



## Bourdon tube pressure gauges for chemical applications RF100Ch

Part no. 85210412

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:  $\frac{3}{4}$  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 54 (EN 60529) with housing vent ( $\leq 25$  bar)

### Connection

Stainless steel 316 L, bottom back  
G $\frac{1}{2}$ B, SW22 (EN 837-1/7.3)

#### Measuring element

Bourdon tube, stainless steel 316 Ti/316 L  
 $\leq 60$  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

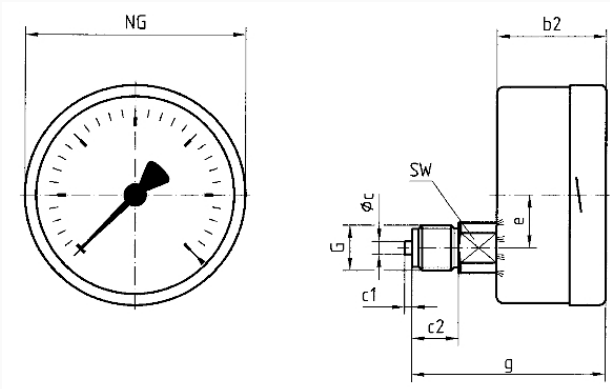
Laminated safety glass

### 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



#### Dimensions (mm)

| NG  | b2 | Øc | c1 | c2 | e    | G   | g  | SW |
|-----|----|----|----|----|------|-----|----|----|
| 100 | 49 | 6  | 3  | 20 | 34,5 | G½B | 83 | 22 |
| 160 | 50 | 6  | 3  | 20 | 34,5 | G½B | 84 | 22 |

Versions

| Range   | Mounting type | Type            |                                                                                     | Part number |
|---------|---------------|-----------------|-------------------------------------------------------------------------------------|-------------|
| 0/1 bar | direct        | RF100Ch<br>D412 |  | 85210412    |

-  in-stock items
-  Non-stock items