



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, 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	2739-005	2729T-005	2739T-005	2739VT-005	1	12	270
3/4	2729-007	2739-007	2729T-007	2739T-007	2739VT-007	1	8	270
1	2729-010	2739-010	2729T-010	2739T-010	2739VT-010	1	8	270
1-1/4	2729-012	2739-012	2729T-012	2739T-012	2739VT-012	1	4	270
1-1/2	2729-015	2739-015	2729T-015	2739T-015	2739VT-015	1	4	270
2	2729-020	2739-020	2729T-020	2739T-020	2739VT-020	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	2731-005SR	2721T-005SR	2731T-005SR	2731VT-005SR	1	12	270
3/4	2721-007SR	2731-007SR	2721T-007SR	2731T-007SR	2731VT-007SR	1	8	270
1	2721-010SR	2731-010SR	2721T-010SR	2731T-010SR	2731VT-010SR	1	8	270
1-1/4	2721-012SR	2731-012SR	2721T-012SR	2731T-012SR	2731VT-012SR	1	4	270
1-1/2	2721-015SR	2731-015SR	2721T-015SR	2731T-015SR	2731VT-015SR	1	4	270
2	2721-020SR	2731-020SR	2721T-020SR	2731T-020SR	2731VT-020SR	1	0	270

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	2737-005	2797T-005	2797VT-005	1	12	270
3/4	2727-007	2737-007	2797T-007	2797VT-007	1	8	270
1	2727-010	2737-010	2797T-010	2797VT-010	1	8	270
1-1/4	2727-012	2737-012	2797T-012	2797VT-012	1	4	270
1-1/2	2727-015	2737-015	2797T-015	2797VT-015	1	4	270
2	2727-020	2737-020	2797T-020	2797VT-020	1	0	270

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas

JJ DOWNS INDUSTRIAL PLASTICS INC.

416.236.1884
Toronto, ON
JJDOWNS.COM



Valves Product
True Union, Spigot, Flanged Diaphragm Valves

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	2733-005	2793T-005	2793VT-005	4	0	270
3/4	2723-007	2733-007	2793T-007	2793VT-007	4	0	270
1	2723-010	2733-010	2793T-010	2793VT-010	4	0	270
1-1/4	2723-012	2733-012	2793T-012	2793VT-012	1	4	270
1-1/2	2723-015	2733-015	2793T-015	2793VT-015	1	4	270
2	2723-020	2733-020	2793T-020	2793VT-020	1	0	270
2-1/2	2723-025	2733-025	2793T-025	2793VT-025	1	0	271
3	2723-030	2733-030	2793T-030	2793VT-030	1	0	271
4	2723-040	2733-040	2793T-040	2793VT-040	1	0	271
6	2723-060	2733-060	2793T-060	2793VT-060	1	0	271
8	2723-080	2733-080	2793T-080	2793VT-080	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	2739-005C	2729T-005C	2739T-005C	2739VT-005C	1	12	272
3/4	2729-007C	2739-007C	2729T-007C	2739T-007C	2739VT-007C	1	8	272
1	2729-010C	2739-010C	2729T-010C	2739T-010C	2739VT-010C	1	8	272
1-1/4	2729-012C	2739-012C	2729T-012C	2739T-012C	2739VT-012C	1	4	272
1-1/2	2729-015C	2739-015C	2729T-015C	2739T-015C	2739VT-015C	1	4	272
2	2729-020C	2739-020C	2729T-020C	2739T-020C	2739VT-020C	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	2731-005CSR	2721T-005CSR	2731T-005CSR	2731VT-005CSR	1	12	272
3/4	2721-007CSR	2731-007CSR	2721T-007CSR	2731T-007CSR	2731VT-007CSR	1	8	272
1	2721-010CSR	2731-010CSR	2721T-010CSR	2731T-010CSR	2731VT-010CSR	1	8	272
1-1/4	2721-012CSR	2731-012CSR	2721T-012CSR	2731T-012CSR	2731VT-012CSR	1	4	272
1-1/2	2721-015CSR	2731-015CSR	2721T-015CSR	2731T-015CSR	2731VT-015CSR	1	4	272
2	2721-020CSR	2731-020CSR	2721T-020CSR	2731T-020CSR	2731VT-020CSR	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	2737-005C	2797T-005C	2797VT-005C	1	12	272
3/4	2727-007C	2737-007C	2797T-007C	2797VT-007C	1	8	272
1	2727-010C	2737-010C	2797T-010C	2797VT-010C	1	8	272
1-1/4	2727-012C	2737-012C	2797T-012C	2797VT-012C	1	4	272
1-1/2	2727-015C	2737-015C	2797T-015C	2797VT-015C	1	4	272
2	2727-020C	2737-020C	2797T-020C	2797VT-020C	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	2733-005C	2793T-005C	2793VT-005C	4	0	272
3/4	2723-007C	2733-007C	2793T-007C	2793VT-007C	4	0	272
1	2723-010C	2733-010C	2793T-010C	2793VT-010C	4	0	272
1-1/4	2723-012C	2733-012C	2793T-012C	2793VT-012C	1	4	272
1-1/2	2723-015C	2733-015C	2793T-015C	2793VT-015C	1	4	272
2	2723-020C	2733-020C	2793T-020C	2793VT-020C	1	0	272
2-1/2	2723-025C	2733-025C	2793T-025C	2793VT-025C	1	0	273
3	2723-030C	2733-030C	2793T-030C	2793VT-030C	1	0	273
4	2723-040C	2733-040C	2793T-040C	2793VT-040C	1	0	273
6	2723-060C	2733-060C	2793T-060C	2793VT-060C	1	0	273
8	2723-080C	2733-080C	2793T-080C	2793VT-080C	1	0	273

