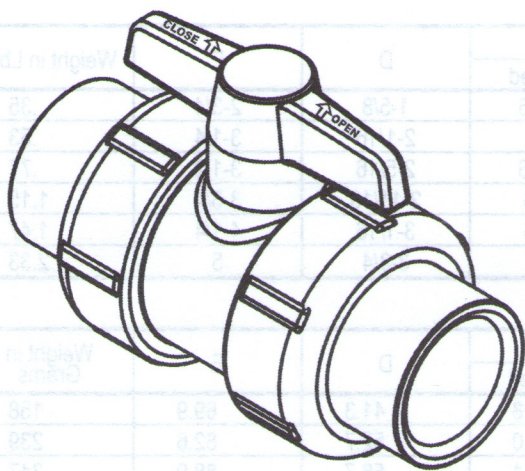


PVC TRUE UNION UTILITY BALL VALVES

TUU-2-1103

Superior Quality, Full Featured, Multi-Purpose Ball Valve



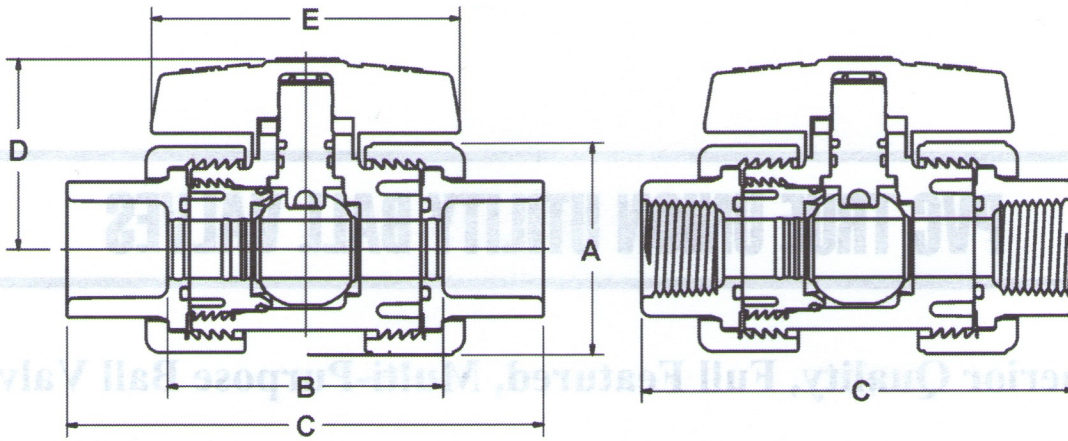
Engineered for high performance and long life, Multi-purpose, full-featured PVC True Union Utility Ball Valves provide excellent 1/4-turn shutoff for the most demanding applications.

- PVC Chemical & Corrosion Resistant Construction
- Replaceable HDPE/Teflon Seats
- Self Adjusting Floating Seat design
- EPDM or genuine Viton® O-ring Seals
- Safe-T-Shear® Stem
- Safe-T-Blocked™ Seal Carrier
- Impact Resistant Blue Polypropylene Handle
- PN16 -Pressure rated to 232 psi @ 73°F (22°C)
- Produced in ASTM IPS sizes 1/2" - 2" with Socket or NPT Threaded End Connectors (DIN, JIS Sockets and BSP Threads - available upon request)
- All Valves Manufactured from NSF-61 Approved Material

- **Convenient Double Union Design (True Union)**
Double union design with strong Buttress thread union nuts allows easy servicing and replacement.
- **Corrosion Resistant PVC Construction**
All PVC construction provides optimum corrosion resistance. Never rusts, scales or pits.
- **HDPE/Teflon® Floating Seats**
Special processing provides the durability of High Density Polyethylene (HDPE) with the improved lubricity of Teflon® for smoother operation. Special "floating seat" design allows the seat to expand on closing and contract on opening. This maintains ball-to-seat contact, assuring proper adjustment and continual sealing. For PTFE seats, please consult with Spears Manufacturing Company.
- **High Grade EPDM or Viton® O-ring Seals**
Only high grade EPDM and genuine Viton® EPDM or genuine Viton® seals are used.

- **Full PN16 Service Pressure Ratings**
Valves are rated to 232 psi (16 BAR) service pressure at 73°F (22°C). Maximum service temperature for PVC is 140°F. Valve pressure deratings at elevated temperatures apply.
- **Safe-T-Blocked™ Seal Carrier**
Blocked Seal Carrier allows safe removal of downstream union connection while valve is closed and under pressure. Fully adjustable to compensate for seat wear and for extended service life.
- **Safe-T-Shear® Stem**
This important safety feature was developed to prevent line fluids from leaking out in the event of accidental stem damage. Engineered for high strength, the stem incorporates a special shear point to control any breakage so that it is above the O-ring seal until repairs can be made.

Technical Information



Specifications in Inches

Size (Inches)	A	B	C		D	E	Weight in Lbs.
			Socket	Threaded			
1/2	1-7/8	2-7/16	4-3/16	3-13/16	1-5/8	2-3/4	.35
3/4	2-1/4	2-3/4	4-3/4	4-1/4	2-1/16	3-1/4	.53
1	2-1/2	2-7/8	5-1/8	4-11/16	2-5/16	3-1/2	.77
1-1/4	3-1/16	3-1/4	5-3/4	5-3/16	2-11/16	3-3/4	1.15
1-1/2	3-1/2	3-1/2	6-1/4	5-7/16	3-1/16	4-1/4	1.47
2	3-1/4	4-3/4	7-3/4	6-3/4	3-3/4	5	2.33

Specifications in Millimeters

Size (Millimeters)	A	B	C		D	E	Weight in Grams
			Socket	Threaded			
1/2	47.6	61.9	106.4	96.8	41.3	69.9	158
3/4	57.2	69.9	120.7	108.0	52.7	82.6	239
1	63.5	73.0	130.2	119.1	58.7	88.9	347
1-1/4	77.8	82.6	146.1	131.8	68.3	95.3	522
1-1/2	88.9	88.9	158.8	138.1	77.8	108.0	666
2	108.0	120.7	196.9	171.5	95.3	127.0	1055

Part Numbers & C_v Values

Size (inch)	Socket Part Number		Threaded Part Number		C _v Values
1/2	EPDM	8822-005	EPDM	8821-005	29
	Viton®	8832-005	Viton®	8831-005	
3/4	EPDM	8822-007	EPDM	8821-007	63
	Viton®	8832-007	Viton®	8831-007	
1	EPDM	8822-010	EPDM	8821-010	120
	Viton®	8832-010	Viton®	8831-010	
1-1/4	EPDM	8822-012	EPDM	8821-012	243
	Viton®	8832-012	Viton®	8831-012	
1-1/2	EPDM	8822-015	EPDM	8821-015	357
	Viton®	8832-015	Viton®	8831-015	
2	EPDM	8822-020	EPDM	8821-020	599
	Viton®	8832-020	Viton®	8831-020	

Sample Engineering Specifications

All thermoplastic ball valves shall be True Union Utility type constructed from NSF-61 approved PVC material, Type I, ASTM D 1784 Cell Classification 12454. All O-rings shall be EPDM or genuine Viton®. All valve seats shall be HDPE with Teflon®. All valves shall have Safe-T-Shear® stem with O-ring stem seal. All handles shall be polypropylene. All union nuts shall have Buttress threads. All seal carriers shall be Safe-T-Blocked®. All valves shall be PN16 pressure rated to 232 psi for water @ 73°F (22°C).

C_v = US gallons per minute required to produce a 1 psi pressure drop.
 Values calculated from derivative of Hazen-Williams formula with C=150

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