



Bourdon tube pressure gauge RF100ISR

Part no. 85317101

Bourdon tube pressure gauge with screw bezel housing type D1

benefits

- for machine and plant engineering
- extremely robust plastic housing (PA 6.6 GB30)
- laminated safety glass window
- higher accuracy class optional

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"

Technical Specifications

Type
D1

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 54 (EN 60529) with housing vent (≤ 25 bar)

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

plastic (PA 6.6 GB30), with blow-out

Screw type bezel

plastic (PA 6.6 GB30)

window

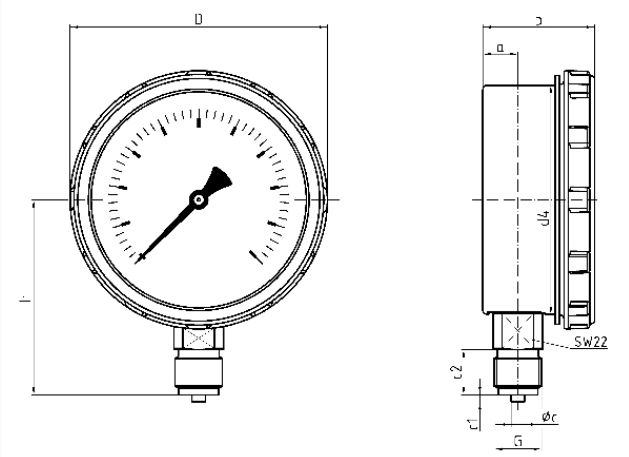
Laminated safety glass

Options

- Glycerine filling (type D 6)
- higher accuracy class
- throttle screw
- special scales
- other process connections
- micro-adjustable pointer

Technical Drawings

Bottom connection



Dimensions (mm)

NG	a	b	Øc	c1	c2	d4	D	G	h
100	15,5	50	6	3	20	101	114	G½B	86

Versions

Range	Mounting type	Type	Part number
0/25 bar	direct	RF100ISR D101	85317101

- in-stock items
- Non-stock items