



Diaphragm Valves



PRODUCT

Contact Spears® for any Information not found.



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	2729-005 161.15	2739-005 179.06	2729T-005 256.86	2739T-005 285.01	2739VT-005 351.55	1	12	270
3/4	2729-007 182.91	2739-007 203.24	2729T-007 274.32	2739T-007 307.82	2739VT-007 380.04	1	8	270
1	2729-010 225.42	2739-010 247.72	2729T-010 395.74	2739T-010 410.22	2739VT-010 484.13	1	8	270
1-1/4	2729-012 337.45	2739-012 401.23	2729T-012 544.03	2739T-012 576.66	2739VT-012 652.46	1	4	270
1-1/2	2729-015 354.71	2739-015 410.47	2729T-015 580.80	2739T-015 609.85	2739VT-015 676.21	1	4	270
2	2729-020 419.63	2739-020 497.28	2729T-020 662.28	2739T-020 695.56	2739VT-020 848.18	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 161.15	2731-005SR 179.06	2721T-005SR 256.86	2731T-005SR 285.01	2731VT-005SR 351.55	1	12	270
3/4	2721-007SR 182.91	2731-007SR 203.24	2721T-007SR 274.32	2731T-007SR 307.82	2731VT-007SR 380.04	1	8	270
1	2721-010SR 225.42	2731-010SR 247.72	2721T-010SR 395.74	2731T-010SR 410.22	2731VT-010SR 484.13	1	8	270
1-1/4	2721-012SR 337.45	2731-012SR 401.23	2721T-012SR 544.03	2731T-012SR 576.66	2731VT-012SR 652.46	1	4	270
1-1/2	2721-015SR 354.71	2731-015SR 410.47	2721T-015SR 580.80	2731T-015SR 609.85	2731VT-015SR 676.21	1	4	270
2	2721-020SR 419.63	2731-020SR 497.28	2721T-020SR 662.28	2731T-020SR 695.56	2731VT-020SR 848.18	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	2727-005 157.09	2737-005 174.54	2797T-005 248.02	2797VT-005 287.07	1	12	270
3/4	2727-007 177.01	2737-007 195.88	2797T-007 264.65	2797VT-007 315.18	1	8	270
1	2727-010 219.69	2737-010 239.25	2797T-010 386.35	2797VT-010 449.78	1	8	270
1-1/4	2727-012 326.64	2737-012 393.45	2797T-012 531.39	2797VT-012 590.40	1	4	270
1-1/2	2727-015 345.85	2737-015 400.21	2797T-015 566.36	2797VT-015 646.89	1	4	270
2	2727-020 406.60	2737-020 480.13	2797T-020 642.40	2797VT-020 790.77	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	2723-005 257.32	2733-005 278.56	2793T-005 351.55	2793VT-005 385.88	4	0	270
3/4	2723-007 289.15	2733-007 296.46	2793T-007 380.04	2793VT-007 428.75	4	0	270
1	2723-010 325.31	2733-010 363.81	2793T-010 484.13	2793VT-010 542.95	4	0	270
1-1/4	2723-012 441.87	2733-012 489.18	2793T-012 652.46	2793VT-012 720.23	1	4	270
1-1/2	2723-015 447.17	2733-015 499.23	2793T-015 676.21	2793VT-015 751.41	1	4	270
2	2723-020 531.54	2733-020 568.62	2793T-020 758.38	2793VT-020 867.01	1	0	270
2-1/2	2723-025 742.45	2733-025 848.65	2793T-025 1172.71	2793VT-025 1343.19	1	0	271
3	2723-030 992.66	2733-030 1103.06	2793T-030 1537.80	2793VT-030 1701.56	1	0	271
4	2723-040 1375.07	2733-040 1499.48	2793T-040 2131.06	2793VT-040 2367.77	1	0	271
6	2723-060 3322.02	2733-060 3889.45	2793T-060 5518.48	2793VT-060 6064.34	1	0	271
8	2723-080 6642.14	2733-080 6999.15	2793T-080 8190.19	2793VT-080 9201.27	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 285.31	2739-005C 365.66	2729T-005C 410.13	2739T-005C 441.52	2739VT-005C 488.35	1	12	272
3/4	2729-007C 317.54	2739-007C 389.85	2729T-007C 452.96	2739T-007C 473.45	2739VT-007C 523.66	1	8	272
1	2729-010C 366.49	2739-010C 474.05	2729T-010C 550.71	2739T-010C 574.46	2739VT-010C 630.92	1	8	272
1-1/4	2729-012C 550.47	2739-012C 654.97	2729T-012C 759.99	2739T-012C 786.87	2739VT-012C 855.94	1	4	272
1-1/2	2729-015C 566.77	2739-015C 663.02	2729T-015C 771.80	2739T-015C 816.40	2739VT-015C 882.20	1	4	272
2	2729-020C 603.67	2739-020C 756.71	2729T-020C 848.71	2739T-020C 940.47	2739VT-020C 1040.22	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 285.31	2731-005CSR 365.66	2721T-005CSR 410.13	2731T-005CSR 441.52	2731VT-005CSR 488.35	1	12	272
