A quality promise
Our aim is simple: Perfection.
The result: products on the very highest level.

HEROSE is one of Europe’s leading manufacturers of valves for industrial applications. For over 140 years we have developed, produced and sold valves for cryogenic technology and pressure vessel construction and set standards for the safe handling of technical gases, vapours and liquids. With a production volume of more than 400,000 valves per year, we are one of the most experienced suppliers in our sector. Our products are in successful use throughout the world.

Our partners in industry and business expect us to supply reliable valves, which meet the high demands of the future. They also expect a sound company and continuous product development from their business partners. These values form the foundation of the HEROSE company philosophy.
Our aim is simple: Perfection. The result: products on the very highest level.

We ensure safe handling of gases, vapours, liquids, granular and powdered media.

From brake systems in high speed trains to the desalination of seawater and from distillation to vibration-tested safety valves in silo vehicles, you invest in functionality with maximum efficiency.

We enable safe handling of cryogenic technical gases and LNG applications.

HEROSE valves for cryogenic technology are internationally certified and are in use throughout the world. Whether for protecting vessels and piping systems from excess pressure, or for the storage and transport of liquefied natural gas and cryogenic industrial gases down to -270°C.

We ensure safe handling of gases, vapours, liquids, granular and powdered media.

From brake systems in high speed trains to the desalination of seawater and from distillation to vibration-tested safety valves in silo vehicles, you invest in functionality with maximum efficiency.

We contribute to a reliable global energy supply.

For decades, HEROSE valves have proven themselves worldwide and ensure the safe operation of oil-immersed transformers. Whether drain valves, three-way valves or gate valves: HEROSE corrosion and temperature-resistant products function without problems, even at -50°C.
At cryogenic temperatures, experience is our greatest asset.

Industrial gases are liquefied at cryogenic temperatures and transported in special trailer from the air separation plant to the customer. Thanks to lightweight HEROSE valves, the payload can be increased.

Depending on the quantity, cryogenic air gases are stored in fixed storage tanks with capacities from 5,000 to 50,000 litres. Compact HEROSE filling modules ensure safe and convenient handling during the filling process.
For the industrial production of high purity nitrogen, oxygen, argon and other air gases, the individual air components are separated using a thermal process in air separation plants. The necessary repair and maintenance work in the Cold Box is greatly simplified by the use of HEROSE Top Entry valves.
Liquefied natural gas is the future. We are ready.

Special road trailer are used to transport LNG from the liquid gas storage facility to the users’ satellite stations. Because of frequent filling, transportation and unloading, they are subjected to extreme stresses. HEROSE supplies the valves for liquefied natural gas, approved for LNG according to DIN EN 12567.

Cryogenic liquefied natural gas is stored in small-scale tank storage facilities with capacities from 10,000 to 100,000 m³. HEROSE valves have proved themselves in many tank storage filling and removal lines, including for safety-relevant valves, which are fire safe approved according to EN ISO 10497.
Valves for cryogenic liquefied natural gas

Natural gas is liquefied at a temperature of -161°C and enables this versatile fuel to be supplied without depending on pipelines. We use our many years of experience in the field of industrial air gases to provided valves which are optimised for small-scale LNG applications. If required, Fire Safe according to EN ISO 10497.

The use of LNG as fuel for ships has considerable environmental advantages – lower emissions of carbon dioxide, sulphur dioxide and nitrogen oxides. We offer a wide range of valves for marine installations with extreme demands with regard to fire safety. In addition, we have developed complete solutions for the associated infrastructure for storage and transportation of LNG.

To supply customers with natural gas in various aggregate states according to their requirements, increasing numbers of decentralised liquefaction and re-gasification units are being constructed. HEROSE supplies a wide range of valves to cater for the various process requirements.
Come to us for ultimate quality. With excellent value for money.
Safety valves and changeover valves
HEROSE safety valves are certified according to global standards, including CE and ASME. They can therefore be used throughout the world, regardless of where the customer later installs the equipment. Combination with changeover valves also provides the operator with the ability to service the safety valves during operation.

