Bourdon tube pressure gauge
Safety version
Model 111.31, welding gauge to ISO 5171

Applications
- For equipment and plants for welding, cutting and allied processes
- Application for oxygen and acetylene
- Increased safety requirements

Special features
- Safety pressure gauge with solid baffle wall
- Reliable and cost-effective
- Nominal size 50
- Scale ranges up to 0 … 400 bar

Description
Design
ISO 5171

Nominal size in mm
50

Accuracy class
2.5

Scale ranges
0 … 2.5 to 0 … 400 bar
or all other equivalent vacuum or combined pressure and vacuum 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,
lower mount (LM)
1/4 NPT (male), 14 mm flats

Pressure element
Copper alloy
C-type or helical type

Movement
Copper alloy

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

Pointer
Plastic, black

Case
Zinc diecast with solid baffle wall (Solidfront) and blow-out device in the back

Window
Polycarbonate

Options
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Case lacquered to customer requirements

Dimensions in mm

Standard version

<table>
<thead>
<tr>
<th>NS</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>10   29.5 55.1</td>
<td>1/4 NPT 47.5 14 0.13</td>
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</table>

CE conformity

Pressure equipment directive
97/23/EC, PS > 200 bar, module A, pressure accessory

Approvals
- GOST-R, import certificate, Russia

Certificates
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

Ordering information
Model / Nominal size / Scale range / Connection size / Options

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