

**EMCO WHEATON**

*A Gardner Denver Product*

# Marine Loading Systems

**COUPLER RANGE**



*Better by  
Design*

## Emco Wheaton

When it comes to the safe transfer of liquids, you can rely on the expertise of Emco Wheaton, a recognized global leader in the design and manufacture of solutions for bulk loading and unloading of liquids and gasses.

The organization has representation in over 80 countries around the globe. State of the art manufacturing, research and development facilities, certified quality assurance, 24/7 on-call service teams and preventative maintenance programs all combine to provide customers with first-class service, when they need it and where they need it.

A fundamental appreciation of both market and customer needs – listening to the voice of the customer - provides the basis upon which quality products and services are scoped, designed and brought to market, ensuring that quality is in-built at the earliest stage of the product development cycle.

Emco Wheaton has been designing and manufacturing loading arms for over 60 years. Our focus on meeting the specific needs of our demanding customer base has resulted in us being able to offer technically advanced solutions to suit almost any application the world can throw at us.

In addition to loading arms, the company provides a range of safety access equipment, fuelling equipment and earth grounding systems.

## Marine Loading Arms

At Emco Wheaton, we design and manufacture a wide range of Marine Loading Arms to load and unload the broadest range of both liquids and compressed gasses from river barges, ships and ocean going super tankers.

Emco Wheaton Marine Arms incorporate a rigid link pantograph balancing system with independent counterweights directly linked to the inboard and outboard arm. This ensures accurate balance throughout all manoeuvring and connecting positions.

The self-supporting design provides not only high safety standards for easy operation, but also lowest possible jetty loads which minimize the cost for the jetty itself.

Our loading arms meet the requirements of OCIMF (Third Edition 1999) and EN 1474-1: 2009-03 for LNG.



## Marine Loading Arm Accessories - Couplers

Emco Wheaton is by nature a highly innovative business and as such has recently added to its range of Marine Loading Arm QC/DC (Quick Connect/Disconnect) Couplers, giving it the most comprehensive range of products available in the market today. Quality coupled with the pursuit of perfection continues to raise the technology bar at Emco Wheaton.

Our couplers are approved world-wide and recommended by the world's major oil companies, operating in some of the world's most demanding environments.



## 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 & 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
- Both – clamping-discs & mechanical parts are made from high yield strength steel
- Elastomer O-Ring for sealing between coupler & 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 & manifold flange
- Leak detection port between coupler seals
- Can be used as an emergency shut down device

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