



Hydrogen Solutions

Individual services and components from a single source



ENGINEERING YOUR SUCCESS.

Parker Hydrogen Solutions

Parker as experienced Partner in hydraulic installations also offers H₂-ready applications.

In response to the vital push toward sustainability, Parker has become a leader in the design and manufacture of products that utilize hydrogen. Hydrogen has no greenhouse gas emissions. It is an ideal alternative fuel for a diverse range of applications. However, when opting for an alternative fuel, it is imperative to use equipment tailored to the fuel's unique attributes.

HPCE also offers a wide range of products and services for these current technical challenges in order to support customers in overcoming technical challenges in the best possible way.



All products and services from one single source

Complete Piping Solutions offer wide custom-tailored solutions for H₂-Piping systems.

We combine many years of experience and know-how to supply the best technical and most cost-effective solution for your application.

With a wide product portfolio of fluid connectors and services, the CPS provides the following benefits:

- Consulting and engineering support
- Prefabrication and delivery of ready to install piping
- Product and installation trainings
- On-site containers for installation support
- Simplified procurement, reducing of project lead time

Tube fittings for H₂ applications

Parker H22-Connectors combine H₂ compatibility with the performance and reliability of SAE J1453 O-Ring Face Seal (O-Lok®) connections.

The hydrogen specific H2P-port design is the basis for an improved pressure resistance up to 875 bar. A special soft sealing compound ensures safety in terms of hydrogen permeation and explosive decompression. The Parflange orbital cold flow flaring process produces a perfect smoothened sealing surface on the tube end side.

- Zero clearance for fast and easy plumbing
- Process-safe torque wrench assembly
- Proved compound with sealing temperature capabilities -55°C to +85°C
- 25 times re-assemblies
- EC no. 79/2009 certified (for tube OD 6-12 mm, 1/4"-1/2")

Parker Purpose

“Enable Engineering Breakthroughs that Lead to a Better Tomorrow.”



Sensors and measurement devices

To measure pressure-dependent signals within H₂ applications within operation or during maintenance or repair, SensoControl offers a huge range of sensors, pressure switches and measurement devices:

- No mechanically moving parts
- Parts in contact with the media are completely made of stainless steel
- No internal seals
- High accuracy
- Wide pressure range



Non-welded flange system for more reliable connections

The Parker Parflange® F37 product range is a non-welded flange system. It is well known and used product in the marine and off shore applications.

The system has proven its reliability for decades and Parker directs a lot of approvals for various applications. As a result, more and more customers are switching from welded to the non welded Parflange® F37 system because of its convincing benefits.

- Market proved safe and reliable system, that can be used on H₂ applications
- Various sealing materials, especially for H₂ applications available
- Easy, fast and repeatable machine forming and assembly on-site
- Reduction of amount of needed connections and therefore significant cost savings



Wide range of pipes, clamps and ball valves for H₂ applications

A variety of complementary products are available for the optimal routing and control of H₂ systems.

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- Ball valves with different sealing concepts
- Pipes in various materials, surfaces and sizes
- Pipe clamps, including those made of special materials for flame protection

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