

**MATERIAL**

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

**PROTECTION FRAME**

Glass-fibre reinforced polyamide based (PA) SUPER-technopolymer, black colour, matte finish. Supplied assembled, removable by a screwdriver.

**SCREWS AND NUTS**

Zinc-plated steel.

**PACKING RINGS**

Step-shaped for the seal on the reservoir walls and NBR synthetic rubber O-ring screw underneath.

Roughness of the packing ring application surface Ra = 3 µm.

**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.

**STANDARD EXECUTIONS**

- **HCZ:** without thermometer and without protection frame.
- **HCZ/T:** with thermometer incorporated, without protection frame.
- **HCZ-P:** without thermometer, with protection frame.
- **HCZ/T-P:** with thermometer incorporated and protection frame.

**MAXIMUM CONTINUOUS WORKING TEMPERATURE**

194°F (90°C), (with oil).

**FEATURES AND PERFORMANCES**

Ultrasound welding to guarantee a perfect seal. Lens effect for a better visibility of the fluid level and temperature. Special openings in the protection frame provide maximum fluid level visibility even from side positions. All shocks are absorbed by the frame that transmits them directly onto the wall of the reservoir.

**TECHNICAL DATA**

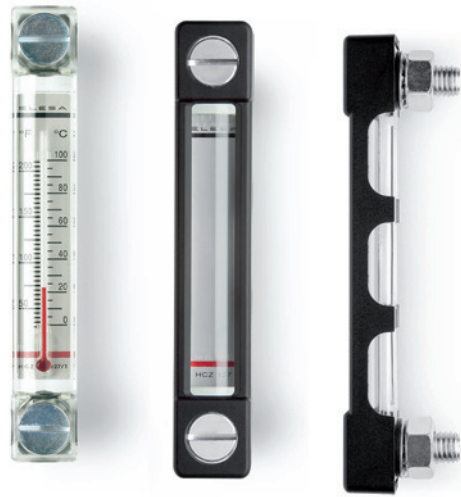
In laboratory tests carried out with mineral oil type CB68 (according to ISO 3498) at 23°C for a limited period of time, the weld stood up to: 18 bar (HCZ.76 and HCZ.127) 12 bar (HCZ.254).

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**

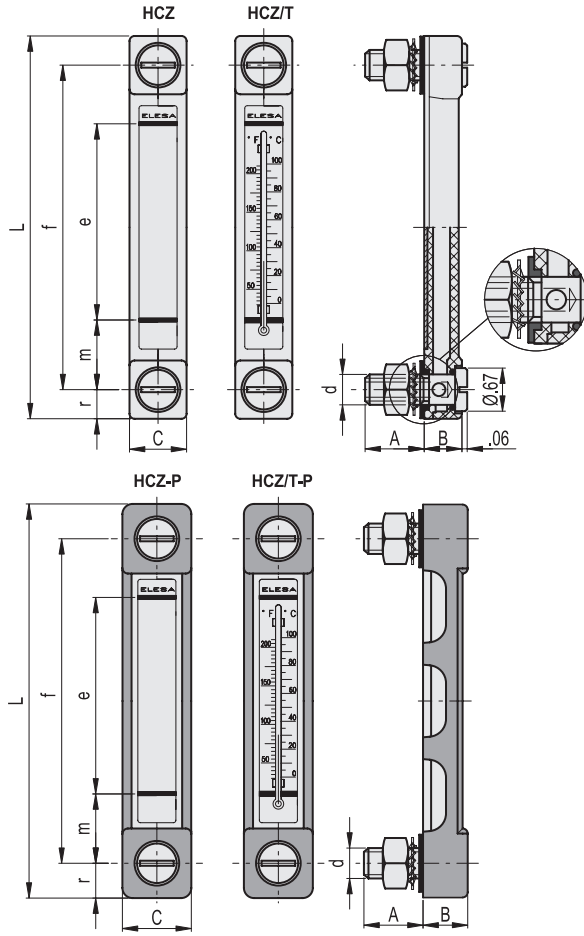
- HCZ.127: with M10 screws and nuts.
- UV resistant transparent technopolymer indicators.



ELESA Original design



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**INCH**

**HCZ.**

Code	Description	f	d	A	B	C	L	e	m	r	d <sup>±0.2</sup>	f <sup>±0.2</sup>	C# [ft-lb]	Δ
911382	HCZ.76-1/2-13	2.99	1/2-13	0.87	0.59	0.87	3.9	1.57	0.71	0.45	0.41	2.99	9	0.2
911385	HCZ.127-1/2-13	5	1/2-13	0.87	0.59	0.87	5.91	3.15	0.91	0.45	0.49	5	9	0.26
911388	HCZ.254-1/2-13	10	1/2-13	0.87	0.59	0.94	10.94	7.99	0.98	0.49	0.49	10	9	0.33

**HCZ/T**

Code	Description	f	d	A	B	C	L	e	m	r	d <sup>±0.2</sup>	f <sup>±0.2</sup>	Thermometer scale°C	Thermometer scale°F	C# [ft-lb]	Δ
911383	HCZ.76/T-1/2-13	2.99	1/2-13	0.87	0.59	0.87	3.9	1.57	0.71	0.45	0.41	2.99	20+100	68+210	9	0.2
911386	HCZ.127/T-1/2-13	5	1/2-13	0.87	0.59	0.87	5.91	3.15	0.91	0.45	0.49	5	0+100	32+210	9	0.27
911389	HCZ.254/T-1/2-13	10	1/2-13	0.87	0.59	0.94	10.94	7.99	0.98	0.49	0.49	10	0+100	32+210	9	0.37

**HCZ-P**

Code	Description	f	d	A	B	C	L	e	m	r	d <sup>±0.2</sup>	f <sup>±0.2</sup>	C# [ft-lb]	Δ
911392	HCZ.76-P-1/2-13	2.99	1/2-13	0.87	0.69	1.06	4.13	1.57	0.71	0.57	0.41	2.99	9	0.22
911395	HCZ.127-P-1/2-13	5	1/2-13	0.87	0.69	1.06	6.14	3.15	0.91	0.57	0.49	5	9	0.3
911398	HCZ.254-P-1/2-13	10	1/2-13	0.87	0.69	1.14	11.18	7.99	0.98	0.61	0.49	10	9	0.33

**HCZ/T-P**

Code	Description	f	d	A	B	C	L	e	m	r	d <sup>±0.2</sup>	f <sup>±0.2</sup>	Thermometer scale°C	Thermometer scale°F	C# [ft-lb]	Δ
911393	HCZ.76/T-P-1/2-13	2.99	1/2-13	0.87	0.69	1.06	4.13	1.57	0.71	0.57	0.41	2.99	20+100	68+210	9	0.22
911396	HCZ.127/T-P-1/2-13	5	1/2-13	0.87	0.69	1.06	6.14	3.15	0.91	0.57	0.49	5	0+100	32+210	9	0.31
911399	HCZ.254/T-P-1/2-13	10	1/2-13	0.87	0.69	1.14	11.18	7.99	0.98	0.61	0.49	10	0+100	32+210	9	0.33

Accessories for hydraulic systems