



Howard S. Wright



a Balfour Beatty company

SUBMITTAL COVER SHEET

Submittal Date: 04/21/2025
Submittal Review Due Date: 05/05/2025
Submittal Number: 220523-001
Submittal Title: Plumbing Piping Valves
Architect: ADa
General Contractor: Howard S. Wright Construction

Specification Reference: 230523
Subcontractor: TMI

Contractor Use:

 Howard S. Wright a Balfour Beatty company
Review By: John Mobley Date: 04/21/2025
<small>Reviewed only for general conformance with the project requirements indicated in the Contract documents and for consistency with the project design concept. The review does not relieve the subcontractor from responsibility; for errors or omissions in designs for which the contractor is responsible for compliance with all requirements of the Contract Documents and for the safe and successful construction of the work. The review does not consider the means, methods, techniques, sequences and operations of construction, or safety; precautions or programs incidental thereto which are the sole responsibility of the subcontractor.</small>


A/E Use:



24132 - Kaiser AWL EV Lab (24132-)

13705 NE Airport Way
Portland, OR 97230

012 - Plumbing Piping Valves

Subject

Plumbing Piping Valves

Status

Submitted ●

Spec section

22 05 23 - General-Duty Valves for Plumbing Piping

Submittal package

Spec sub section

Responsible company

Total Mechanical, Inc

Type

Product Data

Importance

Location

Author

Total Mechanical, Inc
Tim Manzella

Resolved by

DESCRIPTION

Tim Manzella on 4/14/2025 10:48 AM

Product data



File

Combined EV Valve..

Tim Manzella

Lead-Free Bronze Ball Valves

Features: Silicon Performance Bronze® Alloy • Two-Piece Body • Full Port • Blowout-Proof Stem

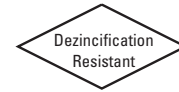
Approvals: MSS SP-110/145 • IAPMO/ANSI Z1157 •
NSF/ANSI 61/372-8 Commercial Hot 180°F

Size range: ¼" - 3"

Pressure rating: 600 PSI non-shock cold working pressure

Maximum pressure / temperature: 100 PSI at 300° F

Lead-free markings: Double oval in body casting, white handle and blue hang tag



MATERIAL LIST

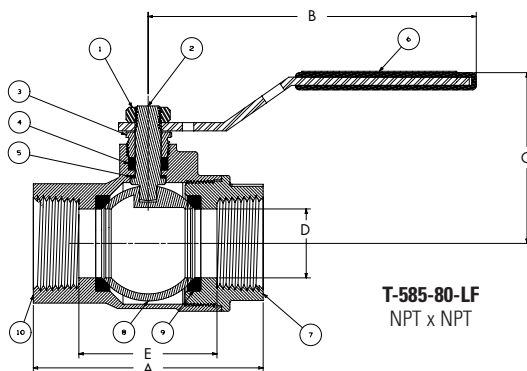
PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Stem	Silicon Bronze ASTM B371 Alloy C69300
3. Pack Gland	Brass ASTM B16 Alloy C36000
4. Packing, Stem	Virgin PTFE
5. Washer, Thrust	Reinforced PTFE
6. Handle	Zinc Plated Steel Clear Chromate Plastisol Coated
7. End Piece	Silicon Bronze ASTM B584 Alloy C87600
8. Seat Ring (2)	Reinforced PTFE
9. Ball	DZR Brass SAE J461 C46500 (¼"-1") Stainless Steel ASTM A276 S31600 or ASTM A351CF8M (1¼"-3")
10. Body	Silicon Bronze ASTM B584 Alloy C87600



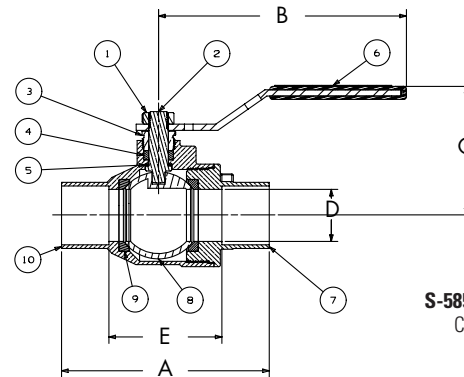
T-585-80-LF
Threaded



S-585-80-LF
Solder



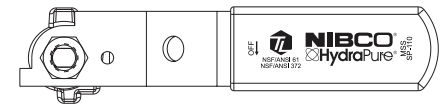
T-585-80-LF
NPT x NPT



S-585-80-LF
C x C

DIMENSIONS—WEIGHTS—QUANTITIES

Dimensions																				
		T-585-80-LF		S-585-80-LF								T-585-80-LF		S-585-80-LF						
SIZE		A		A		B		C		D		E		E		T-585-80-LF		S-585-80-LF		Master Ctn. Qty
In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	In.	mm.	Lbs.	Kg.	Lbs.	Kg.	
¼	8	1.78	45	1.83	46	3.96	101	1.86	47	0.31	8	1.00	25	1.21	31	0.43	0.19	0.40	0.18	24
⅜	10	1.79	45	1.97	50	3.96	101	1.85	47	0.38	10	1.80	46	1.21	31	0.44	0.20	0.41	0.19	24
½	15	2.23	57	2.4	61	3.96	101	1.96	50	0.5	13	1.16	29	1.40	36	0.65	0.30	0.56	0.25	80
¾	20	2.78	71	3.16	80	4.76	121	2.28	58	0.75	19	1.68	43	1.66	42	1.20	0.55	1.02	0.46	60
1	25	3.34	85	3.99	101	4.76	121	2.48	63	1	25	2.00	51	2.17	55	1.63	0.74	1.50	0.68	40
1¼	32	3.75	95	4.13	105	6.75	171	3.10	79	1.25	32	2.39	61	2.19	56	2.87	1.30	2.41	1.09	20
1½	40	4.26	108	4.97	126	6.75	171	3.32	84	1.5	38	2.89	73	2.79	71	3.83	1.74	3.62	1.64	10
2	50	4.80	122	6.02	153	6.75	171	3.56	90	2	51	3.40	86	3.34	85	5.57	2.53	5.54	2.51	6
2½	65	6.00	152	7.21	183	8.06	205	4.40	112	2.50	64	4.12	105	4.27	108	13.70	6.21	12.80	5.80	2
3	76	6.5	165	8	202	8.06	205	4.65	118	2.95	75	4.46	113	4.62	117	14.30	6.49	12.50	5.67	2



Handle Markings

Handle Options:

- Stainless Steel Lever
- NIB-Seal®
- NIB-Seal® Locking Lever
- Locking Lever
- Stainless Steel Locking Lever
- Memory Stop
- Extended Lever w/ Memory Stop
- Round
- Wing
- Horizontal and Vertical Chain



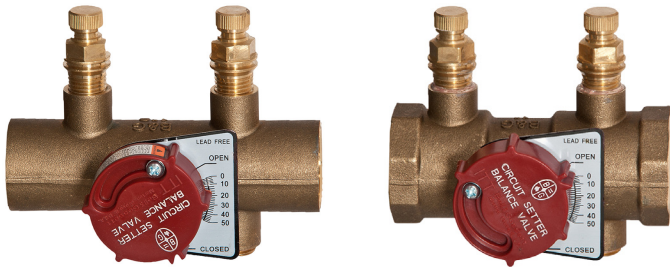
WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

LEAD-FREE: Weighted average lead content ≤ 0.25%

JOB:
REPRESENTATIVE:

 UNIT TAG:
 ENGINEER:
 CONTRACTOR:

 ORDER NUMBER:
 SUBMITTED BY:
 APPROVED BY:

 DATE:
 DATE:
 DATE:

DESCRIPTION

The Bell & Gossett CIRCUIT SETTER PLUS and CIRCUIT SETTER PLUS "RF" calibrated balance valves are a precision machined ball type triple purpose balancing instrument. They are precisely calibrated for use as a presettable balance valve, variable orifice flow meter and positive shut-off service valve. Valves are furnished with a calibrated nameplate and memory stop indicator which permits a preset to a fixed open position and then closed for service without disturbing valve setting. Valves are equipped with capped readout valves fitted with internal check valves and 1/4" NPT tapped and plugged drain port.