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas

JJ DOWNS INDUSTRIAL PLASTICS INC.

416.236.1884
Toronto, ON
JJDOWNS.COM



Valves Product
True Union, Spigot, Flanged Diaphragm Valves & Tee-Style Zerò Dead-Leg 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	2731-005PSR	2721T-005PSR	2731T-005PSR	2731VT-005PSR	1	12	280
3/4	2721-007PSR	2731-007PSR	2721T-007PSR	2731T-007PSR	2731VT-007PSR	1	8	280
1	2721-010PSR	2731-010PSR	2721T-010PSR	2731T-010PSR	2731VT-010PSR	1	8	280
1-1/4	2721-012PSR	2731-012PSR	2721T-012PSR	2731T-012PSR	2731VT-012PSR	1	4	280
1-1/2	2721-015PSR	2731-015PSR	2721T-015PSR	2731T-015PSR	2731VT-015PSR	1	4	280
2	2721-020PSR	2731-020PSR	2721T-020PSR	2731T-020PSR	2731VT-020PSR	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	2733-025P	2793T-025P	2793VT-025P	1	0	281
3	2723-030P	2733-030P	2793T-030P	2793VT-030P	1	0	281
4	2723-040P	2733-040P	2793T-040P	2793VT-040P	1	0	281
6	2723-060P	2733-060P	2793T-060P	2793VT-060P	1	0	281
8	2723-080P	2733-080P	2793T-080P	2793VT-080P	1	0	281



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.

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas

JJ DOWNS INDUSTRIAL PLASTICS INC.

416.236.1884 Toronto, ON JJDOWN.COM



Valves Product
Diaphragm Valve Repair Kits

Diaphragm Valve Repair Kits

True Union Style Diaphragm Valve Repair Kits

Size	EPDM	FKM	Std Pk	Mstr Pk	Prod Code
O-rings & Elastomer Diaphragm					
1/2	DV-ERK-005	DV-VRK-005	1	10	299
3/4	DV-ERK-007	DV-VRK-007	1	10	299
1	DV-ERK-010	DV-VRK-010	1	10	299
1-1/4 OR 1-1/2	DV-ERK-015	DV-VRK-015	1	10	299
2	DV-ERK-020	DV-VRK-020	1	10	299
O-rings & EPDM Backed PTFE Diaphragm					
1/2	DV-TERK-005	DV-TVRK-005	1	10	299
3/4	DV-TERK-007	DV-TVRK-007	1	10	299
1	DV-TERK-010	DV-TVRK-010	1	10	299
1-1/4 OR 1-1/2	DV-TERK-015	DV-TVRK-015	1	10	299
2	DV-TERK-020	DV-TVRK-020	1	10	299
O-rings & FKM Backed PTFE Diaphragm					
1/2	DV-VTERK-005	DV-VTVRK-005	1	10	299
3/4	DV-VTERK-007	DV-VTVRK-007	1	10	299
1	DV-VTERK-010	DV-VTVRK-010	1	10	299
1-1/4 OR 1-1/2	DV-VTERK-015	DV-VTVRK-015	1	5	299
2	DV-VTERK-020	DV-VTVRK-020	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)

Suitable for Oil-Free air handling to 25 psi, not for distribution of compressed air or gas

JJ DOWNS INDUSTRIAL PLASTICS INC.

416.236.1884
Toronto, ON
JJDOWNS.COM