

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



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

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

Socket Style

General Installation Information: Ball check valves may be installed in either horizontal or vertical position. A minimum of ten (10) pipe diameters' distance maintained from any pump or other source of turbulence. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of flow.

CPVC Industrial

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Socket & Threaded Ends					
1/2	4529-005C 83.31	4539-005C 92.74	1	18	606
3/4	4529-007C 99.71	4539-007C 110.81	1	18	606
1	4529-010C 117.65	4539-010C 130.71	1	18	606
1-1/4	4529-012C 202.63	4539-012C 224.94	1	12	606
1-1/2	4529-015C 202.63	4539-015C 224.94	1	8	606
2	4529-020C 270.65	4539-020C 301.56	1	8	606

Socket Ends

2-1/2	4522-025C 567.14	4532-025C 630.13	1	0	607
3	4522-030C 753.47	4532-030C 820.66	1	0	607
4	4522-040C 1244.54	4532-040C 1383.69	1	0	607
6	4522-060C 2569.49	4532-060C 2854.63	1	0	559
8	4522-080C 3022.95	4532-080C 3805.11	1	0	559

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

Threaded Ends

2-1/2	4521-025C 567.14	4531-025C 630.13	1	0	607
3	4521-030C 751.23	4531-030C 841.78	1	0	607
4	4521-040C 1244.54	4531-040C 1383.69	1	0	607
6	4521-060C 2569.49	4531-060C 2854.63	1	0	559

SR Threaded Ends

1/2	4521-005CSR 84.42	4531-005CSR 93.87	1	18	606
3/4	4521-007CSR 102.44	4531-007CSR 113.51	1	18	606
1	4521-010CSR 120.35	4531-010CSR 133.43	1	18	606
1-1/4	4521-012CSR 208.03	4531-012CSR 233.68	1	12	606
1-1/2	4521-015CSR 208.03	4531-015CSR 233.68	1	8	606
2	4521-020CSR 280.11	4531-020CSR 311.02	1	8	606
2-1/2	4521-025CSR 591.64	4531-025CSR 654.32	1	0	607
3	4521-030CSR 591.64	4531-030CSR 881.74	1	0	607
4	4521-040CSR 1272.76	4531-040CSR 1411.94	1	0	607
6	4521-060CSR 2638.78	4531-060CSR 2923.92	1	0	559

CPVC Industrial

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Spigot Ends					
1/2	4527-005C 83.31	4537-005C 92.74	1	18	606
3/4	4527-007C 99.71	4537-007C 110.81	1	18	606
1	4527-010C 117.65	4537-010C 130.71	1	12	606
1-1/4	4527-012C 202.63	4537-012C 224.94	1	12	606
1-1/2	4527-015C 230.09	4537-015C 224.94	1	8	606
2	4527-020C 270.65	4537-020C 301.56	1	8	606
2-1/2	4527-025C 567.14	4537-025C 630.13	1	0	607
3	4527-030C 737.00	4537-030C 815.96	1	0	607
4	4527-040C 1244.54	4537-040C 1383.69	1	0	607
6	4527-060C 2569.49	4537-060C 2854.63	1	0	559

Flanged Ends

1/2	4523-005C 103.44	4533-005C 129.26	1	8	606
3/4	4523-007C 123.41	4533-007C 156.22	1	8	606
1	4523-010C 147.36	4533-010C 181.67	1	8	606
1-1/4	4523-012C 248.55	4533-012C 308.19	1	8	606
1-1/2	4523-015C 265.54	4533-015C 331.81	1	4	606
2	4523-020C 469.52	4533-020C 503.37	1	0	606
2-1/2	4523-025C 850.66	4533-025C 920.31	1	0	607
3	4523-030C 949.84	4533-030C 1042.04	1	0	607
4	4523-040C 1571.47	4533-040C 1687.47	1	0	607
6	4523-060C 4190.15	4533-060C 4356.08	1	0	559
8	4523-080C 4823.25	4533-080C 5248.27	1	0	559

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



Schedule 80 CPVC Industrial Products & Accessories True Union Ball Check Valves (Regular Style) & Foot Valve Screens

True Union Ball Check 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 Check Valves equipped with
4x6 End Connectors.

