

ELECTRICAL LEVEL GAUGES - 127 mm



XL/127-PLAST-SL

XL/127-PLAST-ST

XL/127-PLAST-SL-ST

Material: transparent polyamide, ultrasonic welded, resistant to hydraulic fluids, synthetic and mineral oils, diesel, some unleaded fluid. Avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Sealing: flat rubber back seals NBR 70 Shore.

Bolts and flanged nuts: zinc plated steel, M12.

External case: PA66 30% fiberglass reinforced, with front and side view.

Maximum working temperature: 80°C (176 F).

Assembling instructions: the mounting of the level gauge can be made externally by providing two threaded

holes M12 on 127 mm centre distance, tolerance $\pm 0,2\text{mm}$. Alternatively they can be secured internally through two plain holes $\varnothing 12,5\text{ mm}$ using the flanged nuts provided. Maximum tightening torque suggested: 5 Nm.

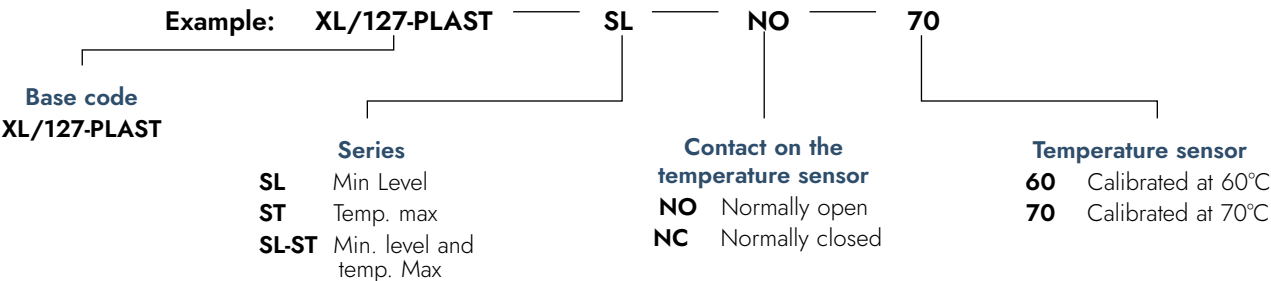
Special versions

Sealing: FKM type Viton®.

Bolts and flanged nuts: stainless steel, M12.

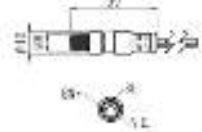
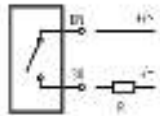
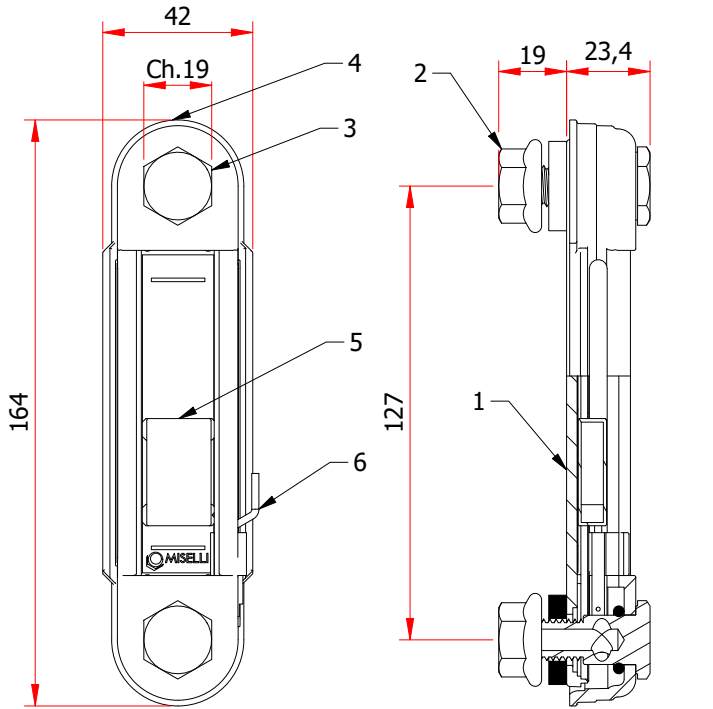
Material -CX: special resin resistant to fluid containing alcohol and anti-freeze liquids.

ORDERING CODE



XL/127-PLAST-SL

VERTICAL LEVEL GAUGE WITH MINIMUM LEVEL ELECTRICAL SWITCH



BN (+) = brown
BU (-) = blue
N.C = not connected

REED switch attached on the external guard, adjustable in height according to the level design requirement; standard switch is supplied with power cable 30 cm in length with M8 male connector. On request it is possible to provide a separate connection cable (250 cm in length) complete with female M8 connector.

Floating element made in technopolymer containing a magnet that, when in proximity with the REED sensor, closes the electrical contact (tests carried with mineral oil viscosity ASTM D 445 cSt 30.4 at 40°C / cSt 5.4 at 100°C).

Standard execution: normally open electrical contact (NO).

Operation features: the vertical level gauge XL/127-PLAST-SL, in addition to allowing a visual inspection, provides an electrical signal when the float element reaches the preset minimum level.

COMPONENTS LIST

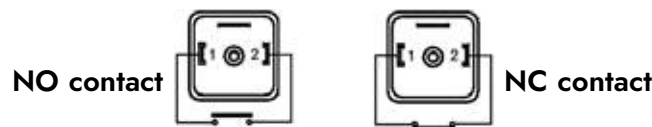
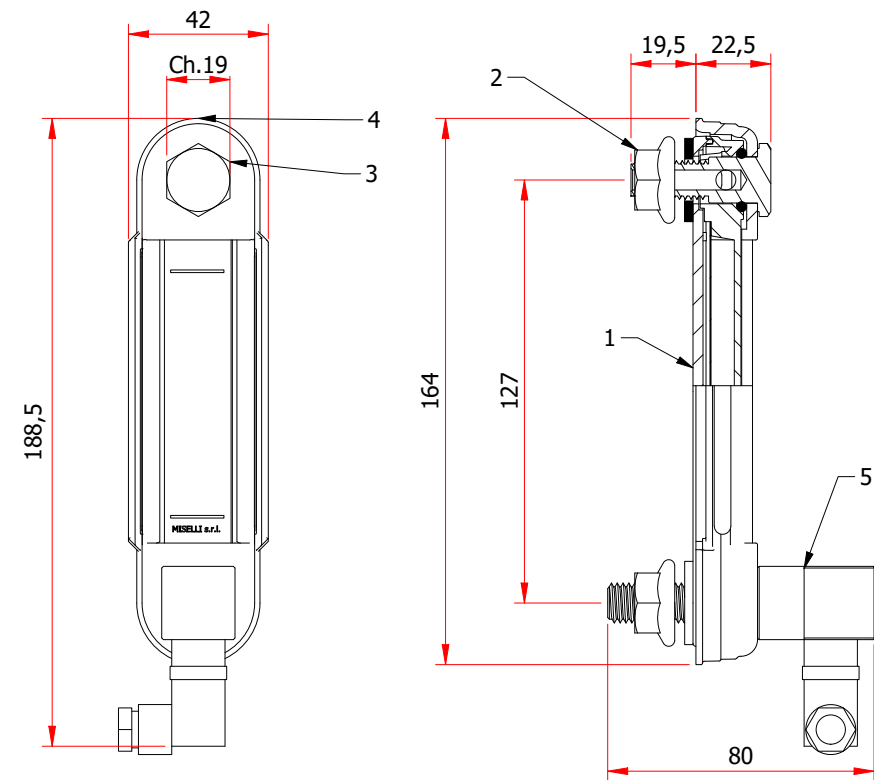
Item	Description
1	Transparent body
2	Flanged hex M12
3	Hollow bolt M12
4	Plastic guard
5	Magnetic floating element
6	"REED" sensor with M8 male connector

ELECTRICAL CHARACTERISTICS "REED" SWITCH

Sensor type	"REED" 2 wires
Supply voltage	3÷30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 A
Power rating (Ohmic load)	6 W
Working temperature	-10°C/+70°C
Protection degree	IP67

XL/127-PLAST-ST

VERTICAL LEVEL GAUGE WITH MAXIMUM TEMPERATURE ELECTRICAL SWITCH



Preset electrical sensor with switching temperature available of 60°C/140°F or 70°C/158°F incorporated into the zinc plated M12 bolt with adjustable DIN connector.

Standard executions: **XL/127-PLAST-ST-NO** (electrical contact normally open on temperature sensor) and **XL/127-PLAST-ST-NC** (electrical contact normally closed on temperature sensor).

Operation features: the level gauge XL/127-PLAST-ST in addition to allowing a visual oil level inspection provides an electrical signal when the temperature of the fluid inside the reservoir reaches the specified preset switching temperature (in conditions of use at room temperature of 20°C/68°F). The model XL/127-PLAST-ST-NO the electrical circuit is closed once it reaches the preset specified temperature, the model XL/127-PLAST-ST-NC is open once it reaches the preset specified temperature.

