

Bourdon tube pressure gauge UHP, stainless steel, safety version Model 232.35

WIKA data sheet PM 02.11



for further approvals
see page 2

Applications

- Increased safety requirements for personal protection
- For gaseous and liquid, also aggressive media for demanding high purity applications, also in aggressive ambience
- For all UHP (ultra high purity) applications
- Semiconductor and flat panel industry
- Gas distribution systems, medical gases, hook-up application

Special features

- Safety pressure gauge with solid baffle wall designed in compliance with operational safety requirements of EN 837-1
- VCR® compatible face seal fittings
- Helium leak tested
- Electropolished case

Description

Design

EN 837-1

Nominal size in mm

63

Accuracy class

1.6

Scale ranges

0 ... 1 to 0 ... 400 bar (0 ... 15 to 0 ... 6,000 psi)
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: -40 ... +60 °C
Medium: +100 °C maximum

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

IP 54 per EN 60529 / IEC 529



Bourdon tube pressure gauge, UHP model 232.35.63,
process connection VCR® compatible face seal fitting
with male nut

VCR® is a registered trademark of Swagelok

Standard version

Process connection

Stainless steel 316L

Lower mount (LM) or back mount (BM)

VCR® compatible face seal fitting optionally:

with union nut

with male nut

or with male thread 9/16-18 UNF fixed

Male thread ¼ NPT

Weld-in connection

Pressure element

Stainless steel 316L

< 100 bar: C-type

≥ 100 bar: Helical type

Leak tightness: Leak rate ≤ 10⁻⁹ mbar · l / s

Test method: Helium mass spectrometry

Movement

Stainless steel

Dial

Aluminium, white, with pointer stop pin

Black/red lettering, dual scale psi/bar

Pointer

Aluminium, black

Case

Stainless steel, electropolished, with solid baffle wall (Solid-front) and blow-out back, scale ranges ≤ 0 ... 16 bar (lower mount) with compensating valve to vent case

Window

Polycarbonate

Bezel ring

Bayonet ring, stainless steel

Cleaning

Cleaned for oxygen service

Options

- Other process connection
- Sealings (model 910.17, see data sheet AC 09.08)
- Lower process connection surface roughness $R_a \leq 0.3 \mu\text{m}$
- Scale ranges up to 700 bar with process connection ¼ NPT
- Higher accuracy class 1.0
- Panel mounting flange, stainless steel, electropolished (for back mount connection)
- Switch contacts
 - Magnetic snap-action contact (model 821)
 - Inductive contact (model 831)
 - Electronic contact (model 830 E)
 - Reed contact (model 851)

CE conformity

Pressure equipment directive

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

Approvals

- **GOST**, metrology/measurement technology, Russia
- **GOST-R**, import certificate, Russia
- **CRN**, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates ¹⁾

