



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
100

accuracy class
EN 837-1/6
NG 100
1.0

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

application area

static load: $\frac{3}{4}$ x full scale value
dynamic load: $\frac{2}{3}$ 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. $\pm 0.4 \text{ } \%/10 \text{ K}$
falling temperature approx. $\pm 0.4 \text{ } \%/10 \text{ K}$
of full scale value

Connection

Brass, bottom
7/16-20 UNF

Measuring element

Bourdon tube, Copper alloy

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

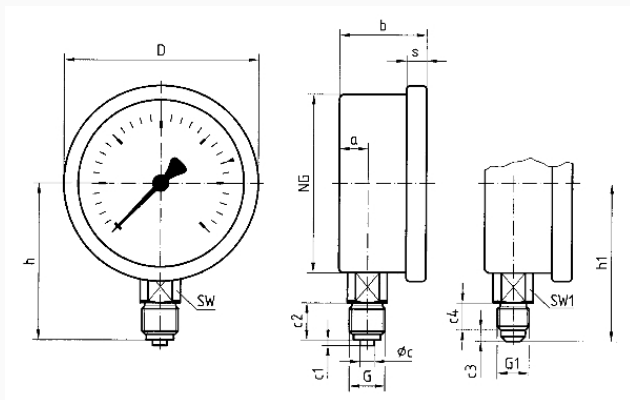
glycerine (99.5 %)

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	Øc	c1	c2	c3	c4	D	G	G1	h	h1	s	SW	SW1
63	9,5	30,5	5	2	13	4	9,5	68	G1/8	G1/8	53	55	7	14	14
UNF															
80	12,2	33,5	6	3	20	4	9,5	85	G1/2	G1/2	71	62,5	7	22	14
UNF															
100	12,2	33,5	6	3	20	4	9,5	106	G3/4	G3/4	81	72,5	7	22	14
UNF															

Versions

Range	Mounting type	Type		Part number
-1/+9 bar	direct	RF100KTGly D701	●	85230701
-1/+12.5 bar	direct	RF100KTGly D701	●	85231701
-1/+15 bar	direct	RF100KTGly D701	●	85232701
-1/+24 bar	direct	RF100KTGly D701	●	85233701
-1/+30 bar	direct	RF100KTGly D701	●	85234701

- in-stock items
- Non-stock items