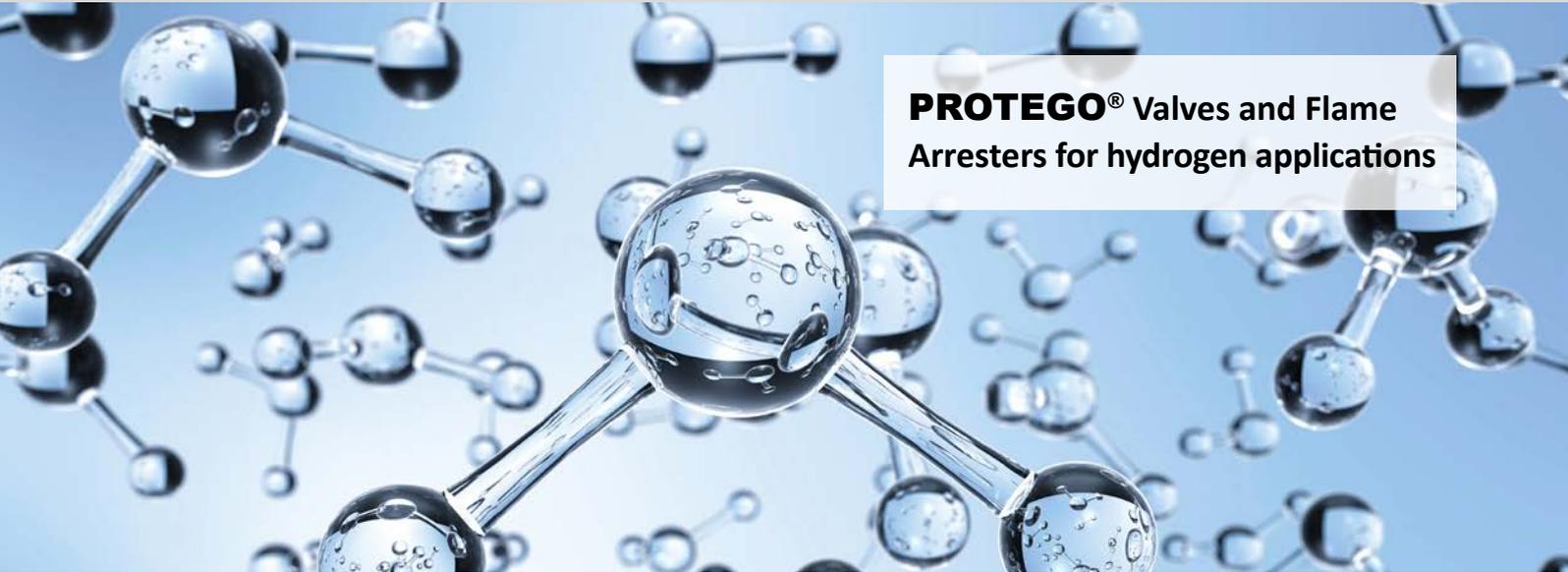


PROTEGO® Applications for Hydrogen

The energy source of the future

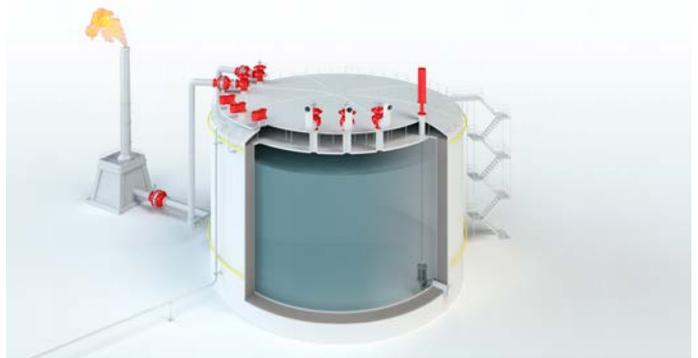


PROTEGO® Valves and Flame Arresters for hydrogen applications

HYDROGEN IS THE ENERGY SOURCE OF THE FUTURE.

It requires extremely high-quality process-relevant safety devices for production, processing and transport. Why?

- its broad explosive range of 4 -77 vol%
- its very low ignition energy
- its high diffusion rate
- its very narrow maximum experimental safe gap (explosion group IIC/N.E.C. Group B).



Example of an ammonia storage tank. Ammonia is an effective means to transport and store hydrogen.

PROTEGO®. FOR SAFETY AND ENVIRONMENT

PROTEGO® has developed a wide range of safety devices for hydrogen applications for decades. Our expert staff can help you select the appropriate device for your hydrogen application.

For more than 60 years, we have manufactured tank vents, flame arresters and tank equipment for:

- process plant engineering
- petrochemical, chemical, and pharmaceutical industries
- bio-energy industries



OUR RESEARCH AND DEVELOPMENT CENTER – THE LARGEST IN THE WORLD

PROTEGO® operates the world's largest research and development center for **product innovation, general research projects, and custom applications.**

Our team of engineers and specialists will help you select, develop and optimize equipment parts and devices to **ensure the safe storage and transport of hydrogen** in regards to

- overpressure and vacuum
- deflagrations
- detonations
- fire



for safety and environment

PROTEGO® Solutions for H2 Applications

Product Overview

DEFLAGRATION FLAME ARRESTERS; END-OF-LINE



PROTEGO® LH/AD



PROTEGO® LH/AD-T



PROTEGO® BE/AD

DETONATION FLAME ARRESTERS



PROTEGO® DAZ-S



PROTEGO® DAZ-SB, DAZ-UB



PROTEGO® DA-SB

DEFLAGRATION FLAME ARRESTERS; IN-LINE



PROTEGO® FA-G



PROTEGO® FA-CN



PROTEGO® FA-E

VALVES



PROTEGO® DE/S (High Velocity Pressure Relief Valve)



PROTEGO® SV/E-IIC (Vacuum Relief Valve)



PROTEGO® TS

HYDRAULIC FLAME ARRESTERS

PROTEGO® WORLD TEAM

PROTEGO® operates a global network of subsidiaries and representatives. The PROTEGO® team includes 11 distribution and after-sales services companies, as well as 120 representatives on all continents.

We provide first-class products and support:

- Solution-oriented
- High-quality to comply with applicable standards
- Consultative selling
- Environmentally conscious/sustainable
- Value
- Safety

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for safety and environment