



Engineering your competitive advantage

Your partner for the development and production of state-of-the-art precision components for the separation, transportation and dosing of liquids, vapors and gases in HVAC installations and heavy duty equipment and machinery

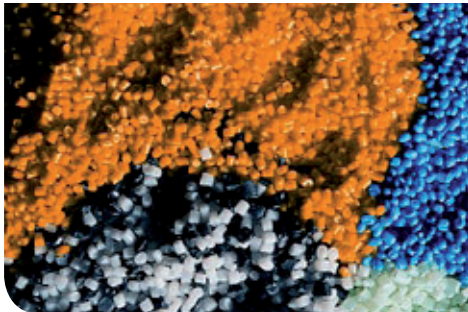


Industrial Control



Helvoet

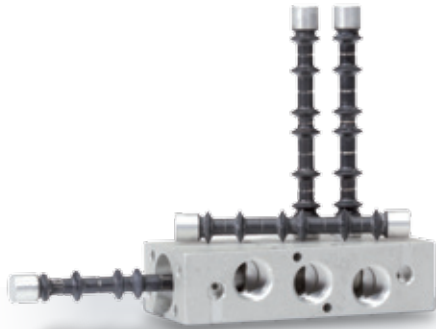
Since its foundation in 1939, Helvoet has acquired a great deal of expertise in the development and production of single and assembled plastics and rubber products. With about 650 employees and locations in the Netherlands, Belgium, India and the United States we provide global support to many leading customers. Innovative product development, specific knowledge of applications and continuous improvement of our sophisticated production technologies are important capabilities of Helvoet. We give our customers a lead in their market segment, giving definite meaning to our motto 'Engineering your competitive advantage'.



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ISO 9001
ISO 16949
ISO 14001



Spools

In the world of pneumatics and hydraulics, for industrial applications and equipment, the sealing of critical and elementary functions is imperative. Helvoets' knowledge of materials, rubber & plastic component manufacturing, bonding of soft to hard surfaces and our engineering capabilities provide the best product and function for this purpose. This combination is proven with one of the key players in the industry, the Parker Group.

Spools

Spools (or armatures) are often found in pneumatic and hydraulic systems of heavy duty equipment, machines, brake systems, trucks, trains and busses, but also in industrial systems. These special spools have a multiple purpose of sealing, actuating and controlling system functions. High precision, superior quality, safety, reliability and durability under extreme conditions (mechanical, temperature, chemical harsh environment) are main criteria for the users.

Our spools contain solenoids which are usually equipped with one or two rubber seals, either by assembly or over moulding. Our in-house combination of application expertise material knowledge and function integration provides the best possible solution for your demands.

With an early involvement in the development of your innovations, Helvoet can support and propose cost effective solutions from the design to manufacturing and quality control.

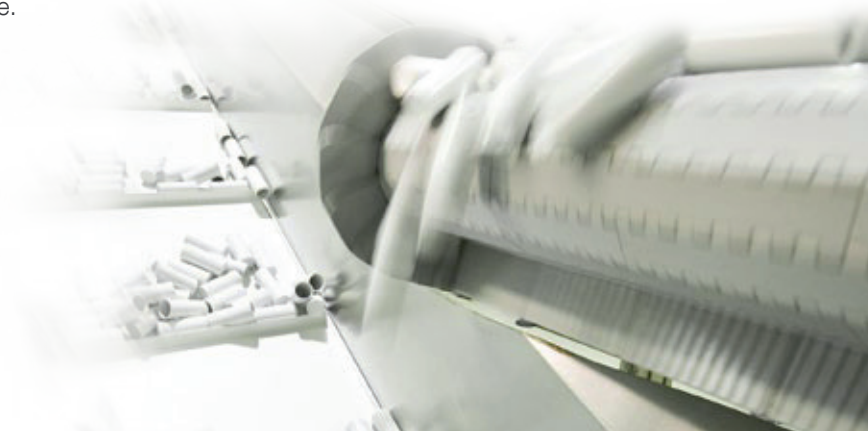


Vacuum actuators

For a leading customer in Germany, Helvoet has developed a vacuum actuator that replaces an electrical or hydraulic function with a vacuum-air system. This actuator enables the controlled movement of a key system when actuated by the system operator. Not only has this design lead to a reliable sub-system, moreover it has reduced the component manufacturing cost by 30% and substantially decreased the daily operating cost of the customer.

