

3-Way Mixing Bronze w/VM Motors

1/2" – 2"

APPLICATION:

Control of Water; Water & Glycol Solutions to 50%.
Valves mix two flows together (Converging). Seat Closure
ANSI Class IV*

CONSTRUCTION:

Body: ANSI B16.15 Bronze 250lb.Threaded (NPT)
Trim: Linear, 316 Series Stainless Steel
Stem: 316 Stainless Steel
Bonnet: Brass / Bronze
Packing: Guided Low-Friction TFE V-Ring, Self Adjusting

TRIM LIMITS (Flowing Differential Pressure):

S/S Trim: Liquids to 100 PSID

CONFIGURATIONS:

Select Valve and Actuator Code in Tables:

BODY PRESSURE-TEMPERATURE RATINGS:

Temp.	250 THD (ratings are PSIG)
+32 to 150° F	400
375° F	275

NOTES:

- 1) Inlet Pressure cannot exceed Body Pressure-Temperature Rating.
- 2) Shut-off PSID is per stated ANSI Shut-off Classification.
- 3) Flowing PSID for water service should be no greater than 2/3 of Inlet Pressure unless verified for absence of cavitation with Warren Valve Sizing Program.

Valve					VM1500E Actuator 24 VAC Supply			
Cv	Size (IN)	Thd NPT	Trim	Valve Code	Shut Off PSID	Fail Safe w/VMS-25	Fail Last Position	Approx Timing (SEC)
						Actuator Code	Actuator Code	
6.3	0.5	250	S/S	VA3004AC	260	E016	E017	57
8.2	.75	250	S/S	VA3005AC	260	E016	E017	57
10	1.0	250	S/S	VA3006AC	260	E016	E017	57
18.5	1.25	250	S/S	VA3007AC	101	E016	E017	77
20	1.5	250	S/S	VA3008AC	101	E016	E017	77
40	2	250	S/S	VA3009AC	55	E016	E017	77

Valve					VM5000E Actuator 24 VAC Supply			
Cv	Size (IN)	Thd NPT	Trim	Valve Code	Shut Off PSID	Fail Safe w/VMS-25	Fail Last Position	Approx Timing (SEC)
						Actuator Code	Actuator Code	
6.3	0.5	250	S/S	VA3004AC	400	E018	E019	43
8.2	.75	250	S/S	VA3005AC	400	E018	E019	43
10	1.0	250	S/S	VA3006AC	400	E018	E019	43
18.5	1.25	250	S/S	VA3007AC	400	E018	E019	57
20	1.5	250	S/S	VA3008AC	400	E018	E019	57
40	2	250	S/S	VA3009AC	272	E018	E019	57

Actuator Specifications:

Control Signal: 4-20 mAdc (Factory Setting), 0-20 mAdc, 0-10 Vdc, or 2-10 Vdc, and Floating. Self-Adjusting, Field-Selectable
Control Action: Increasing Signal Closes Lower Port / Opens Upper Port (Factory Setting) - Reversible
Power Consumption: VM1500E : 12VA / VM5000E : 25VA
Timing: See Configuration Tables
Feedback Signal: 0-10 Vdc or 2-10 Vdc
Manual Override: Yes
Construction: Polycarbonate Motor Housing with Steel Linkage and Yoke
Locations: NEMA Type 2 / IP54 Indoor Only
Temperature Limits: Ambient... +32F to 122F
Mounting: Vertical Above Centerline of Valve

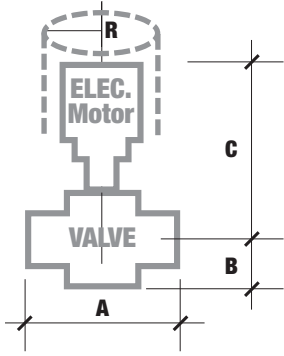
VMS-25 Power Pack Specifications:

Required for Fail Safe Operation (one VMS-25 can operate two VM1500E or one VM5000E at a time)
Fail Direction: Field Selectable to Close Upper Port or Close Lower Port on Loss of Power
Power Consumption: 24VAC, 40VA
Construction: Battery w/Circuit Board & Transformer, Components Only
Mounting: Panel Mount
Approximate LxWxH: 7-1/2" x 5" x 3"

1/2"– 2"

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Electric Motor-Actuated Valves



ROUGHING DIMENSIONS (Inches):

Component	Dimension by Valve Size (Inches)	variable		
		1/2, 3/4, 1	1-1/4 & 1-1/2	2
A	250THD	4-7/8	5-3/4	6-1/2
B	250THD	2-3/4	3-7/8	4
C	VM1500E Actuator	17-5/8	17-5/8	18-1/2
C	VM5000E Actuator	18	18	18-7/8
R*	VM1500E Actuator	3-1/4	3-1/4	3-1/4
R*	VM5000E Actuator	5	5	5

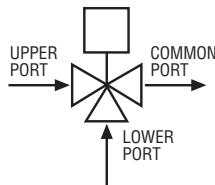
Allow 6 inch clearance above actuator for removal / service.

*Centerline of Valve to Outside Actuator

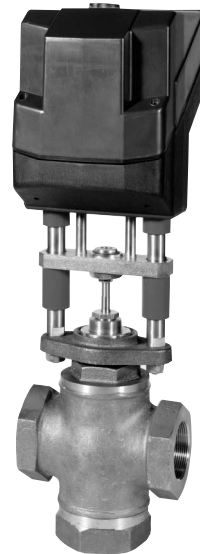
WEIGHTS:

Item	Weight
Valve Size (in.)	LBS.
1/2, 3/4, 1	9
1-1/4 & 1-1/2	15-1/2
2	20
Actuator	LBS.
VM1500E	8-1/2
VM5000E	22-1/2
Power Pack	LBS.
VMS-25	3

Actual shipping weights may vary.



VA3008AC-E017



VA3009AC-E019

