Bourdon Tube Pressure Gauges UHP, Stainless Steel Series 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 face seal fittings
- Helium leak tested
- Electropolished case
- Process connection surface finish Ra ≤ 0.25 µm

Bourdon Tube Pressure Gauge, UHP Model 230.15.2", process connection VCR® compatible fitting with union nut

Description

Nominal size
1 ½", 2"

Accuracy class
NS 1 ½": Grade B to ASME B40.1
NS 2": Grade A to ASME B40.1

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 60 529 / IEC 529

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Data sheets showing similar devices:
For HP applications, stainless steel series; Model 130.15; see data sheet PM 02.19

Standard version

Process connection
Stainless steel 316L,
lower mount (LM) or centre back mount (CBM)
VCR® compatible face seal fitting:
with union nut (female)
with male nut
or with male thread 9/16-18 UNF fixed
Male thread ¼ NPT

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
Method of test: 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
NS 2": screw-fitted on case (twist-lock)

Cleaning
Special cleaning per SEMI standard

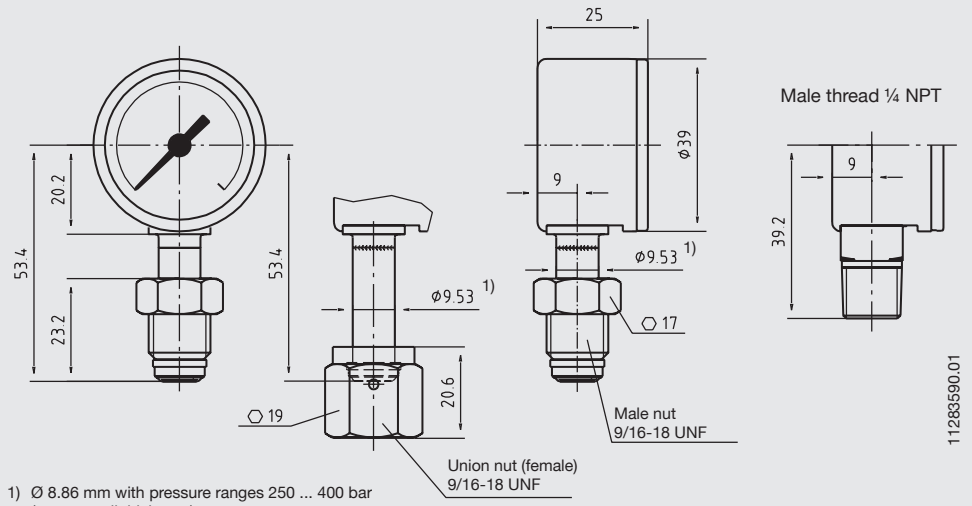
Options

- Other process connection
- Smaller process connection surface finish Ra ≤ 0.3 µm
- Dual scale
- Scale ranges up to 700 bar with process connection ¼ NPT

Dimensions in mm

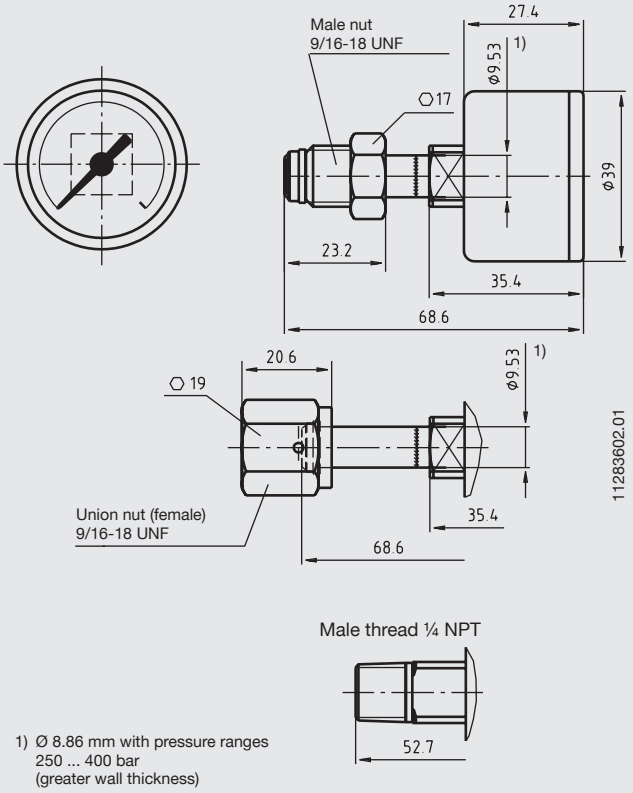
Standard version NS 1 ½"

