EKPO FUEL CELL TECHNOLOGIES

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Case study

WITT SV 805 SMART Safety Valve at EKPO Fuel Cell Technologies

Pressure protection and real-time monitoring for fuel cell test benches

EKPO Fuel Cell Technologies relies on WITT’s smart safety valve SV 805 SMART to ensure maximum overpressure protection in their fuel cell test benches. The valve prevents damage to critical components and, thanks to its smart functionality, provides real-time system status information. This significantly enhances the safety and efficiency of hydrogen-based fuel cell applications.

In their test facility, EKPO Fuel Cell Technologies uses the SV 805 SMART to safeguard test benches operating with hydrogen flow during the evaluation of various control valve configurations. The valve is set to open at 4 bar overpressure and reliably activates upon reaching this threshold. This ensures dependable protection of other system components.

The key advantage of the smart version of the SV 805 lies in its integrated sensors and visual status indicator: an LED light instantly signals whether the valve is open. At the same time, the outgoing digital signal can be used to trigger automatic countermeasures against rising pressure. This real-time monitoring and automation capability delivers a significant boost in control and safety—especially when working with gases like hydrogen.

Michael Günkel of EKPO Fuel Cell Technologies emphasizes: "The SV 805 SMART gives us real peace of mind when dealing with hydrogen. Being able to visually check the valve status and directly use the signal in our automation systems is of great value for the safety of our test benches."