COMPONENTS LIST

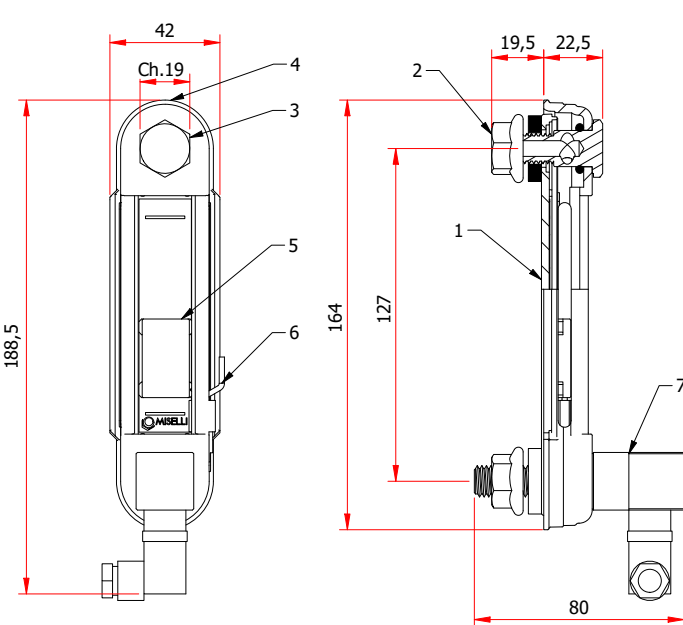
Item	Description
1	Transparent body
2	Flanged hex nut M12
3	Hollow bolt M12
4	Plastic guard
5	Max Temperature sensor

ELECTRICAL CHARACTERISTICS
MAX TEMPERATURE ELECTRICAL SENSOR

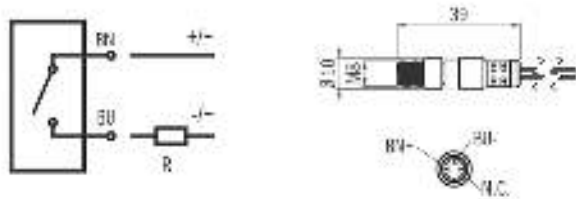
Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max applicable voltage	10 A / 250 Vac
Connector	Mini DIN 43650-C
Protection degree	IP65
Calibration	60°C/140°F - 70°C/158 °F
Accuracy	±5°C (data referred to a room temp. = 20°C /68°F)

XL/127-PLAST-SL-ST

VERTICAL LEVEL GAUGE WITH MINIMUM LEVEL AND MAXIMUM TEMPERATURE SWITCH



Item	Description
1	Transparent body
2	Flanged hex nut M12
3	Hollow bolt M12
4	Plastic guard
5	Magnetic floating element
6	REED sensor with M8 male connector
7	Max Temperature sensor



BN (+) = brown
BU (-) = blue
N.C = not connected

REED switch attached on the external guard, adjustable in height according to the level design requirement; standard switch is supplied with power cable 30 cm in length with M8 male connector. On request it is possible to provide a separate connection cable (250 cm in length) complete with female M8 connector.

Floating element made in technopolymer containing a magnet that, when in proximity with the REED sensor, closes the electrical contact (tests carried with mineral oil viscosity ASTM D 445 cSt 30.4 at 40°C / cSt 5.4 at 100°C).

Preset electrical sensor with switching temperature available of 60°C/140°F or 70°C/158°F incorporated into the zinc plated M12 bolt with adjustable DIN connector.

Standard executions: **XL/127-PLAST-SL-ST-NO** (electrical contact normally open on the temperature sensor) and **XL/127-PLAST-SL-ST-NC** (electrical contact normally closed on the temperature sensor).

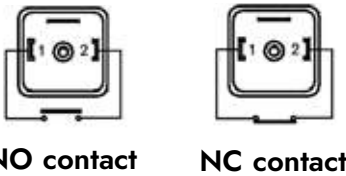
Operation features: the vertical level indicator XL/127- PLAST-SL-ST in addition to allow for a visual oil level inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (in conditions of use at room temperature of 20°C/68°F), and provides as well an electrical signal when the float element reaches the preset minimum level.

XL/127-PLAST-SL-ST-NO: the level sensor closes the electrical circuit when it reaches the pre-set minimum level; the maximum temperature sensor closes the electrical circuit at the pre-set temperature threshold.

XL/127-PLAST-SL-ST-NC: the level sensor closes the electric circuit when it reaches the pre-set minimum level; the maximum temperature sensor opens the circuit at the pre-set threshold temperature

ELECTRICAL CHARACTERISTICS “REED” SWITCH

Sensor type	“REED” 2 wires
Supply voltage	3÷30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 A
Power rating (Ohmic load)	6 W
Working temperature	-10°C / +70°C
Protection degree	IP67



ELECTRICAL CHARACTERISTICS
MAX TEMPERATURE ELECTRICAL SENSOR

Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max applicable voltage	10 A / 250 Vac
Connector	Mini DIN 43650-C
Protection degree	IP65
Calibration	60°C/140°F - 70°C/158 °F
Accuracy	±5°C (data referred to a room temp. = 20°C /68°F)

ELECTRICAL LEVEL GAUGES - VARIABLE Length



Material: transparent polycarbonate tube, compatible with mineral and synthetic oils, hydraulic fluids, fluids containing glycole; limited resistance to unleaded fuel and diesel. Behind the tube is placed a graduated contrast screen to allow an accurate view of the level.

Sealing: flat rubber back seals NBR 70 Shore.

Bolts and flanged nuts: zinc plated steel, M12.

External case: Aluminum U-shape.

Maximum working temperature: 80°C (176 F).

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded

holes M12 on the center distance, tolerance $\pm 0,5$. Alternatively they can be secured internally through 2 plain holes 12,5 mm (-0,2). Max tightening torque suggested 5 Nm.

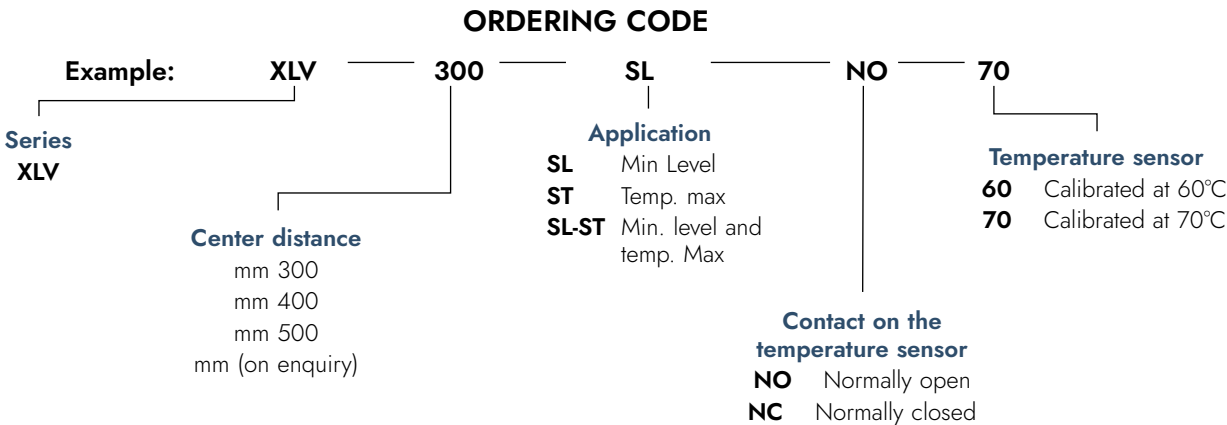
Special versions

SL-NC: level sensor with contact normally closed.

Sealing: FKM type Viton®.

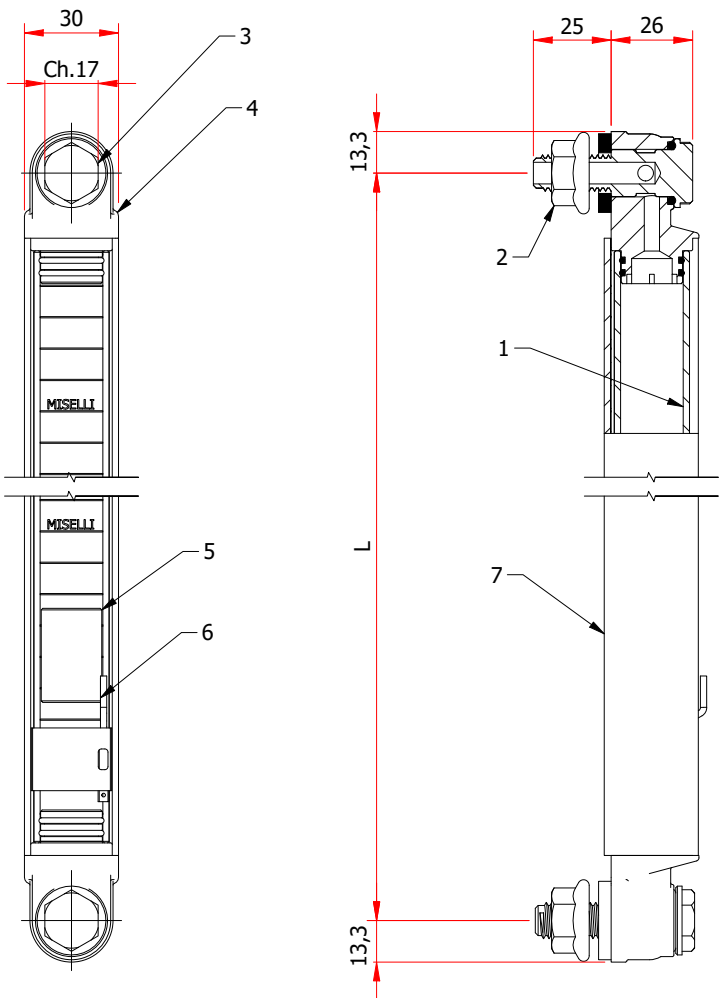
Bolts and flanged nuts: stainless steel, M12 (only SL model).

Double REED sensor.

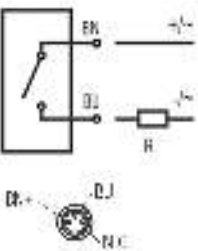


XLV-SL

VERTICAL LEVEL GAUGE - VARIABLE Length - WITH MINIMUM LEVEL ELECTRICAL SWITCH



NO sensor



BN (+) = brown
BU (-) = blue
N.C. = not connected

NC sensor



BN (+) = brown
BU (-) = blue

REED switch attached on the external guard, adjustable in height according to the level design requirement; minimum location position is 2" or 50 mm from the center of the lower bolt. Standard switch is supplied with power cable 30 cm in length with M8 male connector. On request it is possible to provide a separate connection cable (250 cm in length) complete with female M8 connector. Possibility to apply more of level sensors positioned at different heights.

Floating element made in technopolymer containing a magnet that, when in proximity with the REED sensor, closes the electrical contact.

Standard execution: normally open electrical contact (NO). On request, it is possible to provide electrical contact normally closed (NC).

