

## Applications

- Suitable for all high-purity environmental applications
- Semiconductor and tablet industries
- Gas distribution system

## Features

- VCR compatible sealing device
- Helium leak test
- Oil sludge residue below 150mg/ m<sup>2</sup> (EP grade below 50mg/ m<sup>2</sup>)
- Clean room vacuum packaging
- Internal surface connection of the pressure gauge Ra ≤0.4 μM (BA level)
- Internal surface connection of the pressure gauge Ra ≤ 0.25 μ M (EP level)



High Cleanliness Pressure Gauge

## Description

Surface circle diameter

1 1/2", 2"

### Accuracy

NS 1 1/2" : Level B, in accordance with ASME B40.1

NS 2" : Level B, in accordance with ASME B40.1

### Measuring range

-0.1...0 ~ -0.1...0.9 MPa  
0...0.1 ~ 0...40 MPa (0-15 ~ 0-6000 psi)

### Pressure bearing performance

Static pressure: 3/4 x span

Dynamic pressure: 2/3 x span

Instantaneous pressure: span

### Permissible operating temperature

Ambient temperature: -40...+60 °C

### Temperature performance

When the measurement system is at a non reference temperature (+20 °C), the maximum display error is ± 0.4%/10 K on the dial scale

### Protection class

IP 54 (EN 60 529/IEC 529)

## Standard type structure

### Process connection interface

CrNi-Stainless steel 316 L, external thread radial direction (LM)  
or axial direction (CBM)

VCR sealing device locking  
with threads (internal)  
with external threads or 9/16-18 UNF external threads  
with internal threads 1/4NPT

### Measuring sensitive components

CrNi-Stainless steel 316L

< 10MPa: C-type, ≥ 10MPa: spiral shape

Inside the Bowden tube:  $R_a < 0.5 \mu\text{m}$  ( $R_a < 20 \mu\text{inch}$ )

Sealing performance: Leakage rate  $\leq 10^{-10}$  KPa.1/s

Test method: Helium spectroscopy

### Transmission movement

Stainless steel

### Dial

Dual color/tricolor, dual scale/tri scale, pointer positioning pin

Oil prohibition sign, Oxygen only

## Dimensions (mm)

### Housing

Stainless steel 304/316, electrolytic. Black aluminum pointer.

### Glass: Safety glass

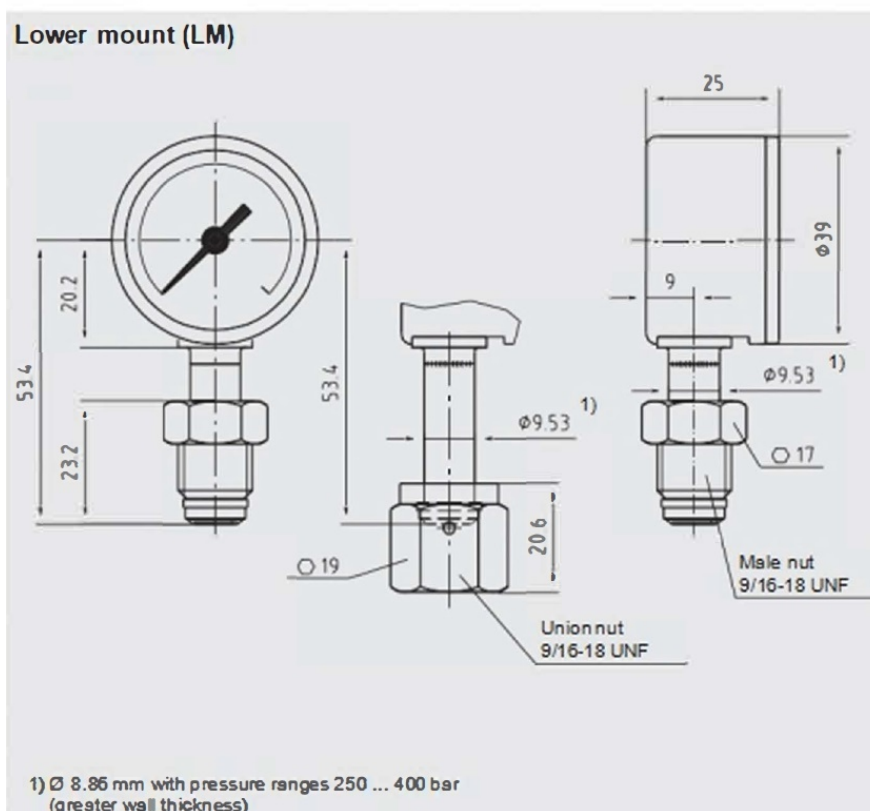
NS 1 1/2": snap-in

NS 2": screw on (twist-lock)

