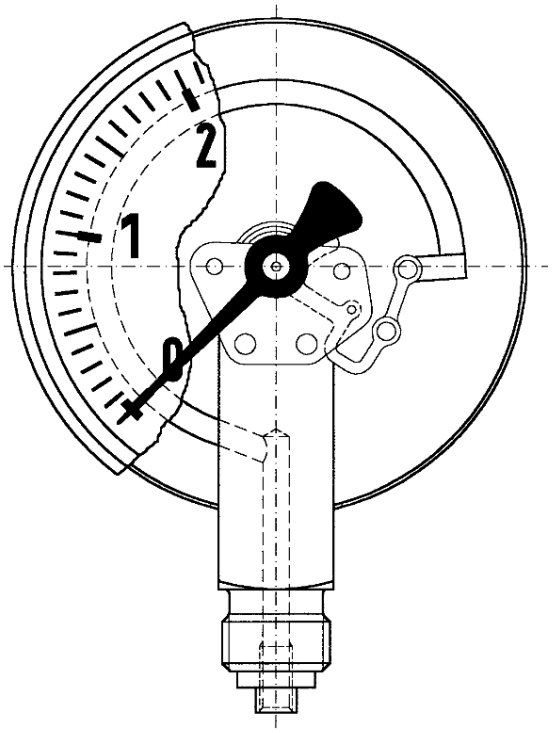


Bourdon tube pressure gauge RF100ISR

Part no. 85305171

Bourdon tube pressure gauges 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: 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) with housing vent (≤ 25 bar)

standard version

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)

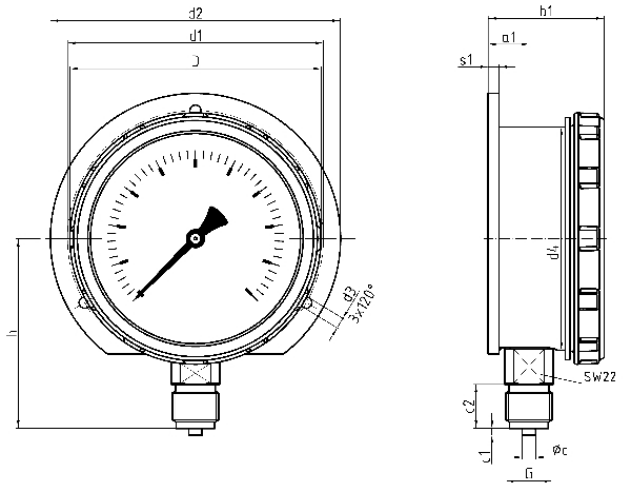
window
Laminated safety glass

Options

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

Technical Drawings

Bottom connection, back flange



Dimensions (mm)

NG	a1	b1	∅c	c1	c2	d1	d2	d3	d4	D	G	h	s1
100	18,5	52,5	6	3	20	116	131,5	5	101	114	G½B	86	5

Versions

Range	Mounting type	Type		Part number
-1/+5 bar	back flange	RF100ISR D171	●	85305171

● in-stock items

○ Non-stock items