



## Bourdon tube pressure gauge RF100ISR

**Part no. 85313141**

**Bourdon tube pressure gauges with screw bezel housing type D1**

### benefits

- for machine and plant engineering
- extremely robust plastic housing (PA 6.6 GB30)
- laminated safety glass window
- higher accuracy class optional

### 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"

### Technical Specifications

#### Type

D1

#### Nominal size

100

#### accuracy class (EN 837-1/6)

1.0

#### ranges (EN 837-1/5)

see ordering table

#### application area

≤ 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. 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) with housing vent (≤ 25 bar)

## standard version

### Connection

Brass, bottom back

### Measuring element

Bourdon tube

≤ 60 bar: "C" type tube, Copper alloy

> 60 bar: helical tube, stainless steel 316 Ti/316 L

### movement

Brass

### Dial

Aluminium, white

Scaling: black

## Options

- Glycerine filling (type D 6)
- higher accuracy class
- throttle screw
- special scales
- other process connections
- micro-adjustable pointer

### Pointer

Aluminium, black

### Housing

plastic (PA 6.6 GB30), with blow-out

### Screw type bezel

plastic (PA 6.6 GB30)

### window

Laminated safety glass

## Technical Drawings

bottom back connection, with clamp fixing



Union nut

### Dimensions (mm)

| NG  | b2   | Øc | c1 | c2 | d4  | D   | e  | G   | g  | s2   |
|-----|------|----|----|----|-----|-----|----|-----|----|------|
| 100 | 52,5 | 6  | 3  | 20 | 101 | 114 | 34 | G½B | 91 | 17,5 |

Versions

| Range   | Mounting type | Type             |                                                                                     | Part number |
|---------|---------------|------------------|-------------------------------------------------------------------------------------|-------------|
| 0/4 bar | clamp fixing  | RF100ISR<br>D141 |  | 85313141    |

-  in-stock items
-  Non-stock items