



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. $\pm 0.4 \text{ \%}/10 \text{ K}$

falling temperature approx. $\pm 0.4 \text{ \%}/10 \text{ K}$

of full scale value

Connection

Stainless steel 316 L, bottom

Measuring element

Bourdon tube, stainless steel 316 Ti/316 L

$\leq 60 \text{ bar}$: "C" type tube

$> 60 \text{ bar}$: 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

Stainless steel 304

window

NG 50
Plastic

filling liquid

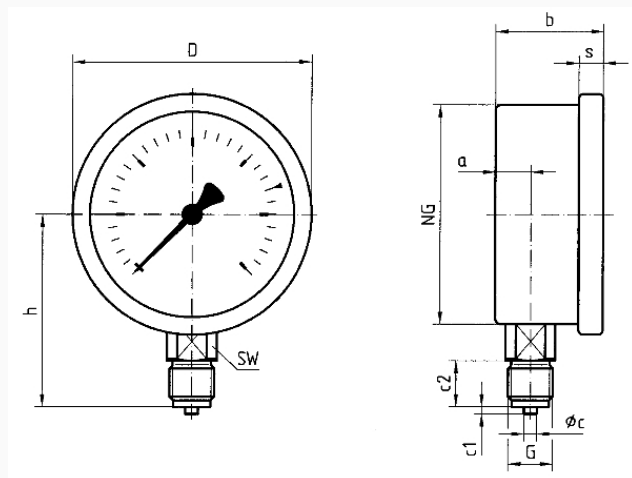
glycerine (99.5 %)

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

Technical Drawings

NG 50/63 – bottom connection



Dimensions (mm)

NG	a	b	Øc	c1	c2	D	G	h	s	SW
50	10,5	28	5	2	13	53	G1/4B	46	4,5	14
63	11,5	32	5	2	13	68	G1/4B	53	7	14

Versions

Range	Mounting type	Type		Part number
-1/+0 bar	direct	RF50ChGly D702	●	85051702
-1/+0.6 bar	direct	RF50ChGly D702	●	85052702
-1/+1.5 bar	direct	RF50ChGly D702	●	85053702
-1/+3 bar	direct	RF50ChGly D702	●	85054702
-1/+5 bar	direct	RF50ChGly D702	●	85055702
-1/+9 bar	direct	RF50ChGly D702	●	85056702
-1/+15 bar	direct	RF50ChGly D702	●	85057702
0/0.6 bar	direct	RF50ChGly D702	●	85059702
0/1 bar	direct	RF50ChGly D702	●	85060702
0/1.6 bar	direct	RF50ChGly D702	●	85061702
0/2.5 bar	direct	RF50ChGly D702	●	85062702
0/4 bar	direct	RF50ChGly D702	●	85063702
0/6 bar	direct	RF50ChGly D702	●	85064702
0/10 bar	direct	RF50ChGly D702	●	85065702
0/16 bar	direct	RF50ChGly D702	●	85066702
0/25 bar	direct	RF50ChGly D702	●	85067702
0/40 bar	direct	RF50ChGly D702	●	85068702
0/60 bar	direct	RF50ChGly D702	●	85069702

0/100 bar	direct	RF50ChGly D702	●	85070702
0/160 bar	direct	RF50ChGly D702	●	85071702
0/250 bar	direct	RF50ChGly D702	●	85072702
0/400 bar	direct	RF50ChGly D702	●	85073702
0/600 bar	direct	RF50ChGly D702	●	85074702

● in-stock items

● Non-stock items