



Diaphragm Valves



PRODUCT

Contact Spears® for any Information not found.

True Union, Spigot, Flanged Diaphragm Valves



Socket/Threaded Style



Flanged Style

Pressure Rating @ 73°F (23°C), Water

1/2" - 2" 235 psi
 1/2" - 4" Flanged, PP & Valves w/PTFE
 Diaphragms 150 psi
 6" 100 psi
 8" 75 psi

Maximum Service Temperature
 PVC = 140°F (60°C)
 CPVC = 200°F (93°C)
 PP = 180°F (82°C)

Temperature/Pressure De-ratings Apply
 No Lubricants in Media Contact Area
 See Diaphragm Valve Repair Kits Section
 for Additional Options and Features

Contact Spears® for MSRP on
 Additional Specialty Diaphragms

- Hypalon®
- Hypalon® backed PTFE
- PTFE Encapsulated O-rings (for True Union Style Valves)



Spigot Style



PP Thread Style

PVC - Socket Ends (True Union Style Uses End Connector O-ring Seals)

Size	EPDM Seals & Diaphragm	FKM Seals & Diaphragm	EPDM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2729-005 153.09	2739-005 170.11	2729T-005 244.02	2739T-005 270.76	2739VT-005 333.97	1	12	270
3/4	2729-007 173.76	2739-007 193.08	2729T-007 260.60	2739T-007 292.43	2739VT-007 361.04	1	8	270
1	2729-010 214.15	2739-010 235.33	2729T-010 375.95	2739T-010 389.71	2739VT-010 459.92	1	8	270
1-1/4	2729-012 320.58	2739-012 381.17	2729T-012 516.83	2739T-012 547.83	2739VT-012 619.84	1	4	270
1-1/2	2729-015 336.97	2739-015 389.95	2729T-015 551.76	2739T-015 579.36	2739VT-015 642.40	1	4	270
2	2729-020 398.65	2739-020 472.42	2729T-020 629.17	2739T-020 660.78	2739VT-020 805.77	1	0	270

PVC - SR Threaded Ends (True Union Style Uses End Connector O-ring Seals)

Size	EPDM Seals & Diaphragm	FKM Seals & Diaphragm	EPDM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2721-005SR 153.09	2731-005SR 170.11	2721T-005SR 244.02	2731T-005SR 270.76	2731VT-005SR 333.97	1	12	270
3/4	2721-007SR 173.76	2731-007SR 193.08	2721T-007SR 260.60	2731T-007SR 292.43	2731VT-007SR 361.04	1	8	270
1	2721-010SR 214.15	2731-010SR 235.33	2721T-010SR 375.95	2731T-010SR 389.71	2731VT-010SR 459.92	1	8	270
1-1/4	2721-012SR 320.58	2731-012SR 381.17	2721T-012SR 516.83	2731T-012SR 547.83	2731VT-012SR 619.84	1	4	270
1-1/2	2721-015SR 336.97	2731-015SR 389.95	2721T-015SR 551.76	2731T-015SR 579.36	2731VT-015SR 642.40	1	4	270
2	2721-020SR 398.65	2731-020SR 472.42	2721T-020SR 629.17	2731T-020SR 660.78	2731VT-020SR 805.77	1	0	270



Valves Product

True Union, Spigot, Flanged Diaphragm Valves

PVC - Spigot Ends

Size	EPDM Diaphragm	FKM Diaphragm	EPDM Backed PTFE Diaphragm	FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2727-005 149.24	2737-005 165.81	2797T-005 235.62	2797VT-005 272.72	1	12	270
3/4	2727-007 168.16	2737-007 186.09	2797T-007 251.42	2797VT-007 299.42	1	8	270
1	2727-010 208.71	2737-010 227.29	2797T-010 367.03	2797VT-010 427.29	1	8	270
1-1/4	2727-012 310.31	2737-012 373.78	2797T-012 504.82	2797VT-012 560.88	1	4	270
1-1/2	2727-015 328.56	2737-015 380.20	2797T-015 538.04	2797VT-015 614.55	1	4	270
2	2727-020 386.27	2737-020 456.12	2797T-020 610.28	2797VT-020 751.23	1	0	270