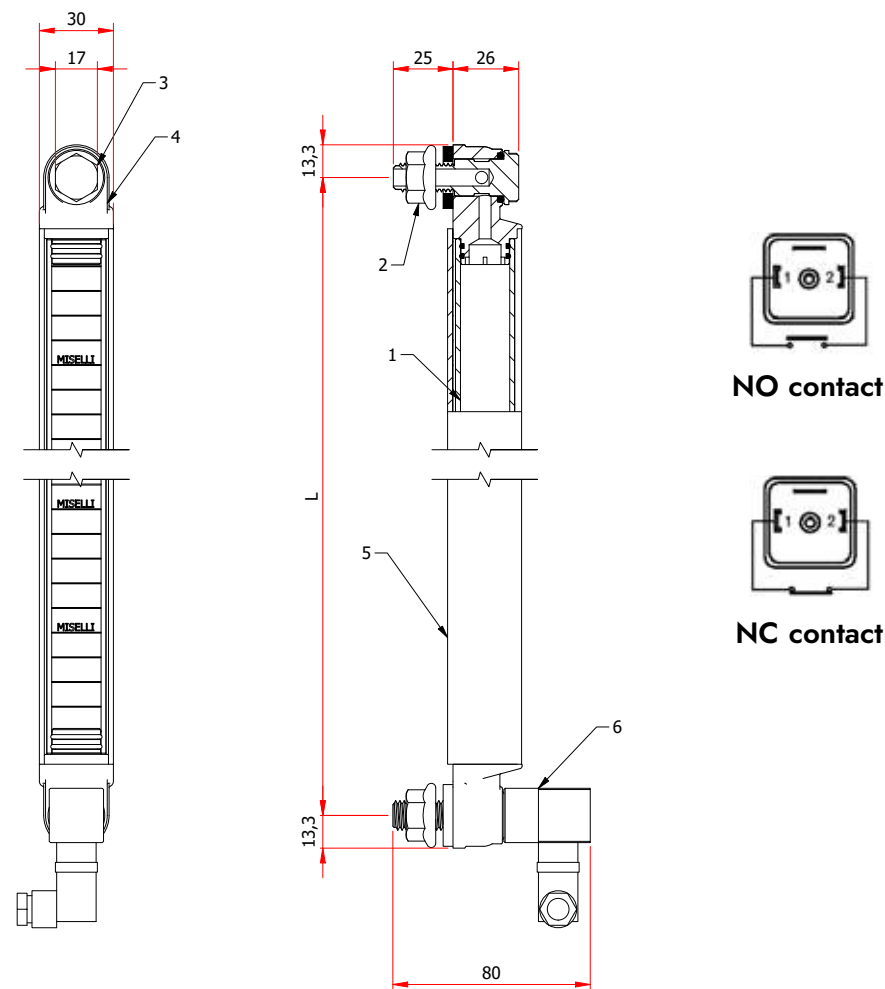
Operation features: the vertical level gauge XLV/SL, in addition to allowing a visual inspection, provides an electrical signal when the float element reaches the preset minimum level.

COMPONENTS LIST	
Item	Description
1	Polycarbonate transparent tube
2	Flanged hex M12
3	Hollow bolt M12
4	Plastic end caps
5	Magnetic floating element
6	"REED" sensor with M8 male connector
7	Aluminum U-shape guard

ELECTRICAL CHARACTERISTICS "REED" SWITCH	
Sensor type	"REED" 2 wires
Supply voltage	3÷30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 A
Power rating (Ohmic load)	6 W
Working temperature	-10°C/+70°C
Protection degree	IP67

XLV-ST

VERTICAL LEVEL GAUGE -VARIABLE Length- WITH MAXIMUM TEMPERATURE ELECTRICAL SWITCH



Preset electrical sensor with switching temperature available of 60°C/140°F or 70°C/158°F incorporated into the zinc plated M12 bolt with adjustable DIN connector.

Standard executions: **XLV/ST-NO** (electrical contact normally open on temperature sensor) and **XLV/ST-NC** (electrical contact normally closed on temperature sensor).

Operation features: the level gauge XLV-ST in addition to allowing a visual oil level inspection provides an electrical signal when the temperature of the fluid inside the reservoir reaches the specified preset switching temperature (in conditions of use at room temperature of 20°C/68°F). The model XLV-ST-NO the electrical circuit is closed once it reaches the preset specified temperature, the model XLV-ST-NC is open once it reaches the preset specified temperature.

COMPONENTS LIST

Item	Description
1	Transparent body
2	Flanged hex nut M12
3	Hollow bolt M12
4	Plastic end caps
5	Aluminum U-shape guard
6	Max Temperature sensor

ELECTRICAL CHARACTERISTICS
MAX TEMPERATURE ELECTRICAL SENSOR

Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max applicable voltage	10 A / 250 Vac
Connector	Mini DIN 43650-C
Protection degree	IP65
Calibration	60°C/140°F - 70°C/158 °F
Accuracy	±5°C (data referred to a room temp. = 20°C /68°F)

XLV-SL-ST - VERTICAL LEVEL GAUGE - VARIABLE Length - WITH MINIMUM LEVEL AND MAXIMUM TEMPERATURE SWITCH

REED switch attached on the external guard, adjustable in height according to the level design requirement; minimum location position is 2" or 50 mm from the center of the lower bolt. Standard switch is supplied with power cable 30 cm in length with M8 male connector. On request it is possible to provide a separate connection cable (250 cm in length) complete with female M8 connector. Possibility to apply more of level sensors positioned at different heights.

Standard execution: **normally open** electrical contact (NO). On request, it is possible to provide electrical contact **normally closed** (NC).

Floating element made in technopolymer containing a magnet that, when in proximity with the REED sensor, closes the electrical contact.

Preset electrical sensor with switching temperature available of 60°C/140°F or 70°C/158°F incorporated into the zinc plated M12 bolt with adjustable DIN connector.

Standard executions: **XLV/SL-ST-NO** (electrical contact normally open on the temperature sensor) and **XLV/SL-ST-NC** (electrical contact normally closed on the temperature sensor).

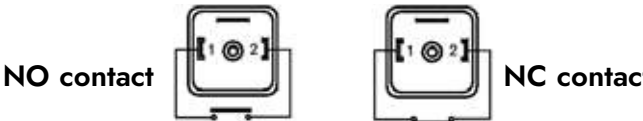
Operation features: the vertical level indicator XLV/SL-ST in addition to allow for a visual oil level inspection, provides an electrical signal when the required temperature of the fluid inside the tank is reached (in conditions of use at room temperature of 20°C/68°F), and provides as well an electrical signal when the float element reaches the preset minimum level.

XLV/SL-ST-NO: the level sensor closes the electrical circuit when it reaches the pre-set minimum level; the maximum temperature sensor closes the electrical circuit at the pre-set temperature threshold.

XLV/SL-ST-NC: the level sensor closes the electric circuit when it reaches the pre-set minimum level; the maximum temperature sensor opens the circuit at the pre-set threshold temperature.

ELECTRICAL CHARACTERISTICS
MAX TEMPERATURE ELECTRICAL SENSOR

Sensor type	Bimetal contact
Power supply	AC/DC
Electrical contact	NO Normally open NC Normally closed
Max applicable voltage	10 A / 250 Vac
Connector	DIN 46350
Protection degree	IP65
Calibration	60°C/140°F - 70°C/158 °F
Accuracy	±5°C (data referred to a room temp. = 20°C /68°F)

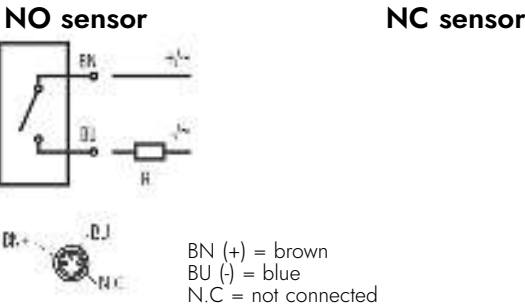


COMPONENTS LIST

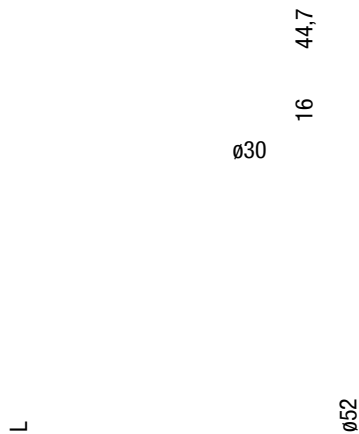
Item	Description
1	Transparent body
2	Flanged hex nut M12
3	Hollow bolt M12
4	Plastic end caps
5	Magnetic floating element
6	REED sensor with M8 male connector
7	Aluminum guard - 90°rotation

ELECTRICAL CHARACTERISTICS "REED" SWITCH

Sensor type	"REED" 2 wires
Supply voltage	3÷30 Vac/dc
Electrical contact	NO Normally open
Switching current	0,2 A
Power rating (Ohmic load)	6 W
Working temperature	-10°C/+70°C
Protection degree	IP67



LSF - FLOAT LEVEL SWITCH WITH FLANGE



Level switch particularly suitable for hydraulics, lubrication plant, water treatment, industrial vehicles, fluid stocking, cleaning machines and equipment. The hermetically sealed reed switch housed inside the stem is actuated by a magnetic field created by a magnet equipped float. As the float rises and lowers with liquid level, the magnetic field passing the switch in the stem causes the switch to either open or close. Executions specifically approved R.I.N.A.

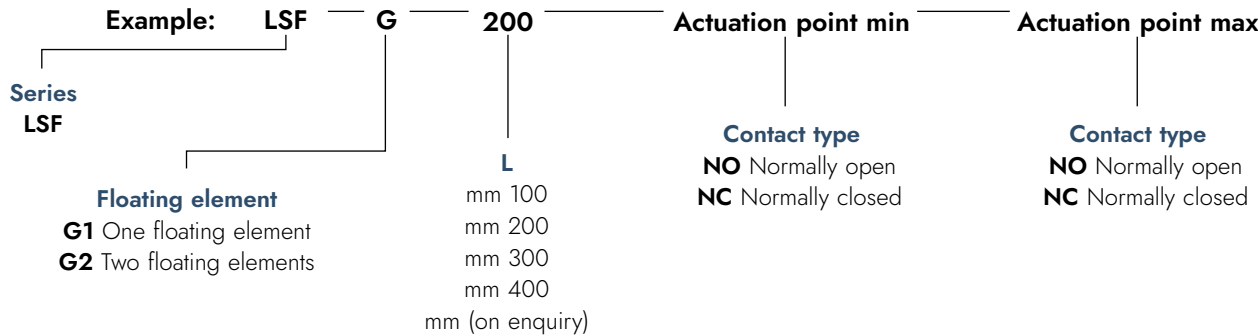
- Flange: anodized aluminum.
- Stem: in brass and stop rings in bronze.
- Floating element: NBR.
- Maximum working pressure: 10 bar.
- Maximum working temperature: 80°C (176 F).
- Tube length: customizable from 100 mm to 1500 mm.

