



## Electric Globe Control Valve

### Specifications

**Sizes:** 1/2" - 4"  
**Materials:** PVC, PP, PVDF and PTFE  
**Model:** Flanged (ANSI)  
**Stem Seal:** PTFE Bellows  
**Valve Seal:** FKM, EPDM, PTFE encapsulated FKM  
**Flow Char.:** Linear or equal percentage  
**Rangeability:** 1: 50 for 1/2" - 3", 1: 30 for 4"  
**Temp. Range:** PVC 32- 140° F, PP -5 - 175° F  
 PVDF -5 - 265° F, PTFE -5 - 284° F

### Standard Features

- Precise flow control
- Solid thermoplastic valve body provides excellent corrosion resistance
- PTFE bellows stem seal eliminates old style packing glands and minimizes maintenance
- Positive bubble tight shut-off
- Plug and seat can be changed to accommodate a variety of valve coefficients (Cv)
- Plug (trim) can be characterized (linear or equal percentage) per requirements, See below
- No metal to media contact
- Extremely corrosion resistant actuator constructed of glass-filled Polyester (PEG) with SS trim
- 115 VAC/1ph supply voltage
- Manual Override

### Options

- Supply Voltage
- 4-20mA Positioner
- 4-20mA Output Transmitter
- Extra (Auxiliary) Limit Switches

### Parts List (Sizes 1/2" - 4")

PARTS			
NO.	DESCRIPTION	PCS.	MATERIAL
1	Electric Actuator	1	Polyester Glass Filled (PEG)
2	Manual Override	1	Polyester Glass Filled (PEG)
4	Actuator Valve Stem	1	316 Stainless Steel
6	Actuator Standoffs	2	316 Stainless Steel
7	Position Indicator	1	316 Stainless Steel
8	Bellows Seal O-Ring	1	EPDM, FKM, PTFE Encapsulated FKM
9	Bellows Housing	1	PVC, PP, PVDF, PTFE
10	Body O-Ring	1	EPDM, FKM, PTFE Encapsulated FKM
11	Bellows	1	PTFE
12	Seat O-Ring	1	EPDM, FKM, PTFE Encapsulated FKM
13	Valve Seat	1	PVC, PP, PVDF, PTFE
14	Valve Plug	1	PVC, PP, PVDF, PTFE
15	Valve Body	1	PVC, PP, PVDF, PTFE

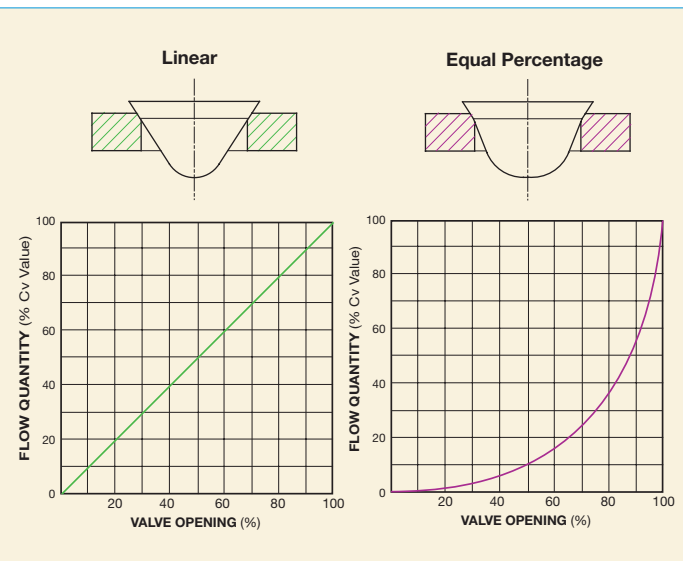
### Sample Specification

All Thermoplastic modulating control valves shall be of the Globe Valve design. Valves shall have interchangeable seat and plugs to accommodate various flow coefficients (Cv) and flow characteristics shall be either linear or equal percentage. Stem seal shall be PTFE and of the bellows design. Electric actuator shall be constructed of glass-filled polyester (PEG) with SS trim. Actuator shall operate with 115 VAC/1ph supply voltage and have a visual position indicator. PVC shall conform to ASTM D1784 Cell Classification 12454-A, PP conforming to ASTM D4101 Cell Classification PPO210B67272, and PVDF conforming to ASTM D3222 Cell Classification Type II. and PTFE shall conform to PTFE TFE 1600, as manufactured by AsahiAmerica, Inc.

