



Bourdon tube pressure gauges for industrial applications RF100I

Part no. 85319301

Bourdon tube pressure gauges for industrial applications Type D3

benefits

- for machine and plant engineering
- robust stainless steel housing
- many customised versions available

Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys.

! For high measuring accuracy. For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical Specifications

Type

D3

Nominal size

100

accuracy class (EN 837-1/6)

1.0

ranges (EN 837-1/5)

see ordering table

application area

- ≤ 600 bar: Full scale value
- > 600 bar: ¾ x full scale value
- ≤ 600 bar: 0.9 x full scale value
- > 600 bar: ⅘ x full scale value
- ≤ 600 bar: 1.3 x full scale value
- > 600 bar: Full scale value

Operating temperature range

Medium: max. 60 °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)

Connection

Brass, bottom

Measuring element

Bourdon tube

≤ 60 bar: "C" type tube, Copper alloy

> 60 bar: helical tube, stainless steel 316 Ti/316 L

movement
Brass

Dial
Aluminium, white
Scaling: black

Pointer
Aluminium, black

Options

- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

Housing
Stainless steel 304

window
Plastic, clipped in

Technical Drawings

Bottom connection

The technical drawings show a front view and a side view of the gauge. The front view shows a circular dial with a pointer and a mounting bracket. Dimensions include NG (total width), h (height from dial center to bottom), and a mounting screw. The side view shows the cylindrical housing with dimensions a, b, s, c1, c2, G, and diameter Øc. A label 'SW' indicates the screw for the window.

Dimensions (mm)

NG	a	b	Øc	c1	c2	G	h	s	SW
100	15,6	44	6	3	20	G½B	86	3,5	22

Versions

Range	Mounting type	Type	Part number
0/60 bar	direct	RF100I D301	85319301

- in-stock items
- Non-stock items