Circuit Setter Plus®

Calibrated Balance Valves with NPT and Solder Connections
LEAD FREE*

CONSTRUCTION

Body: Lead-Free Brass*
Ball: 304 Stainless Steel
Seat Rings: Glass and Carbon filled TFE
Readout Valves: Brass with EPT check valves
Stem "O" Ring: EPDM

MAXIMUM WORKING PRESSURE

NPT Models: 400 psig (2758 kPa)
Sweat Models: See table below

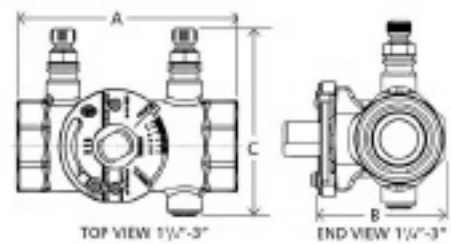
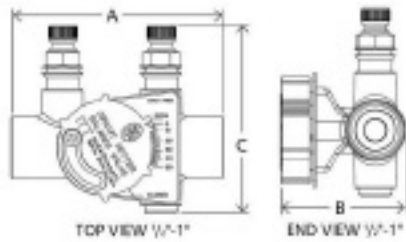
MAXIMUM OPERATING TEMPERATURE

-4°F(-20°C) to 250°F(121°C)
 *Contains less than 0.25% lead content by weight on wetted surfaces.
 AB1953 and CSA Certified. Vermont 152S, Maryland House Bill HB.372, Senate Bill S.3874, and NSF-61 Annex G Compliant.

Maximum Pressure Limitations for 1/2"-2" With Solder Connections		
Type Solder	Pressure PSI (KPa)	Temperature °F (°C)
95-5 Tin Antimony	300 (2068)	200 (93)
	250 (1724)	225 (107)
	200 (1379)	250 (121)

SCHEDULE

Model Number	Tagging Information	Quantity
RF-1/2S LF		
RF-3/4S LF		
CB-1/2S LF		
CB-3/4S LF		
CB-1S LF		
CB-1-1/4S LF		
CB-1-1/2S LF		
CB-2S LF		
CB-1/2 LF		
CB-3/4 LF		
CB-1 LF		
CB-1-1/4 LF		
CB-1-1/2 LF		
CB-2 LF		
CB-2-1/2 LF		
CB-3 LF		



DIMENSIONS AND WEIGHTS

Model Number	Size	Connection Type	Dimensions in Inches (MM)			Weight in lbs. (KG)
			A	B	C	
RF-1/2S LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	0.6 (0.27)
RF-3/4S LF	3/4"	Sweat	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	0.75 (0.34)
CB-1/2S LF	1/2"	Sweat	2.91 (73.9)	1.82 (46.2)	2.85 (72.4)	1 (0.45)
CB-3/4S LF	3/4"	Sweat	3.51 (89.2)	2.05 (52.1)	3.10 (78.7)	1.25 (0.45)
CB-1S LF	1"	Sweat	4.29 (109)	2.33 (59.2)	3.33 (84.6)	2 (0.9)
CB-1-1/4S LF	1-1/4"	Sweat	4.91 (124.7)	3.08 (78.2)	3.69 (93.7)	3.5 (1.6)
CB-1-1/2S LF	1-1/2"	Sweat	5.21 (132.3)	3.27 (83)	3.95 (100.2)	3.8 (1.7)
CB-2S LF	2"	Sweat	6.31 (160.3)	3.92 (97.4)	4.44 (112.8)	6.2 (2.8)
CB-1/2 LF	1/2"	NPT	2.94 (74.7)	1.98 (50.3)	3.02 (76.7)	1.25 (0.6)
CB-3/4 LF	3/4"	NPT	3.06 (77.7)	2.17 (55.1)	3.12 (79.2)	1.5 (0.7)
CB-1 LF	1"	NPT	3.91 (96.8)	2.47 (62.7)	3.42 (86.9)	2 (0.9)
CB-1-1/4 LF	1-1/4"	NPT	4.41 (112)	3.19 (81)	3.69 (93.7)	3.5 (1.6)
CB-1-1/2 LF	1-1/2"	NPT	4.42 (112.3)	3.37 (85.6)	3.95 (100.2)	3.8 (1.7)
CB-2 LF	2"	NPT	5.13 (130.3)	3.98 (101.1)	4.44 (112.8)	6.2 (2.8)
CB-2-1/2 LF	2-1/2"	NPT	6.00 (152.4)	4.51 (114.6)	4.83 (122.6)	9 (4.1)
CB-3 LF	3"	NPT	6.50 (165.1)	5.12 (130)	5.44 (138.2)	12 (5.4)

Schedule 80 CPVC Industrial Products & Accessories True Union 2000 Industrial Ball Valves



Socket Style



SR Threaded Style



6" Lever Handle Style

All Valves Assembled with Silicone-Free, Water Soluble Lubricant
Contact Spears® for Pricing on Custom Elastomer Seals

See Ball Valve Accessories & Repair Kits Section for Additional Options and Features

Pressure Rating @ 73°F (23°C), Water

1/2" - 4" 235 psi
6" - 8" 150 psi
All Flanged 150 psi

Maximum Service Temperature

CPVC = 200°F (93°C)
Temperature/Pressure De-ratings Apply
Rated for Vacuum Service

Note: Standard 6" Valve uses lockout type Lever-Style Handle for proper leverage.

Non-locking T-Handle is more compact, but will increase difficulty of operation.

True Union 2000 Industrial Ball Valves have Built-in Handle Lockouts (except 6" T-Handle Option)

CPVC Industrial

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Threaded & Socket Ends

1/2	1829-005C 65.63	1839-005C 72.93	1	18	602
3/4	1829-007C 82.65	1839-007C 91.86	1	18	602
1	1829-010C 98.40	1839-010C 109.33	1	12	602
1-1/4	1829-012C 156.43	1839-012C 173.86	1	8	602
1-1/2	1829-015C 165.21	1839-015C 183.57	1	8	602
2	1829-020C 220.95	1839-020C 254.00	1	4	602

Socket Ends

2-1/2	1822-025C 495.39	1832-025C 550.40	1	0	603
3	1822-030C 579.22	1832-030C 643.63	1	0	603
4	1822-040C 1049.59	1832-040C 1166.19	1	0	603
6	1822-060C 2234.41	1832-060C 2482.51	1	0	613
8	1822-080C 2971.79	1832-080C 3301.76	1	0	613

8" Venturied valves are 6" ball valves fitted with 6x8 end connector adapters.

Threaded Ends

2-1/2	1821-025C 495.39	1831-025C 550.40	1	0	603
3	1821-030C 579.22	1831-030C 643.63	1	0	603
4	1821-040C 1049.59	1831-040C 1166.19	1	0	603
6	1821-060C 2234.41	1831-060C 2482.51	1	0	613

SR Threaded Ends

1/2	1821-005CSR 66.68	1831-005CSR 73.99	1	18	602
3/4	1821-007CSR 85.23	1831-007CSR 94.43	1	18	602
1	1821-010CSR 100.98	1831-010CSR 111.88	1	12	602
1-1/4	1821-012CSR 164.17	1831-012CSR 181.60	1	8	602
1-1/2	1821-015CSR 173.53	1831-015CSR 191.85	1	8	602
2	1821-020CSR 229.95	1831-020CSR 263.00	1	4	602
2-1/2	1821-025CSR 519.58	1831-025CSR 574.58	1	0	603
3	1821-030CSR 603.40	1831-030CSR 667.80	1	0	603
4	1821-040CSR 1077.80	1831-040CSR 1194.44	1	0	603
6	1821-060CSR 2295.64	1831-060CSR 2543.73	1	0	613

CPVC Industrial

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Spigot Ends

1/2	1827-005C 65.63	1837-005C 72.93	1	18	602
3/4	1827-007C 82.65	1837-007C 91.86	1	18	602
1	1827-010C 98.40	1837-010C 109.33	1	12	602
1-1/4	1827-012C 156.43	1837-012C 173.86	1	8	602
1-1/2	1827-015C 165.21	1837-015C 183.57	1	8	602
2	1827-020C 220.95	1837-020C 254.00	1	4	602
2-1/2	1827-025C 495.39	1837-025C 550.40	1	0	603
3	1827-030C 579.22	1837-030C 643.63	1	0	603
4	1827-040C 1049.59	1837-040C 1166.19	1	0	603
6	1827-060C 2234.41	1837-060C 2482.51	1	0	613

Flanged Ends

1/2	1823-005C 111.36	1833-005C 113.76	1	8	602
3/4	1823-007C 136.51	1833-007C 142.17	1	8	602
1	1823-010C 156.26	1833-010C 165.88	1	8	602
1-1/4	1823-012C 233.48	1833-012C 241.68	1	8	602
1-1/2	1823-015C 256.82	1833-015C 265.38	1	4	602
2	1823-020C 357.38	1833-020C 425.63	1	0	602
2-1/2	1823-025C 667.02	1833-025C 800.64	1	0	603
3	1823-030C 975.47	1833-030C 997.72	1	0	603
4	1823-040C 1710.82	1833-040C 1779.24	1	0	603
6	1823-060C 3644.03	1833-060C 3789.02	1	0	613
8	1823-080C 4846.55	1833-080C 5039.38	1	0	613

8" Venturied valves are 6" ball valves fitted with 6x8 end connector adapters.

