

DGC & DCC

Our Dry Gas Coupling (LPG) and Dry Cryogenic Coupling (LNG) are a further development of our Dry Disconnect Coupling that has been used in decades in the chemical and petrochemical industry. This is the reason why we based our gas handling quick connectors on the same mechanical principle.

There is no other coupling principle that has a longer track record in the industrial field showing a more reliable and robust functionality combined with an absolute

minimum of product loss during connection and disconnection.

The coupling design will eliminate spills to the environment and operators at the same time as it saves money. In many applications the coupling will have a financial pay-off time in a few months. The connection and disconnection is made in seconds which is beneficial to the user and the environment but also makes it possible to disconnect in case of emergency.

DRY GAS COUPLING

Dry Gas Coupling (DGC) is primarily designed for handling LPG or other gases (liquified or in gas phase) at a temperature range down to -50 C. The Dry Gas Coupling is designed to make connections and disconnections at a higher pressure - up to 28 bar (1" to 3").

With our DGC there is no need to empty the hose line or loading arm between fillings, so

the product could remain in liquified phase. This also makes a wet hose concept possible which makes the filling volumes easier to measure. The Dry Gas Couplings are produced in sizes from 1" to 8", housing material is stainless steel and the standard sealings is FKM-low temp which makes them suitable for all different qualities of the LPG and temperatures.

DRY CRYOGENIC COUPLING

Dry Cryogenic Coupling is mostly used for handling LNG but could also be used handling other cryogenic media down to a temperature of -196 C. Also, this type will have the same benefits as all of our Dry Disconnect Couplings with no spill during connections and disconnections and it only takes seconds to connect or break

the hose lines. As both valves close when disconnecting the couplings, there is no necessity to purge or strip the hose line before disconnection. The Dry Cryogenic Couplings are produced in sizes from 1" to 8", the material is stainless steel and the seals are made of PTFE.



OUR SOLUTION RANGE

DGC – Dry Gas Couplings

DCC – Dry Cryogenic Couplings

SBC – Safety Break-away Couplings for LPG

CBC – Cryogenic Break-away Couplings for LNG

DCC Dry Cryogenic Couplings

DCCs, Dry Cryogenic Couplings, employ the same design principles as our Dry Disconnect Couplings, which have been in use for more than 25 years. Our Dry Cryogenic Couplings have been tested under cryogenic conditions by connecting and disconnecting over 10,000 cycles. With more than 25,000 LNG transfers having been completed using Manntek DCCs, they are considered by operators worldwide to be the safest in the market. These couplings are used for ship to ship transfer, LNG Bunkering, marine applications, filling tank trucks and LNG containers. The proven self-sealing valve design enables quick connection and disconnection while protecting operators, the environment and equipment from dangerous liquids and vapours. The Manntek DCC is designed to be compliant with both ISO 18683 and the new ISO 21593.

+ Key benefits

TIME SAVING Connect or disconnect hoses and pipelines in seconds. No need for retightening during cool down face. Wet disconnect possible. No need for draining during connection.

EASY TO HANDLE Push and turn - free flow. Turn and pull - closed.

