



# Diaphragm-Type Chemical Seals

## Mini Chemical Seal

Type L990.TA

### Chemical Seals

#### Application

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

#### Design

Upper and lower housing welded with integral diaphragm  
With 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

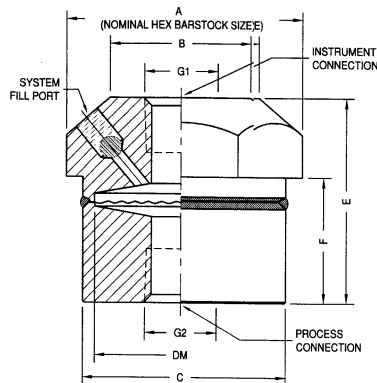
#### Suitable Pressure Ranges (MWP 2500PSI @100°F)

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

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

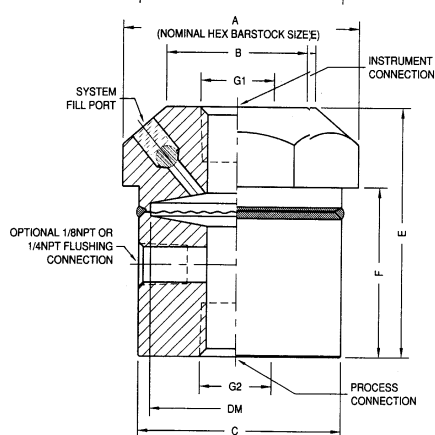
#### Available Options

See Selection Guide (over)



G1	G2	A	B	C	DM	E	F	WEIGHT
		in	in	in	in	in	in	
1/4"NPT OR 1/2"NPT	1/4"NPT OR 1/2"NPT	1.50 ACROSS FLATS	1.06	1.47	1.3	1.52	0.93	0.6

DM: EFFECTIVE DIAPHRAGM DIAMETER  
G1: INSTRUMENT CONNECTION  
G2: PROCESS CONNECTION  
DWG.#2211688-5



G1	G2	A	B	C	DM	E	F	WEIGHT
		in	in	in	in	in	in	
1/4"NPT OR 1/2"NPT	1/4"NPT OR 1/2"NPT	1.50 ACROSS FLATS	1.06	1.47	1.3	1.52	1.68	0.9

DM: EFFECTIVE DIAPHRAGM DIAMETER  
G1: INSTRUMENT CONNECTION  
G2: PROCESS CONNECTION  
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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.

**ACSL990.TA**  
(ACS 99.01.M)

# 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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## 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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