PVC - Flanged Ends

Size	EPDM Diaphragm	FKM Diaphragm	EPDM Backed PTFE Diaphragm	FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2723-005 244.45	2733-005 264.63	2793T-005 333.97	2793VT-005 366.59	4	0	270
3/4	2723-007 274.69	2733-007 281.64	2793T-007 361.04	2793VT-007 407.31	4	0	270
1	2723-010 309.04	2733-010 345.62	2793T-010 459.92	2793VT-010 515.80	4	0	270
1-1/4	2723-012 419.78	2733-012 464.72	2793T-012 619.84	2793VT-012 684.22	1	4	270
1-1/2	2723-015 424.81	2733-015 474.27	2793T-015 642.40	2793VT-015 713.84	1	4	270
2	2723-020 504.96	2733-020 540.19	2793T-020 720.46	2793VT-020 823.66	1	0	270
2-1/2	2723-025 705.33	2733-025 806.22	2793T-025 1114.07	2793VT-025 1276.03	1	0	271
3	2723-030 943.03	2733-030 1047.91	2793T-030 1460.91	2793VT-030 1616.48	1	0	271
4	2723-040 1306.32	2733-040 1424.51	2793T-040 2024.51	2793VT-040 2249.38	1	0	271
6	2723-060 3155.92	2733-060 3694.98	2793T-060 5242.56	2793VT-060 5761.12	1	0	271
8	2723-080 6310.03	2733-080 6649.19	2793T-080 7780.68	2793VT-080 8741.21	1	0	271

CPVC - Socket Ends (True Union Style Uses End Connector O-ring Seals)

Size	EPDM Seals & Diaphragm	FKM Seals & Diaphragm	EPDM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2729-005C 271.04	2739-005C 347.38	2729T-005C 389.62	2739T-005C 419.44	2739VT-005C 463.93	1	12	272
3/4	2729-007C 301.66	2739-007C 370.36	2729T-007C 430.31	2739T-007C 449.78	2739VT-007C 497.48	1	8	272
1	2729-010C 348.17	2739-010C 450.35	2729T-010C 523.17	2739T-010C 545.74	2739VT-010C 599.37	1	8	272
1-1/4	2729-012C 522.95	2739-012C 622.22	2729T-012C 721.99	2739T-012C 747.53	2739VT-012C 813.14	1	4	272
1-1/2	2729-015C 538.43	2739-015C 629.87	2729T-015C 733.21	2739T-015C 775.58	2739VT-015C 838.09	1	4	272
2	2729-020C 573.49	2739-020C 718.87	2729T-020C 806.27	2739T-020C 893.45	2739VT-020C 988.21	1	0	272



CPVC - SR Threaded Ends (True Union Style Uses End Connector O-ring Seals)

Size	EPDM Seals & Diaphragm	FKM Seals & Diaphragm	EPDM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2721-005CSR 271.04	2731-005CSR 347.38	2721T-005CSR 389.62	2731T-005CSR 419.44	2731VT-005CSR 463.93	1	12	272
3/4	2721-007CSR 301.66	2731-007CSR 370.36	2721T-007CSR 430.31	2731T-007CSR 449.78	2731VT-007CSR 497.48	1	8	272
1	2721-010CSR 348.17	2731-010CSR 450.35	2721T-010CSR 523.17	2731T-010CSR 545.74	2731VT-010CSR 599.37	1	8	272
1-1/4	2721-012CSR 522.95	2731-012CSR 622.22	2721T-012CSR 721.99	2731T-012CSR 747.53	2731VT-012CSR 813.14	1	4	272
1-1/2	2721-015CSR 538.43	2731-015CSR 629.87	2721T-015CSR 733.21	2731T-015CSR 775.58	2731VT-015CSR 838.09	1	4	272
2	2721-020CSR 573.49	2731-020CSR 718.87	2721T-020CSR 806.27	2731T-020CSR 893.45	2731VT-020CSR 988.21	1	0	272

