



Diaphragm Valves



PRODUCT

Contact Spears® for any Information not found.

Valves Product
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 & 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)



Spigot Style



PP Thread Style

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)

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	2729-005 145.44	2739-005 161.60	2729T-005 231.82	2739T-005 257.22	2739VT-005 317.27	1	12	270
3/4	2729-007 165.07	2739-007 183.43	2729T-007 247.57	2739T-007 277.81	2739VT-007 342.99	1	8	270
1	2729-010 203.44	2739-010 223.56	2729T-010 357.15	2739T-010 370.22	2739VT-010 436.92	1	8	270
1-1/4	2729-012 304.55	2739-012 362.11	2729T-012 490.99	2739T-012 520.44	2739VT-012 588.85	1	4	270
1-1/2	2729-015 320.12	2739-015 370.45	2729T-015 524.17	2739T-015 550.39	2739VT-015 610.28	1	4	270
2	2729-020 378.72	2739-020 448.80	2729T-020 597.71	2739T-020 627.74	2739VT-020 765.48	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 145.44	2731-005SR 161.60	2721T-005SR 231.82	2731T-005SR 257.22	2731VT-005SR 317.27	1	12	270
3/4	2721-007SR 165.07	2731-007SR 183.43	2721T-007SR 247.57	2731T-007SR 277.81	2731VT-007SR 342.99	1	8	270
1	2721-010SR 203.44	2731-010SR 223.56	2721T-010SR 357.15	2731T-010SR 370.22	2731VT-010SR 436.92	1	8	270
1-1/4	2721-012SR 304.55	2731-012SR 362.11	2721T-012SR 490.99	2731T-012SR 520.44	2731VT-012SR 588.85	1	4	270
1-1/2	2721-015SR 320.12	2731-015SR 370.45	2721T-015SR 524.17	2731T-015SR 550.39	2731VT-015SR 610.28	1	4	270
2	2721-020SR 378.72	2731-020SR 448.80	2721T-020SR 597.71	2731T-020SR 627.74	2731VT-020SR 765.48	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	2727-005 141.78	2737-005 157.52	2797T-005 223.84	2797VT-005 259.08	1	12	270
3/4	2727-007 159.75	2737-007 176.79	2797T-007 238.85	2797VT-007 284.45	1	8	270
1	2727-010 198.27	2737-010 215.93	2797T-010 348.68	2797VT-010 405.93	1	8	270
1-1/4	2727-012 294.79	2737-012 355.09	2797T-012 479.58	2797VT-012 532.84	1	4	270
1-1/2	2727-015 312.13	2737-015 361.19	2797T-015 511.14	2797VT-015 583.82	1	4	270
2	2727-020 366.96	2737-020 433.31	2797T-020 579.77	2797VT-020 713.67	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	2723-005 232.23	2733-005 251.40	2793T-005 317.27	2793VT-005 348.26	4	0	270
3/4	2723-007 260.96	2733-007 267.56	2793T-007 342.99	2793VT-007 386.94	4	0	270
1	2723-010 293.59	2733-010 328.34	2793T-010 436.92	2793VT-010 490.01	4	0	270
1-1/4	2723-012 398.79	2733-012 441.48	2793T-012 588.85	2793VT-012 650.01	1	4	270
1-1/2	2723-015 403.57	2733-015 450.56	2793T-015 610.28	2793VT-015 678.15	1	4	270
2	2723-020 479.71	2733-020 513.18	2793T-020 684.44	2793VT-020 782.48	1	0	270
2-1/2	2723-025 670.06	2733-025 765.91	2793T-025 1058.37	2793VT-025 1212.23	1	0	271
3	2723-030 895.88	2733-030 995.51	2793T-030 1387.86	2793VT-030 1535.66	1	0	271
4	2723-040 1241.00	2733-040 1353.28	2793T-040 1923.28	2793VT-040 2136.91	1	0	271
6	2723-060 2998.12	2733-060 3510.23	2793T-060 4980.43	2793VT-060 5473.06	1	0	271
8	2723-080 5994.53	2733-080 6316.73	2793T-080 7391.65	2793VT-080 8304.15	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 257.49	2739-005C 330.01	2729T-005C 370.14	2739T-005C 398.47	2739VT-005C 440.73	1	12	272
3/4	2729-007C 286.58	2739-007C 351.84	2729T-007C 408.79	2739T-007C 427.29	2739VT-007C 472.61	1	8	272
1	2729-010C 330.76	2739-010C 427.83	2729T-010C 497.01	2739T-010C 518.45	2739VT-010C 569.40	1	8	272
1-1/4	2729-012C 496.80	2739-012C 591.11	2729T-012C 685.89	2739T-012C 710.15	2739VT-012C 772.48	1	4	272
1-1/2	2729-015C 511.51	2739-015C 598.38	2729T-015C 696.55	2739T-015C 736.80	2739VT-015C 796.19	1	4	272
2	2729-020C 544.82	2739-020C 682.93	2729T-020C 765.96	2739T-020C 848.78	2739VT-020C 938.80	1	0	272

