



Standard Bourdon tube pressure gauges 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

63 – 80 – 100

Accuracy class

EN 837-1/6

NG 63: 1,6

NG 80: 1,0

NG 100: 1,0

Ranges

-1/+9 bar

-1/+12.5 bar

-1/+15 bar

-1/+24 bar

-1/+30 bar

Temperature scales

For cooling agent: R 134a, R 290, R 404A, R 407A, R 507, R 744

Application area

Static load: $\frac{1}{4}$ x full scale value

Dynamic load: $\frac{1}{2}$ 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) with housing vent (≤ 25 bar)

IP 65 (EN 60529)

Standard version

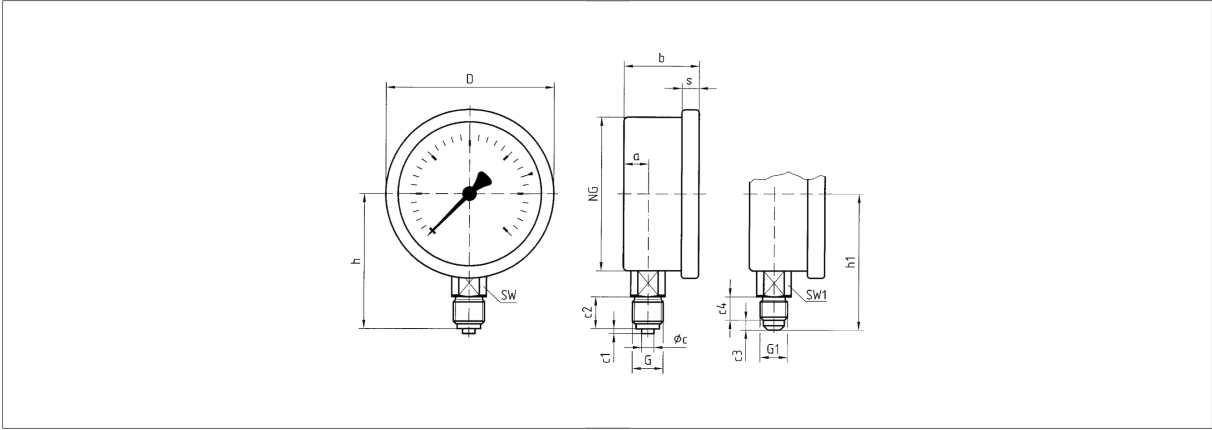
Connection Brass, bottom or centre back 7/16-20 UNF	Pointer Aluminium, black
Measuring element Bourdon tube, Copper alloy "C" type tube	Housing Stainless steel 304, with blow-out
Movement Brass	Crimped bezel Stainless steel 304
Dial Aluminium, white Pressure dial marking black Temperature dial marking coloured	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

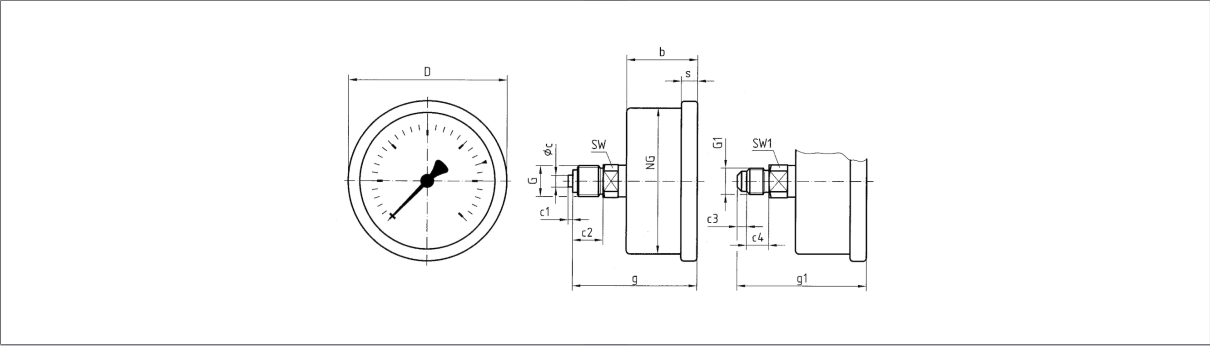
Bottom connection



Dimensions (mm)

