



## Bourdon tube pressure gauges for chemical applications RF100ChGly

Part no. 85224832

Bourdon tube pressure gauge for chemical applications type D8 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**  
D8

**Nominal size**  
100

**accuracy class (EN 837-1/6)**  
1.0

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

**application area**  
 $\leq 600$  bar: Full scale value  
 $> 600$  bar:  $\frac{3}{4}$  x full scale value  
 $\leq 600$  bar: 0.9 x full scale value  
 $> 600$  bar:  $\frac{2}{3}$  x full scale value  
 $\leq 600$  bar: 1.3 x full scale value  
 $> 600$  bar: 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 65 (EN 60529)

### standard version

**Connection**

stainless steel 316 Ti/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

### Options

- Filling liquid silicone oil
- Brass movement
- back flange
- 3-hole fixing, panel mounting bezel
- Ex version
- Electrical contacts
- special scales
- other process connections

**Pointer**

Aluminium, black

**Housing**

Stainless steel 304, with blow-out

**bayonet bezel**

Stainless steel 304

**window**

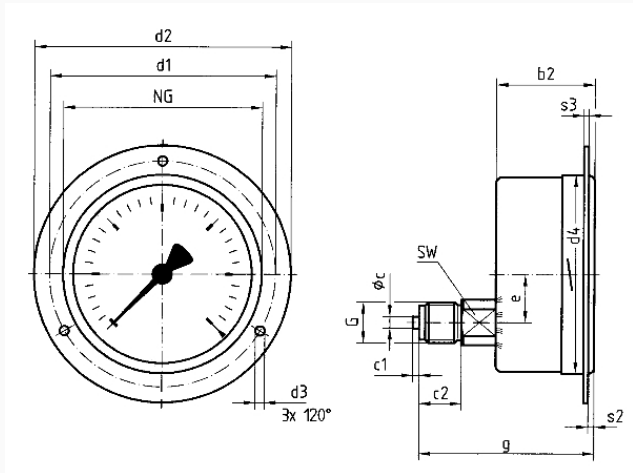
Laminated safety glass

**filling liquid**

glycerine (99.5 %)

## Technical Drawings

bottom back connection, 3-hole fixing, panel mounting bezel



### Dimensions (mm)

| NG  | b2 | Øc | c1 | c2 | d1  | d2  | d3   | d4  | e    | G   | g  | s2 | s3 | SW |
|-----|----|----|----|----|-----|-----|------|-----|------|-----|----|----|----|----|
| 100 | 49 | 6  | 3  | 20 | 116 | 132 | 4,8* | 104 | 34,5 | G½B | 83 | 4  | 2  | 22 |
| 160 | 50 | 6  | 3  | 20 | 178 | 196 | 5,8  | 164 | 34,5 | G½B | 84 | 4  | 2  | 22 |

\* Dimensions as per DIN 16064

## Versions

| Range     | Mounting type                       | Type               | Part number |
|-----------|-------------------------------------|--------------------|-------------|
| 0/600 bar | 3-hole fixing, panel mounting bezel | RF100ChGly<br>D832 | 85224832    |

- in-stock items
- Non-stock items