Valves Product
True Union, Spigot, Flanged Diaphragm Valves



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 257.49	2731-005CSR 330.01	2721T-005CSR 370.14	2731T-005CSR 398.47	2731VT-005CSR 440.73	1	12	272
3/4	2721-007CSR 286.58	2731-007CSR 351.84	2721T-007CSR 408.79	2731T-007CSR 427.29	2731VT-007CSR 472.61	1	8	272
1	2721-010CSR 330.76	2731-010CSR 427.83	2721T-010CSR 497.01	2731T-010CSR 518.45	2731VT-010CSR 569.40	1	8	272
1-1/4	2721-012CSR 496.80	2731-012CSR 591.11	2721T-012CSR 685.89	2731T-012CSR 710.15	2731VT-012CSR 772.48	1	4	272
1-1/2	2721-015CSR 511.51	2731-015CSR 598.38	2721T-015CSR 696.55	2731T-015CSR 736.80	2731VT-015CSR 796.19	1	4	272
2	2721-020CSR 544.82	2731-020CSR 682.93	2721T-020CSR 765.96	2731T-020CSR 848.78	2731VT-020CSR 938.80	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 251.01	2737-005C 319.63	2797T-005C 359.71	2797VT-005C 401.81	1	12	272
3/4	2727-007C 278.64	2737-007C 340.93	2797T-007C 396.43	2797VT-007C 438.55	1	8	272
1	2727-010C 323.67	2737-010C 415.86	2797T-010C 484.42	2797VT-010C 533.86	1	8	272
1-1/4	2727-012C 484.25	2737-012C 574.91	2797T-012C 667.49	2797VT-012C 739.54	1	4	272
1-1/2	2727-015C 495.03	2737-015C 580.91	2797T-015C 679.02	2797VT-015C 751.44	1	4	272
2	2727-020C 531.08	2737-020C 665.40	2797T-020C 746.47	2797VT-020C 825.12	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 311.34	2733-005C 343.82	2793T-005C 448.79	2793VT-005C 497.76	4	0	272
3/4	2723-007C 348.12	2733-007C 384.49	2793T-007C 479.82	2793VT-007C 530.78	4	0	272
1	2723-010C 428.65	2733-010C 479.36	2793T-010C 589.62	2793VT-010C 653.99	4	0	272
1-1/4	2723-012C 547.66	2733-012C 627.41	2793T-012C 744.27	2793VT-012C 822.73	1	4	272
1-1/2	2723-015C 554.94	2733-015C 642.85	2793T-015C 889.05	2793VT-015C 979.29	1	4	272
2	2723-020C 621.51	2733-020C 697.02	2793T-020C 987.85	2793VT-020C 1097.11	1	0	272
2-1/2	2723-025C 1129.01	2733-025C 1260.88	2793T-025C 1949.68	2793VT-025C 2305.84	1	0	273
3	2723-030C 1703.98	2733-030C 1893.29	2793T-030C 2564.81	2793VT-030C 2836.42	1	0	273
4	2723-040C 2340.06	2733-040C 2599.53	2793T-040C 3409.23	2793VT-040C 3637.33	1	0	273
6	2723-060C 4283.49	2733-060C 6142.05	2793T-060C 7496.94	2793VT-060C 9768.96	1	0	273
8	2723-080C 8561.91	2733-080C 11056.37	2793T-080C 11180.17	2793VT-080C 12421.44	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 149.39	2731-005PSR 166.19	2721T-005PSR 238.81	2731T-005PSR 251.39	2731VT-005PSR 284.31	1	12	280
3/4	2721-007PSR 170.14	2731-007PSR 188.76	2721T-007PSR 250.03	2731T-007PSR 265.29	2731VT-007PSR 311.45	1	8	280
1	2721-010PSR 210.46	2731-010PSR 231.88	2721T-010PSR 364.48	2731T-010PSR 383.44	2731VT-010PSR 404.58	1	8	280
1-1/4	2721-012PSR 319.63	2731-012PSR 355.93	2721T-012PSR 499.03	2731T-012PSR 523.20	2731VT-012PSR 580.62	1	4	280
1-1/2	2721-015PSR 334.34	2731-015PSR 371.15	2721T-015PSR 532.18	2731T-015PSR 558.01	2731VT-015PSR 600.99	1	4	280
2	2721-020PSR 388.85	2731-020PSR 432.14	2721T-020PSR 607.17	2731T-020PSR 637.06	2731VT-020PSR 692.37	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 716.37	2733-025P 791.64	2793T-025P 1127.12	2793VT-025P 1258.74	1	0	281
3	2723-030P 1024.31	2733-030P 1131.73	2793T-030P 1558.74	2793VT-030P 1738.12	1	0	281
4	2723-040P 1473.87	2733-040P 1622.67	2793T-040P 2077.83	2793VT-040P 2304.63	1	0	281
6	2723-060P 3647.59	2733-060P 4052.87	2793T-060P 5207.71	2793VT-060P 5886.41	1	0	281
8	2723-080P 7042.50	2733-080P 8175.28	2793T-080P 9453.54	2793VT-080P 15930.01	1	0	281

