

Cargo Pumps For LPG/LEG & Product Carriers



Other DESMI Marine Pumps

DESMI NSL Pumps

Vertical in-line centrifugal pump.
Capacity Range: 10 - 1400 m³/h
Pressure Range: 5 - 140 mWC



DESMI DSL Pumps

Vertical in-line centrifugal pump.
In compact design and with spacer coupling.
Capacity Range: 350 - 3800 m³/h
Pressure Range: 3 - 40 mWC



DESMI ROTAN Pumps

An internal gear pump available in several different designs: Monobloc, heavy duty, petrochemical and chemical duty and 100% leakage-protected, magnetically driven pumps.
Capacity Range: 1 - 170 m³/h
Pressure Range: Up to 16 bar



DESMI Super Primer

Latest design for super fast and secure priming. The standard pump have been equipped with a priming star wheel.



DESMI MODULAR S Pumps

A complete family of self-priming pumps built to fulfil our customers' various requirements.

With electric or hydraulic motor, petrol or diesel engine or V-belt drive.
Capacity Range: 1 - 400 m³/h
Pressure Range: 1 - 150 mWC



Classification

DESMI pumps are manufactured to comply with the requirements of all classification societies. Test certificate from own test bed and any classification society is available on request.

DESMI is a modern company with many years of experience. Centrifugal, sewage, internal gear pumps and environmental equipment are among our products. Our customers rely on our quality. DESMI's quality system is in accordance with ISO 9001



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DESMI

DESMI CARGO PUMPS

DESMI develops and manufactures cargo pumps of the following types:

- **DESWELL** submerged multistage centrifugal pumps
- **DESBOOST** single stage centrifugal pumps
- **DESCARGO** multistage booster pumps.

The **DESWELL pumps** consist of 3 main components, namely the pump cylinder, the pipe stack and the base arrangement. In order to achieve the required head, the pump cylinder is designed with a variable number of impellers and casings. The pipe stack consists of a number of intermediate pipes in which the cargo is transported to the outlet flange of the discharge socket. 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 1.5 meters, 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.

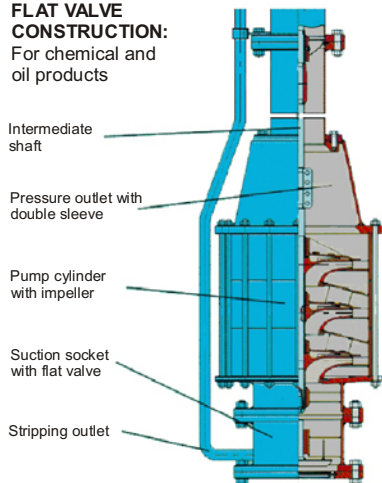
If a mechanical seal should fail, it can be replaced with a still pressurised tank, thanks to a built in static seal. This feature is standard in all **DEEPWELL** pumps for liquified gases.

The base arrangement is bolted to the dome flange of the tank and thus carries the pump. The main parts are the discharge socket, the seal arrangement, the bearing arrangement, and the motor console with the electric motor.

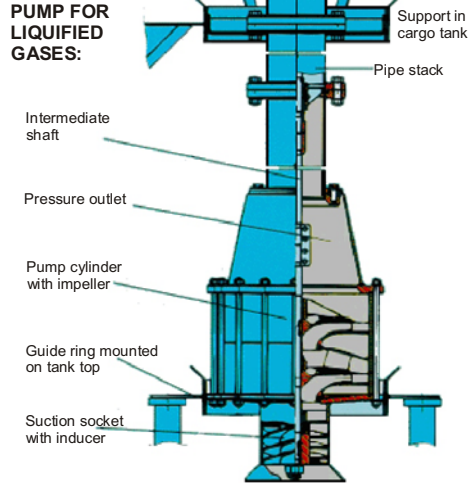
For barges where limited height of the base arrangement is available **DESMI** has constructed a very noiseless arrangement with belt drive.

