

### APPLICATION:

Control of Water; Water & Glycol Solutions to 50%.  
Valves divert one flow into two directions (Diverting). Seat Closure ANSI Class II\*

### CONSTRUCTION:

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

### TRIM LIMITS (Flowing Differential Pressure):

Brz Trim: Liquids to 40 PSID

### CONFIGURATIONS:

Select Valve and Actuator Code in Tables:

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	
12	1.0	250	BRZ	VA3206AA	125	E016	E017	77
22	1.5	250	BRZ	VA3208AA	125	E016	E017	77
40	2	250	BRZ	VA3209AA	125	E016	E017	77

### 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  
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

### BODY PRESSURE-TEMPERATURE RATINGS:

Temp.	250 THD (ratings are PSIG)
+32 to 150° F	400
300° F	335

### 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.
- 4) The difference between the upper port and the lower port pressure must not exceed 50PSID.

### VMS-25 Power Pack Specifications:

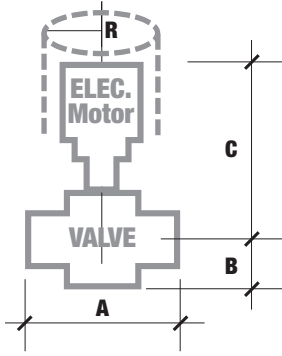
Required for Fail Safe Operation (one VMS-25 can operate two VM1500E at a time)

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"

# 3-Way Diverting Bronze w/VM Motors

# Electric Motor-Actuated Valves



### ROUGHING DIMENSIONS (Inches):

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

**Allow 6 inch clearance above actuator for removal / service.**

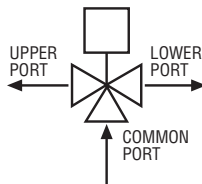
\*Centerline of Valve to Outside Actuator



VA3208AA-E017

### WEIGHTS:

Item	Weight
Valve Size (in.)	LBS.
1	9
1-1/2	16-1/2
2	21
Actuator	LBS.
VM1500E	8-1/2
Power Pack	LBS.
VMS-25	3



**Actual shipping weights may vary.**

