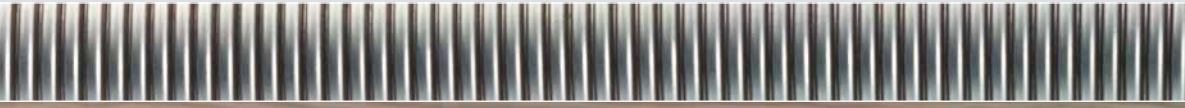


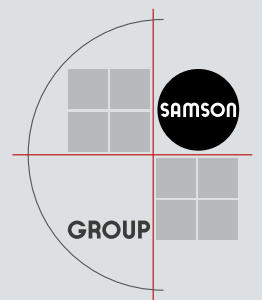
ZERO

emissions technology

SAMSON



We leave
nothing to chance



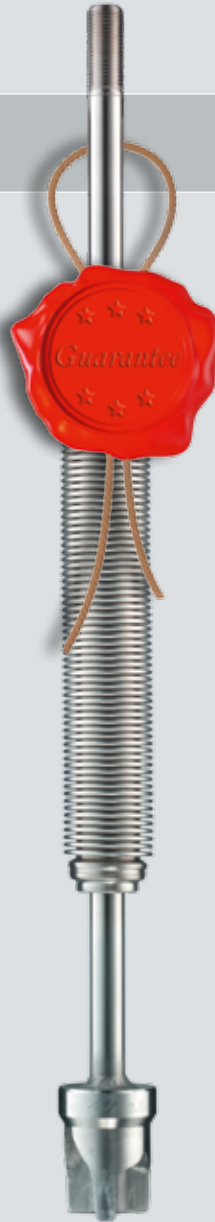
ZERO emissions technology

Unparalleled sealing performance

The sealing performance of the SAMSON bellows contributes to the safety and environmental compatibility of our customers' plants.

The sealing performance of the SAMSON bellows remains unsurpassed over the valve's entire service life. If the bellows is heated or flushed to prevent crystallizing media or deposits from clogging it up, the bellows can guarantee zero emissions throughout the valve's entire service life without creating friction or requiring maintenance, even in critical applications.

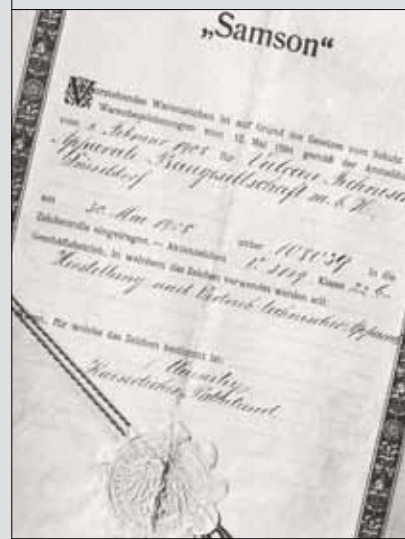
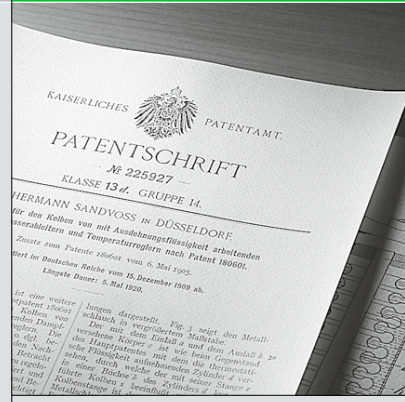
We leave nothing to chance.



A groundbreaking invention

When it comes to our unparalleled bellows seal technology, we do not leave anything to chance. The bellows seal is one of the groundbreaking inventions originating from SAMSON and can be traced back to our founding father, Hermann Sandvoss.

Since Hermann Sandvoss filed a patent on the use of seamless bellows for liquid-filled steam traps and temperature regulators in 1905, SAMSON has been recognized as a world leader in this field.



