



## Bourdon tube pressure gauges for industrial applications RF100I

Part no. 85309401

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**  
 $\leq 600$  bar: Full scale value  
 $> 600$  bar:  $\frac{3}{4}$  x full scale value  
 $\leq 600$  bar: 0.9 x full scale value  
 $> 600$  bar:  $\frac{2}{3}$  x full scale value  
 $\leq 600$  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.  $\pm 0.4$  %/10 K  
 falling temperature approx.  $\pm 0.4$  %/10 K  
 of full scale value

### Degree of protection

IP 54 (EN 60529)

### Connection

Brass, bottom

### Measuring element

Bourdon tube  
 $\leq 60$  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

#### Housing

Stainless steel 304, with blow-out

#### bayonet bezel

Stainless steel 304

#### window

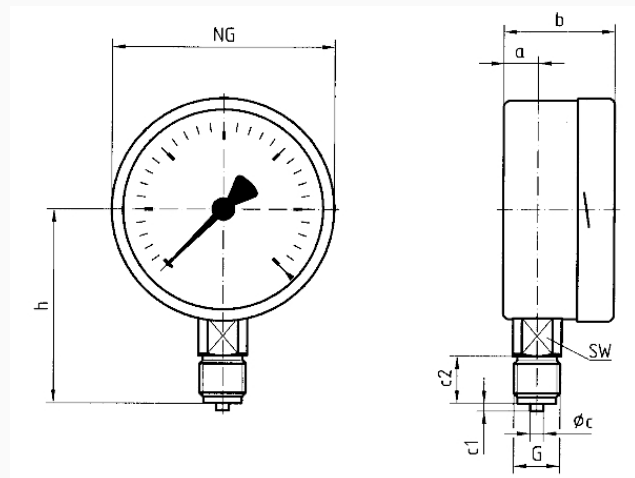
Instrument glass

### 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 connection



#### Dimensions (mm)

| NG  | a    | b  | φc | c1 | c2 | G   | h   | SW |
|-----|------|----|----|----|----|-----|-----|----|
| 100 | 15,6 | 49 | 6  | 3  | 20 | G½B | 86  | 22 |
| 160 | 17,5 | 50 | 6  | 3  | 20 | G½B | 116 | 22 |
| 250 | 16   | 57 | 6  | 3  | 20 | G½B | 165 | 22 |

Versions

| Range     | Mounting type | Type           |                                                                                     | Part number |
|-----------|---------------|----------------|-------------------------------------------------------------------------------------|-------------|
| 0/0.6 bar | direct        | RF100I<br>D401 |  | 85309401    |

-  in-stock items
-  Non-stock items