CPVC 6" Industrial T-Handle Valve Option (Non-Locking) NOTICE: T-Handle is more compact, but will greatly increase difficulty of operation.

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Socket Ends

6	18226-060C 2234.41	18326-060C 2482.51	1	0	613
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Schedule 80 CPVC Industrial Products & Accessories
True Union 2000 Industrial Ball Valves & True Union 2000 Industrial Vented/Bleach Ball Valves

True Union 2000 Industrial Ball Valves

CPVC 6" Industrial T-Handle Valve Option (Non-Locking) NOTICE: T-Handle is more compact, but will greatly increase difficulty of operation.

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Threaded Ends					
6	18216-060C 2234.41	18316-060C 2482.51	1	0	613
SR Threaded Ends					
6	18216-060CSR 2295.64	18316-060CSR 2543.73	1	0	613
Flanged Ends					
6	18236-060C 3644.03	18336-060C 3789.02	1	0	613

True Union 2000 Industrial Vented/Bleach Ball Valves



Pressure Rating @ 73°F (23°C), Water
 1/2" - 4" 235 psi
 6" 150 psi
 Flanged 150 psi

Same True Union 2000 Industrial Ball Valve with Special Ball Vent Design for Sodium Hypochlorite (Bleach) and other Chemical Applications where entrapped fluids may form caustic crystalline residues and pressure build up from gases developed. Valve has a 1/8" vent hole in ball to equalize internal fluid pressures. Install valve with ball vent on the pressure (upstream) side when in closed position.

All Valves assembled with Silicone-Free, Water Soluble Lubricant

Contact Spears® for Pricing & Availability on Custom Elastomer Seals. See Ball Valve Accessories & Repair Kits Section for Additional Options and Features

CPVC True Union 2000 Industrial Vented/Bleach Ball Valves

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Threaded & Socket Ends					
1/2	1829V-005C 77.20	1839V-005C 85.79	1	18	602
3/4	1829V-007C 97.23	1839V-007C 108.07	1	18	602
1	1829V-010C 115.77	1839V-010C 128.62	1	12	602
1-1/4	1829V-012C 184.04	1839V-012C 204.57	1	8	602
1-1/2	1829V-015C 194.37	1839V-015C 215.96	1	8	602
2	1829V-020C 259.96	1839V-020C 298.81	1	4	602
Socket Ends					
2-1/2	1822V-025C 582.81	1832V-025C 647.51	1	0	603
3	1822V-030C 681.44	1832V-030C 757.19	1	0	603
4	1822V-040C 1234.79	1832V-040C 1372.00	1	0	603
6	1822V-060C 2628.74	1832V-060C 2920.60	1	0	613
SR Threaded Ends					
1/2	1821V-005CSR 78.43	1831V-005CSR 87.05	1	18	602
3/4	1821V-007CSR 100.28	1831V-007CSR 111.07	1	18	602
1	1821V-010CSR 118.77	1831V-010CSR 131.62	1	12	602
1-1/4	1821V-012CSR 193.12	1831V-012CSR 213.65	1	8	602
1-1/2	1821V-015CSR 204.15	1831V-015CSR 225.73	1	8	602
2	1821V-020CSR 270.54	1831V-020CSR 309.41	1	4	602

CPVC True Union 2000 Industrial Vented/Bleach Ball Valves (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
SR Threaded Ends					
2-1/2	1821V-025CSR 611.26	1831V-025CSR 675.97	1	0	603
3	1821V-030CSR 709.89	1831V-030CSR 785.65	1	0	603
4	1821V-040CSR 1268.01	1831V-040CSR 1405.23	1	0	603
Flanged Ends					
1/2	1823V-005C 131.00	1833V-005C 133.82	1	8	602
3/4	1823V-007C 160.59	1833V-007C 167.29	1	8	602
1	1823V-010C 183.84	1833V-010C 195.16	1	8	602
1-1/4	1823V-012C 274.69	1833V-012C 284.33	1	8	602
1-1/2	1823V-015C 302.14	1833V-015C 312.22	1	4	602
2	1823V-020C 420.45	1833V-020C 500.73	1	0	602
2-1/2	1823V-025C 784.74	1833V-025C 941.93	1	0	603
3	1823V-030C 1147.61	1833V-030C 1173.76	1	0	603
4	1823V-040C 2093.21	1833V-040C 2093.23	1	0	603
6	1823V-060C 4457.67	1833V-060C 4457.67	1	0	613

Schedule 80 CPVC Industrial Products & Accessories True Union 2000 Industrial 3-Way Ball Valves



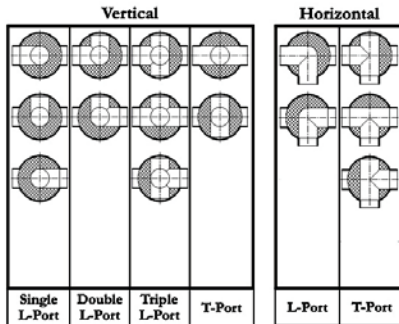
Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" 235 psi
 2-1/2" - 4" 150 psi
 Flanged 150 psi
 Maximum Service Temperature
 CPVC = 200°F (93°C)

Temperature/Pressure De-ratings Apply
 Vertical 3-Way or Horizontal Diverter Design
 (No Branch Shut-off)

All Standard Carton Quantities are one
 All Valves assembled with Silicone-Free,
 Water Soluble Lubricant

See Ball Valve Accessories & Repair Kits Section
 for Additional Options and Features

