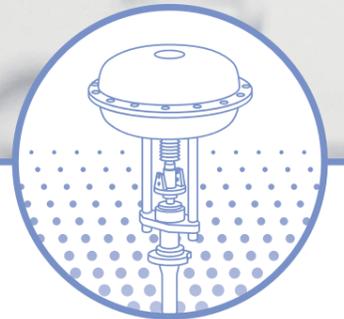




H₂ AS ENERGY CARRIER



For more information visit
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WEKA FOR A SAFE
AND RELIABLE ENERGY
TRANSITION

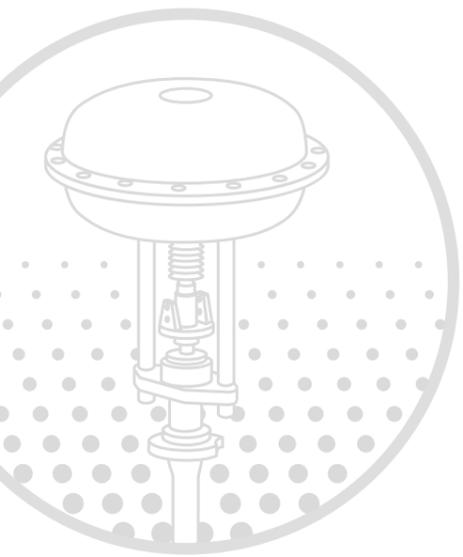
**VALVES AND CRYOGENIC
COMPONENTS**

HYDROGEN, THE ENERGY OF THE FUTURE!

CHANGE IN THE ENERGY INDUSTRY

The switch to eco-friendly technologies is a urgent global need that is evident in all industries and also in everyday life. This also applies to hydrogen. We are currently witnessing a positive shift from traditional hydrogens to new emission-free green fuels.

With decades of experience in industrial gas and hydrogen applications, WEKA AG is well equipped to help you make the leap to hydrogen.



OUR MISSION

Switzerland – the impressive beauty of nature. For us Swiss, it's not surprising that the environment also plays an essential role in our daily work. However, a look out of the window shows us that this has become an urgent need. Since the turn of the millenium, our glaciers have lost around 17 percent of their volume. The consequences of climate change are not only rapid and severe, they are also clearly visible in our country.

Hydrogen is thus not only another growth market for us, for us the energy transition is personal. That's why we at WEKA are doing everything we can to drive the energy of the future.

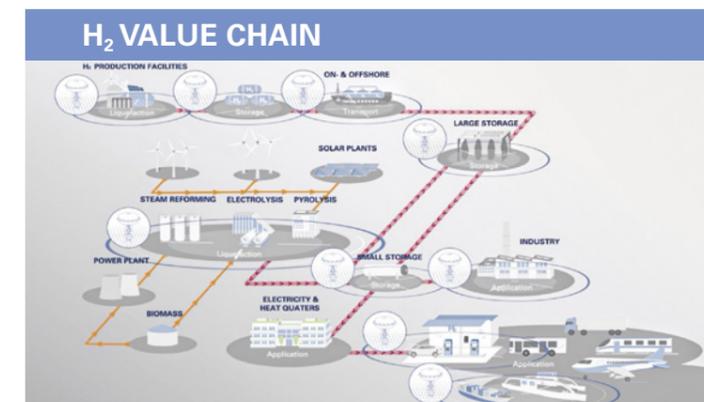
WHAT WEKA STANDS FOR

- + proven supplier for cryogenic equipment since the 1970s
- + swiss quality
- + sustainability, ECOVADIS rating gold
- + QM system based on ISO9001
- + highest reliability and lowest maintenance
- + highest product safety in operation
- + flexibility to provide solutions outside standard setups
- + solutions for harsh environmental and service conditions

OUR EXPERTISE LIES IN THE DEVELOPMENT OF CUSTOMIZED COMPONENTS. WE DESIGN, PROTOTYPE AND MANUFACTURE VALVES AND CRYOGENIC COMPONENTS WITH SWISS PRECISION.

WEKA IN THE H₂ VALUE CHAIN

Regardless of which part of the H₂ value chain you are in, the WEKA product range offers a solution that is ideally suited to your application. We supply reliable components for cold and hot applications and various pressure levels up to 1000 bar. Our concept offers a high degree of flexibility in producing a valve tailored to the requirements of your hydrogen application.



TYPICAL APPLICATIONS

- + GH₂ liquefaction
- + LH₂ storage and withdrawal
- + LH₂ refueling
- + LH₂ transport by trailer or ship
- + GH₂ and LH₂ refueling station concepts
- + Fuel supply in space
- + Power-to-gas
- + Fuel cell and gas fuel systems for LH₂ for vehicles and ships

G = gaseous | L = liquid

H₂ – RENEWABLE – ENERGY





INFRASTRUCTURE

HYDROGEN INFRASTRUCTURE APPLICATIONS

LIQUEFACTION

LH₂ /GH₂ control and shut-off valves, check valves and ejectors for liquefaction plants.