General Installation Information: Ball check valves may be installed in either horizontal or vertical position. A minimum of ten (10) pipe diameters' distance maintained from any pump or other source of turbulence. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of flow.

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Socket & Threaded Ends					
1/2	2229-005C 91.15	2239-005C 101.47	1	18	222
3/4	2229-007C 109.11	2239-007C 121.24	1	12	222
1	2229-010C 128.74	2239-010C 143.02	1	8	222
1-1/4	2229-012C 221.69	2239-012C 246.12	1	8	222
1-1/2	2229-015C 268.08	2239-015C 283.37	1	8	222
2	2229-020C 296.87	2239-020C 329.95	1	4	222

Socket Ends

2-1/2	2222-025C 620.52	2232-025C 689.44	1	0	222
3	2222-030C 1010.72	2232-030C 1106.06	1	0	222
4	2222-040C 1361.67	2232-040C 1513.93	1	0	222

Socket Venturied Ends

6 VENTURIED	2222-060C 1756.56	2232-060C 1968.07	1	0	223
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Threaded Ends

2-1/2	2221-025C 620.52	2231-025C 689.44	1	0	222
3	2221-030C 1010.72	2231-030C 1106.06	1	0	222
4	2221-040C 1361.67	2231-040C 1513.93	1	0	222

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Flanged Ends					
1/2	2223-005C 113.18	2233-005C 141.42	6	0	222
3/4	2223-007C 135.02	2233-007C 170.94	5	0	222
1	2223-010C 161.22	2233-010C 198.76	5	0	222
1-1/4	2223-012C 271.95	2233-012C 337.19	2	0	222
1-1/2	2223-015C 290.53	2233-015C 363.03	3	0	222
2	2223-020C 513.69	2233-020C 550.75	2	0	222
2-1/2	2223-025C 817.39	2233-025C 930.72	1	0	222
3	2223-030C 1039.25	2233-030C 1140.12	1	0	222
4	2223-040C 1719.37	2233-040C 1846.29	1	0	222

Flanged Venturied Ends

6 VENTURIED	2223-060C 2072.75	2233-060C 2243.62	1	0	223
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Foot Valve Screens

Convert Check Valve to Foot Valve using adapter - Fits all Socket Ball Check Valves
or any IPS fitting socket

Standard Foot Valve Screen



PVC/CPVC Spigot

Foot Valve Screens-Spigot

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
CPVC					
FVS-005C	1/2	10	60	299	62.85
FVS-007C	3/4	10	60	299	67.80
FVS-010C	1	10	40	299	76.97
FVS-012C	1-1/4	5	30	299	118.87
FVS-015C	1-1/2	5	0	299	123.43
FVS-020C	2	5	0	299	136.26
FVS-025C	2-1/2	5	0	299	198.53

Foot Valve Screens-Spigot (continued)

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
CPVC					
FVS-030C	3	5	0	299	221.08
FVS-040C	4	5	0	299	315.98
FVS-060C	6	5	0	299	451.53

Schedule 80 CPVC Industrial Products & Accessories Y-Check Valves



True Union Style

Pressure Rating @ 73°F (23°C), Water
 1/2" - 2" 150 psi
 3" - 4" 90 psi
 Maximum Service Temperature
 CPVC = 200°F (93°C)
 Temperature/Pressure De-ratings Apply

CPVC - Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	1622-005C 127.26	1632-005C 140.15	1	18	629
3/4	1622-007C 136.94	1632-007C 151.43	1	18	629
1	1622-010C 149.82	1632-010C 165.93	1	12	629
1-1/4	1622-012C 235.20	1632-012C 260.98	1	8	629
1-1/2	1622-015C 256.15	1632-015C 283.53	1	8	629
2	1622-020C 317.36	1632-020C 352.79	1	4	629
3	1622-030C 908.25	1632-030C 1016.27	1	0	629
4	1622-040C 1095.44	1632-040C 1217.88	1	0	629

