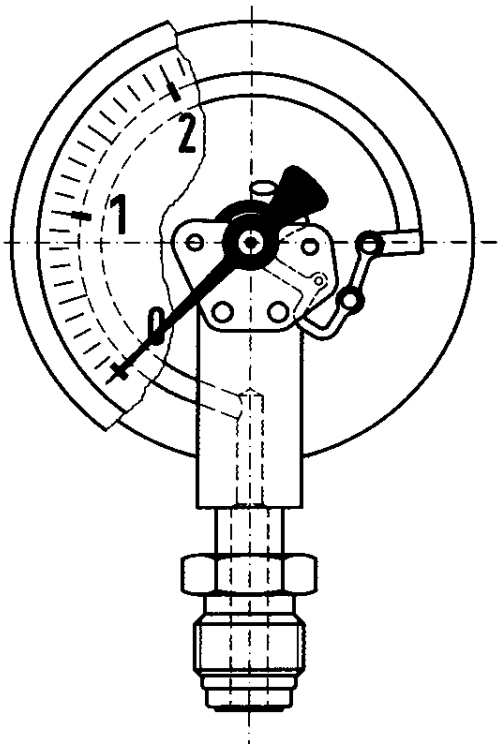


Bourdon tube pressure gauge RF63RG

Part no. 87102302

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: ¾ x full scale value
dynamic load: ⅔ 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 union nut

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

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

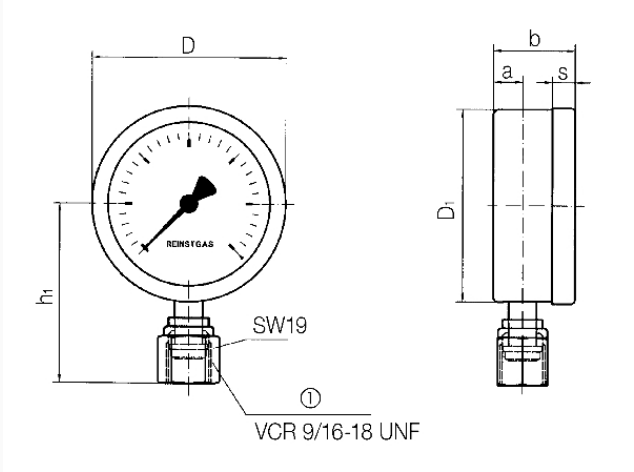
window
Plastic

Options

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

Technical Drawings

Bottom connection, 9/16-18 UNF, with union nut



Union nut

Dimensions (mm)

NG	a	b	D	D1	h1	s
63	9	28	63	62	57	8

Versions

Range	Mounting type	Type		Part number
-1/+0.6 bar	direct	RF63RG D302	●	87102302

● in-stock items

○ Non-stock items