

Model D - 250 PSI Tru-Bloc, True Union Ball Valves
1/2" through 1" Nominal Sizes**Scope:**

This specification establishes the manufacturing requirements for dual-blocking (Tru-Bloc) and downstream-only blocking (true union) quarter-turn ball valves of PVC and CPVC materials intended for use in industrial, commercial, and residential pressure-piping systems, where cost effective, long-term resistance to corrosion is of prime importance, and the service temperature does not exceed: PVC, 140° F; CPVC, 210° F.

Major component parts shall be constructed from one of the following:

NPS 1/2" – 1" PVC (polyvinyl chloride), Cell Class 12454 per ASTM D1784, industrial gray in color, and the valve style shall be full-port Tru-Bloc.

NPS 1/2" – 1" CPVC (chlorinated polyvinyl chloride), Cell Class 24448 per ASTM D1784, industrial light gray in color, and the valve style shall be full-port Tru-Bloc.

Dimensions/Valve Design:

PVC and CPVC socket-end connections shall conform to the requirements of ASTM D2467 and F439 for Schedule 80 pressure fittings. All threaded-end connections shall conform to the requirements of ASTM D2467 and F439 as well as ASTM F1498 for tapered pipe threads.

Performance:

Valves shall be rated for 250 psi non-shock water service at 73° F water and have a minimum burst rating of 3.3 times the rated working pressure. Valves shall be certified to ASTM F1970 by a third-party agency.

Markings:

Valves shall be clearly marked with the manufacturer's name or trademark, nominal size, material designation, ASTM number or equivalent symbol indicating compliance with applicable standards, and country of manufacture. PVC and CPVC valves shall additionally bear the NSF International certification mark, NSF-pw, (verifying approval for conveyance of potable water).

Installation:

At the specifying engineer's option, the manufacturer shall provide, at no additional cost, on-site training for installation/maintenance personnel. Otherwise, installation shall be as specified by the manufacturer's printed instructions.

Sample Specification:

All ball valves shall be manufactured from a Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784 or Chlorinated Polyvinyl Chloride (CPVC) compound with Cell Classification of 24448 per ASTM D1784. The ball valves shall be manufactured in strict compliance to ASTM D1784, consistently meeting and/or exceeding the Quality Assurance test requirements of this standard. The ball valves shall be manufactured in the USA, using domestic materials. The ball valves shall carry the National Sanitation Foundation (NSF) seal of approval for potable water applications. All ball valves shall be Chemtrol® Model D True Union 1/2" – 1" rated for 250 psi as manufactured by NIBCO, INC.

Model C - 150 PSI Tru-Bloc, True Union Ball Valves
1 1/4" through 6" Nominal Sizes**Scope:**

This specification establishes the manufacturing requirements for dual-blocking (Tru-Bloc) and downstream-only blocking (true union) quarter-turn ball valves of PVC and CPVC materials intended for use in industrial, commercial, and residential pressure-piping systems, where cost effective, long-term resistance to corrosion is of prime importance, and the service temperature does not exceed: PVC, 140° F; CPVC, 210° F.

Major component parts shall be constructed from one of the following:

NPS 1 1/4" – 6" PVC (polyvinyl chloride), Cell Class 12454 per ASTM D1784, industrial gray in color, and the valve style shall be full-port Tru-Bloc, TU (NPS 6 is standard port) or Tru-Bloc, SU (NPS 1 1/4" – 2 only).

NPS 1 1/4" – 6" CPVC (chlorinated polyvinyl chloride), Cell Class 23447 per ASTM D1784, industrial light gray in color, and the valve style shall be full-port Tru-Bloc, TU (NPS 6 is standard port) or Tru-Bloc, SU (NPS 1 1/4" – 2 only).

Dimensions/Valve Design:

PVC and CPVC socket-end connections shall conform to the requirements of ASTM D2467 and F439 for Schedule 80 pressure fittings. All threaded-end connections shall conform to the requirements of ASTM D2467 and F439 as well as ASTM F1498 for tapered pipe threads.

Performance:

Valves shall be rated for 150 psi non-shock water service at 73° F water and have a minimum burst rating of 3.3 times the rated working pressure. Valves shall be certified to ASTM F1970 by a third-party agency.

Markings:

Valves shall be clearly marked with the manufacturer's name or trademark, nominal size, material designation, ASTM number or equivalent symbol indicating compliance with applicable standards, and country of manufacture. PVC and CPVC valves shall additionally bear the NSF International certification mark, NSF-pw, (verifying approval for conveyance of potable water).

Installation:

At the specifying engineer's option, the manufacturer shall provide, at no additional cost, on-site training for installation/maintenance personnel. Otherwise, installation shall be as specified by the manufacturer's printed instructions.

Sample Specification:

All ball valves shall be manufactured from a Polyvinyl Chloride (PVC) compound with a Cell Classification of 12454 per ASTM D1784 or Chlorinated Polyvinyl Chloride (CPVC) compound with Cell Classification of 23447 per ASTM D1784. The ball valves shall be manufactured in strict compliance to ASTM D1784, consistently meeting and/or exceeding the Quality Assurance test requirements of this standard. The ball valves shall be manufactured in the USA, using domestic materials. The ball valves shall carry the National Sanitation Foundation (NSF) seal of approval for potable water applications. All ball valves shall be Chemtrol® Model C True Union 1 1/4" – 6" rated for 150 psi as manufactured by NIBCO, INC.