

# Marine Liquid & Gas Handling Equipment

## News from ELAFLEX and MannTek

Even, if we do not meet at SMM 2021, we will as your reliable partner for safe and durable marine equipment, keep you up-to-date about our products and the latest solutions.

ELAFLEX has lately become a member of the International Bunkering Industry Association (IBIA) to better understand the maritime industry's needs. We operate on a global basis through our own network of daughter companies and as MannTek and Dantec, offering unrivalled specialist technical support for standard and alternative fuels.

Please discover more about our products for marine applications – for now and in the future.

## Expansion Joints

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

**13 different types** are available and 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 comply with working conditions of scrubber systems and can be installed in such units.



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



## 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 L15 pressure rating and electrical continuity types 'M' (electr. bonded), OHM (electr. conductive) or discontinuous.

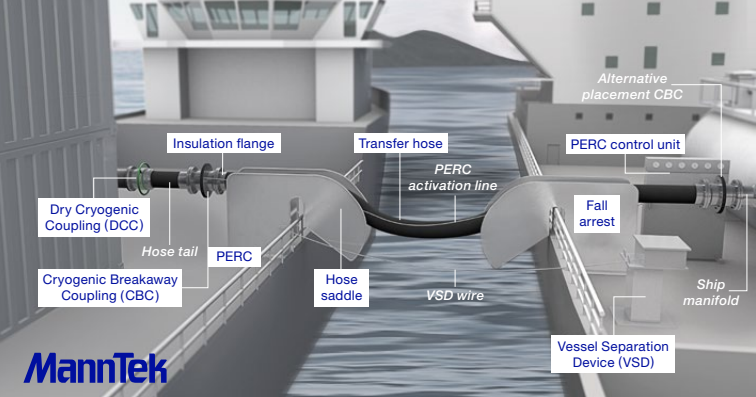
According to the latest edition of EN 1765 **reusable safety clamps** to EN 14420 can also be used. They fit perfectly onto the EN 1765 hose sizes and can be reassembled in the field, **resulting in significant less downtime** as well as **cost savings for operators**. Other assembly types such as **built-in hose nipples** (vulcanised), **crimped** or **swaged ferrules** are also available.



Technical Information  
ELAFLEX Information 14.16 +  
ELAFLEX Information 8.18

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





**MannTek**



## Hose Reels

Our **bespoke 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 'DCC' or ZVA HiFlo nozzles – almost any configuration is possible.

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

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

We can design them in **various materials** and in **any colour**.



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. Already in 2012, our subsidiary **MannTek** introduced their well-known **Dry Cryogenic Couplings 'DCC'** coupling system for a safe and easy-to-use loading operation of LNG, down to -196° C.

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 with leading regulatory authorities, MannTek has gained extensive knowledge across the entire LNG value chain. Today, MannTek can **offer 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 the standards EN 1474-3, ISO TS18683 and ISO 21593:2019.

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



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For Expansion Joints, Bunkering /  
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