



# Marine Liquid & Gas Handling Equipment

**ELAFLEX**



# News from ELAFLEX and MannTek

As your reliable partner for safe and durable refuelling equipment, we keep you up-to-date about our products and the latest solutions for the marine industry.

ELAFLEX is operating on a global basis through our own network of daughter companies as MannTek and DanTec offering unrivalled specialist technical support for standard and alternative fuels. We are a committed partner to our customers and manufacture products which meet the marine logistic needs.

Please discover our refuelling products – for now and in the future.



## Expansion Joints

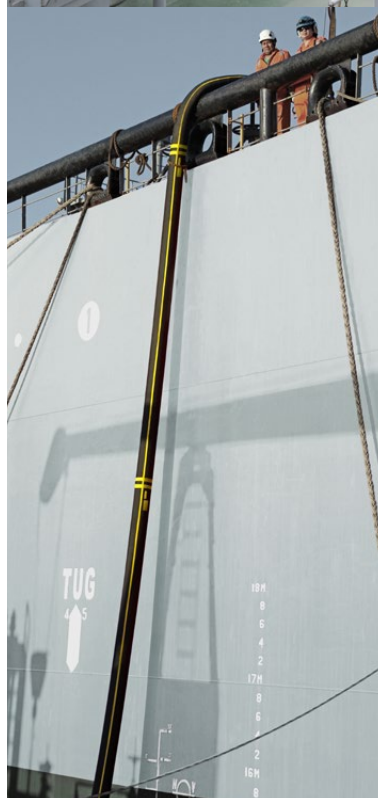
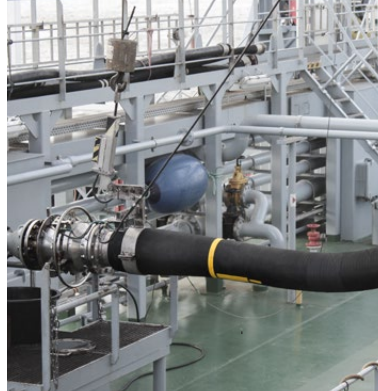
Premium **Rubber Expansion Joints 'ERV'** are certified to global standards for use aboard ships. **Type approvals** are available from various Notified Bodies such as DNV, Lloyd's Register, American Bureau of Shipping and others. They are also standardised to German Defense Standard VG 95958/95959.

**All 14 different types are manufactured** in Germany.

Type **'ERV-GS'** is approved fire resistant as per ISO 15540/15541 and fulfils the requirements of the 'Marine Equipment Directive'.

ELAFLEX expansion joints are **installed in all pipework systems** e. g. in engine rooms, fire mains or sanitary lines **to reduce vibration, absorb noise and compensate movements**. Our ERV are the appropriate choice for scrubber systems.

Request online  
[ervconfigurator.elaflex.de](http://ervconfigurator.elaflex.de)



**DANTEC**

## Bunkering / Cargo Hoses

ELAFLEX produces hose assemblies **conforming** to the latest edition of the **EN 1765 standard** with pressure tests and certificates, with **short lead times**.

Deliverable size range DN 50 up to 250 (2" to 10"). **All sizes are available ex stock** – with 15 bar pressure rating and electrical continuity types 'M' (el. bonded), OHM (el. conductive) or discontinuous.

EN 1765 has approved **reusable safety clamps** to EN 14420 which have become the most practical assembling method. They fit perfectly onto the EN 1765 hose sizes and can be reassembled in the field, **resulting in significant less downtime** as well as **cost savings for operators**. Other assembly types such as **built-in hose nipples** (vulcanised), **crimped** or **swaged ferrules** are also available.

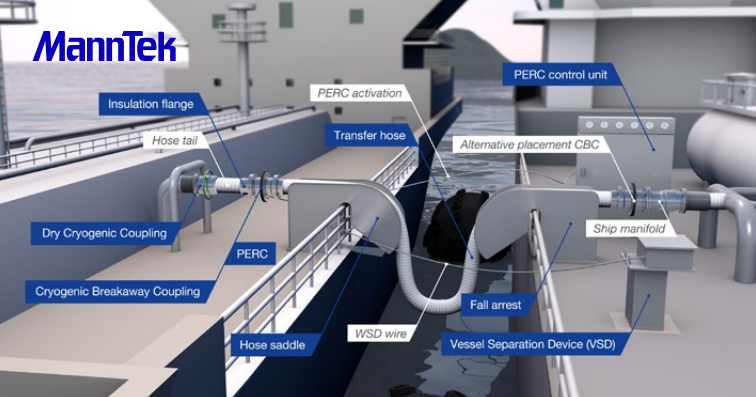
In addition, we supply **composite hose assemblies** to EN 13765 for cargo application in sizes up to 10".



Technical Information  
[ELAFLEX Information 14.16 + ELAFLEX Information 8.18](#)  
Request online  
[hoseconfigurator.elaflex.de](http://hoseconfigurator.elaflex.de)



**MannTek**



## Hose Reels

Our **Hose Reels** are produced in-house to a high quality level as is expected from ELAFLEX refuelling equipment.

**Supplied as a complete package** including our hose assemblies up to DN 200 (8") and e.g. MannTek Dry Disconnect Couplings 'DDC' or ZVA HiFlo nozzles – almost any configuration is possible.

The hose reel package of **modular design and tailored** to suit your space, media and operating requirements, available with **different rewind mechanisms**: manual, spring, motorised (electric, hydraulic or pneumatic).

We offer them in **various materials** and in **any colour**.

The **robust rewind construction** makes them **very durable for heavy duty and intensive use**, also under rough conditions at ports or terminals.

Technical Information  
[elaflex.com/HoseReels](http://elaflex.com/HoseReels)



## LNG Refuelling

A large number of LNG fuelled ships, tankers or passenger ferries sail the oceans nowadays. **MannTek** has developed the well-known **Dry Cryogenic Couplings 'DCC'** coupling system for a safe and easy-to-use loading transfer of LNG, down to  $-196^{\circ}\text{C}$ , approached to ISO 21593.

The LNG handling equipment also includes **Cryogenic Breakaway Couplings 'CBC'** and **'PERC'** which have a well proven record for performance, reliability and safety. Working closely on-site and together with leading regulatory authorities, MannTek has gained extensive knowledge across the entire LNG value chain. Today, MannTek **offers a complete LNG transfer system** to meet the needs of tomorrow's maritime industry: HPN2 power unit for 'PERC' couplings, ESD 1 & 2 vessel system, hose assemblies and accessories.

### ISO / EN Standard

MannTek as a worldwide leading manufacturer offers a fully compatible series of LNG bunkering products to EN1474-3, ISO TS18683 and ISO 21593 standards.

[manntek.se/lng-solutions](http://manntek.se/lng-solutions)



## Your Contact

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For Composite Hose Assemblies:

### **DanTec LTD**

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