

# HEAT & POWER GENERATION

Reliable and proven industrial valves for energy and hydrogen economy.





- » **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.



# Heat & Power Generation

Valves for sector coupling.



## Process description

An essential prerequisite for sector coupling is a synthetic energy carrier that can be made available from electricity, can be used in other sectors, and can also be stored easily and flexibly. Hydrogen meets these requirements.



At present, hydrogen produced in the chemical industry that cannot be used for other purposes is used to generate heat. The latest generations of fuel cell systems, which are operated on the basis of pure hydrogen, can be used in single-family homes for heating as well as for electricity generation.

Furthermore, hydrogen offers the possibility of storing renewable energy, for example in the existing natural gas grid. Subsequently, it can be converted back into electricity using the usual methods for generating electricity from natural gas (gas turbines, combined cycle and CHP power plants). This could be used in the future, especially in times of increased electricity demand and low renewable electricity production.

H<sub>2</sub>





## Requirements

- » Gas pipelines with a nominal pressure of 80 bar and a nominal diameter of up to 1,000 mm.

Solutions



KLINGER Schöneberg  
offers valve solutions from the  
feed to pipeline transport and  
processing at the consumer.



# 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





**HAPPY TO PROVIDE  
YOU WITH FURTHER  
INFORMATION.**



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