



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 CO₂, 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 NH₃ and CO₂.

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 m³/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
- ✓ NH₃/ammonia carriers and bunker vessels
- ✓ Ethylene carriers
- ✓ CO₂ 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.

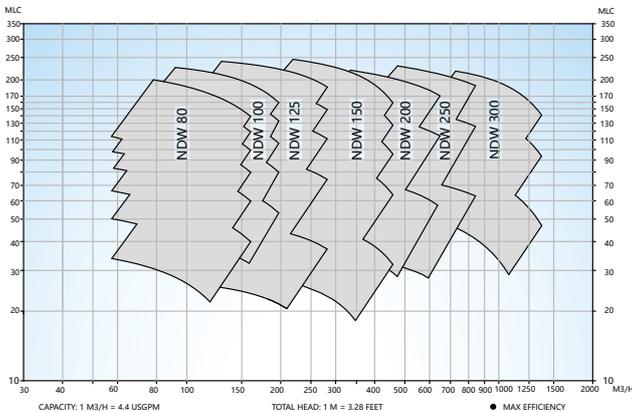


Technical specifications for booster pumps:

Capacity: 1250 m³/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

