Niezgodka GmbH

Industry - Valves

Niezgodka GmbH

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Niezgodka GmbH was founded in 1967 in Hamburg and has remained a familyfirm to the present day.

Our special field is the development, production and sales of stainless steel valves for the widest variety of industrial areas.

An implemented quality management system guarantees the state of the art taking into account the standards for valves.

We rely on the latest technologies, high quality materials and the efficient handling of resources. The result of that is the high quality of our products.

Our actions are orientated to the requirements of our customers, who we care for with technical know-how and an enormous degree of flexibility.

Our strengths are your advantages!

You receive competent support from our company, from problem solving, allowing for widely varying specifications, to the selection of products and service.

Our range of products

- Safety valves
- Pressure reducing valves
- Initial pressure controllers
- Vacuum and pressure relief valves
- Pressure relief valves
- Custom valves

Our customers come from the following fields

- Food industry
- Pharmacy industry
- Industrial mechanical engineering
- Natural gas and oil production
- Maritime engineering
- Transport container construction

Industrial mechanical engineering


Source: CHETRA GmbH

We offer individual and made-to-measure solutions for the fields of industrial mechanical engineering, natural gas and oil production, maritime engineering and transport containers.

We supply stainless steel, steel and brass valves for all plant construction sectors.

All of the materials that we use are subjected to the most stringent quality checks and conform to the common standards and requirements.

Our range includes all types of connections common to the industry, a large number of materials and a selection of seals according to customer-specific criteria.

We also offer:

- In-house production of special versions according to customer request
- Processing possibilities for all desired surface qualities
- Pneumatic lifting
- Pneumatic drives
- Valves with sensors

Natural gas and oil production


Source: Thyssen-Krupp

Maritime engineering / transport container construction


Source: Meyerwerft

Safety and pressure relief valves

Valves for safeguarding against impermissible overpressure or for discharging excess volumetric or mass flows from pressure vessels and pipelines in the fields of industrial mechanical engineering, natural gas and oil production, maritime engineering and transport containers.

Materials:	Stainless steel, steel, brass and custom materials
Process connections:	Flange and thread
Nominal widths:	DN 8 - DN 100
Control:	Spring-loaded

Pressure reducing valves and initial pressure controllers

Valves for the regulation of constant reduced or initial pressures in a plant.

- Materials: Stainless steel and custom materials
- Process connections: Flange and thread
- Nominal widths: DN 10 - DN 100
- Control: Piston / membrane-controlled

Vacuum relief valves / vacuum and pressure relief valves

Valves for safeguarding against excess vacuums and pressures in pressure vessels and pipelines.

- Materials: Stainless steel, steel, brass and custom materials
- Process connections: Flange and thread
- Nominal widths: DN 15 - DN 50
- Control: Spring-loaded

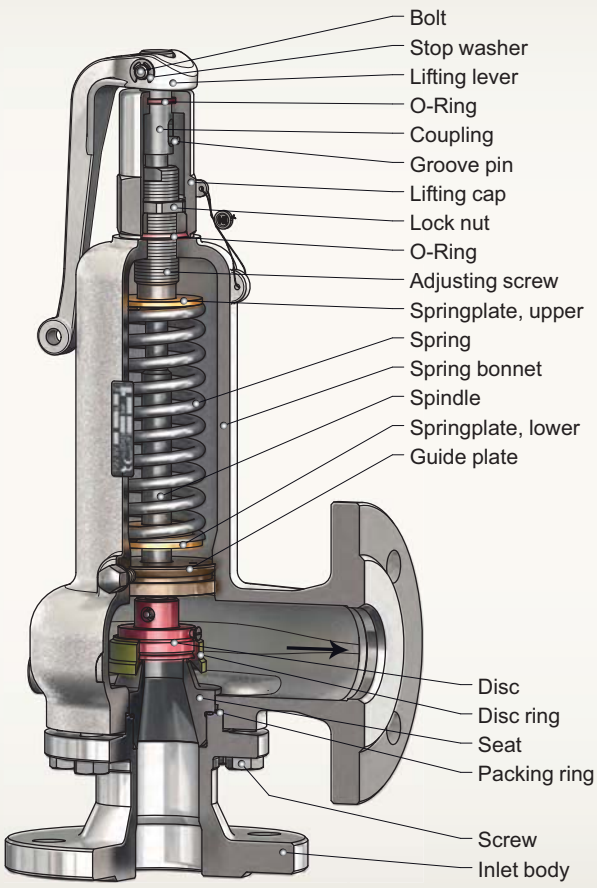
Additional designs

Valves, e.g. free-blowing or in straight form for safeguarding against impermissible overpressure or for discharging excess volumetric or mass flows from pressure vessels and pipelines.

