



Bourdon tube pressure gauges for chemical applications RF100ChGly

Part no. 85212832

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
 ≤ 600 bar: Full scale value
 > 600 bar: $\frac{3}{4}$ x full scale value
 ≤ 600 bar: 0.9 x full scale value
 > 600 bar: $\frac{2}{3}$ x full scale value
 ≤ 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. ± 0.4 %/10 K
 falling temperature approx. ± 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 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
0/2.5 bar	3-hole fixing, panel mounting bezel	RF100ChGly D832	85212832

- in-stock items
- Non-stock items