



Standard Bourdon tube pressure gauges for refrigeration engineering type D8 with glycerine filling



Benefits

- Can be used in case of heavy vibrations and high, dynamic pressure loads
- Longer service life due to less wear and corrosion protection of the measuring system
- Various refrigerants measurable with multiple scales
- DNV- and GOSSTANDART-certified



Application

For simultaneous measurement of vapour pressures and temperatures in refrigeration engineering.
! For measuring gas or vapour, observe the table "Selection Criteria as per EN 837-2" (see appendix)!

Technical specifications

Type

D8

Nominal size

100

Accuracy class (EN 837-1/6)

1,0

Ranges

-1/+12.5 bar

-1/+15 bar

-1/+24 bar

Temperature scales

For cooling agent: R 717 (NH₃)

Application area

Static load: ¼ x full scale value

Dynamic load: ¾ x full scale value

Short-term: Full scale value

Operating temperature range

Medium: According to cooling agent

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)



Standard version

Connection

Stainless steel 316 Ti/316 L, bottom or bottom back
G½B

Measuring element

Bourdon tube, stainless steel 316 Ti/316 L
"C" type tube

Movement

Brass

Dial

Aluminium, white
Pressure dial marking black
Temperature dial marking coloured

Pointer

Aluminium, black

Housing

Stainless steel 304, with blow-out

Crimped bezel

Stainless steel 304

Window

Plastic

Filling liquid

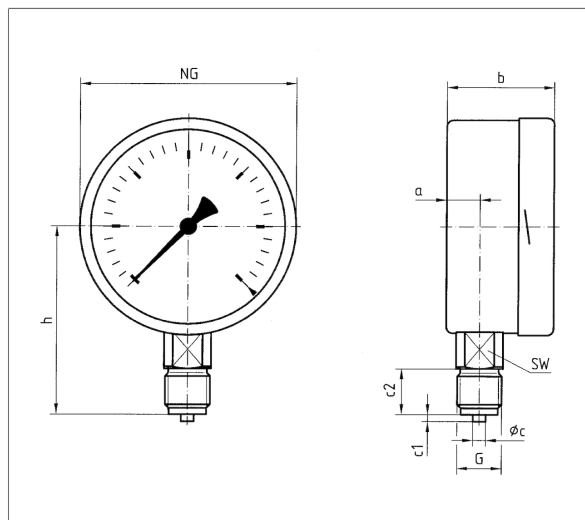
Glycerine (99.5 %)

Options

- Temperature scales for other refrigerants
- Back flange
- Clamp fixing
- 3-hole fixing, panel mounting bezel (NG 63/100)
- Damping screw
- Special scales
- Other process connections
- 7/16 – 20 UNF SAE J513 (45°)

Technical drawings

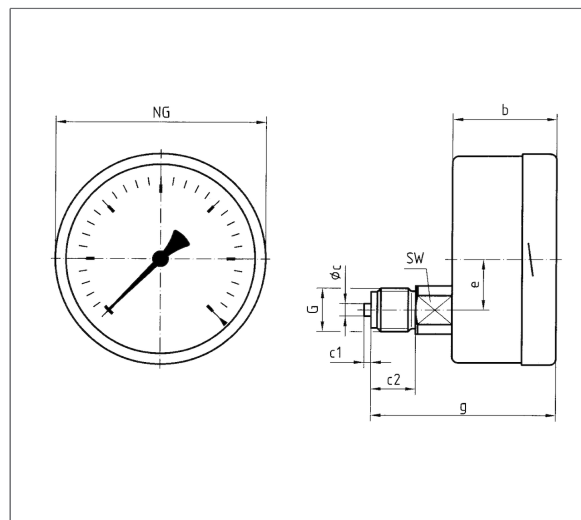
Bottom connection



Dimensions (mm)

| NG | a | b | ∅c | c1 | c2 | G | h | SW |
|-----|------|----|----|----|----|-----|----|----|
| 100 | 15,6 | 49 | 6 | 3 | 20 | G½B | 86 | 22 |

bottom back connection



Dimensions (mm)

| NG | b | ∅c | c1 | c2 | e | g | G | SW |
|-----|----|----|----|----|------|----|-----|----|
| 100 | 49 | 6 | 3 | 20 | 26,5 | 81 | G½B | 22 |




Versions

RF100KTGly D802

| | Housing \varnothing | Connection | Alignment | Housing | Accuracy class | Range | Type | Part no. |
|---|-----------------------|-------------------|-----------|---------------------|----------------|--------------|-----------------|----------|
|  | 100 mm | G $\frac{1}{2}$ B | Bottom | Stainless steel 304 | 1,0 | -1/+12.5 bar | RF100KTGly D802 | 85231802 |
| | 100 mm | G $\frac{1}{2}$ B | Bottom | Stainless steel 304 | 1,0 | -1/+15 bar | RF100KTGly D802 | 85232802 |
| | 100 mm | G $\frac{1}{2}$ B | Bottom | Stainless steel 304 | 1,0 | -1/+24 bar | RF100KTGly D802 | 85233802 |

Blue part no. = in-stock items

RF100KTGly D812

| | Housing \varnothing | Connection | Alignment | Housing | Accuracy class | Range | Type | Part no. |
|---|-----------------------|-------------------|-------------|---------------------|----------------|--------------|-----------------|----------|
|  | 100 mm | G $\frac{1}{2}$ B | Bottom back | Stainless steel 304 | 1,0 | -1/+12.5 bar | RF100KTGly D812 | 85231812 |
| | 100 mm | G $\frac{1}{2}$ B | Bottom back | Stainless steel 304 | 1,0 | -1/+15 bar | RF100KTGly D812 | 85232812 |
| | 100 mm | G $\frac{1}{2}$ B | Bottom back | Stainless steel 304 | 1,0 | -1/+24 bar | RF100KTGly D812 | 85233812 |

Blue part no. = in-stock items