



The MarFlex Offshore Deepwell cargo pump is a vertical single-stage centrifugal pump powered by an electric motor and robustly constructed to efficiently empty any offshore FPSO tank. This pump is designed according to API-610, the highest offshore standard.

The MODP is installed inside the tank of an FPSO or FSO unit in order for their liquid cargo to be discharged from the platform to a shuttle tanker.

### **The deepwell pump has four main sections:**

- Deck arrangement (including top cover and deck trunk)
- Pipe stack (located in the tank)
- Pump head (located in the tank)

The MarFlex deepwell cargo pump is suitable for cargoes from -15°C 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 MODP is typically used to pump crude oil to and from shore.

### **Materials used**

All our offshore 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 MODP comes equipped with a mechanical seal, which is able to withstand more pressure. The seal is easily replaced meaning that maintenance is simply achieved. The results can be shared with your MarFlex Service Manager, who will keep track of the conditions and inform you when it is time to change the lip seals.

### **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 (VSDS) gives the opportunity of gathering process information and reporting functionality

### **Contact for more information**

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