Miniature Bourdon tube pressure gauge
Back mount, standard version
Model 111.12.027

Applications

- For gaseous and liquid media that are not highly viscous or crystallising and will not attack copper alloy parts
- Indication of cylinder charging pressure
- Respiratory protective equipment, sports weapons, welding engineering (compact equipment)
- Medical engineering

Special features

- Small and compact
- Ideal for integration solutions
- Nominal size 27
- Scale ranges up to 0 … 400 bar

Description

Nominal size in mm
27

Accuracy class
4.0

Scale ranges
Low pressure: 0 … 4 to 0 … 25 bar
High pressure: 0 … 100 to 0 … 400 bar
or all other equivalent pressure ranges

Pressure limitation
Steady: 3/4 x full scale value
Fluctuating: 2/3 x full scale value
Short time: Full scale value

Permissible temperature
Ambient: -20 … +60 °C
Medium: +60 °C maximum

Temperature effect
When the temperature of the measuring system deviates from the reference temperature (+20 °C):
max. ±0.4 %/10 K of the span
## Standard version

**Process connection**
Copper alloy, centre back mount (CBM)
G 1/8 B (male), 27 mm flats

**Pressure element**
Copper alloy

**Movement**
Copper alloy

**Dial**
Plastic, white, with pointer stop pin, black lettering

**Pointer**
Plastic, black

**Case**
Copper alloy
(up to 25 bar measuring system with PA adapter)

**Window**
Plastic, crystal-clear, snap-fitted in case

### Options
- Other process connection
- Case copper alloy, nickel-plated

## Dimensions in mm

### Standard version

*Centre back mount (CBM)*

<table>
<thead>
<tr>
<th>NS</th>
<th>Design</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>$b_1 \pm 0.5$</td>
<td>$b_2 \pm 1$</td>
</tr>
<tr>
<td>27</td>
<td>Low pressure</td>
<td>18.5</td>
<td>30.5</td>
</tr>
<tr>
<td>27</td>
<td>High pressure</td>
<td>17.5</td>
<td>28.5</td>
</tr>
</tbody>
</table>

*Process connection per EN 837-1 / 7.3*

## Ordering information

Model / Nominal size / Indication range / Connection size / Options

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