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Diaphragm seal Z700 · Z701

Z700 · Z701

FRANK
PREMIUM-QUALITY PLASTIC

Diaphragm seal Z 700 · Z 701

Diaphragm-protected


Z 700 PVDF


Z 700 PP


Z 700 PVC


Z 701 PVDF


Z 701 PP


Z 701 PVC

USE

The diaphragm-protected pressure gauge is used to measure the pressure of neutral and aggressive media. The pressure gauge is separated from the medium by an EPDM/PTFE-coated diaphragm. The pressure is transmitted via a buffer fluid. The large diaphragm surface and the low compressibility of the buffer fluid allows for a more accurate display. The variety of possible materials covers a wide range of applications.

SPECIAL FEATURES

- All parts that come into contact with the medium are made of highly-resistant plastics
- The pressure gauge does not come into contact with the medium
- The pressure gauge is maintenance-free and can be installed in any position
- The large diaphragm area provides for high accuracy

TECHNICAL DATA

Available materials	Pressure gauge housing in PVC, PP, PVDF Diaphragm EPDM/PTFE coated, other materials on request
Perm. operating temperature	PVC 0 to +60 °C PP -10 to +80 °C PVDF -20 to +100 °C
Max. operating pressure	PN 10 to 20 °C
Pressure gauge connections	R 1/4", R 1/2"
Connection spigot	d 25 for pressure gauge connection R 1/4" d 32 for pressure gauge connection R 1/2"
Pressure gauge ranges	Standard 0-10 bar with R 1/4" ø 63 mm with R 1/2" ø 100 mm others on request
Accuracy	Standard Class 2.5

INDIVIDUAL PARTS

Pos.	Designation
1	Lower body
2	Upper body
3	Diaphragm
4	Pressure gauge seal
5	Pressure gauge
6	Hexagonal cap
7	Hexagonal screw complete with washer and nut

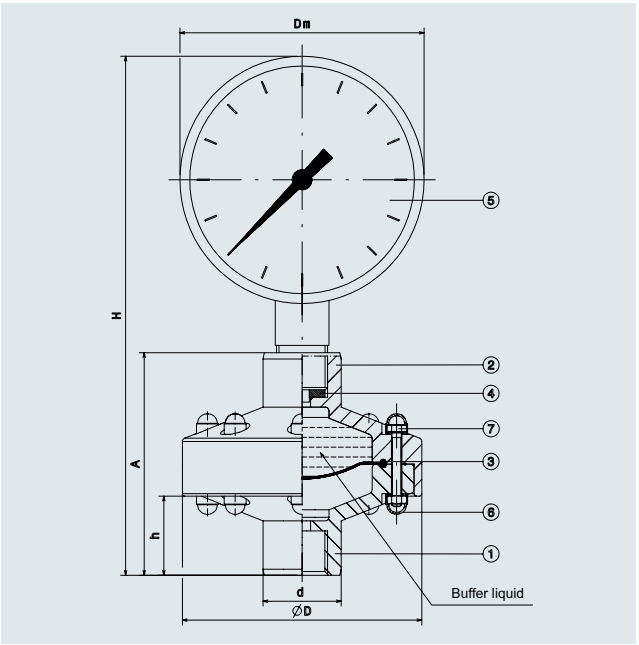
We reserve the right to make changes.

Filling the buffer fluid

- Upper body (item 2) of the pressure gauge Z 700/Z 701-fill preferably with Glysantine or with water up to the lower edge of the thread.
- Move the diaphragm from below using a blunt object until no more air bubbles appear
- Screw in the pressure gauge. If the pressure gauge already displays a low pressure, some buffer fluid must be removed until there is no longer any displayed

Note on installation

We recommend installing the pressure gauge with a screw connection and a shut-off device. This ensures that the pressure gauge can also be brought into the desired read-off position later on and that easy replacement is possible in the event of a fault.
All readily available pressure gauge variations can generally be installed.



DIMENSIONS IN MM (GUIDELINE VALUES)

Connection	d	ø D	A	Dm	h	H
R 1/4"	25	72	71	63	15	129
R 1/2"	32	100	90	100	22	210

AVAILABLE PRESSURE GAUGE -DISPLAY RANGES

0 to 1 bar	0 to 2.5 bar	0 to 6 bar
0 to 1.6 bar	0 to 4 bar	0 to 10 bar

DIAPHRAGM SEAL Z 700

Connection d		Pressure gauge bar	PVC-U Diaphragm EPDM/PTFE Article No.	PP Diaphragm EPDM/PTFE Article No.	PVDF Diaphragm EPDM/PTFE Article No.
25	1/4"	0-10	17.000.330	17.000.335	17.000.338
25	1/4"	0-2.5	17.005.670	17.005.672	17.005.674
25	1/4"	0-4	17.005.676	17.005.678	17.005.688
25	1/4"	0-6	17.003.668	17.003.670	17.003.672
32	1/2"	0-10	17.000.341	17.000.346	17.000.347
32	1/2"	0-2.5	17.005.671	17.005.673	17.005.675
32	1/2"	0-4	17.005.677	17.005.679	17.005.689
32	1/2"	0-6	17.003.669	17.003.671	17.003.673

DIAPHRAGM SEAL Z 701 (WITHOUT PRESSURE GAUGE)

Connection d		PVC-U Diaphragm EPDM/PTFE Article No.	PP Diaphragm EPDM/PTFE Article No.	PVDF DiaphragmEPDM/PTFE Article No.
25	1/4"	17.000.329	17.000.333	17.000.336
32	1/2"	17.000.343	17.000.344	17.000.348

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