





# **OFFSHORE & MARINE**









# **DDCouplings**Bry Disconnect Couplings

Mann Tek Dry Disconnect Couplings® are designed for a safe and spill free handling in the offshore and marine 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 12" (DN300)

## Materials:

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

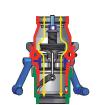
#### Seals:

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.

## **Applications**

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

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.

## **Applications**

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

# **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

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

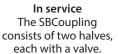
## Materials:

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.









## Released

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







## Swivels

## Swivel Joints

Mann Tek Swivels are used wherever a rotating system between two equipment parts is needed. The swivel enables free and slow rotation of hoses, nozzles and other fittings under the influence of internal pressure and/ or external stress such as traction and bending forces.



## TECHNICAL INFORMATION Sizes:

3/4" (DN20) to 10" (DN250)

### Materials:

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

## Seals:

FPM/FKM (Viton®), PUR (Vulkollan®) & PTFE (Teflon®). Other materials on request.

#### Maximum working pressure:

MWP PN 10-25 bar MAWP 150-360 psi

## Connections:

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



Heavy Duty Swivels - double ball race

## Use of Heavy Duty Swivel - double ball race

The heavy duty swivel 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
- Minimal maintenance requirements

## Safety

The 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 hoselines.

## **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

## **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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