

back side diaphragm seals, with threaded connection

04.111



Diaphragm seals are designed to isolate the sensing element of pressure gauges, pressure switches and electronic pressure transmitter from process fluids which may be corrosive, viscous, sedimentous and / or with a high temperature. The diaphragm is welded to the top housing and leak proof tested, to guarantee a separation between process fluid and fill transmission fluid. The upper part is detachable from the lower process side for cleaning. This construction feature and its compact design suits many application that require frequent maintenance.

Functional and constructive characteristics.

Ranges: 0/6...0/250 bar.

Process temperature: -45°C...+150°C.

Accuracy*: (add to instrument accuracy) ±0,5% for direct mounting;
±1% for capillary mounting.

Instrument connection: AISI316 st. st. 1/2" BSPF.

Diaphragm: AISI316 L st. st., welded.

Process connection: AISI316 st. st. 1/2" NPTMANSIB1.20.1. or 1/2" BSPM.

Filling liquid: silicone oil type "A".

Nut: AISI304 st. st.

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

Special versions

Diaphragm: Hastelloy C276, welded.

Process connection: 1/2" NPTF; 3/4" NPTF; 1" NPTF; (available upon request).

Filling fluids: special filling fluids 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. covered with AISI304 st. st. armour Ø6, PVC coated.

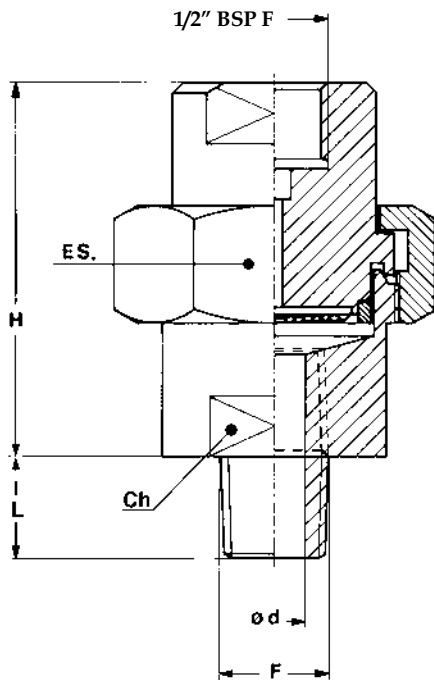
Pulsating pressure protection: (option C08) available for ranges over 40 bar where frequent and rapid pressure change are measured. The inner snubber, capillary type, slows the response speed.

FILLING LIQUIDS

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

*at 20°C process temperature (or state temperature when ordering)

DIMENSIONS (mm.)



F	Code	d	H	L	ES.	Ch
1/2" BSPM	41M	12	74	20	55	36
1/2" NPTM	43M	12	74	20	55	36
1/2" NPTF	43F	-	74	-	55	36
3/4" NPTF	53F	-	74	-	55	36
1" NPTF	63F	-	76,5	-	55	40

REMOTE MOUNTING

CAPILLARY TYPE - max. length 6mt.

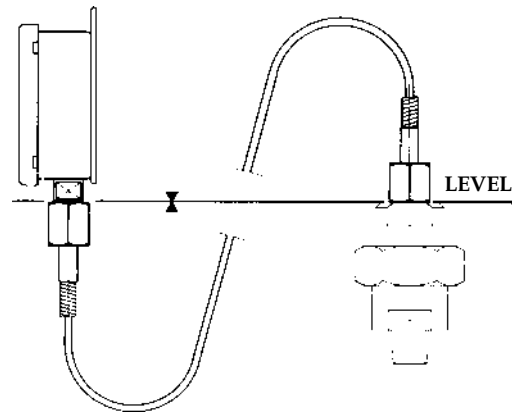
CAPILLARY TYPE	CODE
AISI304 st.st.	1
AISI316 st.st. covered with AISI304 st.st. armour	4
AISI316 st.st. covered with AISI304 st.st. armour, PVC coated	5
AISI304 st.st. covered with AISI304 st.st. armour	9

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 "04").

HOW TO ORDER

	DESCRIPTION & CODE
04	04-diaphragm seals
111	111-backside welded diaphragm
4	Process connection material 4-AISI316st.st.
4	Diaphragm material 4-AISI316Lst.st. 9-HASTELLOY C276
43F	Process connection 41M-1/2" BSPM 43M-1/2" NPTM 43F-1/2" NPTF 53F-3/4" NPTF 63F-1" NPTF
41F	Instrument connection 41F-1/2" BSPF
9	Capillary type 0-without capillary see capillary type table
1000	capillary length (mm.)
R15	see options table



OPTIONS

Description	Code
Helium Test	C05
Internal capillary 500 mm. (Pulsating pressure protection)	C08
Dye penetrant test (welded parts)	P04
"Fluorolube" filling	R15
AISI adaptor 1/2" BSPM x 1/2" BSPF	R20
AISI adaptor 1/2" BSPM x 1/4" NPTM	R21
Without bottom housing	S10
Without instrument, alone	S20



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