SAMSON: an internationally recognized brand name

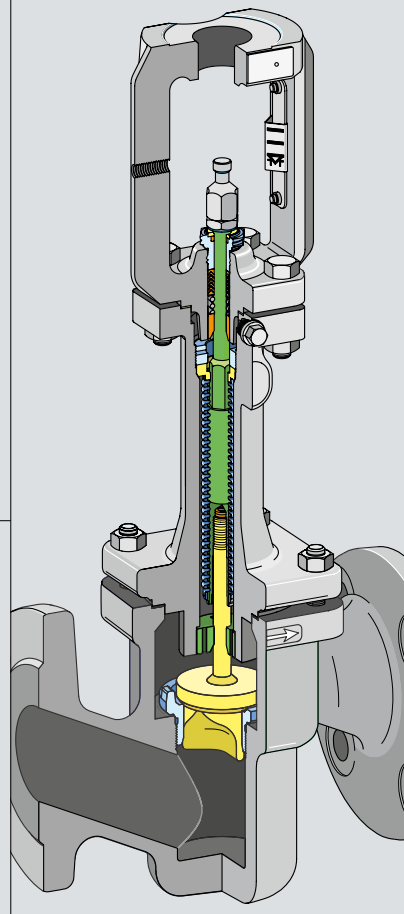
ZERO emissions technology

For the good of the environment

Over 100 years of innovation, research and development have resulted in the time-tried bellows seal design produced at SAMSON: an enormous advantage in view of increasingly stricter environmental protection and fugitive emission regulations. SAMSON's bellows seals reliably ensure that the process medium in the valve cannot leak to the atmosphere.



SAMSON produces its bellows from corrosion-resistant materials



Keeping the air clean

Environmental protection and the sustainable use of natural resources have become key issues in modern society. Laws and regulations, such as the Clean Air Act in the United States or TA Luft in Germany, lay down limits for emissions produced by industrial plants. SAMSON valves assist our customers in observing these limits. In addition, a bellows seal can be used to prevent leakage at the plug stem.

