



DRIPLEX
ENGITECH



Driplex engineering is part of a group which has a proud 60 year legacy in the field of engineering within the fluid transfer industry. We have the expertise and commitment to manufacture the perfectly engineered Drybreak Couplings & BreakAway Couplings.

Driplex Drybreak Couplings are an internationally recognised and preferred hose/loading arm connection mechanism which acts as an NRV to seal off both the hose/loading arm and the fixed pipeline end after disconnection.

Our couplings are robustly designed and immaculately engineered for applications ranging from water, oil to extremely aggressive chemicals and gasses.

- Single Operation Couplings
- Automatic NRV's Open & Close at both ends
- Ergonomic Design
- Built in Swivel



Interchangeable with other Makes •

Ready Stock •

Quick & Easy to Operate •

Low Maintenance •



Driplex Drybreak Couplings are categorically required when your service media is:

- ▶ Unsafe for the environment and human personnel around
- ▶ Expensive
- ▶ Difficult to clean in case of leakages

How It Works

Attached on the
Hose/Loading Arm,
also known as :
Coupler or
Female Coupling



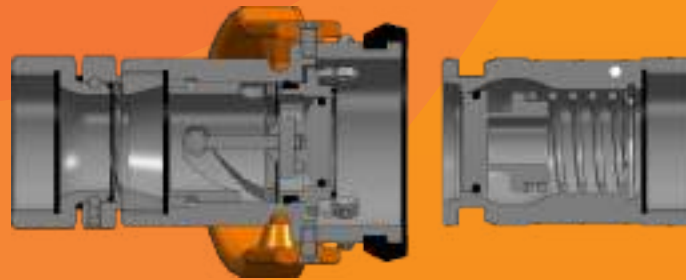
Hose Unit



Tank Unit

Attached on the
Manifold,
also known as :
Adaptor or
Male Coupling

Before Operation



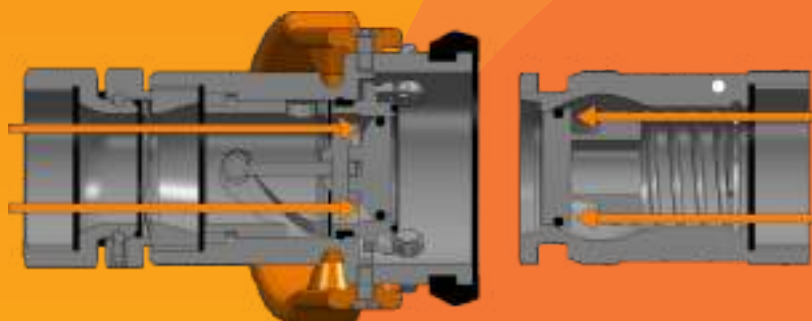
During Operation

Flow can be in
Any Direction



After Operation

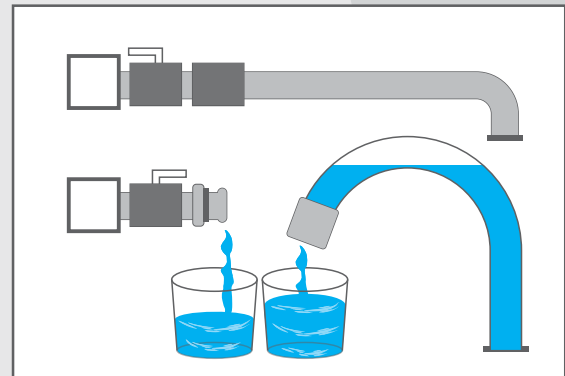
Automatic
Sealing on
Disconnection



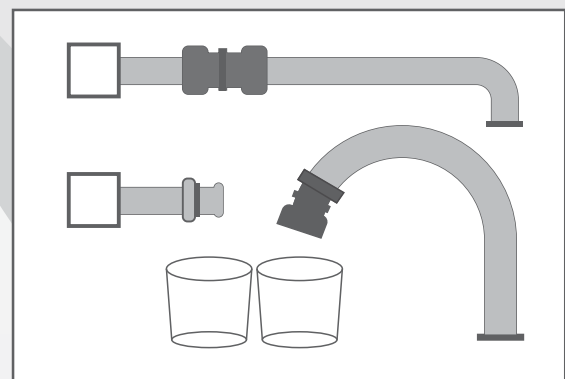
Why use Driplex Drybreak Couplings (DDC)

