



Y-PATTERN GLOBE VALVES



Y-Pattern Globe Valves are angle seat valves that provide proportional opening to seating disc travel. They are available in sizes 1/2 through 4 inch and are used primarily for throttling purposes. Y-pattern globe valves may be considered general purpose flow control valves. They are generally faster to open and close than gate valves. The seating surfaces are less subject to wear and their high pressure drop makes them useful controlling pressures. The Y-pattern configuration reduces pressure loss over that of standard globe valves.

- Chemical & Corrosion Resistant PVC Gray, PVC Clear, or CPVC Gray Construction
- High Impact Polypropylene Handle
- Buttress Thread Bonnet
- Assembled with Silicone-Free, Water Soluble Lubricants
- Fully Serviceable, Replaceable Components
- 150 psi @ 73°F for 1/2 to 2 inch models
- Standard O-ring Seal Seating Disc & Seals
- 90 psi @ 73°F for 3 to 4 inch models
- EPDM or FKM O-rings
- Made in USA

Cv Values

Size Inches	Cv Value
1/2	6.7
3/4	12.6
1	22.9
1-1/4	33.8
1-1/2	50.7
2	79.2
3	235
4	387

Temperature Pressure Rating

Sys. Op. Temp. °F	Valve Pressure Rating PSI			
	1/2 to 2 inch		3 to 4 inch	
	PVC	CPVC	PVC	CPVC
100	150	150	90	90
110	135	140	85	85
120	110	130	75	80
130	75	120	60	75
140	50	110	40	70
150	—	100	—	60
160	—	90	—	50
170	—	80	—	45
180	—	70	—	40
190	—	60	—	35
200	—	50	—	30

ORDERING INFORMATION

Part Number Matrix:

YGV (CS) (BM) – (OM) – (EC)

(CS) Connection Size

05 = 1/2 inch 20 = 2 inch
 07 = 3/4 inch 30 = 3 inch
 10 = 1 inch 40 = 4 inch
 12 = 1-1/4 inch
 15 = 1-1/2 inch

(BM) Body Material

PC = PVC Clear
 PG = PVC Gray
 CG = CPVC Gray

(OM) O-ring Material

E = EPDM
 F = FKM

(EC) End Connectors

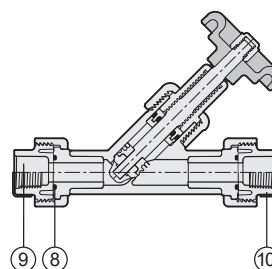
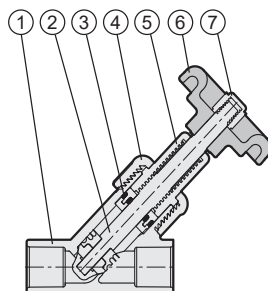
SOC = Socket
 SRT = SR Thread
 FLG = Flange
 SUN = Socket Union
 STU = SR Thread Union

Examples:

YGV10PC-E-SOC = Clear PVC Valve with 1 inch socket connections and EPDM o-rings

YGV40CG-F-FLG = Gray CPVC Valve with 4 inch flange connections and FKM o-rings

REPLACEMENT PARTS AVAILABLE



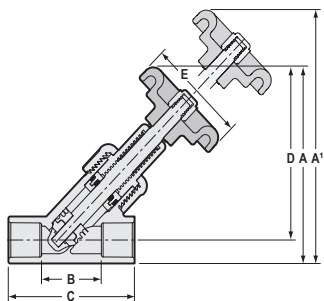
1. Body (Qty 1)
2. Stem Assembly (Qty 1)
3. Seal Carrier O-ring (Qty 1)
4. Bonnet Nut (Qty 1)
5. Bonnet (Qty 1)
6. Handwheel (Qty 1)
7. Stem Nut (Qty 1)
8. Union O-ring (Qty 2)
9. Union Socket End (Qty 2)
10. Union SR Thread End (Qty 2)

