# Bourdon tube pressure gauges for industrial applications RF100l

**Part no. 85310401**

**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**
≤ 600 bar: Full scale value
> 600 bar: ¾ x full scale value
≤ 600 bar: 0.9 x full scale value
> 600 bar: ⅔ 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. ± 0.4 %/10 K
falling temperature approx. ± 0.4 %/10 K
of full scale value

**Degree of protection**
IP 54 (EN 60529)

## standard version

**Connection**
Brass, bottom

**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

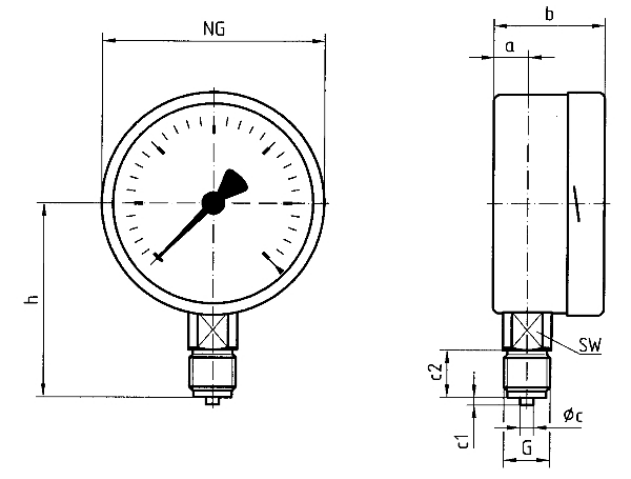
**window**
Instrument glass

## 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 connection**




**Dimensions (mm)**

| NG | a | b | ∅c | 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 |
|---|---|---|---|---|
| 0/1 bar | direct | RF100I D401 | ● | 85310401 |

● in-stock items

○ Non-stock items