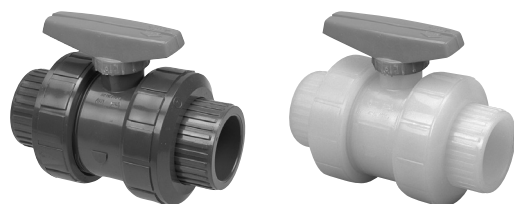


## Black and Chem-Pure® (Natural) Polypropylene Tru-Bloc® True Union Ball Valve, Model C



### Construction Materials

Components <sup>1</sup>	Black PP	Nat. PP
1. Handle	Red PVC	
2. Stem	Nat. PP	Nat. PP
3. Body	Black PP	Nat. PP
4. Seat-Carrier	Nat. PP	Nat. PP
5. Union Nut	Black PP	Nat. PP
6. End Connector	Black PP	Nat. PP
7. Ball	Nat. GBPP <sup>4</sup>	Nat. GBPP <sup>4</sup>
8. Seat <sup>2</sup> ; (2 ea.)	PTFE	
9. O-Ring <sup>3</sup> – Seat-Carrier; End Seal		
10. O-Ring <sup>3</sup> – Body; End Seal		
11. O-Ring <sup>3</sup> – Stem; OD Seal		
12. O-Ring <sup>3</sup> – Seat-Carrier; OD Seal		
13. O-Ring <sup>3</sup> – Seat-Carrier; Seat Energizer		
14. Flange – 2 ea. Socket-End	Black PP	N.A.
15. Plain-End Nipple; 2 ea. Spg x Spg	Black PP	N.A.
16. Stem; Friction Washer (4" Only)	PTFE	
17. Handle Bolt (4" Only)	Nat. PP	

1 All components except valve bodies are available as replacement parts.

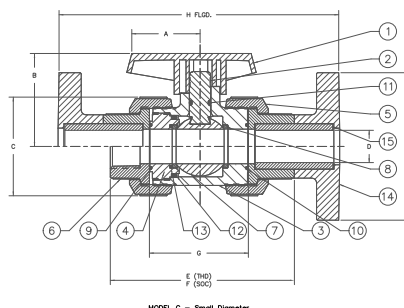
2 Each replacement PTFE seat kit contains two seats.

3 Each replacement O-ring kit contains all the O-rings required to refurbish a particular size True Union Ball or Check Valve (regardless of model or style), or a minimum of two pipe unions.

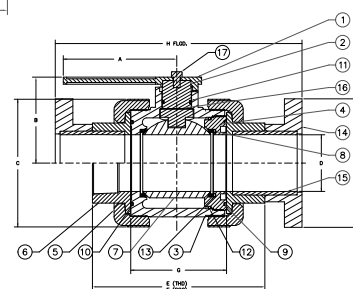
4 Polypropylene filled with glass micro-beads.

### Features

- Rated at 150 psi with non-shock water service at 73°F
- Designed with an energizer O-ring beneath the seat-carrier, Model C valves automatically adjust for seat wear.
- Full port design produces minimum flow restriction with the lowest possible pressure-drop.
- Valves are manufactured and assembled without exposure to silicone compounds.
- Distinctive red handle indicates “open/close” and direction of flow at a distance.



MODEL C – Small Diameter



MODEL C – Large Diameter 4" & 6"

### Chemtrol Figure Numbers

Valve Sizes	Materials	Elastomeric Trim	End Connections		
			Soc.	Thd.	Flgd.
1/2"–4"	Black Polypro	FKM	S61TB-V <sup>1</sup>	T61TB-V <sup>1</sup>	F61TB-V <sup>1</sup>
1/2"–4"	Natural Polypro	FKM	S62TB-V <sup>2</sup>	T62TB-V <sup>2</sup>	NA <sup>2</sup>

1 Flanged figures are not available in the 1 1/4" size.

2 Socket Chem-Pure® (natural PP) Valves are available in the range of sizes shown except for the 1 1/4" size. Socket valves may be converted to threaded by exchanging the socket end connector with a threaded end connector. Flanged figures are not available.

### Dimensions–Weights–Flow Coefficients

Valve Size	Profile						End-to-End					Fluid Flow Coefficient
	A <sup>1</sup>	B	C	D	N	P	E Thd.	F Soc.	G Soc.	H Flgd.	Approx. <sup>2</sup> Wt. Lbs.	
1/2	1.70	1.94	1.96	0.50	2.98	3.44	4.19	4.19	2.49	6.04	0.32	22
3/4	2.12	2.50	2.41	0.75	3.63	3.82	5.00	5.00	3.05	7.32	0.58	56
1	2.12	2.69	2.76	1.00	4.13	4.20	5.50	5.50	3.30	8.06	0.76	113
1 1/4	2.56	3.74	4.01	1.25	4.70	4.55	6.47	N/A	N/A	N/A	1.69	180
1 1/2	2.56	3.74	4.01	1.50	4.98	4.91	6.76	6.76	4.06	9.92	1.79	288
2	2.92	4.25	5.13	2.00	5.78	5.87	8.01	8.01	5.06	11.41	3.52	544
3	4.00	5.59	7.04	2.97	7.42	7.41	10.39	10.39	6.70	14.87	7.98	1348
4	8.00	6.05	8.59	4.01	8.52	8.85	12.22	12.22	7.78	17.52	15.78	2602

1 Handle is not symmetrical about centerline. Dimension shown represents the longest operational radius, but the handle position must be rotated 180° from that shown for the 4" size.

2 Weight shown represents the polypropylene threaded figure.

3 C<sub>v</sub> values were computed for basic valve laying lengths (G).

4 No flanged figures are offered in any size for natural PP.

### Maximum Operating Pressure (psi vs. Temperature)

Operating Temperature (F)	PP	PVDF	Operating Temperature (F)	PP	PVDF	Operating Temperature (F)	PP	PVDF
100	150	150	150	93	140	200	N.R.	97
110	140	150	160	80	133	250	N.R.	50
120	130	150	170	70	125	280	N.R.	25
130	118	150	180	60	115			
140	105	150	190	N.R.	106			

N.R. - Not recommended