

Diaphragm-Type Diaphragm Seals

Mini Diaphragm Seals

Type L990.TA

WIKA Datasheet L990.TA

Application

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

Standard Features

Design

Upper and lower housing welded with integral diaphragm
It requires hydraulic fluid to transmit pressure to instrument

Process Connection

1/4" or 1/2" NPT-female, other see options

Instrument Connection

1/4" or 1/2" NPT-female



Mini Diaphragm Seal Model L990.TA

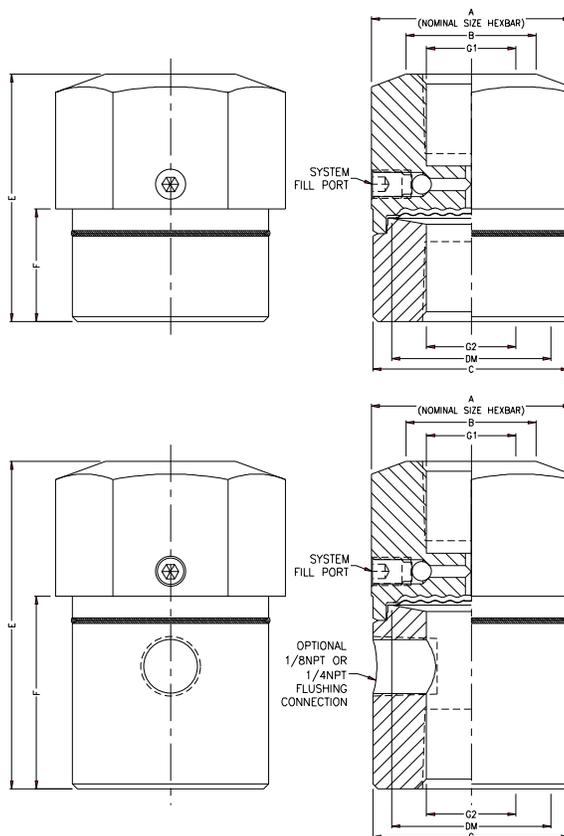
Suitable Pressure Ranges (MWP 2500PSI @100°F)

2 1/2" gauge: 100 PSI to 2500 PSI

4 or 4 1/2" gauge: 400 PSI to 2500 PSI

Available Options

See Selection Guide (over)



DM: EFFECTIVE DIAPHRAGM DIAMETER
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 OR 1/2"NPT	1.63 ACROSS FLATS	1.06	1.60	1.3	2.05	0.95	0.7

DWG.#2211688-5

DM: EFFECTIVE DIAPHRAGM DIAMETER
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 OR 1/2"NPT	1.63 ACROSS FLATS	1.06	1.60	1.3	2.68	1.58	1.0

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Selection Guide – L990.TA

L990.TA,1/4X1/4F,SS,SS-0,SS

Diaphragm Material

SS = 316 stainless steel

MO = Monel® 400 (See note 2)

HC = Hastelloy® C-276

HB = Hastelloy® B-2

CA = Carpenter® 20 (See note 2)

Flushing Connection

0 = None

1 = 1/8" NPT female

2 = 1/4" NPT female (see note 3)

Lower Housing Material

SS = 316 stainless steel

MO = Monel® 400 (See note 2)

HB = Hastelloy® B-2

HC = Hastelloy® C-276

CA = Carpenter® 20 (See note 2)

Upper Housing Material

SS = 316 stainless steel

MO = Monel® 400 (See note 2)

HC = Hastelloy® C-276

CA = Carpenter® 20 (See note 2)

Process Connection

1/4F = 1/4" NPT female

1/2F = 1/2" NPT female

1/8M = 1/8" NPT male

1/4M = 1/4" NPT male

1/2M = 1/2" NPT male

Instrument Connection

1/4 = 1/4" NPT female

1/2 = 1/2" NPT female

Diaphragm Seal Design

L990.TA = Small Diaphragm Design, $d_m=1.3"$ (See note 2) MWP = 2500 PSI

Notes

1. Suitable pressure ranges for 2½" gauges 0-100 PSI to 0-2500 PSI. For 4" and 4-1/2" gauges, minimum pressure range is 0-400 PSI.
2. Upper housing, lower housing and diaphragm must all be Monel®.
3. Available from stock with stainless steel lower housing only.

*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.



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