CPVC - SR Threaded Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	1621-005CSR 130.48	1631-005CSR 144.98	1	18	629
3/4	1621-007CSR 141.77	1631-007CSR 157.88	1	12	629
1	1621-010CSR 157.88	1631-010CSR 173.98	1	8	629
1-1/4	1621-012CSR 248.09	1631-012CSR 272.25	1	8	629
1-1/2	1621-015CSR 277.08	1631-015CSR 304.48	1	4	629
2	1621-020CSR 339.91	1631-020CSR 375.37	1	0	629
3	1621-030CSR 691.11	1631-030CSR 760.38	1	0	629
4	1621-040CSR 1158.28	1631-040CSR 1280.73	1	0	629

CPVC - Flanged Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	1623-005C 165.93	1633-005C 170.80	1	8	629
3/4	1623-007C 182.05	1633-007C 202.98	1	8	629
1	1623-010C 219.11	1633-010C 243.91	1	8	629
1-1/4	1623-012C 338.31	1633-012C 375.37	1	4	629
1-1/2	1623-015C 357.62	1633-015C 397.91	1	4	629
2	1623-020C 480.06	1633-020C 533.22	1	0	629
3	1623-030C 940.81	1633-030C 1045.52	1	0	629
4	1623-040C 1501.42	1633-040C 1668.97	1	0	629

CPVC - True Union Socket Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	162A-005C 138.55	163A-005C 153.04	1	12	629

CPVC - True Union Socket Ends (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
3/4	162A-007C 148.21	163A-007C 165.93	1	8	629
1	162A-010C 162.71	163A-010C 180.43	1	8	629
1-1/4	162A-012C 254.54	163A-012C 283.53	1	4	629
1-1/2	162A-015C 277.08	163A-015C 307.71	1	0	629
2	162A-020C 344.75	163A-020C 383.40	2	0	629
3	162A-030C 683.05	163A-030C 745.86	1	0	629
4	162A-040C 1190.51	163A-040C 1322.61	1	0	629

CPVC - True Union Threaded Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	162B-005C 138.55	163B-005C 153.04	1	12	629
3/4	162B-007C 148.21	163B-007C 165.93	1	8	629
1	162B-010C 162.71	163B-010C 180.43	1	8	629
1-1/4	162B-012C 254.54	163B-012C 283.53	1	4	629
1-1/2	162B-015C 277.08	163B-015C 307.71	1	0	629
2	162B-020C 344.75	163B-020C 383.40	2	0	629
3	162B-030C 683.05	163B-030C 745.86	1	0	629
4	162B-040C 1190.51	163B-040C 1322.61	1	0	629

CPVC - True Union SR Threaded Ends

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
1/2	162B-005CSR 141.77	163B-005CSR 156.26	1	12	629
3/4	162B-007CSR 154.66	163B-007CSR 170.76	1	8	629
1	162B-010CSR 170.76	163B-010CSR 188.48	1	8	629
1-1/4	162B-012CSR 269.02	163B-012CSR 296.42	1	4	629
1-1/2	162B-015CSR 301.25	163B-015CSR 330.23	1	0	629
2	162B-020CSR 370.52	163B-020CSR 407.57	1	0	629
3	162B-030CSR 750.72	163B-030CSR 824.83	1	0	629
4	162B-040CSR 1259.79	163B-040CSR 1391.89	1	0	629



Schedule 80 CPVC Industrial Products & Accessories Butterfly Check Valves



Wafer



Flanged



Spigot



Threaded



Grooved

Pressure Rating @ 73°F (23°C), Water

2" - 8" 150 psi

10" - 16" 100 psi

18" - 24" 50 psi

Maximum Service Temperature

CPVC = 200°F (93°C)

Temperature/Pressure De-ratings Apply

General Installation Information: Butterfly Check Valve seating may be affected by normal system turbulence. Flow velocities should be limited to approximately 5 feet per second. Valves should be installed at least 5 pipe diameters away from any fitting, pump or other source of turbulence. If used as a foot valve, do not place near bottom of a tank. Butterfly type check valves should not be used in continuous cycling applications, such as with reciprocating pumps. This can result in premature failure of sealing membrane. In horizontal installations, always orient the Hinge Post Bolts visible on the external body in a vertical (top and bottom) position, perpendicular to flow. In vertical installations downstream from an elbow, flow velocities can be higher on the outer radius of the elbow. To avoid uneven butterfly plate loading, the Hinge Post Bolts should align with crotch and outer radius of elbow and NOT from side to side of the elbow.

