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)

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 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.

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