

# Chemical Industry



**MannTek**



# The MannTek way



**Connections, dedicated teams, innovative expertise – all beyond expectations**

We strongly believe in connections – in more ways than one. Since 1997 we have been producing innovative and safe coupling products. But that’s not where the story ends. We develop coupling solutions beyond expectations.

None of this would be possible without dedicated teams. Our experienced personnel are the heart of our existence. We deliver engagement and dedication embodied in customized solutions for our customers. In a world where humans create new challenges every day, we provide reliable and innovative solutions to meet our customers’ most pressing needs.

That’s why our organization is built upon good communication, respect for others, and trust. At MannTek it is essential to connect with each other, with customers and with distributors, based on respect and understanding. Our open working environment and company culture fosters communication and knowledge sharing in a free climate.



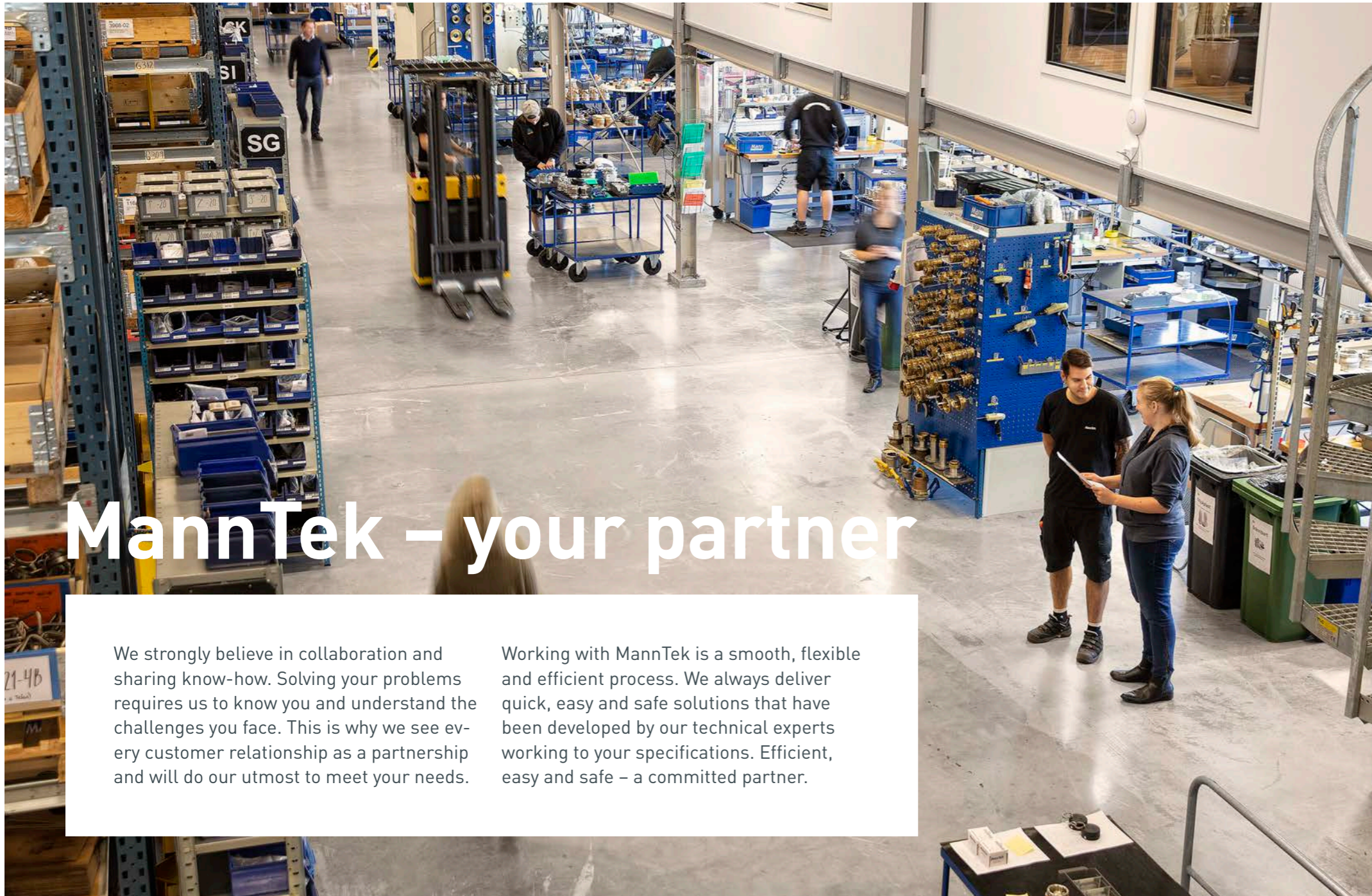
Customized solutions

**UNLIMITED POSSIBILITIES**

Innovative, safe and reliable

**SIMPLE EFFICIENCY**





# MannTek – your partner

We strongly believe in collaboration and sharing know-how. Solving your problems requires us to know you and understand the challenges you face. This is why we see every customer relationship as a partnership and will do our utmost to meet your needs.

Working with MannTek is a smooth, flexible and efficient process. We always deliver quick, easy and safe solutions that have been developed by our technical experts working to your specifications. Efficient, easy and safe – a committed partner.

## A UNIQUE CRAFT

**We never compromise with quality.** Designing for essential safety requires knowledge, competence and expertise. Our production team has unique skills that take innovation to a new level. This is the foremost reason we can call ourselves market leaders today.



**TAILOR-MADE COUPLINGS** Working with aggressive fluids, gases and bulk powder requires more than safety. Our couplings guarantee no spill thanks to a tailor-made design. A solution from MannTek is the best way to make sure the work environment remains clean, safe and spill-free.

