

Single-Seated Cylinder Balanced Iron w/MP Motors

2-1/2" – 6"

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
 Cylinder Seal: EPDM (BRZ Trim) O-Ring
 Fluoraz 797 (300 SS Trim) O-Ring
 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

CYLINDER SEAL TEMPERATURE LIMITS:

+32 to 300° F (BRZ Trim)
 +32 to 300° F (125 FLG w/300 SS Trim)
 +32 to 400° F (250 FLG w/300 SS Trim)

CONFIGURATIONS: Select Valve and Actuator Code in Tables:

Valve						AV330 Linkage 24 VAC Supply			AV330 Linkage 330 120 VAC Supply		
Cv	Size (IN)	Flng.	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
65	2.5	125	BRZ	VA2310CA	175	E000	E001	E002	E003	E004	E005
65	2.5	125	S/S	VA2310CC	175	E000	E001	E002	E003	E004	E005
65	2.5	250	BRZ	VA2310DA	296	E000	E001	E002	E003	E004	E005
65	2.5	250	S/S	VA2310DC	296	E000	E001	E002	E003	E004	E005
90	3	125	BRZ	VA2311CA	175	E000	E001	E002	E003	E004	E005
90	3	125	S/S	VA2311CC	175	E000	E001	E002	E003	E004	E005
90	3	250	BRZ	VA2311DA	222	E000	E001	E002	E003	E004	E005
90	3	250	S/S	VA2311DC	222	E000	E001	E002	E003	E004	E005

Valve						AV352 Linkage 24 VAC Supply			AV352 Linkage 352 120 VAC Supply		
Cv	Size (IN)	Flng.	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
65	2.5	125	BRZ	VA2310CA	175	E006	E007	E008	E009	E010	E011
65	2.5	125	S/S	VA2310CC	175	E006	E007	E008	E009	E010	E011
65	2.5	250	BRZ	VA2310DA	400	E006	E007	E008	E009	E010	E011
65	2.5	250	S/S	VA2310DC	400	E006	E007	E008	E009	E010	E011
90	3	125	BRZ	VA2311CA	175	E006	E007	E008	E009	E010	E011
90	3	125	S/S	VA2311CC	175	E006	E007	E008	E009	E010	E011
90	3	250	BRZ	VA2311DA	400	E006	E007	E008	E009	E010	E011
90	3	250	S/S	VA2311DC	400	E006	E007	E008	E009	E010	E011
170	4	125	BRZ	VA2313CA	175	E006	E007	E008	E009	E010	E011
170	4	125	S/S	VA2313CC	175	E006	E007	E008	E009	E010	E011
170	4	250	BRZ	VA2313DA	400	E006	E007	E008	E009	E010	E011
170	4	250	S/S	VA2313DC	400	E006	E007	E008	E009	E010	E011
280	5	125	BRZ	VA2314CA	175	-	-	E008	-	-	E011
280	5	125	S/S	VA2314CC	175	-	-	E008	-	-	E011
280	5	250	BRZ	VA2314DA	318	-	-	E008	-	-	E011
280	5	250	S/S	VA2314DC	318	-	-	E008	-	-	E011
360	6	125	BRZ	VA2315CA	175	-	-	E008	-	-	E011
360	6	125	S/S	VA2315CC	175	-	-	E008	-	-	E011
360	6	250	BRZ	VA2315DA	227	-	-	E008	-	-	E011
360	6	250	S/S	VA2315DC	227	-	-	E008	-	-	E011

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.

2-1/2" – 6"

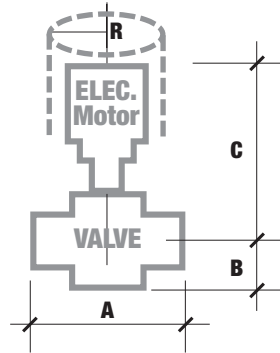
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Actuator Specifications:

Control Signal: 4-20 mAdc (Factory Setting), and 0-10 Vdc, Adjustable, Field-Selectable
 Control Action: Increasing Signal Closes Valve (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 (w/AV330) or Cast Iron Yoke (w/AV352). 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

For more Details:

MP Motor-Actuator Product Sheet - pg. 87 (BAC Catalog)



VA2310CA-E000

ROUGHING DIMENSIONS (IN):

Component		Dimension by Valve Size (IN)				
variable		2-1/2	3	4	5	6
A	125 FLG	9	10	13	15-3/4	17-3/4
A	250 FLG	9-5/8	10-3/4	13-5/8	16-5/8	18-5/8
B		4-3/4	5-3/8	6-3/8	5-3/4	6-1/2
C	AV330 Linkage	18-1/2	19-3/8	20-1/2	21	21-5/8
C	AV352 Linkage	17-3/4	18-5/8	19-3/4	20-1/4	20-7/8
R*	AV330 Linkage	8-1/8	8-1/8	N/A	N/A	N/A
R*	AV352 Linkage	12	12	12	12	12

Allow 4-1/8 inch clearance above actuator for removal / service (AV330).

Allow 5-3/8 inch clearance above actuator for removal / service (AV352).

*Centerline of Valve to Outside Actuator



VA2315DC-E006

WEIGHTS:

Item	Weight	
Valve Size (IN)	125FLG (LBS)	250FLG (LBS)
2-1/2	57	66
3	75	80
4	127	139
5	149	181
6	197	256
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.

