



PVC & CPVC UTILITY BALL VALVES

UT-2-0698

Economy, Utility and Quality



A high quality, economical, quarter-turn shut off valve designed for irrigation, pool and spa applications. Available in IPS sizes 1/2" through 2", with choice of either socket or threaded end connectors.

PVC or CPVC Construction

Excellent companion for PVC systems such as lawn sprinklers, pools, spas, water gardens and other light-duty applications.

One-Piece Sealed Unit

Never requires adjustment.

Teflon® Ball Seats

Smooth operating PTFE floating seat design reduces wear.

EPDM O-ring Seals

High grade, abrasion resistant EPDM elastomer O-rings.

Full Schedule 80 Bore

In full open position, full bore virtually eliminates pressure drop, providing optimum flow.

High Impact Polypropylene Handle

Features double stop engagement.

Safe-T-Shear® Stem

Developed to help prevent line fluids from leaking out in the event of ball valve stem damage. Engineered for high strength, the stem incorporates a special shear point to control accidental breakage. Over torquing breaks occur above the stem O-ring leaving the seal intact until replacement can be made.

150 psi Pressure Rating

Maximum Internal Pressure at 73°F for a variety of applications.

Certified by NSF for Potable Water

All Utility Ball Valves are Certified by NSF International for potable water use.

Sample Engineering Specifications
All thermoplastic ball valves shall be Utility sealed unit type constructed from PVC Type I Cell Classification 12454 or CPVC Type IV Cell Classification 23447. All O-rings shall be EPDM. All valves shall have Safe-T-Shear® stem and double stop Polypropylene handle. All valves shall be listed by NSF for use in potable water service. All valves shall be pressure rated at 150 psi for water at 73°F, as manufactured by Spears Manufacturing Company.

For additional information, please refer to Spears' THERMOPLASTIC VALVES AND ACCESSORIES PRODUCT GUIDE & ENGINEERING SPECIFICATIONS V-4 and THERMOPLASTIC VALVES & ACCESSORIES Price Schedule V-1.



PROGRESSIVE PRODUCTS FROM SPEARS INNOVATION & TECHNOLOGY

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Quality Systems Certificate No. 293
Corporate Facilities, Sylmar, CA
Assessed to ISO 9001

Quick-View Valve Selection Chart

Valve Size	O-ring Material	PVC Part Number1		Pressure Rating
		Threaded	Socket	
1/2	EPDM	2621-005	2622-005	150 psi Non-Shock Water @ 73°F
3/4	EPDM	2621-007	2622-007	
1	EPDM	2621-010	2622-010	
1-1/4	EPDM	2621-012	2622-012	
1-1/2	EPDM	2621-015	2622-015	
2	EPDM	2621-020	2622-020	

1. For CPVC valves, add the letter "C" to part numbers listed (e.g. 2621-005C)

C_v Values

Valve Size	C _v
1/2	46
3/4	91
1	160
1-1/4	306
1-1/2	429
2	755

Values calculated from valve laying length, based on derivative of Hazen-Williams equation with surface roughness factor of C=150.

NOT FOR USE WITH COMPRESSED AIR OR GASES

Spears Manufacturing Company DOES NOT RECOMMEND the use of thermoplastic piping products for systems to transport or store compressed air or gases, or the testing of thermoplastic piping systems with compressed air or gases in above and below ground locations. The use of our product in compressed air or gas systems automatically voids any warranty for such products, and its use against our recommendation is entirely the responsibility and liability of the installer.

WARNING: DO NOT USE COMPRESSED AIR OR GAS TO TEST ANY PVC OR CPVC THERMOPLASTIC PIPING PRODUCT OR SYSTEM, AND DO NOT USE DEVICES PROPELLED BY COMPRESSED AIR OR GAS TO CLEAR SYSTEMS. THESE PRACTICES MAY RESULT IN EXPLOSIVE FRAGMENTATION OF SYSTEM PIPING COMPONENTS CAUSING SERIOUS OR FATAL BODILY INJURY.

Temperature Pressure Rating

System Operating Temperature °F (°C)	73 (23)	100 (38)	110 (43)	120 (49)	130 (54)	140 (60)	150 (66)	160 (71)	170 (77)	180 (82)	190 (88)
Valve Pressure Rating	PVC										
psi (MPa)	150 (1.03)	124 (.85)	100 (.69)	75 (.52)	-0 (-0-)	-0 (-0-)	-0 (-0-)	-0 (-0-)	-0 (-0-)	-0 (-0-)	-0 (-0-)
	CPVC										
	150 (1.03)	140 (.97)	130 (.90)	120 (.83)	110 (.76)	100 (.69)	90 (.62)	80 (.55)	70 (.48)	60 (.41)	-0 (-0-)

NOTE: Threaded Valves should not be used at temperatures above 110°F (43°C) for PVC, and 150°F (66°C) for CPVC.



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