Sizes: DN6 to DN50
Pressures: 0.2 bar (3 psi) to 250 bar (3626 psi)
Temperatures: -270°C to +400°C
Connections: Threads, flanges
Materials: Stainless steel, flanges, bronze

Globe valves
HEROSE globe valves are available with a wide range of connections and material combinations. They can be equipped with additional functions, such as bellows seals for increased tightness requirements, or with a non-return function. With this combination, use of a separate valve can be eliminated.

Sizes: DN10 to DN200
Pressures: up to 50 bar (725 psi)
Temperatures: -255°C to +120°C
Connections: Butt weld, socket weld, welded stubs, threads, flanges
Materials: Stainless steel, bronze

Actuated valves
If required, HEROSE pneumatically actuated globe valves can be equipped with an additional hand wheel, with which the valve can be opened or closed manually in case of loss of pressure. Optional seawater-resistant materials are available, which are ideally suitable for offshore use.

Sizes: DN10 to DN200
Pressures: up to 50 bar (725 psi)
Temperatures: -196°C to +120°C
Connections: Butt weld, socket weld, threads, flanges
Materials: Stainless steel, bronze

Fill cluster
A combination of individual HEROSE valves with different functions will be pre-assembled at the factory to form a system. This reduces the joining and welding work on site and saves time and costs for installation on vacuum insulated vessels.

Sizes: DN25 and DN40
Pressures: up to 50 bar (725 psi)
Temperatures: -196°C to +120°C
Connections: Butt weld, socket weld, welded stubs, threads, flanges
Materials: Stainless steel, bronze
No compromises during assembly:
Strainer and check valves
Filtration of the medium ensures compliance with the specified level of purity for downstream processes. For this various screens and filters with different mesh sizes are available. Check valves allow fluids or gases to flow through it in only one direction and prevent backflow of the medium.

Sizes: DN10 to DN200
Pressures: up to 50 bar (725 psi)
Temperatures: -196°C to +120°C
Connections: Butt weld, socket weld, welded stubs, threads, flanges
Materials: Stainless steel, bronze

Gate valves
With HEROSE gate valves, the flow rate is three to five times higher than with globe valves of comparable size. This speeds up the filling of tanks and trailers and saves valuable time for the delivery of cryogenic liquefied gases.

Sizes: DN25 to DN100
Pressures: up to 50 bar (725 psi)
Temperatures: -196°C to +120°C
Connections: Butt weld, socket weld
Material: Stainless steel

Ball valves
HEROSE cryogenic ball valves have a larger flow diameter than comparable shut-off valves. They provide faster opening and closing times and are suitable for tank applications, as well as for cryogenic pumps, pipelines or low pressure trailers.

Sizes: DN8 to DN150
Pressures: up to 50 bar (725 psi)
Temperatures: -196°C to +120°C
Connections: Butt weld, socket weld, threads, flanges
Material: Stainless steel

CombipressureRegulators
HEROSE CombipressureRegulators combine three functions: pressure build-up, economiser and safety function. Fewer valves and piping are required, which also saves costs. With combined pressure regulators, cryogenic liquefied technical gases such as nitrogen, oxygen or argon can be economically stored at constant pressure during operation.

Sizes: DN20
Flow rate (Kvs): 1.2 m³/h, 3.2 m³/h
Pressures: up to 38 bar (551 psi)
Temperatures: -196°C to +200°C
Connection: Threaded
Material: Stainless steel
Reliability is our motto.
Quality is the basis and trust is the result.

Fixed or mobile compressed air supplies are provided by compressors. HEROSE safety valves secure systems up to 250 bar and offer our customers a solution for a wide variety of applications.

- Industrial plants
- Municipal vehicles
- Brake systems

Seawater desalination plants are used, among other places, on cruise ships, to produce drinking and operating water. HEROSE safety valves are produced in seawater-resistant bronze and can therefore be used for a wide variety of applications.