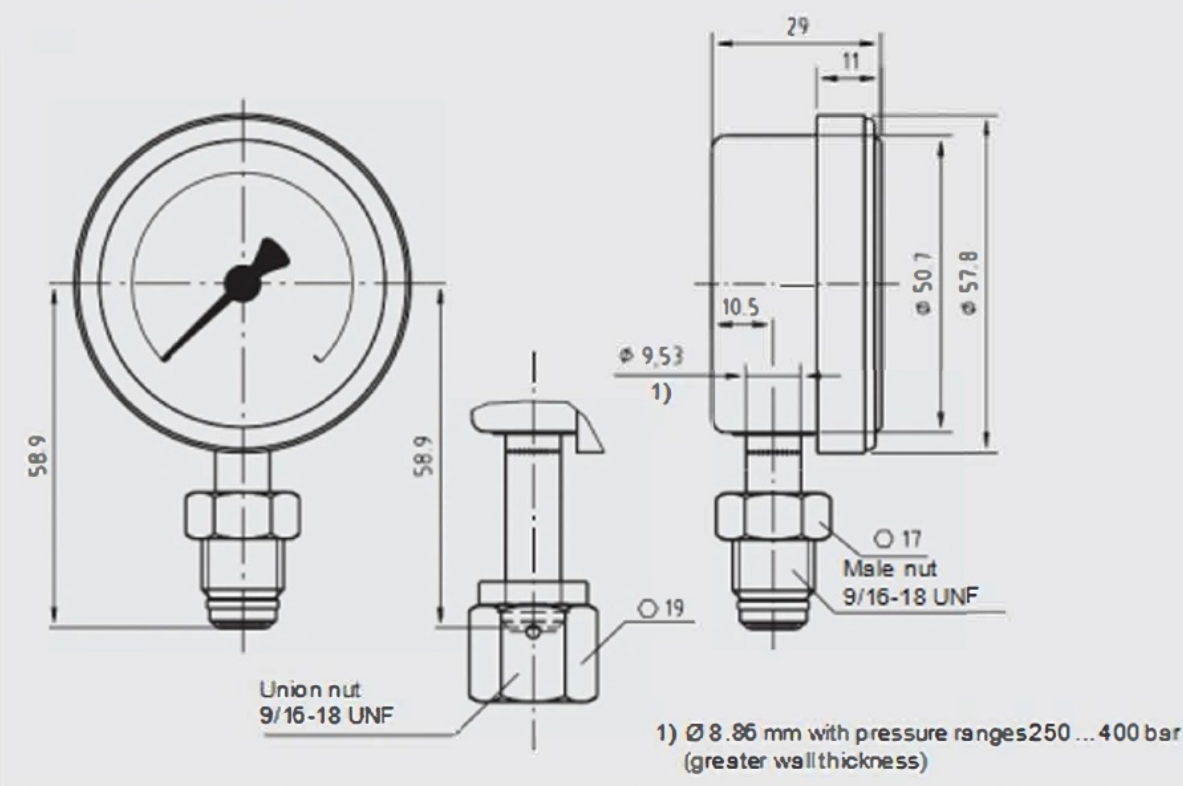
### Cleanliness level

In accordance with SEMI standards  
special circumstances

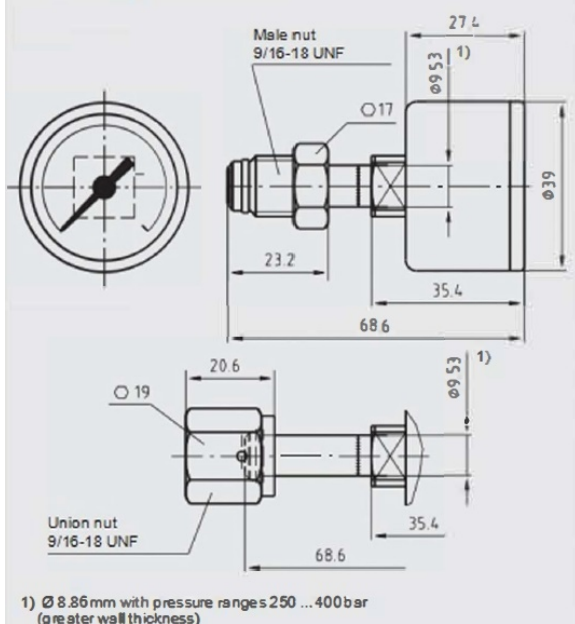
- Other process connections
- For pressure interface with surface roughness  
 $R_a \leq 0.25 \mu\text{m}$ ,
- Pressure connection is 1/4NPT,  
measuring range  $\geq 70\text{MPa}$



### Lower mount (LM)



### Centre back mount (CBM)



### Centre back mount (CBM)

