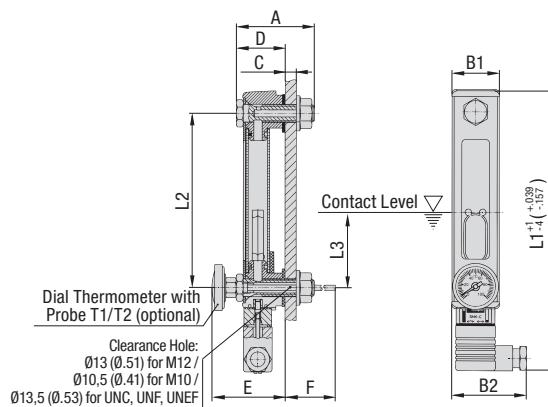


Level Gauge Type SNK



Characteristics

Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 2 bar / 29 PSI

Nominal Sizes and Designs

- 6 nominal sizes from 127 mm / 5.00 in to 381 mm / 15.00 in
- Display either undivided (SNK-127 ... 176) or subdivided by strut(s) into 2 (SNK-254) or 3 sections (SNK-305 and SNK-381)

Media Compatibility

- Suitable for use with mineral and petroleum based hydraulic fluids (HL and HLP)

Materials

- Housing made of Aluminium, black powder-coated
- Sight tube and plugs made of Polyamide (PA)
- Float made of Polyamide (PA)
- Seals made of FKM (Viton®)

For the individual components of the level gauge (sight glass, housing, Seals, bolts), alternative materials for improved UV or chemical resistance, low-temperature applications down to -50°C / -58°F and use with special media (such as bio-degradable fluids, diesel oils, gasolines) are available on request.

Electrical Specifications

- Magnetic float activates switch when fluid level drops below contact level within 60 mm / 2.36 in of lower banjo bolt
- Available as a break contact (normally closed) or make contact (normally open)
- Either equipped with industrial standard connector (Types C / O) or five-pin circular connector M12 (Types CD / OD)
- Direction of the electrical contact box (right / left) can be chosen when assembling the electrical contacts (Types C / D) or is right by default (Types CD / OD)
- Contact ratings: max. 10 W (Types C / CD) or 5 W (Types O / OD)
- Switching voltage: max. 50 VAC/DC
- Switching current: max. 0.25 A

Technical Data

- IP 65 protection rating: Dust tight and protected against water jets (IP 67 on request)
- Operating temperature range: -30°C ... +80°C / -22°F ... +176°F
- Recommended tightening torque: 8 N·m / 5.9 ft-lb
- Minimum lateral distance to other magnetic components and cables: 10 mm / .39 in

Accessories / Options

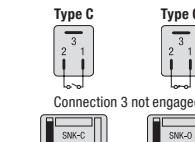
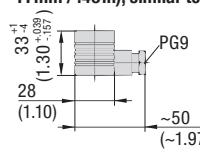
- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100°C / +200°F
- Thermo Switches
- Temperature Sensors
- Deutsch Adaptor Cable

Please see pages 18 / 19 / 20 for details.

Dimensional drawings: All dimensions in mm (in).

Connection Details and Electrical Functions

Types C and O: Industrial standard connector (contact gap: 11 mm / .43 in), similar to DIN EN 175301-803-B / ISO 6952



Contacts close when fluid level drops below contact level

Types CD and OD: Five-pin circular connector M12, A-coded, according to IEC 61076-2-101

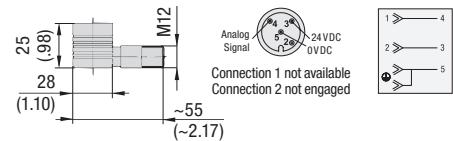
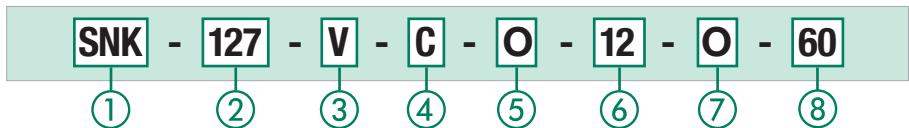


Table shows dimension L1 for the version with industrial standard connector (Types C and O) only. Maximum admissible tolerance for the bolt center spacing (dimension L2) according to DIN ISO 2768-f: +/- 0.20 mm / .008 in for all nominal sizes.

