



DIAPHRAGM SEAL CROSSOVER AND PRICING GUIDE



BourdonUSA.com

Process Instrumentation





CHOOSE THE RIGHT DIAPHRAGM SEAL...

In the world of pressure measurement, the diaphragm seal has a predominant place. All severe, dangerous or hygienic processes require a diaphragm seal to be installed between the process and the measuring instrument. Nowhere is this more true than in the petrodiaphragm, pharmaceutical and food processing industries.

This guide, covering the majority of cases, will assist you in choosing the right diaphragm seal for the safe and correct measurement of your process.



MANUFACTURER CROSSOVER GUIDE

SEAL TYPE		DIAPHRAGM SEAL MANUFACTURER & MODEL TYPE		
		Bourdon	WIKA	Ashcroft
	Sanitary	DANC	990.22	320
		DADF	990.18	
		DADL	990.18	
		DAEF	990.19	
		DAEL	990.19	
		DAVA	990.24	
	Threaded	DT1	990.10	100 ; 101 ; 200 ; 201
		DT2	990.10	100 ; 101 ; 200 ; 201
		DT3	990.40	740 ; 741
		DT5	990.14	100 ; 101 ; 200 ; 201
		DT8	990.10 ; 990.14	400 ; 401
	Threaded, All-Welded	D042 / DGS11	990.34	500 ; 501
		D043 / DGS12	990.34	500 ; 501 ; 511
		D044 / DGS13	990.34	510
		D045	990.34	510
	Threaded, Flush Diaphragm	D055	990.36	330
	Flanged	D415	990.12 ; 990.FC	102 ; 103
		D425	990.12 ; 990.FC	102 ; 103
		D435	990.12 ; 990.41 ; 990.FC	102 ; 103 ; 702 ; 703
	Flanged, Flush Diaphragm	D820	990.27	DF
		D821	990.26	DF
	In Line Sanitary	1620	981.22	
	In Line Wafer	1650	981.10	

The provided cross-over table is supplied only as a reference tool. All diaphragm seal manufacturers specifications varies across all model types. Please review the individual Specification Sheets to ensure selected diaphragm seal complies with the application requirements.

(Ex. Pressure range, temperature, materials, process connections and etc.)

		COMMENTS (BOURDON MODEL TYPE)
Ametek	Zavoda	
CST		Tri-Clamp
SK		DIN 11851-male thread
SK		DIN 11851-Union nut
		SMS 1147-Male thread
		SMS 1147-Union nut
		Varivent
SB ; SG	551 ; 516 ; 615 ; 616	Pressure Span, Min./Max. (Bar) = 10/160
SB ; SG	551 ; 516 ; 615 ; 616	Pressure Span, Min./Max. (Bar) = 1/40
LA ; LB ; LG ; LH ; SBT ; SGT	615 ; 616	Pressure Span, Min./Max. (Bar) = 0.16/25
SX		Pressure Span, Min./Max. (Bar) = 160/1000
SB ; SG ; SX		Pressure Span, Min./Max. (Bar) = 40/400
XR	505 ; 506	Pressure Span, Min./Max. (Bar) = 1/4
XR	505 ; 506	Pressure Span, Min./Max. (Bar) = 6/70
XR	505 ; 506	Pressure Span, Min./Max. (Bar) = 100/400
		Pressure Span, Min./Max. (Bar) = 250/600
		Pressure Span, Min./Max. (Bar) = 1/600
SC ; SD ; SR	525 ; 526 ; 625 ; 626 ; 630 ; 631	Pressure Span, Min./Max. (Bar) = 10/160
SC ; SD ; SR	525 ; 526 ; 625 ; 626 ; 630 ; 631	Pressure Span, Min./Max. (Bar) = 1/40
LC ; LD ; SCT ; SDT	625 ; 626 ; 630 ; 631	Pressure Span, Min./Max. (Bar) = 0.16/25
SF		
SFX		