Valves Product
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 50.74	DV-VRK-005 110.95	1	10	299
3/4	DV-ERK-007 57.61	DV-VRK-007 120.25	1	10	299
1	DV-ERK-010 72.06	DV-VRK-010 133.52	1	10	299
1-1/4 OR 1-1/2	DV-ERK-015 99.42	DV-VRK-015 225.72	1	10	299
2	DV-ERK-020 118.33	DV-VRK-020 268.58	1	10	299

O-rings & EPDM Backed PTFE Diaphragm

1/2	DV-TERK-005 135.04	DV-TVRK-005 140.80	1	10	299
3/4	DV-TERK-007 150.73	DV-TVRK-007 156.42	1	10	299
1	DV-TERK-010 181.86	DV-TVRK-010 184.05	1	10	299
1-1/4 OR 1-1/2	DV-TERK-015 249.14	DV-TVRK-015 252.14	1	10	299
2	DV-TERK-020 290.56	DV-TVRK-020 298.79	1	10	299

O-rings & FKM Backed PTFE Diaphragm

1/2	DV-VTERK-005 155.49	DV-VTVRK-005 173.67	1	10	299
3/4	DV-VTERK-007 162.99	DV-VTVRK-007 184.07	1	10	299
1	DV-VTERK-010 200.42	DV-VTVRK-010 222.83	1	10	299
1-1/4 OR 1-1/2	DV-VTERK-015 349.89	DV-VTVRK-015 362.43	1	5	299
2	DV-VTERK-020 355.76	DV-VTVRK-020 514.02	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 40.49	27-39-00542A 86.96	1	0	299
3/4	27-39-00741A 53.89	27-39-00742A 107.48	1	0	299
1	27-39-01041A 58.43	27-39-01042A 136.00	1	0	299
1-1/4 OR 1-1/2	27-39-01541 63.86	27-39-01542 177.12	1	0	299
2	27-39-02041 94.81	27-39-02042 192.00	1	0	299
3	27-39-03041 95.92	27-39-03042 555.91	1	0	299
4	27-39-04041 223.07	27-39-04042 947.58	1	0	299
6	27-39-06041 338.53	27-39-06042 2992.38	1	0	299
8	27-39-08041 783.87	27-39-08042 5411.74	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 110.25	27-39-00566A 135.18	100	0	299
3/4	27-39-00765A 131.20	27-39-00766A 140.87	25	0	299
1	27-39-01065A 149.62	27-39-01066A 173.97	25	0	299
1-1/4 OR 1-1/2	27-39-01565 217.62	27-39-01566 354.36	100	0	299
2	27-39-02065 253.45	27-39-02066 399.24	100	0	299
3	27-39-03065 695.40	27-39-03066 862.47	15	0	299
4	27-39-04065 1350.68	27-39-04066 1483.22	10	0	299
6	27-39-06065 2984.82	27-39-06066 3318.82	1	5	299
8	27-39-08065 5411.31	27-39-08066 5960.65	1	0	299