- Waste water treatment
- Seawater desalination plants
- Fire extinguisher systems
Liquids can be separated by the use of heat in distillation processes. An important criterion is the surface finish of the materials which are used. Depending on the application, HEROSE uses stainless steel springs and the option of valves with nickel plating.

- Special sealing materials
- Distillation plants
- Sterilisers/fermenters
- Autoclaves

In Europe, silo trailers for the transportation of powdery and granular goods are highly successful. One of the reasons for this success is the HEROSE safety valve for securing the pneumatic discharge. Thanks to its robustness, the valve also operates perfectly under extreme conditions of use.

- Food industry
- Animal feeds
- Wood
- Cement
Our valves are second to none for safety. Consistent quality simply cannot be replaced.
Safety valves angle type
HEROSE supplies angle type safety valves for up to 250 bar, which are approved for vapours, gases and liquids. The valve can therefore be used for various aggregate states. In addition, it is also available as a version with a flange, NPT or Tri-Clamp connection for the inlet and outlet and also with a soft sealed disc.

Sizes: DN10 to DN50
Pressures: up to 250 bar (3626 psi)
Temperatures: -270°C to +400°C
Connections: Thread, flange, Tri-Clamp
Materials: Stainless steel, bronze, brass

Free discharge safety valves
These valves have proved themselves thousands of times in daily use and their carefully matched design and materials offer optimum value for money. They are ideal for applications in which compressed air may be released into the atmosphere without problems.

Sizes: DN8 to DN50
Pressures: up to 43 bar (624 psi)
Temperatures: -40°C to +200°C
Connection: Thread
Materials: Stainless steel, brass

Safety valves for liquid, granular and powdery goods
All components of the valve are protected against dirt and designed for a long service life. Because of this, these HEROSE safety valves are ideally suited for silo operations, where granular or powdered materials need to be reliably transported.

Sizes: DN25 to DN50
Pressures: up to 6 bar (87 psi)
Temperatures: -40°C to +200°C
Connection: Thread
Materials: Stainless steel, brass

DIN EN standard valves
HEROSE has a wide range of standard valves in its range, which offer especially good value for money. These include shut-off valves, gate valves, pressure reducers and dirt traps, as well as non-return valves and flaps for various industrial applications.

Sizes: DN8 to DN50
Pressures: up to 40 bar (580 psi)
Temperatures: -40°C to +200°C
Connection: Thread
Materials: Stainless steel, brass
As the demand for energy increases, so do the requirements. Transformer valves for extreme conditions.

In the local grid, distribution transformers produce the normal voltage of 400/230 Volt.

Transformers on supply platforms are exposed to extreme climatic conditions and salt-laden sea air.
In future, offshore wind farms will provide one sixth of the electricity which is needed in Germany.

Technical availability is our primary objective, so that all wind farms can utilise the wind which is available offshore as planned. At the same time, sophisticated onshore projects demand our attention for the further development of existing solutions.
Reliability is a hot topic. Quality begins at 1100° Celsius.
**Flanged gate valves**
HEROSE flanged gate valves are used to regulate the oil circulation in transformers. There is a wide variety of versions, designed for use at extreme temperatures down to -50°C, as well as for offshore applications. The gate valves are available with an optional locking device.

Sizes: DN25 to DN250  
Pressures: up to 6 bar (87 psi)  
Temperatures: -50°C to +120°C  
Connection: Flange (DIN EN, ANSI)  
Materials: Brass, bronze, seawater resistant bronze

**Three-way plug cocks**
HEROSE three-way valves provide a defined oil flow and therefore the controlled dissipation of heat within oil-cooled transformers. The defined setting of the flow direction enables the isolation of contaminated oil in transformers with a multiple chamber system and continued operation of the transformer at a lower power. This considerably reduces downtimes.

Sizes: DN25, DN50, DN80  
Pressures: up to 5 bar (73 psi)  
Temperatures: -40°C to +115°C  
Connection: Flange (DIN EN)  
Material: Bronze

**Outlet valves**
HEROSE outlet valves made from bronze and seawater-resistant bronze are used on oil-cooled transformers for the safe removal of oil samples for quality checks. To prevent unauthorised operation of the valves, they are optionally available with a locking device and a position indicator.

