



### Design Standards

EN 1474  
ISO 16904:2013  
OCIMF '99  
CE (PED and ATEX)

### Transportation Methods

Modular Design for containerized  
Fully assembled by truck  
Fully assembled by ship

### Marine Loading Arms

EcoPro  
HydroTec  
CryoTec  
GasTec

### Accessories

Swivel Joints  
QC/DC  
Emergency Release System  
Hydraulic Power Unit  
Control system

## CryoTec Marine Loading Arm

The CryoTec is specifically designed for Cryogenic applications, e.g.: Ethylene and LNG

Available from 6" up to 20"

Suitable for all liquids and gases between -196 and + 200°C

### Key features

- Hydraulic operation with smart hydraulic mechanism
- Cable free design with adjustable balancing link
- Supported structure
- Only six swivel joints required with minimal jetty loads.
- Cartridge type swivel joints
- Nitrogen dried swivel joints
- Double Ultra High Molecular weight PE Seal
- Static back-up seal
- Modular design suitable for container shipment
- 10 year guarantee

### Technical Details

- Hydraulically operated
- Dedicated hydraulic solenoid valves for each Marine Loading Arm
- Completely balanced
- 6" up to 20"
- - 196 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases. Especially cryogenic applications
- 150# and 300#
- Available in all Stainless Steel and Stainless Steel 316Ti.

### Accessories

- Powered Emergency Release Coupler
- Quick Connect / Disconnect Coupler (with two-phase-safety-connection)
- Radio & wired Remote Control operation
- Range monitoring alarm
- Ice fall off protection
- Additional drive for Triple Swivel Assembly rotation.
- Support Jack bent towards ship manifold
- Vapour return line
- Maintenance platforms & access ladders
- Drains, purge and instrument nozzles
- Purge and stripping lines
- Level & pressure transmitters
- Isolation flange
- Heat tracing and thermal insulation.
- Hydraulic power units
- Control Panels, including SIL Level