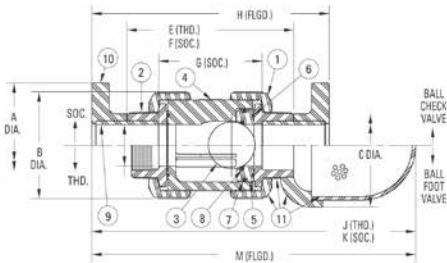


PVC and CPVC True Union Ball Check, Foot, and Vent Valves



Chemtrol Figure Numbers				
Type Valve	End Conn	Elastomeric Trim	Materials	
Ball Check Valve				PVC CPVC
	Soc.	FKM EPDM	U45BC-V ¹ U45BC-E ¹	U51BC-V ¹ U51BC-E ¹
	Thd.	FKM EPDM	U45BC-V ¹ U45BC-E ¹	U51BC-V ¹ U51BC-E ¹
	Flgd.	FKM EPDM	F45BC-V F45BC-E	F51BC-V F51BC-E

1 1/2"-2" PVC and CPVC TU ball check figures are supplied with universal connection components (i.e., a set of both socket and threaded end connectors). For 3" and 4" sizes of PVC and CPVC BC valves, replace U in the figure no. with S or T for socket or threaded units respectively.



PVC and CPVC True Union Ball Check, Foot, and Vent Valves

Dimensions—Weights—Flow Coefficients

Valve Size	Ball Check/Foot				Ball Check Valve				
	A	B	C	D	E Thd.	F Soc.	G Soc.	H Flgd.	Approx. ² Wt. Lbs.
1/2	3.50	1.98	2.63	0.50	3.94	4.13	2.36	6.27	0.42
3/4	3.88	2.44	2.63	0.75	4.65	5.02	3.00	7.38	0.72
1	4.26	2.83	3.63	1.00	5.08	5.40	3.12	7.99	1.05
1 1/4	4.62	4.08	5.50	1.25	6.38	6.75	4.22	9.65	2.46
1 1/2	5.00	4.08	5.50	1.50	6.38	6.99	4.21	10.18	2.62
2	6.00	5.23	5.50	2.00	7.36	8.02	4.99	11.45	4.76
3	7.50	7.17	5.50	3.00	9.98	9.98	6.17	14.22	9.21
4 ⁴	9.00	7.17	5.50	3.00	20.76	20.76	16.20	16.14	14.18

Valve Size	Ball Foot Valve				Seating Head Ft - H ₂ O		Fluid Flow Coefficient
	J Thd.	K Soc.	M Flgd.	Approx. ³ Wt. Lbs	Vert.	Horiz.	C _v ³
1/2	6.13	6.19	7.25	0.23	6	7	5
3/4	6.88	7.13	8.25	0.29	6	7	10
1	8.13	8.25	9.63	0.37	4	5	19
1 1/4	11.13	11.25	12.75	1.34	4	5	37
1 1/2	11.13	11.50	13.13	1.34	4	5	56
2	11.75	12.13	13.75	1.88	4	5	101
3	13.38	13.38	15.63	3.00	3	4	251
4 ⁴	18.50	18.50	16.25	3.00	3	4	251

1 Foot valve screen housing assemblies are available for the field conversion of PVC and CPVC TU ball check valves in sizes 1/2" - 4".

2 Weights shown for ball valve figures are PVC threaded models. For an approximation of CPVC check valve weights, the PVC weight may be multiplied by factor of 1.123. Weights shown for foot valves are actually those for PVC F.V. screen housing assemblies. So, the weight for a CPVC F.V. screen housing assy. may be found by multiplying the PVC weight by the 1.123 factor. These must be added to check valve weight for full foot valve weight.

3 C_v values are based on the basic valve laying length (G).

4 The 4" PVC and CPVC check valves are fabricated by solvent cementing either reducing flanges or reducing couplings onto the ends of a 3" valve with plain-end nipples.