

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



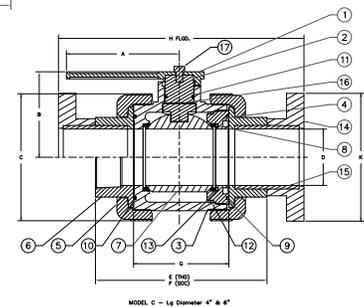
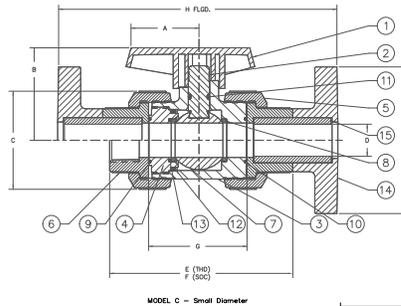
Construction Materials

| Components ¹ | 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 ⁴ | Nat. GBPP ⁴ |
| 8. Seat ² ; (2 ea.) | PTFE | |
| 9. O-Ring ³ – Seat-Carrier; End Seal | FKM | |
| 10. O-Ring ³ – Body; End Seal | | |
| 11. O-Ring ³ – Stem; OD Seal | | |
| 12. O-Ring ³ – Seat-Carrier; OD Seal | | |
| 13. O-Ring ³ – 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 | |

- All components except valve bodies are available as replacement parts.
- Each replacement PTFE seat kit contains two seats.
- 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.
- 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.



Chemtrol Figure Numbers

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

- Flanged figures are not available in the 1 1/4" size.
- 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 ¹ | B | C | D | N | P | E Thd. | F Soc. | G Soc. | H Flgd. | Approx. ² 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 |

- 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.
- Weight shown represents the polypropylene threaded figure.
- C_v values were computed for basic valve laying lengths (G).
- 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