Pressure Gauges

Service intended
Suitable for gaseous, liquid and corrosive media, also in a corrosive environment, for demanding high purity applications. Suitable for all CDA (Clean Dry Air) applications. Fields of application are especially the semiconductor and electronic industry, medical industry, gene technology, biotechnology and pharmaceutical industry.

Design
Leak proof, leak rate ≤ 10⁻⁸ mbar • l/s
pressure connection NPT thread (standard) resp. original VCR® Fitting with front sealing pressure connection

Nominal size
2"

Accuracy
2/1/2% of span (ASME B 40.1 Grade A) in compliance with accuracy class 1.6 per EN 837-1 /6

Scale ranges
0 ... 1 to 0 ... 400 bar (EN 837-1 /5)
0 ... 15 to 0 ... 6000 psi (ASME B 40.1)
or other equivalent units of pressure or vacuum

Working pressure
Steady: ¾ x of full scale value
Fluctuating: ½ x of full scale value
Short time: full scale value

Operating temperature
Ambient: -40 ... +60 °C
Medium: +100 °C maximum

Temperature effect
When temperature of the pressure element deviates from reference temperature (+20 °C):
max. ±0.4 %/10 K of true scale value

Pressure connection
Material: stainless steel 316 L (1.4404),
lower mount (LM) or centre back mount (CBM),
surface finish Ra ≤ 0.6 µm

- ¼ NPT - male thread (standard)
- VCR® compatible face seal fittings:
  with union nut (female)
  with male nut
- Fixed body 9/16-18 UNF
- Welding connection

Pressure element
Material: stainless steel 316 L (1.4404),
< 100 bar: C-type
≥ 100 bar: helical type

Movement
Stainless steel

Dial
White aluminium, with pointer stop pin
With black/red lettering, dual pressure scale (psi/bar),
red inscription "use no oil"

Pointer
Black aluminium pointer

Case
Stainless steel, with pressure relief

Window and bezel
One-piece polycarbonate, screw on (Twist Lock)

Cleaning
Cleaned for oxygen service to ASME B 40.1 (Level I)

Optional extras
- Better finish for wetted parts
  (pressure connection) Ra ≤ 0.3 µm
- Case stainless steel, electropolished
- 3-hole panel mounting flange, stainless steel, electro polished,
  with clamp (back entry only)
- Panel mounting clamp, stainless steel, (back entry only)
- Alarm contacts
  Electronic contact with NPN output (Model 830.1E)
**Ordering information**

State:
Pressure gauge model / Nominal size / Scale range / Size and location of connection / Optional extras required

Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.