

APPLICATION:

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

CONSTRUCTION:

Body: 316 Stainless Steel 300lb.Threaded (NPT)
With Fluoraz 797 O-Ring & TFE Back Up Ring
Trim: Linear, 316 Series Stainless Steel
Stem: 316 Stainless Steel
Bonnet: 316 Stainless Steel
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.	300 THD (ratings are PSIG)
+32 to 100° F	720
400° F	515

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	300	S/S	VA3004EC	260	E016	E017	57
8.2	.75	300	S/S	VA3005EC	260	E016	E017	57
10	1.0	300	S/S	VA3006EC	260	E016	E017	57
18.5	1.25	300	S/S	VA3007EC	101	E016	E017	77
20	1.5	300	S/S	VA3008EC	101	E016	E017	77
40	2	300	S/S	VA3009EC	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	300	S/S	VA3004EC	720	E018	E019	43
8.2	.75	300	S/S	VA3005EC	720	E018	E019	43
10	1.0	300	S/S	VA3006EC	720	E018	E019	43
18.5	1.25	300	S/S	VA3007EC	450	E018	E019	57
20	1.5	300	S/S	VA3008EC	450	E018	E019	57
40	2	300	S/S	VA3009EC	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:

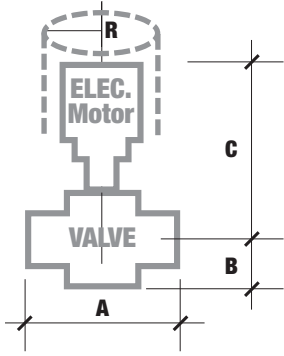
Required for Fail Safe Operation (one VMS-25 can operate two VM1500E or one VM5000E at a time)

Fail Direction: Field Selectable to Close or Open Valve 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"

3-Way Mixing Stainless Steel w/VM Motors

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	300THD	5	6-1/8	6-1/2
B	300THD	2-3/4	3-3/8	3-3/4
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

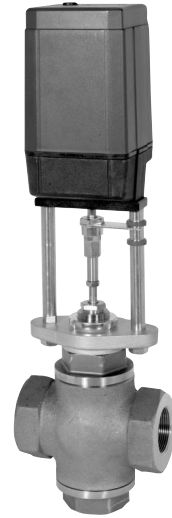
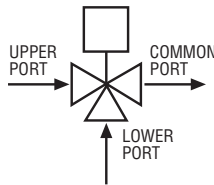
Allow 6 inch clearance above actuator for removal / service.

*Centerline of Valve to Outside Actuator

WEIGHTS:

Item	Weight
Valve Size (in.)	LBS.
1/2, 3/4, 1	8
1-1/4 & 1-1/2	15
2	18-1/2
Actuator	LBS.
VM1500E	8-1/2
VM5000E	22-1/2
Power Pack	LBS.
VMS-25	3

Actual shipping weights may vary.



VA3008EC-E017



VA3009EC-E019