- Materials: Stainless steel, steel and custom materials
- Process connections: Flange and thread
- Nominal widths: DN 15 - DN 350
- Control: Spring-loaded

Source: OFRU Recycling GmbH & Co. KG

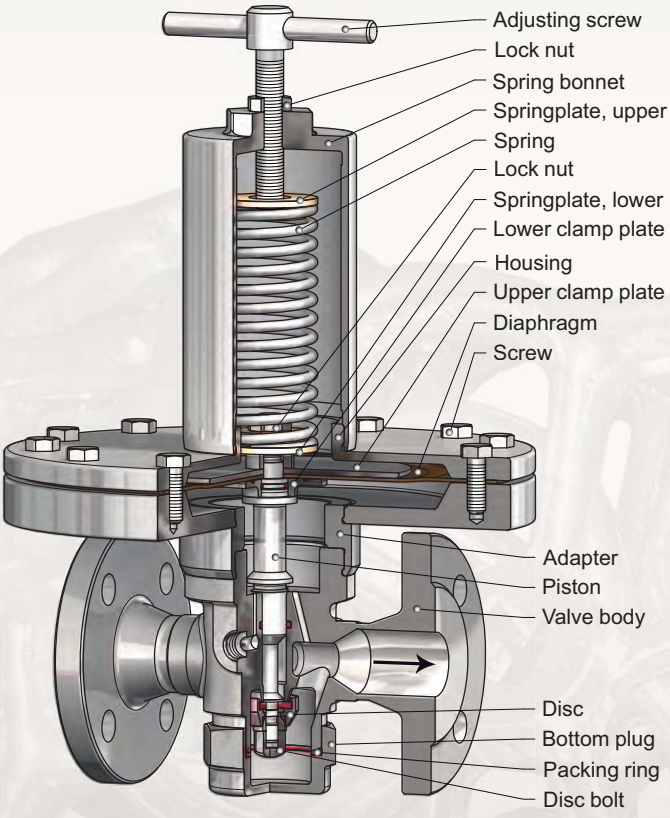
Safety valves



Spring-loaded safety valves can be used as fittings with a safety function in pipelines and on pressure vessels.

If the pressure before the safety valve reaches the set opening pressure, the valve reacts. Depending on the pressure increase, a small amount of the medium will be discharged initially. If the pressure increases further, the valve opens and discharges more medium. Different pressure increase curves are permissible, depending on the medium (compressible or incompressible) and the type of valve (normal or full-stroke safety valve). If the pressure before the valve sinks below the opening pressure, the valve begins to close. Different pressure decrease curves (closing pressures) are permissible, depending on the medium.

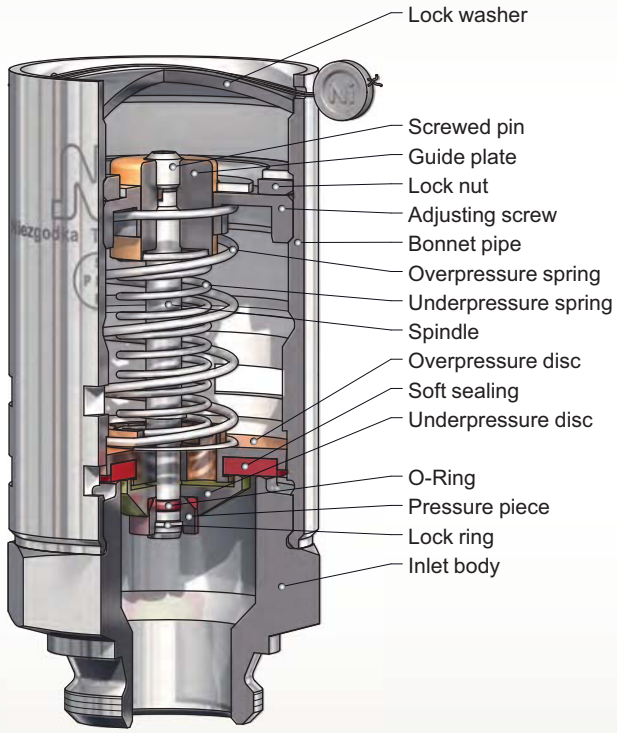
Pressure reducing valves



Pressure reducing valves are independent of the primary pressure and, depending on the pressure range, are either piston or membrane controlled, spring-loaded proportional regulators. They are used to maintain the reduced pressure at a constant, adjustable set value.

If the pipeline is depressurised and the spring is pre-tensioned, the piston plate (membrane) is pushed into the open position with the piston and the disc. This also occurs if the reduced pressure sinks below the set value determined by the spring force. The medium flows between the seat and the disc and the pressure is thereby throttled. The reduced pressure below the piston plate (membrane) is compared to the spring force above the piston plate (membrane). When the set value on the reduced pressure side is reached, the forces are balanced. If the reduced pressure increases further, this balance no longer exists and the valve can close again.

Vacuum and pressure relief valves



Spring-loaded vacuum relief valves are used as vacuum limiting valves in pipelines or pressure vessels. If the vacuum in the pipeline or pressure vessel reaches the force set by a spring, the valve opens and air can flow into the pipeline or pressure vessel through the intake slit in the valve body. The valve closes once the set vacuum pressure is reached again.