Ball Port Options



Ball port options viewed from top of valve



Horizontal Diverter Valve



Vertical 3-Way Valve

CPVC Horizontal Diverter Ball Valves

Material		EPDM				FKM				Disc Code
Joint	Ball Port	Socket	SR Thread	Spigot	Flanged	Socket	SR Thread	Spigot	Flanged	
Size	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	
	Price Each	Price Each	Price Each	Price Each	Price Each	Price Each	Price Each	Price Each	Price Each	
1/2	L-Port	5022L1-005C 157.82	5021L1-005CSR 162.83	5027L1-005C 157.82	5023L1-005C 322.20	5032L1-005C 170.98	5031L1-005CSR 178.77	5037L1-005C 170.98	5033L1-005C 336.56	617
	T-Port	5022T1-005C 157.82	5021T1-005CSR 162.83	5027T1-005C 157.82	5023T1-005C 322.20	5032T1-005C 170.98	5031T1-005CSR 178.77	5037T1-005C 170.98	5033T1-005C 336.56	617
3/4	L-Port	5022L1-007C 188.12	5021L1-007CSR 194.37	5027L1-007C 188.12	5023L1-007C 337.09	5032L1-007C 202.49	5031L1-007CSR 208.73	5037L1-007C 202.49	5033L1-007C 355.80	617
	T-Port	5022T1-007C 188.12	5021T1-007CSR 194.37	5027T1-007C 188.12	5023T1-007C 337.09	5032T1-007C 202.49	5031T1-007CSR 208.73	5037T1-007C 202.49	5033T1-007C 355.80	617
1	L-Port	5022L1-010C 228.12	5021L1-010CSR 234.21	5027L1-010C 228.12	5023L1-010C 480.34	5032L1-010C 251.35	5031L1-010CSR 257.40	5037L1-010C 251.35	5033L1-010C 525.21	617
	T-Port	5022T1-010C 228.12	5021T1-010CSR 234.21	5027T1-010C 228.12	5023T1-010C 480.34	5032T1-010C 251.35	5031T1-010CSR 257.40	5037T1-010C 251.35	5033T1-010C 525.21	617
1-1/4	L-Port	5022L1-012C 264.35	5021L1-012CSR 276.29	5027L1-012C 264.35	5023L1-012C 908.74	5032L1-012C 296.38	5031L1-012CSR 309.89	5037L1-012C 296.38	5033L1-012C 962.62	617
	T-Port	5022T1-012C 264.35	5021T1-012CSR 276.29	5027T1-012C 264.35	5023T1-012C 908.74	5032T1-012C 296.38	5031T1-012CSR 309.89	5037T1-012C 296.38	5033T1-012C 962.62	617
1-1/2	L-Port	5022L1-015C 309.22	5021L1-015CSR 329.13	5027L1-015C 309.22	5023L1-015C 936.25	5032L1-015C 338.44	5031L1-015CSR 358.39	5037L1-015C 338.44	5033L1-015C 979.05	617
	T-Port	5022T1-015C 309.22	5021T1-015CSR 329.13	5027T1-015C 309.22	5023T1-015C 936.25	5032T1-015C 338.44	5031T1-015CSR 358.39	5037T1-015C 338.44	5033T1-015C 979.05	617
2	L-Port	5022L1-020C 379.35	5021L1-020CSR 399.20	5027L1-020C 379.35	5023L1-020C 1215.68	5032L1-020C 442.12	5031L1-020CSR 463.73	5037L1-020C 442.12	5033L1-020C 1276.82	617
	T-Port	5022T1-020C 379.35	5021T1-020CSR 399.20	5027T1-020C 379.35	5023T1-020C 1215.68	5032T1-020C 442.12	5031T1-020CSR 463.73	5037T1-020C 442.12	5033T1-020C 1276.82	617
2-1/2	L-Port	5022L1-025C 1278.73	5021L1-025CSR 1334.51	5027L1-025C 1278.73	5023L1-025C 2134.61	5032L1-025C 1359.63	5031L1-025CSR 1415.62	5037L1-025C 1359.63	5033L1-025C 2501.60	617
	T-Port	5022T1-025C 1278.73	5021T1-025CSR 1334.51	5027T1-025C 1278.73	5023T1-025C 2134.61	5032T1-025C 1359.63	5031T1-025CSR 1415.62	5037T1-025C 1359.63	5033T1-025C 2501.60	617
3	L-Port	5022L1-030C 1304.72	5021L1-030CSR 1363.43	5027L1-030C 1304.72	5023L1-030C 2163.38	5032L1-030C 1380.93	5031L1-030CSR 1436.91	5037L1-030C 1380.93	5033L1-030C 2513.13	617
	T-Port	5022T1-030C 1304.72	5021T1-030CSR 1363.43	5027T1-030C 1304.72	5023T1-030C 2163.38	5032T1-030C 1380.93	5031T1-030CSR 1436.91	5037T1-030C 1380.93	5033T1-030C 2513.13	617
4	L-Port	5022L1-040C 2362.94	5021L1-040CSR 2426.84	5027L1-040C 2362.94	5023L1-040C 3142.08	5032L1-040C 2389.62	5031L1-040CSR 2453.65	5037L1-040C 2389.62	5033L1-040C 3434.33	617
	T-Port	5022T1-040C 2362.94	5021T1-040CSR 2426.84	5027T1-040C 2362.94	5023T1-040C 3142.08	5032T1-040C 2389.62	5031T1-040CSR 2453.65	5037T1-040C 2389.62	5033T1-040C 3434.33	617



Schedule 80 CPVC Industrial Products & Accessories
True Union 2000 Industrial 3-Way Ball Valves