CPVC - Spigot Ends

Size	EPDM Diaphragm	FKM Diaphragm	EPDM Backed PTFE Diaphragm	FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2727-005C 264.22	2737-005C 336.45	2797T-005C 378.64	2797VT-005C 422.96	1	12	272
3/4	2727-007C 293.31	2737-007C 358.87	2797T-007C 417.29	2797VT-007C 461.63	1	8	272
1	2727-010C 340.71	2737-010C 437.75	2797T-010C 509.92	2797VT-010C 561.96	1	8	272
1-1/4	2727-012C 509.74	2737-012C 605.17	2797T-012C 702.62	2797VT-012C 778.46	1	4	272
1-1/2	2727-015C 521.08	2737-015C 611.48	2797T-015C 714.76	2797VT-015C 790.99	1	4	272
2	2727-020C 559.03	2737-020C 700.42	2797T-020C 785.76	2797VT-020C 868.55	1	0	272

CPVC - Flanged Ends

Size	EPDM Diaphragm	FKM Diaphragm	EPDM Backed PTFE Diaphragm	FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2723-005C 327.73	2733-005C 361.92	2793T-005C 472.41	2793VT-005C 523.96	4	0	272
3/4	2723-007C 366.44	2733-007C 404.73	2793T-007C 505.07	2793VT-007C 558.72	4	0	272
1	2723-010C 451.21	2733-010C 504.59	2793T-010C 620.65	2793VT-010C 688.41	4	0	272
1-1/4	2723-012C 576.48	2733-012C 660.43	2793T-012C 783.44	2793VT-012C 866.03	1	4	272
1-1/2	2723-015C 584.15	2733-015C 676.68	2793T-015C 935.84	2793VT-015C 1030.83	1	4	272
2	2723-020C 654.22	2733-020C 733.71	2793T-020C 1039.84	2793VT-020C 1154.85	1	0	272
2-1/2	2723-025C 1188.43	2733-025C 1327.24	2793T-025C 2052.29	2793VT-025C 2427.20	1	0	273
3	2723-030C 1793.66	2733-030C 1992.94	2793T-030C 2699.80	2793VT-030C 2985.71	1	0	273
4	2723-040C 2463.22	2733-040C 2736.35	2793T-040C 3588.66	2793VT-040C 3828.77	1	0	273
6	2723-060C 4508.94	2733-060C 6465.32	2793T-060C 7891.52	2793VT-060C 10283.12	1	0	273
8	2723-080C 9012.54	2733-080C 11638.28	2793T-080C 11768.60	2793VT-080C 13075.20	1	0	273



Valves Product

True Union, Spigot, Flanged Diaphragm Valves

PP Diaphragm Valve - SR Threaded Ends (True Union Style Uses End Connector O-ring Seals)

Size	EPDM Seals & Diaphragm	FKM Seals & Diaphragm	EPDM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & EPDM Backed PTFE Diaphragm	FKM Seals & FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
1/2	2721-005PSR 157.25	2731-005PSR 174.94	2721T-005PSR 251.38	2731T-005PSR 264.62	2731VT-005PSR 299.27	1	12	280
3/4	2721-007PSR 179.09	2731-007PSR 198.69	2721T-007PSR 263.19	2731T-007PSR 279.25	2731VT-007PSR 327.84	1	8	280
1	2721-010PSR 221.54	2731-010PSR 244.08	2721T-010PSR 383.66	2731T-010PSR 403.62	2731VT-010PSR 425.87	1	8	280
1-1/4	2721-012PSR 336.45	2731-012PSR 374.66	2721T-012PSR 525.29	2731T-012PSR 550.74	2731VT-012PSR 611.18	1	4	280
1-1/2	2721-015PSR 351.94	2731-015PSR 390.68	2721T-015PSR 560.19	2731T-015PSR 587.38	2731VT-015PSR 632.62	1	4	280
2	2721-020PSR 409.32	2731-020PSR 454.88	2721T-020PSR 639.13	2731T-020PSR 670.59	2731VT-020PSR 728.81	1	0	280

