# Bourdon tube pressure gauge RF80KTGly

## Part no. 85184701

**Bourdon tube standard pressure gauge for refrigeration engineering type D7 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**
D7

**Nominal size**
80

**accuracy class**
EN 837-1/6
NG 80
1.0

**ranges**
-1/+30 bar

**temperature scales**
for cooling agent: R 134a,
R 290,
R 404A,
R 407A,
R 507,
R 744

**application area**
static load: ¾ x full scale value
dynamic load: ⅔ 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 65 (EN 60529)

## standard version

**Connection**
Brass, bottom
7/16-20 UNF

**Measuring element**
Bourdon tube, Copper alloy
"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

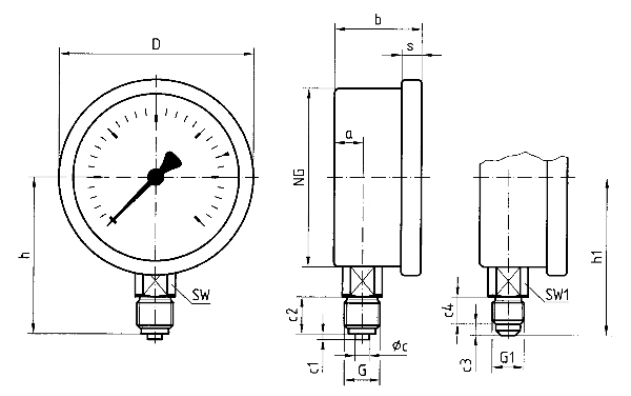
**filling liquid**
glycerine (99.5 %)

## Options

- Temperature scales for other refrigerants
- back flange
- clamp fixing
- 3-hole fixing, panel mounting bezel (NG 63/100)
- throttle 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 | c3 | c4 | D | G | G1 | h | h1 | s | SW | SW1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 63 | 9,5 | 30,5 | 5 | 2 | 13 | 4 | 9,5 | 68 | G½B | 16-20 UNF | 53 | 55 | 7 | 14 | 14 |
| 80 | 12,2 | 33,5 | 6 | 3 | 20 | 4 | 9,5 | 85 | G½B | 16-20 UNF | 71 | 62,5 | 7 | 22 | 14 |
| 100 | 12,2 | 33,5 | 6 | 3 | 20 | 4 | 9,5 | 106 | G½B | 16-20 UNF | 81 | 72,5 | 7 | 22 | 14 |

## Versions

| Range | Mounting type | Type | | Part number |
|---|---|---|---|---|
| -1/+30 bar | direct | RF80KTGly D701 | ○ | 85184701 |

● in-stock items

○ Non-stock items