DWG. NO.

VC - 28 - 1

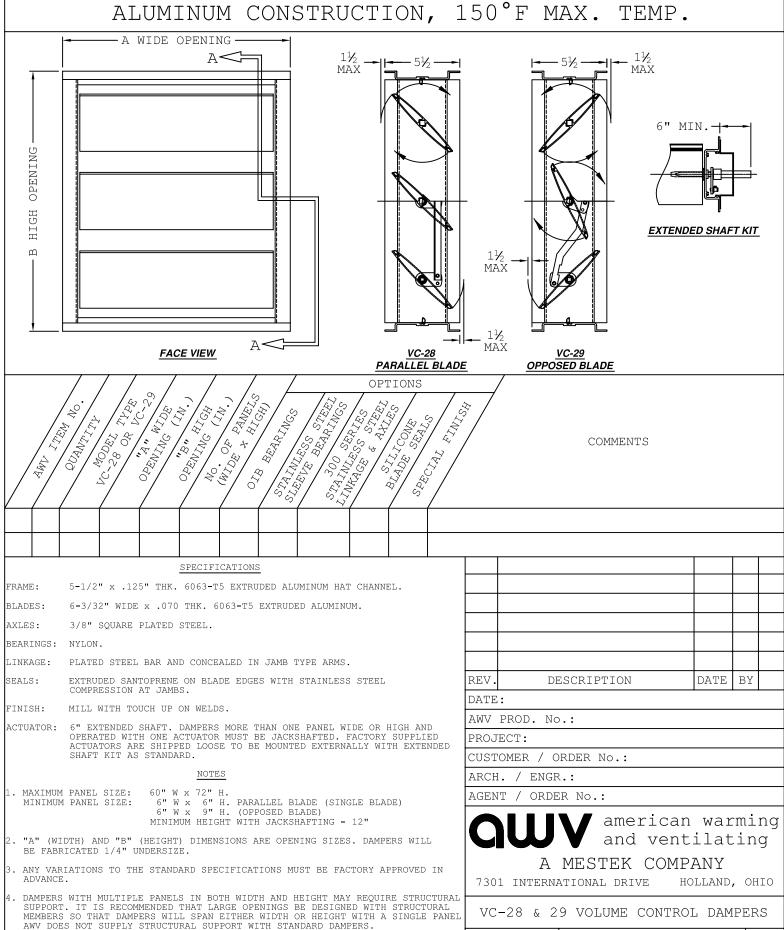
DRN. BY

2/4/10

DATE

REV.

VOLUME CONTROL DAMPER, AIRFOIL BLADES, ALUMINUM CONSTRUCTION, 150°F MAX.



6. STAINLESS STEEL SLEEVE BEARINGS ARE NOT RECOMMENDED FOR SALTY ENVIRONMENTS.

DAMPERS MAY BE INSTALLED VERTICALLY OR HORIZONTALLY, BUT WE DO NOT RECOMMEND INSTALLATION WITH THE BLADES AND AXLES IN THE VERTICAL POSITION.

MODEL VC-28 & VC-29

Volume Control Damper: Aluminum Construction • 150°F Max. Temperature • Airfoil Blades

Leakage:

VC-28 / 29 dampers are rated for Class IA leakage as tested to AMCA Standard 511-99; Certified Ratings Programs for Air Control Devices. Class IA leakage is defined as 3 CFM/sq. ft. of damper face area at 1in. wg. Closing torques followed the rules described below. Leakage is based on temperature ranges from 40°F and 104°F and standard air density of 0.75 lb/ft³.

Leakage, cfm/sqft (L/s/sqm)					
Pressure /	Required Ratings				
Class	1 in.wg (0.25 kPa)	4 in.wg (1.0 kPa)			
1A	3 (15.2)	N/A			
1	4 (20.3)	8 (40.6)			
2	10 (50.8)	20 (102)			
3	40 (203)	80 (406)			

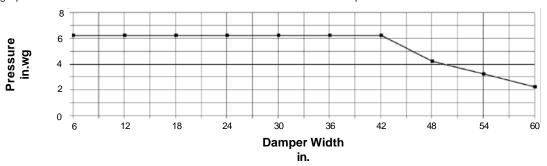
Torque:

Closing Torque Applied to Extended Shaft				
Damper Width	Closing Torque (in-lbs/sq.ft.)			
48"W Maximum	7 in-lbs/sq.ft			
60"W Maximum	5 in-lbs/sq.ft			
Minimum Torque: 25 in-lbs				

Torque Multipliers for Pressures Greater than 2 in.wg						
Damper Width	Static Pressure (in.wg)					
	3 in. wg	4 in.wg	5 in.wg	6 in.wg		
48"W Maximum	1.43 in.wg	2.86 in.wg	2.86 in.wg	2.86 in.wg		
60"W Maximum	Maximum Pressure is 2 in.wg					

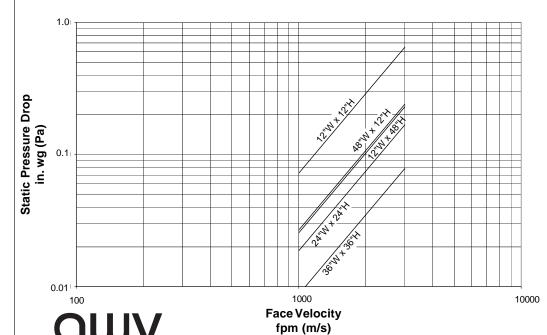
Pressure Limitations:

Pressure limitations allow maximum blade deflection of 1/180 of span on 60" damper widths. Deflections in other damper widths less than 48" at high pressures shown will result in a blade deflection less than 1/180 of span.



Pressure Drop:

Performance is based on AMCA Standard 500, Figure 5.3 (in-duct mount), operating temperatures between 50°F and 104°F and a standard air density of 0.75 lb/ft³. Actual pressure drop performance will vary based on damper size and exact installation configuration. The curves shown below are parallel blade results, opposed blade results are similar.





American Warming & Ventilating certifies that the model VC-28 / 29 damper 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 performance ratings and air leakage ratings.

American Warming and Ventilating • 7301 International Drive • Holland, Ohio 43528 Tel: 419-865-5000 • Fax: 419-865-1375 • www.awv.com • info@awv.com