Ingenieurbüro Andreas Holl

Conceptual Design - Engineering Services - Training - Consulting

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Hydrogen Training

Description

Hydrogen Basics

- Characteristics of hydrogen
- Gas purity

Fluid System Components in Hydrogen Plants

- Hydrogen generation and storage
- Hydrogen in fuel cells, hydrogen as a reducing agent in the chemical industry, steel production, desulfurization in the petrochemical industry, food industry, mobile sector, and many other applications

Tubing, Flanges, Threads, and Fittings in Hydrogen Plants

- Material requirements
- Corrosion Hydrogen embrittlement
- Cleaning requirements
- General requirements for tubes (steel stainless steel)
- Fittings, threads, and flanges
- Tube cutting and bending in hydrogen systems
- Dimensioning of tubes Permitted flow velocities

Valves and Pressure Regulators in Hydrogen Systems

- Requirements for valves and pressure regulators in hydrogen systems
- Material, lubricant, and cleaning requirements
- Design considerations for valves
- Sizing and calculation of valves and pressure regulators
- Hydrogen and Hydrogen/Natural Gas Mixtures

Other Fluid System Components:

- Check valves Deflagration safety devices
- Filters Pressure transducers Sensors

Inh.

Control valves - Coaxial valves - Butterfly valves - Safety valves - Solenoids

Technically Permanently Leak-Proof Fluid System Components

Andreas Holl