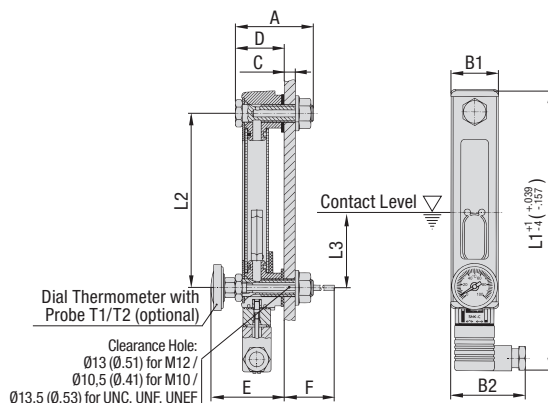
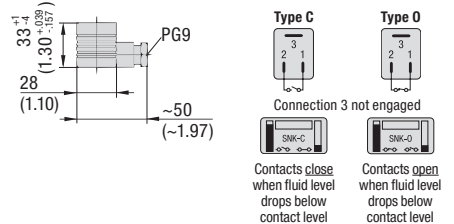


Level Gauge Type SNK



Connection Details and Electrical Functions

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



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

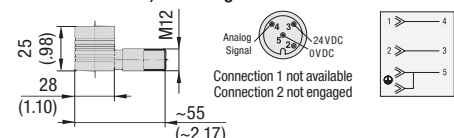


Table shows dimension L1 for the version with industrial standard connector (Types C and O) only.
Maximum admissible tolerance for the bolt center spacing (dimension L2) according to DIN ISO 2768-f: ±0.20 mm / .008 in for all nominal sizes.

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

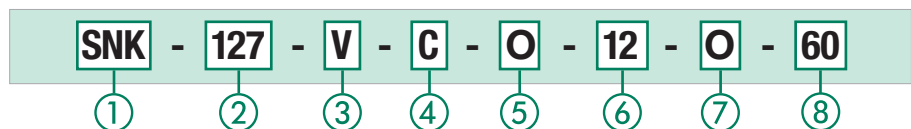
- Dial thermometers with probe and a Celsius or a dual Celsius / Fahrenheit scale with a temperature display range of up to +100 °C / +200 °F
 - Thermo Switches
 - Temperature Sensors
 - Deutsch Adaptor Cable
- Please see pages 18 / 19 / 20 for details.

Dimensional drawings: All dimensions in mm (in).

Dimensions

Nominal Size	Dimensions (mm/in)				D	E	F (with T1)	F (with T2)	L1	L2	L3
	A	B1	B2	C (Max.)							
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**

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 **O**
 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**

⑤ Thermometer Option

Supplied without thermometer (standard option) **O**
 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**

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**

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 **O**
 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**
 Anti-Drain Valve Set A **DA**
 Anti-Drain Valve Set B **DB**
 Thermo Switches / Temperature Sensors only available for banjo bolt size M12. Please see pages 18 to 20 for details.

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.