



# DESMI NDW pumps

Deepwell cargo- and booster pumps  
for gas carriers

New Green Solutions


**DESMI**  
Make life flow



# The heart of your cargo system







Gas carriers play a vital role in the energy transition worldwide, for example for transporting captured CO<sub>2</sub>, or transporting LPG used for clean cooking in developing countries. But no gas carrier without a cargo pump.

The DESMI 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. All materials and parts are also carefully reviewed to ensure that our pump can resist the most aggressive and challenging gasses such as NH<sub>3</sub> and CO<sub>2</sub>.

# Wide array of features and functionalities



**NDW pumps are available in various sizes and can be customized to meet your requirements.**

- ✓ 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
- ✓ Cast pump design for improved efficiency



## Materials:

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

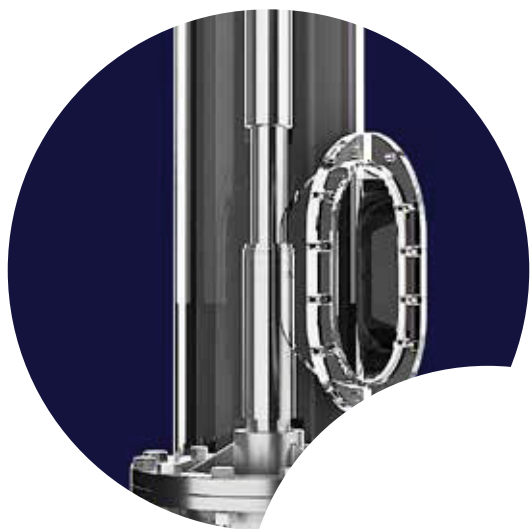
Capacities: Up to 1200 m<sup>3</sup>/h / 5283 US gpm

Pressure: Up to 250 mLC / 820 ftLC

Temperatures: Down to -165°C / -265°F

## Vessel types:

- ✓ LPG carriers: fully or semi refrigerated, fully pressurized
- ✓ LNG carriers and bunker vessels
- ✓ NH<sub>3</sub>/ammonia carriers and bunker vessels
- ✓ Ethylene carriers
- ✓ CO<sub>2</sub> carriers
- ✓ Onboard carbon capture offloading pump



# DESMI NDB booster pumps

support our NDW pumps by increasing their total pressure. The booster pumps are single-stage centrifugal pumps available in various sizes according to your requirements.

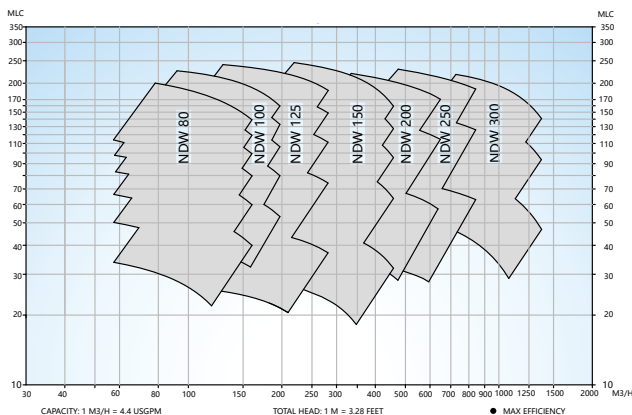


## Technical specifications for booster pumps:

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:

Deepwell pump - NDW



Booster pump - NDB