Clean Air



ZERO emissions technology

High quality over a long service life

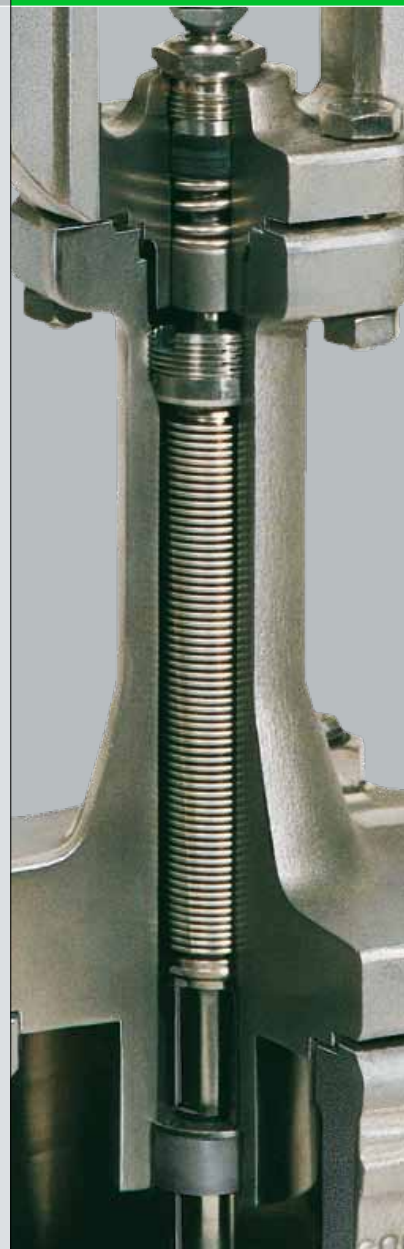
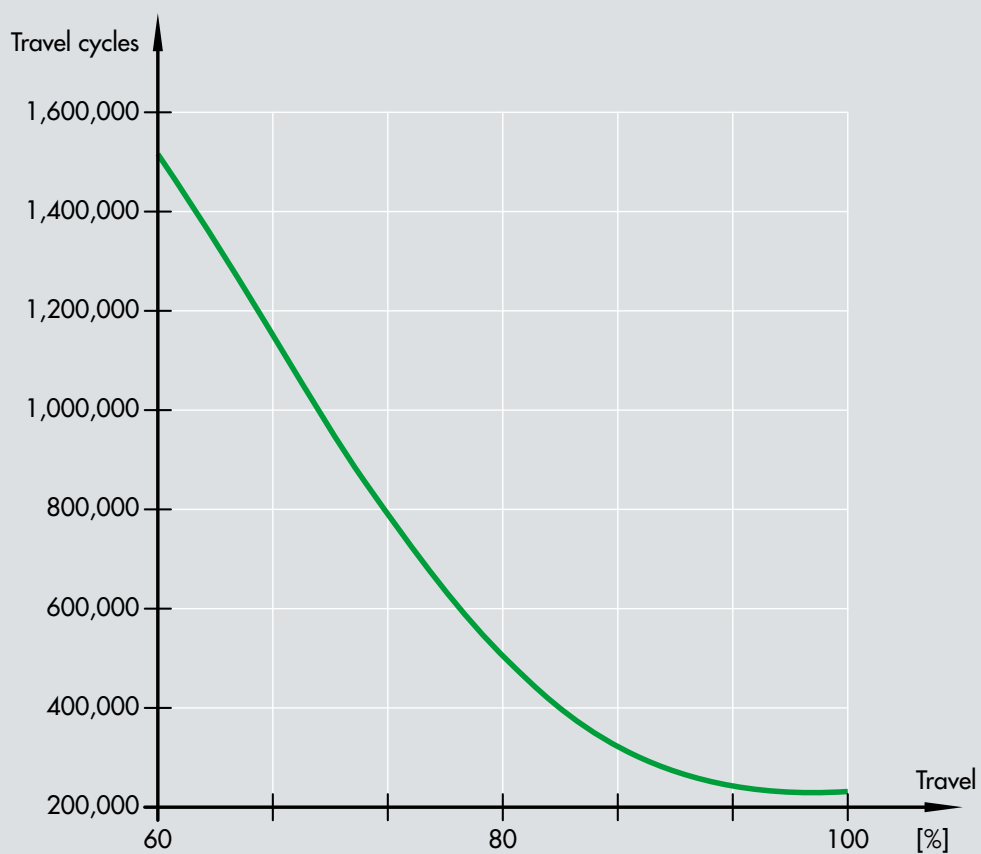
SAMSON supplies modular low-cost and high-quality bellows seals to handle high pressures and temperatures, while having an extraordinarily long service life for all valve sizes and pressure ratings. The metal bellows are competently sized and manufactured to meet our customers' requirements.



