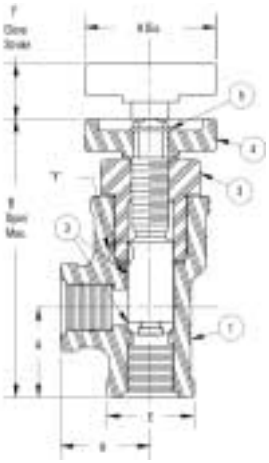
PVC Angle and Y-Pattern

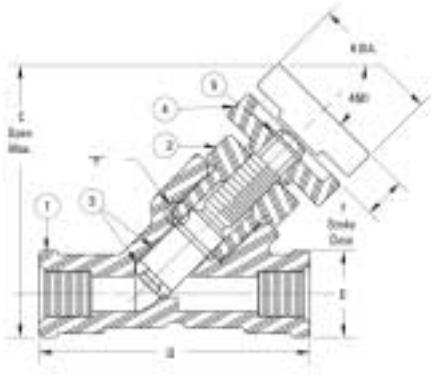
150 psi at 73°F water–non-shock

Chemtrol Figure No.
T45AC-V

Chemtrol Figure No.
T45YP-V

Both styles available with threaded end connections only.



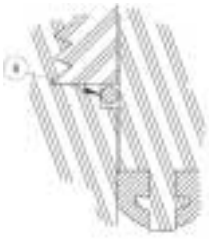


Both styles of Chemtrol Globe Valves, the angle and the Y-pattern, utilize interchangeable components within any given valve size. Only the bodies are different. The Y-pattern style has a minimal pressure-drop, even when compared with a conventional upright style globe valve. Therefore, it is an excellent choice for combination on-off and throttling applications.

The Chemtrol Angle Valve is used where a higher pressure-drop is desirable. One of its more common applications is as a pump by-pass control valve.

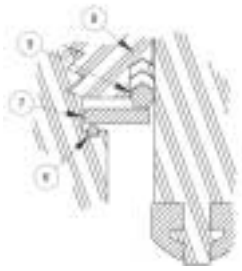
Features

- Malleable glass reinforced PTFE (Teflon) seat disk ensures long-lasting positive sealing.
- Stub acme thread on stem provides rapid open-close operation.
- Liquid or slurry never touches stem threads.
- Can be used for both on-off and throttling control of fluid flow.
- Easy in-line maintenance.
- PVC construction with PTFE seat and FPM seals.



Detail "Y" Enlarged View
1/4" Size Valve

Detail "Y" Enlarged View
1/2" & 3/4" Size Valve



Detail "Y" Enlarged View
1" Size Valve

Valve Construction

Part		Material
1. Body	– Angle	PVC
	– or Y-Pattern	PVC
2. Bonnet		PVC
3. Stem Assembly		PVC w/ Glass Filled PTFE Seat Disk
4. Handle		PVC
5. Snap Ring Retainer		Zinc Plated Steel
6. O-Ring – Body Seal		FPM[2]
7. Energizer Back-Up Washer[1]		PVC
8. CV Stem Seal (2 required)[1]		PTFE (Teflon)
9. O-Ring – Stem Seal Energizer[1]		FPM[2]

1 Items not required for 1/4" valve.
2 FPM is also known as FKM. These seals are molded from Viton or Fluorel brands of rubber.

Notes

For more insight into the selection of materials, refer to *Materials,* page 1. For the specific relationship of pressure vs. temperature, refer to *Engineering Data,* page 33. For *Chemtrol Valve Standards,* see page 35.

Valve Dimensions – Weights – Flow Coefficients

	Common Dimensions			Angle Valve[1]				Y-Pattern Valve[1]			
Valve Size	Hub Dia. E	Close Stroke F	Handle Dia. H	Center-To-Face A	Open Max. B	Flow Coef. C_V[2]	Approx. Weight Lbs.	End-To-End D	Open Max. C	Flow Coef. C_V[2]	Approx. Weight Lbs.
1/4	0.88	.44	1.32	0.88	3.56	1.1	0.11	2.75	2.75	3.1	0.12
1/2	1.25	.75	2.19	1.31	5.38	5.4	0.28	3.50	4.63	17.7	0.30
3/4	1.50	.94	2.19	1.41	6.50	9.9	0.47	4.25	5.56	32.5	0.53
1	1.75	1.19	2.19	1.88	7.88	15.8	0.69	5.00	6.31	49.3	0.73

1 Available with threaded end connections only.
2 C_v measured with valves completely open.

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