



Bourdon tube pressure gauge RF63RG

Part no. 87051302

Bourdon tube pressure gauges for ultra-pure gas applications type D3

benefits

- wetted parts specially cleaned, flushed and electropolished
- tightness-tested with helium
- rear blow-out
- versatile connection technology
- GOSSTANDART-certified

Application

Designed for highly demanding applications in terms of surface quality and purity of the wetted parts, particularly for measuring ultra-pure gases.
! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical Specifications

Type

D3

Nominal size

63

accuracy class (EN 837-1/6)

1.6

ranges (EN 837-1/5)

see ordering table

Calibration medium

Nitrogen or dried air

application area

static load: $\frac{1}{4}$ x full scale value

dynamic load: $\frac{2}{3}$ x full scale value

short-term: Full scale value

Operating temperature range

Medium: max. 150 °C

Ambient: -20/+60 °C

Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of 20 °C:

at rising temperature approx. ± 0.4 %/10 K

falling temperature approx. ± 0.4 %/10 K

of full scale value

Degree of protection

IP 32 (EN 60529)

standard version

Connection

stainless steel 316 Ti/316 L, bottom
9/16-18 UNF, with pressure screw

Measuring element

Bourdon tube, stainless steel 316 Ti/316 L
≤ 60 bar: "C" type tube
> 60 bar: helical tube
tightness-tested with helium,
leak rate ≤ 10⁻⁹ mbar x l/s

wetted parts

Connection, Measuring element
stainless steel 316 Ti/316 L
cleaned, flushed with nitrogen, electropolished, surface roughness
≤ R_a 0.6 µm

movement

Stainless steel

Options

- surface roughness R_a 0.4 µm
- Housing polished
- Push on bezel polished
- Electrical contacts
- NG 50
- special scales
- other process connections

Dial

Aluminium, white
Scaling: black
label: ultra-pure gas

Pointer

Aluminium, black

Housing

Stainless steel 304, with rear blow-out

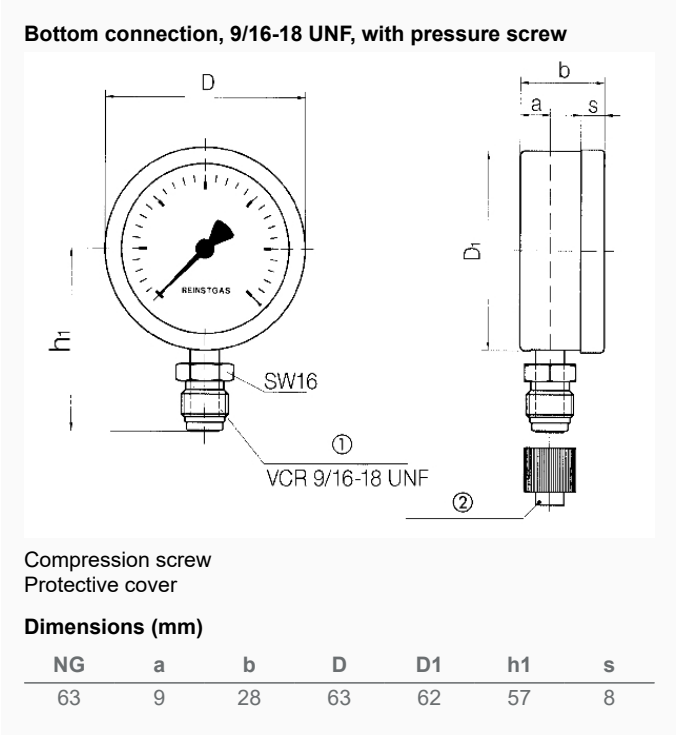
push on bezel

Stainless steel 304, bare metal surface

window

Plastic

Technical Drawings



Versions

Range	Mounting type	Type	Part number
-1/+0 bar	direct	RF63RG D302	87051302

-  in-stock items
-  Non-stock items