

DIAPHRAGM SEAL WITH THREADED CONNECTION

Diaphragm seals are designed to isolate the sensing element of pressure switches and electronic pressure transmitter from process fluids which may be corrosive, viscous, sedimentous and / or with a high temperature.

The diaphragm, welded for model without intermediate ring and mechanically clamped between the upper housing and intermediate ring for model with intermediate ring, is leak proof tested to guarantee fill fluid separation from process fluid. This diaphragm seal can be cleaned by removing the lower housing.

This construction feature and its compact design suits to many applications requiring frequent maintenance.



Without intermediate ring, with TIG welded diaphragm.

Range: -1...0 / 0... 40 bar.

Process temperature: -45°C...+150°C.

Accuracy: (add to instrument accuracy) $\pm 0,5\%$ for direct mounting; $\pm 1\%$ for capillary mounting.

Instrument connection: Aisi 316L st.st. 1/2" BSP F.

Diaphragm material:

- AISI 316 L st.st.
- Monel400.
- Hastelloy C276.
- Hastelloy 82 .
- Tantalum.
- Nickel.

Gaskets: PTFE up to 250°C; Buna S over 250° C.

Process connection:

- AISI 316 L. st.st.
- AISI 316 L st.st PTFE coated.
- Monel400.
- Hastelloy C276.
- Hastelloy B 2.
- Nickel 201.
- Carbon steel.

Clamp nuts and bolts: en AISI 304 st.st.

Filling liquids: see "FILLING LIQUIDS" table.

Capillary (remote mounting):

- AISI 304 without cover.
- AISI 304 st.st covered with AISI 304 st.st.. armor.
- AISI 304 st.st covered with AISI 304 st.st armor, P.V.C coated.
- AISI 316 st.st covered with AISI 304 st.st armor.

With intermediate ring.

Optional materials for the upper side:

- AISI 316 L. st.st.
- Carbon steel.

Optional materials for the capsule (non welded capsule)

- AISI 316 L st.st PTFE coated.
- Hastelloy C276 PTFE coated.
- Tantalum PTFE coated..
- Titanium.

Gaskets: PTFE up to 250°C; Buna S over 250° C.

Process connection and intermediate ring:

- Carbon steel.
- AISI 316 st.st.
- AISI 316 L st.st.
- AISI 316 L st.st PTFE coated.
- Titanium.

Other characteristics: As without intermediate ring.

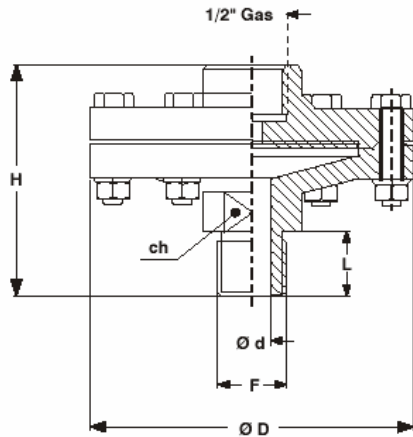
FILLING LIQUIDS

Liquid type	Limit of process temperature
Silicone oil type "A"	-45°C .. +150°C
Silicone oil type "B"	-20°C .. +250°C
Silicone oil type "C"	+20°C .. +340°C
"Fluorolube" type "E"	-60°C .. +150°C
"Fluorolube" type "F"	-20°C .. +250°C
Oil for food industry type "G"	-20°C .. +120°C

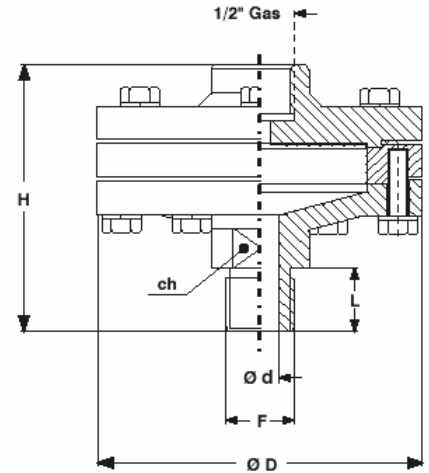
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WITHOUT INTERMEDIATE RING

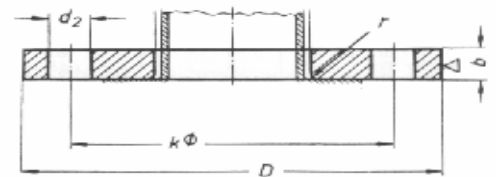
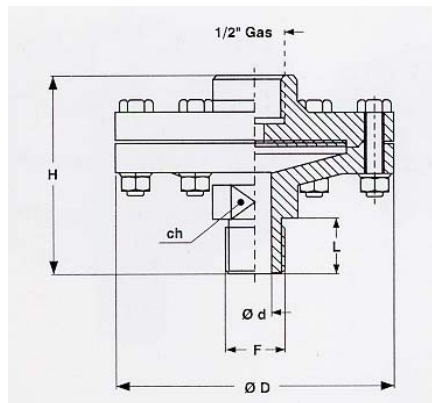


WITH INTERMEDIATE RING

Type	D	d	Ch	H	L
Normal	98	12	25	71	20
Intermediate ring	98	12	25	84,5	20

F = 1/2" GAS or NPT M

MODEL WITH ST.ST. LOWER SIDE



Type	D	k	d2	b	H	d
mixt	100	98			76	8
flanged	100	79	6,5	9		

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