Helium leak testing according to the sniff or vacuum method



Service life of metal bellows

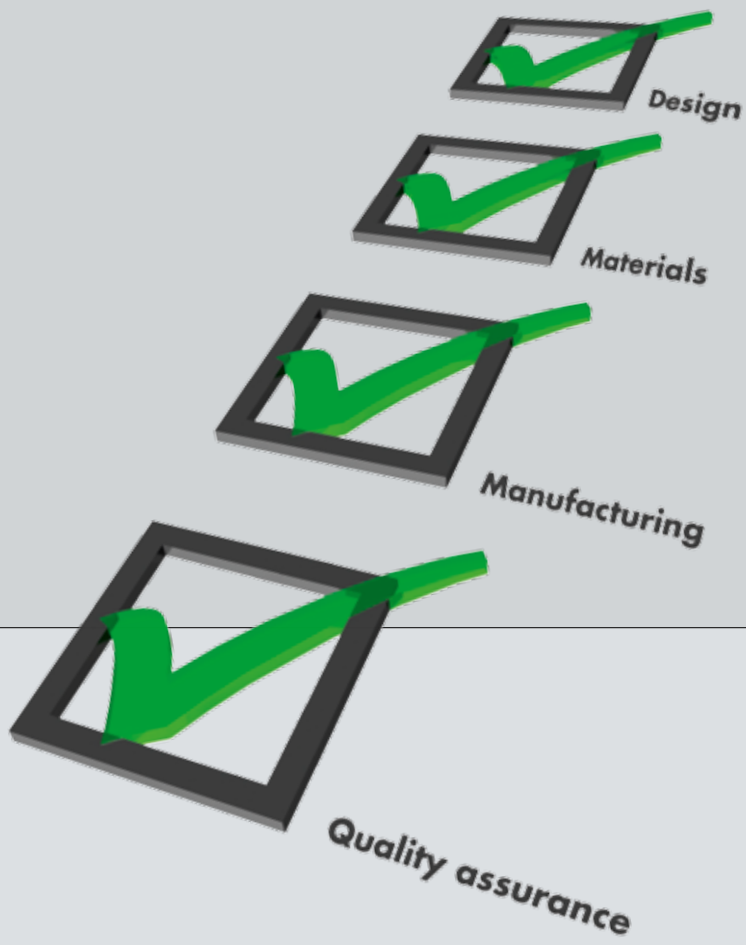


ZERO emissions technology

Under close scrutiny

Strength, leak and functional tests are performed on our computerized test benches.

The Quality Assurance Department at SAMSON additionally ensures that the valves to be delivered really comply with the customer specifications. This includes making sure that products conform properly to the standards of the country of destination.



To buy or not to buy?

In order to succeed against the international competition, companies need to manufacture top quality products at low cost. An essential prerequisite is a low-maintenance plant with short downtimes.

As a result, the valves in a plant are not only selected depending on the purchase price, but also based on the costs over their life cycle, including the cost of energy, repair and maintenance.

True, a metal bellows costs more than a packing. But when the packing needs to be replaced for the first time, these extra costs will soon be forgotten in view of the considerable plant downtime caused. The same applies to an actuator with a greater actuating force, which is more expensive than a pressure-balanced solution. However, the more powerful actuator provides a lower hysteresis and leakage rate, and it may not be necessary to repeatedly replace worn-out gaskets.

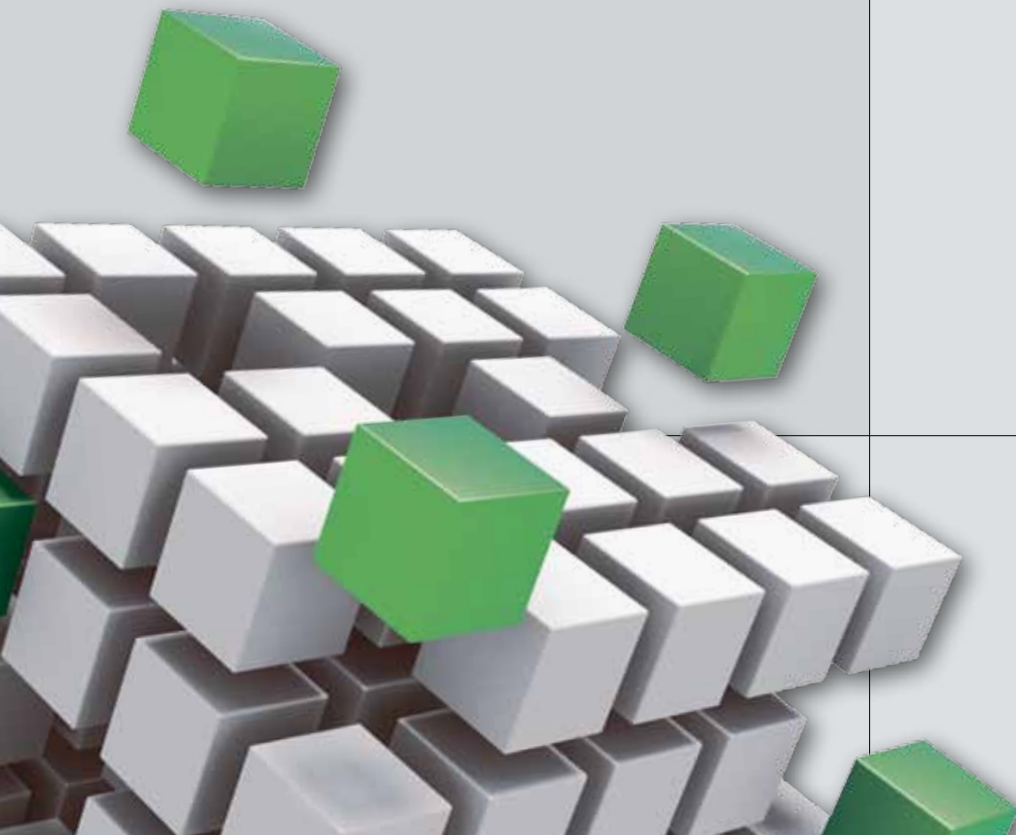
The reliable and economically viable solutions by SAMSON ensure the competitiveness of our customers in the international market.