*ASAHI/AMERICA RECOMMENDS THE USE OF AV GASKETS FOR THIS PRODUCT LINE*

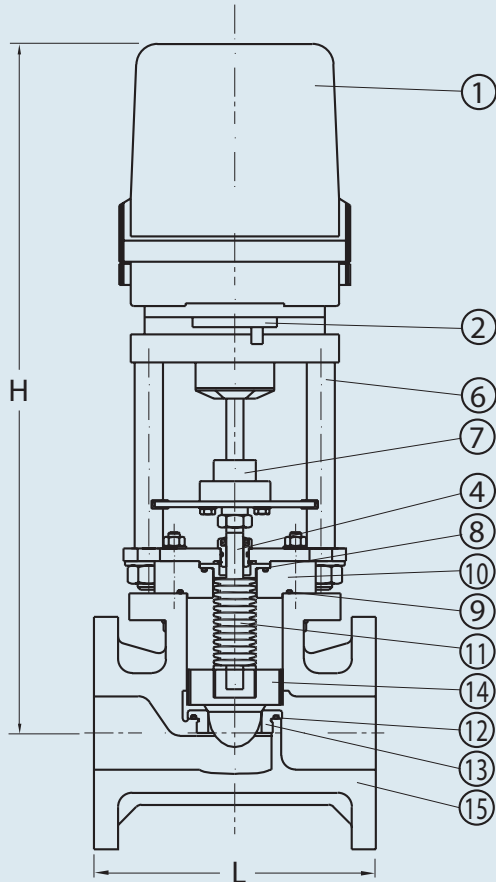
### Caution

- Never remove valve from pipeline under pressure.
- Always wear protective gloves and goggles.

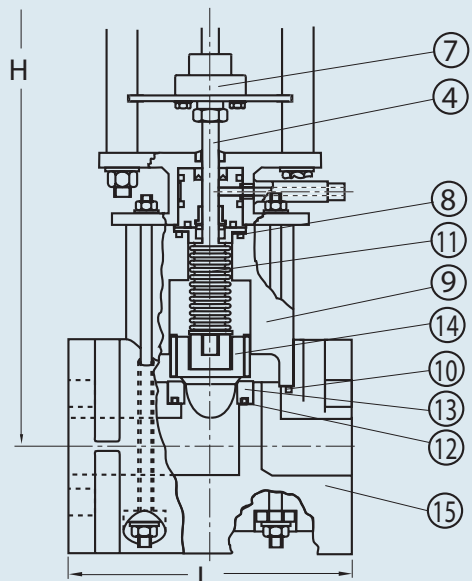


# Globe Control Valves

## PVC/PP



## PVDF/PTFE



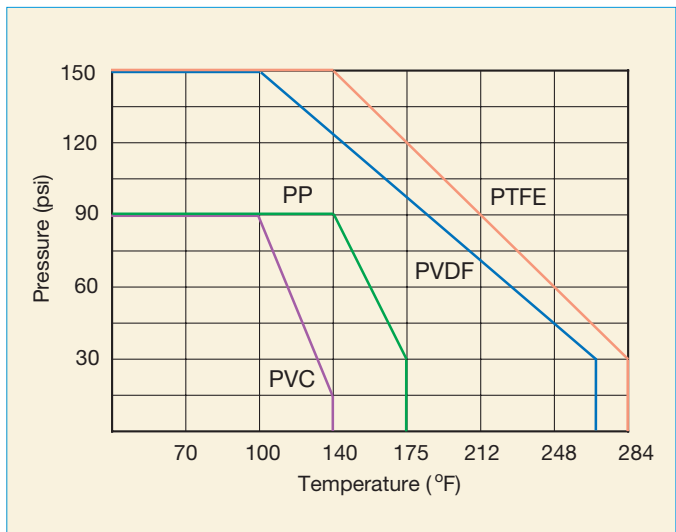
## Dimensions (INCHES)

NOMINAL SIZE		PVC, PP		PVDF, PTFE	
INCHES	mm	L	H	L	H
1/2	15	3.35	18.70	5.12	19.69
3/4	20	3.74	18.70	5.91	19.88
1	25	4.33	18.90	6.30	19.88
1 1/4 *	32	5.31	19.09	7.09	20.08
1 1/2	40	7.48	19.09	7.87	20.28
2	50	7.87	20.47	9.06	20.47
2 1/2	65	8.66	19.09	11.42	21.46
3	80	9.45	20.08	12.20	21.85
4	100	11.42	20.28	13.78	21.81

\* PP Not Available

## Operating Pressure vs. Temperature

(PSI, WATER, NON-SHOCK)



## Troubleshooting

### What if fluid flows even when fully closed?

1. Plug or seat is damaged.
2. Foreign matter caught or formed at plug and seat.

### What if it does not open?

1. No supply voltage
2. No instrument signal
3. Blown fuse in supply voltage line

### What if fluid leaks from body?

1. Bolts for bellows housing are not tight
2. O-ring(s) chemically attacked.