NG	a	b	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	G¼B	7/16-20 UNF	53	55	7	14	14
80	12,2	33,5	6	3	20	4	9,5	85	G½B	7/16-20 UNF	71	62,5	7	22	14
100	12,2	33,5	6	3	20	4	9,5	106	G½B	7/16-20 UNF	81	72,5	7	22	14

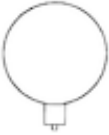
Centre back connection



Dimensions (mm)														
NG	b	Øc	c1	c2	c3	c4	D	g	g1	G	G1	s	SW	SW1
63	30,5	5	2	13	4	9,5	68	53,5	55,5	G¼B	7/16-20 UNF	7	14	14
80	33,5	6	3	20	4	9,5	85	65,5	58,5	G½B	7/16-20 UNF	7	22	14
100	33,5	6	3	20	4	9,5	106	65,5	58,5	G¾B	7/16-20 UNF	7	22	14

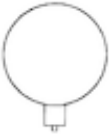
Versions

RF63KTGly D701

	Housing ø	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	63 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,6	-1/+9 bar	RF63KTGly D701	85130701
	63 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,6	-1/+12.5 bar	RF63KTGly D701	85131701
	63 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,6	-1/+15 bar	RF63KTGly D701	85132701
	63 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,6	-1/+24 bar	RF63KTGly D701	85133701
	63 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,6	-1/+30 bar	RF63KTGly D701	85134701

Blue part no. = in-stock items

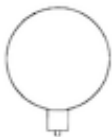
RF80KTGly D701

	Housing ø	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	80 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+9 bar	RF80KTGly D701	85180701
	80 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+12.5 bar	RF80KTGly D701	85181701
	80 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+15 bar	RF80KTGly D701	85182701
	80 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+24 bar	RF80KTGly D701	85183701
	80 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+30 bar	RF80KTGly D701	85184701

Blue part no. = in-stock items

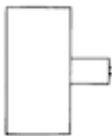


RF100KTGly D701

	Housing $\varnothing$	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	100 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+9 bar	RF100KTGly D701	85230701
	100 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+12.5 bar	RF100KTGly D701	85231701
	100 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+15 bar	RF100KTGly D701	85232701
	100 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+24 bar	RF100KTGly D701	85233701
	100 mm	7/16-20 UNF	Bottom	Stainless steel 304	1,0	-1/+30 bar	RF100KTGly D701	85234701

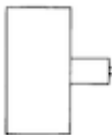
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RF63KTGly D711

	Housing $\varnothing$	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	63 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,6	-1/+9 bar	RF63KTGly D711	85130711
	63 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,6	-1/+12.5 bar	RF63KTGly D711	85131711
	63 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,6	-1/+15 bar	RF63KTGly D711	85132711
	63 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,6	-1/+24 bar	RF63KTGly D711	85133711
	63 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,6	-1/+30 bar	RF63KTGly D711	85134711

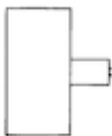
Blue part no. = in-stock items

RF80KTGly D711

	Housing $\varnothing$	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	80 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+9 bar	RF80KTGly D711	85180711
	80 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+12.5 bar	RF80KTGly D711	85181711
	80 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+15 bar	RF80KTGly D711	85182711
	80 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+24 bar	RF80KTGly D711	85183711
	80 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+30 bar	RF80KTGly D711	85184711

Blue part no. = in-stock items

RF100KTGly D711

	Housing $\varnothing$	Connection	Alignment	Housing	Accuracy class	Range	Type	Part no.
	100 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+9 bar	RF100KTGly D711	85230711
	100 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+12.5 bar	RF100KTGly D711	85231711
	100 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+15 bar	RF100KTGly D711	85232711
	100 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+24 bar	RF100KTGly D711	85233711
	100 mm	7/16-20 UNF	Centre back	Stainless steel 304	1,0	-1/+30 bar	RF100KTGly D711	85234711

Blue part no. = in-stock items