



Diaphragm-Type Diaphragm Seal

Large Volume Threaded Diaphragm Seals

Type L990.40

Diaphragm Seals

Application

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

Design

Internal 3.5" diaphragm with larger displacement and improved Sensitivity to lower pressure ranges; requires hydraulic fluid to transmit pressure to instrument

Process Connection

¼" to 1" NPT-female, others see options

Instrument Connection

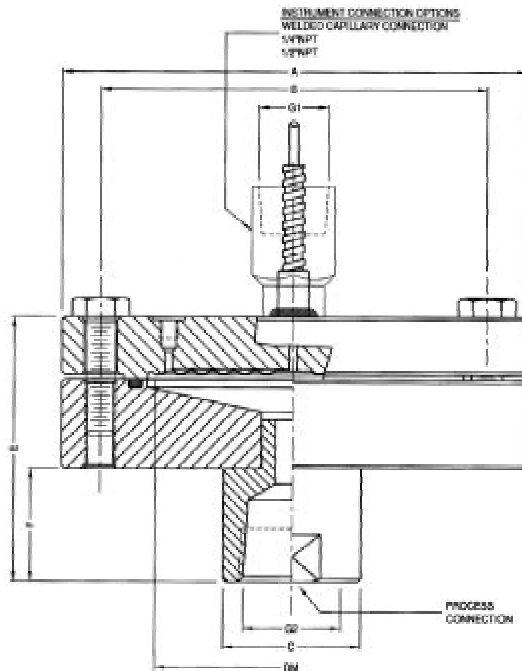
Capillary, ¼" or ½" NPT-female

Suitable Pressure Ranges (MWP 1500PSI @ 250°F)

10" H₂O to 1500 PSI

Available Options

See Selection Guide (over)



G1: INSTRUMENT CONNECTION
G2: PROCESS CONNECTION
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

G1	G2	A	B	C	DM	E	F	WEIGHT lbs		
1/4" NPT OR 1/2" NPT	1/4" NPT	5.61	4.80	1.85	3.5	3.00	0.00	14.0		
	1/2" NPT			1.25				2.00	0.00	14.0
	3/4" NPT			1.30				3.20	1.10	14.2
	1" NPT			1.70				3.00	1.40	14.5

DMG#2011807-5

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 L990.40
(ACS 99.03)

Selection Guide - Type L990.40

Type L990.40, 1/4X1/4F, SS, SS-0, SS, SS, VI, 3.5

Diaphragm Size

3.5 = 3.5" effective diaphragm diameter

4.9 = 4.9" effective diaphragm diameter (See note 9)

Gasket Material (See notes 3 & 8)

VI = Viton®

TF = Teflon®

AS = Alloy 718, silver-plated (See note 7)

Diaphragm Material

SS = 316 stainless steel

MO = Monel® 400 (See note 5)

HB = Hastelloy® B-2 (See note 5)

HC = Hastelloy® C-276 (See note 5)

TF = 316 stainless steel, virgin Teflon® lined

PF = 316 stainless steel, Teflon® coated

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

TA = Tantalum (See note 5)

TI = Titanium (See note 6)

NI = Nickel 200 (See note 5)

IN = Inconel® 600 (See note 5)

IC = Incoloy® 825 (See note 5)

SA = 316 stainless steel, gold plated

Bolts

CS = Carbon steel, zinc-plated

SS = Stainless steel

HS = High temperature stainless steel

Flushing Connection (See note 4)

0 = None

1 = 1/8" NPT female

2 = 1/4" NPT female

3 = 2x1/8" NPT female

4 = 2x1/4" NPT female

Lower Housing Material (See note 3)

CS = Carbon steel, nickel-plated

SS = 316 stainless steel

MO = Monel® 400

HB = Hastelloy® B-2

HC = Hastelloy® C-276

TI = Titanium

NI = Nickel 200

IN = Inconel® 600

IC = Incoloy® 825

Upper Housing Material (See note 2)

CS = Carbon steel, nickel-plated

SS = 316 stainless steel

TI = Titanium

Process Connection

1/4F = 1/4" NPT female

1/2F = 1/2" NPT female

3/4F = 3/4" NPT female

1.0F = 1" NPT female

1/4M = 1/4" NPT male

1/2M = 1/2" NPT male

3/4M = 3/4" NPT male

1.0M = 1" NPT male

Instrument Connection

1/4 = 1/4" NPT female

1/2 = 1/2" NPT female

CPL = Capillary connection (To weld capillary directly to seal, see note 1)

Diaphragm Seal Design (MWP = 1500 PSI)

Type L990.40 = Threaded Process Connection, Large Diaphragm

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Notes

1. Capillary connection is available with a stainless steel upper housing only.
2. Bolting material supplied will match upper housing material, except stainless steel bolts with titanium upper housing.
3. Lower housing and gasket are a process wetted part.
4. Customer to supply flushing plug.
5. Special material metal bonded to stainless steel upper housing.
6. Upper housing must be titanium.
7. Supplied with high temperature stainless steel bolts.
8. Standard material for stainless steel and carbon steel wetted parts is Viton® (400°F max.). Teflon® is standard for all other wetted parts (500°F max.). Silver-plated Alloy 718 gasket is used for high temperature applications (752°F max.).
9. Maximum working pressure 200 PSI.

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

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

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