

MODEL VGA-517 / VGA-518

STEEL CONTROL DAMPER • 5½" DEEP • 6⅝" AIRFOIL BLADES • PARALLEL (517) OR OPPOSED (518)

STANDARD MATERIALS AND CONSTRUCTION

Frame: 5½" x 7⅛" x 16 GA. galvanized steel hat channel.

Blades: Airfoil shaped, double skin galvanized steel construction, 6⅝" wide.

Axles: ½" square plated steel.

Linkage: Plated steel tie bar and crank plates with stainless steel pivots contained in jamb.

Bearings: Heavy duty molded nylon.

Seals: Vinyl on blades and stop angles, and stainless steel at jambs.

Finish: Mill (No Finish)

Temperature Limits: -40 °F to +200 °F

OPTIONS

Exact Size

Blade Action - Parallel (517) or Opposed (518)

Material - 304 Stainless Steel

Face/Bypass - Vertical, Horizontal or Perpendicular

Sleeve - Transition - Sideplate

Vertical Blades

Flange - Front, Rear or Both

Jackshaft (½" or 1" diameter, depending on damper size)

Actuators - 120V, 24V, 230V or Pneumatic

Accessories - manual quadrants, standoffs, extended shafts

Position Indication - PK1200, PK1201 or integral to actuator

Transformer

Explosion Proof Housing

Pilot Positioner (for pneumatic actuators)

Copper Tubing (for pneumatic actuators)

Tab-Lock Retaining Angles - 1 or 2 sets

Bearings - OIL or Stainless Steel

Axle - Stainless Steel

Security Bars

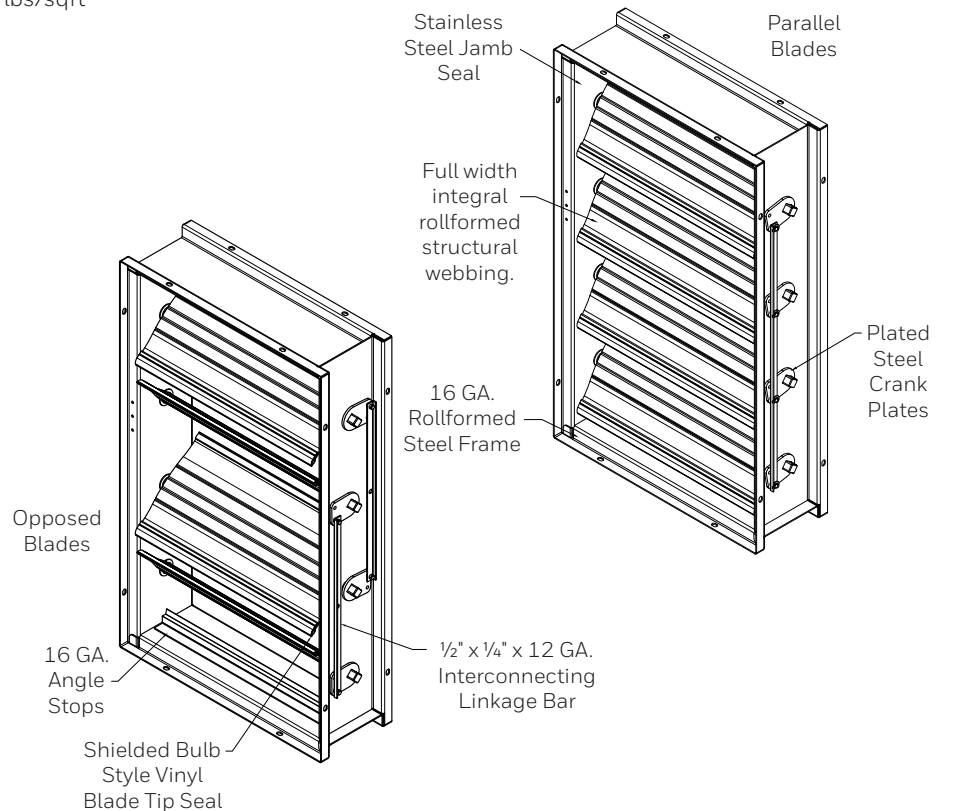
NOTES

1. Nominal deductions of ¼" made to the opening size (unless specified as exact size).

2. Depending upon damper height, a variable width blade may be required, which could extend to a maximum of 2⅝" from either face of the damper. Contact the factory if exact dimensions of this variable blade are critical.

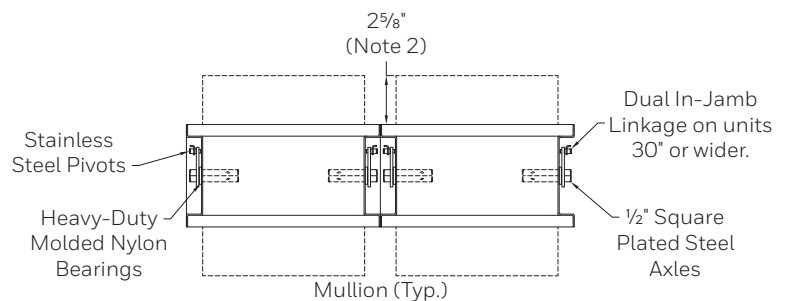
3. Dampers less than 14" tall are flat head/sill construction to maximize free area.