PP Diaphragm Valve - Flanged Ends

Size	EPDM Diaphragm	FKM Diaphragm	EPDM Backed PTFE Diaphragm	FKM Backed PTFE Diaphragm	Std Pk	Mstr Pk	Prod Code
2-1/2	2723-025P 754.07	2733-025P 833.31	2793T-025P 1186.44	2793VT-025P 1324.99	1	0	281
3	2723-030P 1078.22	2733-030P 1191.29	2793T-030P 1640.78	2793VT-030P 1829.60	1	0	281
4	2723-040P 1551.44	2733-040P 1708.07	2793T-040P 2187.19	2793VT-040P 2425.93	1	0	281
6	2723-060P 3839.57	2733-060P 4266.18	2793T-060P 5481.80	2793VT-060P 6196.22	1	0	281
8	2723-080P 7413.16	2733-080P 8605.56	2793T-080P 9951.09	2793VT-080P 16768.43	1	0	281

Tee-Style "Zero Dead-Leg" Diaphragm Valves



Valves are produced to order in Diaphragm Valve sizes 1/2" - 2" and virtually any user specified Mainline Socket Tee size available. Tee-Style Valve material options include PVC, CPVC, or Low Extractable PVC.

Valve End Connection options include Spigot, Socket & Thread, or patented Special Reinforced (SR) Female Plastic Thread.

Diaphragm Options include EPDM, FKM, PTFE with bonded EPDM backing, or PTFE with bonded FKM backing.

Pressure Rating @ 73°F (23°C), Water
Valve Sizes 1/2" - 2" (20mm - 63mm)
235 psi with Elastomer Diaphragms
150 psi with PTFE Diaphragms

Maximum Service Temperature
PVC = 140°F (60°C)
CPVC = 200°F (93°C)
Temperature/Pressure De-ratings Apply

CONTACT SPEARS® FOR SELECTION ASSISTANCE & MSRP

Quick View Selection Chart

The following Base Part Numbers must be completed according to desired configuration size. Contact Spears® for the appropriate Tee size x Valve size code designations to replace the "xxx" in each.

Diaphragm Material	PVC Base Part Number			Pressure Rating @ 73°F (23°C)
	Spigot	Socket & Threaded	SR Threaded	
EPDM	2727ZD-xxx	2729ZD-xxx	2721ZD-xxxSR	1/2" - 2" 235 psi
FKM	2737ZD-xxx	2739ZD-xxx	2731ZD-xxxSR	
PTFE, EPDM Backing	2797TZD-xxx	2729TZD-xxx	2721TZD-xxxSR	1/2" - 2" 150 psi
PTFE FKM Backing	2797VTZD-xxx	2739VTZD-xxx	2731VTZD-xxxSR	

Diaphragm Material	CPVC Base Part Number			Pressure Rating @ 73°F (23°C)
	Spigot	Socket & Threaded	SR Threaded	
EPDM	2727ZD-xxxC	2729ZD-xxxC	2721ZD-xxxCSR	1/2" - 2" 235 psi
FKM	2737ZD-xxxC	2739ZD-xxxC	2731ZD-xxxCSR	
PTFE, EPDM Backing	2797TZD-xxxC	2729TZD-xxxC	2721TZD-xxxCSR	1/2" - 2" 150 psi
PTFE FKM Backing	2797VTZD-xxxC	2739VTZD-xxxC	2731VTZD-xxxCSR	

Diaphragm Material	Low Extractable PVC Base Part Number			Pressure Rating @ 73°F (23°C)
	Spigot	Socket & Threaded	SR Threaded	
EPDM	2727ZD-xxxBL	2729ZD-xxxBL	2721ZD-xxxSRBL	1/2" - 2" 235 psi
FKM	2737ZD-xxxBL	2739ZD-xxxBL	2731ZD-xxxSRBL	
PTFE, EPDM Backing	2797TZD-xxxBL	2729TZD-xxxBL	2721TZD-xxxSRBL	1/2" - 2" 150 psi
PTFE FKM Backing	2797VTZD-xxxBL	2739VTZD-xxxBL	2731VTZD-xxxSRBL	

Note: Low Extractable PVC Valves are typically used with elastomer backed PTFE Diaphragms to maintain purity in most applications. Tee-Style Zero Dead-Leg Diaphragm Valves are a non-stock configuration. All orders are non-cancelable, non-returnable.



