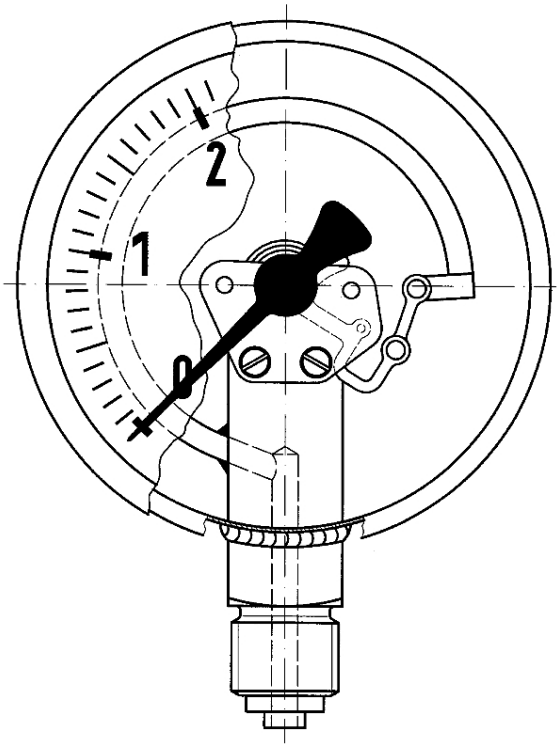


Bourdon tube pressure gauges for chemical applications RF160Ch

Part no. 85270412

Bourdon tube pressure gauge for chemical applications type D4

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
- 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 measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2"!

Technical Specifications

Type
D4

Nominal size
160

accuracy class (EN 837-1/6)
1.0

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

Application area NG100/160
≤ 600 bar: Full scale value
> 600 bar: ¾ x full scale value
≤ 600 bar: 0.9 x full scale value
> 600 bar: ⅔ x full scale value
≤ 600 bar: 1.3 x full scale value
> 600 bar: Full scale value

Operating temperature range
Medium: max. 200 °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 65 (EN 60529)

standard version

Connection
Stainless steel 316 L, bottom back
G½B, SW22 (EN 837-1/7.3)

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

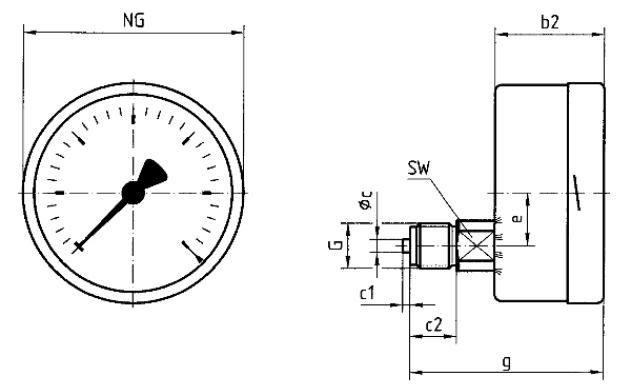
window
Laminated safety glass

Options

- back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- Ex version
- Crimped bezel, polished
- Electrical contacts
- special scales
- other process connections

Technical Drawings

bottom back connection



Dimensions (mm)

NG	b2	∅c	c1	c2	e	G	g	SW
100	49	6	3	20	34,5	G½B	83	22
160	50	6	3	20	34,5	G½B	84	22

Versions

Range	Mounting type	Type		Part number
0/100 bar	direct	RF160Ch D412	●	85270412

● in-stock items

● Non-stock items