CPVC Vertical 3-Way Ball Valves

Material		EPDM				FKM				Disc Code
Joint		Socket	SR Thread	Spigot	Flanged	Socket	SR Thread	Spigot	Flanged	
Size	Ball Port	Part # Price Each	Part # Price Each	Part # Price Each	Part # Price Each	Part # Price Each	Part # Price Each	Part # Price Each	Part # Price Each	
1/2	L-Port	4722L1-005C 156.94	4721L1-005CSR 159.53	4727L1-005C 156.94	4723L1-005C 324.26	4732L1-005C 169.93	4731L1-005CSR 172.52	4737L1-005C 169.93	4733L1-005C 336.06	617
	Double L-Port	4722L2-005C 312.67	4721L2-005CSR 315.08	4727L2-005C 312.67	4723L2-005C 480.00	4732L2-005C 325.66	4731L2-005CSR 328.09	4737L2-005C 325.66	4733L2-005C 491.61	617
	Triple L-Port	4722L3-005C 312.67	4721L3-005CSR 315.08	4727L3-005C 312.67	4723L3-005C 480.00	4732L3-005C 325.66	4731L3-005CSR 328.09	4737L3-005C 325.66	4733L3-005C 491.61	617
	T-Port	4722T1-005C 156.94	4721T1-005CSR 159.53	4727T1-005C 156.94	4723T1-005C 324.26	4732T1-005C 169.93	4731T1-005CSR 172.52	4737T1-005C 169.93	4733T1-005C 336.06	617
3/4	L-Port	4722L1-007C 184.15	4721L1-007CSR 190.54	4727L1-007C 184.15	4723L1-007C 340.56	4732L1-007C 200.60	4731L1-007CSR 207.00	4737L1-007C 200.60	4733L1-007C 354.93	617
	Double L-Port	4722L2-007C 339.86	4721L2-007CSR 345.92	4727L2-007C 339.86	4723L2-007C 496.13	4732L2-007C 356.32	4731L2-007CSR 362.56	4737L2-007C 356.32	4733L2-007C 510.48	617
	Triple L-Port	4722L3-007C 339.86	4721L3-007CSR 345.92	4727L3-007C 339.86	4723L3-007C 496.13	4732L3-007C 356.32	4731L3-007CSR 362.56	4737L3-007C 356.32	4733L3-007C 510.48	617
	T-Port	4722T1-007C 184.15	4721T1-007CSR 190.54	4727T1-007C 183.68	4723T1-007C 340.56	4732T1-007C 200.60	4731T1-007CSR 207.00	4737T1-007C 200.60	4733T1-007C 354.93	617
1	L-Port	4722L1-010C 223.81	4721L1-010CSR 230.05	4727L1-010C 223.81	4723L1-010C 485.72	4732L1-010C 249.27	4731L1-010CSR 255.51	4737L1-010C 249.27	4733L1-010C 525.73	617
	Double L-Port	4722L2-010C 379.52	4721L2-010CSR 385.76	4727L2-010C 379.52	4723L2-010C 641.43	4732L2-010C 404.81	4731L2-010CSR 411.07	4737L2-010C 404.81	4733L2-010C 681.45	617
	Triple L-Port	4722L3-010C 379.52	4721L3-010CSR 385.76	4727L3-010C 379.52	4723L3-010C 641.43	4732L3-010C 404.81	4731L3-010CSR 411.07	4737L3-010C 404.81	4733L3-010C 681.45	617
	T-Port	4722T1-010C 223.81	4721T1-010CSR 230.05	4727T1-010C 223.81	4723T1-010C 485.72	4732T1-010C 249.27	4731T1-010CSR 255.51	4737T1-010C 249.27	4733T1-010C 525.73	617
1-1/4	L-Port	4722L1-012C 270.75	4721L1-012CSR 283.21	4727L1-012C 270.75	4723L1-012C 915.65	4732L1-012C 319.07	4731L1-012CSR 331.55	4737L1-012C 319.07	4733L1-012C 968.48	617
	Double L-Port	4722L2-012C 426.29	4721L2-012CSR 438.77	4727L2-012C 426.29	4723L2-012C 1071.22	4732L2-012C 474.62	4731L2-012CSR 487.97	4737L2-012C 474.62	4733L2-012C 730.66	617
	Triple L-Port	4722L3-012C 426.29	4721L3-012CSR 438.77	4727L3-012C 426.29	4723L3-012C 1071.22	4732L3-012C 474.62	4731L3-012CSR 487.97	4737L3-012C 474.62	4733L3-012C 1124.04	617
	T-Port	4722T1-012C 270.75	4721T1-012CSR 283.21	4727T1-012C 270.75	4723T1-012C 915.65	4732T1-012C 319.07	4731T1-012CSR 331.55	4737T1-012C 319.07	4733T1-012C 968.48	617
1-1/2	L-Port	4722L1-015C 313.00	4721L1-015CSR 333.11	4727L1-015C 313.00	4723L1-015C 949.80	4732L1-015C 343.15	4731L1-015CSR 363.23	4737L1-015C 343.15	4733L1-015C 979.05	617
	Double L-Port	4722L2-015C 468.76	4721L2-015CSR 488.65	4727L2-015C 468.76	4723L2-015C 1105.32	4732L2-015C 498.89	4731L2-015CSR 558.62	4737L2-015C 498.89	4733L2-015C 1134.78	617
	Triple L-Port	4722L3-015C 468.76	4721L3-015CSR 488.65	4727L3-015C 468.76	4723L3-015C 1105.32	4732L3-015C 498.89	4731L3-015CSR 558.62	4737L3-015C 498.89	4733L3-015C 1134.78	617
	T-Port	4722T1-015C 313.00	4721T1-015CSR 333.11	4727T1-015C 313.00	4723T1-015C 949.80	4732T1-015C 343.15	4731T1-015CSR 363.23	4737T1-015C 343.15	4733T1-015C 979.05	617
2	L-Port	4722L1-020C 384.04	4721L1-020CSR 405.67	4727L1-020C 384.04	4723L1-020C 1223.99	4732L1-020C 445.86	4731L1-020CSR 467.52	4737L1-020C 445.86	4733L1-020C 1278.04	617
	Double L-Port	4722L2-020C 539.61	4721L2-020CSR 561.41	4727L2-020C 539.61	4723L2-020C 1332.96	4732L2-020C 601.44	4731L2-020CSR 623.06	4737L2-020C 601.44	4733L2-020C 1433.76	617
	Triple L-Port	4722L3-020C 539.61	4721L3-020CSR 561.41	4727L3-020C 539.61	4723L3-020C 1332.96	4732L3-020C 601.44	4731L3-020CSR 623.06	4737L3-020C 601.44	4733L3-020C 1433.76	617
	T-Port	4722T1-020C 384.04	4721T1-020CSR 405.67	4727T1-020C 384.04	4723T1-020C 1223.99	4732T1-020C 445.86	4731T1-020CSR 467.52	4737T1-020C 445.86	4733T1-020C 1278.04	617
2-1/2	L-Port	4722L1-025C 1350.63	4721L1-025CSR 1406.56	4727L1-025C 1350.63	4723L1-025C 2143.79	4732L1-025C 1365.85	4731L1-025CSR 1421.81	4737L1-025C 1365.85	4733L1-025C 2498.75	617
	Double L-Port	4722L2-025C 1506.17	4721L2-025CSR 1544.08	4727L2-025C 1506.17	4723L2-025C 2299.54	4732L2-025C 1521.42	4731L2-025CSR 1577.38	4737L2-025C 1521.42	4733L2-025C 2654.31	617
	Triple L-Port	4722L3-025C 1506.17	4721L3-025CSR 1544.08	4727L3-025C 1506.17	4723L3-025C 2299.54	4732L3-025C 1521.42	4731L3-025CSR 1577.38	4737L3-025C 1521.42	4733L3-025C 2654.31	617
	T-Port	4722T1-025C 1350.63	4721T1-025CSR 1406.56	4727T1-025C 1350.63	4723T1-025C 2143.79	4732T1-025C 1365.85	4731T1-025CSR 1421.81	4737T1-025C 1365.85	4733T1-025C 2498.75	617
3	L-Port	4722L1-030C 1378.33	4721L1-030CSR 1434.28	4727L1-030C 1378.33	4723L1-030C 2173.62	4732L1-030C 1390.47	4731L1-030CSR 1446.60	4737L1-030C 1390.47	4733L1-030C 2515.20	617
	Double L-Port	4722L2-030C 1533.91	4721L2-030CSR 1571.82	4727L2-030C 1533.91	4723L2-030C 2329.15	4732L2-030C 1546.18	4731L2-030CSR 1602.15	4737L2-030C 1546.18	4733L2-030C 2670.75	617
	Triple L-Port	4722L3-030C 1533.91	4721L3-030CSR 1571.82	4727L3-030C 1533.91	4723L3-030C 2329.15	4732L3-030C 1546.18	4731L3-030CSR 1602.15	4737L3-030C 1546.18	4733L3-030C 2670.75	617
	T-Port	4722T1-030C 1378.33	4721T1-030CSR 1434.28	4727T1-030C 1378.33	4723T1-030C 2173.62	4732T1-030C 1390.47	4731T1-030CSR 1446.60	4737T1-030C 1390.47	4733T1-030C 2515.20	617
4	L-Port	4722L1-040C 2382.52	4721L1-040CSR 2446.43	4727L1-040C 2382.52	4723L1-040C 3191.12	4732L1-040C 2405.72	4731L1-040CSR 2469.64	4737L1-040C 2405.72	4733L1-040C 3309.60	617
	Double L-Port	4722L2-040C 2538.05	4721L2-040CSR 2601.98	4727L2-040C 2538.05	4723L2-040C 3315.47	4732L2-040C 2561.27	4731L2-040CSR 2625.20	4737L2-040C 2561.27	4733L2-040C 3465.15	617
	Triple L-Port	4722L3-040C 2538.05	4721L3-040CSR 2601.98	4727L3-040C 2538.05	4723L3-040C 3315.47	4732L3-040C 2561.27	4731L3-040CSR 2625.20	4737L3-040C 2561.27	4733L3-040C 3465.15	617
	T-Port	4722T1-040C 2382.52	4721T1-040CSR 2446.43	4727T1-040C 2382.52	4723T1-040C 3191.12	4732T1-040C 2405.72	4731T1-040CSR 2469.64	4737T1-040C 2405.72	4733T1-040C 3309.60	617

Schedule 80 CPVC Industrial Products & Accessories
Tee-Style "Zero Dead-Leg" Ball Valves



Valves are produced to order in Ball Valve sizes 1/2" – 2". Tee Valves can be custom produced in any standard Tee and Valve size combination.

Pressure Rating @ 73°F (23°C), Water
 Valve Sizes 1/2" - 2" (20mm - 63mm) = 235 psi
 Maximum Service Temperature
 CPVC = 200°F (93°C)
 Temperature/Pressure De-ratings Apply

Additional Notes

The Tee Valve is assembled with socket end connector. Tee Valves are a non-stock configuration. All orders are non-cancelable, non-returnable.

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Mainline Socket Tee x Valve Socket					
1/2	182901-005C 251.47	183901-005C 263.35	1	12	264
3/4	182901-007C 274.80	183901-007C 288.40	1	8	264
1	182901-010C 279.99	183901-010C 300.41	1	8	264
2	182901-020C 305.92	183901-020C 353.36	1	4	264
3/4X1/2	182901-101C 255.63	183901-101C 267.48	1	12	264
1X1/2	182901-130C 231.83	183901-130C 277.07	1	8	264
1X3/4	182901-131C 279.99	183901-131C 293.61	1	8	264
1-1/4X1/2	182901-166C 283.69	183901-166C 295.58	1	8	264
1-1/4X3/4	182901-167C 285.19	183901-167C 298.78	1	8	264
1-1/4X1	182901-168C 326.88	183901-168C 347.29	1	8	264
1-1/2X1/2	182901-209C 318.65	183901-209C 329.88	1	8	264
1-1/2X3/4	182901-210C 327.88	183901-210C 335.95	1	8	264
1-1/2X1	182901-211C 339.20	183901-211C 347.29	1	8	264
2X1/2	182901-247C 363.89	183901-247C 375.75	1	8	264
2X3/4	182901-248C 392.64	183901-248C 406.24	1	8	264
2X1	182901-249C 413.22	183901-249C 433.63	1	8	264
2X1-1/2	182901-251C 485.20	183901-251C 510.64	1	0	264
3X1/2	182901-333C 479.02	183901-333C 490.88	1	0	264
3X1	182901-335C 501.63	183901-335C 522.04	1	0	264
3X1-1/2	182901-337C 571.54	183901-337C 596.99	1	0	264
3X2	182901-338C 627.05	183901-338C 674.49	1	0	264
4X1	182901-417C 616.77	183901-417C 637.18	1	0	264
4X1-1/2	182901-419C 686.65	183901-419C 712.13	1	0	264
4X2	182901-420C 818.23	183901-420C 865.67	1	0	264
6X2	182901-528C 1068.74	183901-528C 1116.17	1	0	264
8X2	182901-578C 1576.85	183901-578C 1624.31	1	0	264

