



Inline Diaphragm Seal

Flanged Inline Diaphragm Seal

Type L981.27

Diaphragm Seals

Application

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

Design

Body with cylindrical diaphragm to be installed between two pipe flanges. Requires hydraulic fluid to transmit pressure to instrument.

Process Connection

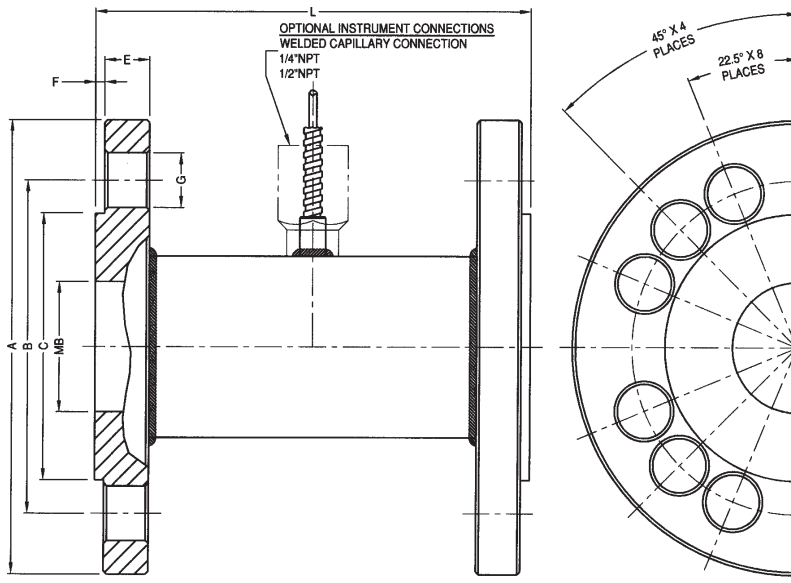
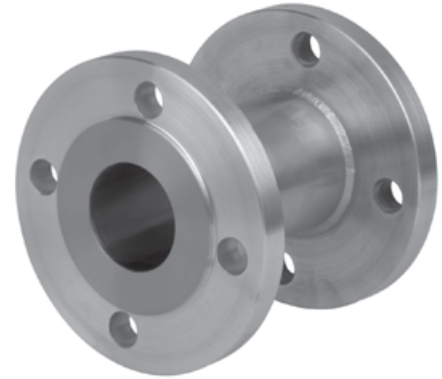
1" to 4" per ASME B16.5; other see options

Suitable Pressure Ranges

From 10 PSI to class300 (for lower ranges consult factory)

Available Options (connections, materials, etc.)

See Selection Guide (over)



X=NUMBER OF BOLT HOLES
 DN=NOMINAL PIPE SIZE
 MB=INTERNAL DIAMETER
 CLASS=FLANGE RATING PER ASME B16.5
 ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

| SIZE DN | CLASS | A | B | C | MB | E | F | G | L | X |
|---------|-------|-------|------|------|------|------|------|------|------|---|
| 1" | 150 | 4.25 | 3.13 | 2.00 | 1.05 | 0.59 | 0.63 | 0.75 | 4.49 | 4 |
| | 300 | 4.88 | 3.50 | | | | | | | |
| 2" | 150 | 6.00 | 4.75 | 3.63 | 2.07 | 0.75 | 0.87 | 0.75 | 6.14 | 4 |
| | 300 | 6.50 | 5.00 | | | | | | | |
| 3" | 150 | 7.50 | 6.00 | 5.00 | 3.07 | 0.94 | 0.94 | 0.75 | 6.54 | 4 |
| | 300 | 8.25 | 6.63 | | | | | | | |
| 4" | 150 | 9.00 | 7.50 | 6.20 | 4.03 | 0.94 | 0.88 | 0.75 | 6.54 | 8 |
| | 300 | 10.00 | 7.88 | | | | | | | |

DWG.#2212099-5

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.

ACSL981.27
 (ACS 98.05)

Selection Guide - Type L981.27

Type L981.27, 1/4X1.0-150R, SS, SS

Wetted Material (Diaphragm and raised face)

SS = 316 stainless steel
MO = Monel® 400
HB = Hastelloy® B-2
HC = Hastelloy® C-276
PF = 316 stainless steel, PFA coating (500°F max.)
EC = 316 stainless steel, ECTFE (Halar®) coating (300°F max.)
TA = Tantalum
TI = Titanium, grade 2

Body Material

SS = 316 stainless steel
TI = Titanium, grade 2

Flange Rating, per ANSI B16.5 (See note 2)

150R = 150#RF
300R = 300#RF
600R = 600#RF

Process Connection

1.0 = 1" Pipe
1.5 = 1-1/2" Pipe
2.0 = 2" Pipe
2.5 = 2-1/2" Pipe
3.0 = 3" Pipe
4.0 = 4" Pipe
5.0 = 5" Pipe
6.0 = 6" Pipe

Instrument Connection

1/4 = 1/4" NPT female
1/2 = 1/2" NPT female
CPL = Capillary connection (To weld capillary directly to seal)

Diaphragm Seal Design (See note 1)

Type L981.27 = Flanged INLINE SEAL™

Notes

1. Maximum working pressure based on flange rating per ASME B16.5.
2. Process connections to meet other sealing faces available, contact factory for availability.

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

05/01



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