**EASY, READY AND OPTIMIZED** With more than 20 years of experience of producing couplings for harsh environments, we know the drill. We are continuously improving and extending the performance and design of our products. Working with us is easy as we deliver safe, cost-effective solutions.



# BE SAFE – EVERY DAY

Designing pipe works, hoses, valves and tanks for aggressive, explosive or otherwise dangerous media is always challenging. And it's especially challenging to design the parts that human hands touch. Safety, robustness and reliability are what we cope with every day.



We design the widest range of DDC couplings in the world – available in almost any existing metal and many composite materials. Combined with sealing materials with working temperatures from  $-196^{\circ}\text{C}$  to  $+280^{\circ}\text{C}$ , and the largest variation of connections, this makes a unique match to specific requirements. To fulfil special handling procedures our couplings could be equipped to suit almost any requirements.



**Service to the food and beverage industry.** Our couplings have been used for beer transportation for many years now. Distilleries are now following in their footsteps, as both whisky and other liquor producers appreciate how our dry disconnect couplings improve their working environment. DDCs deliver full spillage control and eliminate unwanted mixing of products.

# OUR SOLUTION RANGE

For the chemical industry we deliver a wide range of products for demanding applications in many different operations.

**DDC** – Dry Disconnect Couplings

**DEC** – Dry Evotek Couplings

**SBC** – Safety Breakaway Couplings

## DDC

### Dry Disconnect Couplings

**A single action to connect. Spill-free handling in the chemical industry. The highest level of safety.**

#### + Key benefits

**RAPID** No need to drain hoses or pipe

**COST-EFFICIENT** No loss or spillage of liquids when connecting or disconnecting

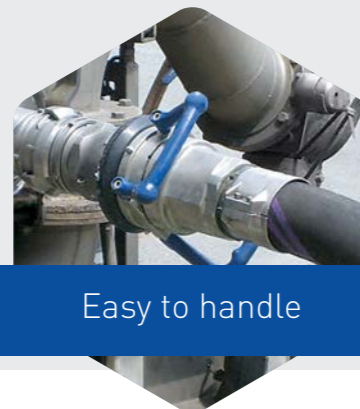
**SAFE** The valve cannot be opened until the unit is coupled

**ENVIRONMENTALLY FRIENDLY** Accidental spillage eliminated

**RELIABLE** No loss or spillage of liquids at connection or disconnection

#### Applications

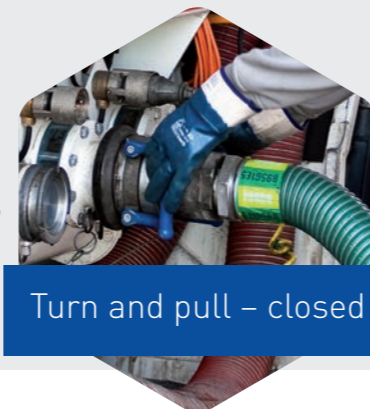
- Top and bottom loading of tank trucks, ISO containers, railcars, etc.
- Blending pits/mixing stations
- Internal plant handling
- Coupling from delivery truck to storage tank.
- Sampling



