

## Level indicators with thermometer

**Transparent technopolymer, for use with fluids containing alcohol, high UV resistance**

### BODY

Transparent polyamide based (PA-T/AR) technopolymer. Highly resistant to shocks, solvents, oils with additives, aliphatic and aromatic hydrocarbons, petrol, naphtha, phosphoric esters, additives and detergents containing alcohol. High UV resistance.

### PACKING RINGS

- NBR: synthetic rubber O-Ring.  
 - FKM: FKM type VITON®\*O-Ring.  
 Suggested roughness of the packing ring application surface Ra = 3 µm.

\* Registered trademark by DuPont Dow Elastomers.

### CONTRAST SCREEN

White lacquered aluminium. The housing, in the appropriate external rear slot, guarantees the best protection from direct contact with fluid.

It can be taken out from the inclined side, before assembly to allow the insertion of level lines or words.

### THERMOMETER

Incorporated thermometer for temperature reading.

### STANDARD EXECUTIONS

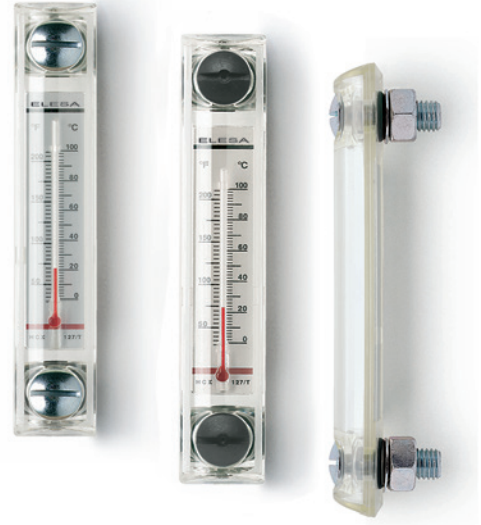
- Bulb with red colour liquid
- **HCX/T-AR**: zinc-plated steel screws, nuts and washers, NBR packing ring.
  - **HCX/T-AR-SST**: AISI 303 stainless steel screws, AISI 304 stainless steel nuts and washers, FKM packing ring.
  - **HCX/T-AR-VT**: glass-fibre reinforced polyamide based (PA) SUPER-technopolymer screws, AISI 304 stainless steel nuts and washers, NBR packing ring.
- Bulb with blue colour liquid
- **HCX/TB-AR**: zinc-plated steel screws, nuts and washers, NBR packing ring.
  - **HCX-AR-SST**: AISI 303 stainless steel screws, AISI 304 stainless steel nuts and washers, FKM packing ring.

### MAXIMUM CONTINUOUS WORKING TEMPERATURE

90°C (with oil).

### FEATURES AND PERFORMANCES

Ultrasound welding to guarantee a perfect seal.  
 Maximum fluid level visibility even from side positions.  
 Lens effect for a better visibility of the fluid level and temperature.  
 Thanks to the SUPER-technopolymer screws, HCX/T-AR-VT column level indicator can be used in corrosion resistance applications where stainless steel is not necessary.  
 The special slotted head of the SUPER-technopolymer screws is especially designed to reach an optimum tightening of the packing rings by applying an adequate tightening torque (ELESA patent) thus avoiding unnecessary stress to the screws.



ELESA Original design

### TECHNICAL DATA

In laboratory tests carried out with mineral oil type CB68 (according to ISO 3498) at 23°C for a limited period of time, the weld stood up to: 13 bar (HCX.76-AR and HCX.127-AR) 10 bar (HCX.254-AR). Considering the SUPER-technopolymer screws, the maximum working pressure cannot be higher than 5 bar at 20°C and 2 bar at 90°C.

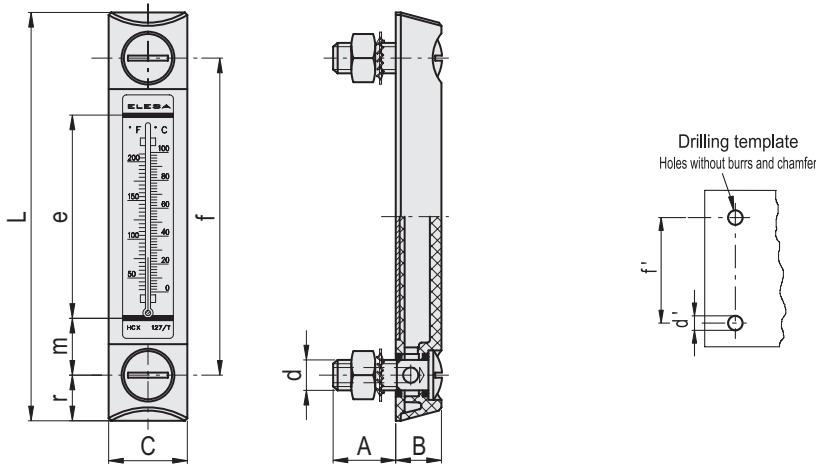
For use with other fluids and under different pressure and temperature conditions, please contact ELESA Technical Department.  
 In any case we suggest to verify the suitability of the product under the actual working conditions.

