

DESMI Cargo Pumps for Liquified Gasses

Deepwell Cargo- and Booster Pumps for Gas Carriers

PROVEN TECHNOLOGY

**DESMI**

# SAFE & RELIABLE CARGO PUMPS

Starting back in 1834 and with a brand recognition from various industries and customer databases, you are guaranteed a partner and manufacturer who delivers your Cargo Pump in a high quality with focus on efficiencies, reliability and a service-friendly design.

With DESMI factories in Denmark, China, US, and India, subsidiaries in 19 countries worldwide, and a global distributor and service network, DESMI guide you all the way through commissioning, installation, and service. Our global footprint is unique – and we are here to serve global wide!

# Deepwell Cargo Pumps for Liquified Gasses, Type NDW

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With 100's of pumps delivered, and +25 years of experience the DESMI deepwell cargo pumps for liquified gasses have a well proven and reliable performance.

DESMI is continuously striving to optimize our products to the benefit of the user and the environment. A result of this process is the upgraded NDW deepwell cargo pump for liquified gasses.

The upgraded NDW deepwell cargo pump is based on DESMI's vast pump experience combined with the latest design tools and design principles.

The result is a cost efficient, trustworthy, and reliable pump with superior efficiency and suction capability.

The upgraded energy efficient design has positive impact on the vessel's EEDI, EEXI and CII, contributing to green shipping!

**This is truly Proven Technology!**

All materials and parts are also carefully reviewed to ensure that our pump can resist the most aggressive and challenging gasses such as  $\text{NH}_3$  and  $\text{CO}_2$ .

The pump represent state-of-the-art in terms of:

- Energy Efficiency
- Suction Capabilities
- Ease of Installation
- Ease of Maintenance



# DESMI NDW DEEPWELL PUMP WITH ITS WIDE ARRAY OF FEATURES AND FUNCTIONALITIES



- Well-proven double shaft seal with self-adjusting pressure booster (and optional alarm) to safeguard against any leakage
- Easy shipment and assembly at yard
- Reduced number of impeller stages
- Possibility to rotate the shaft in counter direction in case of ice-blocking
- Automatic cool down monitoring (option)
- Static seal for maintenance access to all wear parts outside the tank without gas freeing the tank.
- Casted pump design for improved efficiency



LEARN MORE  
ABOUT THE  
DESMI NDW

# Configuration for any Liquified Gasses

## Materials:

Stainless steel AISI304/304L for cargo temperatures down to -165°C.

The NDW pumps are available in various sizes and can be customized to meet the requirements for your ship.

Capacities: Up to 850 m<sup>3</sup>/h / 3742 US gpm

Pressure: Up to 250 mLC / 820 ftLC

Temperatures: Down to -165°C / -265°F

## Vessels types:

- Fully refrigerated
- Semi refrigerated
- Ethylene capable
- Fully pressurized

The flexible design of the NDW deepwell cargo pump allows configuration for any combination of liquified gasses such as LPG, LEG, LNG, NH<sub>3</sub>, VCM, CO<sub>2</sub> and all common commercial gasses.



# BOOSTER PUMPS

## TYPE: NDB



To support the NDW pump and obtain a higher total pressure of the cargo pump, we have the booster pumps.

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

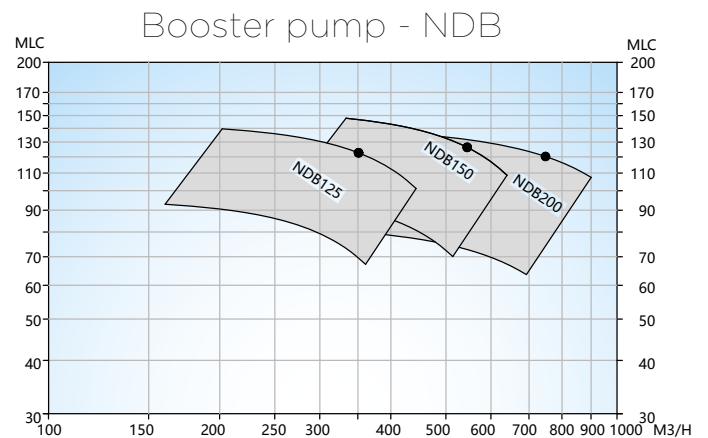
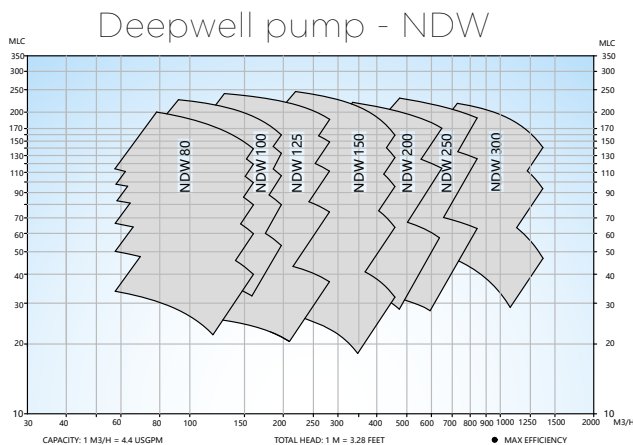
Technical specifications for booster pumps:

