



## Bourdon tube pressure gauges for chemical applications RF100Ch

**Part no. 85221452**

**Bourdon tube pressure gauge 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:  $\frac{3}{4}$  x full scale value  
≤ 600 bar: 0.9 x full scale value  
> 600 bar:  $\frac{2}{3}$  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.  $\pm 0.4$  %/10 K

falling temperature approx.  $\pm 0.4$  %/10 K

of full scale value

#### Degree of protection

IP 65 (EN 60529)

## standard version

### 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 | øc | 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 |
|-----------|--------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-------------|
| 0/160 bar | Panel mounting bezel,<br>with clamp fixing | RF100Ch<br>D452 |  | 85221452    |

-  in-stock items
-  Non-stock items