

Diaphragm-Type Diaphragm Seal

Standard Clamped Diaphragm Seal Type L990.TC

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 clamped diaphragm with threaded process connection; requires hydraulic fluid to transmit pressure to instrument

Process Connection

1/4" to 1" NPT-female or 1/4" to 3/4" NPT male

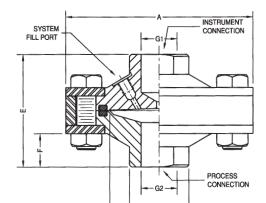
Instrument Connection

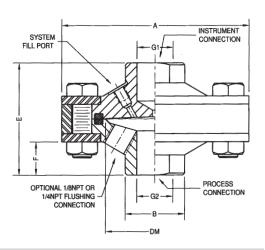
1/4" or 1/2" NPT-female

Suitable Pressure Ranges (MWP 2500PSI @250°F)

15 psi to 2500 psi

Available Options (connections, materials, flushing ports, 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.



G1: INSTRUMENT CONNECTION

G2: PROCESS CONNECTION
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED

G1	G2	А	В	DM	E	F	WEIGHT
							lbs
1/4"NPT OR 1/2"NPT	1/4"NPT OR 1/2"NPT	3.74	1.18	2.1	2.20	0.63	3.0
	3/4"NPT		1.41		2.36	0.79	3.4
	1"NPT		1.77		3.46	1.89	3.6

DWG.#2211777-5

Notes

only.

990.10.506.

990.10.502.

1. Includes previous type

2. Includes previous type

3. Teflon® lower housing

(MWP 200 PSI @ 200°F)

plug.
5. For all welded design

for clamped design only.

7. For titanium diaphragm

titanium upper housing is

9. Standard material for

welded to upper housing, a

(990.10.520) only.

require gaskets.

max.).

available in welded diaphragm

(type 990.10.501) design only.

Available with 1/4" or 1/2" NPT female process connections

4. Customer to supply flushing

6. Viton® diaphragm is available

8. For Teflon® lower housing and

all welded design (990.10.520)

only. All other lower housings

stainless steel and carbon steel

other wetted parts (500°F max.).

temperature applications (752°F

Items in bold are available from

stock (subject to prior sales).

For optional items, consult

factory for current lead-time.

wetted parts is Viton® (400°F max.). Teflon® is standard for all

Silver-plated stainless steel

gasket is used for high

990.TC,1/4X1/4F,CS,CS-0,CS,SS,VI

Gasket Material (See note 8) VI = Viton® BN = Buna "N" TF = Teflon®, virgin NA = None (See note 7)

Diaphragm Material

SS = 316L stainless steel

MO = Monel® 400

HB = Hastelloy® B-2

HC = Hastelloy® C-276

PF = 316 stainless steel, Teflon® coated TF = 316 stainless steel, virgin Teflon® lined

TA = Tantalum

TI = Titanium, grade 2 (See note 6)

NI = Nickel 200

IN = Inconel® 600

IC = Incoloy® 825

CA = Carpenter® 20

VI = Viton® (See note 5)

Clamp & Support Material (Including nuts and bolts)

CS = Carbon Steel, zinc-plated

SS = Stainless steel

NA = None (See note 4)

Flushing Connection (See note 3)

0 = None

1 = 1/8" NPT female

2 = 1/4" NPT female

Lower Housing Material

CS = Carbon steel, nickel-plated

SS = 316 stainless steel

MO = Monel® 400

HB = Hastelloy® B-2

HC = Hastelloy® C-276

TF = Teflon®, virgin (See note 2)

TI = Titanium, grade 2

NI = Nickel 200

IC = Inconel® 800

IC = Incoloy® 825

CA = Carpenter® 20

Upper Housing Material

CS = Carbon steel, nickel-plated

SS = 316 stainless steel

TI = Titanium, grade 2

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

Instrument Connection

1/4 = 1/4" NPT female

1/2 = 1/2" NPT female

Diaphragm Seal Design

990.TC = Clamped Diaphragm (Pressure rating up to 2500PSI, see note 1)

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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