

## 3-Way Diverting Bronze w/MP Motors

1"– 2"

### 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:

### 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.

Valve					AV330 Linkage 24 VAC Supply			AV330 Linkage <b>330</b> 120 VAC Supply			
Cv	Size (IN)	Thd NPT	Trim	Valve Code	Shut Off PSID	Fail Closed MP361 Motor CP9302 Drive Actuator Code	Fail Open MP371 Motor CP9302 Drive Actuator Code	Fail Last Pos. MP381 Motor CP9302 Drive Actuator Code	Fail Closed MP465 Motor CP9302 Drive Actuator Code	Fail Open MP475 Motor CP9302 Drive Actuator Code	Fail Last Pos. MP485 Motor CP9302 Drive Actuator Code
12	1.0	250	BRZ	VA3206AA	125	E000	E001	E002	E003	E004	E005
22	1.5	250	BRZ	VA3208AA	125	E000	E001	E002	E003	E004	E005
40	2	250	BRZ	VA3209AA	125	E000	E001	E002	E003	E004	E005

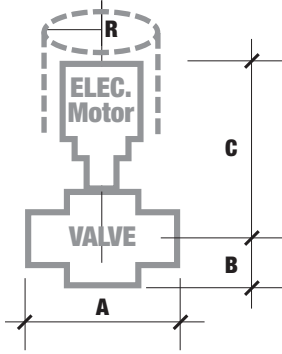
### Actuator Specifications:

Control Signal: 4-20 mAdc (Factory Setting) and 0-10 Vdc. Adjustable, 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  
 Auxillary 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	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	AV330 Linkage	15-5/8	16-1/4	16-1/2
R*	AV330 Linkage	8-1/8	8-1/8	8-1/8

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

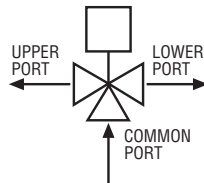
\*Centerline of Valve to Outside Actuator



VA3208AA-E000

### WEIGHTS:

Item	Weight
Valve Size (in.)	LBS.
1	9
1-1/2	16-1/2
2	21
Linkage	LBS.
AV330	3
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.**

