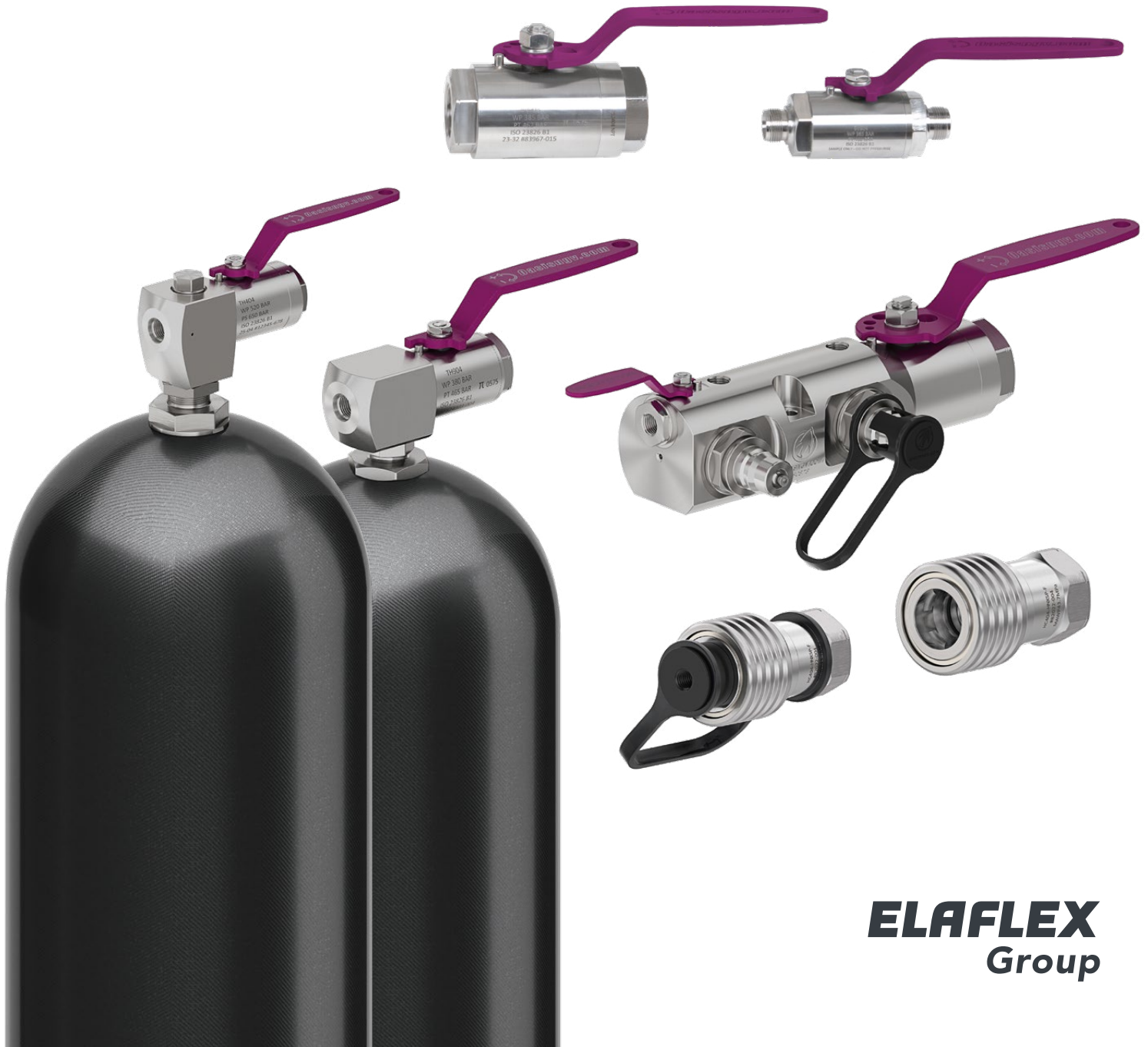


NEXT GENERATION COMPRESSED GASEOUS H2 TRAILER EQUIPMENT

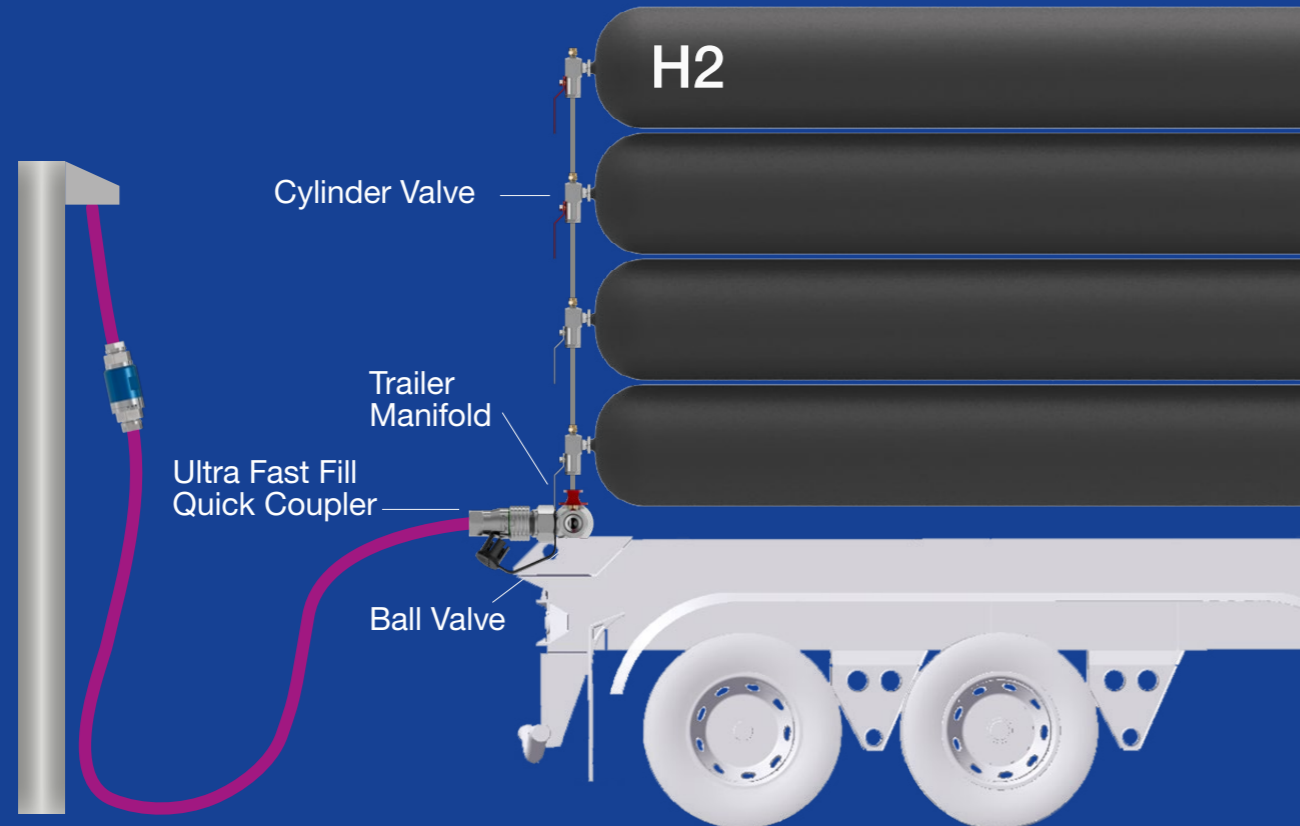
Ultra Fast Fill TPED Valves,
Quick Couplers and Manifolds for up to 520 bar



ELAFLEX
Group

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 to 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 misalignments, 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.



THE ELAFLEX GROUP

// Air Traffic Trade

Aljac

DANTEC

ditec

Oasis

ELAFLEX

MannTek

SGB

REIFLEXA



Contact data of our approximately
150 distribution partners worldwide:

