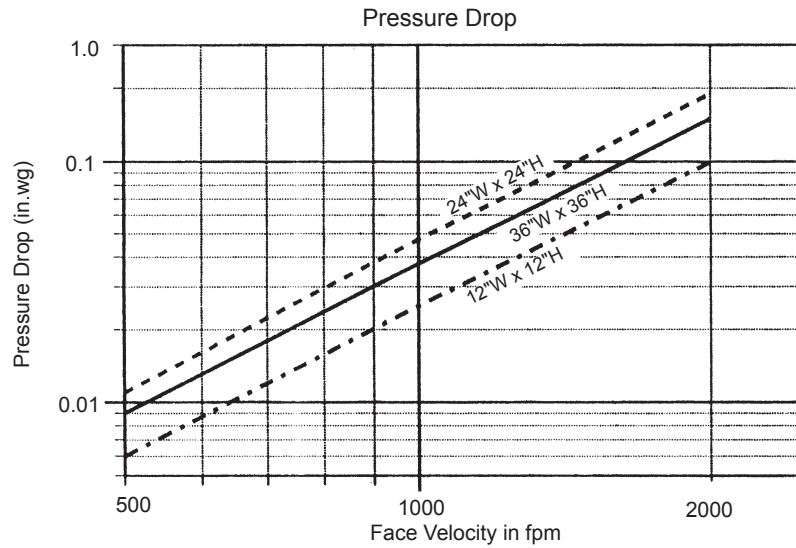
Maximum Differential Pressure: 4 in.wg (1000 Pa)  
 Maximum Face Velocity: 2000 fpm (10 m/s)

**Leakage:**

Leakage for GD1/GD2 with optional seals (vinyl on blade edges and stainless steel on jamb) 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" lbs. of torque applied to the damper shaft. Data based on a 48"W x 48"H 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 in.wg	Conversion Factor
2	1.41
3	1.75
4	2.00



Typical Performance Curves  
 Tested per AMCA Standard 500-D; Figure 5.3 (In-Duct Mount)  
 (Smaller sizes will have higher pressure drops)