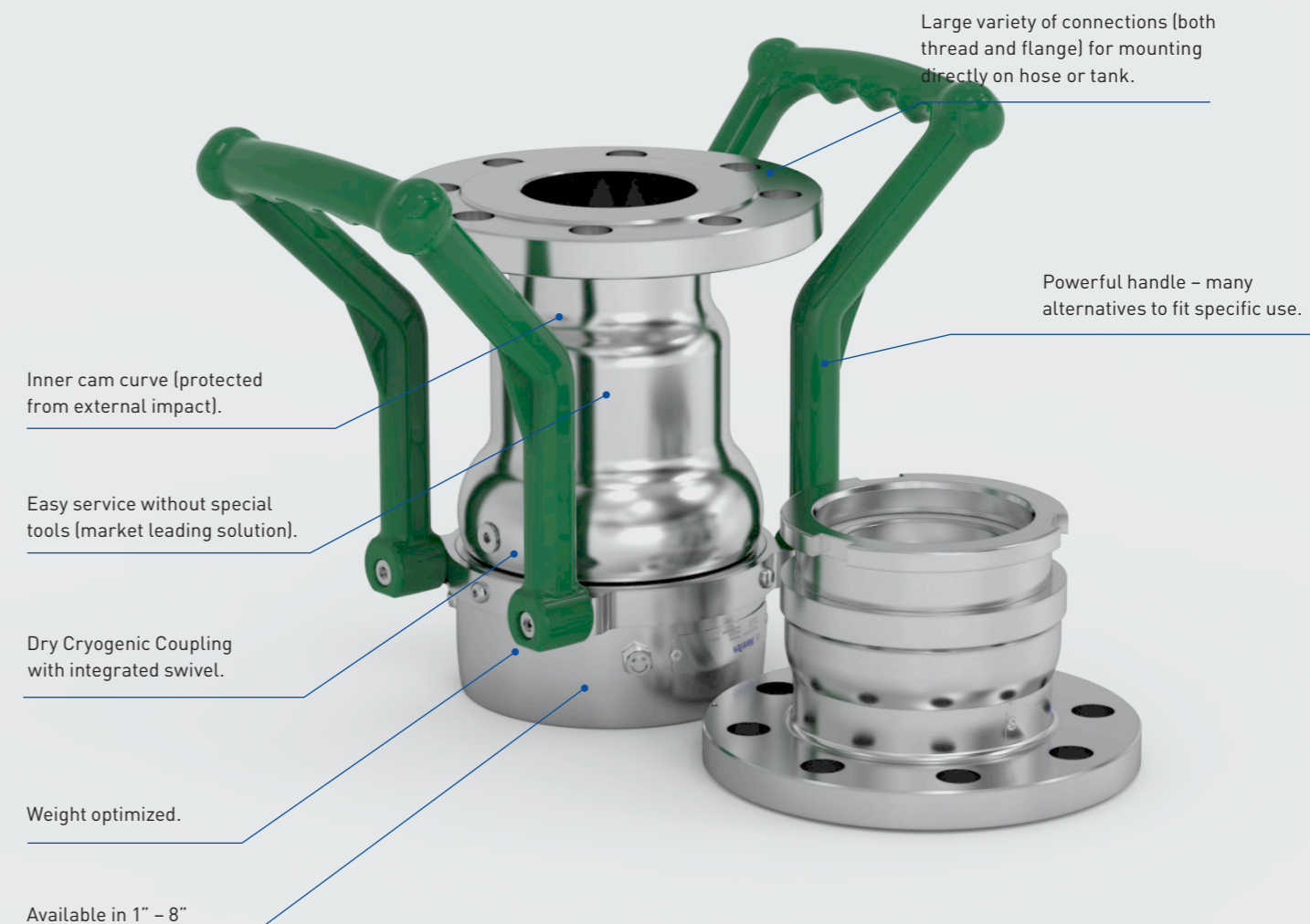
SAFE The valve cannot be opened until the unit is coupled and closes automatically when disconnecting.

ENVIRONMENTALLY FRIENDLY Accidental spillage eliminated.

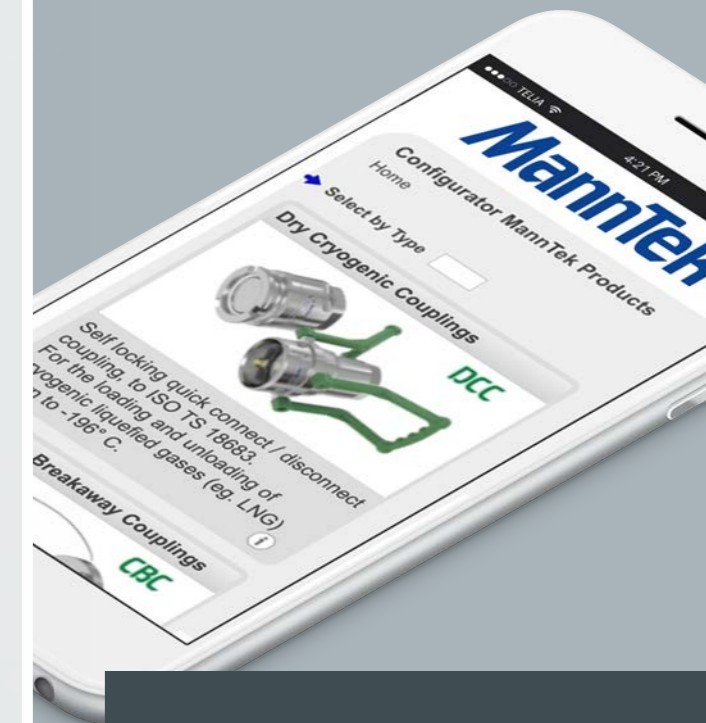
RELIABILITY No loss or spillage of liquids on connection or disconnection.

Applications

- Container discharge
- Fuel bunkering
- Loading/unloading of tank trucks, rail tankers, bunkering and tank vessels
- Vapor recovery lines



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