



Main Features

- For corrosive process fluids and atmospheres
- Accuracy $\pm 2\%$ F.S.
- Static pressure max. 100 bar
- Housing and wetted parts stainless steel

Applications

- Food & Beverage
- Laboratory & Medical
- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Transportation & Logistics
- Machinery

Technical Data

| | |
|-----------------------------------|--|
| Nominal size | 150 mm |
| Measurement range | 0 ... 0.1 to 0 ... 25 bar |
| Static pressure | Selectable, max. 100 bar (see table on page 2) |
| Allowed single-sided overpressure | Up to the selected static pressure, limited at a maximum of 25 bar |
| Accuracy | $\pm 2\%$ F.S. for standard ranges (see table on page 2) |
| Protection rating | IP 65 (EN 60529) |
| Process connection | Stainless steel 1.4404 (AISI 316L) |
| Bellows | Stainless steel 1.4404 (AISI 316L) (2 bellows per gauge) |
| Case | Stainless steel 1.4301 (AISI 304) |
| Bezel ring | Stainless steel 1.4301 (AISI 304) |
| Movement | Stainless steel |

| | |
|---------------|---|
| Window | MX, MZ : instrument glass MT, MQ : laminated safety glass |
| Window gasket | Elastomer |
| Dial | Aluminium, white |
| Pointer | Aluminium, black |
| Temperature | Ambient : -20 ... +70°C Medium : -40 ... +200°C (not filled) For liquid filled version see ordering details. The case temperature must not exceed +70°C Storage : -40 ... +70°C |
| Safety | Pressure gauge with blow-out device Fulfills requirements for S1 gauges according to EN 837 |

Options

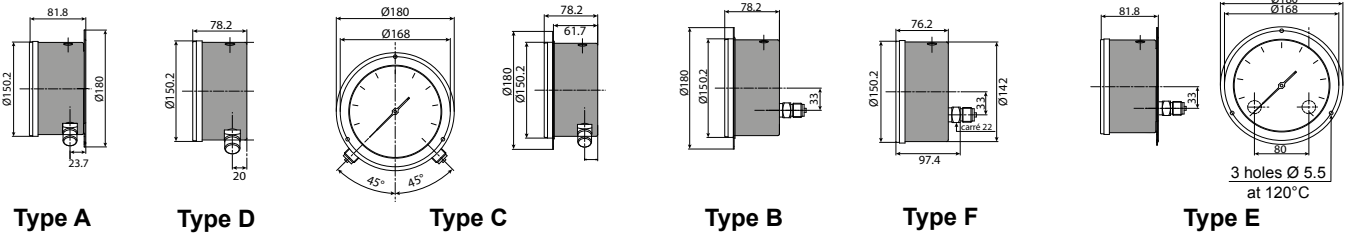
| | |
|--|-----------|
| Polycarbonate window with index pointer adjustable by fixed button | Code 0052 |
| ATEX II2GDc-IM2c (Including window laminated safety glass) | Code 0078 |
| Adjustable micro metric pointer ($P \geq 0.6$ bar) | Code 0678 |
| Adjustable friction pointer | Code 0679 |
| Window laminated safety glass (included in type MT and MQ) | Code 0751 |
| Window Plexiglas | Code 0752 |
| Window Hardened glass | Code 0756 |
| Oxygen application | Code 0765 |
| Laboratory cleanliness | Code 0835 |
| Nuclear cleanliness | Code 0838 |

To be ordered separately

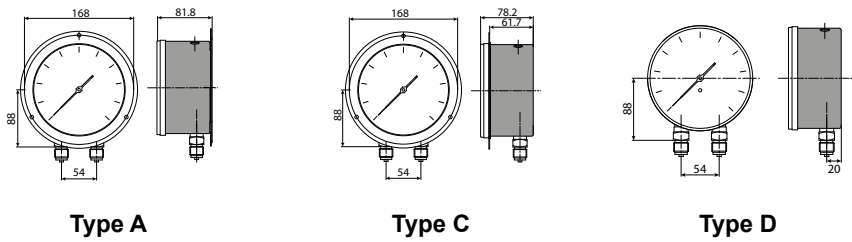
| | |
|---|------------|
| Material certificate 3.1 EN10204 | Code Q1229 |
| Calibration certificate EN837-1 (5 points raising and 5 points falling) | Code Q1070 |

Dimensions - Types of mounting

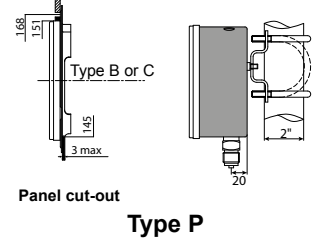
MX - MT



MZ - MQ



MX - MZ - MT - MQ



Weight (kg)
Filled : 2.5
Unfilled : 1.6

Pressure ranges

| Code | Bar |
|------|------------|
| B08 | 0 ... 0.1 |
| B09 | 0 ... 0.16 |
| B10 | 0 ... 0.25 |
| B11 | 0 ... 0.4 |
| B12 | 0 ... 0.6 |
| B15 | 0 ... 1 |
| B16 | 0 ... 1.6 |
| B18 | 0 ... 2.5 |
| B19 | 0 ... 4 |
| B20 | 0 ... 6 |
| B22 | 0 ... 10 |
| B24 | 0 ... 16 |
| B26 | 0 ... 25 |

| Code | kPa |
|------|-------------|
| D08 | 0 ... 10 |
| D09 | 0 ... 16 |
| D10 | 0 ... 25 |
| D11 | 0 ... 40 |
| D12 | 0 ... 60 |
| D15 | 0 ... 100 |
| D16 | 0 ... 160 |
| D18 | 0 ... 250 |
| D19 | 0 ... 400 |
| D20 | 0 ... 600 |
| D22 | 0 ... 1 000 |
| D24 | 0 ... 1 600 |
| D26 | 0 ... 2 500 |

| Code | kg/cm ² |
|------|--------------------|
| F08 | 0 ... 0.1 |
| F09 | 0 ... 0.16 |
| F10 | 0 ... 0.25 |
| F11 | 0 ... 0.4 |
| F12 | 0 ... 0.6 |
| F15 | 0 ... 1 |
| F16 | 0 ... 1.6 |
| F18 | 0 ... 2.5 |
| F19 | 0 ... 4 |
| F20 | 0 ... 6 |
| F22 | 0 ... 10 |
| F24 | 0 ... 16 |
| F26 | 0 ... 25 |

