

# Product Specification

## Type 346 True Union Ball Valve - PVC

PVC true union ball valves 3/8" through 2" shall have either solvent cement socket or threaded pipe connections. Incorporated into its design safety features is a blow-out proof stem and the ability to hold pressure when the downstream union nut is removed. Seats shall be PTFE (Teflon®) with backing rings creating self-adjusting seals and constant operating torque. Backing rings and seals shall be EPDM or FPM\*. The handle shall include in its design a key for removal of the seat carrier in addition to having sufficient elevation to permit hand clearance. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connectors are removed from pipe. Material shall meet or exceed the requirements of 12454-B according to the classifications and requirements of ASTM D-1784. Socket end connection dimensions shall conform to ASTM D-2467. Threaded pipe connections shall be in accordance with ASTM D-2464 which references ANSI B1.20.1 (was B2.1) for tapered pipe threads. Optional flanged version shall be in accordance with ANSI B16.5, class 150 flanges. The valve, type 346, shall carry a pressure rating of 232 psi at 68°F as supplied by George Fischer, Inc., Tustin, CA 92780.

## Type 346 True Union Ball Valve - CPVC

CPVC true union ball valves 1/2" through 2" shall have either solvent cement socket or threaded pipe connections. Incorporated into its design safety features is a blow-out proof stem and the ability to hold pressure when the downstream union nut is removed. Seats shall be PTFE (Teflon®) with backing rings creating self-adjusting seals and constant operating torque. Backing rings and seals shall be EPDM or FPM\*. The handle shall include in its design a key for removal of the seat carrier in addition to having sufficient elevation to permit hand clearance. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connectors are removed from pipe. Material shall meet or exceed the requirements of 23447-B according to the classifications and requirements of ASTM D-1784. Socket end connection dimensions shall conform to ASTM F439 (formerly D-2467). Threaded end connections shall conform to the dimensions as listed in ASTM F437 (formerly D-2464) which references ANSI B1.20.1 (was B2.1) for tapered pipe threads. Optional flanged version shall be in accordance with ANSI B16.5, class 150 flanges. The valve, type 346, shall carry a pressure rating of 232 psi at 68°F as supplied by George Fischer, Inc., Tustin, CA 92780.

*\*FPM seals are made of Viton® or equal materials.  
Viton® is a registered trademark of DuPont Dow Elastomers.  
Teflon® is a registered trademark of DuPont.*

## Product Specification

### Type 346 True Union Ball Valve – Polypropylene

*\*FPM seals are made of Viton® or equal materials.  
Viton® is a registered trademark of DuPont Dow Elastomers.  
Teflon® is a registered trademark of DuPont.*

Polypropylene true union ball valves 3/8" through 2" (16 mm – 63 mm) shall have either metric fusion socket or threaded type pipe connections. Incorporated into its design safety features is a blow-out-proof stem and the ability to hold pressure when the downstream union nut is removed. Seats shall be PTFE (Teflon®) with backing rings creating self-adjusting, constant operating torque sealing characteristics. Backing rings and seals shall be EPDM or FPM\*. The handle shall include in its design a key for removal of the seat carrier in addition to providing sufficient height to permit hand clearance. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. Material shall meet or exceed the requirements of ASTM D 4101 as pertains to a type I homopolymer compound having a minimum tensile strength of 4350 psi/300 bar at 73°F/20°C when tested in accordance with ASTM D 638 and shall have a melt point which initiates at 316°F/158°C. The melt flow index (at 374°F/190°C/50 N) shall be 0.4 – 0.8 grams per 10 minutes in accordance with ASTM D 1238. End connections shall be as outlined in ASTM D 2657 for fusion socket joining, and shall be compatible with metric pipe and fittings as manufactured by George Fischer, Inc. Threaded end connections shall be in accordance with ASTM D 2464 which references ANSI B 1.20 (was B 2.1) for tapered pipe threads. Optional flanged version shall be in accordance with ANSI B 16.5 class 150 flanges. The valve, Type 346, shall carry a pressure rating of 150 psi/10 bar at 68°F/20°C as supplied by George Fischer, Inc., Tustin, CA 92780.

### Type 346 True Union Ball Valve – PVDF

PVDF true union ball valves 3/8" through 2" (16 mm – 63 mm) shall have either metric fusion socket or threaded type pipe connections. Incorporated into its design safety features is a blow-out-proof stem and the ability to hold pressure when the downstream union nut is removed. Seats shall be PTFE (Teflon®) with backing rings creating self-adjusting, constant operating torque sealing characteristics. Backing rings and seals shall be FPM\*. The handle shall include in its design a key for removal of the seat carrier in addition to providing sufficient height to permit hand clearance. Seat carrier shall have left-hand threads to prevent possible unscrewing when threaded end connector is installed on the pipe. Material shall meet or exceed the requirements of ASTM D 3222 as pertains to a natural, unpigmented, virgin, noncompounded polyvinylidene fluoride compound having a minimum tensile strength of 7800 psi/538 bar at 73°F/20°C when tested in accordance with ASTM D 638 and shall have a flexural strength of 10,700 psi/738 bar at 73°F/20°C when tested according to ASTM D 790. End connections shall be as outlined in ASTM D 2657 for fusion socket joining, and shall be compatible with metric pipe and fittings as manufactured by George Fischer, Inc. Threaded end connections shall be in accordance with ASTM D 2464 which references ANSI B 1.20 (was B 2.1) for tapered pipe threads. Optional flanged version shall be in accordance with ANSI B 16.5 class 150 flanges. The valve, Type 346, shall carry a pressure rating of 232 psi/16 bar at 68°F/20°C as supplied by George Fischer, Inc., Tustin, CA 92780.