

Single-Seated Iron w/VM Motors

2-1/2" – 8"

APPLICATION:

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

CONSTRUCTION:

Body: ANSI B16.1 Iron 125lb. Flange or 250lb. Flange
 Trim: EQ%, Bronze or 300 Series Stainless Steel
 Stem: 316 Stainless Steel
 Bonnet: Brass
 Packing: Guided Low-Friction TFE V-Ring, Self Adjusting

TRIM LIMITS(Flowing Differential Pressure):

Brz Trim: Liquid or Steam to 40 PSID
 S/S Trim: Liquid or Steam to 100 PSID

BODY PRESSURE-TEMPERATURE RATINGS:

Temp.	125 FLG (ratings are PSIG)	250 FLG (ratings are PSIG)
+32 to 150° F	175	400
350° F	125	280
400° F	–	250

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.

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"

CONFIGURATIONS:

Select Valve and Actuator Code in Tables:

Valve					VM1500E Actuator 24 VAC Supply			
Cv	Size (IN)	Flng.	Trim	Valve Code	Shut Off PSID	Fail Safe w/VMS-25	Fail Last Position	Approx Timing (SEC)
						Actuator Code	Actuator Code	
65	2.5	125	BRZ	VA2010CA	51	E016	E017	77
65	2.5	125	S/S	VA2010CC	51	E016	E017	77
65	2.5	250	BRZ	VA2010DA	51	E016	E017	77
65	2.5	250	S/S	VA2010DC	51	E016	E017	77
90	3	125	BRZ	VA2011CA	33	E016	E017	77
90	3	125	S/S	VA2011CC	33	E016	E017	77
90	3	250	BRZ	VA2011DA	33	E016	E017	77
90	3	250	S/S	VA2011DC	33	E016	E017	77
170	4	125	BRZ	VA2013CA	16	E016	E017	77
170	4	125	S/S	VA2013CC	16	E016	E017	128
170	4	250	BRZ	VA2013DA	16	E016	E017	128
170	4	250	S/S	VA2013DC	16	E016	E017	128

Valve					VM5000E Actuator 24 VAC Supply			
Cv	Size (IN)	Flng.	Trim	Valve Code	Shut Off PSID	Fail Safe w/VMS-25	Fail Last Position	Approx Timing (SEC)
						Actuator Code	Actuator Code	
65	2.5	125	BRZ	VA2010CA	175	E018	E019	57
65	2.5	125	S/S	VA2010CC	175	E018	E019	57
65	2.5	250	BRZ	VA2010DA	208	E018	E019	57
65	2.5	250	S/S	VA2010DC	208	E018	E019	57
90	3	125	BRZ	VA2011CA	142	E018	E019	57
90	3	125	S/S	VA2011CC	142	E018	E019	57
90	3	250	BRZ	VA2011DA	142	E018	E019	57
90	3	250	S/S	VA2011DC	142	E018	E019	57
170	4	125	BRZ	VA2013CA	77	E018	E019	95
170	4	125	S/S	VA2013CC	77	E018	E019	95
170	4	250	BRZ	VA2013DA	77	E018	E019	95
170	4	250	S/S	VA2013DC	77	E018	E019	95
280	5	125	BRZ	VA2014CA	48	E018	E019	114
280	5	125	S/S	VA2014CC	48	E018	E019	114
280	5	250	BRZ	VA2014DA	48	E018	E019	114
280	5	250	S/S	VA2014DC	48	E018	E019	114
360	6	125	BRZ	VA2015CA	32	E018	E019	114
360	6	125	S/S	VA2015CC	32	E018	E019	114
360	6	250	BRZ	VA2015DA	32	E018	E019	114
360	6	250	S/S	VA2015DC	32	E018	E019	114
450	8	125	S/S	VA2017CC	31	E018	E019	152
450	8	250	S/S	VA2017DC	31	E018	E019	152

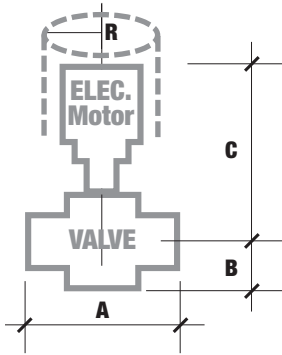
Actuator Specifications:

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

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Electric Motor-Actuated Valves



ROUGHING DIMENSIONS (Inches):

Component		Dimension by Valve Size (Inches)					
		2-1/2	3	4	5	6	8
	variable						
A	125 FLG	9	10	13	15-3/4	17-3/4	16-1/4
A	250 FLG	9-5/8	10-3/4	13-5/8	16-5/8	18-5/8	16-1/4
B		4-3/4	5-3/8	6-3/8	5-3/4	6-1/2	8-7/8
C	VM1500E Actuator	20	20-7/8	21-7/8	N/A	N/A	N/A
C	VM5000E Actuator	20-3/8	21-1/4	22-1/4	22-7/8	23-1/2	24-3/4
R*	VM1500E Actuator	3-1/4	3-1/4	3-1/4	N/A	N/A	N/A
R*	VM5000E Actuator	5	5	5	5	5	5

Allow 6 inch clearance above actuator for removal / service.

*Centerline of Valve to Outside Actuator

WEIGHTS:

Item	Weight	
Valve Size (in.)	125FLG (LBS.)	250FLG (LBS.)
2-1/2	55	64
3	72	77
4	119	131
5	134	166
6	175	233
8	270	360
Actuator	LBS.	
VM1500E	8-1/2	
VM5000E	22-1/2	
Power Pack	LBS.	
VMS-25	3	

Actual shipping weights may vary.



VA2010CA-E017



VA2015CC-E019