Ordering code for maximum static pressure

| A | C | D | E | F | G | H | J | K | L | M | N |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 1) | 1) | 2) | 2) | 2) | 2) | | | | | | |
| 1) | 1) | 1) | 2) | 2) | 2) | 2) | | | | | |
| • | • | • | • | 1) | 1) | 1) | 2) | | | | |
| • | • | • | • | • | 1) | 1) | 2) | 2) | | | |
| • | • | • | • | • | • | 1) | 1) | 2) | | | |
| | • | • | • | • | • | • | 1) | 1) | 2) | | |
| | | • | • | • | • | • | • | 1) | | | |
| | | | • | • | • | • | • | 1) | 1) | 2) | |
| | | | | • | • | • | • | • | • | 2) | 2) |
| | | | | | • | • | • | • | • | 1) | 2) |
| | | | | | | • | • | • | • | • | 1) |
| | | | | | | | • | • | • | • | • |

Static pressure (bar) **0.6 1 1.6 2.5 4 6 10 16 25 40 60 100**

- Scale 270°, accuracy ± 2 % (± 3 % with liquid filling)
- 1) Scale 270°, accuracy ± 4 % (± 5 % with liquid filling)
- 2) Scale < 270°, accuracy ± 4 % (± 5 % with liquid filling)

Ordering details MX-MZ-MT-MQ

| | M | 7 | - | | | . | xxx | | / |
|---|---|---|---|--|--|---|-----|---|-----|
| Model | M | | | | | | | | |
| Differential pressure gauge | M | | | | | | | | |
| Type of housing | | | | | | | | | |
| Process connection 90° bottom (V-type) or lower back | X | | | | | | | | |
| Process connection 90° bottom (V-type) or lower back, baffle wall | T | | | | | | | | |
| Process connection bottom parallel | Z | | | | | | | | |
| Process connection bottom parallel, baffle wall | Q | | | | | | | | |
| Nominal size | | | | | | | | | |
| 150 mm | | 7 | | | | | | | |
| | | | - | | | | | | |
| Type of mounting | | | | | | | | | |
| Stainless steel case and bezel ring 1.4301 (AISI 304) | | | | | | | | | |
| Bottom connection, back flange for wall mounting, 3 mounting holes | | | | | | | | A | |
| Back connection, front flange, 3 mounting holes ⁽¹⁾ | | | | | | | | B | |
| Bottom connection, front flange, 3 mounting holes | | | | | | | | C | |
| Bottom connection | | | | | | | | D | |
| Back connection, back flange for wall mounting, 3 mounting holes ⁽¹⁾ | | | | | | | | E | |
| Back connection ⁽¹⁾ | | | | | | | | F | |
| Bottom connection with mounting bracket for 2" tubes | | | | | | | | P | |
| Stainless steel case and bezel ring 1.4404 (AISI 316L) | | | | | | | | | |
| Bottom connection, back flange for wall mounting, 3 mounting holes | | | | | | | | 1 | |
| Back connection, front flange, 3 mounting holes ⁽¹⁾ | | | | | | | | 2 | |
| Bottom connection, front flange, 3 mounting holes | | | | | | | | 3 | |
| Bottom connection | | | | | | | | 4 | |
| Back connection, back flange for wall mounting, 3 mounting holes ⁽¹⁾ | | | | | | | | 5 | |
| Back connection ⁽¹⁾ | | | | | | | | 6 | |
| Bottom connection with mounting bracket for 2" tubes | | | | | | | | 8 | |
| Process connection | | | | | | | | | |
| G 1/2 | | | | | | | | 3 | |
| 1/2 NPT | | | | | | | | 6 | |
| Liquid filling | | | | | | | | | |
| Dry | | | | | | | | 0 | |
| BH1: low viscosity glycerin/water 86% (medium : -20 ... +70°C) ⁽²⁾ | | | | | | | | 1 | |
| BH2: high viscosity glycerin 99.5% (medium : 0 ... +90°C) ⁽²⁾ | | | | | | | | 2 | |
| BH3: silicone oil (medium : -40 ... +100°C) ⁽²⁾ | | | | | | | | 3 | |
| BH4: low temperature silicone (medium : -60 ... +100°C) ⁽²⁾ | | | | | | | | 4 | |
| BH5: Fluor carbon for oxygen use (medium : -15 ... +100°C) ⁽²⁾ | | | | | | | | 5 | |
| Unit of measurement / Pressure ranges | | | | | | | | | |
| bar | | | | | | | | | Bxx |
| psi | | | | | | | | | Hxx |
| kPa | | | | | | | | | Dxx |
| MPa | | | | | | | | | Exx |
| mbar | | | | | | | | | Nxx |
| kg/cm ² | | | | | | | | | Fxx |
| Max. static pressure | | | | | | | | | |
| See table on page 2 | | | | | | | | | X |
| Options to be added behind the / (see example below) | | | | | | | | | / |

⁽¹⁾ Not available for types of housing Z and Q
⁽²⁾ The accuracy of filled gauges is reduced (see table on page 2)

Ordering example with options

