

SANHEEL

ANTI-HEELING SYSTEM



SANDERMARINE
MARINE + OFFSHORE EQUIPMENT

SANDERNAVY
NAVAL EQUIPMENT



MAXIMUM EFFICIENCY. MAXIMUM SAFETY.

System Overview

/ Control panel

The control panel is designed as a touch panel and can be integrated in the control box or in an existing console. The first panel is the master, all other panels are working as slaves. Each panel is equipped with an emergency stop button. A dimmable version for the wheel house is available.

The control panel may be integrated into SANSYS control and monitoring system.

/ Control cabinet

With or without control panel. The control box contains the power supply 24VDC, line protection for 24V, SPS with I/O modules, software, safety relays for emergency stop, inclinometer and the terminals for the pump starter box and the control panels.

/ Pump starter box

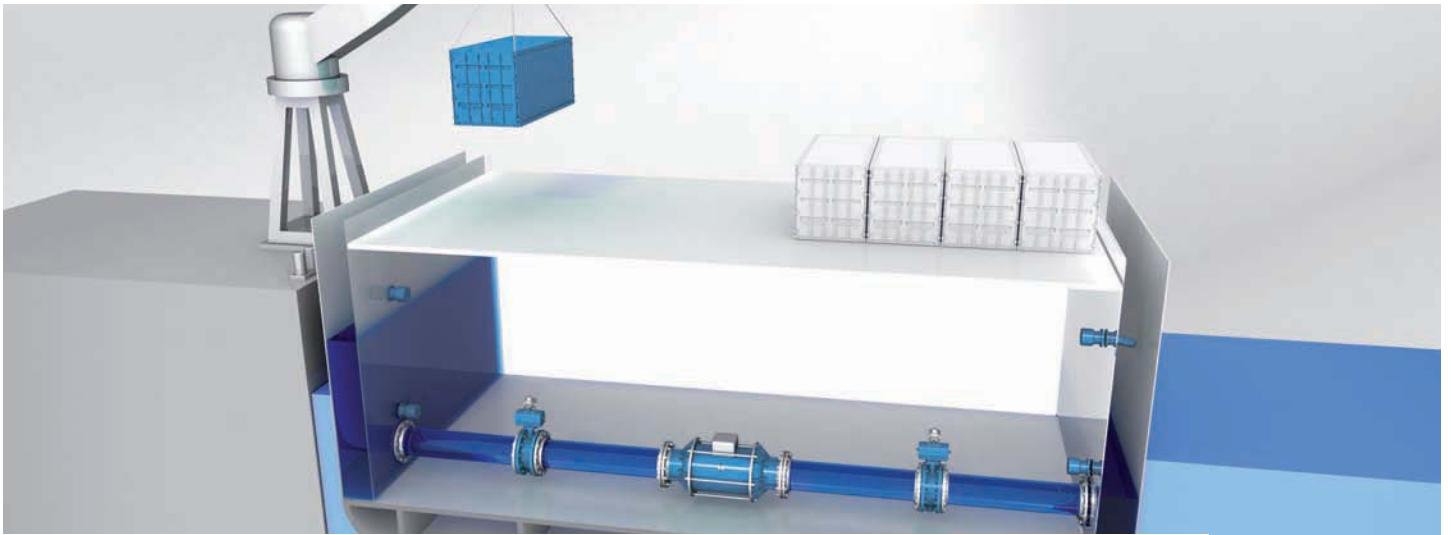
The pump starter box contains the control of the heeling pump, the terminals for level switches and pressure sensors and the terminals for control and feedback of the connected butterfly valves.

/ Be on the safe side

For the unattended operation a tilt switch is built in that turns off the weight transfer operation independently. Predictive maintenance (based on number of opening/closing cycles, running hours) provides long-lasting trouble-free operation.



We are certified according to
ISO 9001: 2015
ISO 14001: 2015



ANTI-HEELING THE SANDER WAY

SANHEEL detects the heeling angle of the vessel and rebalances the ship automatically by pumping ballast water from starboard to portside or vice versa.