Easy to handle



Push & turn – free flow



Turn and pull – closed



## TRY OUR ONLINE CONFIGURATOR



#### Find your solution

Find your tailor-made product easily with our configurator. Your solution is just a few clicks away. You can save and return to your products.

[configurator.mantek.se](http://configurator.mantek.se) →

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## DEC

### Dry Evotek Couplings

A new generation of Dry Disconnect Couplings ergonomically designed for coupling against pressure, with minimal pressure loss and minimal effort to separate.

#### + Key benefits

**LOW CONNECTING FORCES**

**ERGONOMIC HANDLE**

**GOOD TRANSITION RATIO IN THE CAM CURVE**

**WIDE RANGE OF CHEMICAL RESISTANCE AND HIGH-QUALITY MATERIALS**

**MINIMIZED SPILLAGE DURING DECOUPLING**

#### Applications

- Top and bottom loading of tank trucks, ISO containers, railcars, etc.
- Blending pits/mixing stations
- Internal plant handling
- Coupling from delivery truck to storage tank.
- Sampling



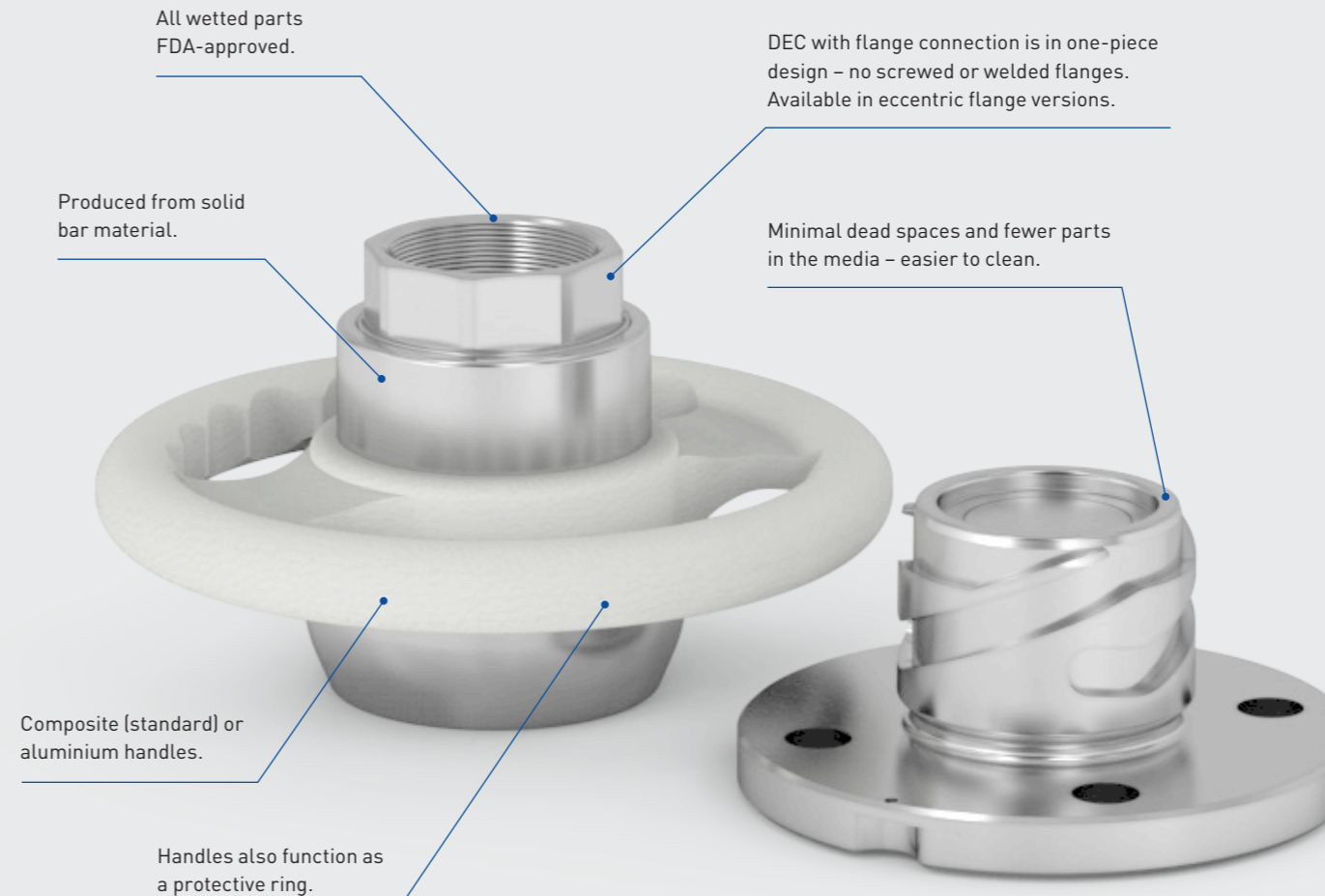
Easy to handle



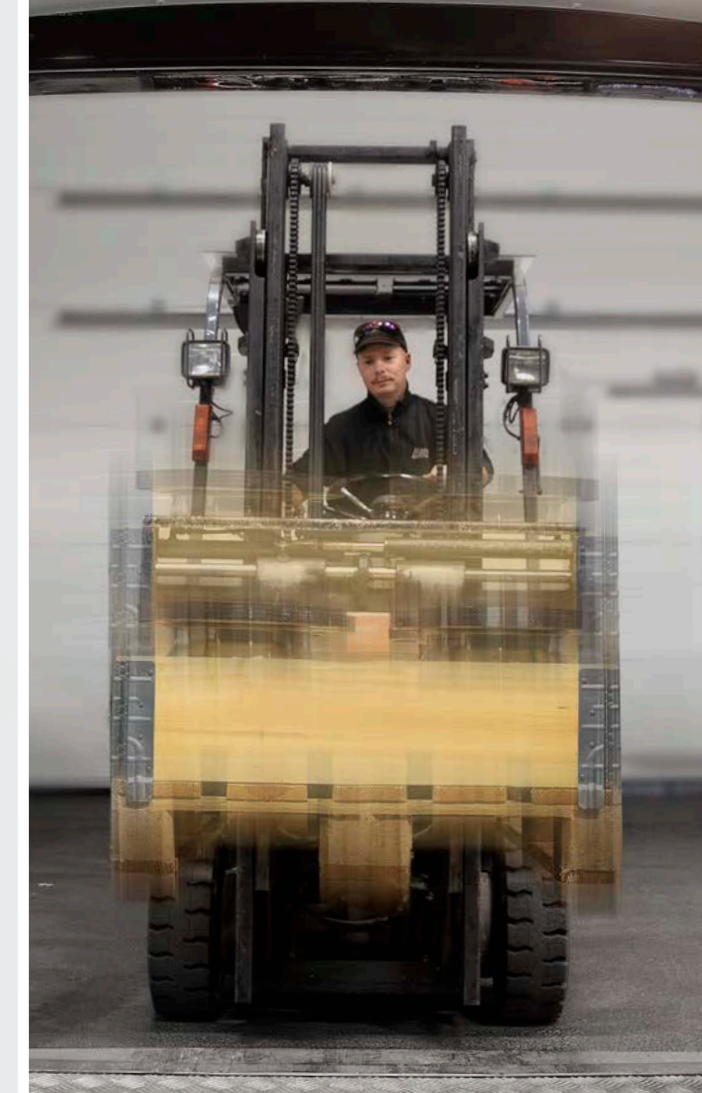
Push & turn – free flow



Turn and pull – closed



## SHIPPING WORLDWIDE



# OUR SOLUTION RANGE

**DDC** – Dry Disconnect Couplings

**DEC** – Dry Evotek Couplings

**SBC** – Safety Breakaway Couplings

## SBC Safety Breakaway Couplings

Prevent pull-away accidents and create a higher safety level for transfer systems. Our SBC Couplings are safe, flexible and efficient. There are two types available – breaking bolt or cable release.

