



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 freezing the tank
- ✓ Cast pump design for improved efficiency

Materials:

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

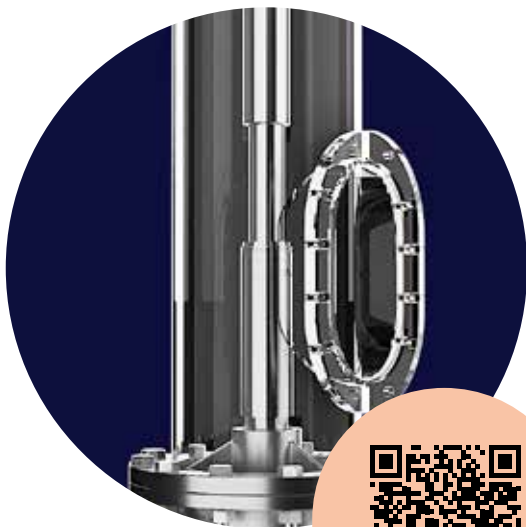
Capacities: Up to 1200 m³/h / 5283 US gpm

Pressure: Up to 250 mLC / 820 ftLC

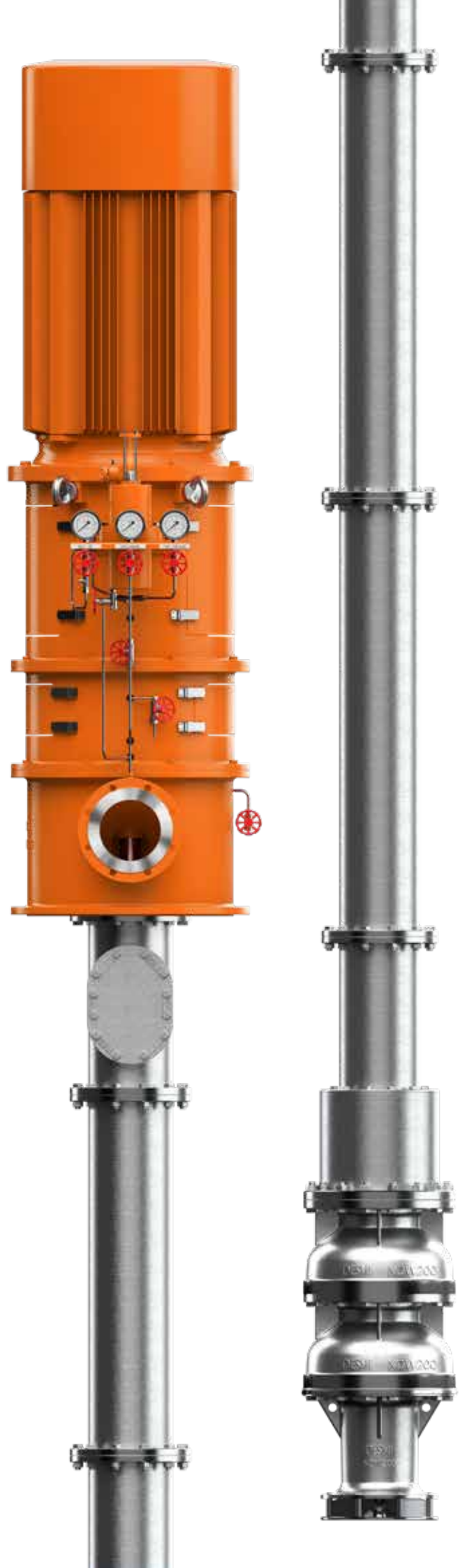
Temperatures: Down to -165°C / -265°F

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



Learn more
about the
DESMI NDW



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.

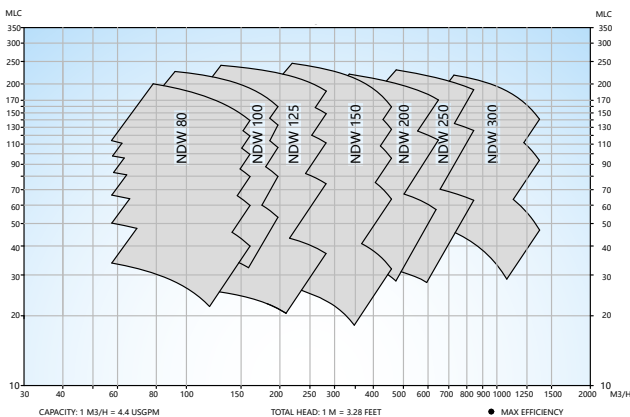


Technical specifications for booster pumps:

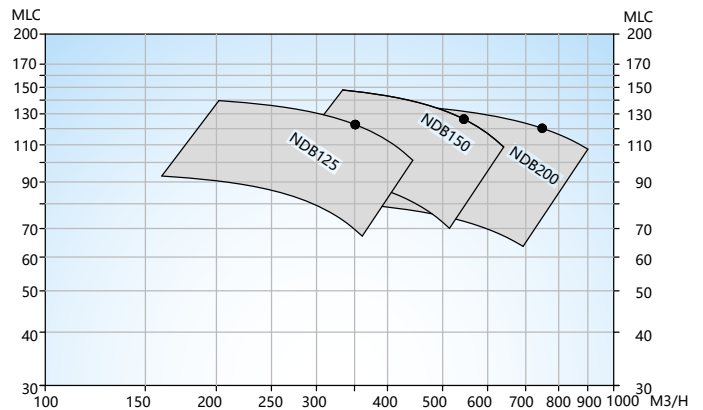
Capacity: 1250 m³/h / 3742 gpm
 Pressure: Up to 150 mLC / 0 - 459 ftLC
 Temperature: Down to -104°C / -155°F

Pump curves:

Deepwell pump - NDW



Booster pump - NDB



DESMI DeServe:

competent worldwide service



Our tailor-made, global services are essential to secure the optimization and long-term performance of your cargo pumps. We focus on ensuring uptime and availability, with the least hassle and in the shortest timeframe. No matter where you are located, we will always be ready at a moment's notice with the right expertise, spares, and know-how to keep your processes running.

Our DeServe service team can provide a long list of services on your ship while it is in port or dry dock, for example pre-dock inspection, commissioning, or service work on pumps, compressors, and safety valves. Our teams are highly experienced, factory trained, and fully capable of meeting your demands.

We exist to keep your business flowing

DESMI works closely with vessel owners, operators, and shipyards to deliver critical flow processes for diverse marine applications. Our pumps and supporting systems for marine applications, including deepwell cargo pumps, are trusted worldwide for dependability and the lowest total cost of ownership.

No matter which flow challenges you are facing, we can help you overcome them with class-leading equipment, solutions, and services designed specifically for your applications and environment, and with factories in China, India, the US, and Denmark, you benefit from our efficient global supply chain. At DESMI, our focus has never been on discovering what we can do – it's about pushing the boundaries of what we can do for you.

Founded in Denmark in 1834, we have provided the expertise, solutions, and aftermarket support our customers need for nearly two centuries. We help you operate more efficiently and reliably, enabling your ambitions for performance, compliance, and growth whilst helping you reduce your climate impact.

Together, we can make a difference, whatever the future holds. Because we, like you, are here to make life flow. For more information, visit desmi.com

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