Diaphragm Valve Repair Kits

Diaphragm Valve Repair Kits

True Union Style Diaphragm Valve Repair Kits

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
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O-rings & Elastomer Diaphragm

1/2	DV-ERK-005 53.41	DV-VRK-005 116.79	1	10	299
3/4	DV-ERK-007 60.64	DV-VRK-007 126.58	1	10	299
1	DV-ERK-010 75.85	DV-VRK-010 140.55	1	10	299
1-1/4 OR 1-1/2	DV-ERK-015 104.65	DV-VRK-015 237.60	1	10	299
2	DV-ERK-020 124.56	DV-VRK-020 282.72	1	10	299

O-rings & EPDM Backed PTFE Diaphragm

1/2	DV-TERK-005 142.15	DV-TVVRK-005 148.21	1	10	299
3/4	DV-TERK-007 158.66	DV-TVVRK-007 164.65	1	10	299
1	DV-TERK-010 191.43	DV-TVVRK-010 193.74	1	10	299
1-1/4 OR 1-1/2	DV-TERK-015 262.25	DV-TVVRK-015 265.41	1	10	299
2	DV-TERK-020 305.85	DV-TVVRK-020 314.52	1	10	299

O-rings & FKM Backed PTFE Diaphragm

1/2	DV-VTERK-005 163.67	DV-VTVRK-005 182.81	1	10	299
3/4	DV-VTERK-007 171.57	DV-VTVRK-007 193.76	1	10	299
1	DV-VTERK-010 210.97	DV-VTVRK-010 234.56	1	10	299
1-1/4 OR 1-1/2	DV-VTERK-015 368.31	DV-VTVRK-015 381.51	1	5	299
2	DV-VTERK-020 374.48	DV-VTVRK-020 541.07	1	5	299

True Union Diaphragm Repair Kits include:

1-Diaphragm

2-End Connector O-rings

Contact Spears® for MSRP on Additional Specialty Diaphragms

- Hypalon®
- Hypalon® backed PTFE
- PTFE Encapsulated O-rings (for True Union Style Valves)

Diaphragm Only - Elastomer

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
1/2	27-39-00541A 42.62	27-39-00542A 86.96	1	0	299
3/4	27-39-00741A 56.73	27-39-00742A 113.14	1	0	299
1	27-39-01041A 61.51	27-39-01042A 143.16	1	0	299
1-1/4 OR 1-1/2	27-39-01541 67.22	27-39-01542 186.44	1	0	299
2	27-39-02041 99.80	27-39-02042 202.11	1	0	299
3	27-39-03041 100.97	27-39-03042 585.17	1	0	299
4	27-39-04041 234.81	27-39-04042 997.45	1	0	299
6	27-39-06041 356.35	27-39-06042 3149.87	1	0	299
8	27-39-08041 825.13	27-39-08042 5696.57	1	0	299

Diaphragm Only - PTFE with Elastomer Backing

Size	PTFE/EPDM	PTFE/FKM	Std Pk	Mstr Pk	Prod Code
1/2	27-39-00565A 116.05	27-39-00566A 142.29	100	0	299
3/4	27-39-00765A 138.11	27-39-00766A 148.28	25	0	299
1	27-39-01065A 157.49	27-39-01066A 183.13	25	0	299
1-1/4 OR 1-1/2	27-39-01565 229.07	27-39-01566 373.01	100	0	299
2	27-39-02065 266.79	27-39-02066 420.25	100	0	299
3	27-39-03065 732.00	27-39-03066 907.86	15	0	299
4	27-39-04065 1421.77	27-39-04066 1561.28	10	0	299
6	27-39-06065 3141.92	27-39-06066 3493.49	1	5	299
8	27-39-08065 5696.12	27-39-08066 6274.37	1	0	299