CPVC Metric

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Mainline Socket Tee x Valve Socket					
20	182901M-020C 251.47	183901M-020C 263.35	1	8	264

CPVC Metric (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Mainline Socket Tee x Valve Socket					
25	182901M-025C 292.34	183901M-025C 288.40	1	8	263
32	182901M-032C 279.99	183901M-032C 300.41	1	8	264
40	182901M-040C 283.87	183901M-040C 302.98	1	8	264
50	182901M-050C 288.93	183901M-050C 340.43	1	8	264
63	182901M-063C 305.92	183901M-063C 353.36	1	8	264



Schedule 80 CPVC Industrial Products & Accessories True Union 2000 Standard Ball Valves



Socket Style

Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" = 235 psi
 2-1/2" - 4" = 150 psi
 Flanged = 150 psi

Maximum Service Temperature
 CPVC = 200°F (93°C)

Temperature/Pressure De-ratings Apply
 All Valves Assembled with Silicone-Free, Water Soluble Lubricant
 See Ball Valve Accessories & Repair Kits Section for Additional Options and Features

CPVC Standard

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Socket & Threaded Ends

1/2	3629-005C 52.48	3639-005C 58.36	1	18	610
3/4	3629-007C 66.13	3639-007C 73.49	1	18	610
1	3629-010C 78.73	3639-010C 87.47	1	12	610
1-1/4	3629-012C 125.16	3639-012C 139.11	1	8	610
1-1/2	3629-015C 132.16	3639-015C 146.85	1	8	610
2	3629-020C 176.78	3639-020C 203.21	1	4	610

Socket Ends

2-1/2	3622-025C 396.31	3632-025C 440.32	1	0	611
3	3622-030C 463.39	3632-030C 514.91	1	0	611
4	3622-040C 839.66	3632-040C 932.96	1	0	611

Threaded Ends

2-1/2	3621-025C 396.31	3631-025C 440.32	1	0	611
3	3621-030C 463.39	3631-030C 514.91	1	0	611
4	3621-040C 839.66	3631-040C 932.96	1	0	611

SR Threaded Ends

1/2	3621-005CSR 53.34	3631-005CSR 59.19	1	18	610
3/4	3621-007CSR 68.21	3631-007CSR 75.56	1	18	610
1	3621-010CSR 80.77	3631-010CSR 89.48	1	18	610
1-1/4	3621-012CSR 131.34	3631-012CSR 145.26	1	12	610
1-1/2	3621-015CSR 138.17	3631-015CSR 153.47	1	8	610
2	3621-020CSR 183.94	3631-020CSR 210.39	1	8	610
2-1/2	3621-025CSR 415.65	3631-025CSR 459.67	1	0	611
3	3621-030CSR 482.73	3631-030CSR 534.25	1	0	611
4	3621-040CSR 862.26	3631-040CSR 956.28	1	0	611

Spigot Ends

1/2	3627-005C 52.48	3637-005C 58.36	1	18	610
3/4	3627-007C 66.13	3637-007C 73.49	1	18	610
1	3627-010C 78.73	3637-010C 87.47	1	12	610
1-1/4	3627-012C 125.16	3637-012C 139.11	1	12	610
1-1/2	3627-015C 132.16	3637-015C 146.85	1	8	610
2	3627-020C 176.78	3637-020C 203.21	1	8	610

CPVC Standard (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Spigot Ends

2-1/2	3627-025C 396.31	3637-025C 440.32	1	0	611
3	3627-030C 463.39	3637-030C 514.91	1	0	611
4	3627-040C 839.66	3637-040C 932.96	1	0	611

Flanged Ends

1/2	3623-005C 89.08	3633-005C 91.01	1	8	610
3/4	3623-007C 109.19	3633-007C 113.80	1	8	610
1	3623-010C 125.01	3633-010C 132.71	1	8	610
1-1/4	3623-012C 186.79	3633-012C 193.34	1	4	610
1-1/2	3623-015C 205.47	3633-015C 212.31	1	4	610
2	3623-020C 285.91	3633-020C 340.49	1	0	610
2-1/2	3623-025C 533.62	3633-025C 640.52	1	0	611
3	3623-030C 731.60	3633-030C 798.18	1	0	611
4	3623-040C 1368.66	3633-040C 1423.40	1	0	611

Schedule 80 CPVC Industrial Products & Accessories
True Union 2000 Industrial Retrofit Ball Valves - Replaces Other Brand Valves



Industrial Valve

Complete universal replacement valve for domestic and import CPVC valve. See separate catalog listing for retrofit replacement of older Spears® valves.

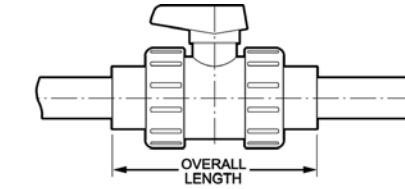
Retrofit valve consists of Spears® Industrial True Union 2000 Ball Valve supplied with factory installed extended-socket end connectors. Simply cut out old valve to specified dimensions and install Retrofit Valve end connectors.

Pressure Rating @ 73°F (23°C), Water
 1/2" - 4" = 235 psi

All Valves Assembled with Silicone-Free,
 Water Soluble Lubricant

Suitable for Vacuum Service

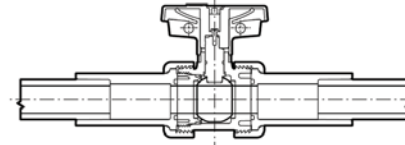
Retrofit End Connector Sets without
 valve are also available - See
 Ball Valve Accessories & Repair Kits



**BALL VALVE FOR
 REPLACEMENT**



**PIPE LAYING LENGTH
 AFTER CUTTING**



**TRUE UNION 2000
 INDUSTRIAL BALL
 VALVE INSTALLED
 WITH RETROFIT KIT**

Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
L	4-29/32	5-7/16	6-3/32	7-1/4	7-1/2	8-17/32	10-3/4	11-7/16	14-15/16

CPVC - Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	1822R-005C 65.63	1832R-005C 72.93	1	18	602
3/4	1822R-007C 82.65	1832R-007C 91.86	1	18	602
1	1822R-010C 98.40	1832R-010C 109.33	1	12	602
1-1/4	1822R-012C 156.43	1832R-012C 173.86	1	8	602
1-1/2	1822R-015C 165.21	1832R-015C 183.57	1	8	602
2	1822R-020C 220.95	1832R-020C 254.00	1	4	602
2-1/2	1822R-025C 495.39	1832R-025C 550.40	1	0	603
3	1822R-030C 579.22	1832R-030C 643.63	1	0	603
4	1822R-040C 1049.59	1832R-040C 1166.19	1	0	603



Schedule 80 CPVC Industrial Products & Accessories

True Union 2000 Industrial Retrofit Ball Valves - Replaces Spears® "Regular Style" Valves



Industrial Valve

Complete replacement valve for older Spears® 2300 Series Regular True Union Ball Valves. See separate catalog listing for replacement of other brand valves.

Retrofit valve consists of Spears® Industrial True Union 2000 Ball Valve supplied with factory installed extended-socket end connectors. Simply cut out old valve to specified dimensions and install Retrofit Valve end connectors.

