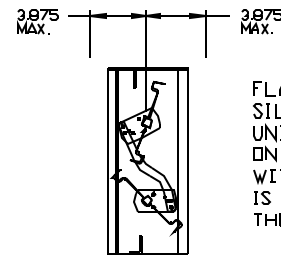
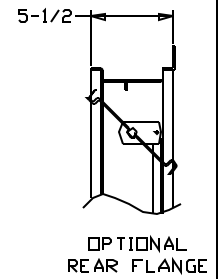
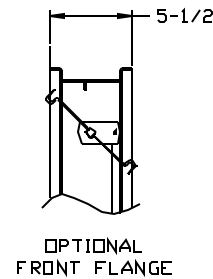
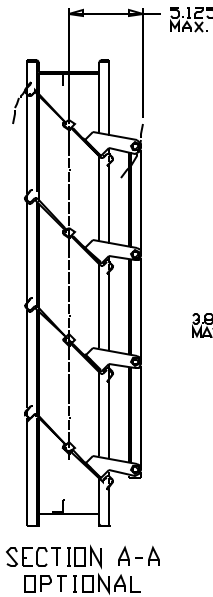
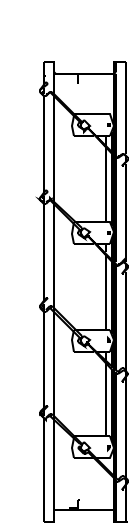
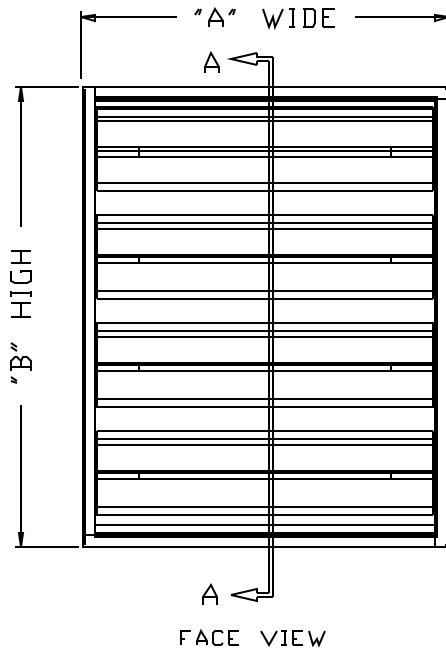


# VOLUME CONTROL DAMPER, SINGLE THICKNESS BLADES GALVANIZED STEEL CONSTRUCTION, 200°F MAX. TEMP.

MODEL GD-1 (PARALLEL BLADES)  
MODEL GD-2 (OPPOSED BLADES)



FLAT 16 GA. HEAD AND  
SILL ON ALL DAMPERS  
UNDER 14" IN HEIGHT.  
ON BLADE LINKAGE  
WITH PARALLEL BLADES  
IS NOT AVAILABLE IN  
THESE SIZES.

AWV ITEM NO.	QUANTITY	MODEL TYPE GD-1 OR GD-2	"A" WIDE OPENING	"B" HIGH OPENING	OPTIONS										COMMENTS										
					ON-BLADE LINKAGE	VERTICAL BLADES	OIL IMPREGNATED BRONZE-300°F	STAINLESS STEEL SLEEVE-300°F	MANUAL	ELECTRIC	PNEUMATIC	EXTERNALLY MOUNTED	VINYL ON BLADE-150°F	GLASS/ON BLADE-150°F		SLICONS ON BLADE-200°F	SS-JUMP-300°F	G/ MAXIMUM WIDTH	4" MAXIMUM WIDTH	JACKSHAFTING	ON BLADE DRIVE BRACKET FOR INTERNAL OPERATION	HEAVY DUTY CONSTRUCTION (3000 FPM MAX VELOCITY)	FLANGED FRAME (FRONT & REAR)	1/2 GA GALV. STEEL FRAME	

**STANDARD SPECIFICATIONS**

**FRAME:** 5-1/2" x 7/8" x 16 GAUGE GALVANIZED STEEL HAT CHANNEL. FLAT 16 GAUGE GALVANIZED HEAD AND SILL FOR MAXIMUM FREE AREA ON DAMPERS UNDER 14" HIGH 5-1/2" x 7/8" x 1-1/2" x 16 GA. GALV. STEEL FLANGED CHANNEL FOR OPTIONAL FLANGED FRAME DAMPERS.