Sizes: DN15, DN32  
Pressures: up to 6 bar (87 psi)  
Temperatures: -50°C to +115°C  
Connection: Flange (DIN EN, ANSI)  
Materials: Stainless steel, brass, bronze, seawater resistant bronze

**Ball valves**
Due to the use of high quality materials, HEROSE ball valves are ideally suitable for handling neutral gases and liquids, mineral oil products and alkalis, as well as corrosive liquids and gases. As with all valves, a locking device is available as an option.

Sizes: DN15 to DN150  
Pressures: up to 40 bar (580 psi)  
Temperatures: -50°C to +230°C  
Connection: Flange (DIN EN, ANSI)  
Materials: Stainless steel, cast steel
Continuous quality control is second nature for us. And very reassuring for you.

A quality promise

Material testing

With a contour measuring device, even dimensions which are difficult to access can be checked.

Leak testing

100% leak tests of mechanically machined body at the nominal pressure.
We offer our customers reliable products, a high level of safety and a sound business. These values run through the entire production process – from purchasing up to international support. Positive feedback from our customers shows that we have the right approach. The name HEROSE is a promise of quality, which motivates us to persevere with our efforts and challenges to become even better.

The company, the various teams and each individual employee all live according to this vision. For us, it is a matter of course to regularly look to the future and adopt new ideas to make work processes and production methods even more efficient and economical. Sometimes it is not enough just to be good.

Identification

Free of oil and grease

Each pressurised component is labelled and is therefore traceable.

Cleanliness for use with oxygen is guaranteed by automatic processes.
Foresight and durability, a cosmopolitan and a down-to-earth attitude. These are not mutually exclusive.

The company headquarters in Bad Oldesloe – progressive thinking on 11,000 square metres.

In regular workshops, we train our customers and communicate our theoretical and practical knowledge.
We are curious about our future international markets and at the same time keep both feet on the ground in our region. This very special combination has made us into what we are today: a successful company which has been managed by its owners for five generations, with its own development and designs, which focusses on innovative products.

We are now the leaders for reliable solutions for cryogenic valves. We are also a leading European producer of safety valves. With a wide range of products, great depth of production and lean processes in all areas of the company, we are in a good position for the future. A global network of agencies and partners ensures close contact with our customers in more than eighty countries, with whom we exchange expert information in an atmosphere of trust and work on pioneering solutions together. **What can we do for you – please challenge us!**

Our products and know-how are represented at important exhibitions and conferences throughout the world.

HEROSE supplies to more than 80 countries and has subsidiaries and agencies e.g. in China, the United Kingdom, India and Spain.
German Headquarters

HEROSE GMBH
ARMATUREN UND METALLE
Elly-Heuss-Knapp-Strasse 12
23843 Bad Oldesloe
Phone: +49 4531 509-0
Fax: +49 4531 509-120
info@herose.com

International subsidiaries

Great Britain
HEROSE Limited
Finningley/Doncaster
Mr. Keith Stewart
Phone: +44 1302 773 114
Fax: +44 1302 773 333
keith.stewart@herose.co.uk
www.herose.co.uk

Spain
HEROSE Ibérica S.L.
Barcelona
Mr. Javier Gorrit
Phone: +34 662 625-614
Fax: +34 937 894-759
ofertas@herose.es
www.herose.es

P.R. China
HEROSE Trading Co., Ltd.
Dalian
Mr. Guoyong Zhou
Phone: +86 411 6616 4388
Fax: +86 411 6616 4399
info@herose.cn
www.herose.cn

India
HEROSE Indien
Gurgaon
Mr. Sankalp Tiwari
Phone: +91 124 404 8273-77
Mobile: +91 98 1839 0222
tiwari.herose@igep.org
www.herose.com

All rights reserved, subject to errata and printing errors