Threaded Flush Face Seals

Dimensional Drawing



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REOTEMP's Flush-Face diaphragm seals are useful in applications where a continuous flow of process across the diaphragm is required to prevent solids buildup.





How To Order

	Instrument	Process	Max working	Minimum Recommended Pressure Range			
Model	Conn	Conn	Drossuro (@100E)	Gauges	(psi)	Traneducore	
			11635016 (@1001)	2 1/2"	4"	Transuuccis	
DSFF21S DSFF41S	1/2" NPT 1/4" NPT	1" NPT	1500 psi	0-15	0-60	30 psi	
DSFF23S DSFF43S	1/2" NPT 1/4" NPT	3/4" NPT	2500 psi	0-60	N/A	15 psi	
DSFF42S	1/4" NPT	1/2" NPT	5000 psi	0-100	N/A	100 psi	
DSF4G1S	1/4" NPT	1" BSPP	8000 psi	0-30	0-60	30 psi	

Dimensions (inches)							
Process Conn. NPT	Diaphragm Diameter "D"	Overall Length "L"	Width "W"				
1"	1.125"	2.65"	1.75"				
3/4"	.875"	2.47"	1.75"				
1/2"	.675"	1.43"	.875"				
1" BSPP	.980"		1.62"				

*Note: Use largest diaphragm possible, for smallest temperature effect.

3.4"

- Teflon Diaphragm
- Isolate Pressure Instruments
 from Corrosive Media
- High Chemical Resistance
- Upper housing is glass filled polypropylene
- Heavy Duty Design for Safety
- Ideal for waste water treatment



REOTEMP's Series PLS Plastic Seals allow pressure gauges, switches, or transmitters to be used in corrosive applications compatible with wetted materials.

How To ORDER

PLS1 —	4 -	4 - [<u>T</u>	—[P			
Instrument Connection:	Process Connection:	Diaphragm Material:			Lower H	ousing:		Options:
4 =1/4 NPT	4 =1/4 NPT	Z=PVCP=PolypropyleneK=Kynar (PVDF)						-Pressure Gauge
2 =1/2 NPT	2 =1/2NPT	(PTFE) Bonded	Code	*MWP at 68° F	*MWP at 140° F	*MWP at 170° F	Operating temp. range	-Gauge mount & fill (glycerin or silicone)
		Hypalon	Z = P = K =	150 psi 150 psi 150 psi	15 psi 65 psi 105 psi	 15 psi 75 psi	14/140° F 46/176° F 22/248° F	
					*MWP = Max W	/orking Pressur	e	

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FLUID	TEMPERATURE LIMITS	VISCOSITY, CS, 77°	F NOTES	
Silicone, DC 200	-50 to 450° F	20	our standard fill	not to be
Silicone, DC 704	+50 to 600° F	44	Hi-temp fill	used with
Silicone, DC 710	+30 to 700° F	500	Hi-temp fill	oxidizers,
Neobee M-20	-4 to 320° F	10	food grade	such as chlorine
Glycerin	+30 to 300° F	1110	for food; not recomm. for capillary	oxygen, etc.
Halocarbon	-40 to 400° F	6	inert, for use with oxidizers	
Other fills available: c	(must not contact Al, Mg)			

Credits: Viton, Teflon, Kynar, TM DuPont, Inc.; Carpenter 20 - TM Carpenter Steel Co.; Inconel, Monel - TM Huntington Alloys, Inc.; Hastelloy - TM Cabot Corp.; Halocarbon - TM Halocarbon Corp.

Flush Face Flanged Seals

REOTEMP's Flush-Face diaphragm seals are useful in applications where a continuous flow of process across the diaphragm is required to prevent solids buildup, and a one-piece, all-welded construction is desired.

- Flange type with bolt holes
- Seal is bolted to raised-face flange in process
- Center instrument exit
- Instrument can be mounted directly or connected via capillary
- · Ideal for gauges, transmitters, or dP transmitters

Table (A)

Process/Instrument Connection Codes





Table (B) Dimensions (inches)