Dimensions

Nominal Size	Dimensions (mm/in)										
	A	B1	B2	C (Max.)	D	E	F (with T1)	F (with T2)	L1	L2	L3
SNK-127	56	34,5	-50	8	35,1	51,5	157,5	257,5	205	127	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	8.07	5.00	-2.36
SNK-150	56	34,5	-50	8	35,1	51,5	157,5	257,5	228	150	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	8.98	5.91	-2.36
SNK-176	56	34,5	-50	8	35,1	51,5	157,5	257,5	254	176	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	10.00	6.93	-2.36
SNK-254	56	34,5	-50	8	35,1	51,5	157,5	257,5	332	254	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	13.07	10.00	-2.36
SNK-305	56	34,5	-50	8	35,1	51,5	157,5	257,5	383	305	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	15.08	12.00	-2.36
SNK-381	56	34,5	-50	8	35,1	51,5	157,5	257,5	459	381	-60
	2.20	1.36	-1.97	.32	1.26	2.03	6.20	10.14	18.07	15	-2.36

Order Codes



① Type

Level Gauge with visual / electrical fluid level indication

SNK

⑥ Banjo Bolt Size

Metric ISO thread M12 (standard option)

12

Metric ISO thread M10

10

Unified coarse thread 1/2-13 UNC

U1

Unified fine thread 1/2-20 UNF

U2

Unified extra-fine thread 1/2-28 UNEF

U3

② Nominal Size

SNK-127 (nominal size of 127 mm / 5.00 in)

127

SNK-150 (nominal size of 150 mm / 5.91 in)

150

SNK-176 (nominal size of 176 mm / 6.93 in)

176

SNK-254 (nominal size of 254 mm / 10.00 in)

254

SNK-305 (nominal size of 305 mm / 12.00 in)

305

SNK-381 (nominal size of 381 mm / 15.00 in)

381

Contact STAUFF for alternative nominal sizes and designs.

③ Sealing Material

FKM (Viton®)

V

④ Electrical Function

Break contact, opens at contact level (normally closed); Equipped with standard connector

0

Break contact, opens at contact level (normally closed); Equipped with connector M12

OD

Make contact, closes at contact level (normally open); Equipped with standard connector

C

Make contact, closes at contact level (normally open); Equipped with connector M12

CD

Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12

PT100

Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12

PT100

⑤ Thermometer Option

Supplied without thermometer (standard option)

0

Dial thermometer with probe (200 mm / 7.87 in) and a Celsius scale up to 100°C

T1C

Dial thermometer with probe (300 mm / 11.81 in) and a Celsius scale up to 100°C

T2C

Dial thermometer with probe (200 mm / 7.87 in) and a dual scale up to 100°C / 200°F

T1CF

Dial thermometer with probe (300 mm / 11.81 in) and a dual scale up to 100°C / 200°F

T2CF

⑦ Thermo Switch / Temperature Sensor / Anti-Drain Valve Option

Supplied without Thermo Switch / Temperature Sensor / Anti-Drain Valve

-

Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with standard connector

0

Thermo Switch TS-SNA/SNK; Break contact (normally closed); Equipped with connector M12

OD

Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with standard connector

C

Thermo Switch TS-SNA/SNK; Make contact (normally open); Equipped with connector M12

CD

Temperature Sensor TS-SNA/SNK-PT100; Equipped with connector M12

PT100

⑧ Switching Temperature

Contact switches at +60°C / +140°F

60

Contact switches at +70°C / +158°F

70

Contact switches at +80°C / +176°F

80

Contact switches at +90°C / +194°F

90

Only to be indicated when using a Thermo Switch.

Options T1C/CF and T2C/CF are not available for banjo bolt size M10. When using a dial thermometer with probe and a thermo switch at the same time, ensure that both protrude into the oil. A combination is only possible when using the two screw-on positions.

Please see page 18 for details.