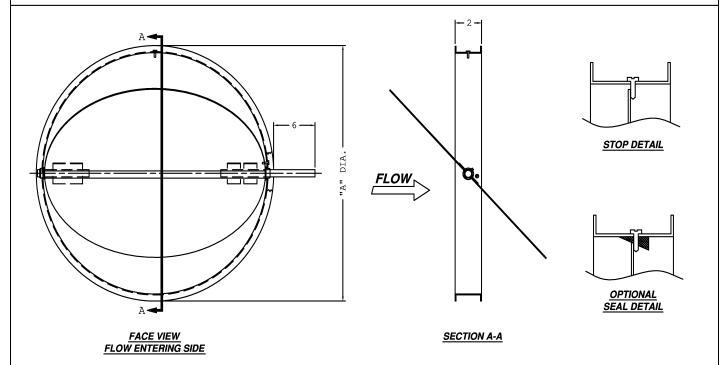
VOLUME CONTROL DAMPER, SINGLE THICKNESS BLADE, GALVANIZED STEEL CONSTRUCTION, 180°F MAX. TEMP.



AWV.		57/15,08#15 57/15 10,000 m	7,62/2	1. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BEARINGS	. 23 14,75 14,75	7	COMMENTS	

STANDARD SPECIFICATIONS

FRAME: 2" x 1/2" x 14 GAUGE GALVANIZED STEEL CHANNEL.

BLADE: 16 GAUGE GALVANIZED STEEL.

AXLE: 1/2" DIAMETER PLATED STEEL STUBS.

BEARINGS: NYLON SLEEVE WITH STAINLESS STEEL THRUSTWASHERS. (200°F)

STOPS: #10 PLATED SHEET METAL SCREWS FOR THE OPEN AND CLOSED POSITIONS.

FINISH: MILL WITH TOUCH-UP ON WELDS.

ACTUATOR: AN EXTENDED SHAFT 6" BEYOND THE FRAME IS STANDARD.

NOTES

1. DESIGN CRITERIA:

MAX. VELOCITY: 3000 FPM / 15 m/s

MAX. DIFF. PRESS.: 2 IN. WG / 500 Pa

MAX. TEMPERATURE: 180°F / 82°C (WITHOUT SEALS)

150°F / 65°C (WITH EPT SEALS)

- 2. WHEN SILICONE SEALS ARE USED, STAINLESS STEEL AXLES AND SLEEVE BEARINGS MUST BE USED.
- 3. MINIMUM DIAMETER: 6" MAXIMUM DIAMETER: 18"
- 4. "A" DIMENSION IS THE DUCT DIAMETER. DAMPERS ARE FABRICATED 1/8" UNDERSIZE.
- 5. DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC INFORMATION FOR ANY COMPONENT PART OR CONSTRUCTION DETAIL WILL BE FURNISHED UPON REQUEST.
- 6. ANY VARIATIONS FROM THE STANDARD SPECIFICATIONS MUST BE FACTORY APPROVED IN ADVANCE.
- 7. SEE PAGE 17 OF DAMPER BROCHURE FOR PERFORMANCE DATA.

REV.	DESCRIPTION	DATE	ВҮ	

DATE:

AWV PROD. No.:

CUSTOMER:

CUSTOMER ORDER No.:

AGENT:

AGENT ORDER No.:



american warming and ventilating

A MESTEK COMPANY

7301 INTERNATIONAL DRIVE HOLLAND, OHIO

VC-22 VOLUME CONTROL DAMPER

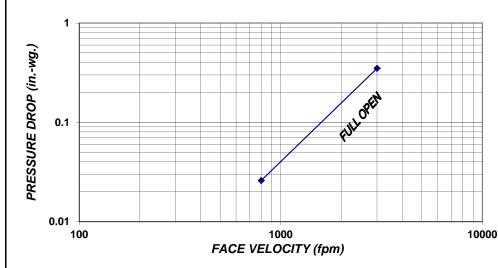
DRN.		DWG.	NO.	REV.
DATE	SJA 3-26-01		VC-22-1	

TORQUE:

The torque required to operate a control damper is the greatest torque value that the damper will see in operation. The table below gives torque values for velocity, pressure and seals. The torque required for a damper without seals is the torque due to velocity or pressure, whichever is greater. The torque required for a damper with seals is the torque due to velocity, pressure, or seals, whichever is greater. The values in the chart below are based on 3000 fpm and 2 inches wg.

VC-22									
111		DIA.	6	8	10	12	14	16	18
TORQUE	Velocity	In-lbs	10	10	10	10	18	25	35
S _O	Pressure	In-lbs	10	10	10	10	10	10	10
-	Seal	In-lbs	10	10	10	10	14	18	25

PRESSURE DROP: TYPICAL PERFORMANCE CURVE



Tested per AMCA Standard 500; Figure 5.3 (in-duct mount) Size tested: 18" diameter

LEAKAGE:

Quantities are derived from tests performed in accordance with AMCA Standard 500. The values shown in the chart are stated in SCFM. For lower leakages, consult our representative or factory customer service department prior to selection.

LEAKAGE IN SCFM

	VC-22 WITH	OUT SEALS	VC-22 WITH SEALS		
DAMPER	PRES	SURE	PRESSURE		
DIAMETER	1 in. wg.	2 in. wg.	1 in. wg.	2 in. wg.	
6	110	155	8	12	
8	145	205	9	13	
10	180	255	9	13	
12	215	305	10	15	
14	250	355	10	15	
16	285	405	11	16	
18	325	460	12	17	