SPEED



AVAILABILITY



SERVICE

Threaded Diaphragm Seal

Model Type: DT2



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PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
DT22.N200.2.N0	1/2"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	PTFE	None	\$809.17
DT22.8200.2.N0	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	PTFE	None	\$809.17
DT22.8200.2.80	1/4"NPT-F	1/4"NPT-F	316LSS	316LSS	316LSS	PTFE	None	\$809.17
DT22.N600.2.N0	1/2"NPT-F	1/2"NPT-F	Hast C276	316LSS	316LSS	PTFE	None	\$818.88
DT22.8600.2.N0	1/4"NPT-F	1/2"NPT-F	Hast C276	316LSS	316LSS	PTFE	None	\$818.88
DT22.8600.2.80	1/4"NPT-F	1/4"NPT-F	Hast C276	316LSS	316LSS	PTFE	None	\$818.88
DT22.N600.6.N0	1/2"NPT-F	1/2"NPT-F	Hast C276	Hast C276	316LSS	PTFE	None	\$2,169.42
DT22.8600.6.N0	1/4"NPT-F	1/2"NPT-F	Hast C276	Hast C276	316LSS	PTFE	None	\$2,169.42
DT22.8600.6.80	1/4"NPT-F	1/4"NPT-F	Hast C276	Hast C276	316LSS	PTFE	None	\$2,169.42
DT22.N900.2.N0	1/2"NPT-F	1/2"NPT-F	Monel 400	316LSS	316LSS	PTFE	None	\$897.13
DT22.8900.2.N0	1/4"NPT-F	1/2"NPT-F	Monel 400	316LSS	316LSS	PTFE	None	\$897.13
DT22.8900.2.80	1/4"NPT-F	1/4"NPT-F	Monel 400	316LSS	316LSS	PTFE	None	\$897.13
DT22.N900.9.N0	1/2"NPT-F	1/2"NPT-F	Monel 400	Monel 400	316LSS	PTFE	None	\$1,535.17
DT22.8900.9.N0	1/4"NPT-F	1/2"NPT-F	Monel 400	Monel 400	316LSS	PTFE	None	\$1,535.17
DT22.8900.9.80	1/4"NPT-F	1/4"NPT-F	Monel 400	Monel 400	316LSS	PTFE	None	\$1,535.17
DT22.N700.2.N0	1/2"NPT-F	1/2"NPT-F	Tantalum	316LSS	316LSS	PTFE	None	\$1,120.06
DT22.8700.2.N0	1/4"NPT-F	1/2"NPT-F	Tantalum	316LSS	316LSS	PTFE	None	\$1,120.06
DT22.8700.2.80	1/4"NPT-F	1/4"NPT-F	Tantalum	316LSS	316LSS	PTFE	None	\$1,120.06
DT22.N700.9.N0	1/2"NPT-F	1/2"NPT-F	Tantalum	Monel 400	316LSS	PTFE	None	\$1,997.66
DT22.8700.9.N0	1/4"NPT-F	1/2"NPT-F	Tantalum	Monel 400	316LSS	PTFE	None	\$1,997.66
DT22.8700.9.80	1/4"NPT-F	1/4"NPT-F	Tantalum	Monel 400	316LSS	PTFE	None	\$1,997.66

Threaded All-Welded Diaphragm Seal

Model Type: D043



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PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
D043-2N0N	1/2"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$497.00
D043-2N06	1/2"NPT-F	1/2"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$612.10
D043-2N05	1/2"NPT-F	1/4"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$612.10
D043-280N	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$497.00
D043-2806	1/4"NPT-F	1/2"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$612.10
D043-2805	1/4"NPT-F	1/4"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$612.10



Additional diaphragm seal types/designs are available, please contact BourdonUSA for details.

*Prices valid through 2019.



