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

| Construction Materials | | | | | |
|--|-------------|------|--|--|--|
| Components ¹ | 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 ² ; (2 ea.) PTFE | | | | | |
| 9. O-Ring ³ – Seat-Carrier; End Seal | | | | | |
| 10. O-Ring ³ – Body; End Seal | | | | | |
| 11. O-Ring ³ – Stem; OD Seal | FKM or EPDM | | | | |
| 12. O-Ring ³ – Seat-Carrier; OD Seal | | | | | |
| 13. O-Ring ³ – 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 | | | | | | | | | |
|------------------------|------------------|---------|---------|---------|---------|---------|---------|--|--|
| | 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.

| Dimensions–Weights–Flow Coefficients | Coefficients |
|--------------------------------------|--------------|
|--------------------------------------|--------------|

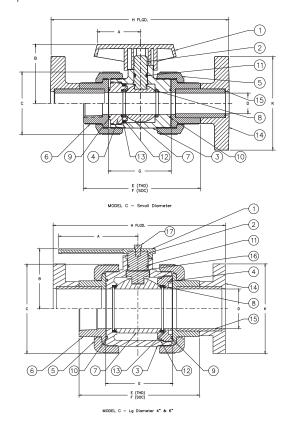
| Bunon | | Torginto | 11011 | 0001110 | Tomto | | | | | | |
|-------|------|----------|-------|---------|-------|-------|-------|-------|-------|-------|----------------------|
| Valve | A1 | В | С | D | Ν | Р | E | F | G | Н | Approx. ² |
| Size | | | | | | | Thd. | Soc. | Soc. | Flgd. | Wt. Lbs. |
| 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 _V ³ TU | | | | | |
| 5 | 3 | 1348 | | | | | |
| 3 | 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° - 6° 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.