elaflex.de/en/contact/distribution-partners

ELAFLEX WORLDWIDE

Air Traffic Trade AB Sweden	Måttbandsvägen 12 18766 Täby Tel. +46 8-768 39 90 info@airtt.se airtt.se	ELAFLEX FRANCE SARL France	Aktipark 50 Rue des Chardonnerets, Lot N° 3 93290 Tremblay en France Tel. +33 1 41 84 06 22 info@elaflex.fr elaflex.fr	ELAFLEX Yakıt İletim Ürünleri Ltd. Şti. Turkey	42 Maslak Plaza Ahi Evran Street No:6 34485 Maslak - Sarıyer İstanbul, Turkey Tel. +90 212 974 1020 batuhan.kiroglu@elaflex.com elaflex.com.tr
Aljac GmbH Germany	c/o ELAFLEX HIBY GmbH & Co. KG Schnackenburgallee 121 22525 Hamburg Tel. +49 40 6908 4116 info@aljac.de aljac.de	ELAFLEX ITALIA SRL Italy	Via Industriale 28 25086 Rezzato (BS) Tel. +39 030 249 61 00 info@elaflex.it elaflex.it	Mann Teknik AB Sweden	Strandvägen 16 54231 Mariestad Tel. +46 501 39 32 00 sales@manntek.se manntek.se
Aljac Fuelling Components Ltd. Great Britain	Unit 1a, Watchmore Point Camberly, Surrey GU15 3AD Tel. +44 1932 269869 sales@aljac.com aljac.com	ELAFLEX Latin America S.A. Argentina	Av. Dardo Rocha 2524 Piso 1° Martinez (1640) Buenos Aires, Argentina Tel. +54 11 4836-3510 ventas.latinamerica@elaflex.com.ar elaflex.com.ar	Mann Teknik China China	Building C, No 505, 23rd Street, Qian Tang District, Hangzhou Tel. +86 571-87695112 info@manntek.cn manntek.cn
DANTEC LTD Great Britain	Tarran Way, Moreton, Wirral CH46 4TL Tel. +44 151 678 2222 sales@dantec.com dantec.com	ELAFLEX LTD Great Britain	Riverside House Plumpton Road Hoddesdon, Herts EN11 0PA Tel. +44 1992 45 29 50 sales@elaflex.co.uk elaflex.co.uk	MannTek Couplings India Pvt. Ltd. India	Office No. LF7A/7B Lotus Aura, Sama -Savli Road, Vadodara - 390008, Gujarat Tel. +91 9558 825 855
ditec Gruppe Germany	An der Staustufe 6 97318 Kitzingen Tel. +49 9321 2307-0 info@ditec-adam.de ditec-adam.de	ELAFLEX NV Belgium	Merksemsesteenweg 192 2100 Deurne (Antwerp) Tel. +32 3 32 80 420 info@elaflex.be elaflex.be	Oasis Engineering Limited New Zealand	129 Birch Avenue Tauranga, 3110 Tel. +64 7 928 3808 info@oasisngv.com oasisngv.com
ELAFLEX AB Sweden	Måttbandsvägen 12 18766 Täby Tel. +46 8 980 130 info@elaflex.se elaflex.se	ELAFLEX PACIFIC PTY LTD Australia	Unit 29/58 Box Road Taren Point NSW 2229 Tel. +61 2 9525 0945 info@elaflex.com.au elaflex.com.au	SGB GmbH Germany	Hofstraße 10 57076 Siegen Tel. +49 271 48964-0 sgb@sgb.de sgb.de
ELAFLEX HIBY Asia-Pacific Pte. Ltd. Singapore	Mr. Marvin Lambert Office Singapore Tel. +65 8486 4435 marvin.lambert@elaflex.com	ELAFLEX Representation Office China	Mr. Jing Fan Room 1120, 1101 South Pudong Road, 200120 Shanghai, P.R. China Tel. +86 21 505 414 54 fan.jing@elaflex.net.cn elaflex.com		
ELAFLEX BRAZIL Eireli Brazil	Avenida Brigadeiro Luis Antonio, N° 300 8° andar sala 82 Bela vista, São Paulo-SP Brazil - CEP 01318-903 Tel. +55 11 4153-2171 vendas.brasil@elaflex.com.ar elaflex.com.ar	ELAFLEX US Inc. USA	11310 Slater Ave Fountain Valley, CA 92708 Tel. +1 888 472 7444 info@elaflexus.com elaflexus.com		

ELAFLEX
Group

ELAFLEXHIBY GmbH & Co. KG
Schnackenburgallee 121
22525 Hamburg | Germany
Tel. +49 40 540005-0
info@elaflex.de · elaflex.com