Spring-loaded vacuum and pressure relief valves are used (simultaneously) as vacuum-limiting or pressure-limiting valves in pipelines or pressure vessels. These valves have two pressure settings. If the vacuum in the pipeline or pressure vessel reaches the force set by a spring, the vacuum disc opens and air can flow into the pipeline or the pressure vessel. If the positive pressure reaches the force set by a further spring, the pressure relief disc opens and medium can be discharged. The valve closes again once a sufficient quantity of medium has been supplied or discharged.

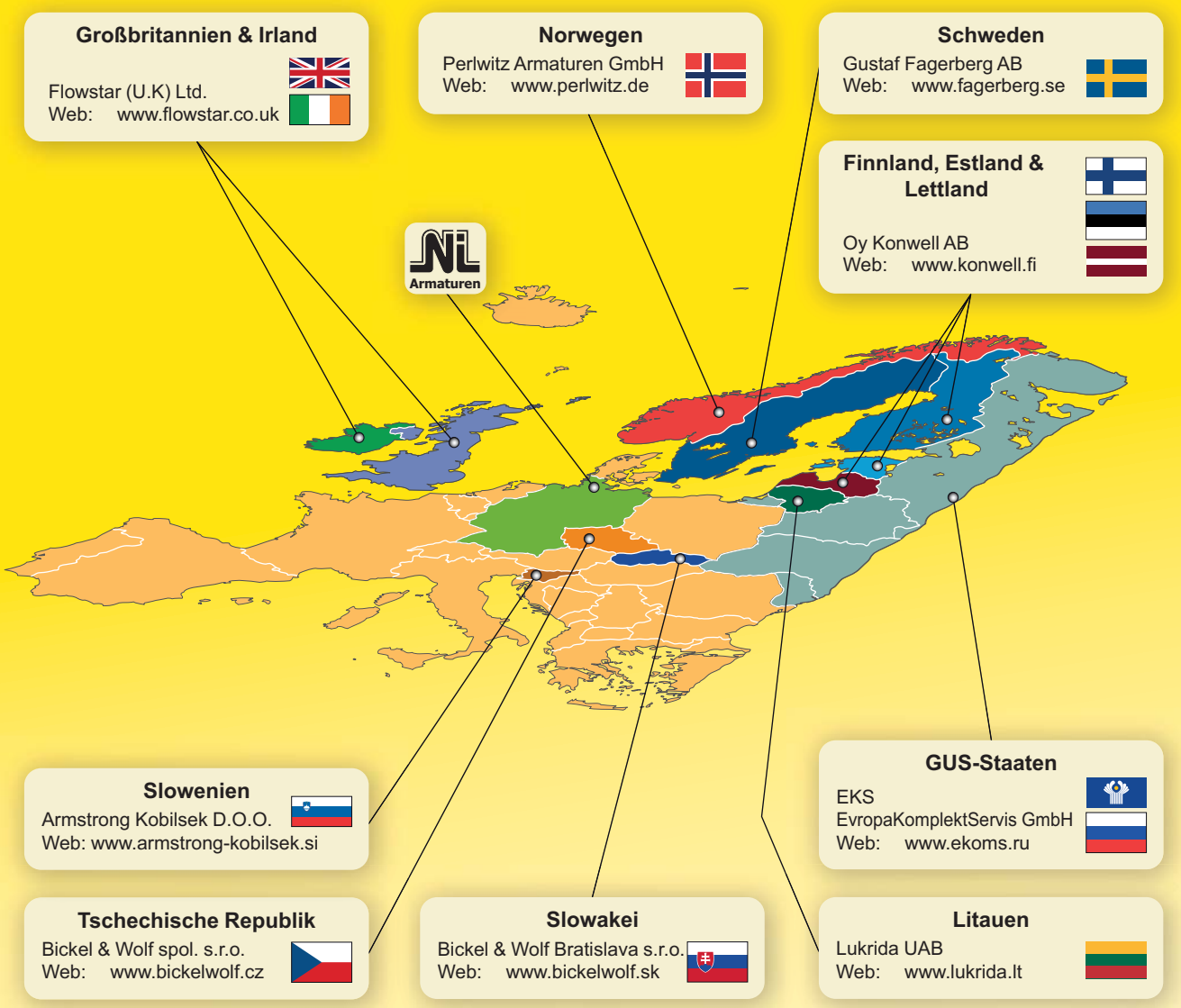
Test rigs

The function and performance of all types of valves are tested on the air and water test rig.

These tests are not just carried out during the design and development phases, but in fact over the entire lifetime of the valve type.

Depending on the type of valve and the customer's wishes, type testing is carried out by supervisory organisations and individual acceptance testing is also carried out on the test rigs.

Representatives



Geographical coordinates 53° 37´ 29,76” N (northern latitude)
10° 09` 33,67” E (eastern longitude)

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