



### Design Standards

OCIMF '99  
TA Lüft VDI 2440  
CE (PED & ATEX)

### Transportation Methods

Modular Design for containerized transport  
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

## HydroTec Marine Loading Arm

The HydroTec is hydraulically operated

Available in diameters ranging from 6" to 20", suitable for all liquids & gases between -50 °C and +200 °C

### Key features

- Cable free design with adjustable balancing link
- Fully hardened replaceable cartridge swivel ball races
- Support jack bent towards ship manifold
- Vacuum resistant block seals with zero emission
- Self supported, lightweight design
- Only six swivel joints required
- Minimum pressure drop
- Operator friendly locking system
- Modular design suitable for container shipment
- 10 year guarantee

### Technical Details

- Hydraulically operated
- Dedicated hydraulic solenoid valves for each Marine Loading Arm
- Completely balanced, in empty or full condition 6" up to 20"
  - - 50 °C / + 200 °C
- Suitable for all (petro-) chemicals, liquids and gases.
- 150# and 300#
- Available in all materials, e.g.: Carbon Steel, 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
- Support Jack bent towards ship manifold
- Vapour return line, rigid or flexible
- Easy seal replacement
- Maintenance platforms & access ladders
- Drains, purge and instrument nozzles
- Purge and stripping lines
- Vacuum breaker
- Level & pressure transmitters
- Isolation flange
- Heat tracing and thermal insulation.
- Hydraulic power units
- Control Panels, including SIL Level.