



Bourdon tube pressure gauges for industrial applications RF100I

Part no. 85306451

Bourdon tube pressure gauges for industrial applications Type D4

benefits

- for machine and plant engineering
- robust, stainless steel housing with bayonet bezel
- can be equipped with electrical contact
- DNV-GL- and GOSSTANDART-certified

Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. For high accuracy and rough application conditions.

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

Technical Specifications

Type

D4

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: ⅔ 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 54 (EN 60529)

Connection

Brass, bottom back

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

bayonet bezel

Stainless steel 304

Housing

Stainless steel 304, with blow-out

window

Instrument glass

Options

- back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- laminated safety glass window
- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

Technical Drawings

bottom back connection, panel mounting bezel with clamp fixing



Dimensions (mm)

| NG | b3 | ∅c | c1 | c2 | d5 | d6 | e | G | g1 | s4 | SW |
|-----|----|----|----|----|-----|-----|------|-----|----|-----|----|
| 100 | 49 | 6 | 3 | 20 | 107 | 101 | 26,5 | G½B | 81 | 4 | 22 |
| 160 | 52 | 6 | 3 | 20 | 167 | 161 | 26,5 | G½B | 84 | 4,5 | 22 |
| 250 | - | 6 | 3 | 20 | - | - | - | G½B | - | - | 22 |

Versions

| Range | Mounting type | Type | Part number |
|-----------|---|----------------|-------------|
| -1/+9 bar | Panel mounting bezel, with clamp fixing | RF100I D451 | 85306451 |

● in-stock items

● Non-stock items