DESMI Cargo Pumps

Deepwell Cargo Pumps for LPG, LEG, Chemical and CO_2 Tankers

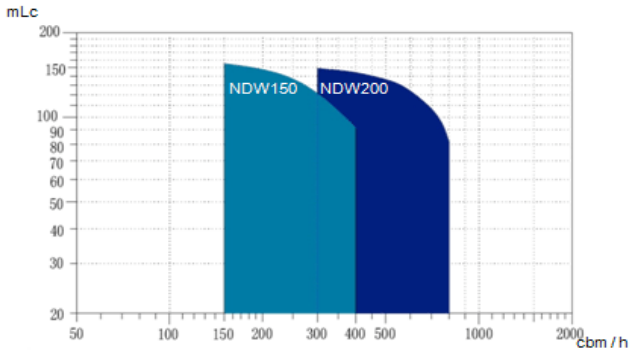
PROVEN TECHNOLOGY

DESMI

Deepwell pumps

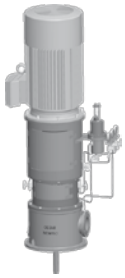
The NDW pumps from DESMI are energy efficient and well proven for pumping every media from LPG, to LEG over a wide range of chemicals, through to CO_2. The pump consists of three main components: base arrangement, pipe and pump cylinder. The cylinder is designed with a variable number of impellers and casings to meet the required head and capacity. The pipe stack consists of a number of intermediate pipes in which the cargo is transported to the outlet flange of the base arrangement. The intermediate shaft, which drives the impellers, is placed in the centre of the pipe stack. The shaft is supported by guide bearings for each 1.2 metres, which is also the length of the intermediate pipes in the pipe stack. The bearings are made of carbon and are lubricated by the cargo.

The NDW pumps are available in two sizes and the diagram guides you to the correct choice.



Base Arrangement

- Flanges as "Industry Standard"
- Known techniques for critical parts
- Designed for serviceability
- Critical parts are casted to ensure high tolerance repeatability



Pipe Stack

- No need for antirotation due to the intelligent shaft couplings
- Halfway connection/disconnection
- Critical parts are cast

Pump Cylinder

- Higher performance resulting in smaller motors
- Better NPSHr repeatability
- Connected using bell house
- Critical parts are cast

Technical Specifications NDW Pumps

Capacity:	100 - 800 m^3/h
Pressure:	0 - 150 mLC
Temperature:	-104°C - +180°C

Boosting Capabilities

The booster pumps are placed on the deck and are used in series with the NDW pumps in order to obtain a higher total pressure of the cargo at the ship's manifold.

The booster pumps are single-stage centrifugal pumps available variable sizes according to requirements.

Technical Specifications Booster Pumps

Capacity:	60 - 600 m^3/h
Pressure:	0 - 150 mLC
Temperature:	-104°C - +180°C

Making a quality product that meets your requirements is not enough to secure a successful installation.

DESMI has wide experience with managing various projects such as entire pump systems for aircraft carriers, fire fighting system pumps for Nuclear Submarines in dock, and large-scale on-shore installations. These project management skills ensure that your expectations are met.

The process is divided into six stages.

For each individual stage we have defined the documentation and communication required and trained our staff accordingly.

This ensures a satisfied customer throughout the project.

You can read more about our pump solutions at www.desmi.com

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