

Safe handling of hydrogen – ELAFLEX at Hydrogen Technology Expo Europe 2024

Hamburg, September 2024 – ELAFLEX Group will be exhibiting at Hydrogen Technology Expo Europe from 23 to 24 October 2024. At stand 1B20 in hall A1 of Messe Hamburg, trade visitors will find solutions and products for the safe and effective handling of hydrogen (H₂), liquid hydrogen (LH₂) and liquefied CO₂ (Carbon Capture).

Hydrogen is one of the most important alternative fuels/energy sources in the context of the energy transition. The Capture and Storage of Carbon dioxide (CCS) prevents the emission of greenhouse gases when their generation cannot be completely avoided. H₂, LH₂ and CO₂ place enormous demands on handling and storage. As the leading international specialist for refuelling technology, ELAFLEX Group has been offering system solutions for the handling of alternative energy sources (ammonia, hydrogen, LNG, CNG) and liquefied CO₂ on the market for many years now. ELAFLEX experts therefore have market-leading expertise in the field of H₂/LH₂. Ensuring maximum operator safety, uncompromising environmental protection, well designed ergonomics and above-average flow rates along the entire transfer chain is the focus of the ELAFLEX Group's globally engaged hydrogen specialists. Trade visitors will find the following solutions and products at stand 1B20 in hall A1 at Messe Hamburg:

- Nozzles with corresponding hose assemblies for manual (N-LH₂) or semi-automatic, pneumatically assisted (N-LH₂-P) refuelling of vehicles with cryogenic hydrogen (LH₂) from MannTek
- Newly developed hydrogen refuelling set for vehicles with 350 bar (ELAFLEX N-H₂-H35) or 700 bar (ELAFLEX N-H₂-H70UHF)
- New TPED trailer valves/manifolds and quick couplers from Oasis to significantly increase the flow rate when refuelling with compressed hydrogen
- H₂+ hose assemblies, fittings 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
- Dry couplings and hose assemblies for the sophisticated handling of liquefied CO₂ in CCS processes

About ELAFLEX Group

As a solution provider, ELAFLEX Group specialises in the development, manufacturing, distribution and maintenance of handling and refuelling technology for hydrogen, CNG, LNG, LPG, conventional fuels and chemicals. As an internationally active family business, we have been setting cross-industry standards in terms of durability, quality, safety, sustainability and total cost of ownership (TCO) for more than 100 years. The constant and trusting dialogue with our customers allows us to combine ecological and social responsibility, innovation leadership and user-friendliness of our solutions. ELAFLEX, Dantec, ditec, 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.

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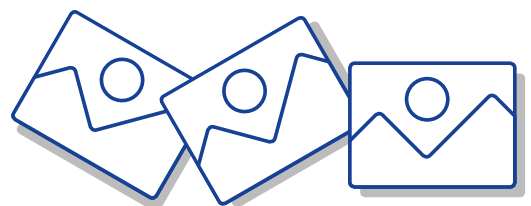
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The following images can be requested in printable or online resolution by sending a short e-mail to presse@elaflex.de:



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



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'