VALVES



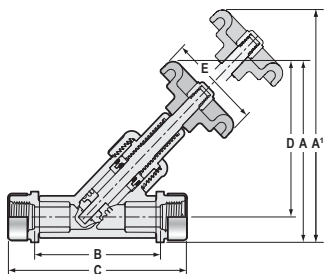
Y-PATTERN GLOBE VALVES

Socket Y-Pattern Globe Valves — Dimensions and Weights



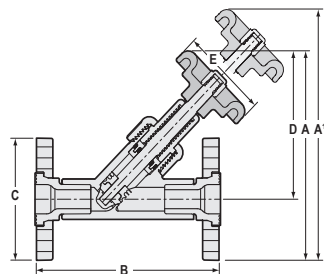
Nominal Size Inches	Dimension Reference Inches, $\pm 1/16$						Approx Wt. Lb.	
	A'	A	B	C	D	E	PVC	CPVC
1/2	6-3/8	4-9/16	1-5/8	3-3/8	4	2-3/8	0.31	0.33
3/4	7-1/2	5-1/4	2	4	4-9/16	2-3/8	0.50	0.53
1	6-15/16	5-7/8	2-1/2	4-3/4	5-1/8	2-3/8	0.78	0.90
1-1/4	10-15/16	7-5/8	3-1/16	5-9/16	6-1/2	3-1/2	1.21	1.28
1-1/2	12	8-5/8	3-9/16	6-5/16	7-1/2	3-1/2	1.66	1.76
2	13-13/16	9-15/16	4-1/2	7-1/2	8-1/2	3-1/2	2.96	3.10
3	20	14-1/2	6-9/16	10-5/16	12-7/16	6-5/8	5.34	5.64
4	25-1/2	18-1/4	8-5/8	13-1/8	15-5/8	7-15/16	9.97	10.45

SR Thread Y-Pattern Globe Valves — Dimensions and Weights



Nominal Size Inches	Dimension Reference Inches $\pm 1/16$						Approx Wt. Lb.	
	A'	A	B	C	D	E	PVC	CPVC
1/2	6-1/2	4-11/16	3-5/8	5-1/16	4	2-3/8	0.31	0.33
3/4	7-5/8	5-7/16	4-3/8	5-13/16	4-9/16	2-3/8	0.50	0.53
1	8-5/8	6-1/8	5-3/16	7	5-1/8	2-3/8	0.85	0.90
1-1/4	11-1/8	7-3/4	6	7-15/16	6-1/2	3-1/2	1.21	1.28
1-1/2	12-1/4	8-7/8	6-15/16	8-13/16	7-1/2	3-1/2	1.66	1.76
2	14-1/16	10-3/16	8-1/8	10-1/8	8-1/2	3-1/2	2.96	3.10
3	20	14-13/16	11	14-1/4	12-7/16	6-5/8	5.34	5.64
4	25-13/16	18-1/2	14	14-3/4	15-5/8	7-15/16	9.97	10.45

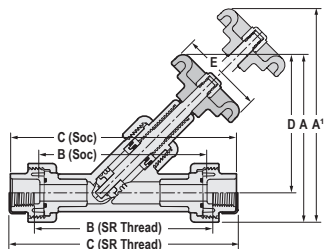
Flange Y-Pattern Globe Valves — Dimensions and Weights



Nominal Size Inches	Dimension Reference Inches $\pm 1/16$						Approx Wt. Lb.	
	A'	A	B	C	D	E	PVC	CPVC
1/2	7-9/16	5-3/4	5-11/16	3-1/2	4	2-3/8	0.82	0.85
3/4	8-3/4	6-1/2	6-7/16	3-7/8	4-9/16	2-3/8	1.23	1.28
1	9-3/4	7-1/4	7-1/4	4-1/4	5-1/8	2-3/8	1.70	1.81
1-1/4	12-1/4	8-7/8	8-1/8	4-5/8	6-1/2	3-1/2	2.40	2.52
1-1/2	13-3/8	10	9-3/16	5	7-1/2	3-1/2	3.07	3.25
2	15-3/8	11-1/2	10-3/8	6	8-1/2	3-1/2	5.20	5.42
3	21-11/16	16-3/16	12-1/16	7-1/2	12-7/16	6-5/8	9.44	10.07
4	27-7/16	20-3/16	14-9/16	9-1/16	15-5/8	7-15/16	14.87	16.15

NOTE: 4 inch flange Y-Pattern Globe Valves use split flange ring.

True Union Y-Pattern Globe Valves — Dimensions and Weights



Nominal Size Inches	Dimension Reference Inches ±1/16								Approx Wt. Lb.	
	A ¹	A	B		C		D	E	PVC	CPVC
			Socket	SR Thread	Socket	SR Thread				
1/2	7	5-3/16	5-1/8	5-1/2	6-7/8	7	4-1/4	2-5/8	0.59	0.62
3/4	8-3/16	6	5-7/8	6-7/16	7-7/8	7-7/8	4-7/8	2-5/8	0.97	1.02
1	9-1/8	6-5/8	6-1/2	7-3/8	8-3/4	9	5-3/8	2-5/8	1.33	1.41
1-1/4	11-1/2	8-3/16	7-7/16	6-3/16	9-15/16	10-1/8	6-5/8	3-1/2	1.53	1.63
1-1/2	12-13/16	9-3/8	8-3/16	9	10-15/16	10-15/16	7-9/16	3-1/2	3.06	3.25
2	14-9/16	10-11/16	9-7/16	10-13/16	12-7/16	12-13/16	8-5/8	3-1/2	4.90	5.16
3	21-1/8	15-5/8	13-5/8	15-3/8	17-3/8	18-3/16	12-1/2	6-5/8	14.06	14.37
4	25	19-7/16	17-1/16	19-1/4	21-5/8	22-5/16	7-15/16	7-15/16	17.39	19.23