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# MARINE LOADING SYSTEMS

## Coupler Range



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**EMCO WHEATON**

A Gardner Denver Product

RAIL

MARINE

## Emco Wheaton

Emco Wheaton is the global leader in the design and manufacture of systems for the bulk loading and unloading of almost any liquid and compressed gas.

With state-of-the-art manufacturing, research and development facilities, 24/7 on-call service teams and certified quality assurance, as well as representation in over 80 countries worldwide, Emco Wheaton offers a service which is second to none.

Utilising over 60 years' experience of designing and manufacturing loading arms, Emco Wheaton has developed a range of technically advanced solutions to suit virtually every application and meet the demands of its growing global customer base.

As well as an extensive range of marine loading arms, Emco Wheaton provides safety access equipment, fueling systems, storage tank equipment and earth grounding systems.



## Marine Loading Arms

Emco Wheaton designs and manufactures an extensive range of Marine Loading Arms to ensure the safe transfer of liquids and gases from river barges, ships and super tankers.

To ensure the highest safety standards, Emco Wheaton's self-supporting Marine Loading Arms incorporate a rigid link pantograph balancing system – with independent counterweights linked to the inboard and outboard arm. This ensures accurate balance throughout all manoeuvring and connecting positions.

Marine Loading Arms meet the requirements of OCIMF (Third Edition 1999) and EN 1474-1: 2009-03 for LNG.

## Marine Loading Arm Couplers

Emco Wheaton offers the most comprehensive selection of fluid transfer products in the market, including a range of Marine Loading Arm QC/DC (Quick Connect/Disconnect) Couplers.

The company's Marine Loading Arm Couplers – Manual, Standard Hydraulic and High-Pressure Hydraulic – have been successfully used in some of the most challenging and demanding environments, gaining global approval and recommendations from the world's major oil companies.

## Manual QC/DC Couplers

The Manual QC/DC is fitted to the loading arm at the end of the triple swivel assembly (TSA) and its features include:

- Pressure rating: up to 300 lbs
- Sizes: 6" to 16"
- ASTM Carbon steel, Stainless Steel, LT Carbon Steel, zinc coated
- Operating temperature: -46° C to +70° C
- Manual operation of independent cams
- Vibration tested
- Elastomer O-Ring for sealing between coupler and manifold flange



## Standard Hydraulic QC/DC Couplers

The hydraulic QC/DC is fitted to the loading arm at the end of the triple swivel assembly (TSA) and its features include:

- Pressure rating: 150 lbs and 300 lbs
- Sizes: 8" to 16"
- ASTM Carbon steel
- Operating temperature: -30° C to +70° C
- Simultaneous operation, self-locking clamping discs
- Coupler remains fastened to tanker manifold in case of hydraulic power failure
- QC/DC can be opened manually
- Clamping discs and mechanical parts are made from high-yield strength steel
- Elastomer O-Ring for sealing between coupler and manifold flange



## High-Pressure Hydraulic QC/DC Couplers

The hydraulic High Pressure QC/DC is fitted to the loading arm at the end of the triple swivel assembly (TSA) and its features include:

- Pressure rating: 900 lbs and higher
- Sizes: 6" to 16"
- ASTM High Tensile strength carbon steel
- Operating temperature: -29° C to +70° C
- Simultaneous operation clamping claws
- Coupler remains fastened to tanker manifold in case of hydraulic power failure
- QC/DC can be opened manually using a manual hand-pump
- Two energized seals are provided for sealing between coupler and manifold flange
- Leak detection port between coupler seals
- Can be used as an emergency shutdown device

