



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 a high temperature. The diaphragm is welded to the body, to ensure separation of the filling fluid from the 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 63 mm. diameter are required.

Instrument DS	MIA	MIM	MIB
63	0...100/0...400bar	0...6/0...60bar	-1...0/0...60bar
100	0...100/0...400bar	0...6/0...60bar	(*)-1...0/0...60bar
150	0...100/0...400bar	0...10/0...60bar	0...1,6/0...60bar

(*)For pressure ranges from -1...0bar to -1...+3bar only, to be ordered with option MVM.

Functional and constructive characteristics

MIA

Process temperature: -45...+150°C.
Accuracy(1): (add to instrument accuracy) ±1,0% only for direct mounting.
Instrument connection: AISI316 st.st. 1/4" BSPF, with ball and setscrew threaded M5 for filling.
Diaphragm: AISI316 L st.st., welded.
Process connection: AISI316 st.st., 1/4" NPTF, 1/4" BSPM.
Filling liquid: silicone oil type "A".

MIM

Process temperature: -45...+150°C.
Accuracy(1): (add to instrument accuracy) ±1,0% only for direct mounting.
Instrument connection: AISI316 st.st. 1/4" BSPF, with ball and setscrew threaded M5 for filling.
Diaphragm: AISI316 L st.st., welded.
Process connection: AISI316 st.st., 1/2" BSPM.
Filling liquid: silicone oil type "A".

MIB

Process temperature: -45...+150°C.
Accuracy(1): (add to instrument accuracy) ±1,0% only for direct mounting.
Instrument connection: AISI316 st.st. 1/4" BSPF, with ball and setscrew threaded M5 for filling.
Diaphragm: AISI316 L st.st., welded.
Process connection: AISI316 st.st., 1/2" NPTF.
Filling liquid: silicone oil type "A".

Special Version

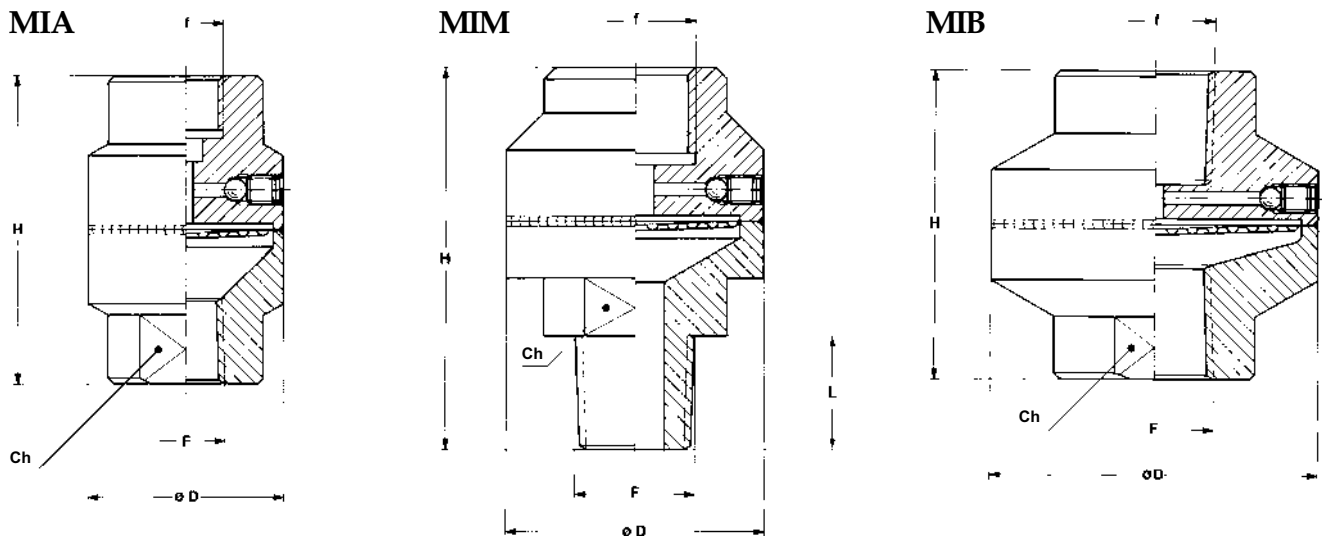
Instrument connection: AISI316 st.st. 1/4" NPTF.

Instrument connection: AISI316 st.st. 1/4" NPTF, 1/4" BSPF.
Process connection: AISI316 st.st., 1/4" NPTF, 1/2" NPTM/F.

Instrument connection: AISI316 st.st. 1/4" NPTF, 1/2" NPTF, 1/4" BSPF.
Process connection: AISI316 st.st. 1/4" NPTF, 1/2" BSPM, 1/2" NPTM.

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

TYPES AND DIMENSIONS (mm.)



f= instruments connection as per "Functional and constructive characteristics", page 1.

F (1)	Code	D	H	Ch	L
1/4" NPTF	23F	34	54	22	-

(1) other threads available on request.

F (1)	Code	D	H	Ch	L
1/4" NPTF	23F	44	54	27	-
1/2" NPTM	43M	44	67	27	20
1/2" NPTF	43F	44	54	27	-
1/2" GasM	41M	44	67	27	20

(1) other threads available on request.

F (1)	Code	D	H	Ch	L
1/4" NPTF	23F	57	54	32	-
1/2" NPTM	43M	57	74	32	20
1/2" NPTF	43F	57	54	32	-
1/2" GASM	41M	57	74	32	20

(1) other threads available on request.

HOW TO ORDER

CODE & DESCRIPTION	
04	04- diaphragm seals
MIA	MIA - high pressure
MIM	MIM - medium pressure
MIB	MIB - low pressure
4	Process connection material 4- AISI316st.st.
4	Diaphragm material 4- AISI316Lst.st.
43F	Process connection 23F - 1/4" NPTF 21M - 1/4" BSPM 43F - 1/2" NPTF 43M - 1/2" NPTM 41M - 1/2" BSPM
41F	Instrument connection 21F - 1/4" BSPF 23F - 1/4" NPTF (1) 41F - 1/2" BSPF 43F - 1/2" NPTF (1)
R15	see options table

(1) Supply without instruments.

OPTIONS

DESCRIPTION	CODE
Helium Test	C05
Membrana per vuoto e manovuoto, per mod. 04.MIB	MVM
Dye penetrant test	P04
"Fluorolube" type "E" filling	R15
Oil type "G" filling, for food industry	R16
AISI adaptor 1/2" BSPM x 1/4" NPTM	R21
Without instrument, alone	S20



DRUCK & TEMPERATUR Leitenberger GmbH
Postfach 64 • D-72136 Kirchentellinsfurt • Germany
Tel.: 071 21 - 90920 - 0 • Fax: 071 21 - 90920 - 99
E-Mail: dt-info@leitenberger.de
INTERNET-Site: http://www.leitenberger.de