

FACTS | FIGURES | DATA

Diaphragm pressure gauge guard Z800 · Z801

Z800 · Z801



Technische Änderungen vorbehalten. - *Construction data remain subject to change.*
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Diaphragm pressure gauge guard Z800 · Z801

diaphragm protected



Z800 PP



Z800 PVC



Z800 PVDF



Z801 PP



Z801 PVC



Z801 PVDF

APPLICATION

The diaphragm pressure gauge guard is applicable to measure pressure of neutral and aggressive media. The pressure gauge is separated from the medium by a TFM-overlaid EPDM diaphragm. Pressure will be transmitted by a buffer fluid. The large diaphragm surface and the incompressibility of the buffer fluid allows an high accurate pressure transmission. The variety of possible materials covers a wide range of applications.

SPECIAL FEATURES

- All medium wetted parts are made of high resistant plastic
- Pressure gauge does not has contact with the medium
- Pressure guard is maintenance-free
- Variable installation position
- Large size diaphragm surface provides high accuracy
- The unique coupling nut design impedes any torsion on the diaphragm that guarantees an high precisely pressure transmission
- The new design assures an uniform sealing pressure on the diaphragm
- Various connecting options are available by changing of the base part

TECHNICAL DATA

| | |
|-------------------------|---|
| Available materials | upper part and union nut in PP GF30 lower part in PP, PVC, PVDF |
| Buffer fluid | diaphragm EPDM/TFM coated glysantine or distilled water |
| Max. operating temp. | PN 10 by 20°C (145psig by 68°F) |
| Pressure gauge connects | G 1/4" and G 1/2" |
| Connection spigot | female thread G, 1/4" / 1/2" PP, PVC, PVDF female thread NPT, 1/4" / 1/2" PP, PVC, PVDF bonded nozzle d25 / d32 in PVC IR-welded hexagon nipple d25 / d32 PP, PVDF |
| Pressure gauge range | Standard 0-10 bar eff. (0 – 145 psig) with R 1/4" Ø63 mm (2-3/8") with R 1/2" Ø100 mm, (4") others on request |
| Accuracy | Standard class 1,6 |

PART LIST

| Item | Description |
|------|-------------------------------|
| 1 | Lower part (PP, PVC and PVDF) |
| 2 | Union nut |
| 3 | EPDM/TFM coated diaphragm |
| 4 | Upper part |
| 5 | Pressure gauge sealing |
| 6 | Pressure gauge |

We reserve the right to make changes

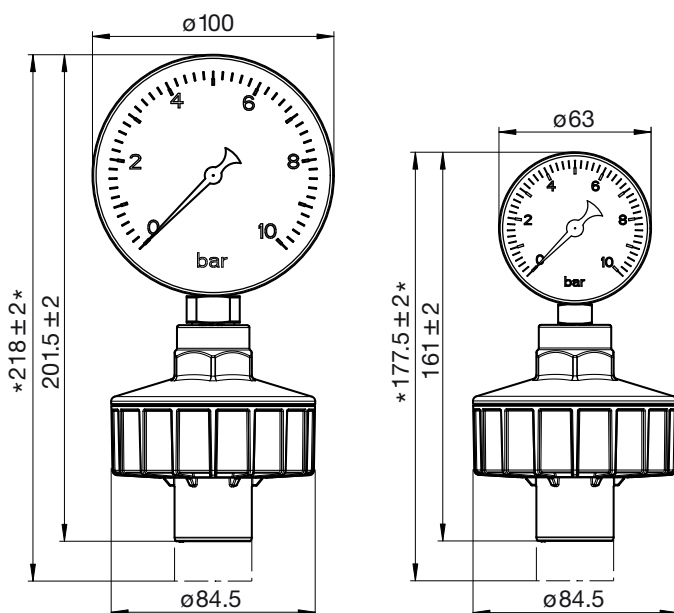
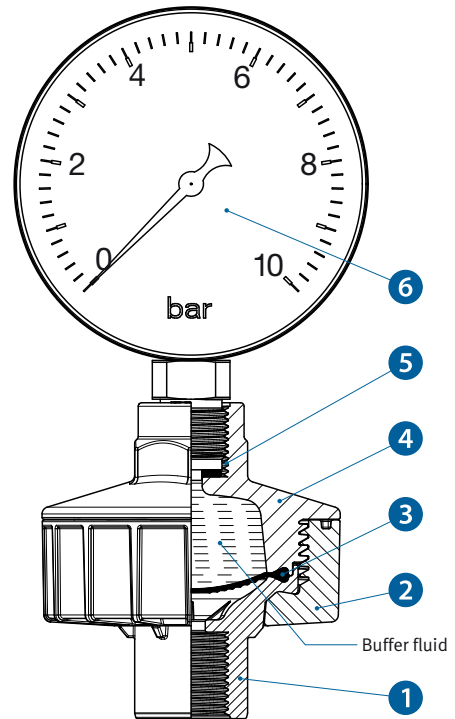
Filling the buffer fluid

