

# Saddle-Welded Diaphragm Seals

DIAPHRAGM SEALS



M545 shown

- ▶ Clean-out Design
- ▶ Saddle-Welded Process Connection

The Trerice **Saddle-Welded Diaphragm Seal** is furnished with a Clean-out design, for use on pipe sizes of 1" through 8". The diaphragm seal is installed by welding the process housing directly onto the pipe. Available diaphragm choices include: Teflon (T), Viton (V), Removable Metal (M) and Welded Metal (W).

**Selection of the proper diaphragm seal is the sole responsibility of the user. Temperature and pressure limitations must be considered. Please refer to the Diaphragm Seal Design & Operation Section of this catalog. Improper application may cause failure of the seal, resulting in possible personal injury or property damage.**

**For correct use and application of all diaphragm seals, please refer to Diaphragm Seal Standard ASME B40.2.**

## SPECIFICATIONS

Style	Available Diaphragm Types*	Diaphragm Size	Process Connection	Clean-out Design	1/4 NPT Flushing Connection
545	M, T, V, W	Standard	Welded	Yes	No
645	M, T, W	Large	Welded	Yes	No

\*M = Removable Metal, T = Teflon, V = Viton, W = Welded Metal

Note: Due to the variety of available diaphragm seal configurations and materials, it is not possible to list each weight in this catalog. Please consult factory.

## HOW TO ORDER

Sample Order Number: **W 5 45 05 S S CC**

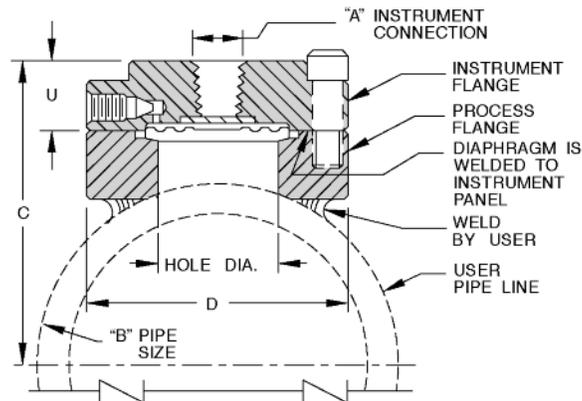
Diaphragm Type	Diaphragm Size	Style	Connection Size	Diaphragm Material	Process Housing Material	Instrument Housing & Bolt Material
M Metal T Teflon V Viton** W Welded	5 Standard 6 Large	45 Saddle-Welded	See Connection Sizes	See Diaphragm Materials	See Process Housing Materials	CC Carbon Steel SS 316 Stainless Steel

\*\*Diaphragm Type V available only with Diaphragm Size 5.

See Sizes and Materials Table

# Saddle-Welded Diaphragm Seals

All dimensions are nominal. Dimensions in [ ] are in millimeters.



DIAPHRAGM SEALS

Diaphragm Type and Size	A	B	U	C	D	Hole Diameter
M, T, W 5 Series	1/4, 1/2 NPT as specified	1	0.88 [22]	2.13 [55]	3.50 [89]	1.00 [25]
		1 1/2	0.88 [22]	2.38 [60]	3.50 [89]	1.50 [38]
		2	0.88 [22]	2.63 [67]	3.50 [89]	1.50 [38]
		3	0.88 [22]	3.25 [83]	3.50 [89]	1.50 [38]
		4	0.88 [22]	3.81 [97]	3.50 [89]	1.50 [38]
		6	0.88 [22]	4.94 [125]	3.50 [89]	1.50 [38]
V 5 Series	1/4, 1/2 NPT as specified	1	1.00 [25]	2.13 [55]	3.50 [89]	1.00 [25]
		1 1/2	1.00 [25]	2.38 [60]	3.50 [89]	1.50 [38]
		2	1.00 [25]	2.63 [67]	3.50 [89]	1.50 [38]
		3	1.00 [25]	3.25 [83]	3.50 [89]	1.50 [38]
		6	1.00 [25]	4.94 [125]	3.50 [89]	1.50 [38]
		8	1.00 [25]	5.94 [151]	3.50 [89]	1.50 [38]
M, T, W 6 Series	1/4, 1/2 NPT as specified	1	0.88 [22]	2.13 [55]	4.25 [108]	1.00 [25]
		1 1/2	0.88 [22]	2.38 [60]	4.25 [108]	1.50 [38]
		2	0.88 [22]	2.63 [67]	4.25 [108]	1.50 [38]
		3	0.88 [22]	3.25 [83]	4.25 [108]	1.50 [38]
		4	0.88 [22]	3.81 [97]	4.25 [108]	1.50 [38]
		6	0.88 [22]	4.94 [125]	4.25 [108]	1.50 [38]
8	0.88 [22]	5.94 [151]	4.25 [108]	1.50 [38]		

## Sizes and Materials

Connection Sizes			Diaphragm Materials		Process Housing Materials	
Code	Instrument Connection (NPT)	Process Connection	Code	Material	Code	Material
01	1/4	1" Pipe	D	Carpenter 20	C	Steel
02	1/2	1" Pipe	F	304 Stainless Steel*	D	Carpenter 20
05	1/4	1 1/2" Pipe	G	Hastelloy B	F	304 Stainless Steel
06	1/2	1 1/2" Pipe	H	Hastelloy C-276	G	Hastelloy B
07	1/4	2" Pipe	M	Monel	H	Hastelloy C-276
08	1/2	2" Pipe	N	Nickel	M	Monel
09	1/4	3" Pipe	S	316L Stainless Steel	N	Nickel
10	1/2	3" Pipe	T	Teflon	S	316L Stainless Steel
11	1/4	4" Pipe	U	Tantalum		
12	1/2	4" Pipe	V	Viton**		
13	1/4	6" Pipe				
14	1/2	6" Pipe				
15	1/4	8" Pipe				
16	1/2	8" Pipe				

\* 304 Stainless Steel diaphragm not available with Diaphragm Size 6.

\*\* Viton Diaphragm available only with Diaphragm Size 5.