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**H<sub>2</sub>**

- » VJ Piping Systems
- » Cryogenic Valves
- » Loading Bays
- » Vaporizers
- » Relief Valves
- » Check Valves

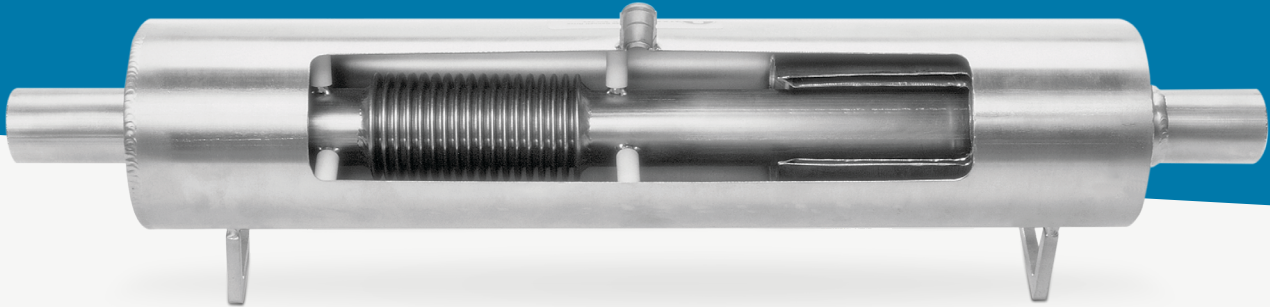
# HYDROGEN SOLUTIONS

A leading provider of precision engineered cryogenic solutions for the Hydrogen economy and other dynamic, high growth end markets.

# VACUUM JACKETED PIPING SYSTEMS

Explore our comprehensive line of cryogenic products — engineered for innovation and reliability in managing both gas and liquid forms of hydrogen, oxygen, methane, LNG, nitrogen, and more.

- Most cost effective way to transfer cryogenic fluids
- Standard Size 1/2" to 8"
- Large-bore VJP sizes up to 24"
- VJP sizes above 24" available upon request
- VJP Bayonets & Components
- VJ Filters
- Phase Separators
- Sub-coolers



## MODEL CV

- Available in manual and actuated versions
- Bellows sealed or non-bellows sealed
- Check valve and long stem fire control valve designs
- High purity designs
- Stainless Steel construction
- Extended stem for cryogenic services

## VAPORIZERS

- » Ambient
- » Forced Air Ambient
- » Electric

- Aluminum or Stainless Steel
- Manifold designs to suit pressure drop specifications



## BAYONET CONNECTIONS



- » Argon, Helium, Hydrogen, Nitrogen, Oxygen
- » Many bayonet styles
- » Special applications available

Discover a swift, reliable, and thermally efficient solution for your cryogenic piping needs with OPW Clean Energy Solutions' Bayonet Connections. Engineered for quick installation, these connections offer a seamless joint that's both leak-resistant and thermally efficient.

- Material suitable for cryogenic service
- Butt weld and Socket weld ends
- Thermally efficient for inner & outer weldment for VJP systems
- Complete line for vacuum jacketed pipes & filters



# CHECK VALVES

Check valves are essential flow-monitoring devices that ensure unidirectional fluid movement, preventing backflow or backwash in pipeline systems. Suitable for a range of fluid applications encompassing liquids, gases, condensate, and slurries, our check valves offer versatility in managing fluid direction.

## DESIGNED FOR USE IN:

- » Bulk Tanks
- » Trucks
- » Trailers
- » ISO - Containers
- » Piping Configurations

- Vacuum Jacketed or Non-Jacketed
- Bubble tight shut-off
- Low heat leak
- Easy maintenance
- Bolted bonnet
- Stainless Steel



## CV8 SERIES

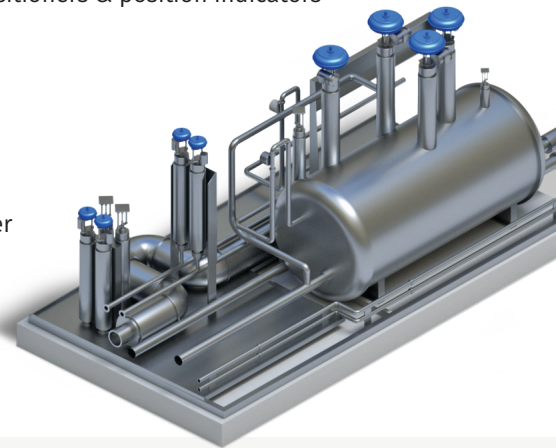
- Vacuum Jacketed or Non-Jacketed
- Bubble Tight Shut-Off
- Redundant Packing Seals
- Low Heat Leak Extension
- Self-Centering Plug
- Easy in-line maintenance
- Globe, "Y", or Right angle pattern
- Up to 12" in size
- Pneumatic and electric actuators
- Limit switches available
- Special extended length for helium service
- Higher rated working pressures
- Positioners & position indicators



## LOADING BAY

- » Thermally efficient
- » Stainless Steel VJP
- » Skid mounted, stationary, or mobile

- Output and size according to customer request
- Integrated contraction bellows
- Double containment (on request)
- High quality liquid hydrogen



## SUBCOOLER

- Overfill protection
- Increases the downstream quality of the liquid
- Controlled by BR-65
- Sizes DN 15, 25, 40, or 50

## RELIEF VALVES

- Bubble tight
- ASME certified
- Adjustable blowdown ring
- Brass, bronze, or stainless steel
- Cleaned for oxygen service per CGA G-4.1

## REGULATORS

- Suitable for a variety of gases in medical or industrial applications
- Balanced seat
- Oxygen compatible materials
- Brass body
- Perfect for bulk & microbulk tanks



OPW Clean Energy Solutions comprises of five main brands - ACME Cryogenics, RegO, CPC-Cryolab, Demaco, and SPS Cryogenics. Each brand offers distinct strengths and specialties, enhancing our extensive catalog and collaborating to deliver a broader range of products and solutions tailored to your project.



Providing comprehensive gas solutions for all of your gas and liquid handling needs, including LIN/LOX/LAR/LCO2/LNG/LH2/LHe. We specialize in unique solutions that can be developed without putting pressure on engineering resources.

RegO hydrogen products are designed, built, and 100% tested in the USA. Utilizing superior materials, developing innovative designs, and assembled by skilled manufacturing teams, our products are engineered to endure harsh cryogenic environments.



Leading the industry in manufacturing cryogenic components for liquid hydrogen and helium services and with tens of thousands of our valves and equipment in active hydrogen service globally, we're committed to providing highly engineered, custom, long-term solutions.

As a cryogenic supplier, we advise, design, develop, test, and install customer-specific vacuum insulated solutions of the highest quality. Backed by years of experience, we continuously deliver the most advanced infrastructures.



With over 40 years of industry experience, our team specializes in the design, manufacture, and supply of complete vacuum-insulated pipeline systems worldwide. Committed to safety and efficiency, you can rely on us to deliver within your budget and time frame.