

SEE CHART FOR
AVAILABLE CONFIGURATIONS

OTHER CONNECTION TYPES AND MATERIALS AVAILABLE UPON REQUEST

► MODEL W - WELDED DIAPHRAGM SEALS

Protective device used to isolate the pressure instrument from the process fluid being monitored.

- Diaphragm welded to upper housing to provide high integrity seal.
- Bolts can be removed and seal separated for cleaning, liquid filling, calibration, welding etc. without the loss of fill fluid.
- Available with flushing connection.
- Maximum pressure rating is 2500 PSIG on threaded type. Stainless steel bolts reduce the max. working pressure by 50%.

► MODEL M - MINI DIAPHRAGM SEALS

Economical Isolator designed to protect smaller gauges from heat corrosion and clogging.

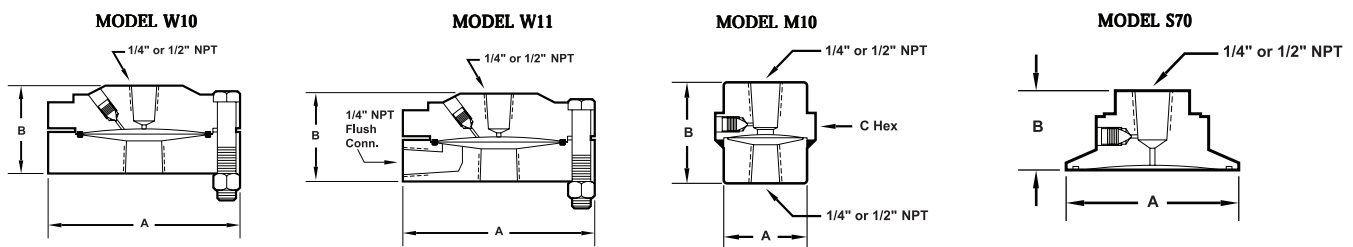
- All welded construction, no gasketing or bolts.
- For use with most 3-1/2" and smaller gauges (100 PSIG minimum).

► MODEL S - SANITARY DIAPHRAGM SEALS

Designed for food, dairy and pharmaceutical industries to ensure that surfaces exposed to process are virtually crack and crevice free.

- Diaphragm is welded to the seal housing to provide sanitary type construction.
- Manufactured to meet design, material and fabrication requirements of 3-A Sanitary Standard.
- Seal may be removed from the system without loss of fluid.
- Fits most popular sanitary piping systems including Tri-Clover Tri-Clamp and others.

► TYPICAL DIMENSIONS:



► TYPICAL CONFIGURATIONS:

MODEL	A	B	C
W10X/W11X	3.50" (89mm)	2.4" (46mm)	
M10B	1.38" (35mm)	1.50" (38mm)	1.73" (44mm)
S70X7	1.98" (51mm)	1.42" (28mm)	

► HOW TO ORDER: Note: Filled Diaphragm Seals Are Ordered As Sets With Pressure Gauges

To Build A Part Number: Select one code from each column to build your diaphragm seal.

MODEL	TYPE	MAX. PRESS. RATING*	PROCESS CONN.	CONN. TYPE	WETTED MATERIALS LOWER HSE./DIAPHRAGM	GASKET	UPPER HSE. MAT.	INST. CONN.	BOLTS
W Welded Threaded Offline	10 = Threaded off line	X = Depends on final configuration	1 = 1/4"	1 = NPT	SS = 316LSS/316LSS EE = Hastelloy C/Hastelloy C JT = Monel/Tantalum ET = Hastelloy C/Tantalum	G = Grafoil K = C-4401 T = Teflon R = Aramid	B = Carbon Steel S = 316LSS	1 = 1/4" NPT 3 = 1/2" NPT	1 = Carbon Steel 2 = 304SS**
	11 = Threaded offline w/flush conn.		3 = 1/2" 4 = 3/4" 5 = 1"						
W Welded Inline	35 = Threaded in line	X = Depends on final configuration	1 = 1/4" 3 = 1/2" 4 = 3/4" 5 = 1" 7 = 1-1/2" 8 = 2"	3 = Pipe Size					
W Welded Flanged	25 = Flanged off line	9 = ANSI B16.5	5 = 1"	A = 150#RF B = 300#RF C = 600#RF M = 1500#RTJ	SS = 316LSS/316LSS EE = Hastelloy C/Hastelloy C JT = Monel/Tantalum ET = Hastelloy C/Tantalum	G = Grafoil K = C-4401 T = Teflon R = Aramid	B = Carbon Steel S = 316LSS	1 = 1/4" NPT 3 = 1/2" NPT	X = Depends on construction type
	26 = Flanged off line w/flush		7 = 1-1/2" 8 = 2"						
	51 = Flanged in line								
M Mini	10 = Threaded	A = 1000	1 = 1/4"	1 = NPT Female (standard) 5 = NPT Male (req. quote)	SS = 316SS/316LSS EE = Hastelloy C/Hastelloy C	0 = N/A	R = 316SS	1 = 1/4" 3 = 1/2"	0 = N/A
	11 = Threaded w/flush	B = 2000	3 = 1/2"						
S Sanitary	70 = Tri-Clamp	X = Depends on clamp	7 = 1-1/2" 8 = 2" 9 = 3"	2 = Sanitary Fitting	0S = 316LSS Diaphragm	0 = N/A	S = 316LSS	1 = 1/4" 3 = 1/2"	0 = N/A

* All pressure ratings for diaphragm seals are at 100°F. Higher temperatures will lower the maximum working pressure.

** Bolts - Max. pressure rating is 1,250 PSI when 304 S.S. bolts are used.

Note: Other configurations available (consult factory).

EXAMPLE:

Specs: Welded, Threaded w/1/2" NPT process conn., 316LSS Lower Hse. Mat., 316LSS Diaphragm, C-4401 Gasket, Carbon Steel Upper, and 1/4" NPT Inst. Conn.

Select:

W	10	X	3	1	SS	K	B	1	1
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Ordering Format: W10X31SSKB11

► DIAPHRAGM SEAL FILLING OPTIONS

(Required when assembling seal with gauge)

MATERIAL	TEMPERATURE RANGE	PART NUMBER
Glycerine (Food Grade)	+30 to +300°F (-1 to 149°C)	Assembly-G
Silicone Oil, 350CS (Food Grade)	-55 to 500°F (-48 to 260°C)	Assembly-S350
* Fluorolube	-40 to 500°F (-40 to 260°C)	Assembly-FS-5
* Halocarbon	-40 to 400°F (-40 to 204°C)	Assembly-H-10

* Fluorolube FS-5 and Halocarbon H-10 - DO NOT use in contact with aluminum or magnesium.

NOTE: OTHER FILLS AVAILABLE