

Diaphragm Pressure Gauges

Diaphragm with dry, FDA-compliant measuring unit made of 316 L, welded, with flush-mounted membrane

PCh 100 – 3 DG

Applications

The PCh 100 – 3 DG is suitable for the sterile process technology, which is especially applied in food and pharmaceutical industries. All the wetted parts of this diaphragm pressure gauge are made of stainless steel 1.4435 / 316 L and are completely welded. Since there is no filling fluid, this pressure gauge is equipped with an absolutely dry measuring unit. In the event of damage, the contamination of the medium due to transfer fluid from the measuring system can herewith be excluded.

Nominal case sizes 100 mm (4")

Accuracy (EN 837-3) class 1.6

Pressure ranges (EN 837-3)

- 1 – 3 bar
- 1 – 5 bar
- 1 – 9 bar
- 0 – 4 bar
- 0 – 6 bar
- 0 – 10 bar

Protection type IP 54 (EN 60 529 / IEC 529)

Further information on advantages, applications, metrological features, temperature resistance and pressure ranges of all available diaphragm pressure gauge models cl. 1.6 can be found in our **model overview 3000**.



Standard Version

| | |
|--|---|
| Connection: | e.g. Clamp ISO 2852 DN 38 other connections see page 2 |
| Movement: | stainless steel |
| Dial: | aluminum, white background, black figures |
| Pointer: | aluminum black |
| Case: | bayonet ring case stainless steel 1.4301 (ventilated) |
| Window: | laminated safety glass |
| Measuring cell: | dry measuring cell DG (Dry Genic) |
| Wetted parts: | 1.4435 / 316 L |
| Surface roughness of the wetted parts | $R_a < 0.8 \mu\text{m}$ |
| Permissible Temperature: | ambience: -20 ... +60 °C (-4...140 °F) medium: +150 °C (+302 °F) |

Special Versions (Upon Request)

- 3-A approval
- Other pressure ranges
- Other temperature ranges
- Wetted parts made of Inconel

Ordering Information (Model Construction)

Please specify in your order:

| | |
|------------------------------------|--|
| Basic model: | PCh |
| Nominal case size: | 100 |
| Ordering code of the wetted parts: | - 3 |
| Pressure range: | according to EN 837-3 e.g. 0 – 4 bar |
| Connection: | e.g. Clamp ISO 2852 DN 38 |

Example for Ordering Information:

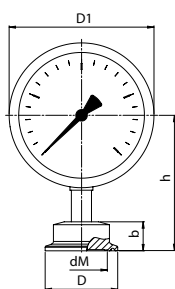
- PCh 100 – 3 DG, 0 – 10 bar, Clamp ISO 2852 DN 38

Process Connection Dry Genic (PADG) and Dimensional Data (in mm)

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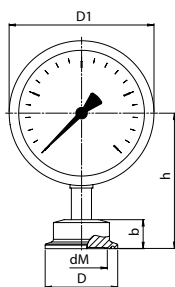
PADG 7340v... ISO 2852

for tubes according to ISO 2037 and BS 4825



| DN | PN | For tube male-Ø x wall thickness | Tube female-Ø | b | D | D1 | dM | h |
|------|----|----------------------------------|---------------|----|------|-----|----|----|
| 38 | 16 | 38 x 1.2 | 35.6 | 20 | 50.5 | 101 | 36 | 95 |
| 51 | | 51 x 1.2 | 48.6 | | 64 | | | |
| 63.5 | | 63.5 x 1.6 | 60.3 | | 77.4 | | | |
| 76.1 | | 76.1 x 1.6 | 72.9 | | 91 | | | |

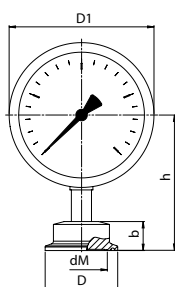
PADG 7340.1v...DIN 32 676, series A for tubes according to DIN 11 850



| DN | PN | For tube male-Ø x wall thickness | Tube female-Ø | b | D | D1 | dM | h |
|----|----|----------------------------------|---------------|----|------|-----|----|----|
| 40 | 16 | 41 x 1.5 | 38 | 20 | 50.5 | 101 | 36 | 95 |
| 50 | | 53 x 1.5 | 50 | | 64 | | | |
| 65 | | 70 x 2 | 66 | | 91 | | | |
| 80 | | 85 x 2 | 81 | | 106 | | | |

PADG 7340.6v... Tri-Clamp

for tubes according to BS 4825 and O.D.-Tube; ASME BPE and ISO 1127



| NPS | DN | PN | For tube male-Ø x wall thickness | | For tube female-Ø | | b | D | D1 | dM | h |
|-----|------|----|----------------------------------|----------|----------------------------------|----------|----|------|-----|----|----|
| | | | BS 4825 and O.D.-Tube / ASME BPE | ISO 1127 | BS 4825 and O.D.-Tube / ASME BPE | ISO 1127 | | | | | |
| 1½" | 38 | 16 | 38.1 x 1.6 | 42.4 x 2 | 34.8 | 38.4 | 20 | 50.5 | 101 | 36 | 95 |
| 2" | 51 | | 50.8 x 1.6 | 48.3 x 2 | 47.5 | 44.3 | | 64 | | | |
| 2½" | 63.5 | | 63.5 x 1.6 | 60.3 x 2 | 60.3 | 56.3 | | 77.5 | | | |
| 3" | 76.1 | | 76.2 x 1.6 | 76.1 x 2 | 73.0 | 72.1 | | 91 | | | |