STORAGE AND DISTRIBUTION

LH₂ /GH₂ control and shut-off valves, check valves and couplings for gas storage and distribution systems.

LH₂ TRANSPORT

Shut-off valves for mobile tank trailers for H₂-transportation

FILLING STATIONS

High and low pressure control and shut-off valves for H₂ fuel station gas storage.

IDEAL FOR

- LIQUEFACTION
- STORAGE
- TRANSPORTATION
- FILLING



BELLOW VALVE



HIGH PRESSURE VALVE



EJECTOR

HYDROGEN MARITIME APPLICATIONS

ONBOARD HYDROGEN GAS SUPPLY

LH₂ /GH₂ control and shut-off valves, check valves for onboard liquefaction and storage. Type approval for various classification societies.

IDEAL FOR
LIQUEFACTION
STORAGE
TRANSPORTATION



BELLOW VALVE

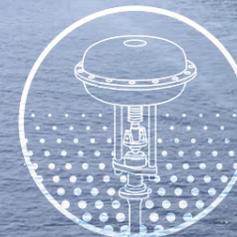


MULTILINE COUPLING



COLD CHECK VALVE

ON- AND OFFSHORE





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SPACE AND RESEARCH

HYDROGEN SPACE APPLICATIONS



HIGH PRESSURE VALVES



CUSTOMIZED CHECK VALVES



BELLOW VALVE

IDEAL FOR
 FUEL SUPPLY
 STORAGE
 DISTRIBUTION
 TEST BEDS

LIQUEFACTION
 LH₂ /GH₂ control and shut-off valves, check valves and ejectors for liquefaction plants.

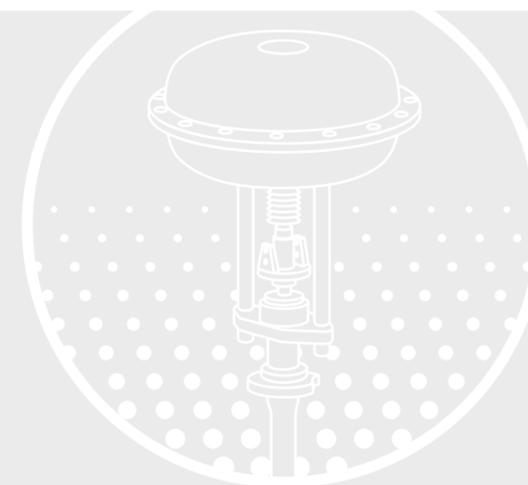
STORAGE AND DISTRIBUTION
 LH₂ /GH₂ control and shut-off valves, check valves and couplings for gas storage and distribution systems.

HANDLING H₂ WITH SWISS PRECISION

To ensure that large-scale plants around the world function safely and smoothly, our employees take care of every last detail, pedantically, meticulously – typically Swiss.

Thus, we develop and produce components that make the handling of hydrogen safe and reliable. Our products meet all applicable standards and offer the corresponding certificates:

- + IECEx approval
- + ATEX approval
- + SIL Certification
- + DNV, ClassNK, etc.



WEKA TECHNOLOGY AT A GLANCE



- WEKA – YOUR FIRST CHOICE FOR**
- + cryogenic valves and components for service temperatures down to 1.8 K (-271 °C)
 - + cryogenic control and shut-off valves, bellow sealed towards outer environment
 - + sizes up to DN250
 - + pressures up to PN 1000
 - + Johnston couplings, multi coaxial couplings, warm and cold check valves
 - + customer specific development according to requirements
 - + cryogenic valves and components with marketspecific certifications