Models

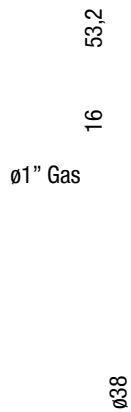
One or two floating elements.
One or two actuation points NO or NC.
Integrated thermostat set at 40°-50°-60°-70°-80° C
NO or NC.

Max. fluid viscosity	150 cSt
Fluid specific gravity	≥ 0,7 kg/dm 3
Max voltage	220 Vac
Rating power	30 W
Max current	0,5 A

ORDERING CODE



LS1 - FLOAT LEVEL SWITCH WITH THREADED HEAD



Level switch particularly suitable for hydraulics, lubrication plant, water treatment, industrial vehicles, fluid stocking, cleaning machines and equipment. The hermetically sealed reed switch housed inside the stem is actuated by a magnetic field created by a magnet equipped float. As the float rises and lowers with liquid level, the magnetic field passing the switch in the stem causes the switch to either open or close. Executions specifically approved R.I.N.A.

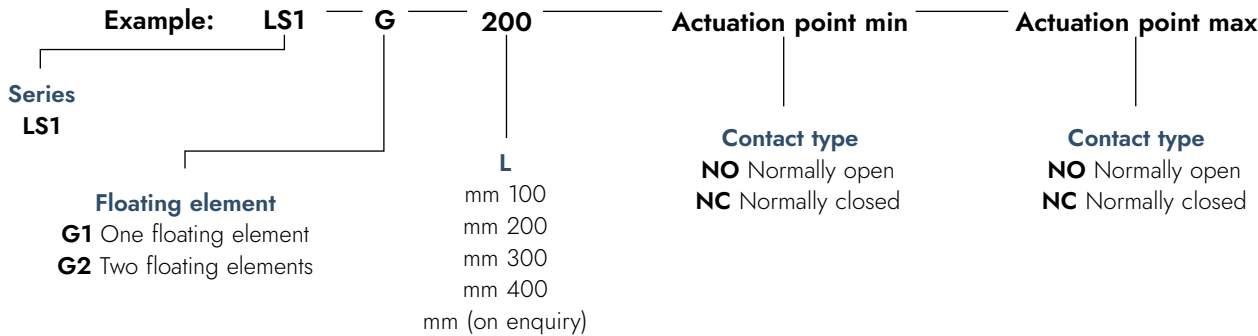
- Head: threaded G.1" anodized aluminum.
- Stem: in brass and stop rings in bronze.
- Floating element: NBR.
- Maximum working pressure: 10 bar.
- Maximum working temperature: 80°C (176 F).
- Tube length: customizable from 100 mm to 1500 mm.

Models

One or two floating elements.
One or two actuation points NO or NC.
Integrated thermostat set at 40°-50°-60°-70°-80° C
NO or NC.

Max. fluid viscosity	150 cSt
Fluid specific gravity	≥ 0,7 kg/dm 3
Max voltage	220 Vac
Rating power	30 W
Max current	0,5 A

ORDERING CODE



SLV - VERTICAL LEVEL GAUGE

SLVT - VERTICAL LEVEL GAUGE WITH THERMOMETER



SLV/127

SLVT/127

SLV/127/RB

Vertical level gauge designed for use on tanks and power packs of hydraulic fluids and fuel with good visibility, even lateral. The body of the level gauge is made by ultrasonically welding two halves together to ensure a leak free seal around the body. Inside it is fitted a white screen with minimum and maximum level indications.

Material: transparent polyamide which provides good mechanical resistance to shocks, hydraulic fluids, synthetic and mineral oils, diesel and some unleaded fuel. Avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Sealing: O-rings and flat rubber washers NBR 80 Shore.

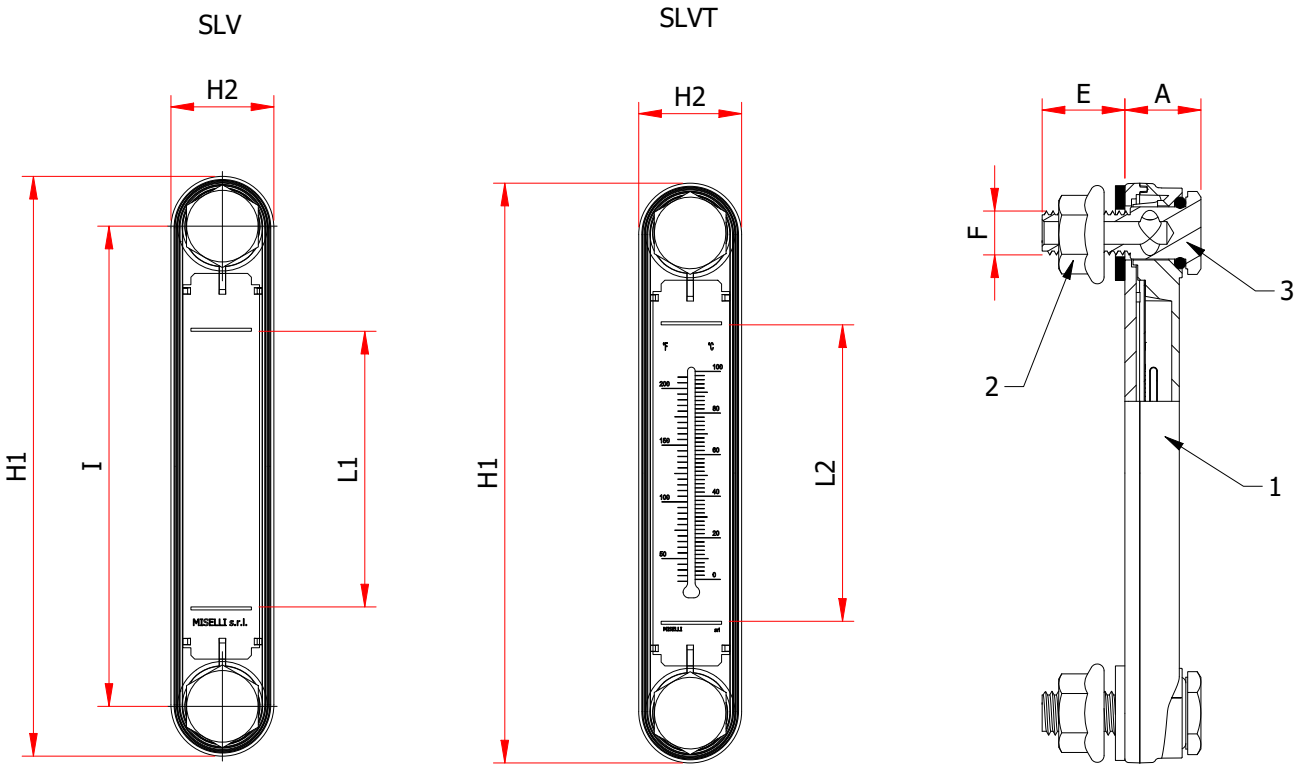
Bolts and flanged nuts: zinc plated steel.

Thermometer: possibility to check both the fluid level and its temperature by a inside capillary thermometer scaled in degree Celsius 0-100° C and Fahreneit 50-200°F (Model SLVT-76 0-80°C/50-175°F).

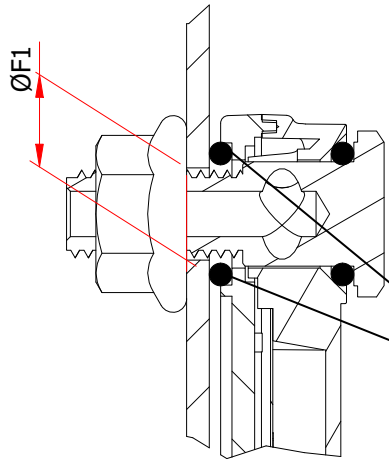
Max working temperature: 90°C/194°F (test made up 3 bar /43,5 PSI of pressure). In case of use under pressure and/or temperature conditions, contact the technical service Miselli srl.

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded holes M10 or M12 on 76-127 mm centre distance, tolerance ± 0,2mm. Alternatively they can be secured internally through 2 plain holes Ø 10,2 mm or Ø 12,2 mm using the flanged nuts provided.

Maximum tightening suggested 3 Nm.



- 1 = Transparent main body
- 2 = Flanged hex nut
- 3 = Hollow bolt



Special versions

SLV-T/CX

made from special resin resistant to fluid containing alcohol and anti-freeze liquids.

SLV-T/RB

with floating red ball to improve the visibility of the fluid level of light colored liquids.

SLV-T/INOX

provided with stainless steel nuts and bolts suitable for applications in corrosive environments such as marine.

SLV-T/OR

back seal provided through O-Ring in NBR synthetic rubber.

SLV-T/V

sealing FKM type VITON®.

SLV-T/UVR

made from special resin resistant to UV rays.

Cod.	I	H1	H2	F	E	A	L1	L2	ØF1	Weight gr	Pack.
SLV/76	76	100	27	M10-M12	21	22	37		10,2-12,2	105	5
SLVT/76	76	100	27	M10-M12	21	22		37	10,2-12,2	105	5
SLV/127	127	150	27	M10-M12	22	21	73		10,2-12,2	145	5
SLVT/127	127	150	27	M10-M12	22	21		78	10,2-12,2	145	5

XL - VERTICAL LEVEL GAUGE WITH METAL CASING
XLT - VERTICAL LEVEL GAUGE WITH THERMOMETER AND METAL CASING



Vertical level gauge designed for use on tanks and power packs of hydraulic fluids and fuel with good visibility, even lateral. The body of the level gauge is made by ultrasonically welding two halves together to ensure a leak free seal around the body. Inside it is fitted a white screen with minimum and maximum level indications.

Material: transparent polyamide which provides good mechanical resistance to shocks, hydraulic fluids, synthetic and mineral oils, diesel and some unleaded fuel. Avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Sealing: O-rings and flat rubber washers NBR 80 Shore.

Bolts and flanged nuts: zinc plated steel.

