

### APPLICATION:

Control of Water; Water and Glycol Solutions to 50%.  
Valves divert one flow into two directions (Diverting). Seat Closure ANSI Class II\*

### CONSTRUCTION:

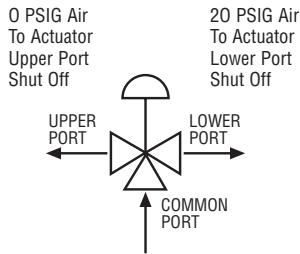
Body: ANSI B16.15 Bronze 250lb. Threaded (NPT)  
Trim: Linear, Bronze  
Stem: 316 Stainless Steel  
Bonnet: Brass / Bronze  
Packing: Guided Low-Friction TFE V-Ring, Self Adjusting  
O-Ring: EPR

### TRIM LIMITS (Flowing Differential Pressure):

S/S 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					50 Actuator 20 PSIG Supply			
Cv	Size	Thd NPT	Trim	Valve Code	8-13 PSIG Range		w. 42 Positioner	
					Shut Off PSID	Actuator Code	Shut Off PSID	Actuator Code
12	1	250	BRZ	VA3206AA	100	D001	100	D003
22	1.5	250	BRZ	VA3208AA	100	D001	100	D003
40	2	250	BRZ	VA3209AA	100	D001	100	D003

### 50 Actuator Specifications:

Effective Area: 50 Square Inches  
Construction: Aluminum Yoke and Diaphragm Chamber with Neoprene Diaphragm.  
Mounting: Vertical Above Valve

Valve					84 Actuator 20 PSIG Air Supply							
Cv	Size	Thd NPT	Trim	Valve Code	9-15 PSIG Range		3-15 PSIG Range		w.42 Positioner		w.760P Positioner	
					Shut Off PSID	Actuator Code	Shut Off PSID	Actuator Code	Shut Off PSID	Actuator Code	Shut Off PSID	Actuator Code
12	1	250	BRZ	VA3206AA	125	D008	125	D004	125	D012	125	D016
22	1.5	250	BRZ	VA3208AA	125	D008	125	D004	125	D012	125	D016
40	2	250	BRZ	VA3209AA	125	D008	125	D004	125	D012	125	D016

### 84 Actuator Specifications:

Effective Area: 84 Square Inches  
Construction: Acrylic Enamel Coated Iron Yoke and Steel Diaphragm Chamber with Buna-N Diaphragm.  
Mounting: Vertical Above Valve

### Control Action:

Increasing Signal Closes Lower Port/Opens Upper Port  
Operating Range may differ from Signal Range,  
Use a Positioner to Match Ranges

### 42 Positioner Specifications:

Control Signal: 3-15 PSIG (Factory Setting)  
Adjustable/Non-Reversible  
Air Supply/Consumption: 20 PSIG/Approx 0.012 SCFM

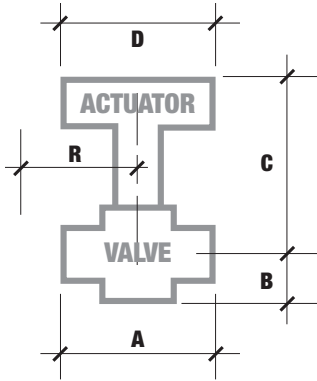
### 760P Positioner Specifications:

Control Signal: 3-15 PSIG (Factory Setting)  
Adjustable/Reversible  
Air Supply/Consumption: 20 PSIG/Approx 0.020 SCFM

1"– 2"

3-Way Diverting Bronze

Diaphragm-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	50 Actuator	15-1/2	16-1/8	16-3/8
C	84 Actuator	18-7/8	19-1/2	19-3/4
D	50 Actuator	10-1/2	10-1/2	10-1/2
D	84 Actuator	13-7/8	13-7/8	13-7/8
R*	50 w.42	7-1/2	7-1/2	7-1/2
R*	84 w.42	9	9	9
R*	84 w.760P	8-1/8	8-1/8	8-1/8

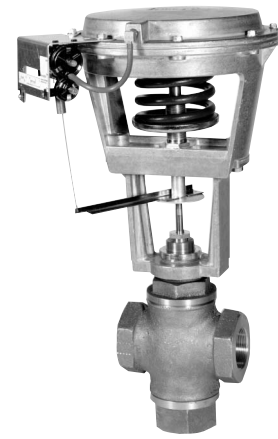
**Allow 4-1/8 inch clearance above actuator for removal / service.**

\*Centerline of Actuator to Outside point of Positioner

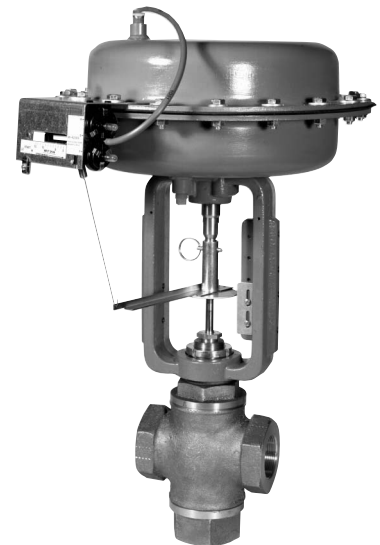
**WEIGHTS:**

Item	Weight
Valve Size (in.)	LBS.
1	9
1-1/2	16-1/2
2	21
Actuator	LBS.
50	13
84	48-1/2
Positioner	LBS.
42	1
760P	8

**Actual shipping weights may vary.**



VA3208AA-D003



VA3208AA-D012

