

3-Way Mixing Bronze w/MP 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: Liquid 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					AV330 Linkage 24 VAC Supply			AV330 Linkage 330 120 VAC Supply			
Cv	Size (IN)	Thd NPT	Trim	Valve Code	Shut Off PSID	Fail Closed MP361 Motor CP9302 Drive	Fail Open MP371 Motor CP9302 Drive	Fail Last Pos. MP381 Motor CP9302 Drive	Fail Closed MP465 Motor CP9302 Drive	Fail Open MP475 Motor CP9302 Drive	Fail Last Pos. MP485 Motor CP9302 Drive
						Actuator Code	Actuator Code	Actuator Code	Actuator Code	Actuator Code	Actuator Code
6.3	0.5	250	S/S	VA3004AC	179	E000	E001	E002	E003	E004	E005
8.2	.75	250	S/S	VA3005AC	179	E000	E001	E002	E003	E004	E005
10	1.0	250	S/S	VA3006AC	179	E000	E001	E002	E003	E004	E005
18.5	1.25	250	S/S	VA3007AC	66	E000	E001	E002	E003	E004	E005
20	1.5	250	S/S	VA3008AC	66	E000	E001	E002	E003	E004	E005
40	2	250	S/S	VA3009AC	33	E000	E001	E002	E003	E004	E005

Valve					AV352 Linkage 24 VAC Supply			AV352 Linkage 352 120 VAC Supply			
Cv	Size (IN)	Thd NPT	Trim	Valve Code	Shut Off PSID	Fail Closed MP361 Motor CP9302 Drive	Fail Open MP371 Motor CP9302 Drive	Fail Last Pos. MP381 Motor CP9302 Drive	Fail Closed MP465 Motor CP9302 Drive	Fail Open MP475 Motor CP9302 Drive	Fail Last Pos. MP485 Motor CP9302 Drive
						Actuator Code	Actuator Code	Actuator Code	Actuator Code	Actuator Code	Actuator Code
18.5	1.25	250	S/S	VA3007AC	199	E006	E007	E008	E009	E010	E011
20	1.5	250	S/S	VA3008AC	199	E006	E007	E008	E009	E010	E011
40	2	250	S/S	VA3009AC	116	E006	E007	E008	E009	E010	E011

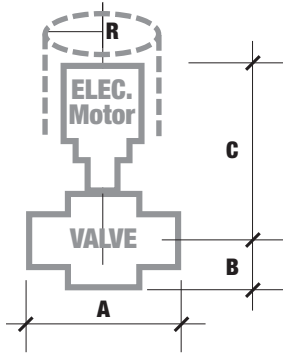
Actuator Specifications:

Control Signal: 4-20 mAdc (Factory Setting), 0-10 Vdc. Self-Adjusting, Field-Selectable
Control Action: Increasing Signal Closes Lower Port / Opens Upper Port (Factory Setting) - Reversible
Power Consumption: 60VA (except MP381: 52.8VA)
Timing: Approximately 90 Seconds (except MP381 & MP485 : 130 Seconds)
Feedback Signal: Not Available
Manual Override: Not Available
Auxiliary Switch: Adjustable SPDT
Construction: Die Cast Aluminum Motor Housing and Yoke. CP-9302 Injection Molded Plastic Case with Aluminum Cover
Locations: NEMA Type 1 Indoor Only
Temperature Limits: Ambient... +32F to 130F
Mounting: Vertical Above Centerline of Valve

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Electric Motor-Actuated Valves



ROUGHING DIMENSIONS (Inches):

Component		Dimension by Valve Size (Inches)		
variable		1/2 & 3/4	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	AV330 Linkage	15-5/8	16-1/4	16-1/2
C	AV352 Linkage	N/A	15-1/2	15-3/4
R*	AV330 Linkage	8-1/8	8-1/8	8-1/8
R*	AV352 Linkage	N/A	12	12

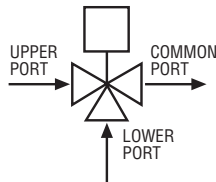
Allow 4-1/8 inch clearance above actuator for removal / service.

*Centerline of Valve to Outside Actuator

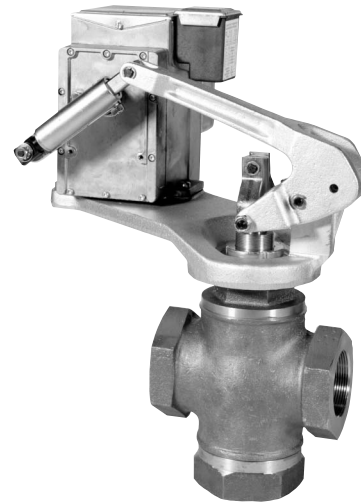
WEIGHTS:

Item	Weight
Valve Size (in.)	LBS.
1/2, 3/4, 1	9
1-1/4 & 1-1/2	15-1/2
2	20
Linkage	LBS.
AV330	3
AV352	14-1/2
Motor	LBS.
MP361, MP371	10
MP381	7-1/2
MP465, MP475	10-1/2
MP485	8
Drive	LBS.
CP9302	1/2

Actual shipping weights may vary.



VA3008AC-E000



VA3009AC-E006

