Bourdon tube pressure gauges for chemical applications RF50Ch

Part no. 85061902

Bourdon tube pressure gauge 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
- 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 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: ¾ x full scale value
dynamic load: ⅔ 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. ± 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 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
NG 50
Stainless steel 304

crimped bezel
NG 50

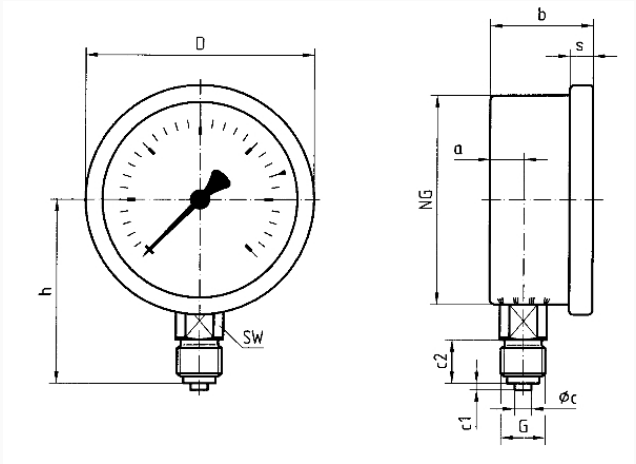
window
NG 50
Plastic

Options

- Brass movement
- 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	∅c	c1	c2	D	G	h	s	SW
50	10,5	28	5	2	13	53	G¼B	46	4,5	14
63	11,5	32	5	2	13	68	G¼B	53	7	14

Versions

Range	Mounting type	Type		Part number
0/1.6 bar	direct	RF50Ch D902	●	85061902

● in-stock items

● Non-stock items