



Bourdon tube pressure gauges for chemical applications RF100Ch

Part no. 85211452

Bourdon tube pressure gauges for chemical applications Type D4

benefits

- for chemical and process engineering applications
- measuring system fully welded to housing
- extremely robust design
- for temperatures of the medium of up to 200 °C
- tightness-tested with helium
- DNV- and GOSSTANDART-certified
- Ex version (optional)

Application

For corrosive gaseous and liquid media which are not highly viscous and do not crystallise; suitable for corrosive environments.
! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2"!

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 NG100/160

≤ 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. 200 °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) with housing vent (≤ 25 bar)

Connection

Stainless steel 316 L, bottom back
 G½B, SW22 (EN 837-1/7.3)

Measuring element

Bourdon tube, stainless steel 316 Ti/316 L
 ≤ 60 bar: "C" type tube
 > 60 bar: helical tube
 tightness-tested with helium

movement

Stainless steel

Dial

Aluminium, white
 Scaling: black

Pointer

Aluminium, black

Housing

Stainless steel 304, with blow-out

bayonet bezel

Stainless steel 304

window

Laminated safety glass

Options

- back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- Ex version
- Crimped bezel, polished
- 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 | 34,5 | G½B | 83 | 4 | 22 |
| 160 | 52 | 6 | 3 | 20 | 167 | 161 | 34,5 | G½B | 86 | 4,5 | 22 |

Versions

| Range | Mounting type | Type | Part number |
|-----------|--|-----------------|-------------|
| 0/1.6 bar | Panel mounting bezel, with clamp fixing | RF100Ch D452 | 85211452 |

- in-stock items
- Non-stock items