

# **Diaphragm-Type Diaphragm Seal**

Standard Clamped Diaphragm Flanged Diaphragm Seal Type L990.FA

## **Diaphragm Seals**

#### Application

Process industry diaphragm seal to combine with Bourdon tube pressure gauges. Intended for corrosive, contaminated, hot or viscous pressure media.

### Design

Internal clamped diaphragm with threaded process connection; requires hydraulic fluid to transmit pressure to instrument

## **Process Connection**

1/2" to 1 1/2" per ASME B16.5

## **Instrument Connection**

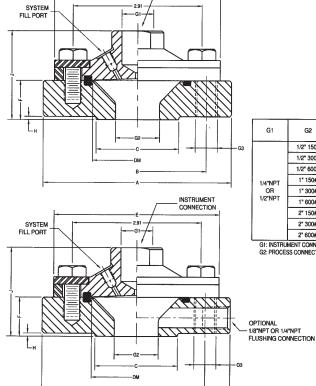
Capillary, 1/4" or 1/2" NPT-female

## **Suitable Pressure Ranges**

15 PSI to Class 1500

**Available Options** (connections, materials, flushing ports, etc.) See Selection Guide (over)





G1	G2	G3	A	В	С	DM	E	F	Н	J	WEIGHT
			in	in	in	in	in	in	in	in	lbs
1/4"NPT OR 1/2"NPT	1/2" 150#	4x1/2"-13UNC	3.50	2.38	1.38	2.1	3.74	1.10	0.06	2.20	4.3
	1/2" 300#	4x1/2"-13UNC	3.75	2.62				1.10	0.06	2.20	4.3
	1/2" 600#	4x1/2"-13UNC	3.75	2.62				1.26	0.25	2.36	4.4
	1" 150#	4x1/2"-13UNC	4.25	3.12	2.00			0.87	0.06	1.97	4.4
	1" 300#	4x5/8*-11UNC	4.88	3.50				0.87	0.06	1.97	8.5
	1" 600#	4x5/8*-11UNC	4.88	3.50				1.26	0.25	2.36	8.5
	2" 150#	4x5/8*-11UNC	6.00	4.75	3.62			0.87	0.06	1.97	6.1
	2" 300#	8x0.75	6.50	5.00				0.89	0.06	1.99	8.5
	2" 600#	8x0.75	6.50	5.00				1.28	0.25	2.38	10.0
GI: INSTRUMENT CONNECTION G2: PROCESS CONNECTION									DWG.#2211785-5		

To determine the effects of temperature and response time in a specific application, contact the factory for an *Application Questionnaire*. The information provided will allow WIKA Technical Support to accurately model your application parameters using state-of-the-art computer simulation techniques.

## Selection Guide - L990.FA

### L990.FA,1/4X1.0-150R,CS,CS-0,CS,SS,VI Gasket Material (See note 7) VI = Viton® BN = Buna "N" TF = Teflon®, virgin NA = None (See note 6) Diaphragm Material SS = 316 stainless steel MO = Monel® 400 HB = Hastelloy® B-2 HC = Hastellov® C-276 PF = 316 stainless steel, Teflon® coated TF = 316 stainless steel, virgin Teflon® lined TA = Tantalum TI = Titanium, grade 2 (See note 5) NI = Nickel 200 IN = Inconel® 600 IC = Incoloy® 825 CA = Carpenter® 20 SA = 316 SS, gold-plated VI = Viton® (See note 4) Clamp & Support Material (Including bolts) CS = Carbon Steel, zinc-plated SS = Stainless steel NA= None (See note 3) Flushing Connection (See note 2) 0 = None1 = 1/8" NPT female 2 = 1/4" NPT female Lower Housing Material CS = Carbon steel, nickel-plated SS = 316 stainless steel MO = Monel® 400 HB = Hastelloy® B-2 HC = Hastelloy® C-276 CC = Carbon steel, nickel-plated Teflon® lined, carbon CW = Carbon steel, nickel-plated Teflon® lined, virgin SC = 316 stainless steel, Teflon® lined, carbon SW = 316 stainless steel, Teflon® lined, white TC = Carbon steel, nickel-plated, Teflon® coated TS = 316 stainless steel. Teflon® coated TA = Tantalum TI = Titanium, grade 2 NI = Nickel 200 IN = Inconel® 600 IC = Incoloy® 825 CA = Carpenter® 20 **Upper Housing Material** CS = Carbon steel, nickel-plated SS = 316 stainless steel TI = Titanium, grade 2

#### Flange Rating (Other facings available) 150R = 150#RF

300R = 300#RF 600R = 600#RF 15XR = 900#/15

15XR = 900#/1500#RF

XXXX = Other ( Define flange connection on purchase order)

#### Process Connection (per ASME B16.5)

1.0 = 1" Pipe 1/2 = 1/2" Pipe 3/4 = 3/4" Pipe 1.5 = 1.5" Pipe 2.0 = 2" Pipe

Instrument Connection 1/4 = 1/4" NPT female 1/2 = 1/2" NPT female Options not listed may be available, please consult factory.
Fill Fluid & Mounting options: Please

reference data sheet ACS 99.MO

Items in **bold** are available from stock (subject to prior sales). For optional items, consult factory for current lead-time.

## Diaphragm Seal Design

990.FA = Clamped Diaphragm (See note 1)

## Ordering Information:

State computer part number (if available) / type number / size / range / connection size and location / options required.

 $Specifications given in this price list represent the state of engineering at the time of printing. \\ Modifications may take place and the specified materials may change without prior notice$ 



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Notes

990.12.606.

990.12.602

housing only.

990.12.620 only.

require gaskets.

1. Includes previous type

2. Includes previous type

3. Capillary connection requires a

6. Viton® diaphragm is available

7. For titanium diaphragm welded

8. For Teflon® lower housing and all welded design (990.12.620)

9. Standard material for stainless

wetted parts (500°F max.). Silver-

plated stainless steel gasket is

used for high temperature

applications (752°F max.).

stainless steel upper housing.

4. Available with solid lower

5. For all welded design

for clamped design only.

to upper housing, a titanium

only. All other lower housings

steel and carbon steel wetted

parts is Viton® (400°F max.). Teflon® is standard for all other

upper housing is required.