CPVC

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Wafer					
2	5420-020C 628.27	5430-020C 697.39	1	18	290
2-1/2	5420-025C 865.88	5430-025C 917.65	1	0	290
3	5420-030C 1107.55	5430-030C 1229.38	1	0	290
4	5420-040C 1506.29	5430-040C 1671.97	1	0	290
6	5420-060C 2283.56	5430-060C 2534.76	1	0	290
8	5420-080C 3874.39	5430-080C 4300.57	1	0	290
10	5420-100C 8332.34	5430-100C 9165.58	1	0	290
12	5420-120C 14674.37	5430-120C 16141.81	1	0	290

Flanged Ends

2	5423-020C 800.28	5433-020C 839.26	1	8	290
2-1/2	5423-025C 1280.98	5433-025C 1340.74	1	0	290
3	5423-030C 1369.32	5433-030C 1465.46	1	0	290
4	5423-040C 1603.17	5433-040C 1748.67	1	0	290
6	5423-060C 2826.99	5433-060C 3120.62	1	0	290
8	5423-080C 4528.92	5433-080C 5053.80	1	0	290
10	5423-100C 8558.96	5433-100C 9312.47	1	0	290
12	5423-120C 15415.98	5433-120C 16385.20	1	0	290
14	5423-140C 22022.45	5433-140C 23407.12	1	0	290
16	5423-160C 30585.05	5433-160C 32509.86	1	0	290
18	5423-180C 38231.29	5433-180C 40637.35	1	0	290
20	5423-200C 54615.94	5433-200C 58052.18	1	0	290
24	5423-240C 68268.40	5433-240C 72564.97	1	0	290

Spigot (Plain End)

2	5427-020C 420.93	5437-020C 459.91	1	12	290
2-1/2	5427-025C 569.05	5437-025C 628.79	1	12	290
3	5427-030C 579.44	5437-030C 674.71	1	8	290
4	5427-040C 727.53	5437-040C 873.05	1	4	290
6	5427-060C 1556.42	5437-060C 1850.04	1	0	290

CPVC (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
Spigot (Plain End)					
8	5427-080C 2335.92	5437-080C 2860.78	1	0	290
10	5427-100C 5838.47	5437-100C 6592.03	1	0	290
12	5427-120C 9580.11	5437-120C 10548.42	1	0	290
14	5427-140C 10020.27	5437-140C 20928.65	1	0	290
16	5427-160C 13250.63	5437-160C 13755.01	1	0	290
18	5427-180C 20149.82	5437-180C 23126.81	1	0	290
20	5427-200C 25188.27	5437-200C 28905.66	1	0	290
24	5427-240C 26089.01	5437-240C 72564.97	1	0	290

Threaded Ends

2	5421A-020C 418.36	5431A-020C 483.31	1	12	290
2-1/2	5421A-025C 566.79	5431A-025C 627.07	1	8	290
3	5421A-030C 575.97	5431A-030C 672.09	1	8	290
4	5421A-040C 724.07	5431A-040C 869.58	1	4	290
6	5421A-060C 1544.27	5431A-060C 1837.02	1	0	290
8	5421A-080C 2325.16	5431A-080C 2850.04	1	0	290
10	5421A-100C 5829.28	5431A-100C 6582.83	1	0	290
12	5421A-120C 9564.84	5431A-120C 10534.04	1	0	290

Grooved Ends

2	542G-020C 444.34	543G-020C 514.68	1	12	290
2-1/2	542G-025C 589.82	543G-025C 649.60	1	8	290
3	542G-030C 599.33	543G-030C 695.48	1	8	290
4	542G-040C 769.11	543G-040C 915.29	1	4	290
6	542G-060C 1610.98	543G-060C 1904.60	1	0	290
8	542G-080C 2388.06	543G-080C 2912.93	1	0	290
10	542G-100C 5926.83	543G-100C 6680.34	1	0	290
12	542G-120C 9878.92	543G-120C 10848.08	1	0	290

Schedule 80 CPVC Industrial Products & Accessories Industrial Swing Check Valves



Threaded Bonnet on Sizes 3/4", 1" & 1-1/4"

Pressure Rating @ 73°F (23°C), Water
 3/4" - 4" 150 psi
 6" 100 psi
 8" 70 psi
 Maximum Service Temperature
 CPVC = 200°F (93°C)
 Temperature/Pressure De-ratings Apply
 All Valves Assembled with Silicone-Free Lubricants



Bolted Bonnet on Sizes 1-1/2" & Up
 (Valve Shown with Arrow Indicator Option)

General Installation Information: Swing check valves are designed for horizontal installations, but may be installed in up-flow only vertical position. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of the flow. Do not install valve upside down. Flow velocity should not exceed 5 ft./sec.

