



Diaphragm seals are designed to isolate the sensing element of pressure gauges, pressure switches and electronic pressure transmitters from process liquids which may be corrosive, viscous, sedimentous and / or with a high temperature. The diaphragm welded to the upper body and leak proof tested, ensure separation of filling fluid from process medium. Diaphragm faced position permit an accurate and deeper cleaning. Process sizes are ANSI / UNI / DIN flanged to suit application in pharmaceutical, chemical, petrochemical, water treatment, paper and food process industries.

Functional and constructive characteristics

Ranges: 0...100 mbar / 0...160 bar.

Process temperature: -45°C...150°C.

Instrument connection: AISI304 st.st. capillary, to be welded on the instrument.

Diaphragm: AISI316L st.st.

AISI 316 st.st. flanged connection:

ANSI B16.5: 2" - 3"; 150 ⇒ 2500 RF; finishing 125 ⇒ 250 AARH;

UNI: DN50-80; PN10 ⇒ 160 UNI2229 step; finishing Ra 12,5 μm max.

DIN: DN50-80; PN10 ⇒ 160 DIN2526 form C; finishing Ra 63 μm max.

Filling liquid: silicone oil type "A".

Capillary (remote mounting): AISI304 st.st. Ø3x1 or AISI304 st.st. covered with AISI304 st.st. armour Ø6 (max. length 6 mt.).

Special versions

High temperature version: up to 340°C with silicone oil type "C" (option E10).

Instrument connection: AISI304 st.st. threaded 1/4" NPTM.

Diaphragm: Hastelloy C276, Hastelloy B2

Process connection material: AISI316L st.st., Hastelloy C276, Hastelloy B2.

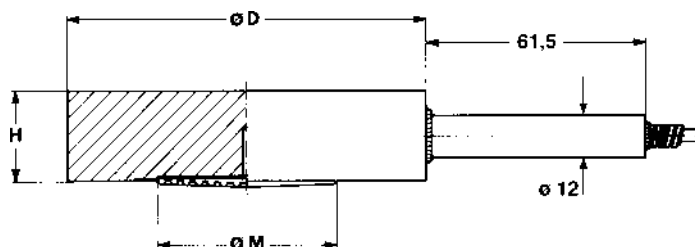
Filling liquids special filling liquids are available for special process conditions (see table FILLING LIQUIDS).

Capillary (remote mounting): AISI316 st.st. covered with AISI304 st.st. armour Ø6; AISI304 st.st. armour Ø6, PVC coated.

FILLING LIQUIDS

Liquid type	Limit of process temperature
Silicone oil type "A"	-45...+150°C
Silicone oil type "B"	-20...+250°C
Silicone oil type "C"	+20...+340°C
"Fluorolube"	-60...+150°C

DIAPHRAGM SEAL TYPE 04.WAF : DIMENSIONS



FLANGED CONNECTION AS PER DIN

DN	PN-bar (1)	Code	D	M	H
50	16÷160	TZG	102	50	20
80	16÷160	VZG	138	74	20

(1) suitable for 150% of flange rating at 20÷30°C and 100% of flange rating at 340°C.

FLANGED CONNECTION AS PER ANSI B16.5

DN	PN-psi (1)	Code	D	M	H
2"	150÷2500	BGA	92,1	50	20
3"	150÷2500	EGA	127	74	20

(1) suitable for 150% of flange rating at 20÷30°C and 100% of flange rating at 340°C.

HOW TO ORDER

04	04 - diaphragm seals
WAF	WAF - "wafer" connection
6	Process connection material 4 - AISI316st.st. 5 - AISI316Lst.st. 1 - HASTELLOY B2 9 - HASTELLOY C276
1	Diaphragm material 4 - AISI316Lst.st. 1 - HASTELLOY B2 9 - HASTELLOY C276
23M	Instrument connection 23M - 1/4" NPTM 41F - 1/2" BSPF
TZG	Process connection see table to code
9	Capillary type see capillary type table
2000	capillary length (mm.)
RF1	Connection shape and finishing RF1 - step seal - UNI2229 - Ra 12,5µm RF2 - step seal - DIN2656 C - Rz 63µm RF3 - step seal - ANSIB16.5- AARRH 125...250µinches

REMOTE CONNECTION

CAPILLARY TYPE - max. length 6mt.

CAPILLARY	CODE
AISI304st.st.	1
AISI316st.st. covered with AISI304st.st. armour	4
AISI304st.st. covered with AISI304st.st. armour, PVC coated	5
In AISI304st.st. covered with AISI304st.st. armour	9

N.B.
 All diaphragm seals are mounted on the instruments and fixed by an aluminium protection label. For applications with capillary: should diaphragm seal and instrument not be at a same level, instrument on installation is required. (For use and installation, see data sheet "Introduction to diaphragm seal").

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