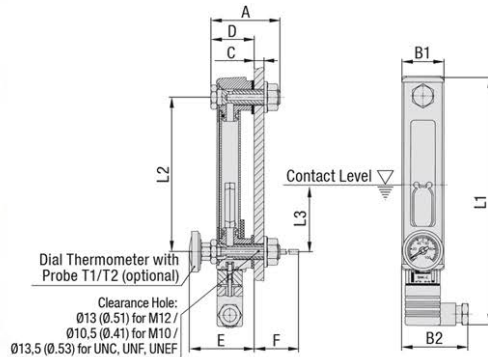


Part number:

Fluid Level / Temperature Indicators

Dimensions / Technical Data / Order Codes

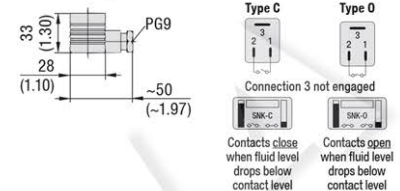
Level Gauge - Type SNK



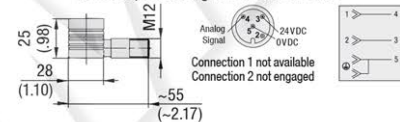
Dial Thermometer with Probe T1/T2 (optional)
Clearance Hole: Ø13 (0.51) for M12 / Ø10,5 (0.41) for M10 / Ø13,5 (0.53) for UNC, UNF, UNEF

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



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



Characteristics

Visual / electrical fluid level indication in hydraulic reservoirs with maximum tank pressures not exceeding 1 bar / 14.5 PSI

Nominal Sizes and Designs

- 5 nominal sizes from 127 mm / 5.00 in to 305 mm / 12.00 in
- Display either undivided (SNK 127 ... 176) or subdivided by strut(s) into 2 (SNK 254) or 3 sections (SNK 305)

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)
- Sealings made of FPM (Viton®)

Special sight tube materials for improved UV or chemical resistance and use with special media (such as bio-degradable fluids, diesel oils, gasolines, etc.) as well as special sealing materials 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. 10W (types C / CD) or 5W (types O / OD)
- Switching voltage: max. 50VAC/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

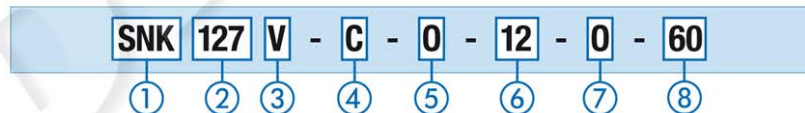
Please see pages E8 and E9 for details.

Dimensions

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.

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

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**

Consult STAUFF for alternative nominal sizes and designs.

3 Sealing Material

FPM (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 **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 Option

Supplied without Thermo Switch / Temperature Sensor -
 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**

Thermo Switches / Temperature Sensors only available for banjo bolt size M12. Please see pages E8 and E9 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 and not be used in conjunction with Thermo Switches or Temperature Sensors. Please see page E8 for details.