



## Bourdon tube pressure gauges for chemical applications RF50Ch

**Part no. 85068912**

**Bourdon tube pressure gauge 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:  $\frac{3}{4}$  x full scale value

dynamic load:  $\frac{2}{3}$  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 65 (EN 60529)

### standard version

#### Connection

Stainless steel 316 L, bottom back

#### 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

#### crimped bezel

NG 50

Stainless steel 304

#### window

NG 50

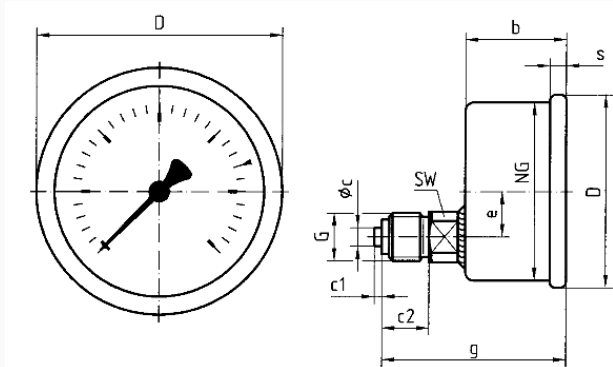
Plastic

### Options

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

### Technical Drawings

NG 50 – bottom back connection



Dimensions (mm)

| NG | b  | φc | c1 | c2 | D  | e    | G     | g  | s   | SW |
|----|----|----|----|----|----|------|-------|----|-----|----|
| 50 | 28 | 5  | 2  | 13 | 53 | 12,5 | G1/4B | 51 | 4,5 | 14 |

Versions

| Range    | Mounting type | Type           |                                                                                     | Part number |
|----------|---------------|----------------|-------------------------------------------------------------------------------------|-------------|
| 0/40 bar | direct        | RF50Ch<br>D912 |  | 85068912    |

-  in-stock items
-  Non-stock items