

Swagelok Pittsburgh | Tri-State Area





FACT:

The Hydrogen industry – development and deployment – is growing...but as the technology becomes more prominent, so does the misinformation around and about it.

Examining some myths and realities concerning this green, sustainable energy source:

THE CLAIM:

HYDROGEN GAS IS HAZARDOUS TO USE & STORE

THE FACTS:

- Hydrogen presents the same, if not fewer, hazards versus other fuels because it's nontoxic and has very low volatility.
- Hydrogen leaks do not contaminate the environment or threaten human or wildlife health.
- Hydrogen is 14 times lighter than air and 57 times lighter than gasoline vapor.
- <image>
- The air around Hydrogen flame is not as hot as that around a gas flame, resulting in a much lower risk of a secondary fire.
- Gasoline can be explosive at Oxygen concentrations between 1% and 3%; but those same concentrations would have to reach 18% or higher for Hydrogen to explode.

HYDROGEN IS

TOO EXPENSIVE

THE CLAIM:

THE FACTS:

- The price of green Hydrogen continues to fall – and trend will accelerate over the next decade.
- Major federal initiatives will spur Hydrogen development, further bringing down costs.
- Use of premium-quality processing components will



THE CLAIM:

HYDROGEN IS NOT ENVIRONMENTALLY FRIENDLY

THE FACTS:

- Hydrogen use in a fuel cell creates no smoke and waste
 outputting only energy and water.
- Most Hydrogen processes yield reduced CO₂ emissions versus comparable fuels.



 Carbon capture technology sequesters carbon so it can be stored for industrial purposes.

Swagelok Company, to date, has played a key role in helping to enable these Hydrogen applications:

Electrolyzers

- Micro Grids
- Fuel Cells
- Virtual Pipelines
- Refueling Stations
- FCEV Fuel Systems
- Dispensers/Priority Panels



Swagelok supports the overall **Clean Energy Industry by:**

IMPROVING SAFETY

• Our components and assemblies/

panels are engineered and tested to keep you safe during operation and maintenance.

- Our renowned safety training programs teach technicians how to properly install and inspect fittings; bend tubing of various diameters and materials.
- Our media leakage evaluations and hose advisories not only identify your problem areas, but offer trusted and proven recommendations to keep you safe, productive, and profitable.

MINIMIZING DOWNTIME, MAXIMIZING RELIABILITY



- Our leak-tight components are in stock locally.
- Our 99.9% shipping accuracy rate means you get what you need, when and where you need it.
- Your nearby Swagelok account reps – in the field or on the phone – can help you get optimum performance and efficiency from your equipment, no matter how challenging the job.
- Our Design & Build Shop can get you instrumentation panels or subassemblies that are easy-toinstall – and always 100% tested, inspected, and warrantied.

UNDERSTANDING REGULATORY COMPLIANCE, SUCH AS:



- Production Parts Approvals Processes
- International Material Data System Requirements
- Technical Cleanliness Requirements
- Manufacturing Emissions Compliance

For additional information on Swagelok and Hydrogen/Clean Energy, contact

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Our Promise:

In each and every customer engagement and interaction, no matter how challenging your application or operating conditions, we will deliver premier-quality Swagelok Fluid-System Product Solutions and value-added Strategic Services that will positively impact your Bottom Line.



WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER



Industry-Best Componentry



Unparalleled Application Knowledge



Masterful Custom Fabrication



Comprehensive Hose Advisories



Expert Technical Training



Proven Supply-Chain Support



Extensive Energy Evaluations



Genuine Swagelok Tool Rentals



WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:



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