

Bourdon tube pressure gauges for chemical applications RF50Ch

Part no. 85070952

Bourdon tube pressure gauges for chemical applications Type D9

benefits

- for chemical and process engineering applications
- measuring system fully welded to housing
- extremely robust design
- for temperatures of the medium of up to 200 °C
- tightness-tested with helium
- GOSSTANDARD-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 measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2"!

Technical Specifications

Type
D9

Nominal size
50

accuracy class
EN 837-1/6
NG 50
1.6

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

application area
static load: $\frac{3}{4}$ x full scale value
dynamic load: $\frac{3}{5}$ x full scale value
short-term: Full scale value

Operating temperature range

NG 50
max. 150 °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. $\pm 0.4\% / 10\text{ K}$
falling temperature approx. $\pm 0.4\% / 10\text{ K}$
of full scale value

Degree of protection
IP 65 (EN 60529)

Connection
Stainless steel 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

Pointer

Aluminium, black

Options

- Brass movement
- 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

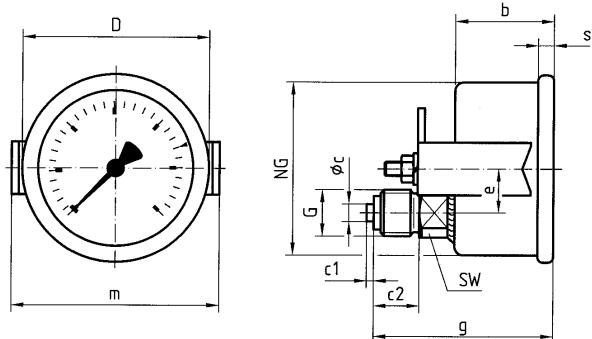
NG 50
 Stainless steel 304

crimped bezel

NG 50

window

NG 50
 Plastic

Technical Drawings
NG 50 – bottom back connection, with clamp fixing

Dimensions (mm)

NG	b	Øc	c1	c2	D	e	G	g	m	s	SW
50	28	5	2	13	53	12,5	G 1/4 B	51	59	4,5	14

Versions

Range	Mounting type	Type	Part number
0/100 bar	clamp fixing	RF50Ch D952	85070952

 in-stock items

 Non-stock items