





MarFlex Deepwell Pump Double (MDPD)

The MarFlex deepwell cargo pump is a vertical single-stage centrifugal pump powered by an electric motor and robustly constructed to efficiently empty any cargo tank.

The size and design of the pumps depend on capacity (m³/hr) and head (mlc), s.g. and viscosity. In the 'DOUBLE' design of the MarFlex

Deepwell Pump, the drive shaft is in a separate pipe next to the discharge pipe.

The deepwell pump has four main sections:

- The electric motor (located on deck)
- Deck arrangement (including top cover and deck trunk)
- Pipe stack (located in the tank)
- Pump head (located in the tank) seal, which is able to withstand more pressure. The seal is easily replaced meaning that maintenance is simply achieved.

The MarFlex deepwell cargo pump is suitable for cargoes up to 100 °C. Special options are available for arctic conditions down to -50 °C. The pumps, including E-motors, are ATEX (ATmosphères EXplosibles) certified.

Types of cargo

The Marflex deepwell cargo pump can handle different types of cargo, e.g., oil products (produce oils and industrial oils) and different kinds of chemicals.

Materials used

All our cargo pumps are standard made with stainless steel A316L. However, due to the different kinds of cargoes that our pumps can handle, we can also supply other materials such as Duplex steel and Super Duplex steel. The MDPD can come equipped with a mechanical seal, which is able to withstand more pressure. The seal is easily replaced meaning that maintenance is simply achieved.

The benefits of the MarFlex Deepwell pump:

- Total system efficiency is approximately 20% higher compared to a hydraulic-driven system
- Low noise levels
- Easy and quick installation and commissioning thanks to the electrical drive
- Robust and straightforward AC motor
- Clean system (no potential leaking of oil on deck)
- Less maintenance
- The pump bearings will never run dry because of the oil-lubricated shaft
- The pump can run at relatively high speeds because of the oil-lubricated shaft and bearings
- No shaft alignment problems
- Fixed coupling between the shaft of the drive motor and the driveshaft
- Usage of MarFlex electrical drive (VSIDS) gives the opportunity of gathering process information and reporting functionality

Contact for more information

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