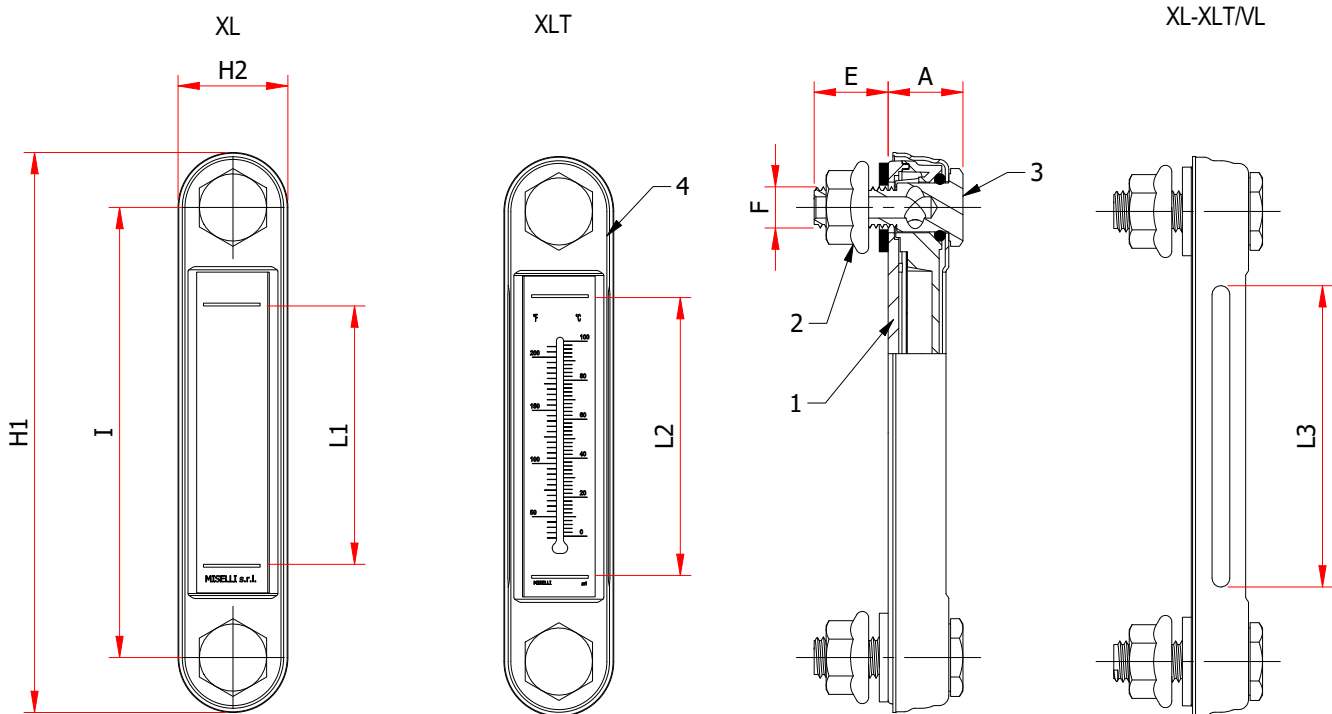
External case: painted black steel.

Thermometer: possibility to check both the fluid level and its temperature by a inside capillary thermometer scaled in degree Celsius 0-100° C and Fahrenheit 50-200°F (Model XL/03T 0-80°C/50-175°F).

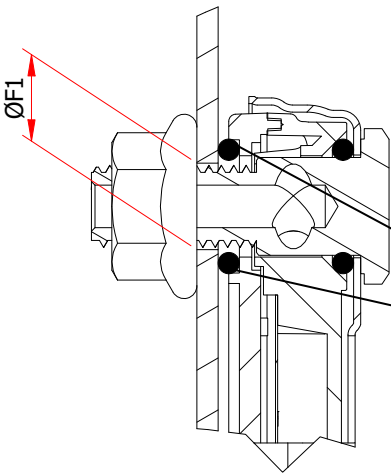
Max working temperature: 90°C/194°F (test made up 3 bar /43,5 PSI of pressure). In case of use under pressure and/or temperature conditions, contact the technical service Miselli srl.

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded holes M10 or M12 on 76-127 mm centre distance, tolerance ± 0,2mm. Alternatively they can be secured internally through 2 plain holes Ø 10,2 mm or Ø 12,2 mm using the flanged nuts provided.

Maximum tightening suggested 3 Nm.



- 1 = Corpo centrale trasparente
- 2 = Dado flangiato
- 3 = Vite forata
- 4 = Protezione esterna



Versioni speciali

XL-T/CX realizzato in resina poliammidica speciale resistente ai fluidi contenenti alcool.

XL-T/RB "red ball" con sfera galleggiante interna colore rosso per migliorare la visibilità del livello in caso di utilizzo di liquidi o fluidi molto chiari.

XL-T/PLAST: carenatura esterna in resina poliammidica PA66 30% fibra vetro; su questo modello possibilità di utilizzare viti e dadi in acciaio inox per applicazioni in ambienti corrosivi.

XL-T/OR tenuta posteriore con O-Ring in NBR-gomma sintetica.

XL-T/V guarnizioni e O-Ring di tenuta in FKM tipo VITON®.

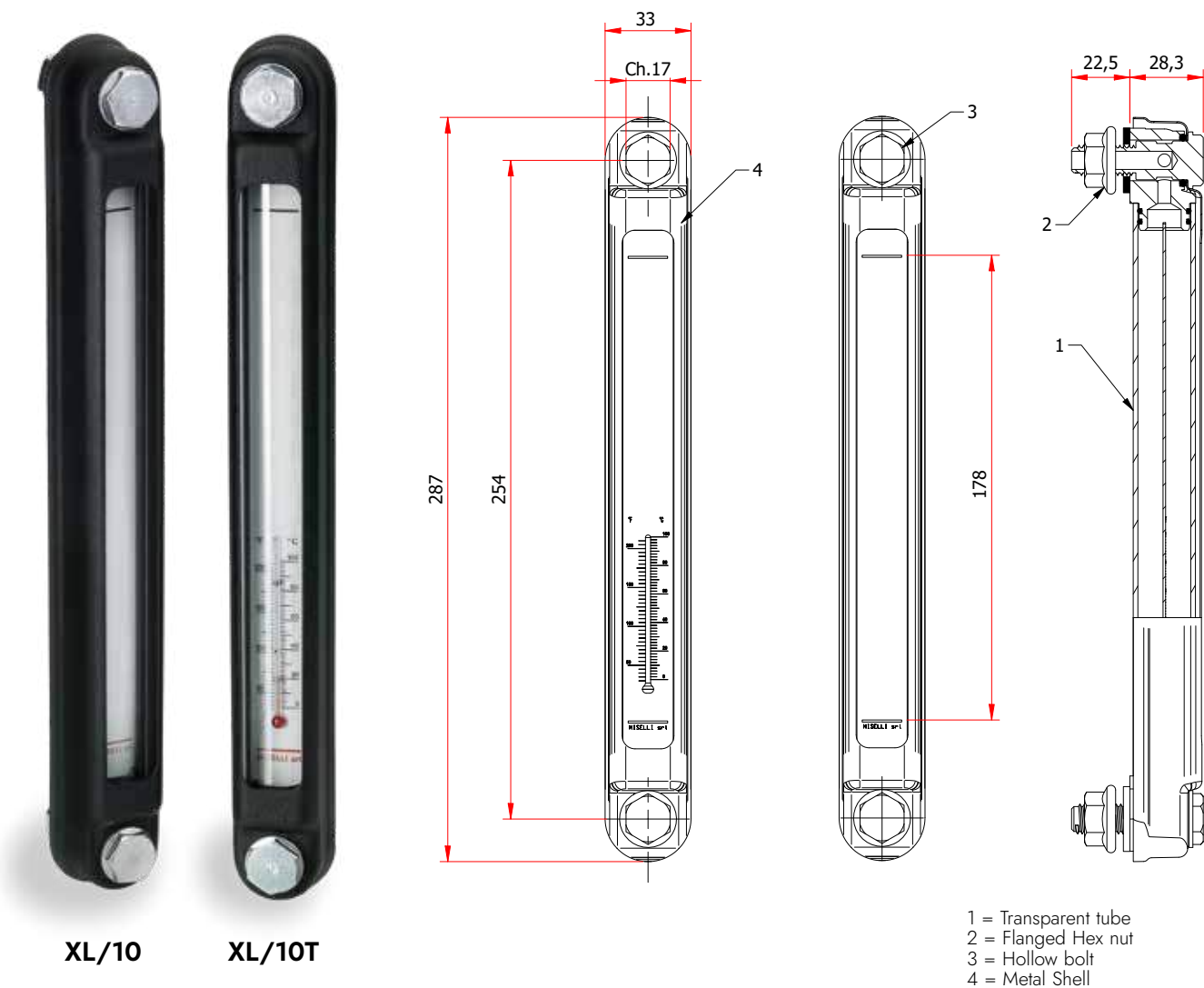
XL-T/VL con carena in lamiera stampata nera con aperture laterali per consentire miglior visuale del livello.

XL-T/UVR realizzato in resina poliammidica speciale resistente ai raggi UV.

XL-T/INOX con viti e dadi in acciaio inox consigliato per l'applicazione su serbatoi oleodinamici in ambiente marino o dove si ritenga opportuno avere una protezione sicura alla corrosione sulle viti e dadi di fissaggio.

Cod.	I	H1	H2	F	E	A	L1	L2	ØF1	L3	Peso gr	Conf.
XL/03	76	107	31	M10-M12	20	23	37		10,2-12,2	34	135	5
XL/03T	76	107	31	M10-M12	20	23		37	10,2-12,2	34	135	5
XL/05	127	158	31	M10-M12	21	22	73		10,2-12,2	85	187	5
XL/05T	127	158	31	M10-M12	21	22		78	10,2-12,2	85	187	5

XL/10 - VERTICAL LEVEL GAUGE WITH METAL CASING
XL/10T - VERTICAL LEVEL GAUGE WITH THERMOMETER AND METAL CASING



Vertical level gauge 254 mm (10") designed for use on tanks and power packs.

Material: transparent internal tube made from Polycarbonate (PC), compatible with mineral and synthetic oils, hydraulic fluids, fluids containing glycole; limited resistance to unleaded fuel and diesel.

