Diaphragm-Type Diaphragm Seals Type L990.26

WIKA Datasheet L990.26

Applications

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

Standard Features

Design

Flange with integral diaphragm, which requires hydraulic fluid to transmit pressure to instrument.

Process Connection 1/2" to 1" per ASME/ANSI B16.5 (Diaphragm recessed)

Instrument Connection

Capillary, $1\!\!\!/_4$ or $1\!\!/_2$ NPT-female

Suitable Pressure Ranges

200 in $\rm H_2O$ to class 300, depending on flange and diaphragm size and process conditions

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

Volumetric Data

Displacement typically for 1.3" SS diaphragm $\Delta V = 0.51 \text{ cm}^3 [0.0311 \text{ in}^3]$ Total cavity volume max V₀ = 0.7 cm³ [0.0427 in³]

Displacement typically for 1.6" SS diaphragm $\Delta V = 0.83 \text{ cm}^3 [0.0506 \text{ in}^3]$ Total cavity volume max V₀ = 1.3 cm³ [0.0793 in³]

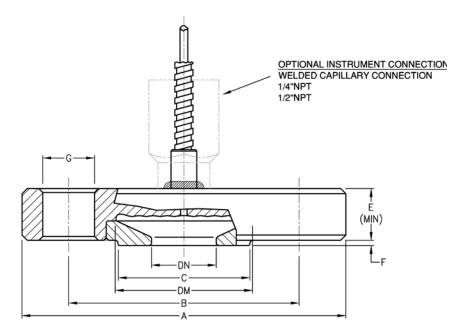
Displacement typically for 2.1" SS diaphragm $\Delta V = 1.37 \text{ cm}^3 [0.0836 \text{ in}^3]$ Total cavity volume max V₀ = 2.4 cm³ [0.1464 in³]



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X = Number of Bolt Holes DN = Nominal Pipe Size DM = Effective Diaphragm Diameter CLASS = Flange Rating Per ASME B16.5 All Dimensions in inches unless otherwise noted

SIZE		•	D		DM	_	F		v	WEIGHT
DN	CLASS	A	В	С	DM	E	F	G	X	lbs
1/2"	150	3.50	2.38	1.38	1.3	0.85	0.06	0.62	4	2.2
1/2	300	3.75	2.62	1.38	1.6	0.85	0.06	0.62	4	2.2
3/4"	150	3.88	2.75	1.69	1.6	0.85	0.06	0.62	4	2.4
3/4	300	4.62	3.25	1.69	1.6	0.85	0.06	0.62	4	3.5
1"	150	4.25	3.12	2.00	2.1	0.85	0.06	0.62	4	3.1
	300	4.88	3.50	2.00	2.1	0.85	0.06	0.62	4	3.7

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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.

	L990.26 Selection Guide								
Field no.	Code	Description-One Piece, Recessed Welded Seal, Flanged	Field no.	Code	Description-One Piece, Recessed Welded Seal, Flanged				
Instrument Connection				Material of Wetted Parts					
	N4F	1/2" NPT female - (see note 6)		SS	Stainless steel 316L (1.4435)				
	N2F	1/4" NPT female - (see note 6)		HB	Hastelloy B2 (2.4617)				
1	CPL	Capillary (Axial weld-in) connection - (see note 1)		НС	Hastelloy C276 (2.4819)				
		Process Connection (according to ASME B16.5)		МО	Monel 400 (2.4360)				
2	50	50 1/2" flange		IN	Inconel 600 (2.4816)				
	75	3/4" flange		IC	Incoloy 825 (2.4858)				
	10	1" flange		TA	Tantalum lined - (see note 2)				
		Flange Rating		NI	Nickel 200 (2.4066)				
3	-150	150#		TI	Titanium Grade 2 (3.7035) - (see note 3)				
	-300	300#		CA	Carpenter 20 (2.4660)				
	-600	600#		TF	Stainless steel with black foil PTFE - (see note 2)				
		Flange Faces		DP	Duplex 2205 (1.4462)				
	R	RF = Raised Face (125-250 RMS)	5	S4	Stainless steel 304L (1.4304)				
4	S	S RFSF = Raised Face Smooth Finish			Options (see note 4				
				XMT	Material Certificate 3.1 EN10204 (metal only)				
				XNC	Wetted parts NACE (MR0175/MR0103 Year 2009) compliant				
				CE4	4" Cooling element - (see note 1, 5)				
			6	CE8	8" Cooling element - (see note 1, 5)				

Notes:

1) Axial weld-in connections and cooling elements are only available on 316L stainless steel flange housings.

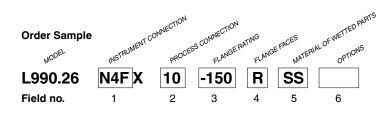
2) These lower housing materials are only offered in smooth finish facings (RFSF) and are not offered with flushing ports.

3) All titanium design, only threaded instrument connections available.

4) List options in alphabetical order at the end of the configuration code.

5) Cooling elements are welded to the diaphragm seal.

6) Threaded instrument connections on this model come with M6 fill ports as standard.



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Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.





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