Your benefit: No compromises

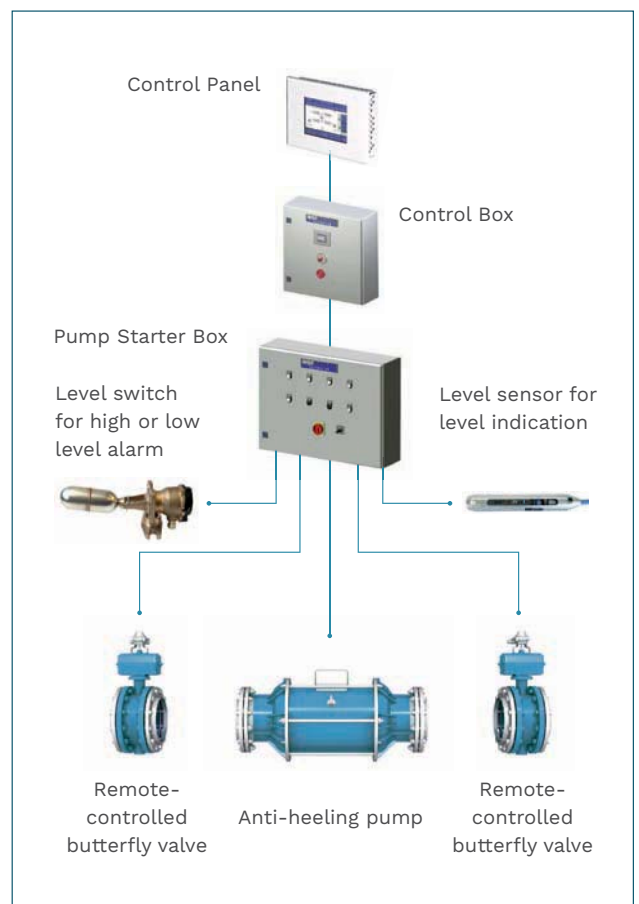
Loading and unloading can be operated continuously and in reduced time while the vessel is kept safely upright. The control system evaluates the connected inclination sensor and automatically controls the mass flow through the valves and the pump to compensate the heeling by weight transfer.

A pre-heeling feature allows the crew to prepare the vessel to load or discharge single heavy pieces of cargo.

SANHEEL anti-heeling system can operate with reversible and nonreversible pumps, using remote-controlled valves to direct the ballast water flow. For safety reasons the system is provided with emergency stop equipment which can be pushed at all operating stations. Type approved by DNV-GL.

Seamless integration

The SANSYS control and monitoring system allows a seamless integration of a SANHEEL anti-heeling system with other systems such as SANCONTROL remote control valve system or SANVALUE tank level gauging system.



SANDER MARINE WORLDWIDE

The Sander Marine is your one-stop solution provider for fluid management. The product range includes manual valves and fittings according to DIN, ANSI and JIS standard, most of which are available from stock. In-house certification according to DNV-GL, LR, RINA and RMRS class saves cost and reduces lead time for critical spare parts.

Based on warehouses as well as sales & service stations we can provide a quick and reliable spare parts supply and technical support in:

- / SWEDEN
- / GERMANY
- / SINGAPORE
- / DENMARK
- / NORWAY
- / DUBAI
- / INDIA
- / TURKEY
- / SPAIN
- / ROMANIA
- / RUSSIA



For new building vessels and retrofits we supply:

SANSYS

Customizable control and monitoring system

SANVALUE

Tank level gauging system incl. SOLAS flooding detection or bunker alarm system

SANHEEL

Anti-heeling system

SANDER NAVY

Valves and systems according to international Navy standards

SANCONTROL

Hydr./el.-hydr./pneum./el. remote control valve system

SANFAST

Pneumatic or hydraulic quick closing valve system

SANTORQUE

Hydraulic and electro-hydraulic actuators and accessories

SANDER MARINE

After sales support and services

SANDERMARINE
MARINE + OFFSHORE EQUIPMENT

SANDERNAVY
NAVAL EQUIPMENT

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