

Focus on hydrogen and CCUS – ELAFLEX Group at Hydrogen Technology World Expo 2025

Hamburg, October 2025 – Hydrogen Technology World Expo is once again attracting the interest of international trade visitors this year. ELAFLEX Group expects numerous visitors in Hall B6 of the Messe Hamburg exhibition centre from 21 to 23 October 2025. At stand 6L20, the ELAFLEX Group will provide detailed information about safe solutions for handling compressed hydrogen (CH₂), liquid hydrogen (LH₂) and liquefied CO₂ in CCS/CCUS processes.

In the context of cross-sector decarbonisation, hydrogen is already playing an important role. CH₂, LH₂ and CO₂ place enormous demands on handling and storage. As a leading international specialist in refuelling technology, ELAFLEX Group has been providing safe system solutions for handling alternative energy sources (ammonia, hydrogen, LNG, CNG) and liquefied CO₂ for many years. The long-standing expertise of ELAFLEX Group's experts in the field of H₂/LH₂ ensures maximum operator safety, sophisticated ergonomics, uncompromising environmental protection and above-average flow rates along the entire transfer chain. The following solutions and products, among others, await trade visitors from all over the world at stand 6L20 in hall B6 of the Messe Hamburg exhibition centre:

- MannTek Nozzles with corresponding hose assemblies for manual (N-LH₂) or semi-automatic, pneumatically assisted (N-LH₂-P) refuelling of vehicles with cryogenic hydrogen (LH₂) with high flow rates.
- Newly developed hydrogen refuelling set for vehicles with 350 bar (ELAFLEX N-H₂-H35) or 700 bar (ELAFLEX N-H₂-H70UHF), optionally available with IR data interface.
- New TPED trailer valves/manifolds and quick couplers from Oasis to significantly increase the flow rate when refuelling with compressed hydrogen.
- H₂+ hose assemblies, couplings and ERV-H₂+ rubber expansion joints from ELAFLEX with an ultra low permeation rate for the safe transfer of 100% hydrogen, 100% methane or in varying mixing ratios (hythane) in the low-pressure range ERV-H₂+ rubber expansion joints are now also available with PTFE liners on request for use with high-purity media, e.g. in electrolyzers.
- Dry couplings and hose assemblies for the sophisticated handling of liquefied CO₂ in CCS processes and for the transfer of ammonia.

For monitoring the various applications, ELAFLEX Group offers electronic leak detection systems from SGB for the challenging use in explosion-hazardous areas (EX).

About ELAFLEX Group

The ELAFLEX Group is a globally leading specialist for the transfer of liquids and gases, developing and distributing solutions for handling of conventional and alternative fuels as well as chemicals. Today, ELAFLEX stands for cross-industry standards regarding safety and quality for already more than 100 years. The unmatched quality of the user-friendly products is based on durability, sustainability, reliability, and results in a low Total Cost of Ownership (TCO). As a global system provider, the ELAFLEX Group combines decades of expertise and innovative strength along the entire transport chain. Aljac, Dantec, ditec, ELAFLEX, MannTek, Oasis and SGB always consider the path of sensitive media from production or extraction to the end user as a whole and optimally harmonise all components involved.

Media Contact:

Jörg Hüttmann

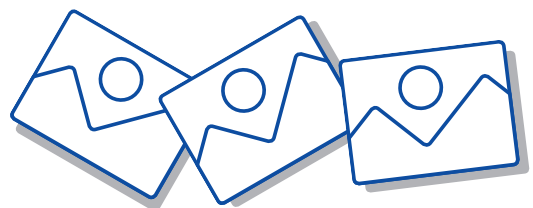
huettmann@elaflex.de

Tel. +49 40-540005 1019

ELAFLEX HIBY GmbH & Co. KG

Schnackenburgallee 121 · 22525 Hamburg

presse@elaflex.de · elaflex.com



*The following images can be requested in printable or online resolution by sending a short e-mail to **presse@elaflex.de**:*



N-LH2-P – semi-automatic, pneumatic nozzle from MannTek for refuelling trucks with cryogenic hydrogen (LH2).



N-H2-H35 – nozzle for refuelling vehicles with 350 bar hydrogen from ELAFLEX, optionally available with IR data interface.



N-H2-H70UHF – nozzle for refuelling vehicles with 700 bar hydrogen from ELAFLEX.



New TPED equipment from Oasis to significantly increase the flow rate when refuelling with compressed hydrogen.



ERV-H2+ rubber expansion joints from ELAFLEX with an ultra low permeation rate for the safe transfer of hydrogen, methane or 'hythane', also available with PTFE liner on request.