Process Connection		Instrument Connection			Table B Dimensions (Inches)					
ANSI	ANSI RFF		1/2" NPT	Welded Capillary	Process Connection (ANSI RFF)		A	B*	С	D (nominal)
1"		V21	V22	W22	1 1/2"		5.00	.69	2.88	1.5
1 1/2"		V41	V42	W42	2"		6.00	.75	3.62	2.4
2"	150#	V51	V52	W52	2"	150#	7 50	94	5.0	3.5
3"		V61	V62	W62			0.0	04	6.10	2.5
4"		V71	V72	W72	4"		9.0	.94	0.19	3.5
1"		V23	V24	W24	1 1/2"		6.12	.81	2.88	1.5
1 1/2"	200#	V43	V44	W44	2"		6.50	.88	3.62	2.4
2"	300#	V53	V54	W54	3"	300#	8.25	1.12	5.0	3.5
3 		V03 V73	V04 V74	W04	Δ"		10.0	1.25	6 10	35
		110	V/4	VV / -+	-		10.0	1.20	0.19	0.0
1 1/2"		V45	V46	W46	1 1/2"		6.1	1.13	2.88	1.5
2	600#	V55 V56 W56 2"	600#	6.5	1.25	3.62	2.4			
3		V65	V66	W66	3"		10.0	1.50	5.0	3.5
How M9 –	TO Seal	OR type	Flange Pr Connect	rocess M stion] —	/elded Dia Material	aphragm (wetted)	Body Ma		Ор — [otions
BF = Std. Seal (body is Wetted)Choose Flange Connection Code from table (A) BRF = Integral face/Diaphragm (Body material is not wetted)example: V41 = 1/4" NPT x 1 1/2" 150#			S = 316 $G = Has$ $H = Has$ $Y = Inco$ $M = Mon$ $N = Nic$ $U = Tan$ $J = Tita$	bSS st B2 st C276 onel 600 nel 400 kel 200 italum inium (requires t	C = Carbo S = 316S	on Steel	H = Handles (for flanges	s over 600#/		
4 REOTEMP										

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MINI-SEALS are all-welded, gasketless, threaded off-line seals. The mini-seal is an economical choice for isolation of smaller gauges, or where high sensitivity is not required.



HOW TO ORDER:



Sanitary In-Line Pressure Seals



TO ORDER: Tri-Clamp type, 1/4" NPT conn., 316SS

Pipe Size (D)	Tri-Clamp Conn.	Part Number	L (length)
1/2"	1/2"	ILS-TC05	7.87"
3/4"	3/4"	ILS-TC75	4.33"
1"	1"	ILS-TC10	4.33"
1 1/2"	1.5"	ILS-TC15	4.33"
2"	2"	ILS-TC20	4.33"
3"	3"	ILS-TC25	2.36"

REOTEMP IN-LINE SEALS are the solution to many difficult pressure measurement applications. These seals are designed to 3-A standards, and allow unobstructed flow-through of process media.

Specifications:

Pipe material:	316LSS
Diaphragm Material:	316LSS standard
	(other material available on request)
Instrument	
Connections:	1/4" NPT std., (1/2" NPT, BSP threads cooling
	element or capillary line available)
Pipe connections:	Tri-clamp, (ANSI Flange (or metric connection
	types avail consult factory)
Pressure Limits:	600 psi (other styles to 6,000 psi)
Pipe sizes:	1/2" to 4"
Filling Fluids:	Glycerin, vegetable oil or any food -
	compatible fluid
Leak checking:	All seals are helium leak tested

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OTHER **D**IAPHRAGM **S**EALS **DIAPHRAGM SEALS** REOTEMP provides many special-use or custom diaphragm seals. Consult factory for specific application assistance. SADDLE SANITARY SEAL **CHERRY BURELL "I" Line** Welded In-Line **Flow-Thru** • 3" and Larger 3-A Sanitary Seal **Process Pipe Sizes** Sanitary Seal Tri-Clamp sizes 1 1/2", 2", 3", • 2.4" Diaphragm • 1.5", 2.0", 3.0" Sizes 4" CPM FITTING SEAL **Tree Seal Assembly IN-LINE FLOW THRU Eliminates/ Reduces Process** "Dead-Leg" Unobstructed Flow of Process media · Available in Triclamp or Auto-Weld Styles No Recesses or Constrictions • "Tree" mounting of multiple "ANSI" Flange Connections 316LSS ID-15RA, EP Finish instruments on one seal **BUTTON SEAL** SANITARY TANK SPUD WEDGE TYPE SEAL



- For High Pressures
- 0.9" Dia. Diaphragm
- Connections: Homogenizer, Flanged, Threaded

Weld Spud Available **DIAPHRAGM SEAL OPTIONS AVAILABLE**

• 2.0" & 6.0" Extensions

- Calibration Rings for Flanged Seals
- Gold Plated Diaphragms
- Low Volume Nipples
- Capillary

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Flow Meter Seal

Wedge Type Connection

INSTRUMENTS