

**Mann**  
Tek

*Sweden*



# *Offshore & Marine*

**DDCouplings®**  
Dry Disconnect Couplings



**Swivels**  
Swivel Joints



**SBCouplings®**  
Safety Break-away Couplings





■ CEMENT  
■ BARYTES  
■ FUEL  
■ MUD  
■ BRINE  
■ BASE OIL  
■ DRILL WATER  
■ POTABLE WATER

NO SMOKING

TTS

# **DDCouplings**<sup>®</sup>

## **Dry Disconnect Couplings**

Dry Disconnect Couplings are available in sizes from ¾" up to 8" and in a wide range of materials and seals to be the given choice for almost any application.



## **Technical information**

### **Sizes**

¾" (DN20) to 8" (DN200)

### **Maximum Working pressure**

MWP PN 10 / 16 / 25 Bar

MAWP 150 / 300 psi

with 5 time safety factor

### **Materials**

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

### **Connections**

Female and Male BSP / NPT, flanged DIN and ANSI. Others on request.

Mann Tek Dry Disconnect Couplings are used for handling and transfer of liquids, gases and bulk powder in an economical, safe and environmental friendly way.

The self sealing design of the couplings guarantees both the highest level of safety and also the quickest way of connecting and disconnecting.

## **Applications**

- *Ship to rig transfer*
- *Ship to shore transfer*
- *On rig handling*
- *Container discharge*
- *Fuel bunkering*
- *Barge to ferry bunkering*

## **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.

# SBCouplings®

## Safety Break-away Couplings



### Marine and Offshore applications

- Ship to Rig Fluid Transfer
- Ship to Shore Fluid Transfer
- Ship to Ship Fluid Transfer
- Bunkering, Marine Refuelling

### Technical information

#### Sizes

1" (DN25) to 12" (DN300)

#### Maximum Working pressure:

MWP PN 10 / 16 / 25.

MAWP 150 / 300 psi

#### Materials

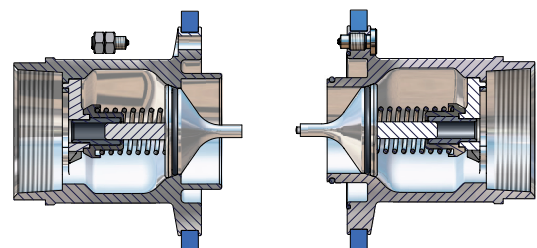
Aluminium, Brass, Stainless steel, Hastelloy, Titanium. Others on request.

#### Connections

Female and Male BSP / NPT, flanges DIN and ANSI. Others on request.

#### Function

Marine Safety Break-aways are designed to only release by inline pull and used between two strings of hose.



*Release by inline pull only.*

Safety Break-away couplings are used to prevent pull away accidents, the internal valves will close the flow in both lines and prevent unwanted release of product.

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.

### Marine Break-away coupling

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.

This coupling incorporates the same internal mechanism as our Industrial couplings, but has additional external features that provide increased resistance to torsional and bending moment forces which may be applied to the coupling, preventing premature activation in the unpredictable marine environment.

### 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 loss, positive shut-off of both coupling halves results in minimum product loss.
- Lightweight and robust design.
- Available with ANSI/DIN flanges or threaded (BSP or NPT).





# Swivels

## Swivel Joints

Mann Tek Swivels are used to enable free rotation of hoses, nozzles, fittings etc. when used with strings of hose, hose reels etc.



## Technical information

### Sizes

3/4" (DN20) to 10" (DN200)

### Maximum Working pressure

MWP PN 10-125 bar

MAWP 150-1800 psi

### Materials

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

### Connections

Female and Male BSP / NPT, flanged DIN and ANSI. Others on request.

### NOTE

*Please ask us for your special application.*

## Applications

- ▶ Offshore hose reels ship-to-shore
- ▶ Oil platform loading rigs
- ▶ Marine and industrial loading arms
- ▶ Hoses for road and rail tanker
- ▶ Chemical and petrochemical liquids and liquefied gases

## Use of Heavy Duty Swivel - double ball race

The swivel Heavy duty is designed especially for hose rails to load and unload products like Aliphatic and Aromatic hydrocarbons, Alcohols and Amines, Ether and Ester, Glycos and Water, Liquid Fertilizers, Acids and Lyes.

## Advantages

- ▶ **Low maintenance**  
Each unit consist of two body halves. Stainless Steel balls and a single spring assisted O-ring seal.
- ▶ **Compact external dimensions**
- ▶ **High flow rate / low pressure drop**
- ▶ **Full range of sizes, materials, seals and connections**
- ▶ **Minimal maintenance requirements**
- ▶ **Safety**  
Swivel function - allows the hose to relax to it's natural rest position whilst allowing freedom of movement without imparting torque stress at the point of connection - Torque stress is the largest single cause of Composite, PTFE and Stainless Steel convoluted hose failure.
- ▶ **Economical**  
Cost effective solution to prolong lifetime of hoseselines.

# About Mann Tek

Mann Teknik AB is a Swedish company located in Mariestad, Sweden.

Mann Teknik AB designs, manufactures and markets products for safe and environmentally friendly handling of aggressive fluids for the chemical and petrochemical industries.

The main product is the Dry Disconnect Couplings, DDCouplings®, for spill free liquid handling. The products are marketed through independent representatives in more than 30 countries.



## Company Approvals

Mann Teknik AB are certified to ISO9001:2008. The products are CE-labeled. The main products are certified to PED, the European Pressure Equipment Directive and ATEX, the European directive for Equipment intended for use in Potentially Explosive Atmospheres.

The products are produced in accordance with several important standards, e.g. the NATO STANAG 3756



# Kill the Spill

## Product and company information



## Approvals



ISO 9001, PED 97/23/EC, TDT, TÜV, Apragaz, FMV, Gost, ATEX e.t.c

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Mann-Tek is a certified ISO9001-company.