

## COMPACT DIAPHRAGM SEALS, WELDED



Diaphragm seals are designed to isolate the sensing element of pressure gauges and pressure switches from process fluids that may be corrosive, viscous, sedimentous and / or with high temperature. The diaphragm is welded to the body, to ensure separation of the filling fluid from process medium. The threaded connection make it easy to use on all applications where the reduced size of the system is important and also where gauges of 2.5" (63 mm) diameter are required.

### MGS9/MIA

**Working pressure:** from 0...1.500 to 0...6.000 PSI (from 0...100 to 0...400 bar) as from RANGES table.

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

**Accuracy(1):** (add to instrument accuracy.)  $\pm 1.0\%$  for direct mounting,  $\pm 1.0\%$  for capillary mounting.

**Instrument connection:** AISI 316 st. st.

**Filling liquid:** silicon oil.

### MGS9/MIM

**Working pressure:** from 0...100 to 0...1.000 PSI (from 0...6 to 0...60 bar) as from RANGES table.

**Other features:** as model MGS9 / MIA

### MGS9/MIB

**Working pressure:** from -30...0 InHG to 0.1000 PSI (from -1...0 to 0...60 bar) as from RANGES table.

**Other features:** as model MGS9 / MIA

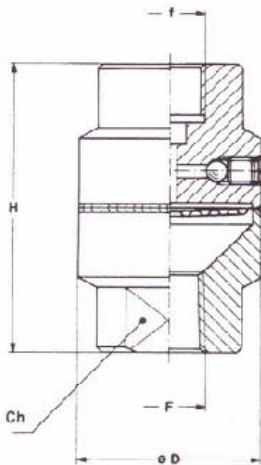
### SCALES

Gauge DS	MGS9/MIA	MGS9/MIM	MGS9/MIB
2.5" 63 mm	0...1500/0...6000 PSI (0...100/0...400 bar)	0...100/0...1000 PSI. (0...6/0...60 bar)	-1...0/0...60 bar
4" 100 mm		0...160/0...1000 PSI (0...10/0.0060 bar)	0...15/0...1000 PSI (0...1/0...60 bar)
6" 150 mm			

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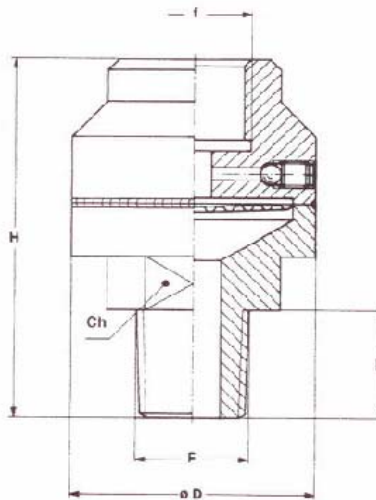
**MGS9/MIA**

f
G ¼ A
¼-18 NPT



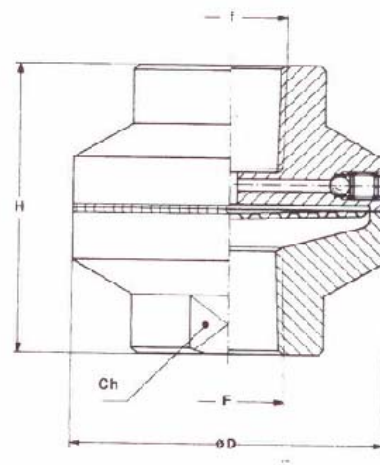
**MGS9/MIM**

f
G ¼ A
G ½ A
¼-18 NPT



**MGS9/MIB**

F
G ¼ A
½-14 NPT
G ¼ A
¼-18 NPT



F (1)	D	H	Ch	L
¼-18 NPT M	1.33" (34)	2.12" (54)	0.86" (22)	--

(1) Other threads available on request  
dimensions: inches (mm)

F (1)	D	H	Ch	L
¼-18 NPT H	1.73" (44)	2.12" (54)	1.06" (27)	--
½-14 NPT M	1.73" (44)	2.63" (67)	1.06" (27)	0.78" (20)
½-14 NPT H	1.73" (44)	2.12" (54)	1.06" (27)	--
GAS ½ A M	1.73" (44)	2.63" (67)	1.06" (27)	0.78" (20)

(1) Other threads available on request  
dimensions: inches (mm)

F (1)	D	H	Ch	L
¼-18 NPT H	2.24" (57)	2.91" (74)	1.25" (32)	--
½-14 NPT H	2.24" (57)	2.91" (74)	1.25" (32)	0.78" (20)
½-14 NPT H	2.24" (57)	2.91" (74)	1.25" (32)	--
GAS ½ A M	2.24" (57)	2.91" (74)	1.25" (32)	0.78" (20)

(1) Other threads available on request  
dimensions: inches (mm)

**ASSEMBLING**

All diaphragm seals are mounted on the instruments ad fixed by an aluminium label

Direct
Cooling extension

**OPTIONS**

<b>DESCRIPTION</b>
Helium test.
Vacuum execution
Dye penetrant test

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