3/4	2721-007CSR 317.54	2731-007CSR 389.85	2721T-007CSR 452.96	2731T-007CSR 473.45	2731VT-007CSR 523.66	1	8	272
1	2721-010CSR 366.49	2731-010CSR 474.05	2721T-010CSR 550.71	2731T-010CSR 574.46	2731VT-010CSR 630.92	1	8	272
1-1/4	2721-012CSR 550.47	2731-012CSR 654.97	2721T-012CSR 759.99	2731T-012CSR 786.87	2731VT-012CSR 855.94	1	4	272
1-1/2	2721-015CSR 566.77	2731-015CSR 663.02	2721T-015CSR 771.80	2731T-015CSR 816.40	2731VT-015CSR 882.20	1	4	272
2	2721-020CSR 603.67	2731-020CSR 756.71	2721T-020CSR 848.71	2731T-020CSR 940.47	2731VT-020CSR 1040.22	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 278.13	2737-005C 354.16	2797T-005C 398.57	2797VT-005C 445.22	1	12	272
3/4	2727-007C 308.75	2737-007C 377.76	2797T-007C 439.25	2797VT-007C 485.93	1	8	272
1	2727-010C 358.64	2737-010C 460.79	2797T-010C 536.76	2797VT-010C 591.54	1	8	272
1-1/4	2727-012C 536.57	2737-012C 637.02	2797T-012C 739.60	2797VT-012C 819.43	1	4	272
1-1/2	2727-015C 548.51	2737-015C 643.66	2797T-015C 752.38	2797VT-015C 832.62	1	4	272
2	2727-020C 588.45	2737-020C 737.28	2797T-020C 827.12	2797VT-020C 914.26	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 344.98	2733-005C 380.97	2793T-005C 497.27	2793VT-005C 551.54	4	0	272
3/4	2723-007C 385.73	2733-007C 426.03	2793T-007C 531.65	2793VT-007C 588.13	4	0	272
1	2723-010C 474.96	2733-010C 531.15	2793T-010C 653.32	2793VT-010C 724.64	4	0	272
1-1/4	2723-012C 606.82	2733-012C 695.19	2793T-012C 824.67	2793VT-012C 911.61	1	4	272
1-1/2	2723-015C 614.89	2733-015C 712.29	2793T-015C 985.09	2793VT-015C 1085.08	1	4	272
2	2723-020C 688.65	2733-020C 772.33	2793T-020C 1094.57	2793VT-020C 1215.63	1	0	272
2-1/2	2723-025C 1250.98	2733-025C 1397.09	2793T-025C 2160.31	2793VT-025C 2554.95	1	0	273
3	2723-030C 1888.06	2733-030C 2097.83	2793T-030C 2841.89	2793VT-030C 3142.85	1	0	273
4	2723-040C 2592.86	2733-040C 2880.37	2793T-040C 3777.54	2793VT-040C 4030.28	1	0	273
6	2723-060C 4746.25	2733-060C 6805.60	2793T-060C 8306.86	2793VT-060C 10824.34	1	0	273
8	2723-080C 9486.88	2733-080C 12250.82	2793T-080C 12388.00	2793VT-080C 13763.37	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 165.53	2731-005PSR 184.15	2721T-005PSR 264.61	2731T-005PSR 299.60	2731VT-005PSR 315.02	1	12	280
3/4	2721-007PSR 188.52	2731-007PSR 209.15	2721T-007PSR 277.04	2731T-007PSR 315.00	2731VT-007PSR 345.09	1	8	280
1	2721-010PSR 233.20	2731-010PSR 256.93	2721T-010PSR 403.85	2731T-010PSR 424.86	2731VT-010PSR 448.28	1	8	280
1-1/4	2721-012PSR 354.16	2731-012PSR 409.27	2721T-012PSR 552.94	2731T-012PSR 579.73	2731VT-012PSR 643.35	1	4	280
1-1/2	2721-015PSR 370.46	2731-015PSR 418.89	2721T-015PSR 589.67	2731T-015PSR 618.29	2731VT-015PSR 665.92	1	4	280
2	2721-020PSR 430.86	2731-020PSR 511.69	2721T-020PSR 672.77	2731T-020PSR 705.88	2731VT-020PSR 767.17	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 793.76	2733-025P 877.17	2793T-025P 1248.88	2793VT-025P 1394.73	1	0	281
3	2723-030P 1134.97	2733-030P 1253.99	2793T-030P 1727.14	2793VT-030P 1925.89	1	0	281
4	2723-040P 1633.09	2733-040P 1797.97	2793T-040P 2302.31	2793VT-040P 2553.61	1	0	281
6	2723-060P 4041.65	2733-060P 4490.72	2793T-060P 5770.32	2793VT-060P 6522.34	1	0	281
8	2723-080P 7803.33	2733-080P 9058.48	2793T-080P 10474.83	2793VT-080P 17650.98	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 56.22	DV-VRK-005 122.94	1	10	299
3/4	DV-ERK-007 63.83	DV-VRK-007 133.24	1	10	299
1	DV-ERK-010 79.84	DV-VRK-010 147.95	1	10	299
1-1/4 OR 1-1/2	DV-ERK-015 110.16	DV-VRK-015 250.11	1	10	299
2	DV-ERK-020 131.12	DV-VRK-020 297.60	1	10	299

