



## 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

160

#### 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.  $\pm 0.4 \text{ } \%/10 \text{ K}$   
falling temperature approx.  $\pm 0.4 \text{ } \%/10 \text{ K}$   
of full scale value

#### Degree of protection

IP 54 (EN 60529)

#### 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

#### Pointer

Aluminium, black

#### Housing

Stainless steel 304, with blow-out

#### bayonet bezel

Stainless steel 304

#### window

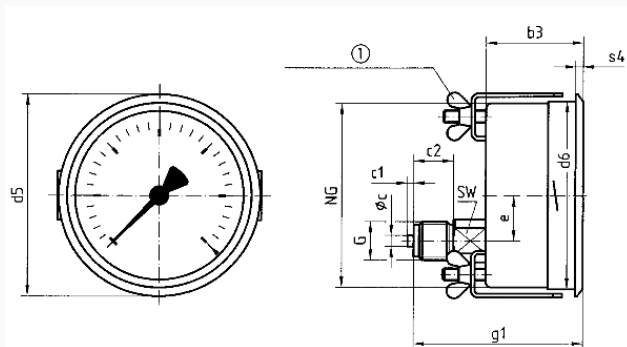
Instrument glass

### 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 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 | 26,5 | G½B | 81 | 4   | 22 |
| 160 | 52 | 6  | 3  | 20 | 167 | 161 | 26,5 | G½B | 84 | 4,5 | 22 |
| 250 | -  | 6  | 3  | 20 | -   | -   | -    | G½B | -  | -   | 22 |

## Versions

| Range       | Mounting type                              | Type           |   | Part number |
|-------------|--------------------------------------------|----------------|---|-------------|
| -1/+0 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85351451    |
| -1/+0.6 bar | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85352451    |
| -1/+1.5 bar | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85353451    |
| -1/+3 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85354451    |
| -1/+5 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85355451    |
| -1/+9 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85356451    |
| -1/+15 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85357451    |
| 0/0.6 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85359451    |
| 0/1 bar     | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85360451    |
| 0/1.6 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85361451    |
| 0/2.5 bar   | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85362451    |
| 0/4 bar     | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85363451    |
| 0/6 bar     | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85364451    |
| 0/10 bar    | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85365451    |
| 0/16 bar    | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85366451    |
| 0/25 bar    | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85367451    |
| 0/40 bar    | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85368451    |
| 0/60 bar    | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85369451    |

|            |                                            |                |   |          |
|------------|--------------------------------------------|----------------|---|----------|
| 0/100 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85370451 |
| 0/160 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85371451 |
| 0/250 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85372451 |
| 0/400 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85373451 |
| 0/600 bar  | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85374451 |
| 0/1000 bar | Panel mounting bezel,<br>with clamp fixing | RF160I<br>D451 | ● | 85375451 |

● in-stock items

● Non-stock items