



Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids which may be corrosive, viscous, sedimentous and/or with a high temperature. The diaphragm is welded to the upper body, to ensure separation of filling fluid from process medium. The "in-line" diaphragm position enables deep cleaning of their surfaces. Flange clamping with metallic sealing guarantees the system against leakage at high process fluid temperatures and pressures.

4.R00 - MGS9/R

Working pressure: from 0...100 to 0...3000 psi (from 0...6 to 0...250 bar).

Process temperature: -49...+302°F (-45°C...+150°C.)

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

Instrument connection: AISI 316 st.st.

Bolts and lock ring: AISI 304 st.st.

Diaphragm: welded to process connection,

4 - AISI 316 L st.st,

9 - Hastelloy C276.

Process connection:

4 - AISI 316 st.st.,

5 - AISI 316L st.st.

Process connection, welded type:

7RC - saddle, for pipe size DN 2"...4";

7MS - "in line", for pipe size 1/2"...1";

7MT - "in line", for pipe size 1" 1/2"...4".

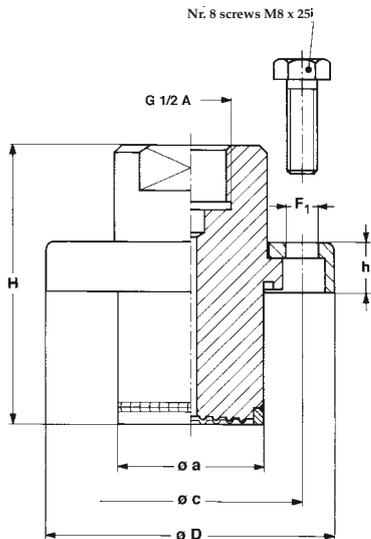
Process connection, flanged type: (Mod. 7FL)

- "in line", for flange size 1"1/2 - 2" ; 150...900 RF;

- "in line", for flange size DN 40...50, PN 10...100 step seal.

Filling liquid: silicon oil.

* at 68°F (20 °C) process temperature (or state temperature when ordering)



h	H	a	c	D	F ₁
0.51"	2.91"	1.49"	2.28"	2.95"	0.33"
(13)	(74)	(38)	(58)	(75)	(8,5)

dimensions : inches (mm)

ASSEMBLING

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 the same level, instrument adjustment is required.

D - Direct
T - Cooling extension
1 - Nude capillary AISI304, 236" max (6 mt max)
9 - Capillary AISI304 st.st., covered with AISI304 armour, 236" max (6 mt max)
6 - Capillary AISI316 st.st., covered with AISI316 st.st. armour, 236" max (6 mt max)

OPTIONS

B - Silicon liquid "B" for process fluid temperature from -40°F to +482°F (from -40°C to +250°C)
C - Silicon liquid "C" for process fluid temperature from -14°F to +662°F (from -10°C to +350°C)
E - Fluorinated liquid "E" for process fluid temperature from -40°F to +302°F (from -40°C to +150°C)
C05 - Helium Test
P04 - Dye penetrant test

"HOW TO ORDER" SEQUENCE

Section/Model/Connection material/Diaphragm material/Process Connection/Instrument connection/Assembling/Options

4 R00 4,5 4,9 --- 41F - G 1/2 F D, T B, C, E
1, 9, 6 C05, P04