Bolts and flanged nuts: zinc plated steel.

Sealing: O-rings and flat rubber washers NBR 70 Shore.

External case: painted black steel.

Thermometer: possibility to check both the fluid level and its temperature by a inside capillary thermometer scaled in degree Celsius 0-100° C and Fahrenheit 50-200°F.

Max working temperature: 90°C/194°F (test made up 1 bar /14,5 PSI of pressure). In case of use under pressure and/or temperature conditions, contact the technical service Miselli srl.

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded holes M12 on 254 mm center distance, tolerance $\pm 0,2$. Alternatively they can be secured internally through 2 plain holes 12,5 mm ($\pm 0,2$).

Max tightening torque suggested: 3 Nm.

Special versions

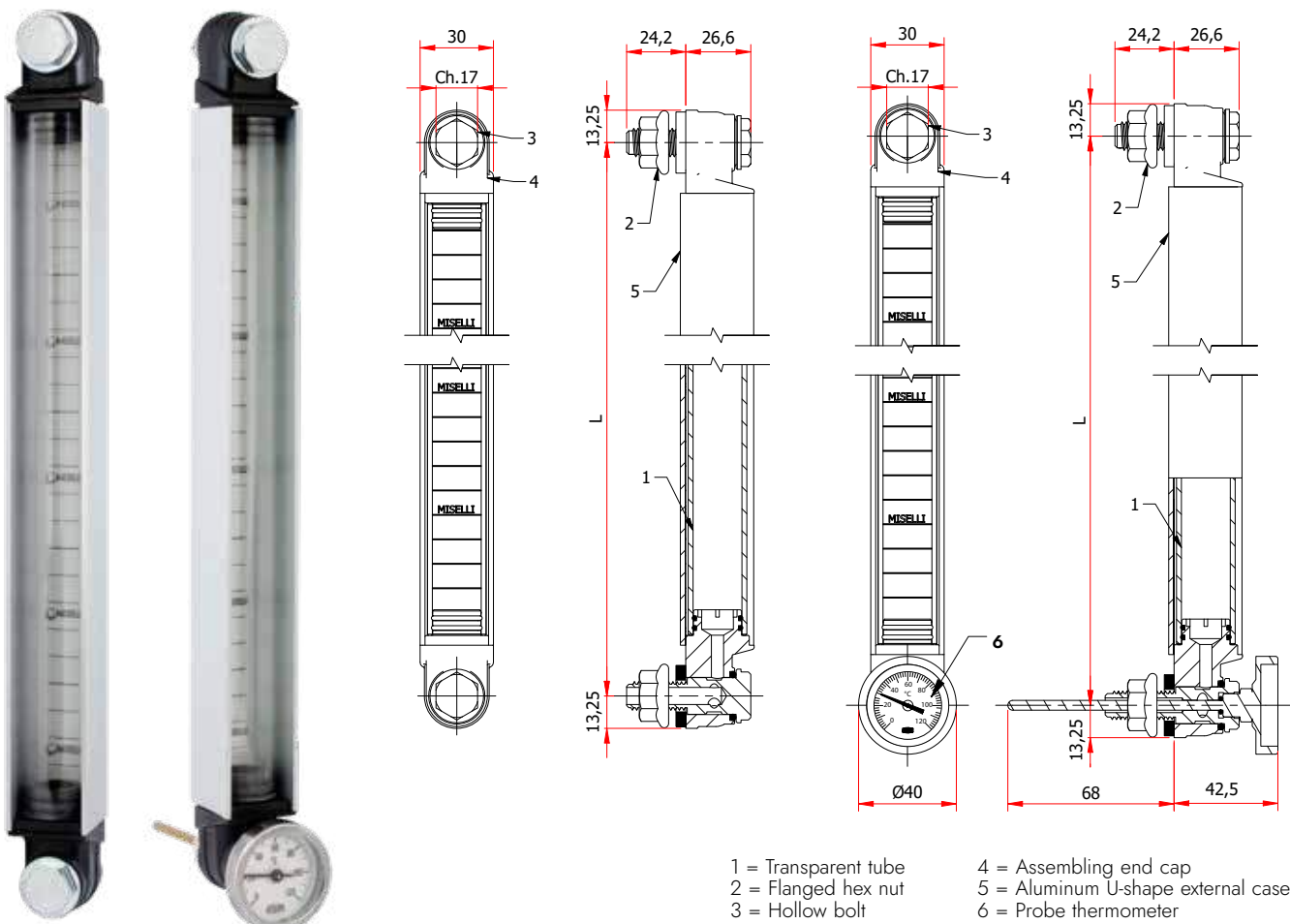
XL-T/10/G with the transparent tube made in glass resistant to aggressive liquids.

XL-T/10/RB with floating red ball to improve the visibility of the fluid level of light colored liquids.

XL-T 10/V sealing FKM type VITON®.

XL-T/10/INOX provided with stainless steel nuts and bolts suitable for applications in corrosive environments such as marine.

XLV - EXTENDED LEVEL GAUGE
XLV-T - EXTENDED LEVEL GAUGE WITH THERMOMETER



Vertical level gauge, available with customized lengths, designed for use on big tanks and power packs. Standard center-to-center distance 300, 400 and 500 mm.

Material: transparent polycarbonate tube, compatible with mineral and synthetic oils, hydraulic fluids, fluids containing glycole; limited resistance to unleaded fuel and diesel. Behind the tube is placed a graduated contrast screen to allow an accurate view of the level.

Bolts and flanged nuts: zinc plated steel, M12.

Sealing: flat rubber back seals NBR 70 Shore.

External case: Aluminum U-shape. It can be turned 90 degrees where necessary side viewing.

Assembling end caps: Polyamide PA66 black color.

Thermometer: probe graduated 0-120°C (30-250°F).

Maximum working temperature: 90°C/194°F (test made up to 1 bar/14,5 PSI of pressure).

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded

holes M12 on the center distance, tolerance $\pm 0,5$. Alternatively they can be secured internally through 2 plain holes 12,5 mm ($\pm 0,2$).

Max tightening torque suggested 5 Nm.

Special versions

XLV/10/G with the transparent tube made in glass resistant to aggressive liquids.

XLV/10/RB with floating red ball to improve the visibility of the fluid level of light colored liquids.

XLV/10/V sealing FKM type VITON®.

XLV/10/INOX provided with stainless steel nuts and bolts suitable for applications in corrosive environments such as marine.

Cod.	L	Weight gr
XLV/300/M12	300	330
XLV/400/M12	400	400
XLV/500/M12	500	470

XLM – VERTICAL LEVEL GAUGE WITH ALUMINIUM CASING



Vertical level gauge designed for visual inspection of liquid level use on tanks and power packs. With sufficient quantities, available customization center-to-center distances.

Material: borosilicate glass cylindrical tube, compatible for use with mineral oils, fuels, water, or other fluids containing alcohol or glycol.

Bolts and flanged nuts: zinc plated steel.

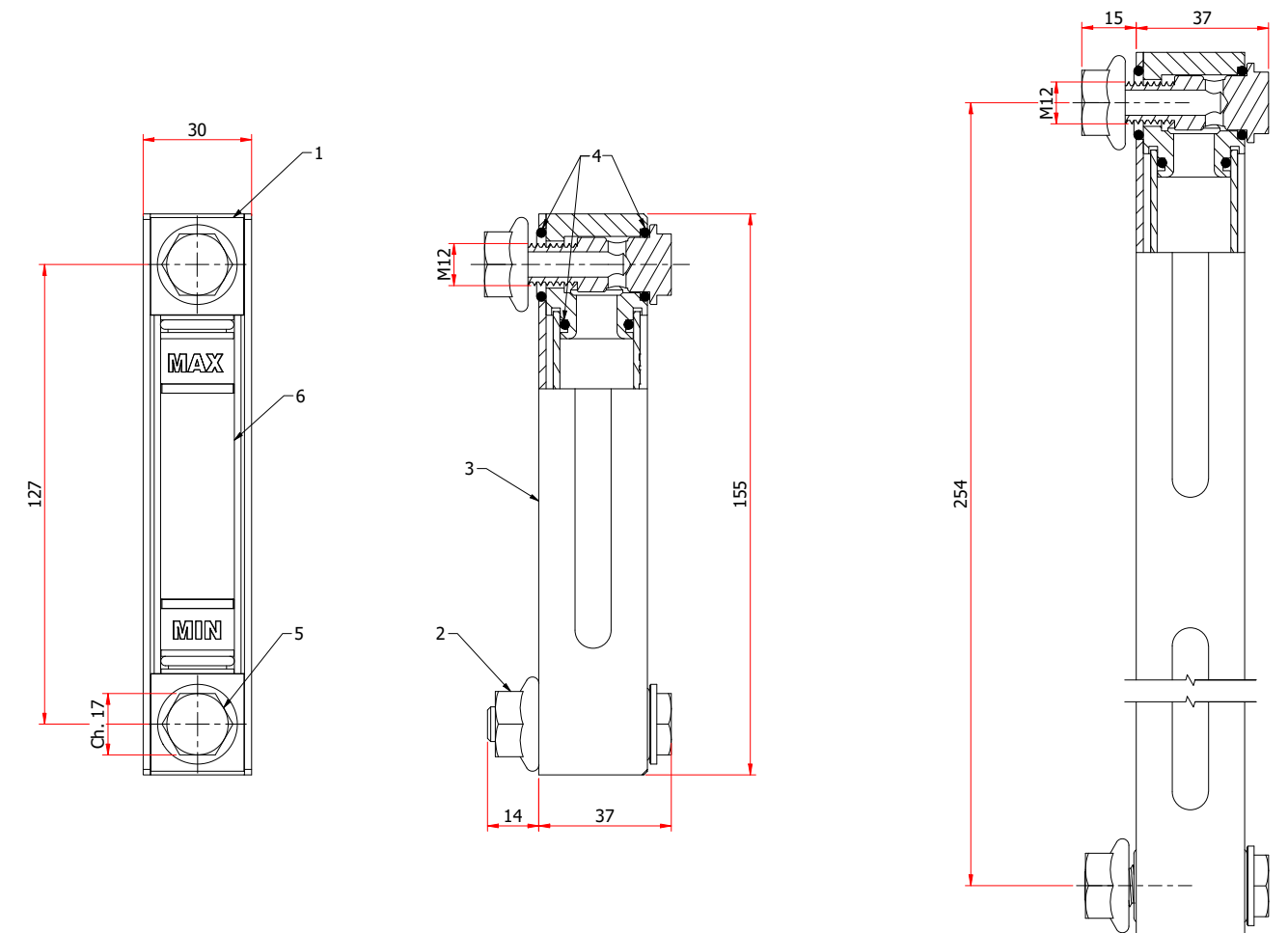
Sealing: O-Rings Fkm type Viton®.