Offline Flanged Diaphragm Seal

Model Type: D435

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PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
D435-2N2.0212.G20	1/2"NPT-F	1/2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,148.18
D435-2N2.0214.G20	1/2"NPT-F	1-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,059.30
D435-2N2.0216.G20	1/2"NPT-F	1 1/2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,166.05
D435-2N2.0217.G20	1/2"NPT-F	2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,550.10
D435-2N2.0224.G20	1/2"NPT-F	1"-300#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,165.92
D435-2N2.0227.G20	1/2"NPT-F	2"-300#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,595.50
D435-282.0212.G20	1/4"NPT-F	1/2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,148.18
D435-282.0214.G20	1/4"NPT-F	1-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,059.30
D435-282.0216.G20	1/4"NPT-F	1 1/2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,166.05
D435-282.0217.G20	1/4"NPT-F	2"-150#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,550.10
D435-282.0224.G20	1/4"NPT-F	1"-300#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,165.92
D435-282.0227.G20	1/4"NPT-F	2"-300#RF	316LSS	316LSS	316LSS	PTFE	None	\$1,595.50
D435-2N6.0212.G20	1/2"NPT-F	1/2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,210.82
D435-2N6.0214.G20	1/2"NPT-F	1-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,121.94
D435-2N6.0216.G20	1/2"NPT-F	1 1/2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,228.69
D435-2N6.0217.G20	1/2"NPT-F	2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,612.74
D435-2N6.0224.G20	1/2"NPT-F	1"-300#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,228.56
D435-2N6.0227.G20	1/2"NPT-F	2"-300#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,658.14
D435-286.0212.G20	1/4"NPT-F	1/2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,210.82
D435-286.0214.G20	1/4"NPT-F	1-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,121.94
D435-286.0216.G20	1/4"NPT-F	1 1/2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,228.69
D435-286.0217.G20	1/4"NPT-F	2"-150#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,612.74
D435-286.0224.G20	1/4"NPT-F	1"-300#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,228.56
D435-286.0227.G20	1/4"NPT-F	2"-300#RF	Hast C276	316LSS	316LSS	PTFE	None	\$1,658.14



PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
D435-2N6.0212.G60	1/2"NPT-F	1/2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$5,816.19
D435-2N6.0214.G60	1/2"NPT-F	1-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$5,969.34
D435-2N6.0216.G60	1/2"NPT-F	1 1/2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,219.68
D435-2N6.0217.G60	1/2"NPT-F	2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,357.54
D435-2N6.0224.G60	1/2"NPT-F	1"-300#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,454.52
D435-2N6.0227.G60	1/2"NPT-F	2"-300#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,449.69
D435-286.0212.G60	1/4"NPT-F	1/2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$5,816.19
D435-286.0214.G60	1/4"NPT-F	1-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$5,969.34
D435-286.0216.G60	1/4"NPT-F	1 1/2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,219.68
D435-286.0217.G60	1/4"NPT-F	2"-150#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,357.54
D435-286.0224.G60	1/4"NPT-F	1"-300#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,454.52
D435-286.0227.G60	1/4"NPT-F	2"-300#RF	Hast C276	Hast C276	316LSS	PTFE	None	\$6,449.69
D435-2N9.0214.G90	1/2"NPT-F	1"-150#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,603.11
D435-2N9.0216.G90	1/2"NPT-F	1 1/2"-150#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,677.63
D435-2N9.0224.G90	1/2"NPT-F	1"-300#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,796.18
D435-289.0214.G90	1/4"NPT-F	1"-150#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,603.11
D435-289.0216.G90	1/4"NPT-F	1 1/2"-150#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,677.63
D435-289.0224.G90	1/4"NPT-F	1"-300#RF	Monel 400	Monel 400	316LSS	PTFE	None	\$2,796.18

Additional diaphragm seal types/designs are available, please contact BourdonUSA for details.

*Prices valid through 2019.

