Diaphragm-Type Diaphragm Seal

Pancake-Type Flanged Flush Diaphragm

Type L990.28

Diaphragm Seals

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

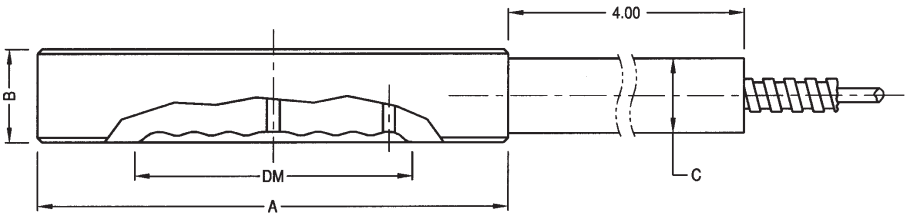
Design
Wafer "pancake" flange with integral diaphragm which requires hydraulic fluid to transmit pressure to instrument.

Process Connection
2" to 5" per ASME/ANSI B16.5

Instrument Connection
Capillary or ¼" NPT-female

Suitable Pressure Ranges
10 inH2O to class 2500, depending on flange and diaphragm size and process conditions

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



DM=EFFECTIVE DIAPHRAGM DIAMETER
CLASS=FLANGE RATING PER ASME B16.5
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

SIZE	CLASS	A	B	C	DM
2"	150#-2500#	4.00	0.78	0.63	2.4
3"		5.28			3.5
4"	150#-1500#	6.22			3.5
5"		7.33			4.9

DWG.#2212153-5

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 - Type L990.28

Type L990.28,CPLX2.0-RF,SS,SS,NO,NONE

Back-up Flange Pressure Rating
NONE = Without back-up flange
150R = 150#RF
300R = 300#RF
600R = 600#RF
900R = 900#RF
15XR = 1500#RF
25XR = 2500#RF
XXXX = Other (Define flange rating on purchase order)

Back-up Flange Material
NO = Without back-up flange
SS = 316 stainless steel
CS = Carbon-steel passivated, powder coated

Wetted Material
SS = 316 stainless steel
MO = Monel® 400 (See note 2)
HB = Hastelloy® B-2 **(See note 2)**
HC = Hastelloy® C-276 (See note 2)
TF = 316 stainless steel, virgin Teflon® lined
PF = 316 stainless steel, Teflon® coated
EC = 316 stainless steel, ECTFE (Halar®) coated
IN = Inconel® 600 **(See note 2)**
IC = Incoloy® 825 **(See note 2)**
TA = Tantalum (See note 2)
TI = Titanium, grade 2 **(See note 3)**
NI = Nickel 200 **(See note 2)**
ZI = Zirconium **(See note 3)**
SA = 316 stainless steel, gold-plated

Upper Housing Material
SS=316 stainless steel
TI=Titanium, grade 2

Flange Rating (Other facings available)
RF = Raised face
XX = Other (Define flange facing on purchase order)

Process Connection
1.5 = 1.5" Pipe
2.0 = 2" Pipe
3.0 = 3" Pipe
4.0 = 4" Pipe
5.0 = 5" Pipe

Instrument Connection
1/4F = 1/4" NPT female
CPL = Capillary connection (To weld capillary directly to seal)

Diaphragm Seal Design (See note 1)
Type L990.28 = Pancake Type, Flush Diaphragm

Notes
1. Pressure rating based on blind flange rating. Suitable pressure ranges from 10" H2O, depending on diaphragm size and process conditions.
2. Supplied with a smooth raised face finish.
3. When used with a stainless steel upper housing, diaphragm is bonded to upper housing (max. 300°F media temperature).

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

THE MEASURE OF
Total Performance™

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

WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, Georgia 30043-5868
Tel: 770-513-8200 Fax: 770-338-5118
http://www.wika.com e-mail: chemseal@wika.com

05/01