External case: anodized aluminium.

Assembling end caps: anodized aluminum.

Maximum working temperature: 120°C/248 F, tested at an internal pressure of 25 bar/362 PSI (test made on to the 127 mm model).

Assembling instructions: the mounting of the level gauge can be made externally by providing two threaded holes M12 on the center distance, tolerance $\pm 0,1$ mm. Alternatively they can be secured internally with the flanged nut supplied by drilling two holes without chamfer and without burrs $\varnothing 12.5$ mm. Maximum recommended tightening torque 10 Nm.



Special versions

XLM-PC Manufactured with a polycarbonate tube and an NBR 70 Shore O-ring (temp. max 90°C/194 °F - max pressure 2 Bar/29 PSI).

XLM-VL with external casing with side openings to allow visibility from both sides.

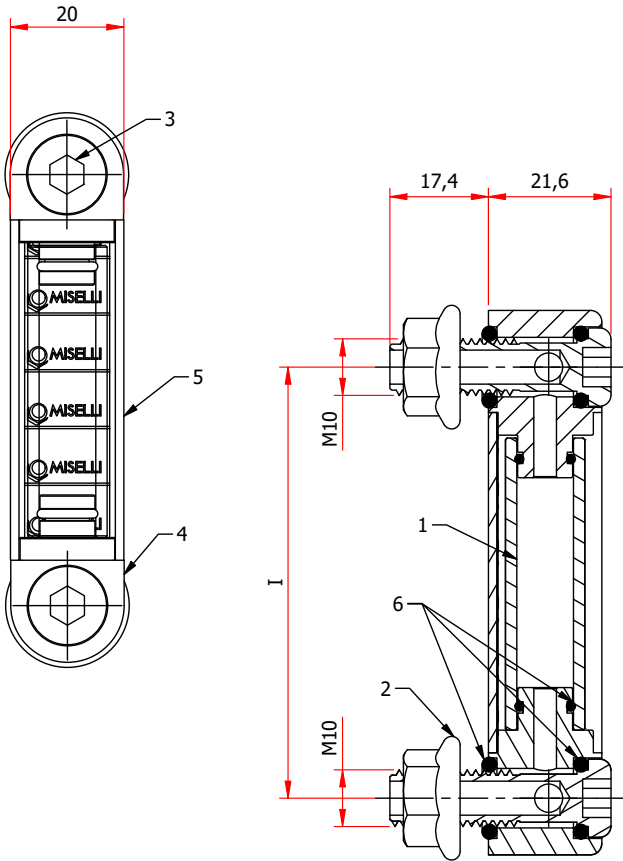
XLM-RB with floating red ball to improve the visibility of the fluid level of light colored liquids (max working temperature 90°C/194°F).

XLM-TS with external probe graduated 0-120°C (30-250°F).

XLM-INOX provided with stainless steel nuts and bolts suitable for applications in corrosive environments such as marine.

XLM-UNC with bolts and nuts with thread 1/2-13 UNC.

XLP - CUSTOMIZABLE LEVEL GAUGE FOR SMALL OVERALL DIMENSION



- 1 = Transparent tube
2 = Flanged hex nut
3 = Screw with socket hexagon
- 4 = Assembling end cap
5 = Aluminum U-shape external case
6 = O-Rings

Vertical level gauge, available with customized lengths, designed for use on small tanks. Excellent visibility thanks to transparent assembling end caps. Suggested for center-to-center distance lower then 254 mm.

Material: transparent polycarbonate tube, compatible with mineral and synthetic oils, hydraulic fluids, fluids containing glycole; limited resistance to unleaded fuel and diesel. Behind the tube is placed a graduated contrast screen to allow an accurate view of the level.

Bolts and flanged nuts: zinc plated steel, M10.

Sealing: O-ring NBR 70 Shore.

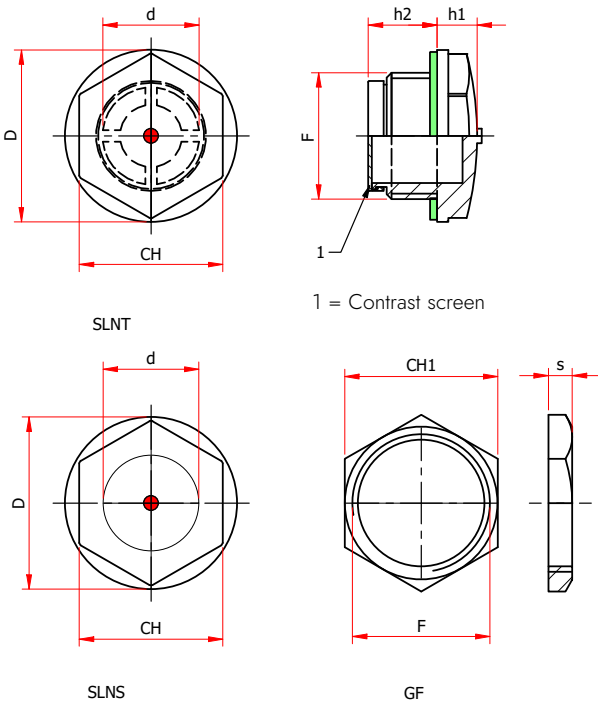
External case: Aluminum U-shape.

Assembling end caps: transparent polyamide.

Assembling instructions: the mounting of the level gauge can be made externally by providing 2 threaded holes M10 on the center distance, tolerance $\pm 0,2$. Alternatively they can be secured internally through 2 plain holes 10,5 mm ($\pm 0,2$).

Max tightening torque suggested 3 Nm.

SLNS - OIL LEVEL INDICATOR
SLNT - OIL LEVEL INDICATOR WITH REFLECTOR



Threaded oil level indicator, hex head with shoulder. Utilized in oil tanks, gearboxes, hydraulic machinery and tools.

Material: transparent polyamide which provides good mechanical resistance to shocks, hydraulic fluids, synthetic and mineral oils, diesel, some unleaded fuel; avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures

Sealing: flat fiber gasket.

Maximum working temperature: 90°C/194°F.

Special versions

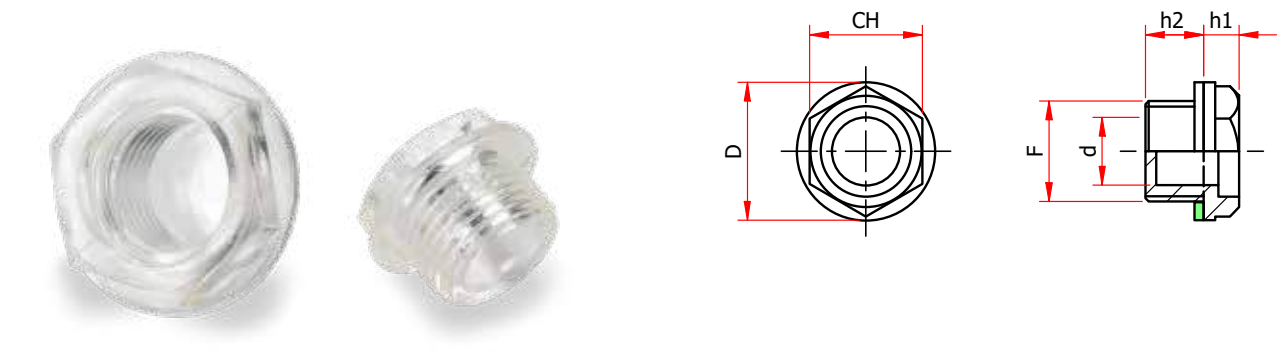
Material -CX: special resin resistant to fluid containing alcohol and anti-freeze liquids.

Sealing: flat gasket NBR 70 Shore.

Fixing nut: in brass, for wall thickness less than 5 mm.

Cod.	CH	F	D	d	h1	h2	Nm	CH1	s	Pack.
SLNS/14	17	G 1/4	20,5	9	8,5	8,5	5	-	-	100
SLNS/38	SLNT/38	G 3/8	22	10	7	12	7	19	4	100
SLNS/12	SLNT/12	G 1/2	28	13,5	8	12,5	15	25	4,5	100
SLNS/34	SLNT/34	G 3/4	36	19,5	9	14	20	32	5	50
SLNS/1	SLNT/1	G 1	42	23,5	10	16	25	36	5	50
SLNS/114	SLNT/114	G 1 1/4	51	31	10	17,5	-	46	5	25
SLNS/112	SLNT/112	G 1 1/2	57,5	38,5	9,5	22	-	-	-	25
SLNS/2	SLNT/2	G 2	74	48	12,2	20,5	-	-	-	25
SLNS/14.15		M14x1,5	20	9	8,5	9,5	5	-	-	100
SLNS/16.15	SLNT/16.15	M16x1,5	22	10	7	13	7	-	-	100
SLNS/18.15	SLNT/18.15	M18x1,5	25,5	12	6	12,5	10	-	-	100
SLNS/20.15	SLNT/20.15	M20x1,5	28	13,5	7,5	12	15	-	-	100
SLNS/22.15	SLNT/22.15	M22x1,5	28	14	7,5	12	15	-	-	100
SLNS/26.15	SLNT/26.15	M26x1,5	36	20	9	13,5	20	-	-	50
SLNS/27.15	SLNT/27.15	M27x1,5	36	20	9	13,5	20	-	-	50
SLNS/40.15	SLNT/40.15	M40x1,5	51	31	10	17,5	-	-	-	25
SLNS/42.15	SLNT/42.15	M42x1,5	51	31	10	17,5	-	-	-	25

SLC - OIL LEVEL SIGHT GLASS



Threaded oil level indicator, hex head with shoulder, utilized in oil tanks, gearboxes, hydraulic machinery and tools. The base of the threaded end is solid therefore residual fluid which could give false indication is not trapped inside when level dropped down.

