



Components for
construction vehicles,
equipment and machinery

STANDARD MACHINE ELEMENTS WORLDWIDE



elesa®

ELESA, the worldwide leader in the design and manufacture of **standard machine elements** in engineering plastics and metal, presents an extensive range of accessories for hydraulic systems and a wide range of components for all manoeuvring, clamping and control operations and hinges for **construction vehicles and equipment**.



Over 75 years of leadership make ELESA the point of reference for designers and manufacturers. Over 40,000 product codes creates an annual production of tens of millions of pieces, more than 180 patents worldwide, 39 international awards in Industrial Design, ISO 9001 certification, ISO 14001, BS OHSAS 18001 and AEOF, are the numbers that sum up our business.

11 foreign subsidiaries and a close collaboration with the most qualified distributors worldwide ensure an efficient and timely service coupled with the guarantee of technical consultancy from the groups' Monza Headquarters.

Points of strength

- 180 PATENTS AND REGISTERED DESIGNS
- 39 INDUSTRIAL DESIGN AWARDS
- WORLDWIDE DISTRIBUTION
- FULL STOCK AVAILABILITY
- CUSTOMISED SOLUTIONS
- TECHNICAL COMPETENCE AT THE CUSTOMER'S SERVICE
- ISO 9001 - ISO 14001 - BS OHSAS 18001



FM 23747



EMS 518430



OHS 584384

Find out more about ELESA standard elements on elesa.com

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ELESA presents a wide range of **standard elements in engineering plastics and metal for equipment and machinery for the construction and building industry** which operate in particularly unfavourable conditions and sometimes in explosive atmosphere. High or low temperatures, high humidity, high pressure and contact with different chemical substances are some of the most common conditions of use. Therefore, **reliable components** in functionality, quality and performance are essential and of the utmost importance.



Application of SFP+a filler breather cap with splash guard and dipstick.



Application of SFV-VP double-valve pressurised breather cap "vandal-proof".



Application of HCFE. oil circulation sight.

SFP+a



Breather caps with splash guard and dipstick

Material technopolymer, NBR packing ring
Max. temp. 100°C/120°C **Diameters** 30 to 70 mm **Threads** G1/4" to G2" M16x1.5 to M22x1.5 Execution SFP.EX compliant with European Directive ATEX 94/9/EC.



SFV-VP

Double-valve pressurised breather caps "vandal-proof"

Material technopolymer, NBR packing ring. Safety (0.350 bar) and suction (0.030 bar) valves. **Max temperature** 100°C. "Vandal-proof" safety device.



HCFE.



Oil circulation sights

Material transparent technopolymer, NBR packing ring **Max. temperature** 110°C
Threads G3/8" to G1 1/4" Execution HCFE-EX compliant with European Directive ATEX 94/9/EC.



You can also find:

T.440
Plugs



TSD.
Oil drain plugs



GN 741
Plugs



SFV.
Valve breather caps



SMW-BA
Double-valve breather caps with bayonet assembly



HFTX-PR
Oil level indicators with prismatic window



HGFT.
Oil level indicators



Accessories for hydraulic systems

The full range of ELESA accessories for hydraulic systems is available **in a variety of production materials**: plastic, aluminium, brass, zinc-plated steel or Stainless steel with NBR synthetic rubber, FPM or FKM (type Viton*) to withstand different liquid/oil temperatures.

Plugs, filler breather caps and oil level indicators are available with **different types of threads**: ISO-Metric, GAS-BSP and UNC-UNF or NPT for the American market.

* Registered Trademark by DuPont Dow Elastomers

21 different types of column level indicators with or without thermometer and protection frame. Also available with electrical sensor or probe for MAX temperature and MIN level. The body of the indicator, entirely in transparent technopolymer, is assembled using ultrasonic welding to guarantee a perfect seal ensured by 100% electronic control during production. A progressive serial number for the traceability of every single indicator is laser engraved on its rear side. Total compatibility with commonly used chemicals, hot water and alcohol together with the utmost resistance to shocks represent additional features that make ELESA range unique.

Application of HFTX. oil level indicator.



Application of HCZ-P with SUPER-Technopolymer protection frame.



Application of HCX. column level indicator with incorporated thermometer.

HFTX.

Oil level indicators

Material transparent technopolymer, aluminium contrast screen, NBR packing ring
Max. temperature 110°C **Threads** G1/4" to G1 1/4, M16x1.5 to M40x1.5



HCZ-P

Column level indicators with SUPER-Technopolymer protection frame

Transparent technopolymer, NBR O-rings, aluminium contrast screen, zinc-plated steel screws, SUPER-Technopolymer protection frame
Max. temperature 90°C
Centre dist. 76 to 127 mm



HCX.

Column level indicators

Transparent technopolymer, NBR or FKM O-rings, aluminium contrast screen, zinc-plated, technopolymer or st. steel screws
Max. temperature 90°C
Centre dist. 76 to 254 mm



GN 743.3

Oil level indicators for high temperatures



GN 743.6

Oil level indicators



HCX-P

Column level indicators with metal protection frame



HCK.

Column level indicators with transparent polycarbonate protection



Customisable length

HCX-E

Column level indicators with electrical sensor/probe



HFL-E

Rapid level indicators with float



Standard machine elements for manoeuvring, clamping and control operations for construction vehicles and equipment

An extensive range of **clamping knobs** and adjustable **levers**; lift, pull and revolving handles; **control knobs** and **control levers**; **hinges** all made in special technopolymer resistant to solvents, oils, greases and other chemical agents or aluminium, zinc-plated steel or stainless steel with the greatest care in surface finishing. **Ergonomics combined with a unique design, a well-proven quality and a perfect functionality.**



Application of GN 300.5 stainless steel adjustable levers



Application of I.222 and I.280 Duroplast handles



Application of GN 565 aluminium U-handles



Application of (clockwise) M.443 technopolymer U-handle, MT. technopolymer crank handle, VC.192 Duroplast clamping knob, CFA. technopolymer hinge





ELESA. More and more...



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