



Bourdon tube pressure gauges for chemical applications RF100Ch

Part no. 85205412

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

100

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: $\frac{3}{4}$ 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. 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 54 (EN 60529) with housing vent (≤ 25 bar)

standard version

Connection

Stainless steel 316 L, bottom back
G $\frac{1}{2}$ B, 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	Øc	c1	c2	e	G	g	SW
100	49	6	3	20	34,5	G $\frac{1}{2}$ B	83	22
160	50	6	3	20	34,5	G $\frac{1}{2}$ B	84	22

Versions

Range	Mounting type	Type		Part number
-1/+5 bar	direct	RF100Ch D412		85205412

-  in-stock items
-  Non-stock items