



Bourdon tube pressure gauge for chemical applications type D8 with glycerine filling

housing $\varnothing$ (nominal size)	100 mm
Connection	G $\frac{1}{2}$ B
alignment	bottom
accuracy class	1.0
standard	EN 837-1

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

Connection

stainless steel 316 Ti/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
Stainless steel 304

window
Laminated safety glass

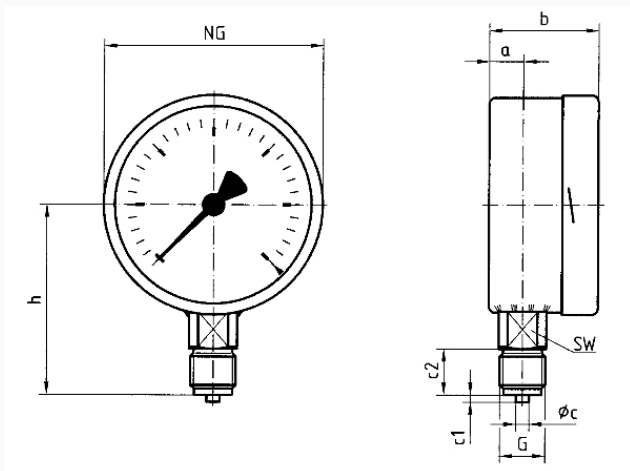
filling liquid
glycerine (99.5 %)

Options

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

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	Øc	c1	c2	G	h	SW
100	15,6	49	6	3	20	G½B	86	22
160	17,5	50	6	3	20	G½B	116	22

Versions

Range	Mounting type	Type		Part number
-1/+0 bar	direct	RF100ChGly D802		85201802
-1/+0.6 bar	direct	RF100ChGly D802		85202802
-1/+1.5 bar	direct	RF100ChGly D802		85203802
-1/+3 bar	direct	RF100ChGly D802		85204802
-1/+5 bar	direct	RF100ChGly D802		85205802
-1/+9 bar	direct	RF100ChGly D802		85206802
-1/+15 bar	direct	RF100ChGly D802		85207802
0/0.6 bar	direct	RF100ChGly D802		85209802
0/1 bar	direct	RF100ChGly D802		85210802
0/1.6 bar	direct	RF100ChGly D802		85211802
0/2.5 bar	direct	RF100ChGly D802		85212802
0/4 bar	direct	RF100ChGly D802		85213802
0/6 bar	direct	RF100ChGly D802		85214802
0/10 bar	direct	RF100ChGly D802		85215802
0/16 bar	direct	RF100ChGly D802		85216802
0/25 bar	direct	RF100ChGly D802		85217802
0/40 bar	direct	RF100ChGly D802		85218802
0/60 bar	direct	RF100ChGly D802		85219802

0/100 bar	direct	RF100ChGly D802	●	85220802
0/160 bar	direct	RF100ChGly D802	●	85221802
0/250 bar	direct	RF100ChGly D802	●	85222802
0/400 bar	direct	RF100ChGly D802	●	85223802
0/600 bar	direct	RF100ChGly D802	●	85224802
0/1000 bar	direct	RF100ChGly D802	●	85225802

● in-stock items

● Non-stock items