



CHEMICAL

DDCouplings®
Dry Disconnect Couplings



SBCouplings®
Safety Break-away Couplings



Swivels
Swivel Joints



WABU 271259 3

HOYER

INTERNATIONAL BULK TRANSPORT

HAMBURG



DDCouplings®

Dry Disconnect Couplings

Designed for a spill free handling in the chemical industry in an economical, safe and environmentally friendly way. When handling hazardous or toxic media we know the importance of eliminating unwanted leakage and product loss.

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.

Our Dry Disconnect Couplings® can handle aggressive chemicals and acids and we guarantee the highest level of safety and quickest way of connecting and disconnecting.



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.



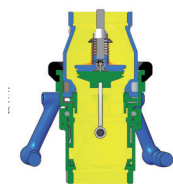
Maximum working pressure:

MWP PN 10 / 16 / 25 Bar

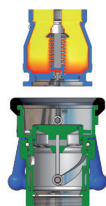
MAWP 150 / 300 psi

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

- Top- & bottom loading of tank trucks, ISO containers, railcars etc.
- Blending pits / mixing stations
- Internal plant handling
- Delivery coupling from tank truck to customer storage tank
- Sampling

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 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).

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 accidents. In case of a pull away incident, the two coupling halves will separate and immediately close the flow in both halves and directions and therefor prevent accidents and unwanted spillage of product. The industrial type is installed at fixed points like manifolds, pipelines and depots where as the marine type is installed in the middle of the hose string.

SBC® is the perfect choice to use in combination with DDC®/DGC® for a higher safety level of your transfer system.



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.

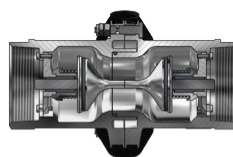
MAWP 150 / 300 psi

Materials:

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

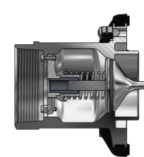
Connections:

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



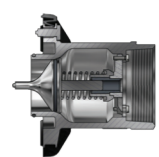
In service

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



Released

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







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:

¾" (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**
- **Full range of sizes, materials, seals and connections**
- **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 hoses.

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. Our products are the obvious choice where there is a highly aggressive environment and a demand for a clean, safe and spill free handling of fluids, gases and bulk powders. We meet the demand for a quick, easy and safe operation in these harsh environments.

With more than 20 years of knowledge and experience in the chemical industry we have 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.

Company Approvals



Mann-Tek is a certified ISO9001-company.

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