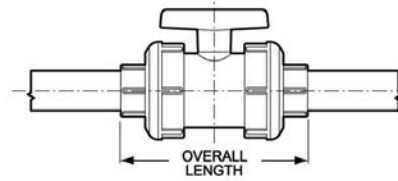
Pressure Rating @ 73°F (23°C),
Water

1/2" - 4" 235 psi

All Valves Assembled with Silicone-Free,
Water Soluble Lubricant

Suitable for Vacuum Service

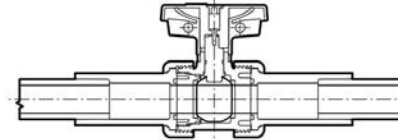
Retrofit End Connector Sets without
valve are also available - See
Ball Valve Accessories & Repair Kits



BALL VALVE FOR
REPLACEMENT



PIPE LAYING LENGTH
AFTER CUTTING



TRUE UNION 2000
INDUSTRIAL BALL
VALVE INSTALLED
WITH RETROFIT KIT

Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
L	5-5/16	6-1/4	6-11/16	7-1/8	8-3/16	8-15/16	12	12-1/16	13-3/16

CPVC - Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	1822RS-005C 65.63	1832RS-005C 72.93	1	18	602
3/4	1822RS-007C 82.65	1832RS-007C 91.86	1	18	602
1	1822RS-010C 98.40	1832RS-010C 109.33	1	12	602
1-1/4	1822RS-012C 156.43	1832RS-012C 173.86	1	8	602
1-1/2	1822RS-015C 165.21	1832RS-015C 183.57	1	8	602
2	1822RS-020C 220.95	1832RS-020C 254.00	1	4	602
2-1/2	1822RS-025C 495.39	1832RS-025C 550.40	1	0	603
3	1822RS-030C 579.22	1832RS-030C 643.63	1	0	603
4	1822RS-040C 1049.59	1832RS-040C 1166.19	1	0	603



True Union 2000 Standard Retrofit Ball Valves - Replaces Other Brand Valves



Standard Valve

Complete universal replacement valve for domestic and import CPVC valve. See separate catalog listing for retrofit replacement of older Spears® valves.

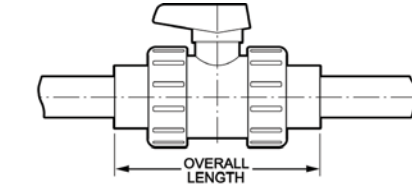
Retrofit valve consists of Spears® Standard True Union 2000 Ball Valve supplied with factory installed extended-socket end connectors. Simply cut out old valve to specified dimensions and install Retrofit Valve end connectors.

Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" 235 psi
 2-1/2" - 4" 150 psi

All Valves Assembled with Silicone-Free, Water Soluble Lubricant.

Suitable for Vacuum Service.

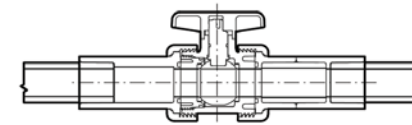
Retrofit End Connector Sets without valve are also available - See Ball Valve Accessories & Repair Kits



BALL VALVE FOR REPLACEMENT



PIPE LAYING LENGTH AFTER CUTTING



TRUE UNION 2000 STANDARD BALL VALVE INSTALLED WITH RETROFIT KIT

Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
L	4-29/32	5-7/16	6-3/32	7-1/4	7-1/2	8-17/32	10-3/4	11-7/16	14-15/16

CPVC - Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	3622R-005C 52.48	3632R-005C 58.36	1	18	610
3/4	3622R-007C 66.13	3632R-007C 73.49	1	12	610
1	3622R-010C 78.73	3632R-010C 87.47	1	8	610
1-1/4	3622R-012C 125.16	3632R-012C 139.11	1	8	610
1-1/2	3622R-015C 132.16	3632R-015C 146.85	1	8	610

CPVC - Socket Ends (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
2	3622R-020C 176.78	3632R-020C 203.21	1	4	610
2-1/2	3622R-025C 396.31	3632R-025C 440.32	1	0	611
3	3622R-030C 463.39	3632R-030C 514.91	1	0	611
4	3622R-040C 839.66	3632R-040C 932.96	1	0	611

True Union 2000 Standard Retrofit Ball Valves - Replaces Spears® "Regular Style" Valves



Standard Valve

Complete replacement valve for older Spears® 2300 Series Regular True Union Ball Valves. See separate catalog listing for replacement of other brand valves.

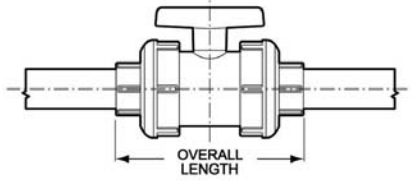
Retrofit valve consists of Spears® Standard True Union 2000 Ball Valve supplied with factory installed extended-socket end connectors. Simply cut out old valve to specified dimensions and install Retrofit Valve end connectors.

Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" 235 psi
 2-1/2" - 4" 150 psi

All Valves Assembled with Silicone-Free, Water Soluble Lubricant

Suitable for Vacuum Service

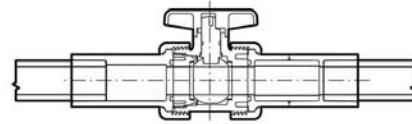
Retrofit End Connector Sets without valve are also available - See Ball Valve Accessories & Repair Kits



BALL VALVE FOR REPLACEMENT



PIPE LAYING LENGTH AFTER CUTTING



TRUE UNION 2000 STANDARD BALL VALVE INSTALLED WITH RETROFIT KIT

Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
L	5-5/16	6-1/4	6-11/16	7-1/8	8-3/16	8-15/16	12	12-1/16	13-3/16

CPVC - Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	3622RS-005C 52.48	3632RS-005C 58.36	1	18	610
3/4	3622RS-007C 66.13	3632RS-007C 73.49	1	18	610
1	3622RS-010C 78.73	3632RS-010C 87.47	1	12	610
1-1/4	3622RS-012C 125.16	3632RS-012C 139.11	1	8	610
1-1/2	3622RS-015C 132.16	3632RS-015C 146.85	1	8	610

CPVC - Socket Ends (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
2	3622RS-020C 176.78	3632RS-020C 203.21	1	4	610
2-1/2	3622RS-025C 396.31	3632RS-025C 440.32	1	0	611
3	3622RS-030C 463.39	3632RS-030C 514.91	1	0	611
4	3622RS-040C 839.66	3632RS-040C 932.96	1	0	611



Schedule 80 CPVC Industrial Products & Accessories True Union Ball Valves (Regular Style) & Compact 2000 Ball Valves

True Union Ball Valves (Regular Style)



Socket/Threaded Style

Pressure Rating @ 73°F (23°C), Water

1/2" - 2" 235 psi

2-1/2" - 6" 150 psi

Flanged 150 psi

Maximum Service Temperature

CPVC = 200°F (93°C)

Temperature/Pressure De-ratings Apply

Rated for Vacuum Service

All Valves assembled with Silicone-Free, Water Soluble Lubricant.

6" Venturied Valves are 4" Ball Valves equipped with 4x6 End Connectors.

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Socket & Threaded Ends

Threaded End Connectors available on request

1/2	2329-005C 75.57	2339-005C 84.00	1	18	232
3/4	2329-007C 95.21	2339-007C 105.80	1	12	232
1	2329-010C 113.32	2339-010C 125.92	1	8	232
1-1/4	2329-012C 180.16	2339-012C 200.24	1	8	232
1-1/2	2329-015C 190.27	2339-015C 211.42	1	8	232
2	2329-020C 254.49	2339-020C 292.53	1	4	232

Socket Ends

2-1/2	2322-025C 542.01	2332-025C 602.21	1	0	232
3	2322-030C 633.75	2332-030C 704.19	1	0	232
4	2322-040C 1148.37	2332-040C 1275.97	1	0	232

Socket Venturied Ends

6 VENTURIED	2322-060C 1910.38	2332-060C 1982.16	1	0	233
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Threaded Ends

2-1/2	2321-025C 542.01	2331-025C 602.21	1	0	232
3	2321-030C 633.75	2331-030C 704.19	1	0	232

CPVC (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Threaded Ends

4	2321-040C 1148.37	2331-040C 1275.97	1	0	232
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Flanged Ends

1/2	2323-005C 128.23	2333-005C 131.00	6	0	232
3/4	2323-007C 157.20	2333-007C 163.75	5	0	232
1	2323-010C 179.99	2333-010C 191.05	5	0	232
1-1/4	2323-012C 268.89	2333-012C 278.33	2	0	232
1-1/2	2323-015C 295.79	2333-015C 305.61	3	0	232
2	2323-020C 411.60	2333-020C 490.19	2	0	232
2-1/2	2323-025C 729.80	2333-025C 875.99	1	0	232
3	2323-030C 1067.29	2333-030C 1091.61	1	0	232
4	2323-040C 1871.83	2333-040C 1946.69	1	0	232

Flanged Venturied Ends

6 VENTURIED	2323-060C 2901.42	2333-060C 3001.97	1	0	233
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Compact 2000 Ball Valves



Pressure Rating @ 73°F (23°C), Water

1/2" - 2" 235 psi

Maximum Service Temperature

CPVC = 200°F (93°C)

Temperature/Pressure De-ratings Apply

All Valves Assembled with Silicone-Free, Water Soluble Lubricants.

