Bourdon tube pressure gauge  
Test gauge series, safety version, class 0.6  
Models 332.30, 333.30

Applications
■ For gaseous and liquid aggressive media that are not highly viscous or crystallising, also in aggressive ambience  
■ Precision measurement in laboratories  
■ High-accuracy pressure measurement, testing of industrial type pressure gauges  
■ Increased safety requirements for personal protection  
■ With liquid-filled case for applications with high dynamic pressure loads or vibrations 1)

Special features
■ Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1  
■ All stainless steel construction  
■ Knife edge pointer for optimal accuracy of reading  
■ Wear-resistant precision movement from stainless steel  
■ Scale ranges up to 0 … 1,600 bar

Description
Design  
EN 837-1

Nominal size in mm  
160

Accuracy class  
0.6

Scale ranges  
0 … 0.6 to 0 … 1,600 bar or all other equivalent vacuum or combined pressure and vacuum ranges

Adjustment medium  
≤ 25 bar: Gas  
> 25 bar: Liquid

Pressure limitation  
Steady: Full scale value  
Fluctuating: 0.9 x full scale value  
Short time: 1.3 x full scale value

Permissible temperature  
Ambient: -40 … +60 °C without liquid filling  
-20 … +60 °C with glycerine filling 1)  
Medium: +200 °C maximum without liquid filling  
+100 °C maximum with liquid filling 1)

Temperature effect  
When the temperature of the measuring system deviates from the reference temperature (+20 °C):  
max. ±0.4 %/10 K of full scale value

Ingress protection  
IP65 per IEC/EN 60529

1) Model 333.30
Standard version

Process connection
Stainless steel 316L
Lower mount (LM)
G ½ B (male), 22 mm flats

Pressure element
Stainless steel 316L
< 100 bar: C-type
≥ 100 bar: Helical type
≥ 1,000 bar: Ni-Fe-alloy, helical type

Movement
Stainless steel

Dial
Aluminium, white, black lettering

Pointer
Knife edge pointer, aluminium, black

Case
Stainless steel, with solid baffle wall (Solidfront) and blow-out back

Window
Laminated safety glass

Bezel ring
Bayonet ring, stainless steel

Filling liquid (for model 333.30)
Glycerine

Options
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Panel mounting flange, stainless steel
- Surface mounting lugs on the back, stainless steel
- Higher indication accuracy: Class 0.25 per EN 837 or grade 3A per ASME B40.1 for scale ranges ≤ 400 bar
- Mirror band scale
- Zero point adjustable from outside (adjustable dial)
- High-pressure versions from 2,500 bar (model 322.30, data sheet PM 02.09)
- Adjustment medium gas from scale ranges ≥ 25 bar
- Transport case

EU conformity

Pressure equipment directive
PS > 200 bar, module A, pressure accessory

Approvals
- EAC (option), import certificate, customs union Russia/Belarus/Kazakhstan
- GOST (option), metrology/measurement technology, Russia
- CRN, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates (option)
- 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. material proof for wetted metallic parts, indication accuracy)
- DKD/DAkkS certified accuracy

Approvals and certificates, see website
Dimensions in mm

Standard version

<table>
<thead>
<tr>
<th>Scale range</th>
<th>Dimensions in mm</th>
<th>Weight in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>&lt; 100 bar</td>
<td>27</td>
<td>65</td>
</tr>
<tr>
<td>≥ 100 bar</td>
<td>41.5</td>
<td>79</td>
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Ordering information

Model / Nominal size / Scale range / Process Connection / Options

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