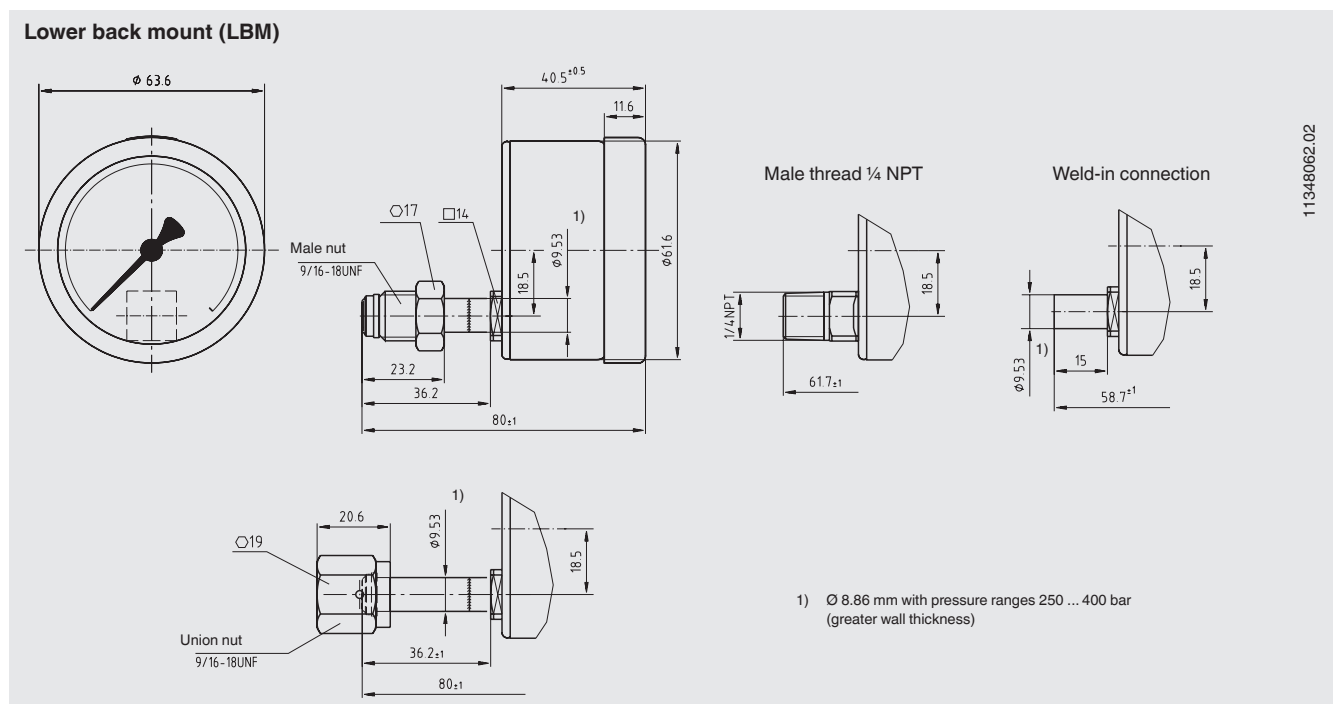
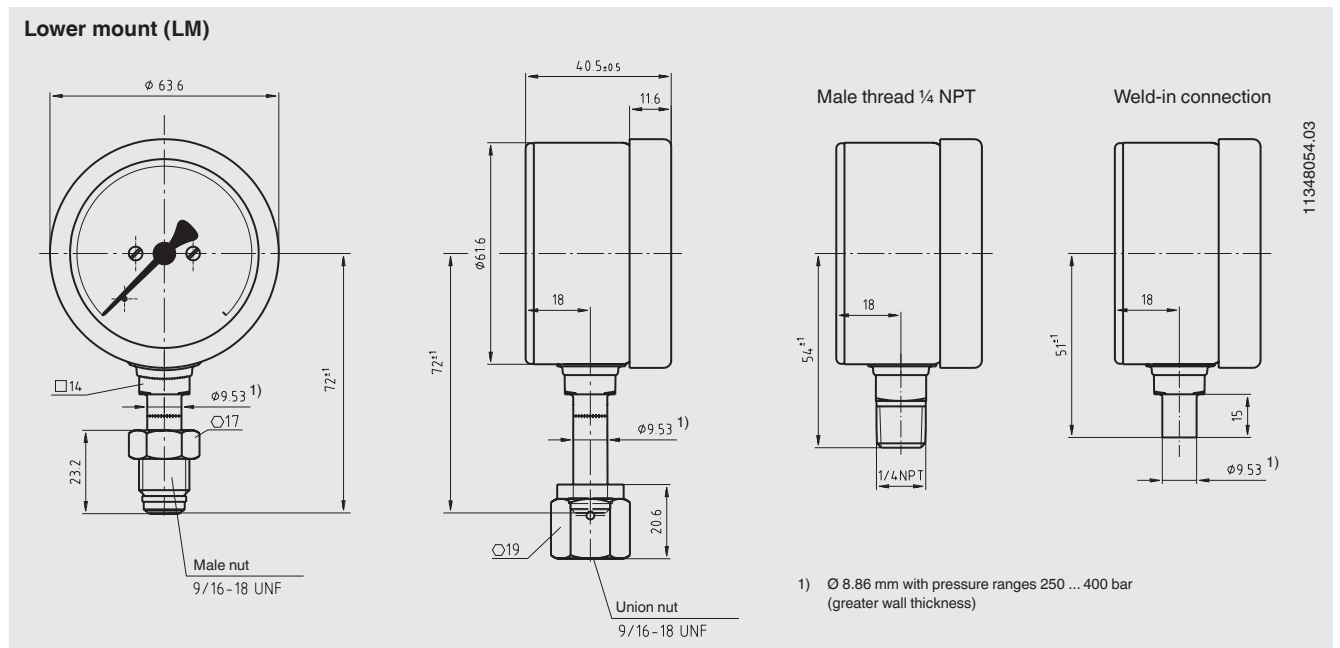
- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. material proof for wetted metallic parts, indication accuracy)

1) Option

Approvals and certificates, see website

Dimensions in mm

Standard version



Ordering information

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

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