- **Increases Safety:**
DDC's have a mechanically operated valve design which eliminates the chances of spillage. This in turn increases human and environmental safety.
- **No Loss of Media:**
These couplings are technologically advanced which does not allow the transfer fluid to leak on disconnection, resulting into loss of media. Eliminating the use of drain buckets.
- **Easy To Operate:**
There is an inbuilt swivel, hence only the handles need to be rotated. The valves open and shut automatically.
- **Flow rate:**
Ergonomically designed couplings for excellent flow rates.

Operation without Driplex Coupling



Operation with Driplex Coupling



Application Areas



CHEMICAL



REFINERY



TRACK & RAIL WAGON



JETTY



LUBE



BUNKERING



TANK FARM



OFFSHORE

Driplex Drybreak Coupling (DDC)

Specially designed couplings for transfer of liquids including Oil, Water, Organic & Inorganic chemicals.

Size Range : ¾ inch to 6 inch

Material of Couplings : Stainless Steel, Aluminium, Bronze and Hastelloy (C276)

Seals : FKM (Viton®), NBR (Nitrile), EPDM, Chemraz®, Kalrez®.

End Connections : Threaded – BSP, NPT, ISO
Flange – ANSI, ASME, ISO, DIN, TTMA

Working Pressure : 10 bar - 25 bar

Safety Factor : 5:1

Compatibility : NATO STANAG 3756.

Standard : As per EN 13480 & EN 13445

Options Available:

- Locking arrangement on hose units for added safety
- Selectivity pin option for avoiding cross contamination
- Dust Caps and Dust Plugs available
- Colour coded adaptors
- Handles with different colours
- Round handles



Viton® and Kalrez® is registered trademarks of DuPont Performance Elastomers.
Chemraz® is a registered trademark of Green-Tweed.

Driplex Drybreak Coupling – Gas (DDC – Gas)

Specially designed couplings with internals specially engineered to handle transfer of LPG products such as Propane and Butane in Liquid and Vapour lines.

Perfectly interchangeable with TODO Gas® and Mann-Tek Dry Gas Couplings®

Size Range	:	¾ inch to 3 inch
Material of Couplings	:	Stainless Steel
Seals	:	FKM (Viton®)
End Connections	:	Threaded – BSP, NPT, ISO Flange – ANSI, ASME, ISO, DIN
Working Pressure	:	25 bar
Safety Factor	:	6:1
Standard	:	As per EN 13175, EN 13480 & EN 13445

Options Available:

- Locking Arrangement on Hose Units for added safety
- Pressure Equalizing Valve option for Adaptors
- Colour Coded Adaptors for liquid and vapour line
- Handles with different colours for liquid and vapour line
- Round Handles



