

Swagelok Pittsburgh | Tri-State Area

Your Local Swagelok® Fluid-System Solutions Experts

Big Problem: Harvesting Small Molecules

Your Challenge

A major European energy company with massive plans to expand its Hydrogen production and storage capabilities faced a major impediment: How to contain and compress the element's extremely small molecules under pressure – in a leak-tight environment.

In addition, the firm wanted to demonstrate that Hydrogen could be “completely made out of renewable resources and stored for future use,” unlike other forms of green energy. But securely storing the fuel and preventing the hydrogen molecules from attacking and cracking hard steel containment materials presented a dual threat to the organization's overall global objective to grow its business around this plentiful, easy-to-extract, zero CO₂ emissions gas.



Your Solution

Swagelok FK medium/high-pressure, simple-to-install tube fittings, specifically designed for Hydrogen service with their high nickel content, worked in conjunction with our custom-made Needle and Ball Valves, to save substantial labor time and cost, delivering superior performance and efficiency in all critical applications. Plus, Swagelok's long-time, highly collaborative relationship with the account, including Field Engineering expertise and masterfully fabricated Grab Sampling Panels, enabled a true partnership approach from the project's initial notes/sketches to completion.



Your Healthier Bottom Line

The site now feels even more confidence moving forward with Swagelok as a trusted resource for competencies that couldn't be supplied from other vendors or from within. Our customer proclaimed a genuine sense of pride for the joint work toward helping the world transition to green energy and a more sustainable future.

Read the full story at: <https://www.swagelok.com/en/blog/everfuel-hydrogen-facility-interview>

For more information, contact:

Contact Gary Osman


Swagelok Field Engineer


gary.osman@swagelok.com • 412.761.3212



P: 412.761.3212 **W:** pittsburgh.swagelok.com

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