O-rings & EPDM Backed PTFE Diaphragm

1/2	DV-TERK-005 149.63	DV-TVVRK-005 156.01	1	10	299
3/4	DV-TERK-007 167.01	DV-TVVRK-007 173.32	1	10	299
1	DV-TERK-010 201.51	DV-TVVRK-010 203.94	1	10	299
1-1/4 OR 1-1/2	DV-TERK-015 276.05	DV-TVVRK-015 279.38	1	10	299
2	DV-TERK-020 321.95	DV-TVVRK-020 331.07	1	10	299

O-rings & FKM Backed PTFE Diaphragm

1/2	DV-VTERK-005 172.28	DV-VTVRK-005 192.43	1	10	299
3/4	DV-VTERK-007 180.60	DV-VTVRK-007 203.96	1	10	299
1	DV-VTERK-010 222.07	DV-VTVRK-010 246.91	1	10	299
1-1/4 OR 1-1/2	DV-VTERK-015 387.69	DV-VTVRK-015 401.59	1	5	299
2	DV-VTERK-020 394.19	DV-VTVRK-020 569.55	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 48.93	27-39-00542A ---	1	0	299
3/4	27-39-00741A 57.20	27-39-00742A 81.05	1	0	299
1	27-39-01041A 64.66	27-39-01042A 85.83	1	0	299
1-1/4 OR 1-1/2	27-39-01541 67.37	27-39-01542 151.58	1	0	299
2	27-39-02041 103.16	27-39-02042 228.95	1	0	299
3	27-39-03041 110.48	27-39-03042 383.16	1	0	299
4	27-39-04041 168.00	27-39-04042 508.42	1	0	299
6	27-39-06041 295.93	27-39-06042 667.11	1	0	299
8	27-39-08041 610.53	27-39-08042 1874.74	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 122.16	27-39-00566A 149.78	100	0	299
3/4	27-39-00765A 116.31	27-39-00766A 148.28	25	0	299
1	27-39-01065A 144.25	27-39-01066A 192.77	25	0	299
1-1/4 OR 1-1/2	27-39-01565 241.13	27-39-01566 275.79	100	0	299
2	27-39-02065 280.83	27-39-02066 442.37	100	0	299
3	27-39-03065 361.67	27-39-03066 711.44	15	0	299
4	27-39-04065 612.58	27-39-04066 943.96	10	0	299
6	27-39-06065 1192.72	27-39-06066 2753.32	1	5	299
8	27-39-08065 1701.11	27-39-08066 3963.97	1	0	299