Lower mount (LM)



1) Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater wall thickness)

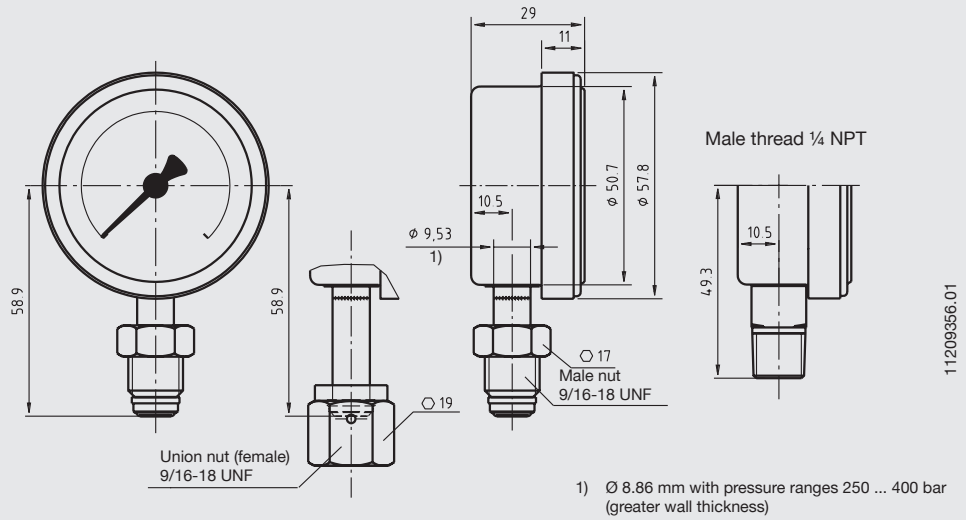
Centre back mount (CBM)



1) Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater wall thickness)

Standard version NS 2"

Lower mount (LM)



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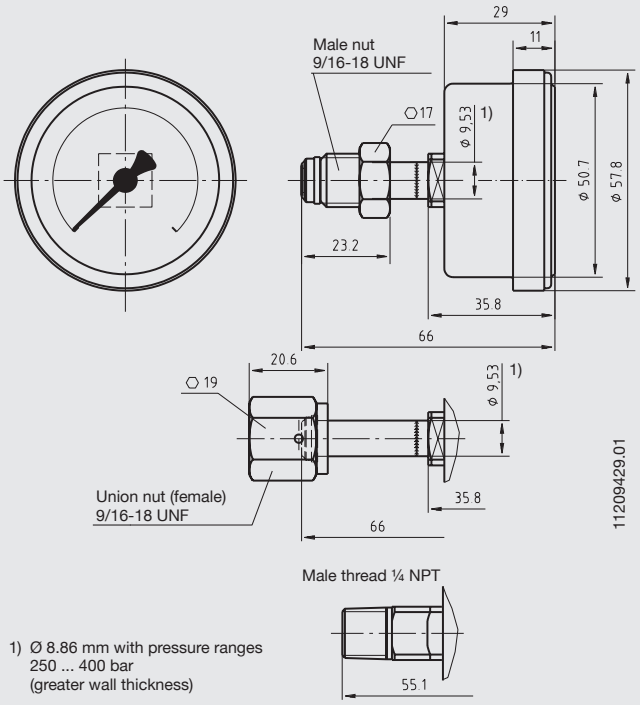

1) Ø 8.86 mm with pressure ranges 250 ... 400 bar (greater wall thickness)

Ordering infomation

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

Modifications may take place and materials specified may be replaced by others withour prior notice.
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

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