



## Bourdon tube pressure gauges for chemical applications RF50Ch

Part no. 85061902

Bourdon tube pressure gauges for chemical applications Type D9

### benefits

- for chemical and process engineering applications
- measuring system fully welded to housing
- extremely robust design
- for temperatures of the medium of up to 200 °C
- tightness-tested with helium
- GOSSTANDART-certified
- Ex version (optional)

### Application

For corrosive gaseous and liquid media which are not highly viscous and do not crystallise; suitable for corrosive environments.

! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2"!

### Technical Specifications

**Type**  
D9

**Nominal size**  
50

**accuracy class**  
EN 837-1/6  
NG 50  
1.6

**ranges (EN 837-1/5)**  
see ordering table

**application area**  
static load:  $\frac{1}{4}$  x full scale value  
dynamic load:  $\frac{1}{2}$  x full scale value  
short-term: Full scale value

### Operating temperature range

NG 50  
max. 150 °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 ( $\leq 25$  bar)

### Connection

Stainless steel 316 L, bottom

#### Measuring element

Bourdon tube, stainless steel 316 Ti/316 L  
 ≤ 60 bar: "C" type tube  
 > 60 bar: helical tube  
 tightness-tested with helium

#### movement

Stainless steel

#### Dial

Aluminium, white  
 Scaling: black

#### Pointer

Aluminium, black

#### Housing

Stainless steel 304, with blow-out

#### bayonet bezel

NG 50  
 Stainless steel 304

#### crimped bezel

NG 50

#### window

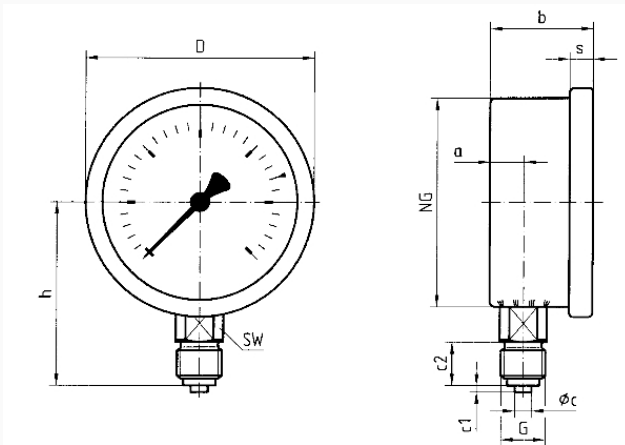
NG 50  
 Plastic

### Options

- Brass movement
- Back flange (NG 63)
- clamp fixing
- Ex version
- Crimped bezel, polished
- special scales
- other process connections

### Technical Drawings

NG 50/63 – bottom connection



Dimensions (mm)

| NG | a    | b  | Øc | c1 | c2 | D  | G                 | h  | s   | SW |
|----|------|----|----|----|----|----|-------------------|----|-----|----|
| 50 | 10,5 | 28 | 5  | 2  | 13 | 53 | G $\frac{1}{4}$ B | 46 | 4,5 | 14 |
| 63 | 11,5 | 32 | 5  | 2  | 13 | 68 | G $\frac{1}{4}$ B | 53 | 7   | 14 |

Versions

| Range     | Mounting type | Type           |                                                                                     | Part number |
|-----------|---------------|----------------|-------------------------------------------------------------------------------------|-------------|
| 0/1.6 bar | direct        | RF50Ch<br>D902 |  | 85061902    |

-  in-stock items
-  Non-stock items