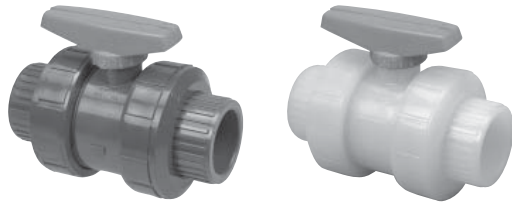


Polypropylene Tru-Bloc® Ball Valves True Union Black and Chem-Pure® (Natural)

150 psi at 73°F water—non-shock—full port



Black Polypropylene

Ultraviolet radiation produces severe degradation of PP. Therefore, all PP piping products, including valves, which Chemtrol® produces for general chemical service, contain a minimum of 2.5% carbon black. By virtue of the masking effect by the unusually high concentration of black pigmentation, a Chemtrol® piping system may be installed for long-term service with exposure to direct sunlight.

Chem-Pure (Natural) Polypropylene

The PP material utilized to produce all of the components in our Chem-Pure® piping products system was selected because of its extremely low content of metals, organic compounds other than naturally pure propylene, and free ions. No pigments or other adulterants (natural) are added to the plastic resin. Chem-Pure® systems are intended for high purity chemicals or DI water.

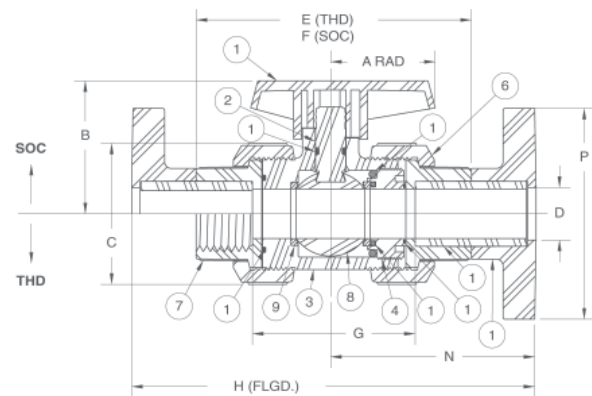
Features

- The laying length of the body and the heavy-duty modified-acme threads in the union connections to the body have not changed in the 40-year history of the valve. This permits fouled valve replacement with a new body cartridge, which will fit the old union nuts. No change in piping length is required.
- Model C design features, under the PTFE seats at both ends of the valve, ensure no leakage around the back-side of the seats. Open piping attached to a filled tank will not start to drip-leak following installation and test of a Chemtrol® Tru-Bloc® shut-off valve.
- Model C design, with an energizer O-ring beneath the seat-carrier, enables the valve to automatically adjust for seat wear. Adjustments for envelope squeeze on seats and valve testing are done by machine during factory assembly. Upon installation, a hand-tightened union nut serves to compress the face-seal of a Chemtrol® valve.
- 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. And molded-in arrows on top of the handle dictate rotational direction to personnel for easy operation within 90° stops. For applications requiring handle removal, the D-ring stem flats indicate “open/close” and a molded-in arrow on top of the stem indicates flow direction.

Notes

See page 2 for a list of *Components And Construction Materials*. For more insight into the selection of materials, refer to *Materials*, page 1. *Actuation Mounting Data* and a complete listing of *Optional Accessories* for ball valves begins on page 20. *Installation and Maintenance Instructions* for these valves appear on page 9. For specific relationships of pressure vs. temperature ratings refer to *Engineering Data*, page 29. For *Chemtrol Valve Standards*, see page 30.



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	S62TB-V ²	NA ²

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 C _v ³
	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

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_v values were computed for basic valve laying lengths (G).

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