Vacuum actuators

Vacuum actuators are used in a variety of industrial applications to operate different types of valves to control a flow of a fluid, gas or air. Our ability to design and produce custom vacuum actuators according to customer specification sets Helvoet apart. The key component of the actuator is the membrane. The elongation under stress, the permeability, the shape, the temperature resistance and the capability to return to its original position during millions of operations, without tearing or leakage are the most important design features of the membrane. FEA tools have been developed by Helvoet to optimize the design in the development stage.





Precision housing

A thermocouple is the key element of the gas-cooking safety device. This component is made out of several critical parts that all need to fit perfectly other to guarantee the optimal function. Material knowledge, high precision moulding and top level quality are imperative capabilities needed to ensure state of the art production and sustainability for this safety device.



Rubber seals and valves

Seals and valves are the most critical components of all liquid and gas management systems. Made from rubber or LSR, Helvoet has the knowledge and track record to develop, engineer and produce seals and valves, customized to your needs and quality demands. We cover over 70 years of experience in this field.

Highest precision in industrial markets meeting highest demands of customers

Helvoet develops and manufactures a wide range of high precision components for the separation, transportation and dosing of liquids, vapors and gases. The unique combination of industrial product development, material competence, world class manufacturing capabilities and assembly knowledge provide our customers with the best competitive edge; from concept to realization. These products must meet the highest demands on function, quality, safety and endurance. Markets served are Industrial appliances, Heating, Ventilation and Airconditioning Systems. In almost all of today's buildings, utilities, houses, kitchens, bathrooms, heavy duty equipment and machinery you can find Helvoet products, performing control sealing functions. Our quality, reliability and sustainability is worth your challenge.

Outstanding flexibility in any combination

The mix of complementing technologies makes Helvoet stand out as a component partner for all HVAC manufacturers and suppliers of industrial appliances and machines. With Helvoet, customers can choose any combination of production technique. We master customized mixing of compounds, the various methods of processing rubber: liquid silicone rubber, injection moulding, compression moulding. Helvoet produces components in various combinations: metal-rubber, plastics-rubber, metal-plastic and on top of that, Helvoet also develops metal replacements to improve costs and performance. Our state-of-the-art production and assembly processes guarantee flawless products, meeting all high demands in terms of geometry, thin-walled and precision tolerances. Resulting into optimally tuned products that smoothly fit into the production and assembly processes of our customers.





“USE OUR KNOWLEDGE AND
EXPERTISE FOR YOUR BENEFIT
AND THE WORLD THAT WE SHARE”



High end products for industrial systems

Housing components

Helvoet has developed its expertise in precision housing products in close cooperation with major industrial players. This industry requires the highest level of safety and accuracy of their narrow tolerance products as safety and the environment is a key element.

These components have often a specific function in the complete system, to cover, close and protect moving parts or the systems function. E.g. gas safety devices, water- or gas membranes, magnetic valves, gas flow systems, gas burner components. Helvoet combines precision plastic (including thermoset materials) with rubber technology. Their high precision demand, superior quality requirements and enduring function enable the industry to maintain their leadership position.

Seals & Valves

Over 70 years of experience with rubber technology has made us the expert in sealing and valves technology. In the most extreme conditions, our components make sure liquids, vapors and gases are correctly separated and transported. Our components are often the technical core of central heating systems, gas- and water applications, pneumatic- and hydraulic equipment and professional appliances. Seals and sealing components are integrated in a variety of devices that find their way to system suppliers and original equipment manufacturers. To close, fix, seal, control, throttle, isolate, damp, protect and optimize your innovations!

Helvoet has the in-house capabilities and knowledge to develop a custom made compound which comprises the properties needed for the specific fluid or gas under the specific conditions. This ensures the seal will perform over a longer period of time. We model our compounds with dynamic FEA software for these conditions. Helvoet is your global partner for the development, the design and the industrialization of seals and sealing components. Our manufacturing capabilities are in place to feed mass production lines.



Bonded valves

The core technology from Helvoet: A wide range of valves for pneumatics based on Helvoet compounds and bonding technology is used in the industry. Development of rubber compound and production process is all done in-house.



Non return valves

Specific to the HVAC industry and water management in houses and buildings, a non return valve is the last resort as safety against water damages by overflow. Helvoets' track record and capability to design, engineer, produce and assemble a complete NRV is proven for more than 20 years. Our knowledge of materials (rubber-plastic-2K) assures the optimum quality in design and manufacturing. Our state of the art facility in India produces, assembles and tests these non return valve for supplies all over the world.