



Variable Speed Drive System (VSIDS)

The MarFlex Variable Speed Drive System (VSIDS) is designed to be the perfect companion to the MarFlex electric deepwell pumps.

Tailor-made software in the VSIDS's PLC and frequency converters ensure precise and individual speed control of the pumps enabling them to perform any discharge scenario for a wide range of liquid cargos with different viscosities and densities.

The VSIDS has been designed giving the highest priority to safety, system efficiency and flexibility. The frequency converters deliver the actual power needed without any inrush currents, thereby reducing the mechanical wear and cavitation to a minimum. Depending on specific requirements, MarFlex can deliver either an air or a water cooled VSIDS.

In its most basic form the VSIDS is designed for remote and local pump control via one or more touch panels, together with an optional pump control desk, PLC, frequency converters and a custom-built contactor matrix to drive pumps. The system interacts and communicates with other third party systems onboard to provide a reliable and safe means of complete cargo loading and unloading operations.

The optional Remote Access function allows MarFlex service engineers to remotely monitor the VSIDS components individually, to measure performance parameters, and to analyse any malfunctions.