Capacity: 1250 m<sup>3</sup>/h / 3742 gpm

Pressure: Up to 150 mLC / 0 - 459 ftLC

Temperature: Down to -104°C / -155°F

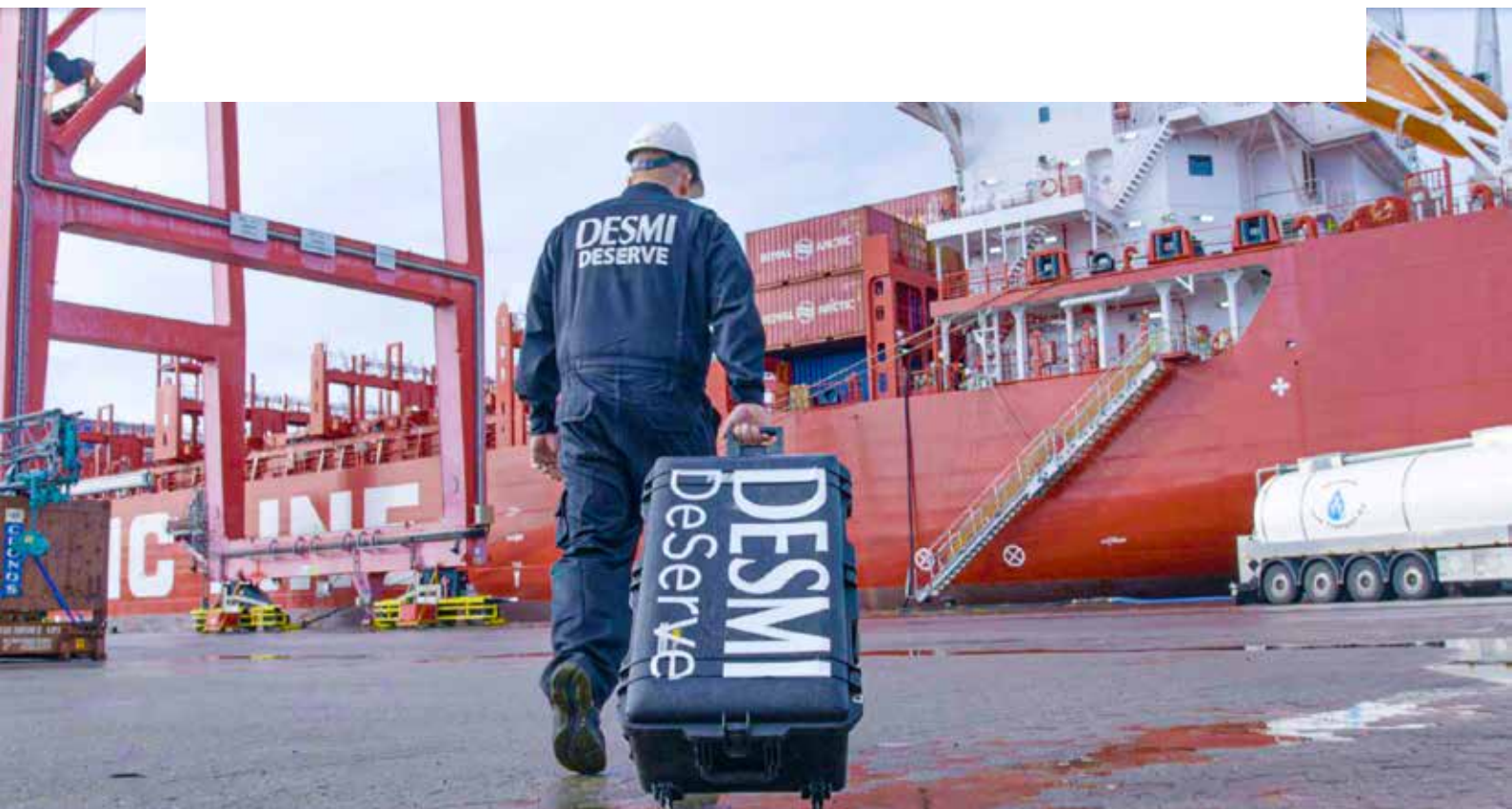
### Pump curves



A cargo pump is not just a cargo pump - especially when it comes to reliability and efficiency. DESMI cargo and booster pumps have been in operation for more than 25 years on different types of gas carriers.

With our well-established service network and world-wide representation, our field service experts in DESMI DeServe provide service solutions onboard the vessel or in drydock, such as:

- ✓ Installation Supervision and Commissioning
- ✓ Pre-dock Inspection
- ✓ Service on Cargo- and Booster Pumps
- ✓ Service on Cargo- and Cooling Compressors
- ✓ Service on Safety Valves



**DeServe**

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