- Upper body (Item 4) of the pressure gauge guard Z800/Z801-fill preferably with Glysantine, or distilled water up to the lower edge of the threaded socket.
- Move smoothly (up and down) the diaphragm from below using a blunt object until no more air bubbles appear
- Screw in the pressure gauge
- If the pressure gauge already display a pressure, some buffer fluid has to be removed until there is no pressure displayed

Installing instructions

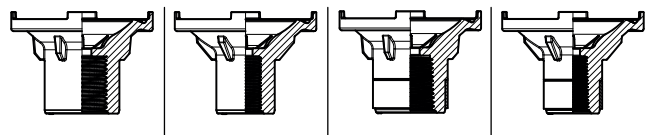
We recommend to install the pressure gauge guard in a vertical position with a previous screwed connection and a shut-off-device. This ensures that the pressure gauge can be brought into the desired read-off position and an easy replacement is possible.

Various pressure gauges are as option available.



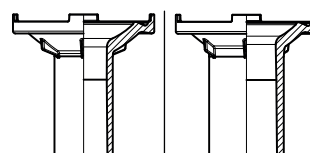
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THREADED FEMALE CONNECTIONS



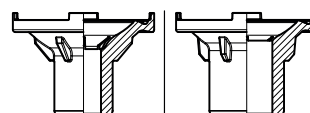
| G1/2" | G1/4" | NPT1/2" | NPT1/4" |
|-------|-------|---------|---------|
| PP | PP | PP | PP |
| PVC | PVC | PVC | PVC |
| PVDF | PVDF | PVDF | PVDF |

FUSION SPIGOT



| d25 | d32 |
|------|------|
| PP | PP |
| PVDF | PVDF |

ADHESIVE SPIGOT



| d25 | d32 |
|-----|-----|
| PVC | PVC |

Z800.7801

Diaphragm pressure gauge guard

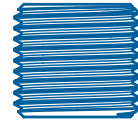
Pressure gauge



Pressure gauge sealing 1/4"



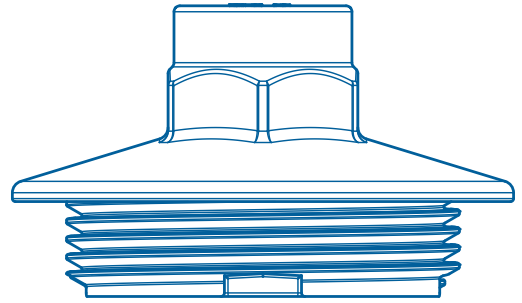
Thread reduction G1/2"-G1/4"



Pressure gauge sealing 1/2"



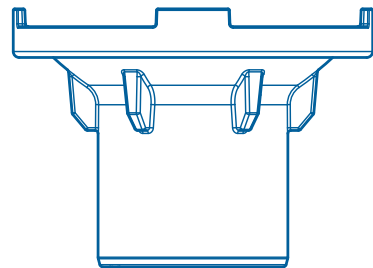
Upper part



Diaphragm



Lower part



Union nut