Rated for Vacuum Service

Compact 2000 Ball Valves are a Maintenance-Free, Sealed Unit (non-repairable).
See Ball Valve Accessories & Repair Kits Section for Additional Options and Features.

CPVC 2000 Compact Ball Valve

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Socket Ends

1/2	6622-005C 24.93	6632-005C 27.74	10	120	212
3/4	6622-007C 32.88	6632-007C 36.95	10	80	212

CPVC 2000 Compact Ball Valve (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
------	------	-----	--------	---------	-----------

Socket Ends

1	6622-010C 41.09	6632-010C 46.21	10	0	212
1-1/4	6622-012C 67.25	6632-012C 83.12	6	0	212

Schedule 80 CPVC Industrial Products & Accessories
Compact 2000 Ball Valves & Compact Ball Valves (Regular Style)



Compact 2000 Ball Valves

CPVC 2000 Compact Ball Valve (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Socket Ends					
1-1/2	6622-015C 83.18	6632-015C 92.42	5	0	212
2	6622-020C 108.97	6632-020C 122.43	8	0	212
Threaded Ends					
1/2	6621-005C 24.93	6631-005C 27.74	10	120	212
3/4	6621-007C 32.88	6631-007C 36.95	10	80	212
1	6621-010C 41.09	6631-010C 46.21	10	0	212
1-1/4	6621-012C 67.25	6631-012C 83.12	6	0	212
1-1/2	6621-015C 83.18	6631-015C 92.42	5	0	212

CPVC 2000 Compact Ball Valve (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Threaded Ends					
2	6621-020C 108.97	6631-020C 122.43	8	0	212
Flanged Ends					
1/2	6623-005C 68.21	6633-005C 70.32	1	0	212
3/4	6623-007C 80.63	6633-007C 84.19	1	0	212
1	6623-010C 106.11	6633-010C 112.37	1	0	212
1-1/4	6623-012C 133.47	6633-012C 140.63	1	0	212
1-1/2	6623-015C 168.63	6633-015C 178.73	1	0	212
2	6623-020C 234.95	6633-020C 241.89	1	0	212

Compact Ball Valves (Regular Style)



Socket/Threaded Style

Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" 235 psi
 3" - 6" 150 psi
 Flanged 150 psi
 Maximum Service Temperature
 CPVC = 200°F (93°C)
 Temperature/Pressure De-ratings Apply
 Rated for Vacuum Service

All Valves Assembled with Silicone-Free, Water Soluble Lubricants.
 See Ball Valve Accessories & Repair Kits Section for Additional
 Options & Features

Note: Standard 6" Valve uses Lever-Style Handle for proper leverage.
 T-Handle option is more compact but will increase difficulty of
 operation.

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Socket Ends					
1/2	2122-005C 26.24	2132-005C 29.18	10	80	212
3/4	2122-007C 34.61	2132-007C 38.91	10	0	212
1	2122-010C 43.27	2132-010C 48.64	10	0	212
1-1/4	2122-012C 87.56	2132-012C 97.25	6	0	212
1-1/2	2122-015C 108.18	2132-015C 113.73	5	0	212
2	2122-020C 114.72	2132-020C 128.89	6	0	212
3	2122-030C 349.04	2132-030C 389.31	1	4	213
4	2122-040C 645.24	2132-040C 724.94	1	0	213
6 (Lever Handle)	2122-060C 1054.51	2132-060C 1123.62	1	0	213
6 (Tee Handle)	2122-060C 1054.51	2132-060C 1123.62	1	0	213
Threaded Ends					
1/2	2121-005C 26.24	2131-005C 29.18	10	80	212
3/4	2121-007C 34.61	2131-007C 38.91	10	0	212
1	2121-010C 43.27	2131-010C 48.64	10	0	212
1-1/4	2121-012C 87.56	2131-012C 97.25	6	0	212
1-1/2	2121-015C 108.18	2131-015C 113.73	5	0	212
2	2121-020C 114.72	2131-020C 128.89	6	0	212

CPVC (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Threaded Ends					
3	2121-030C 349.04	2131-030C 389.31	1	4	213
4	2121-040C 645.24	2131-040C 724.94	1	0	213
Flanged Ends					
1/2	2123-005C 73.15	2133-005C 76.11	1	8	212
3/4	2123-007C 84.93	2133-007C 89.22	1	8	212
1	2123-010C 100.42	2133-010C 105.81	1	8	212
1-1/4	2123-012C 158.24	2133-012C 167.96	1	8	212
1-1/2	2123-015C 197.89	2133-015C 204.01	1	4	212
2	2123-020C 224.11	2133-020C 238.28	1	0	212
3	2123-030C 536.68	2133-030C 576.95	1	0	213
4	2123-040C 838.37	2133-040C 918.05	1	0	213
6 (Lever Handle)	2123-060C 1592.42	2133-060C 1708.33	1	0	213
6 (Tee Handle)	2123-060C 1592.42	2133-060C 1708.33	1	0	213



Schedule 80 CPVC Industrial Products & Accessories Utility Ball Valves & Lab Ball Valves

Utility Ball Valves



Pressure Rating @ 73°F (23°C), Water
1/2" - 6" 150 psi
Maximum Service Temperature
CPVC = 200°F (93°C)
Temperature/Pressure De-ratings Apply

All Valves Assembled with Silicone-Free,
Water Soluble Lubricant

See Ball Valve Accessories & Repair Kits
Section for Additional Options and Features

CPVC w/EPDM O-ring Seal

Size	Threaded Ends	Socket Ends	Std Pk	Mstr Pk	Disc Code
CPVC					
1/2	2621-005C 12.35	2622-005C 12.35	50	0	216
3/4	2621-007C 15.69	2622-007C 15.69	25	0	216
1	2621-010C 17.05	2622-010C 17.05	25	0	216

CPVC w/EPDM O-ring Seal (continued)

Size	Threaded Ends	Socket Ends	Std Pk	Mstr Pk	Disc Code
CPVC					
1-1/4	2621-012C 24.03	2622-012C 24.03	20	0	216
1-1/2	2621-015C 37.26	2622-015C 37.26	20	0	216
2	2621-020C 46.35	2622-020C 46.35	8	0	216

Lab Ball Valves



Socket/Threaded Valve Only

Pressure Rating @ 73°F (23°C),
Water
1/4" - 3/8" 150 psi
Maximum Service Temperature
CPVC = 200°F (93°C)
Temperature/Pressure De-ratings
Apply
Rated for Vacuum Service

Valve & Adapters includes:

- 1 - Threaded 1/4" Valve
- 2 - O-ring Sealed 1/4" MPT x Mipt Adapters
- 2 - EPDM or FKM O-rings (AS568-013 size)
- 1 - End Connector Wrench
- 2 - O-ring Sealed 1/4" MPT x 3/8" I.D. Tubing Barb Adapters
- OR -
- 2 - O-ring Sealed 1/4" MPT x 1/4" I.D. Tubing Barb Adapters



Valve & Adapters

All Valves Assembled with Silicone-Free, Water Soluble Lubricant

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
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Valve & Adapters Threaded Ends

1/4X3/8T	1529-002C 30.91	1539-002C 31.51	1	25	219
1/4X1/4T	1529-002CA 30.91	1539-002CA 31.51	1	25	219

Valve only Threaded Ends

1/4	1521-002C 24.75	1531-002C 27.21	50	200	219
3/8	1521-003C 34.71	1531-003C 32.53	50	200	219

Valve only Socket Ends

1/4	1522-002C 24.75	1532-002C 29.45	50	200	219
3/8	1522-003C 34.71	1532-003C 38.53	50	200	219