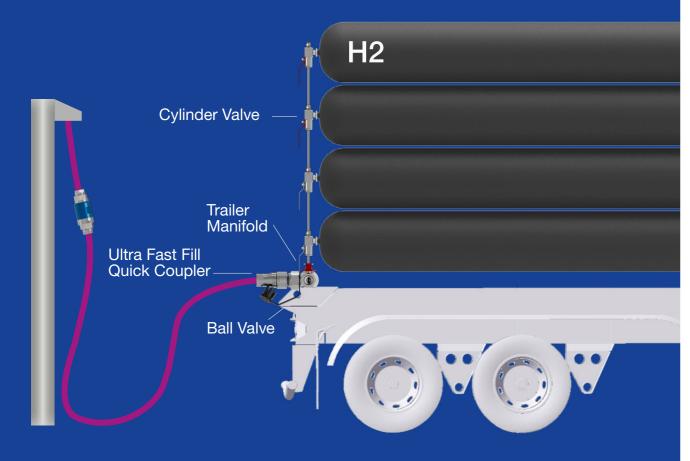
# NEXT GENERATION COMPRESSED GASEOUS H2 TRAILER EQUIPMENT

Ultra Fast Fill TPED Valves, Quick Couplers and Manifolds for up to 520 bar



# **ULTRA FAST FILL TPED EQUIPMENT**

Safety and efficiency are critical competitive factors in the hydrogen transportation business. Uncompromisingly secure solutions from ELAFLEX and Oasis for ultra fast loadings and unloadings of trailers with compressed hydrogen (CH2) are in use all around the world. A sophisticated full-bore design allows very high flow rates for cylinder valves, ball valves, manifolds and specific hydrogen quick connect/disconnect couplings. They are suitable for trailers/MEGCs/pressure cylinders with a WP of 385 bar or alternatively a WP of 520 bar. All ball valves, cylinder valves and manifolds are equipped with an anti-blow-out stem for an ever-safe operation. TPED approved, maritime approval on request.



# **BALL VALVES**

Oasis BV900 Series (WP 385 bar) and BV400 Series (WP 520 bar) ball valves are designed as main shut-off valves as well as header or section valves for trailers, MEGCs and ship applications. For use with hydrogen, helium, CNG/rCNG, nitrogen and other compressed gases. In comparison to needle valves, ball valves allow a much higher flow rate as well as a superior durability, since ball valves cannot get overtightened. Even from the distance, the operator can identify the 'open/closed' position of the valves due to lever position – a relevant safety factor for standard trailer operations as well as during servicing. All ball valves are easy to service, with spare part kits readily available. Available from ¼" to 1", -40 °C to 65 °C/85 °C, WP 385/520 bar, variety of connections readily available, customized connections on request.



### CYLINDER VALVES/TANK HEAD VALVES

Oasis TH900 Series (WP 385 bar) and TH400 (WP 520 bar) cylinder valves are the choice for cylinder sizes where flow rate matters, e.g. horizontal tube trailers. In contrast to needle-type valves, the ball valve principle allows a full-bore design for fastest possible loading and unloading – also available with ports for a temperature sensor/thermowell integration and/or with a TPRD valve. Variants with commissioning port enable the cylinder to be isolated for trailer testing purposes. Clear identification of 'open/closed' position of the valve due do the lever position. 360° adjustable cylinder neck adapters, no clocking of cylinders needed. Cylinder valves are easy to service, with spare part readily in stock. Size ½", -40 °C to 65 °C/85 °C, WP 385/520 bar. Variety of outlet connections readily available, customized connections on request. Cylinder neck connections are 25 E or UNF 18 adjustable adapter.







# **QUICK COUPLERS**

For loading and unloading of 200, 300 and 380 bar hydrogen trailers, ELAFLEX and Oasis developed specific hydrogen trailer quick couplings. They can easily be retrofitted to existing trailers and mother stations. In contrast to well-known threaded DKOS-type connectors, these Quick Couplers offer a fast AND safe positive connection for bidirectional flow: no misallignments, no unintended half-connections – the connection is either on OR off. A connection indicator provides additional user-feedback. Spring-loaded poppets on both sides secure the gas quality without the need to frequently flushing the loading equipment. Quick Couplers conform to PED 2014/68/EU with a temperature range from -40 °C to 85 °C.

## TRAILER MANIFOLD

To reduce space requirements and remove additional leak points/interfaces from the piping system, Oasis developed an integrated trailer manifold with two loading/unloading ports and integrated full bore ¾" ball valve (to header) and ¼" spare vent valve. Easy to service, with part kits readily available from stock. Temperature range -40 °C to 65 °C/85 °C, WP 385 bar.

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