### SPECIAL EXECUTIONS ON REQUEST

Indicators with cylindrical or step-shaped (NBR or FKM) packing rings (instead of OR) for mounting on reservoirs having rough surfaces or in any case not perfectly flat.

### ACCESSORIES ON REQUEST

When fitting is not possible from the inside of the reservoir and the walls are not thick enough, the screws can be used together with Fast Mounting Kit (see page -)



### HCX/T-AR

Code	Description	f	d	A	B	C	L	e	m	r	d'-0.2	f'±0.2	Thermometer scale°C	Thermometer scale°F	C# [Nm]	⚖️
11347-R	HCX.76/T-AR-M10	76	M10	22	16	27	107	40	18	15.5	10.5	76	20±100	68±210	12	87
11354-R	HCX.127/T-AR-M10	127	M10	23	18	31	161	80	23	17	10.5	127	0±100	32±210	12	138
11357-R	HCX.127/T-AR-M12	127	M12	23	18	31	161	80	23	17	12.5	127	0±100	32±210	12	138
11367-R	HCX.254/T-AR-M12	254	M12	21	18	35	291	203	26	18.5	12.5	254	0±100	32±210	10	185

### HCX/T-AR-SST

STAINLESS STEEL

Code	Description	f	d	A	B	C	L	e	m	r	d'-0.2	f'±0.2	Thermometer scale°C	Thermometer scale°F	C# [Nm]	⚖️
11348-R	HCX.76/T-AR-SST-M10	76	M10	22	16	27	107	40	18	15.5	10.5	76	20±100	68±210	12	87
11358-R	HCX.127/T-AR-SST-M12	127	M12	23	18	31	161	80	23	17	12.5	127	0±100	32±210	12	138
11368-R	HCX.254/T-AR-SST-M12	254	M12	21	18	35	291	203	26	18.5	12.5	254	0±100	32±210	10	185

### HCX/T-AR-VT

Code	Description	f	d	A	B	C	L	e	m	r	d'-0.2	f'±0.2	Thermometer scale°C	Thermometer scale°F	C# [Nm]	⚖️
111361-R	HCX.127/T-AR-VT-M12	127	M12	23	18	31	161	80	23	17	12.5	127	0±100	32±210	6	94
111381-R	HCX.254/T-AR-VT-M12	254	M12	21	18	35	291	203	26	18.5	12.5	254	0±100	32±210	6	141

### HCX/TB-AR

Code	Description	f	d	A	B	C	L	e	m	r	d'-0.2	f'±0.2	Thermometer scale°C	Thermometer scale°F	C# [Nm]	⚖️
11446-R	HCX.76/TB-AR-M10	76	M10	22	16	27	107	40	18	15.5	10.5	76	20±100	68±210	12	87
11456-R	HCX.127/TB-AR-M12	127	M12	23	18	31	161	80	23	17	12.5	127	0±100	32±210	12	94
11466-R	HCX.254/TB-AR-M12	254	M12	21	18	35	291	203	26	18.5	12.5	254	0±100	32±210	10	141

### HCX/TB-AR-SST

STAINLESS STEEL

Code	Description	f	d	A	B	C	L	e	m	r	d'-0.2	f'±0.2	Thermometer scale°C	Thermometer scale°F	C# [Nm]	⚖️
11448-R	HCX.76/TB-AR-SST-M10	76	M10	22	16	27	107	40	18	15.5	10.5	76	20±100	68±210	12	87
11458-R	HCX.127/TB-AR-SST-M12	127	M12	23	18	31	161	80	23	17	12.5	127	0±100	32±210	12	138
11468-R	HCX.254/TB-AR-SST-M12	254	M12	21	18	35	291	203	26	18.5	12.5	254	0±100	32±210	10	185

# Maximum tightening torque.