### + Key benefits

**EASY TO HANDLE** Easy for a single person to reset on-site. Light-weight, robust design. Simple mechanism with no loose components that could be lost after release.

**SAFE** Passive security against situations where a hose or loading arm might be subjected to inadvertent excessive loads.

**COST-EFFICIENT** Operates independently of shut-off safety system. No external power source required. Very low-loss, positive shut-off of both coupling halves results in minimal product loss.

**FLEXIBLE** High flow rate/low pressure drop. Available with ANSI/DIN flanges or threaded (BSP or NPT)

### Applications

- Ship to rig fluid transfer
- Ship to shore fluid transfer
- Ship to ship fluid transfer
- Bunkering, Marine refueling



Easy installation



Calculated breaking point



Valves close at separation for minimal spill

### BREAKING BOLT

Variation of breaking load – will be calculated for each installation.

Available in both industrial version with any breaking angle – and marine type with straight pull only.

Slim design is available for hose reels application.

Protect line from over pressure.

Choose inlet and outlet connections individually – any combination of connection available.

After activation the unit can be reset in minutes without special tools.

Reliable poppet valve design.

Easy to service – no special tools needed.

No nipples or reducers necessary – produced with a wide range of flanges and threads.

Available with integrated hose shank.



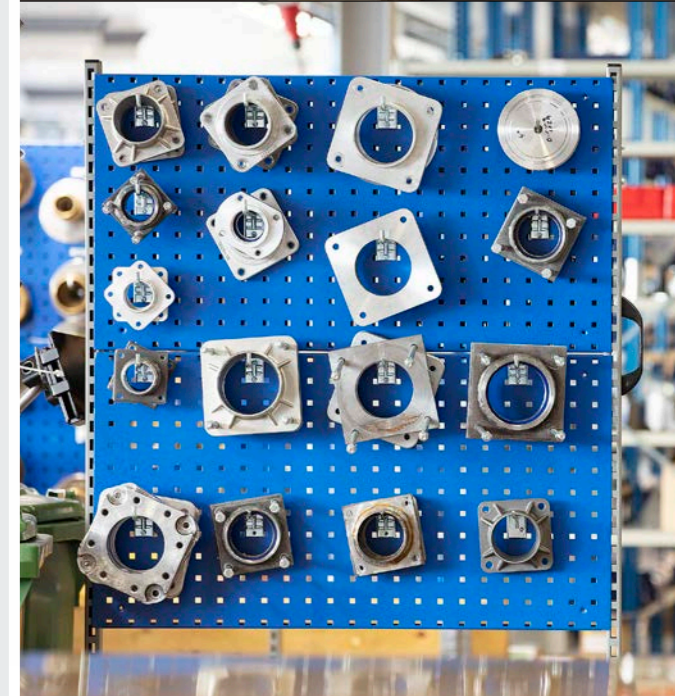
### CABLE RELEASE

Breaking force more independent from pressure.

Withstands extreme sideload.

Low breaking force.

FIRST IN LINE  
FIRST IN TIME



# INNOVATIVE ACCESSORIES

Some of our most popular accessories. Our online configurator will give a complete overview matching your product specifications. Like our couplings, our accessories are always certified by Lloyds, TÜV, Apragaz, Bureau Veritas, TDT, plus any regionally required approvals.

**PRESSURE CAPS THAT CAN REPLACE COUPLINGS** Third closure (valve) on rail tankers, containers and tank trucks. Maximizes safety both for operator and container. Can be used instead of traditional ball valves.



**PRESSURE EQUALIZING VALVE** This system dissipates trapped fluid pressure into the hose coupler without spillage, to allow easy connection. Allows safe opening without pressure.



Connections can be selected independently, according to your applications.

Single or double ball race.  
Free rotation to avoid hose torsion.

**SWIVEL JOINTS** Enables free and slow rotation of hoses, nozzles and other fittings under the influences of internal pressure and/or external forces.



**TANK UNITS** with eccentric flanges. Tank units / Adapters with eccentric flanges are available in sizes 1" to 6". Eliminates risks of liquid remaining in the tube.

Equalizing the pressure between hose and tank unit, for easy and safe use.



**Find all our accessories in one place**

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### COMPANY APPROVALS

