Bourdon tube pressure gauges for industrial applications type D4

housing ⌀ (nominal size)	100 mm
Connection	G½B
alignment	bottom back
accuracy class	1.0
standard	EN 837-1

benefits

- for machine and plant engineering
- robust, stainless steel housing with bayonet bezel
- can be equipped with electrical contact
- DNV-GL- and GOSSTANDART-certified

Application

For gaseous and liquid media which are not highly viscous, do not crystallise and do not attack copper alloys. For high accuracy and rough application conditions.
! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

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
≤ 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. 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 54 (EN 60529)

Connection
Brass, bottom back

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, with blow-out

bayonet bezel
Stainless steel 304

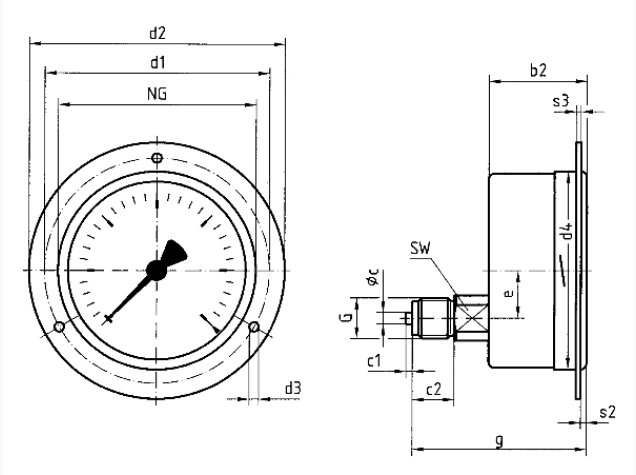
window
Instrument glass

Options

- back flange
- Panel mounting bezel
- 3-hole fixing, panel mounting bezel
- laminated safety glass window
- throttle screw
- Reference pointer
- Electrical contacts
- special scales
- other process connections

Technical Drawings

bottom back connection, 3-hole fixing, panel mounting bezel



Dimensions (mm)

NG	b2	∅c	c1	c2	d1*	d2	d3*	d4	e	G	g	s2	s3	SW
100	49	6	3	20	116	132	4,8	104	26,5	G½B	81	4	2	22
160	50	6	3	20	178	196	5,8	164	26,5	G½B	82	4	2	22
250	-	6	3	20	270	285	5,8	-	-	G½B	-	-	-	22

* Dimensions for NG 100 according to DIN 16064

Versions

Range	Mounting type	Type	Part number
-1/+0 bar	3-hole fixing, panel mounting bezel	RF100I D431	85301431
-1/+0.6 bar	3-hole fixing, panel mounting bezel	RF100I D431	85302431
-1/+1.5 bar	3-hole fixing, panel mounting bezel	RF100I D431	85303431
-1/+3 bar	3-hole fixing, panel mounting bezel	RF100I D431	85304431
-1/+5 bar	3-hole fixing, panel mounting bezel	RF100I D431	85305431
-1/+9 bar	3-hole fixing, panel mounting bezel	RF100I D431	85306431
-1/+15 bar	3-hole fixing, panel mounting bezel	RF100I D431	85307431
0/0.6 bar	3-hole fixing, panel mounting bezel	RF100I D431	85309431
0/1 bar	3-hole fixing, panel mounting bezel	RF100I D431	85310431
0/1.6 bar	3-hole fixing, panel mounting bezel	RF100I D431	85311431
0/2.5 bar	3-hole fixing, panel mounting bezel	RF100I D431	85312431
0/4 bar	3-hole fixing, panel mounting bezel	RF100I D431	85313431
0/6 bar	3-hole fixing, panel mounting bezel	RF100I D431	85314431
0/10 bar	3-hole fixing, panel mounting bezel	RF100I D431	85315431
0/16 bar	3-hole fixing, panel mounting bezel	RF100I D431	85316431
0/25 bar	3-hole fixing, panel mounting bezel	RF100I D431	85317431
0/40 bar	3-hole fixing, panel mounting bezel	RF100I D431	85318431
0/60 bar	3-hole fixing, panel mounting bezel	RF100I D431	85319431

0/100 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85320431
0/160 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85321431
0/250 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85322431
0/400 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85323431
0/600 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85324431
0/1000 bar	3-hole fixing, panel mounting bezel	RF100I D431	○	85325431

● in-stock items

○ Non-stock items