ZERO emissions technology

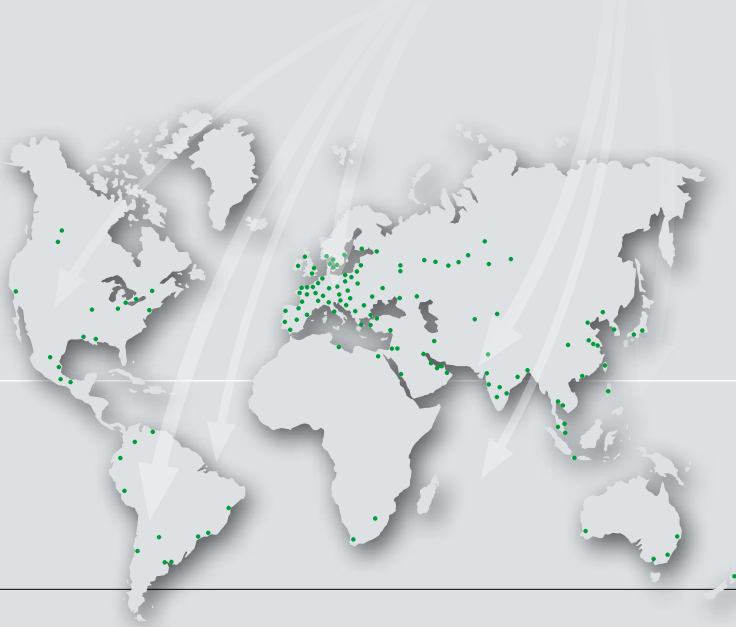
Monitoring for leakage

The sealing performance of the valve while in operation depends on the load acting on the bellows. The dynamic load factor can be reliably monitored when a Type 3730 or Type 3731 Electropneumatic Positioner is mounted on the valve. The EXPERTplus valve diagnostics integrated into these positioners continuously assess the cycle spans of the bellows and immediately issue a warning about external leakage on site at the positioner or over the HART®, FOUNDATION™ fieldbus or PROFIBUS-PA protocol.



Global after-sales service

SAMSON is a worldwide leader in the manufacture of expertly engineered control valves and accessories for all industrial processes. Noted manufacturers of special valves, such as AIR TORQUE, CERA SYSTEM, LEUSCH, PFEIFFER, SAMSOMATIC, STARLINE and VETEC are members of the SAMSON GROUP. With a global service network in over 55 countries, SAMSON is able to provide fast customer service on a local basis. Experienced SAMSON staff supports customers during plant start-up, maintenance and repair. To make the expertise available where it is needed, SAMSON offers comprehensive service training either at specialized workshops or on the job, including training schemes tailored to our customers' needs. Hands-on training keeps customers up to date with the latest control technology, ensuring that they are able to run their plant safely and minimize downtime.



The SAMSON site at Frankfurt am Main in Germany has grown to 130,000 m²

ZERO

ZERO



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