Industrial Swing Check Valves

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
CPVC					
3/4	4423-007C 774.01	4433-007C 860.13	1	12	109
1	4423-010C 892.53	4433-010C 992.43	1	4	109
1-1/4	4423-012C 1116.48	4433-012C 1239.96	1	0	109
1-1/2	4423-015C 1151.88	4433-015C 1565.51	1	0	109
2	4423-020C 1485.39	4433-020C 1650.42	1	0	109
2-1/2	4423-025C 2461.58	4433-025C 2921.09	1	0	111
3	4423-030C 3074.86	4433-030C 3308.52	1	0	111
4	4423-040C 3528.28	4433-040C 4161.00	1	0	111
6	4423-060C 7220.66	4433-060C 7908.09	1	0	111
8	4423-080C 12884.15	4433-080C 15066.75	1	0	111

Swing Check Valve With Counter Balance (continued)

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
CPVC					
1-1/4	4423CB-012C 1111.08	4433CB-012C 1526.17	1	0	109
1-1/2	4423CB-015C 1526.17	4433CB-015C 1764.87	1	0	109
2	4423CB-020C 1983.65	4433CB-020C 2148.72	1	0	109
2-1/2	4423CB-025C 2994.18	4433CB-025C 3453.78	1	0	111
3	4423CB-030C 3241.42	4433CB-030C 4294.28	1	0	111
4	4423CB-040C 4010.76	4433CB-040C 4718.82	1	0	111
6	4423CB-060C 7858.41	4433CB-060C 8545.80	1	0	111
8	4423CB-080C 13533.00	4433CB-080C 15715.46	1	0	111

Swing Check Valve With Arrow Indicator

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
CPVC					
3/4	4423I-007C 782.56	4433I-007C 868.15	1	12	109
1	4423I-010C 900.59	4433I-010C 1002.09	1	4	109
1-1/4	4423I-012C 1111.08	4433I-012C 1251.24	1	0	109
1-1/2	4423I-015C 1277.94	4433I-015C 1251.24	1	0	109
2	4423I-020C 1497.00	4433I-020C 1693.56	1	0	109
2-1/2	4423I-025C 2469.95	4433I-025C 2962.41	1	0	111
3	4423I-030C 2650.77	4433I-030C 3446.74	1	0	111
4	4423I-040C 3551.77	4433I-040C 4185.59	1	0	111
6	4423I-060C 7327.88	4433I-060C 7916.65	1	0	111
8	4423I-080C 12897.99	4433I-080C 15114.39	1	0	111

Swing Check Valve With Counter Balance

Size	EPDM	FKM	Std Pk	Mstr Pk	Disc Code
CPVC					
3/4	4423CB-007C 1201.33	4433CB-007C 1309.60	1	12	109
1	4423CB-010C 1303.47	4433CB-010C 1416.69	1	4	109



Schedule 80 CPVC Industrial Products & Accessories Diaphragm Check Valves



Pressure Rating @ 73°F (23°C), Water
Full Flow (open) 150 psi
Back Pressure (closed) 100 psi
Maximum Service Temperature
CPVC = 200°F (93°C)
Temperature/Pressure De-ratings Apply
Santoprene™ TPE Seat

CPVC Diaphragm Check Valves - Socket

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
6562-007C	3/4	15	0	004	117.00

CPVC Diaphragm Check Valves - Thread

Part Number	Size	Std Pk	Mstr Ctn	Disc Code	Price Each
6561-007C	3/4	15	0	004	117.00

General Installation Information: Diaphragm Check Valves have "normally closed" operation with 1 - 1-1/2 psi opening pressure and can be mounted in any position. Check valves MUST be installed with the valve's FLOW arrow pointing in the direction of the flow. Flow velocity should not exceed 5 ft./sec.