



Bourdon tube pressure gauges for industrial applications type D3

housing $\varnothing$ (nominal size)	100 mm
Connection	G $\frac{1}{2}$ B
alignment	bottom
accuracy class	1.0
standard	EN 837-1

benefits

- for machine and plant engineering
- robust stainless steel housing
- many customised versions available

Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys.

! For high measuring accuracy. For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical Specifications

Type

D3

Nominal size

100

accuracy class (EN 837-1/6)

1.0

ranges (EN 837-1/5)

see ordering table

application area

≤ 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. 60 °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 32 (EN 60529)

Connection

Brass, bottom

Measuring element

Bourdon tube

≤ 60 bar: "C" type tube, Copper alloy

> 60 bar: helical tube, stainless steel 316 Ti/316 L

movement
Brass

Dial
Aluminium, white
Scaling: black

Pointer
Aluminium, black

Housing
Stainless steel 304

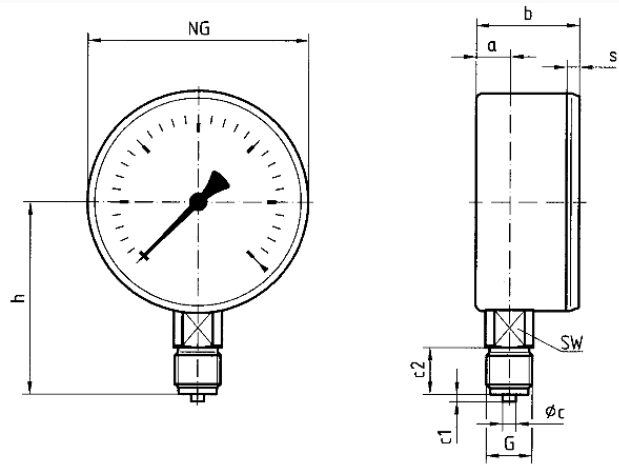
window
Plastic, clipped in

Options

- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	Øc	c1	c2	G	h	s	SW
100	15,6	44	6	3	20	G½B	86	3,5	22

Versions

Range	Mounting type	Type		Part number
-1/+0 bar	direct	RF100I D301	●	85301301
-1/+0.6 bar	direct	RF100I D301	●	85302301
-1/+1.5 bar	direct	RF100I D301	●	85303301
-1/+3 bar	direct	RF100I D301	●	85304301
-1/+5 bar	direct	RF100I D301	●	85305301
-1/+9 bar	direct	RF100I D301	●	85306301
-1/+15 bar	direct	RF100I D301	●	85307301
0/0.6 bar	direct	RF100I D301	●	85309301
0/1 bar	direct	RF100I D301	●	85310301
0/1.6 bar	direct	RF100I D301	●	85311301
0/2.5 bar	direct	RF100I D301	●	85312301
0/4 bar	direct	RF100I D301	●	85313301
0/6 bar	direct	RF100I D301	●	85314301
0/10 bar	direct	RF100I D301	●	85315301
0/16 bar	direct	RF100I D301	●	85316301
0/25 bar	direct	RF100I D301	●	85317301
0/40 bar	direct	RF100I D301	●	85318301
0/60 bar	direct	RF100I D301	●	85319301

0/100 bar	direct	RF100I D301	●	85320301
0/160 bar	direct	RF100I D301	●	85321301
0/250 bar	direct	RF100I D301	●	85322301
0/400 bar	direct	RF100I D301	●	85323301
0/600 bar	direct	RF100I D301	●	85324301
0/1000 bar	direct	RF100I D301	●	85325301

● in-stock items

● Non-stock items