Test gauge, stainless steel
Safety version, class 0.6, NS 160
Models 332.50, 333.50

Applications

■ With liquid-filled case for applications with high dynamic pressure loads or vibrations
■ 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

Special features

■ 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 per IEC/EN 60529
IP65

1) Model 333.50

WIKA data sheet PM 03.06 · 06/2018
Standard version

Process connection
Stainless steel 316L, lower mount (LM) or lower back mount (LBM)
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 pressure relief in case back, scale ranges ≤ 0 ... 10 bar with compensating valve to vent case

Window
Laminated safety glass

Bezel ring
Cam ring (bayonet type), stainless steel

Filling liquid (for model 333.50)
Glycerine

Options
- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Surface or panel mounting flange, stainless steel
- Triangular bezel, polished stainless steel, with clamp
- Higher indication accuracy (for gauges without liquid filling): Class 0.25 per EN 837 or grade 3A per ASME B 40.1 for scale ranges ≤ 400 bar
- Mirror band scale
- Zero point adjustment from outside (adjustable dial, only without case filling)
- Adjustment medium gas from 25 bar
- Transport case
## Approvals

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### 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

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<th>Lower back mount (LBM)</th>
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<tr>
<td></td>
<td>a</td>
<td>b</td>
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- Process connection per EN 837-1 / 7.3
- 1) Plus 16 mm with scale ranges ≥ 100 bar

### Ordering information

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

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