

PTFE MDM 118 PRESSURE GAUGE DIAPHRAGM SEAL

FEATURES

The MDM 118 PTFE plastic diaphragm seal is designed for equipping pressure gauges, pressure transmitters and pressure switches which cannot be directly mounted in contact with a corrosive, viscous or crystallising liquid for which they measure the pressure. The MDM 118 model with PN16 flange connection is removable and thus easy to service.

LIMITS OF USE

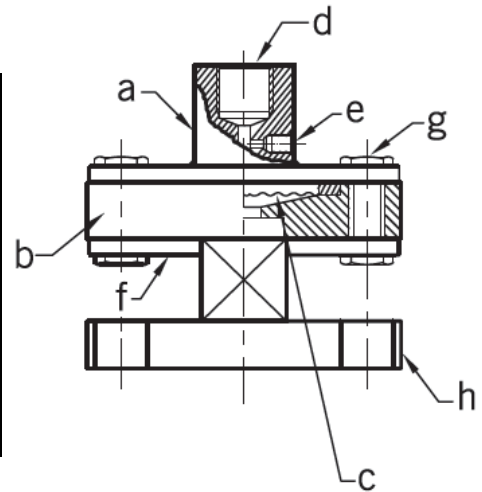
Fluid WP:	-1 bar to 10 bar
Fluid WT° (outside filling liquid):	0°C / +120°C

connection		Ø membrane (mm)
pressure gauge	process	
G 1/4"	DN15 / PN16	75
G 1/2"	DN15 / PN16	75



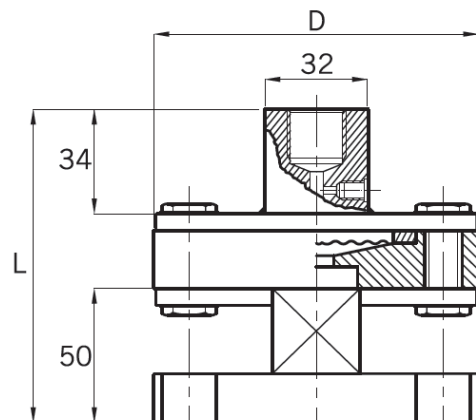
CONSTRUCTION

No.	Name	Material
a	Upper body	AISI 316 SS
b	Lower body	PTFE
c	Diaphragm	PTFE -coated AISI 316 L stainless steel
d	Instrument fitting	n.a.
e	Filling orifice	n.a.
f	Bearing ring	AISI 316 SS
g	Bolt	Stainless steel
h	F	PTFE



DIMENSIONS (mm) AND CONNECTIONS

	Membrane size
Ø	75
D	100
L	DN15
Bolt	Flat wrench



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HOW TO CHOOSE A SEPARATOR

1. The diaphragm seal has to be chosen depending upon the process conditions (type of fluid, pressure, temperature, etc.) and upon the volume of the measuring device to protect.
2. The filling liquid has to be chosen depending upon the process conditions (type of fluid, pressure, temperature, etc.), upon the material of the measuring device to protect, and upon the type of application (standard or food-related).
3. The liquid used must not contain gas.

FILLING INSTRUCTIONS

1. Mount the pressure gauge onto the diaphragm seal using a suitable gasket to prevent leakage.
2. Bring the system chamber to vacuum by using the filling orifice reference mark (e).
3. Fill the chamber with the filling liquid chosen.
4. To provide optimum filling, push with compressed air (maximum 0.5 bar).
5. During the filling phase, it is important to balance the pressure on each side of the membrane to prevent its deformation.
6. Close the filling orifice (e).
7. Check that the liquid is not under pressure. If this is the case, release a little bit of pressure by loosening the filling screw.
8. Check the membrane flatness.

INSTRUCTIONS FOR INSTALLING THE SYSTEM

1. Connect the diaphragm seal-pressure gauge system to the process. To tighten the flange model, use a flat wrench and tighten the bolts. Use a gasket to prevent leakage between the diaphragm seal gasket connection and the process.
2. Diaphragm seals do not need servicing.
3. The diaphragm seal must not leak. If a leakage occurs, the pressure measurement will be wrong.
4. Pressure gauges lose one class of accuracy when mounted on a diaphragm seal.

