



## Bourdon tube pressure gauges for industrial applications RF100I

Part no. 85318311

Bourdon tube pressure gauges for industrial applications Type D3

### benefits

- for machine and plant engineering
- robust stainless steel housing
- many customised versions available

### Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys.

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

### Technical Specifications

#### Type

D3

#### 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.  $60^{\circ}\text{C}$

Ambient:  $-20/+60^{\circ}\text{C}$

#### Temperature performance

Indication error when the temperature of the measuring system deviates from the normal temperature of  $20^{\circ}\text{C}$ :

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 32 (EN 60529)

#### Connection

Brass, bottom back

#### 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

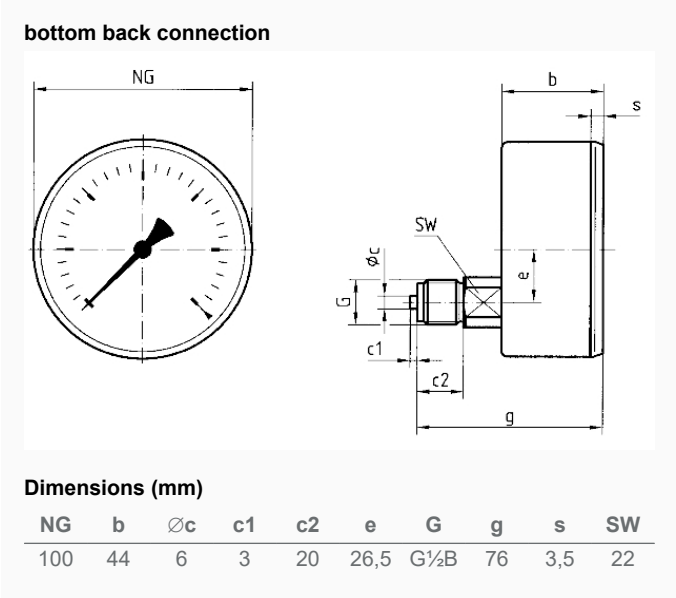
**Options**

- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

**Housing**  
Stainless steel 304

**window**  
Plastic, clipped in

**Technical Drawings**



**Versions**

| Range    | Mounting type | Type           | Part number |
|----------|---------------|----------------|-------------|
| 0/40 bar | direct        | RF100I<br>D311 | 85318311    |

- in-stock items
- Non-stock items