



## 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 (NH<sub>3</sub>)

#### 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

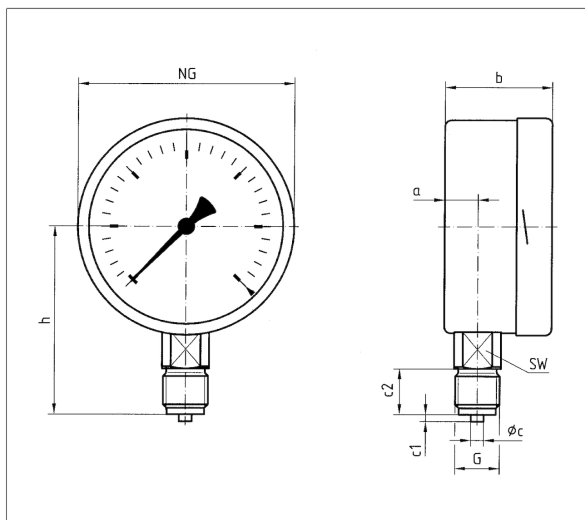
Glycerine (99.5 %)

## 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

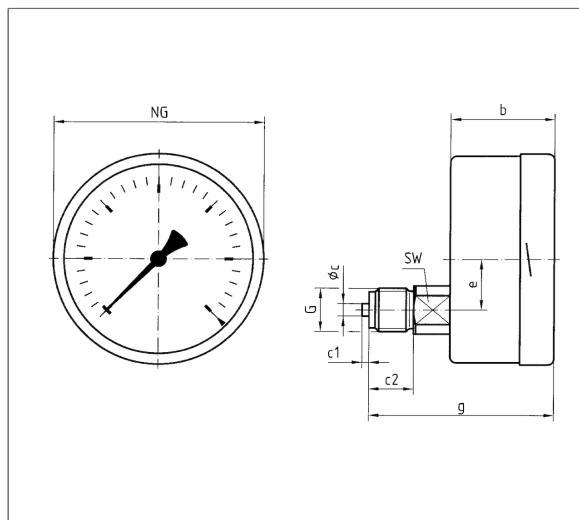
### Bottom connection



### 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