Diaphragm-Type Diaphragm Seal

Clamped Diaphragm Flanged Seal

Type L990.FD

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" to 1 ½" per ASME B16.5

Instrument Connection

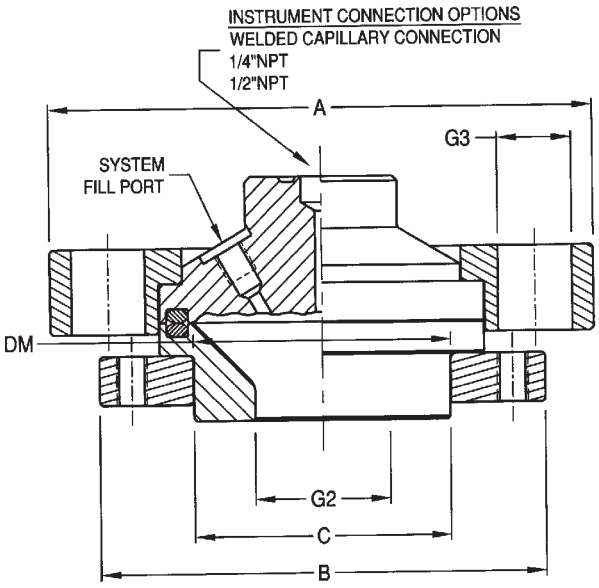
Capillary, ¼" or ½" NPT-female

Suitable Pressure Ranges

15 PSI to Class 300

Available Options (connections, materials, flushing ports, etc.)

See Selection Guide (over)



CLASS=FLANGE RATING PER ASME B16.5
G2: PROCESS CONNECTION
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

G2 SIZE / CLASS	G3 BOLT HOLE	A	B	C	DM
1" 150#	0.62	4.20	3.5	2.0	2.1
1" 300#	0.75	4.88	3.5	2.0	
1-1/2" 150#	0.62	5.00	4.4	2.9	
1-1/2" 300#	0.88	6.12	4.4	2.9	

DWG.#2212579-5

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.FD

L990.FD,1/4X1.0-150R,CS,CS-0,CS,SS,VI

Gasket Material (See note 3)
VI = Viton®
BN = Buna "N"
TF = Teflon®, virgin
NA = None

Diaphragm Material
SS = 316 stainless steel
MO = Monel® 400
HB = Hastelloy® B-2
HC = Hastelloy® C-276
PF = 316 stainless steel, Teflon® coated
TF = 316 stainless steel, virgin Teflon® lined
TA = Tantalum
TI = Titanium, grade 2 (See note 2)
NI = Nickel 200
IN = Inconel® 600
IC = Incoloy® 825
CA = Carpenter® 20
VI = Viton

Clamp & Support Material (Including bolts)
CS = Carbon Steel, zinc-plated
SS = Stainless steel

Flushing Connection (See note 1)
0 = None
1 = 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, Teflon® lined, carbon
CW = Carbon steel, Teflon® lined, virgin)
SC = 316 stainless steel, Teflon® lined, carbon
SW = 316 stainless steel, Teflon® lined, white
TC = Carbon steel, 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

Flange Rating (Other facings available)
150R = 150#RF
300R = 300#RF
XXXX = Other (Define flange connection on purchase order)

Process Connection (per ASME B16.5)
1.0 = 1" Pipe
1.5 = 1.5" Pipe

Instrument Connection
1/4 = 1/4" NPT female
1/2 = 1/2" NPT female

Diaphragm Seal Design
L990.FD = Clamped Diaphragm

Notes
1. Available with solid lower housing only.
2. For titanium diaphragm welded to upper housing, a titanium upper housing is required.
3. Standard material for stainless steel and carbon steel wetted parts is Viton® (400°F max.). Teflon® is standard for all other wetted parts (500°F max.).

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

Options not listed may be available, please consult factory.
Fill Fluid & Mounting options: Please reference data sheet ACS 99.MO

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

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