

Diaphragm-Type Seals

Clamped Diaphragm Flanged Seal

Type L990.FC

WIKA Datasheet L990.FC

Applications

- For use in corrosive, contaminated, hot or viscous media
- Combines with Bourdon tube pressure gauges

Special features

- Assembly does not allow access to diaphragm seal system fill fluid (tamper-proof)
- No threaded connections among pressure containing components
- 316L stainless steel, Monel® or Hastelloy® C276 process wetted materials

Standard version

Design

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

Process Connection

1" to 1½" per ASME B16.5



Diaphragm Seal L990.FC

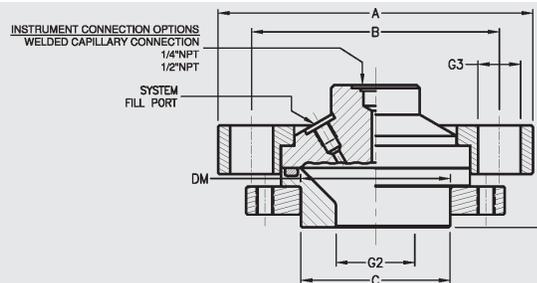
Suitable Pressure Ranges

15 PSI to Class 300

Instrument Connection

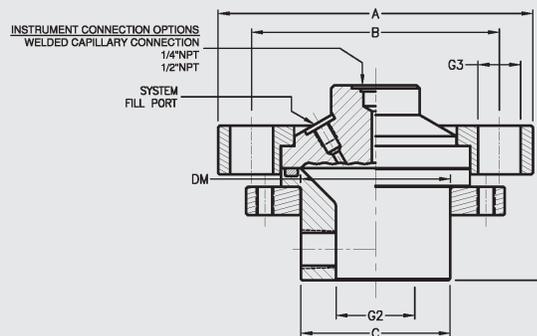
Capillary, 1" or ½" NPT-female

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	CLASS				DM
		A	B	C	F	
1" 150#	0.62	4.25	3.12	2.00	1.36	2.1
1" 300#	0.75	4.88	3.50	2.00		
1-1/2" 150#	0.62	5.00	3.88	2.88	1.36	2.1
1-1/2" 300#	0.88	6.12	4.50	2.88		



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

G2 SIZE / CLASS	G3 BOLT HOLE	CLASS				DM
		A	B	C	F	
1" 150#	0.62	4.25	3.12	2.00	2.06	2.1
1" 300#	0.75	4.88	3.50	2.00		
1-1/2" 150#	0.62	5.00	3.88	2.88	2.06	2.1
1-1/2" 300#	0.88	6.12	4.50	2.88		

DWG.#2212285-5

Selection Guide - L990.FC

L990.FC,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

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.FC = 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



WIKAI Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, GA 30043
1-888-WIKA-USA /770-513-8200 (in GA)
Fax 770-338-5118
info@wika.com www.wika.com