Bourdon tube pressure gauge
UHP, stainless steel version
Model 230.15

Applications

- 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

- VCR® compatible pressure connection threads
- Helium leak tested
- Electropolished case
- Process connection surface finish Ra ≤ 0.25 µm

Description

Nominal size
1 ½”, 2”

Accuracy class
NS 1 ½”: Grade B per ASME B40.1
NS 2”: Grade A per ASME B40.1

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

VCR® is a registered trademark of Swagelok
Standard version

Process connection
Stainless steel 316L,
lower mount (LM) or centre back mount (CBM)
VCR® compatible face seal fitting optionally:
  with union nut
  with male nut
  or with male thread 9/16-18 UNF fixed

Pressure element
Stainless steel 316L
< 100 bar: C-type
≥ 100 bar: Helical type
Measuring system in crevice free design,
jet-finished and passivated after welding
Ra < 0.5 µm (Ra < 20 µinch)
Leak tightness: Leak rate ≤ 10⁻⁹ mbar · l / s
Test method: Helium mass spectrometry

Movement
Stainless steel

Dial
Aluminium, white, black lettering, with pointer stop pin

Pointer
Aluminium, black

Case
Stainless steel, electropolished

Window
Polycarbonate
NS 1 ½": Snap-in window
NS 2": Screw-fitted on case (twist lock)

Cleaning
Clean for semiconductor applications in accordance with SEMI / SEMATEC

Options
- Other process connection
- Smaller process connection surface finish Ra ≤ 0.3 µm
- Dual scale

Dimensions in mm
Standard version NS 1 ½"

Lower mount (LM)

Centre back mount (CBM)

1) Ø 8.86 mm with pressure ranges 250 ... 400 bar
   (greater wall thickness)
Standard version NS 2"

Lower mount (LM)

Centre back mount (CBM)

Ordering information

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

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