## PVC and CPVC Tru-Bloc $^{\ensuremath{\$}}$ True Union Ball Valve, Model C

Construction Materials					
Components <sup>1</sup>	PVC	CPVC			
1. Handle	Orange PVC				
2. Stem	PVC	CPVC			
3. Body	PVC	CPVC			
4. Seat-Carrier	PVC	CPVC			
5. Union Nut	PVC	CPVC			
6. End Connector	PVC	CPVC			
7. Ball	PVC	CPVC			
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	FKM or EPDM				
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	PVC	CPVC			
15. Plain-End Nipple; 2 ea. Spg x Spg	PVC	CPVC			
16. Stem; Friction Washer (4" & 6" Only)	PTFE				
17. Handle Bolt (4" & 6" Only)	PVC				

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

2 Each replacement PTFE seat kit contains two seats.

3 Each replacement 0-ring kit contains all the 0-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.

Chemtrol Figure Number									
Valve	Elasto- meric		PVC		CPVC				
Style	Trim	Soc.	Thd.*	Flgd.	Soc.	Thd.*	Flgd.		
TU/TB	FKM	S45TB-V	T45TB-V	F45TB-V	S51TB-V	T51TB-V	F51TB-V		
	EPDM	S45TB-E	T45TB-E	F45TB-E	S51TB-E	T51TB-E	F51TB-E		

\* Thread end connections are not available for 6" valves.

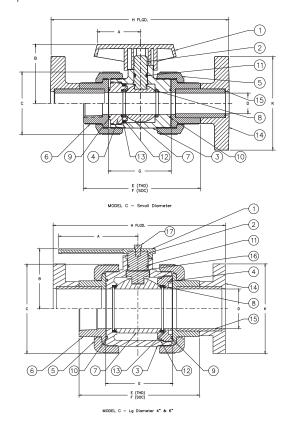
Bunon		Torginto	11011	0001110	Tomto						
Valve	A1	В	С	D	Ν	Р	E	F	G	Н	Approx. <sup>2</sup>
Size							Thd.	Soc.	Soc.	Flgd.	Wt. Lbs.
3	4.00	5.59	7.18	3.00	7.42	7.50	10.39	10.39	6.58	14.63	11.25
4	8.00	6.05	8.78	4.00	8.52	9.00	12.22	12.22	7.66	17.63	17.68
64	8.00	6.05	8.78	4.00	11.90	11.05	NA	30.22	24.16	24.08	29.25

Maximum Non-Shock Pressure Ratings (psi) vs. Temperature

"Maximum Operating Pressure (psi) vs. Temperature"						
"Operating						
Temperature (F)"	PVC	CPVC				
100	150	150				
110	135	140				
120	110	130				
130	75	120				
140	50	110				
150	N.R.	100				
160	N.R.	90				
170	N.R.	80				
180	N.R.	70				
190	N.R.	60				
200	N.R.	50				
250	N.R.	N.R.				
280	N.R.	N.R.				

## Features

- Rated at 150 psi with non-shock water service at 73°F.
- Designed with an energizer O-ring beneath the PTFE seat, Model D and C valves automatically adjust for seat wear.
- Full-port design producés minimum flow restriction with the lowest possible pressure-drop. 6" ball valve is reduced port.
- Valves are manufactured and assembled without exposure to silicone compounds. Silicone-free lubricant is used to assemble all ball valves.



2	Fluid Flow Coefficient							
S	Valve Size	C <sub>V</sub> <sup>3</sup> TU						
5	3	1348						
В	4	2602						
5	64	2602						

1 Handle is not symmetrical about center line. Dimensions shown represent the longest operational radius. The handle position is correctly shown for the 3" True Union valve style, but the position must be rotated 180° from that shown for the 4" - 6" True Unions.

2 Weight includes socket end connections only for  $3^{\circ}$  -  $6^{\circ}$  sizes. The material represented is PVC in all cases. 3  $C_v$  values computed for basic valve laying lengths (G).

4 The 6" ball valve is a Venturi design derived from the 4" valve: a 4" end connector and a 6"

coupling are connected by a 6" x 4" Venturied reducer, with a union nut captured within the assembly. Threaded end connection not available.

N.R. - Not recommended