

# plastic diaphragm seal, with threaded connection

# MGS9/P



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. An elastic diaphragm, mechanically clamped, fitted to a leak proof check, guarantees the separation of the process fluid from the transmission fill fluid. The corrosion is prevented by the assembling without bolts and nuts. Typical applications are: galvanic and water treatments, irrigation, electronic boards production.

#### 4.P10 - MGS9/P10 - for pressure gauges $\geq$ DN 4" (100mm)

**Working pressure and temperature:** see table below.

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

**Instrument connection:** G 1/2.

**Process connection:** G 1/2, 1/2" NPT F.

**Body Material :**

**V** - PVC.

**Diaphragm material :**

**A** - PTFE.

**Filling liquid:** silicon oil.

#### 4.P63 - MGS9/P63 - for pressure gauges DN 2.5" (63mm)

**Working pressure and temperature:** see table below.

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

**Instrument connection:** G 1/4.

**Process connection:** G 1/4, 1/4" NPT F.

**Body Material :**

**V** - PVC.

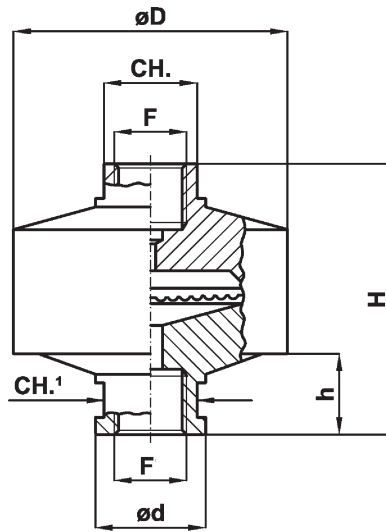
**Diaphragm material :**

**A** - PTFE.

**Filling liquid:** silicon oil.

Process fluid temperature		
68 °F	104 °F	140 °F
(20 °C)	(40 °C)	(60 °C)
150 psi	75 psi	15 psi
(10 bar)	(5 bar)	(1 bar)

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



Model	F	D	d	H	h	CH <sub>1</sub>	CH
P10	41F - G 1/2	3.13 (79,5)	1.26 (32)	3.09 (78,5)	0.93 (23,5)	1.06 (27)	1.06 (27)
	43F - 1/2-14 NPT F						
P63	21F - G 1/4	2.34 (59,5)	0.98 (25)	2.54 (64,5)	0.77 (19,5)	0.87 (22)	0.67 (17)
	23F - 1/4-18 NPT F						

dimensions : inches (mm)

## ASSEMBLING

**D** - Direct to instrument. All diaphragm seals are mounted on the instruments and fixed by an aluminium protection label.

## OPTIONS

Model	MGS9/P10	MGS9/P63
<b>E</b> - Fluorinated liquid "E" for process fluid temperature from -76°F to +302°F (from -60°C +150°C)	◆	◆
<b>G</b> - Food oil "G" for process fluid temperature from +50°F to +248°F (+10°C a + 120°C)	◆	◆

## "HOW TO ORDER" SEQUENCE

Section/Model/Connection material/Diaphragm material/Process	Connection/Instrument connection/Assembling/Options
4 P00 V A	41F 41F - G 1/2 F D E, G
	43F 21F - G 1/4 F
	21F
	23F