**BLADES:** 16 GAUGE GALVANIZED STEEL, 8" NOMINAL WIDTH.

**AXLES:** 1/2" SQUARE, PLATED STEEL, STUB

**BEARINGS:** HEAVY DUTY MOLDED NYLON (TO 200°F)

**LINKAGE:** PLATED STEEL ANGLE AND CRANK PLATES WITH STAINLESS STEEL PIVOTS, IN-JAMB TYPE.

**STOPS:** GALVANIZED STEEL ANGLES AT HEAD AND SILL.

**FINISH:** MILL.

**ACTUATOR:** A 1/2" DIAMETER 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 INTERNAL ACTUATOR INSTALLATION.

**NOTES**

- ANY VARIATION TO THE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
- MAXIMUM PANEL SIZE:
 

36" V x 72" H	LINKAGE	SEALS
48" V x 72" H	IN-JAMB	WITH
48" V x 72" H	IN-JAMB	WITHOUT
48" V x 72" H	ON-BLADE	WITH
48" V x 72" H	ON-BLADE	WITHOUT

 MINIMUM PANEL SIZE: 5' W x 5' H (SINGLE BLADE, VC-1)  
5' W x 11' H (TWO BLADES, VC-2)
- "A" (WIDTH) AND "B" (HEIGHT) DIMENSIONS ARE OPENING SIZES. DAMPERS WILL BE FABRICATED 1/4" UNDERSIZE.
- MAXIMUM FACE VELOCITY: 2000FPM (10m/s) (3000FPM (15m/s) AVAILABLE WHEN SPECIFIED)

REV.	DESCRIPTION	DATE	BY
DATE :			
L&D PROD. No. :			
PROJECT :			
CUSTOMER / ORDER No. :			
ARCH. / ENGR. :			
AGENT / ORDER No. :			

**LD LOUVERS & DAMPERS**  
A MESTEK COMPANY  
7435 INDUSTRIAL ROAD FLORENCE, KY  
Phone (859) 647-2299 Fax (859) 647-7810

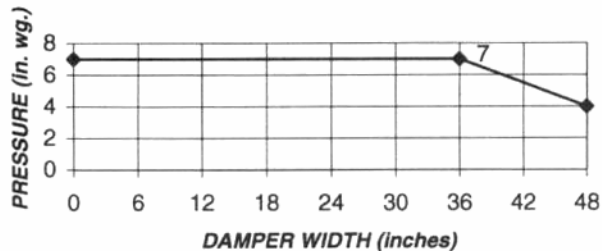
GD-1 & GD-2 VOLUME CONTROL DAMPERS		
DRN. BY JVA	DWG. NO. GD-1-1	REV.
DATE 2-26-01		

**GENERAL NOTES:**

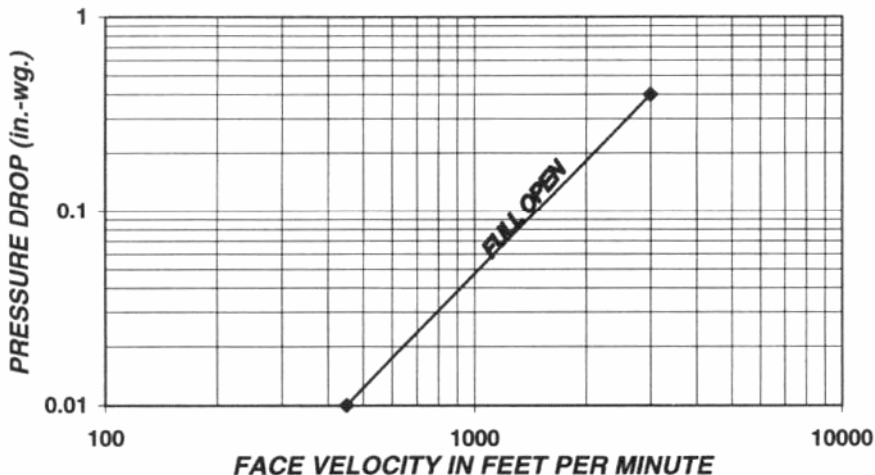
- Multiple panel units are shipped with the panels factory assembled, to a maximum of 48 sq. ft. When jackshafting is designated, it will be installed. When it is desired to have the individual damper panels shipped loose, this must be clearly noted.
- Dampers with multiple panels in both width and height require structural supports (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 structural members with a single panel.
- The GD-1/2 has been designed to operate in a clean, dry environment. For proper operation, dampers must be installed square, plum and without racking.

**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.



**PRESSURE DROP: TYPICAL PERFORMANCE CURVE**



TESTED PER AMCA STANDARD 500;  
FIGURE 5.3: (IN-DUCT MOUNT)  
SIZE TESTED - 42" x 42"

**LEAKAGE:**

Quantities are derived from tests performed in accordance with AMCA Standard 500. The values shown in the chart are stated in SCFM at 1" wg. Use of the conversion factors below will give leakage values at greater pressures. For lower leakages, consult our representative or factory customer service department prior to selection.

PRESSURE (in. w.g.)	CONVERSION FACTOR
2	1.41
3	1.73
4	2

DAMPER HEIGHT	LEAKAGE IN SCFM AT 1 in. wg							
	WITHOUT SEALS				WITH SEALS			
	DAMPER WIDTH				DAMPER WIDTH			
	12	24	36	48	12	24	36	48
12	80	97	113	130	7	8	10	12
19	125	150	175	201	9	11	14	16
27	176	209	243	276	12	15	18	21
34	221	263	305	347	14	18	21	25
48	304	354	404	454	17	22	26	30
55	349	407	466	524	20	25	30	35
63	400	466	533	600	22	28	33	39
70	445	520	595	670	24	31	37	43
72	496	579	662	746	27	34	41	48