Threaded Mini-Seal

Model Type: M35



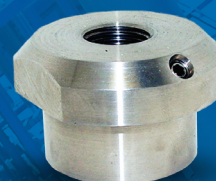
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PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
DS-M3512-316-0	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$163.50
DS-M3512-316-F	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$238.00
DS-M3512-316-M	1/4"NPT-F	1/2"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$192.50
DS-M3511-316-0	1/4"NPT-F	1/4"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$163.50
DS-M3511-316-F	1/4"NPT-F	1/4"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$238.00
DS-M3511-316-M	1/4"NPT-F	1/4"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$219.50
DS-M3511-316-M-F	1/4"NPT-F	1/4"NPT-M	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$294.00
DS-M3512-SHC-0	1/4"NPT-F	1/2"NPT-F	Hast C276	316LSS	316LSS	n/a	None	\$194.85
DS-M3511-SHC-0	1/4"NPT-F	1/4"NPT-F	Hast C276	316LSS	316LSS	n/a	None	\$194.85
DS-M3512-HTC-0	1/4"NPT-F	1/2"NPT-F	Hast C276	Hast C276	Hast C276	n/a	None	\$1,015.40
DS-M3511-HTC-0	1/4"NPT-F	1/4"NPT-F	Hast C276	Hast C276	Hast C276	n/a	None	\$1,015.40
DS-M3511-HTC-M	1/4"NPT-F	1/4"NPT-M	Hast C276	Hast C276	Hast C276	n/a	None	\$1,240.90
DS-M3511-MON-0	1/4"NPT-F	1/4"NPT-F	Monel 400	Monel 400	Monel 400	n/a	None	\$656.45
DS-M3512-HTC-K	1/4"NPT-F	1/2"NPT-F	Tantalum	Hast C276	Hast C276	n/a	None	\$1,140.25
DS-M3511-HTC-K	1/4"NPT-F	1/4"NPT-F	Tantalum	Hast C276	Hast C276	n/a	None	\$1,140.25

Threaded Low Pressure Mini-Seal

Model Type: M45



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PART NUMBER	CONNECTIONS		MATERIALS				FLUSH PORT	LIST PRICE*
	Instrument	Process	Diaphragm	Lower Housing	Upper Housing	Gasket		
DS-M4522-316-0	1/2"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4522-316-F	1/2"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$441.50
DS-M4522-316-M	1/2"NPT-F	1/2"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$426.10
DS-M4523-316-0	1/2"NPT-F	3/4"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4524-316-0	1/2"NPT-F	1"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4524-316-F	1/2"NPT-F	1"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$441.50
DS-M4524-316-M-F	1/2"NPT-F	1"NPT-M	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$496.60
DS-M4512-316-0	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4512-316-F	1/4"NPT-F	1/2"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$441.50
DS-M4511-316-0	1/4"NPT-F	1/4"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4511-316-F	1/4"NPT-F	1/4"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$441.50
DS-M4511-316-M	1/4"NPT-F	1/4"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$426.10
DS-M4514-316-0	1/4"NPT-F	1"NPT-F	316LSS	316LSS	316LSS	n/a	None	\$371.00
DS-M4514-316-F	1/4"NPT-F	1"NPT-F	316LSS	316LSS	316LSS	n/a	1/4"NPT-F	\$441.50
DS-M4514-316-M	1/4"NPT-F	1"NPT-M	316LSS	316LSS	316LSS	n/a	None	\$426.10
DS-M4522-SHC-0	1/2"NPT-F	1/2"NPT-F	Hast C276	316LSS	316LSS	n/a	None	\$406.80
DS-M4512-SHC-0	1/4"NPT-F	1/2"NPT-F	Hast C276	316LSS	316LSS	n/a	None	\$406.80
DS-M4511-SHC-0	1/4"NPT-F	1/4"NPT-F	Hast C276	316LSS	316LSS	n/a	None	\$406.80
DS-M4522-HTC-0	1/2"NPT-F	1/2"NPT-F	Hast C276	Hast C276	Hast C276	n/a	None	\$1,492.30
DS-M4512-HTC-0	1/4"NPT-F	1/2"NPT-F	Hast C276	Hast C276	Hast C276	n/a	None	\$1,492.30
DS-M4511-HTC-0	1/4"NPT-F	1/4"NPT-F	Hast C276	Hast C276	Hast C276	n/a	None	\$1,492.30

Additional diaphragm seal types/designs are available, please visit Picgauges.com for details. 8

*Prices valid through 2019.

Worldwide Presence

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availability, and service you need.**

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