WEKA SERVICE THAT SUITS YOU BEST

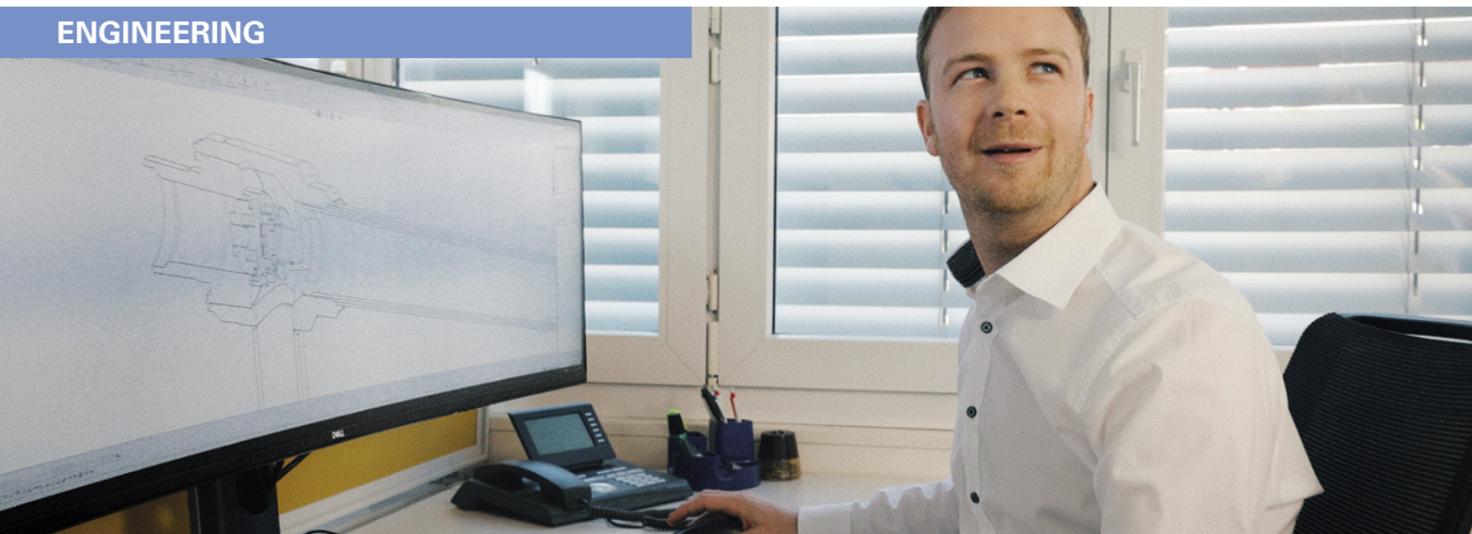
ENGINEERING QUALITY

WEKA's engineers and designers develop valves and components for cryogenics and level measurement technology that meet the highest requirements. For this purpose, we use comprehensive training as well as modern working tools and draw on years of experience with a high practical relevance.

In addition, we use the WEKA project management system, which optimally supports both smaller customer orders and complex developments.



ENGINEERING



CUSTOMIZED DEVELOPMENT

One of our strengths is to develop individual solutions for specific customer requirements should there be no suitable product in our standard portfolio. Our customers appreciate a close cooperation to achieve an optimum result for their needs.

THE 9 KEY PRINCIPLES FOR WEKA SERVICE

- + speed
- + know-how
- + efficiency
- + accuracy
- + flexibility
- + transparency
- + accessibility
- + personal responsibility
- + professionalism

« SCIENTISTS DREAM
ABOUT DOING
GREAT THINGS.
ENGINEERS DO THEM. »

SERVICE AND SUPPORT

Offering our customers all-round service is important to us. That is why our commitment goes far beyond the supply of our products. The know-how of our qualified engineers and technicians is available to our customers at all times.

SERVICES OFFERED

- + product training
- + remote support
- + service assignment
- + on-site support during installation
- + troubleshooting
- + and/or commissioning of our products



ON-SITE SERVICE

On request and by arrangement, we can be on site, in urgent cases even at short notice. Our many years of experience enable us to solve most problems on location without having to dismantle the components. This guarantees a faster resumption of operations and saves our clients valuable time and money.

For new customers, we are also happy to provide commissioning instruction. This is a valuable preventative measure, as the technology can become very complex, especially in the field of cryogenic applications.

If you also want to rely on the know-how of our employees, please contact us. We look forward to provide you with an individual service package.



APPLICATIONS

CONVEY, REGULATE, SHUT OFF, CONTROL, MEASURE, DISPLAY – **WEKA SOLUTIONS MAKE IT POSSIBLE.**

WITH STANDARD AND CUSTOMIZED SOLUTIONS, THE WEKA TECHNOLOGY IS AT HOME IN MANY APPLICATION AREAS.

LIQUIDS AND GASES

For more than 80 years, our range of cryogenic components and magnetic level indicators have been improving the operations of many important applications in a wide variety of industries.

If your business is one of them, we look forward to hearing from you soon.

CHEMICAL, OIL AND GAS



CHEMICALS AND PHARMACEUTICALS



OIL AND GAS INDUSTRY/PETROCHEMICALS



LIQUEFACTION OF GASES



GAS RECIRCULATION SYSTEMS

INDUSTRY AND TRADE



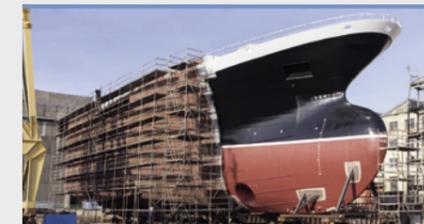
EXPLOSION-PROOF PLANTS



MECHANICAL AND PLANT ENGINEERING



WATER MANAGEMENT



SHIPBUILDING

ENERGY, SPACE AND RESEARCH



HYDROGEN INFRASTRUCTURE



SPACE INFRASTRUCTURE



PLASMA AND FUSION RESEARCH



POWER GENERATION