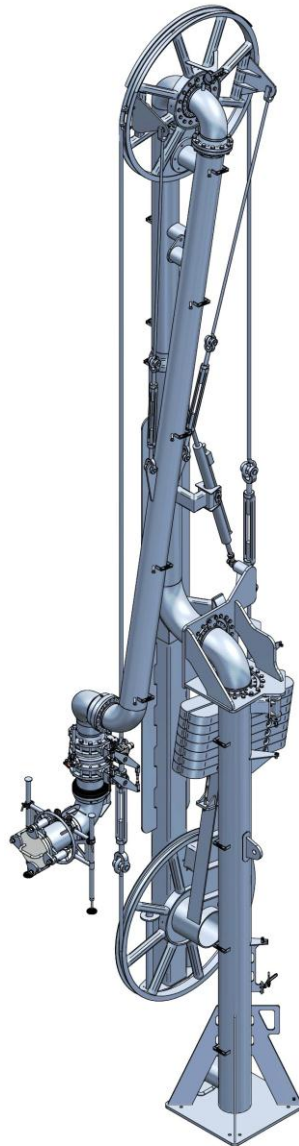


## MINERVA – marine loading arm

### General description:

With its self-supporting piping construction the MINERVA marine loading arm situates itself in the middle segment of the marine loading arms. Both manual as hydraulic operated it serves medium to large operating ranges.



## MINERVA – marine loading arm

### Features:

- Nominal bores from DN150-DN300 (6"-12")
- Pressure range: 40 bar
- Temperature range: -196°C to + 250°C
- Balancing: counterweights by means of pantograph cable
- Small dead weight
- Self-supporting pipe structure
- Product pipe available in carbon steel, stainless steel, low temperature carbon steel or special alloys
- Manual operation
- Separate ball bearings
- High pressure, swivel joints model 3-2ST which allow easy exchange of seals without dismantling loading equipment and without auxiliary equipment required.
- Mechanical locking
- Small space requirements.
- Can be shipped fully assembled, ready to install

### Options:

- Lining, heating and insulation available
- Hydraulic operation
- Emergency release coupler (ERC)
- Quick Connect Disconnect coupler, hydraulic or manual operated (QCDC)
- Remote control (hardwired or radio remote)
- Piggable
- Piggyback vapour return
- Mobile loading arm on platform