KLINGER Schöneberg

MOBILITY

Reliable and proven industrial valves for energy and hydrogen economy.

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» **SOLAR POWER PLANTS**
Green hydrogen thanks to solar energy.

» **ELECTROLYSIS**
Power to Valve for green hydrogen.

» **REFORMATION**
Valves for gray and blue hydrogen.

» **HYDROGEN INFRASTRUCTURE**
Proven valves for compression, pipeline transport and storage.

» **CHEMISTRY**
Chemistry is in our DNA.

» **PETROCHEMISTRY**
Safe shut-off of liquid and gaseous media, high pressure and temperature.

» **VARIOUS INDUSTRIES**
Made of steel for green steel.

» **HEAT & POWER GENERATION**
Valves for sector coupling.

» **MOBILITY**
An important application area for hydrogen.

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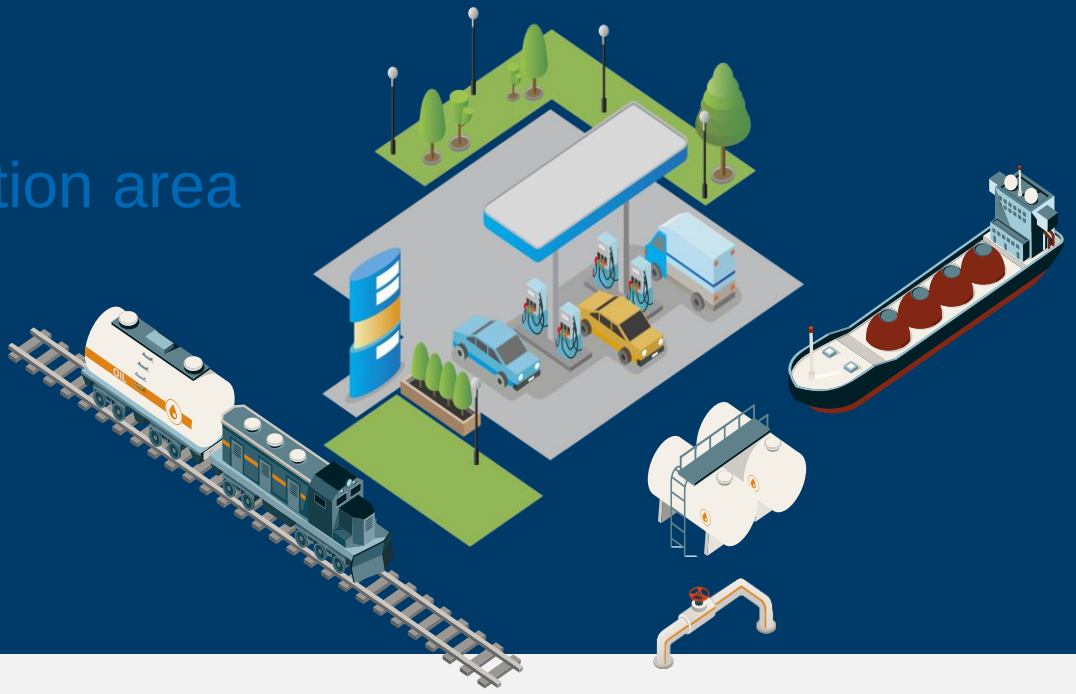
trusted. worldwide.

Mobility

Important application area for hydrogen.



Process description

For electric vehicles with fuel cell technology, hydrogen is used as an energy carrier in many applications: Forklifts, cars, buses, trucks or even rail vehicles.

To ensure that refueling can be carried out safely and quickly, precise pressure equalization is necessary. The same applies to the hydrogen filling of tank containers in filling stations. Pneumatically driven valves ensure optimum distribution of the hydrogen in the container tanks.

Various valves are required in the filling station for control, automation and fulfillment of safety functions.

Typically, manual valves for maintenance and pneumatic shut-off valves in explosion-proof design are used.

Depending on the refueling and acceptance concept of the plants, the valves must withstand pressures between 50 and 1,000 bar.

In addition, the valves for fast refueling procedures must withstand temperatures down to -40°C.

Requirements

- High pressure and low temperature requirements.
- Refueling down to -40°C.
- Storage and refueling up to 1,000 bar.

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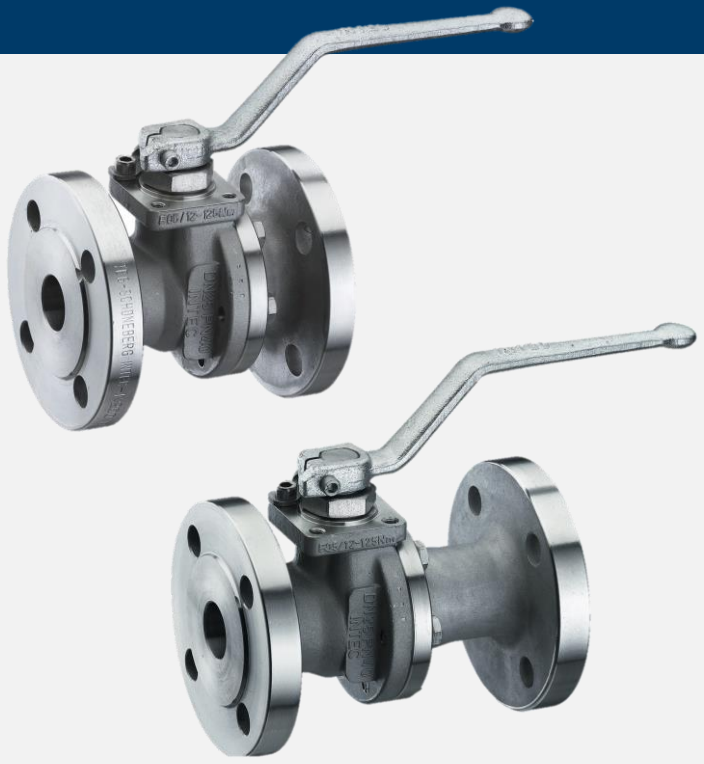
Compatibility with hydrogen is necessary for all valve components that come into contact with the medium and is mastered by KLINGER Schöneberg through the appropriate selection of materials.

INTEC K200
Two-piece flanged ball valves



Proven design with perfect technical functionality.
The ball valves are available in various material combinations and with different features.

INTEC K200
floating ball, soft seated

INTEC K220
floating ball, soft seated,
single side spring loaded seat ring

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INTEC K811
Three-piece high-pressure ball valves

High precision bearings and both sides spring loaded seat ring elements are responsible for safety handling in all applications of the high-pressure ranges.

INTEC K811
trunnion mounted ball, metal seated, both sides spring loaded seat rings

HAPPY TO PROVIDE YOU WITH FURTHER INFORMATION.

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