

Sweden



AVIATION













DACOUPLINGS ® Dry Aviation Couplings

Dry Aviation Couplings are designed for use in aviation refueling systems. All units can be used as bottom loading or for primary points refuelling vehicles. Mann Teks DAC is cost effective in many standings and with several benefits; such as light weighted and easy to handle.



TECHNICAL INFORMATION

Sizes:

2½" (DN65)

Materials:

Aluminium, Stainless steel, others on request.

Seals:

FPM/FKM (Viton®), other materials on request.

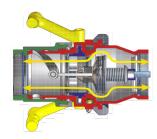
Maximum working pressure:

MWP PN 10 bar MAWP 150 psi

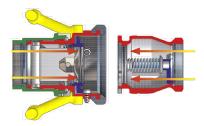
Connections:

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

To connectPush and turn it's coupled with full flow



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



Advantages

- No brass or bronze is in contact with media.
- Ensures spill free connections of the media during loading and unloading tank trucks, rail tankers and tank containers.
- Minimization of spillage and product loss keeps the environment free from hazardous vapors and liquids.
- "Easy to Use" Quick connections saves time and money.
- Reliability and easy servicing saves your investment.
- Approvals according to the European Directives PED and ATEX and the international requirements ADR.

Compability

ISO45, MS24484, NATO STANAG 3105, British Aerospace Specification 2C14

OptionsFilter strainer



The filter strainer is designed to adapt to the Dry Aviation coupling according to the ISO45 standard. The integrated sight glass makes it easy to determine when the filter needs to be cleaned. Easy servicing is guaranteed by a bayonet connection.

The Filter Strainers are available with 2½" BSP/NPT and 3" BSP/NPT connections.

There are 3 different filter types: 45, 60 or 100 mesh.

Drain connection

Use Mann-Tek ISO45 with Drain connection for easy draining and sampling of your system.



ISO 45 Dry Aviation Coupling

Hose unit with ground connection cable





Hydrant sampling, vent & drain unit



TECHNICAL INFORMATION

Sizes:

1½" - 2" (DN40 & DN50)

Materials:

Tank unit: Stainless steel and carbon steel Ball valve: Stainless steel and carbon steel

Flange: Stainless Steel

Maximum working pressure:

MWP PN 25 Bar MAWP 300 psi

Connections:

Flange ANSI and DIN, others on request.

Adavantages

- No brass or bronze is in contact with media.
- "Easy to Use" design saves time and minimizes health risks.
- **Relibilty** and easy servicing saves your investment.
- Approved for safe handling by independent "Notified Body".
- Connection by 70 mm dry disconnect coupling acc. to STANAG 3756.
- Dry disconnect coupling equipped with built in pressure relief and bleeding valve function.

Applications

- Sampling
 Installed at a convenient point on a riser from the main hydrant line.
- Venting Installed at a high point in the hydrant line.
- Draining
 Installed at a low point in the hydrant line.

Advantages

- No brass or bronze is in contact with media.
- 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.

DDCouplings ® Dry Disconnect Couplings

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



TECHNICAL INFORMATION

Size:

3/4" (DN 20) to 8" (DN200).

Materials:

Aluminium, Brass/Gunmetal, Stainless Steel, Hastelloy C and PEEK. Other materials on request.

Seals:

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

Maximum working pressure:

MWP PN 10 / 16 / 25. 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.

Electrical conductivity:

All DDCouplings® have electrical conductivity (<10 ohms).

Interchangeability:

Compatibility with other existing brands according to NATO STANAG 3756.



To connectPush and turn it's coupled with full flow



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





Options



De- & anti-icing

The anti- and de-icing process is using dry or liquid chemicals, for example salts, salt solutions, alcohol or glycols and Mann Tek DDCouplings is specifically designed to handle this type of chemicals. We provide a quick and spill free handling, as wanted and recommended in these tough and demanding environments.

SBCouplings®

Safety Break-away Couplings

Mann Teks 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)

Materials:

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

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

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 .

Industrial Break-away couplings

Are used in all industrial product transfer installations.

They are specifically designed to be able to activate with a tensile force being applied at an angle to the plane of the coupling housing, up to 90 degrees.

Typically installed into loading arm and hose assemblies, where at least one side of the coupling is attached to a rigid and a fixed point.

Advantages

- No brass or bronze is in contact with media.
- 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.

Advantages

- No brass or bronze is in contact with media.
- Unflattened flanges do not affect the balls torque.
- Low pressure drop.
- Easy to serve: The spindle can easily be dismounted, even if the ball valve is installed.
- The valve is assembled as one unit
 not kept together by the flanges.
- Inbuilt measurements as common standard.

Applications

- Petroleum Tank trucks
- Tank trucks for solvents
- Dispenser and Tank trucks for aircraft refueling
- Stationary and mobil equipment for aircraft refuelling
- Loading Aviation refueller

FFBall Valves

Full Flow Ball Valves

Mann Teks Full flow ball valves with one way or two way ball valves are specially designed for handling different types of fuels in tank trucks. The product is made out of aluminium which offer a weight saving benefits to the road tanker industry and assembled as one product with built in measurement as common standard.

All valves are available with pneumatic actuation in either single or double acting form.



TECHNICAL INFORMATION

Sizes:

2" (DN 50) to 4" (DN 100)

Materials:

Body: Aluminium
Ball: Aluminium
Spindle: Stainless Steel

Seals:

EPDM, FFKM (Chemraz®, Kalrez®), HNBR, NBR (Nitrile) and EFDM. Other materials on request.

Maximum working pressure:

MWP PN 10 bar MAWP 150 psi

Connections:

Female and Male BSP / NPT, flanged EN1092 (DIN), ANSI, TW, TTMA and welding ends. Flanges are available in aluminium, stainless steel and carbon steel. Other on request.



Swivel Joints

Mann Teks Swivels are used wherever a rotating system between two equipment parts is needed. The swivels 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 and TTMA.
Other on request.



Advantages

 No brass or bronze is in contact with media.

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 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 Aviation 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 ISO 45 / MS24484 / NATO STANAG 3105 / British Aerospace specification 2C14, NATO STANAG 3756.

Company Approvals





Mann-Tek is a certified ISO9001-company.

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