BreakAway Couplings

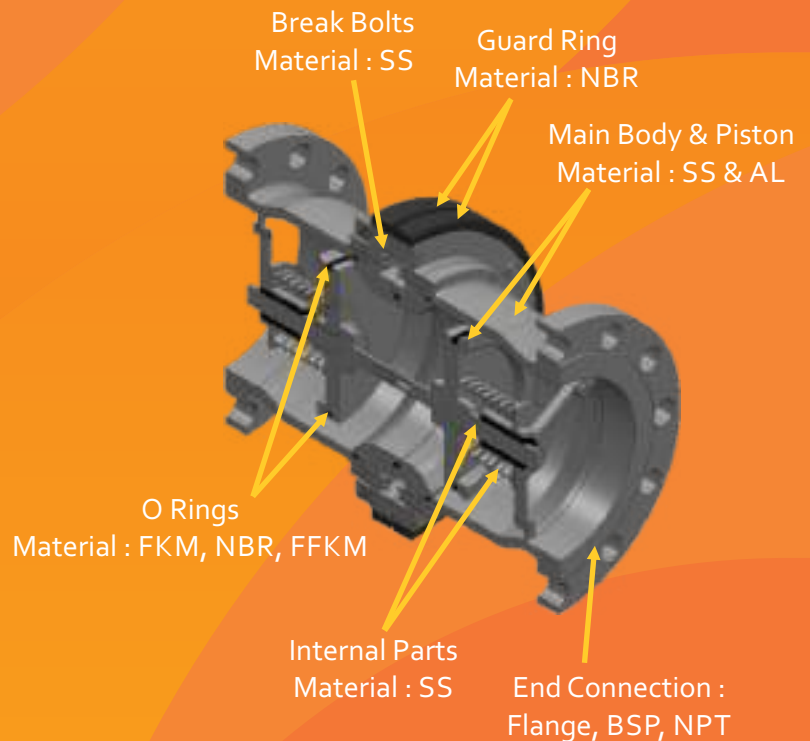
DRIPLEX provides safety solutions to suit Loading Arms and Hoses when subjected to unwarranted load caused by drive away and pull incidents. DRIPLEX Safety BreakAway couplings are engineered to prevent and reduced spillage.

Breakaway acts as the weakest link in the transfer system. Hence before the hose gets ruptured or the loading arms break these couplings Break stopping the flow of the service media. This eliminates the risk of spillages or any other major accidents.



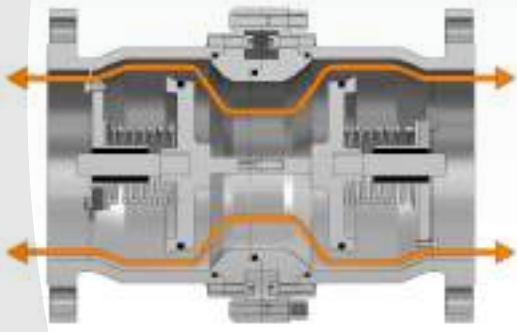
Technical Data:

Size Range	: 2" to 12"
Material of Couplings	: Stainless Steel, Aluminum, Hastelloy or any other material on request.
Seals	: FKM (Viton®), NBR (Nitrile), EPDM or any other fluoroelastomer material on request.
End Connection	: Threaded - BSP, NPT, ISO Flange - ANSI, ASME, ISO, DIN, TTMA
Working Pressure	: up to 40 Bar
Temperature Range	: -20°C to 150°C

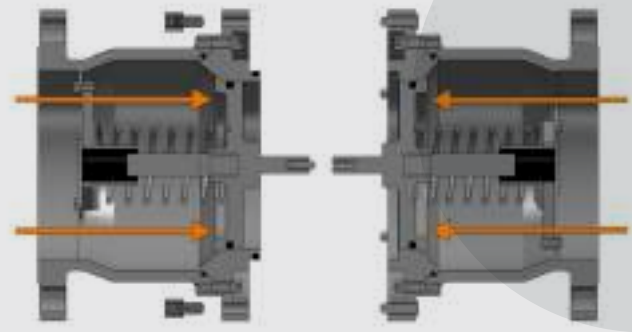


DRIPLEX Break-Away is a high-performance safety product which provides the best flow rate. They can be easily handled, are lightweight and of smaller design.





Flow position under normal operation:
The coupling consists of two halves, each with a valve (piston) which is open.



Break position during an incident:
During separation the pin breaks and the spring-loaded valves (pistons) instantly closes and the flow stops.

Under normal circumstances the BreakAway is in Flow position and the liquid or gas can transfer smoothly. The male and female couplings are sealed from the pistons ensuring no leakages.

When there is a sudden excessive load on the couplings due to a pull or a drive away incident, the break pins break. These break pins are designed to break at a pre calculated load.

Once the break pins break, the coupling male and female isolate, instantaneously the valves (pistons) on the couplings close due to the spring. This leads to stoppage of the flow path for the media with minimal spillage.

DRIPLEX BreakAways can be easily reset with a new set of break pins and o-rings need to be changed.





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