FLAT VALVE CONSTRUCTION:

For chemical and oil products

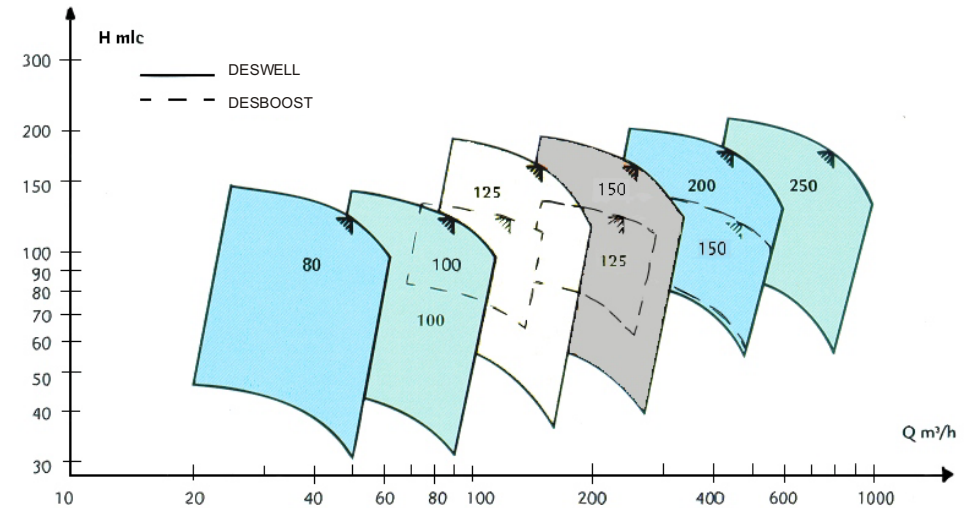


PUMP FOR LIQUIFIED GASES:



THERE'S ALWAYS A SUITABLE PUMP

THIS DIAGRAM PROVIDES a general guide to the choice of the correct **DESWELL CARGO PUMP** for permanent installation in your tanker. It's always possible to find a **DESWELL CARGO PUMP** with suitable capacity and there are normally no construction limits to the length of the pump.



The pumps are designed to operate in the temperature range from -104°C up to +180°C. The material combination will for each order be selected in due consideration to the cargo list and the operating temperatures of the pumps.

The pumps are normally driven by an electric motor. If regulation of the RPM is required a frequency converter or a hydraulic motor is optional.

Depending on the cargo the pumps can be equipped with an inducer for gases, a molasses worm screw for highly viscous cargoes or stripping equipment with a flat valve in order to minimize the residue in the tank.

The pumps are normally delivered assembled ready for installation. The pumps are free to expand or contract as they are fixed to the dome flange and guided by a guide ring mounted on the tank top. Depending on the length of the pipe stack or potential slushing due to slack tanks, it may be necessary to install one or more midsupports in order to avoid bending the pipe stack.

The **DESBOOST pumps** are normally placed on the deck and used in series with the **DESWELL** pumps in order to obtain a higher total pressure of

the cargo at the ships manifold. The booster pumps are single stage centrifugal pumps available in both vertical and horizontal versions.

The **DESCARGO pumps** are basically used for the same purpose as the **DESBOOST** pumps. The **DESCARGO** pumps are multistage horizontal pumps, usually supplied with an inducer in order to lower the NPSH-value of the pump. During the design phase the inlet and outlet flanges can be adapted to fit the customer's existing pipework.

All the pumps for liquified gases are equipped with a double mechanical seal arrangement and an automatic pressuriser which secures correct pressure of the oil for the mechanical seals, irrespective of the cargo.

World-Wide Pump Service

Over the years **DESMI** has earned the reputation as a reliable service partner within cargo pumps. Our staff of skilled service engineers provides reliable service world-wide for centrifugal cargo pumps of most manufactures. From our workshop we provide parts at competitive prices at short notice.