Material: transparent polyamide which provides good mechanical resistance to shocks, hydraulic fluids, synthetic and mineral oils, diesel, some unleaded fuel; avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures

Maximum working temperature: 90°C/194°F.

Sealing: flat fiber gasket.

Cod.	CH	F	D	d	h1	h2	Nm	Weight gr	Pack.
SLC/38	18	G 3/8"	22	12	7	10	6	2	100
SLC/12	24	G.1/2"	29	16	5	10	10	4	100

SLP - PRESS-FIT LEVEL SIGHT GLASS



Press-fit oil level indicator with mounting on plain holes, referred to the diameter F (drilling diameter) with wall thickness $\geq$ than 5 mm, with tolerance $\pm 0,1$, chamfer 1/45°. Do not use in pressurized tanks.

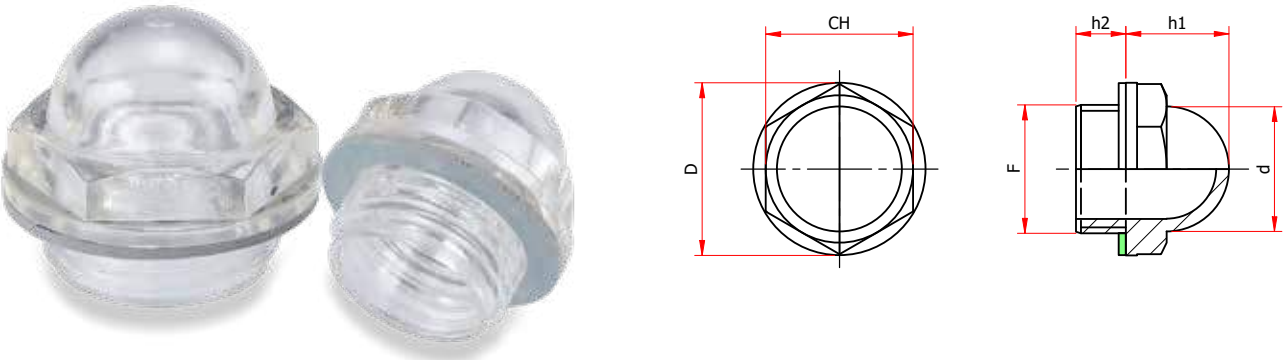
synthetic and mineral oils, diesel, some unleaded fuel; avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Sealing: O-ring NBR 70 Shore.

Maximum working temperature: 90°C/194°F.

Cod.	F=Ø mm	D	Ø d	h1	h2	Weight gr	Pack.
SLP/17	17	18	16,9	3	7	4	100
SLP/20	20	24	19,6	4	10	4	100
SLP/26	26	30	25	4	11,5	5	100
SLP/32	32	36	31,7	4	13	8	100
SLP/38	38	42	37,5	4	14	10	100
SLP/40	40	44	39,5	4	14	12	50

LSB - DOME SHAPED OIL LEVEL GLASS



Dome shaped transparent level glass, enabling oil level to be read from any angle.

Material: transparent polyamide which provides good mechanical resistance to shocks, hydraulic fluids, synthetic and mineral oils, diesel, some unleaded fuel; avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Maximum working temperature: 90°C/194°F.

Sealing: flat fiber gasket.

Special version

Sealing: flat gasket NBR 70 Shore.

Cod.	F	CH	D	d	h1	h2	Nm	Weight gr	Pack.
LSB/38	G 3/8"	19	22	15	14	10	6	4	100
LSB/12	G 1/2"	24	28	20	18	10	10	5	100
LSB/34	G 3/4"	30	35	25	20	10	15	8	50
LSB/1	G 1"	36	42	31	24	10,5	20	17	50
LSB/20.15	M 20x15	24	28	20	18	10	10	4	100

CF - DOME SHAPED FLUID LEVEL INDICATOR



Dome shaped transparent level glass, enabling oil level to be read from any angle. This product is utilized on trucks/tankers and large reservoir containing liquids, especially in agricultural machinery.

Material: thermoplastic resin for optimal shock resistance and high strenght.

Sealing: on request, O-ring NBR 70 Shore (codes OR/2 – OR/3).

Maximum working temperature: 70°C/158°F.

Cod.	F	D	h1	h2	Weight gr
CF/2	G 2"	59	16	32	45
CF/3	G 3"	85	32	63	135

SM – OIL LEVEL INDICATOR - ALUMINUM AND CRYSTAL CLEAR PLASTIC



Threaded hex-head oil level indicator. Internal contrast screen in aluminum helps the control of the level inside the tank.

Material: aluminum alloy.

Lens: transparent PA Polyamide, compatible with mineral and synthetics oils, diesel, brake fluid and some unleaded fuel; avoid contact with alcohol based solutions and antifreeze liquids, especially at high temperatures.

Sealing: flat fiber gasket.

Maximum working temperature: 90°C/194°F.

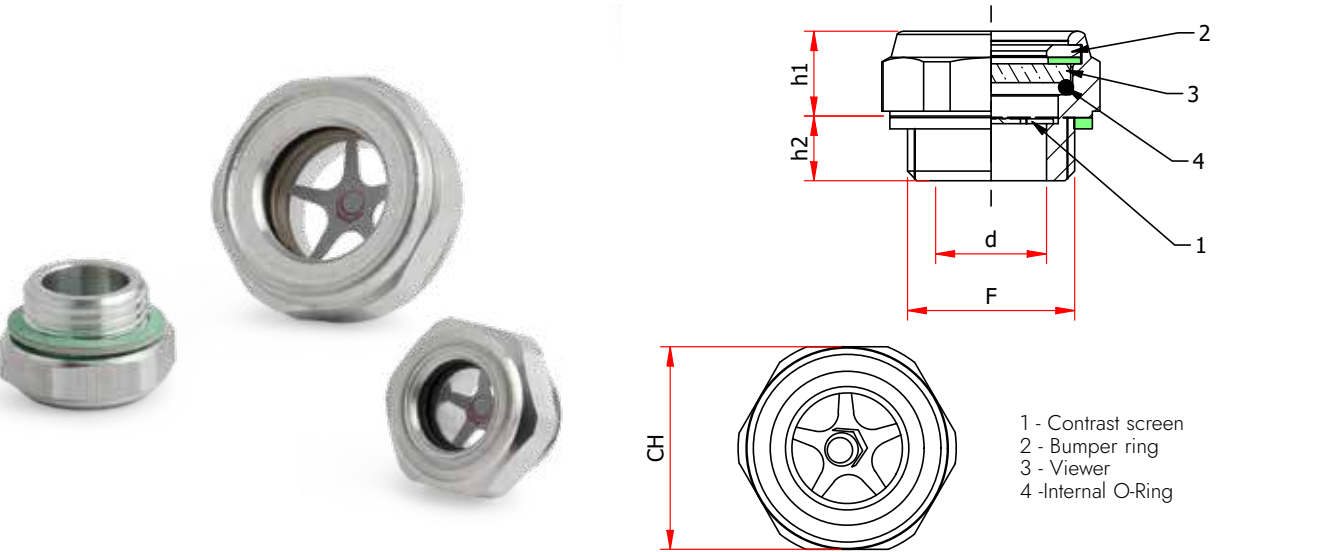
Max operating pressure: 5 bar/14,5 PSI.

Special versions

Sealing: flat aluminium gasket.

Cod.	F	CH	D	h1	h2	Nm	Weight gr	Pack.
SM/14	G.1/4"	17	19	18,8	8	4	5	100
SM/38	G.3/8"	22	24	18	9	10	9	100
SM/12	G.1/2"	27	29.5	20	9	15	15	100
SM/34	G.3/4"	32	35.5	22	11	22	22,5	50
SM/1	G.1"	40	44	22	10	25	35	50
SM/114	G. 1 1/4"	50	55	27	12	-	60	5
SM/112	G. 1 1/2"	55	62	26	13	-	80	5
SM/14.15	M14x1,5	17	18.5	17	8	4	5	100
SM/16.15	M16x1,5	22	24	18	9	10	8,5	100
SM/18.15	M18x1,5	22	24	18	9	12	14	100
SM/20.15	M20x1,5	24	26.5	21	10	15	12	100
SM/22.15	M22x1,5	27	29.5	20	9	15	15	100
SM/24.15	M24x1,5	30	33.5	24	11	18	22,5	100

SM/HP – OIL LEVEL INDICATOR - ALUMINUM AND NATURAL GLASS



Threaded hex-head oil level indicator for screw compressors, gearboxes or any others applications where high pressure and mechanical resistance are required. Internal contrast screen in aluminum helps the control of the level inside the tank.

Material: aluminum alloy.

Lens: natural glass with internal seal in FKM type VITON®.

Sealing: flat fiber gasket.

Maximum working temperature: 130°C/248°F.

Max operating pressure: 5 Bar/14,5 PSI with fiber seal, 20 Bar290 PSI with aluminium seal.

Special versions

Sealing: flat aluminium gasket.

Cod.	F	CH	d	h1	h2	Weight gr	Pack.
SM-12/HP	G.1/2"	27	14	10	9	16	25
SM-34/HP	G.3/4"	32	17,5	12,5	10	29	25
SM-1/HP	G.1"	40	23	13	10	50	10
SM-20,15/HP	M20x1,5	27	14	10	9	16	25
SM-33,15/HP	M33x1,5	40	23	13	10	50	10

38 – SPECIAL OIL LEVEL INDICATORS



Cod.	Material	Temp. °C	Bar
38B	Brass – glass	-10°C – 150°C	> 40 bar
38B.I	Stainless steel – glass	-10°C – 150°C	> 40 bar
38D	Aluminum – glass	-10°C – 150°C	> 10 bar
38D.I	Stainless steel - glass	-10°C – 150°C	> 10 bar
Cod.	Threads available		
38B	G. 1/2" – 3/4" – 1" – 1 1/4" – 1 1/2" – 2"		
38B.I	G. 1/2" – 3/4" – 1"		
38D	G. 1/4"- 3/8" – 1/2" – 3/4" – 1" – 1 1/4" – 1 1/2"		
38D.I	G. 1/4"- 3/8" – 1/2" – 3/4" -1" – 1 1/4"		