



## Bourdon tube pressure gauges for chemical applications RF50ChGly

Part no. 85053702

Bourdon tube pressure gauge for chemical applications type D7 with glycerine filling

### benefits

- for chemical and process engineering applications
- measuring system fully welded to housing
- extremely robust design
- can be used in case of heavy vibrations and high, dynamic pressure loads
- tightness-tested with helium
- DNV- and 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 measurements in areas with high vibration levels and high, dynamic pressure loads.

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

### Technical Specifications

#### Type

D7

#### Nominal size

50

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

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

Medium: max. 100 °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**

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

**Options**

- Filling liquid silicone oil
- plastic window (NG 63)
- Back flange (NG 63)
- clamp fixing
- Ex version
- Crimped bezel, polished
- special scales
- other process connections

**Housing**

Stainless steel 304, with blow-out

**bayonet bezel**

NG 50

**crimped bezel**

Stainless steel 304

**window**

NG 50

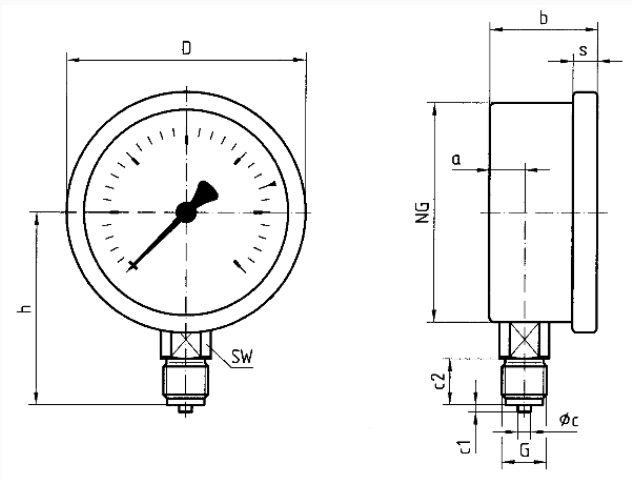
Plastic

**filling liquid**

glycerine (99.5 %)

Technical Drawings

NG 50/63 – bottom connection



Dimensions (mm)

| NG | a    | b  | ∅c | 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 |
|-------------|---------------|-------------------|-------------|
| -1/+1.5 bar | direct        | RF50ChGly<br>D702 | 85053702    |

-  in-stock items
-  Non-stock items