



# ***RAILTANKERS***

**DDCouplings®**  
Dry Disconnect Couplings



**DGCouplings®**  
Dry Gas Couplings



**SBCouplings®**  
Safety Break-away Couplings







Our long experience and demanding requirements from the industry has brought us in to considerable product developments and technical solutions. We guarantee the highest level of safety and quickest way of connecting and disconnecting.



# **DDCouplings®**

## **Dry Disconnect Couplings**

Mann Tek Dry Disconnect Couplings® are designed for a safe and spill free handling in the rail industry. We know the importance of reliability, safety and the priority of eliminating unwanted leakage and product loss in these harsh environment. With a standardized connection, our couplings protect other equipment as well as the environment.



### **TECHNICAL INFORMATION**

#### **Sizes:**

1" (DN25) to 8" (DN200)

#### **Materials:**

Aluminium, Brass, Stainless steel, Hastelloy, Titanium. Others on request.

#### **Seals:**

FPM (Viton®), EPDM, FFKM (Chemraz®, Kalrez®), HNBR & NBR (Nitrile). Other materials on request.

#### **Maximum working pressure:**

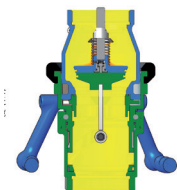
MWP PN 10 / 16 / 25 Bar

MAWP 150 / 300 psi

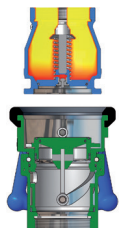


#### **Connections:**

Female and male BSP/ NPT, metric or S60x6 thread. Flanged connections EN1092 (DIN), ANSI, TW and TTMA. Integrated break-away, pressure relief valve or other on request.



**To connect**  
Push and turn -  
it's coupled with full flow



**To disconnect**  
Turn and pull -  
it's released and no spillage

### **Advantages**

- **Easy to handle**  
Push and turn - free flow.  
Turn and pull - closed.
- **Time saving**  
No need to drain hoses or pipe systems.
- **Economical**  
No loss or spillage of liquids at connection or disconnection.
- **Safe**  
The valve cannot be opened until the unit is coupled
- **Environmentally friendly**  
Accidental spillage eliminated.
- **Reliability**  
No loss or spillage of liquids at connection or disconnection.

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- **Reliability**  
No loss or spillage of liquids at connection or disconnection.

## **DGCouplings®** **Dry Gas Couplings**

Mann Tek® Dry Gas Couplings are designed for a spill free handling, eliminating leakage, product loss and guarantees for a safe working place.



### TECHNICAL INFORMATION

#### Sizes:

1" (DN25) to 8" (DN200)

#### Materials:

Stainless steel.

#### Seals:

FPM (Viton®), EPDM, FFKM (Chemraz®, Kalrez®), HNBR & NBR (Nitrile). Other materials on request.

#### Maximum working pressure:

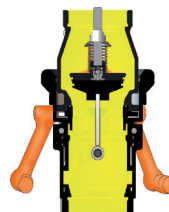
MWP PN 10 / 16 / 25 Bar

MAWP 150 / 300 psi



#### Connections:

Female and male BSP/ NPT, metric or S60x6 thread. Flanged connections EN1092 (DIN), ANSI, TW and TTMA. Integrated break-away, pressure relief valve or other on request.



**To connect**  
Push and turn -  
it's coupled with full flow



**To disconnect**  
Turn and pull -  
it's released and no spillage





With one single action, a straight forward push and a turning motion, to connect the couplings for a full flow. A quick and easy "turn and pull"- action will close the valve and disconnect, with no spillage.

The Safety Break-away couplings are available as Industrial and Marine type. Industrial Break-aways are used at fix points like manifolds, pipelines depots etc.

The Marine version of SBCouplings are designed specifically to be installed within a hose string, where the coupling would have a length of hose attached to both sides.

## Features

- **Passive security** against situations where a hose or loading arm could be subjected to inadvertent excessive loads.
- Design features are a **simple mechanism** and no loose components which could be lost after release.
- **Operates independently** of shut off safety system and does not require an external power source.
- **Easy to reset** on site with one person
- **High flowrate** / low pressure drop
- **Very low product loss**; positive shut-off of both coupling halves results in minimum product loss.
- **Lightweight** and robust design.

# SBCouplings®

## Safety Break-away Couplings

Mann Tek Safety breakaway couplings® are used to prevent pull away and drift away accidents in harsh environments. In case of a pull away incident, the two coupling halves will separate and immediately close the flow in both directions and therefor prevent accidents and unwanted spillage of any product.



## TECHNICAL INFORMATION

### Sizes:

1" (DN25) to 12" (DN300)

### Seals:

FPM/FKM (Viton®), EPDM, FFKM (Chemraz®, Kalrez®). HNBR & NBR (Nitrile). Other materials on request.

### Maximum working pressure:

MWP PN 10 / 16 / 25.

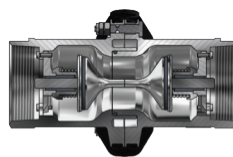
MAWP 150 / 300 psi

### Materials:

Aluminium, Brass, Stainless steel, Hastelloy, Titanium. Others on request.

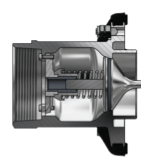
### Connections:

Female and Male BSP / NPT, flanged EN1092 (DIN), ANSI, TW and TTMA. Other on request.



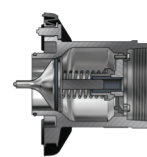
#### In service

The SBCoupling consists of two halves, each with a valve.



#### Released

After an emergency disconnection the SBCoupling separates and both vaults close immediately.





# SAFETY PRESSURE CAPS

Mann Tek® pressure caps, with built in pressure indicator, can be used as a second or third closure according to ADR/RID par 6.8.2.2.2. The pressure cap identifies a system pressure and keep this pressure until the problem can be safely resolved. Designed to maximize the environment- and operator safety.



## TECHNICAL INFORMATION

### Sizes:

2" (DN50) to 4" (DN100)

### Materials:

Stainless steel,

### Seals:

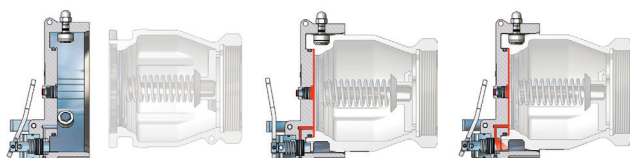
FPM/FKM (Viton®). Other materials on request.

### Maximum working pressure:

MWP PN 25 bar

MAWP 360 psi

## HOW IT WORKS



Press down the handle and any possible pressure is evacuated through a valve and the cap can be removed.



## About

Mann Tek is a Swedish manufacturer and supplier of Dry disconnect couplings® with experience of the industry for more than 20 years. We supply modern, easy to use, safe and time saving products. A environmentally safe system for both staff and its surroundings, which prevents a variety of hazards.

Our products are the obvious choice in harsh and demanding environments and where there's a need of a safe and spill free handling of fluids, gases and bulk powders. With more than twenty years of knowledge and experience in the offshore industry it has accumulated extensive expertise about applications in many types of variations in which our couplings have been, and can be used, with excellent results.



We constantly strive to develop and improve the performance and design of our products, to meet changes, new market demands and standards. Which, today, is what made us market leading.

Our couplings are the obvious choice when certifications and product approvals are required, anywhere in the world.

Mann Tek® is certified to ISO9001:2008 and the products are produced in accordance with several important standards, e.g. the NATO STANAG 3756

## Company Approvals



Mann-Tek is a certified ISO9001-company.

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