

## 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



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

**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

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  $\leq 10^{-9}$  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  $\leq 0 \dots 16$  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 <sup>1)</sup>

- 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)

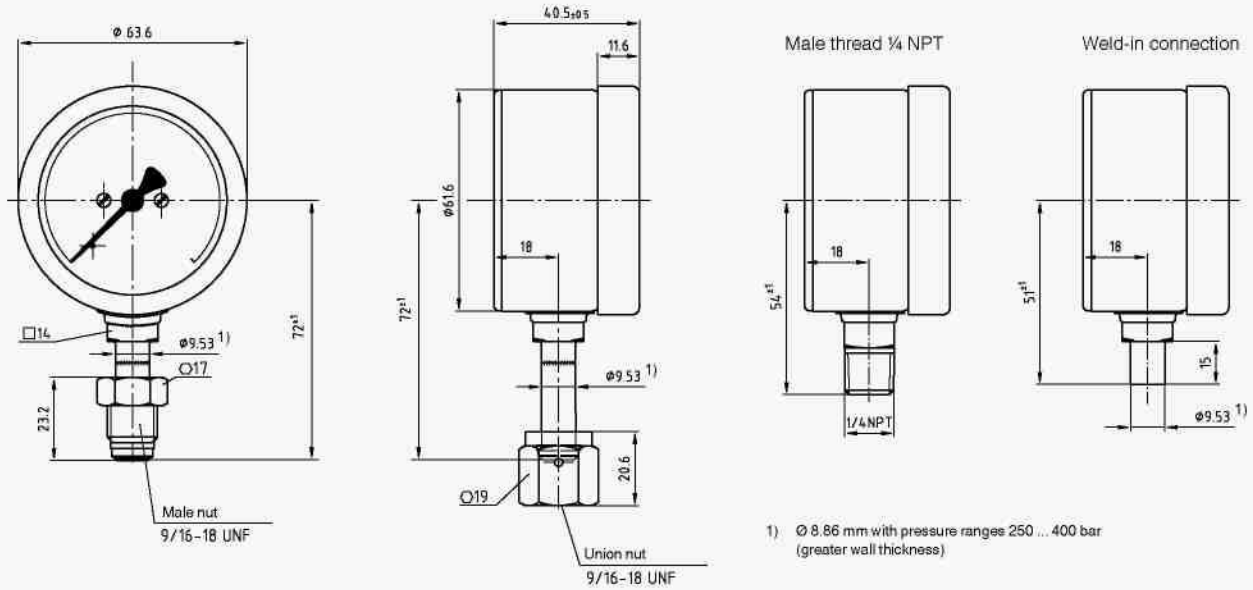
<sup>1)</sup> Option

Approvals and certificates, see website

## Dimensions in mm

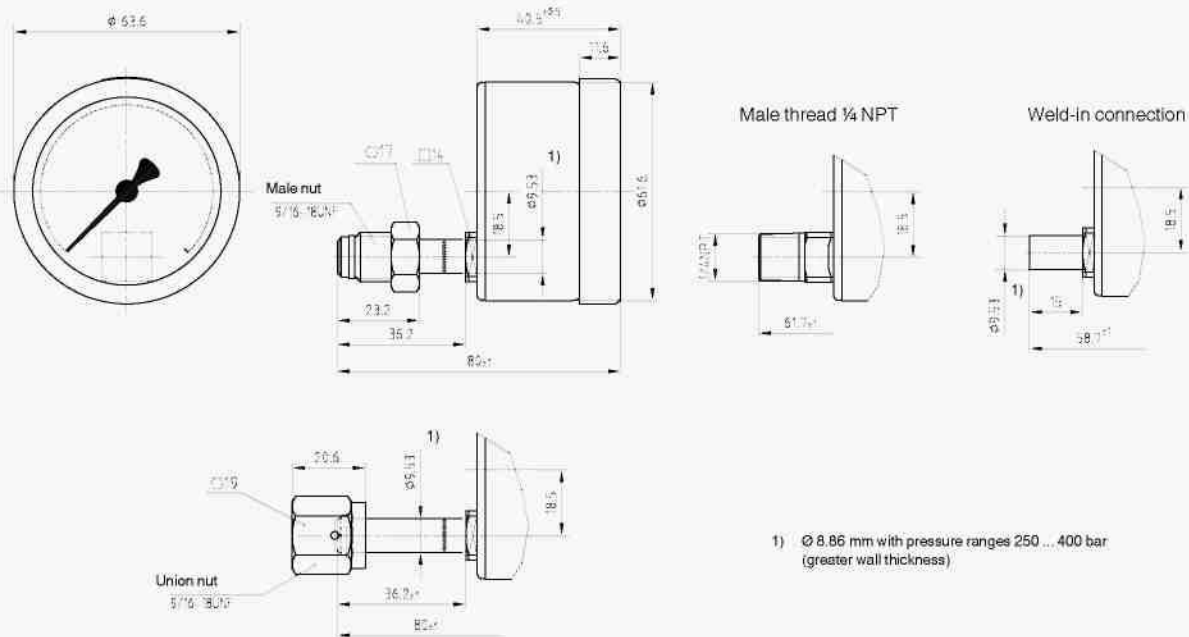
### Standard version

#### Lower mount (LM)



11348054.03

#### Lower back mount (LBM)



11348062.02

### Ordering information

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

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