



Diaphragm-Type Diaphragm Seals

Pancake-type Flanged Extended Diaphragm

Type L990.35

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

"Pancake" type flange with extended diaphragm, which requires hydraulic fluid to transmit pressure to instrument.

Process Connection

2" to 4" per ASME/ANSI B16.5

Instrument Connection

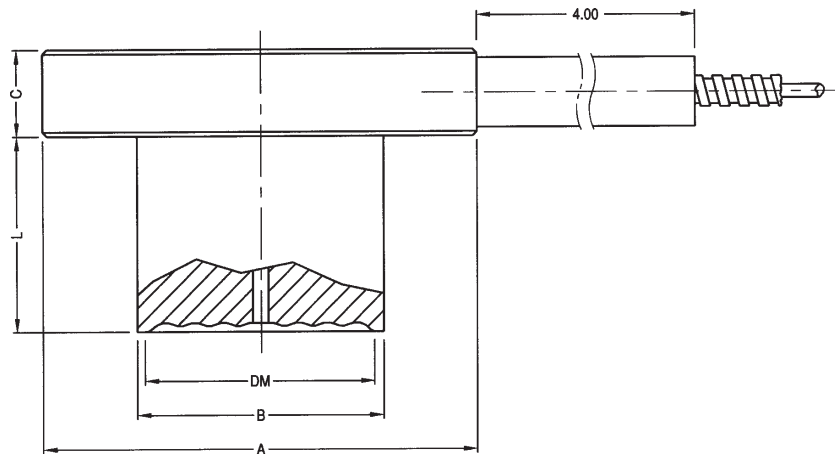
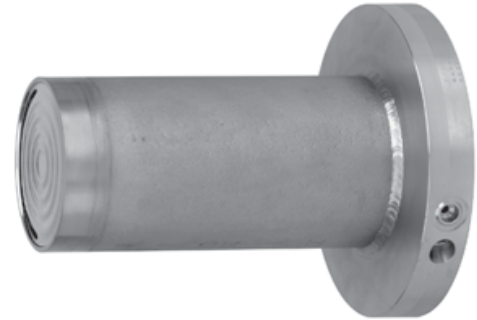
Capillary or 1/4" NPT-female

Suitable Pressure Ranges

10" H₂O to class 600, 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(1)	C	DM	L			
2"	150#	4.02	1.90	0.79	1.9	2.0	3.0	4.0	6.0
3"	150#	5.43	2.99	0.79	2.8				
4"	150#	6.22	3.70	0.79	3.5				
5"	150#	7.40	4.92	0.79	4.9				

(1)BASED ON SCHEDULE 40

DWG.#2212064-5

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.

ACS L990.35
 (ACS 99.07)

Selection Guide - L990.35

L990.35,CPLX3.0,060,SS,SS,NO,NONE

Back-up Flange Pressure Rating

NONE = Without back-up flange

150R = 150#RF

300R = 300#RF

600R = 600#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

Diaphragm Material

SS = 316 stainless steel

MO = Monel[®] 400 (See note 2)

HB = Hastelloy[®] B-2

HC = Hastelloy[®] C-276

PF = 316 stainless steel, Teflon[®] coated

EC = 316 stainless steel, ECTFE (Halar[®]) coated

IN = Inconel[®] 600

IC = Incoloy[®] 825

TA = Tantalum (See note 2)

TI = Titanium, grade 2 (See note 2)

NI = Nickel 200

Extension and Raised Face Material

SS = 316L 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, Teflon[®] coated (See note 2)

TA = 316 stainless steel, tantalum lined (See note 2)

IN = Inconel[®] 600 (See note 2)

IC = Incoloy[®] 825 (See note 2)

TI = Titanium, grade 2 (See note 2)

NI = Nickel 200 (See note 2)

Extension Length (Additional lengths available)

020 = 2.0"

030 = 3.0"

040 = 4.0"

060 = 6.0"

080 = 8.0"

100 = 10.0"

120 = 12.0"

Process Connection

2.0 = 2" Pipe (Extension diameter =1.90")

3.0 = 3" Pipe (Extension diameter =2.99")

4.0 = 4" Pipe (Extension diameter =3.70")

Instrument Connection

CPL = Capillary connection (To weld capillary directly to seal)

Diaphragm Seal Design

L990.35 = Sandwich Type with Extended Diaphragm (See note 1)

Notes

1. Pressure rating based on flange rating per ASME B16.5
2. Diaphragm, extension and raised face material must be the same. Supplied with smooth raised face finish.

*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.

THE MEASURE OF
Total Performance™

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

03/07



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