

HCX/LT

ELESA Original design

Column level indicator with float for indirect level reading



• Material

Transparent polyamide based (PA-T) technopolymer. Highly resistant to shocks, solvents, oils with additives, aliphatic and aromatic hydrocarbons, petrol, naphtha and phosphoric esters. Avoid contact with alcohol or detergents containing alcohol.

• Screws, nuts and washers

Zinc-plated steel.

• Packing rings

NBR synthetic rubber O-Ring.

• Float

Ebonite, black colour.

• Contrast screen

White lacquered aluminium. The housing, in the appropriate external rear slot, guarantees the best protection from direct contact with fluid, avoiding yellowing effect due to the prolonged action of the fluid at high temperatures.

It can be removed before installation to fit marks and words (for example MAX-MIN).

• Assembly

- When nuts can be fitted from the inside of the reservoir, by means of the supplied set screws and nuts.

- When nuts cannot be fitted from the inside of the reservoir and the walls are thick enough, by means of the supplied set screws, without nuts, by tapping the two holes in the reservoir walls.

To ensure the best sealing of the O-rings it is recommended to apply the maximum torque on the nuts as reported in the table and a roughness of the gasket application surface $Ra = 3 \mu m$.

• Maximum continuous working temperature

90°C (with oil).

Features and performances

HCX/LT column level indicator allows the oil level reading by means of a float when, due to the particular design of the system, the level cannot be seen directly from the lower part of the indicator.

The plastic foam float is moved upward by the oil contained in the reservoir. This system allows an indirect reading of the oil level. The red line on the lacquered contrast screen is visible only when the float is in its lowest position (minimum oil level).

Assembled using ultrasound welding to guarantee a perfect seal. Entirely in transparent material: maximum fluid level visibility even from side positions. Visibility magnified by lens effect.

Assembly instructions

To ensure proper assembly of the indicator, please follow these instructions:

1. Set the minimum oil level of your reservoir.
2. Drill two holes on the reservoir wall. The lower hole axis should be drilled at "m" distance (see table) under the minimum oil level. "m" is the minimum oil level allowed. This is the level from which the float starts to be moved upward.

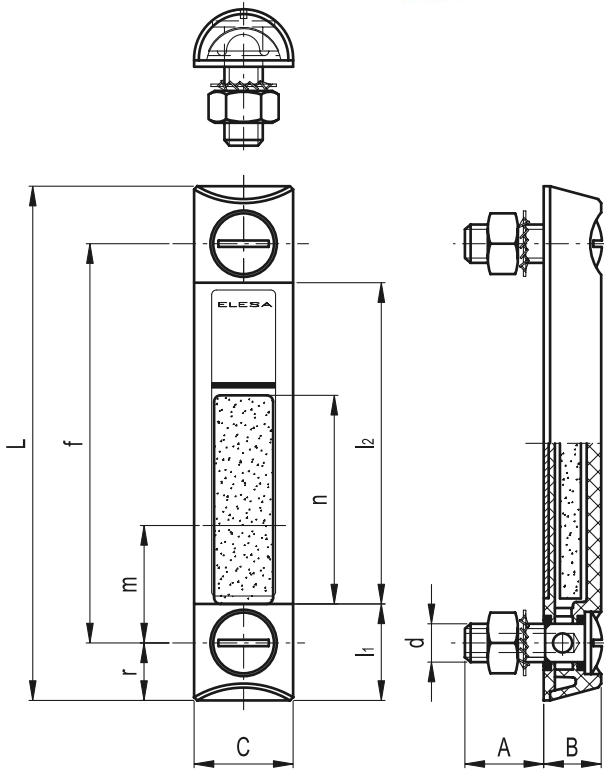
The value "m" is calculated with an oil density of 875 Kg/m³ at 15°C.

If the red line of the contrast screen appears, the oil level is under its minimum level allowed.

Technical data

In laboratory tests carried out with mineral oil for hydraulic systems type CB68 (according to ISO 3498) with gradually increasing pressure, at 23°C, the weld stood up to 12 bar.

In any case we suggest to verify the suitability of the product under the actual working conditions. If you need to use the indicator with other oils or fluids and under different pressure and temperature conditions, please contact ELESA Technical Department or carry out tests in order to guarantee a proper use.



Drilling and installation data

Code	d'-0.2	f'±0.2	Maximum tightening torque
HGX.254	12.5	254	6

Elesa Standards		Main dimensions											
Code	Description	f	d	A	B	C	L	l1	l2	m*	n	r	g
11364	HGX.254-LT-M12	254	M12	21	18	35	291	32	225	46	140	18.5	215

* See Assembly instructions.