"continuous duty" diaphragm seal, welded, with threaded connection

MGS9/2B

- ✓ Special overpressure max 210 bar
- ✓ Welded diaphragm
- 🗸 Filling plug
- ✓ Washing plug



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. In case of accidental removal of the instrument or of liquid filling leak the diaphragm will place on the upper cup preventing any damage and any process liquid leak. Thanks to an exclusive calibration system the pressure gauge should stand an overpressure of 210bar without the help of any pressure control switch.

4.2B0 - MGS9/2B

Design: ASME B40.2

Working pressure: *from -30...0 INHG to 0...2320 psi* (from -1...0 to 0...160 bar).

"Continuous duty": 3000 psi (210 bar) as per ASME B40.2.

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

Accuracy (1): (add to instrument accuracy) $\pm 0.5\%$ for direct mounting,

 $\pm 1\%$ for capillary mounting.

Instrument connection: AISI 304 st.st.

Diaphragm material:

- 4 AISI 316L st.st.,
- 6 Monel 400,
- 9 Hastelloy C 276,
- **B** Tantalum,
- **J** Alloy 600;
- I Alloy 825;

U - 25.22.2.

Gaskets: PTFE up to +482°F (+250°C).

Process connection:

- **5 -** AISI 316L st.st.
- **6 -** Monel 400
- 9 Hastelloy C 276.

Clamp nuts and bolts: high resistance steel.

Filling liquids: Silicon oil.

Special overpressure: 3000 psi for 1 hour (210 bar) (2) (3).

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

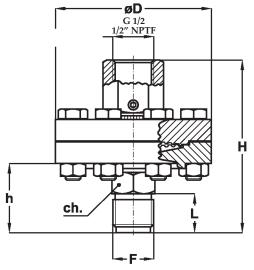
- (2) on request only, pressure gauge/pressure switch assembling only
- (3) Vacuum and compound gauges excluded

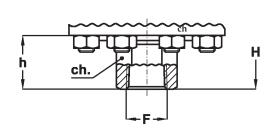






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F	D	ch	Н	h	L	Weight
41M - G 1/2 B	3.15"	0.87"	3.54"	2.79"	0.79"	2.36 lbs
43M - 1/2 NPT	(80)	(22)	(90)	(35,5)	(20)	(1,070 kg)

F	D	ch	Н	h	Weight
43F	3.15"	1.06"	3.23"	1.08"	2.34 lbs
1/2 NPT F	(80)	(27)	(82)	(27,5)	(1,060 kg)

dimensions: inches (mm)

dimensions: inches (mm)

ASSEMBLING

All diaphragm seals are mounted on the instruments ad fixed by an aluminium protection label. For applications with capillary: shoul diaphragm seal and instrument not be at the same level, instrument adjustment is required. (For use and installation, see data sheet "MGS9")

- **D** Direct
- **T** Cooling extension T.e. $\geq 212^{\circ}F$ (100°C)
- **1 -** Capillary AISI304 st.st., 236" max (6 mt max)
- 9 Capillary AISI304 st.st., covered with AISI304 st.st. 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 -4°F to +482°F (from -20°C to +250°C)
- C Silicon liquid "C" for process fluid temperature from -20°F to +644°F (from -5°C to +340°C)
- **E** Fluorinated liquid "E" for process fluid temperature from -76°F to +302°F (from -60°C +150°C)
- C05 Helium Test (1)
- **E30 -** Nace version MR0103/MR0175 (ISO 15156) (2)
- TS5 AISI316L stainless steel washing plug, 1/4" NPT
- **P04** Dye penetrant test
- **BAI** Stainless steel fixing bolts (5)
- **S40 -** Max overpressure 3000 psi (210 bar) (3) (4)
- MPP PTFE diaphragm protection, for temperature up to 302 °F (150 °C) (3)
 - Special process connections (1): 1/4" NPTF; 3/4" NPTF; 3/4 NPTM
- (1) on models with AISI316L process connection only
- (2) Stainless steel process connection and Monel 400 or Hastelloy C276 diaphragm
- (3) Except for vacuum and compound gauges
- (4) for pressure gauge/pressure switch assembling only
- (5) max 100 bar

"HOW TO ORDER" SEQUENCE

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

- 4 2B0
- 5 6
- 4, 6, 9 B, J, I
- 41M 43M 43F
- 41F G 1/2 F 43F - 1/2NPT F
- D, T 1, 9, 6
- B...MPP

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