4. Shipping weight is approximately 6.5 lbs/sqft



DAMPER SIZES

BLADE TYPE	MINIMUM PANEL	MAXIMUM PANEL
Parallel	8"W x 6"H	48"W x 72"H
Opposed	8"W x 12"H	48"W x 72"H



SCHEDULE BLOCK ON PAGE 3

PERFORMANCE DATA - PRESSURE DROP & AIR LEAKAGE

- Tested for Air Performance in accordance with ANSI/AMCA Standard 500-D, Figure 5.3. Air performance testing was conducted using opposed blade dampers; the same results can be applied to parallel blade dampers.
- Static pressures are corrected to .075 lb./cu.ft. air density
- Air Leakage is based on operation between 32° F and 120° F. Tested for air leakage in accordance with ANSI/AMCA Standard 500-D, Figure 5.4. Data are based on a torque of 7 in-lb/ft² applied to close and seat the damper during the test.

LEAKAGE CLASS TEST RESULTS

PARALLEL (VGA-517)

DAMPER SIZE	1 IN. W.G.	4 IN. W.G.	6 IN. W.G.	8 IN. W.G.	12 IN. W.G.
12"W x 46"H	1A	1	1	1	1
36"W x 36"H	1A	1	1	1	1
48"W x 36"H	1A	1	1	1	-

OPPOSED (VGA-518)

DAMPER SIZE	1 IN. W.G.	4 IN. W.G.	6 IN. W.G.	8 IN. W.G.	12 IN. W.G.
12"W x 46"H	1A	1	1	1	1
36"W x 36"H	1A	1	1	1	1
48"W x 36"H	1A	1	1	-	-

PRESSURE DROP DATA

12"W X 12"H

VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)
500	0.01
1000	0.05
1500	0.11
2000	0.20
2500	0.31
3000	0.45
3500	0.61
4000	0.80
4500	1.01
5000	1.25

24"W X 24"H

VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)
500	0.01
1000	0.03
1500	0.08
2000	0.14
2500	0.21
3000	0.31
3500	0.42
4000	0.55
4500	0.69
5000	0.85

12"W X 48"H

VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)
500	0.01
1000	0.04
1500	0.08
2000	0.14
2500	0.22
3000	0.32
3500	0.43
4000	0.57
4500	0.72
5000	0.88

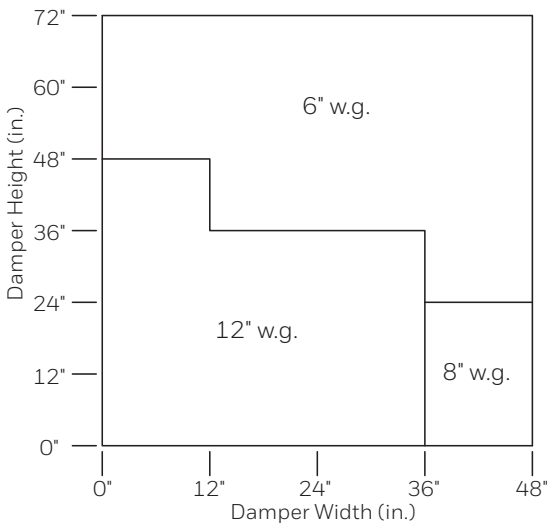
36"W X 36"H

VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)
500	0.01
1000	0.02
1500	0.05
2000	0.09
2500	0.16
3000	0.20
3500	-
4000	-
4500	-
5000	-

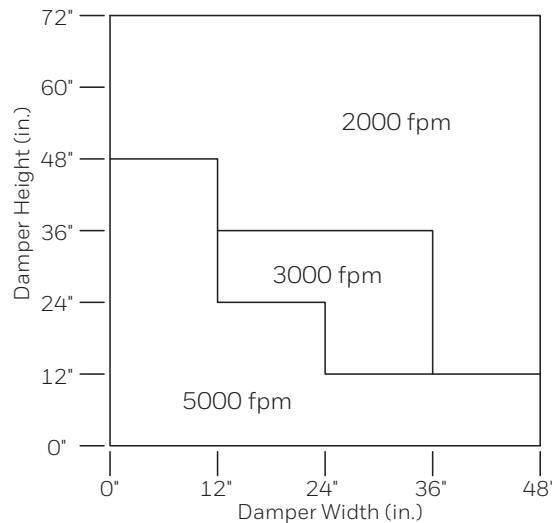
48"W X 12"H

VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)
500	0.01
1000	0.03
1500	0.08
2000	0.14
2500	0.21
3000	0.30
3500	0.41
4000	0.54
4500	0.68
5000	0.84

RECOMMENDED MAX PRESSURE (in. w.g.)




RECOMMENDED MAX VELOCITY (fpm)



Honeywell Dampers certifies that the Model VGA-517/ VGA-518 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to Air Leakage and Air Performance ratings only.

SCHEDULE BLOCK

- For handwritten orders, please use the schedule block provided below.

SCHEDULE BLOCK												
Item #	Qty	Width	Height	Parallel Blades	Opposed Blades	Seals	Actuator Model	Interior	Exterior	N.C.	N.O.	
		Damper Size						Act. Location		Function		
Arch. / Eng.:				EDR:		ECN:		Job:				
Contractor:												
Project:				Date:		DWN:		DWG:				

Mestek Commercial Damper and Louver Group

450 Riverside Drive
 Wyalusing, PA. 18853
 570-420-7046
 info@honeywelldampers.com
 www.honeywelldampers.com

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SD-VGA517-518 | HW-02-01-02 | November 2022

