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

Applications
- Increased safety requirements
- For gaseous and liquid, also corrosive media, also in a corrosive environment, for demanding high purity applications
- 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 caset

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 ... 6000 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

Operating 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 lower back mount (LBM)
VCR® compatible face seal fittings:
  with union nut (female)
  with male nut
  or with male thread 9/16-18 UNF fixed
Male thread ¼ NPT
Welding connection

Pressure element
Stainless steel 316L, 
< 100 bar: C-type
≤ 100 bar: helical type
Leakage proof: leak rate ≤ 10⁻⁹ mbar l / s
Method of test: helium mass spectrometry

Movement
Stainless steel

Dial
Aluminium, white, with pointer stop pin,
black/red lettering, dual pressure scale psi/bar

Pointer
Aluminium, black

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

Window
Polycarbonate

Bezel ring
Cam ring (bayonet type), stainless steel

Cleaning
Cleaned for oxygen service

Options

- Other process connection
- Smaller surface finish of the pressure connection
  Ra ≤ 0.3 µm
- Scale ranges up to 700 bar with pressure connection
  ¼ NPT
- Higher accuracy class 1.0
- Panel mounting flange, stainless steel, electropolished,
  (with back mount)
- Switch contacts
  - Magnetic snap-action contact (model 821)
  - Inductive contact (model 831)
  - Electronic contact (model 830 E)
  - Reed contact (model 851)
Dimensions in mm

Standard version

Lower mount (LM)

- Male nut
- 9/16-18 UNF
- Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater thickness)

Lower back mount (LBM)

- Male nut
- 9/16-18 UNF
- Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater thickness)
### Ordering information

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

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