

APPLICATION:

Control of Saturated Steam; Water; Water & Glycol Solutions to 50%. Seat Closure ANSI Class IV*

CONSTRUCTION:

Body: ANSI B16.15 Bronze 250lb.Threaded (NPT)
 Trim: EQ%, 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: Liquid or Steam 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	
4.9	0.5	250	S/S	VA2004AC	400	E016	E017	77
7.2	.75	250	S/S	VA2005AC	400	E016	E017	77
10	1.0	250	S/S	VA2006AC	260	E016	E017	77
22.2	1.25	250	S/S	VA2007AC	101	E016	E017	77
24	1.5	250	S/S	VA2008AC	101	E016	E017	77
40	2	250	S/S	VA2009AC	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	
10	1.0	250	S/S	VA2006AC	400	E018	E019	57
22.2	1.25	250	S/S	VA2007AC	400	E018	E019	57
24	1.5	250	S/S	VA2008AC	400	E018	E019	57
40	2	250	S/S	VA2009AC	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 Valve (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

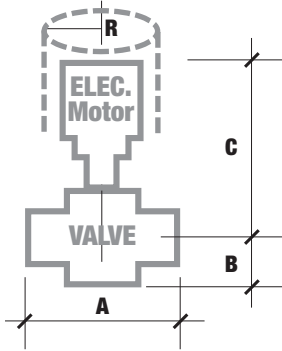
VMS-25 Power Pack Specifications:

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"

Single-Seated Bronze w/VM Motors

Electric Motor-Actuated Valves



ROUGHING DIMENSIONS (Inches):

Component		Dimension by Valve Size (Inches)			
		1/2 & 3/4	1	1-1/4 & 1-1/2	2
A	250THD	4-7/8	4-7/8	5-3/4	6-1/2
B	250THD	2-3/4	2-3/4	3-1/4	3-5/8
C	VM1500E Actuator	17-5/8	17-5/8	18-1/4	18-1/2
C	VM5000E Actuator	N/A	18	18-5/8	18-7/8
R*	VM1500E Actuator	3-1/4	3-1/4	3-1/4	3-1/4
R*	VM5000E Actuator	N/A	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	8-1/2
1-1/4 & 1-1/2	14-1/2
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.



VA2004AC-E017



VA2009AC-E019

