

Redesigned lube-oil pump for vertical installation & Anti-heeling Pump at Nor-shipping

Allweiler AG, Radolfzell/Germany, (booth D03-02) introduces their new main-engine lube oil pump in two stage design. ALLMARINE MELO is an extremely efficient, robust, and reliable centrifugal pump. Also for the first time presented at the Nor-shipping trade fair is ALLTRIMM with increased capacity. ALLTRIMM is a new anti-heeling in-line propeller pump with unique technology.

ALLMARINE MELO is arranged for vertical installation in propulsion engine oil reservoirs and was specifically designed for supplying lube oil to diesel motors ("Main Engine Lube Oil - MELO"). There are many things that distinguish the new pump from "normal" lube-oil pumps. For example, the flow-optimized suction branch has integrated anti-vortex ribs that ensure optimal flow across the impeller at all times. The results are lower NPSH-R values whilst achieving the same high suction capacity. Features like a key-secured impeller (instead of the traditional friction lock) and reinforcements under the attachment flange contribute to a design that will deliver stable performance for the long term. ALLMARINE MELO is designed to noticeably decrease maintenance costs. Shaft sleeves protect the two bearing points from wear and dry-running, even under unfavorable operational conditions, thereby greatly extending the shaft's service life. Balancing holes in the impeller reduce axial loads and increase the pump's endurance. Finally, all wearing parts are arranged to make them accessible without requiring disassembly of the pump. The pump is available in a variety of sizes with a maximum capacity of 1500 m³/hour and a maximum oil temperature of 100 °C. The new two-stage design enables pressures of up to 10 bar.

The ALLTRIMM pump is an inline propeller pump with reversible hydraulics. This unit has a special design, whereby the drive is integrated into the pump casing. The integrated drive eliminates the need to install costly valve controllers. The pump unit requires little space and is very easy to install. It contains fewer wearing parts because no additional components like a coupling or gearbox are required. Other advantages of the new design: electrically-actuated, low-load flow reversal and low mass moment of inertia for very short start-up times.

The new versions with enhanced motor power increase capacity to 1200 m³/hour and pump heads to 20 meters. Although two different motor sizes cover this performance range, the installation dimensions are identical, while an intelligent modular design system ensures that the major components in all versions are identical. These aspects, with the many standardized parts, make it possible for pump users to maintain an economical stock of replacement parts.

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Caption:

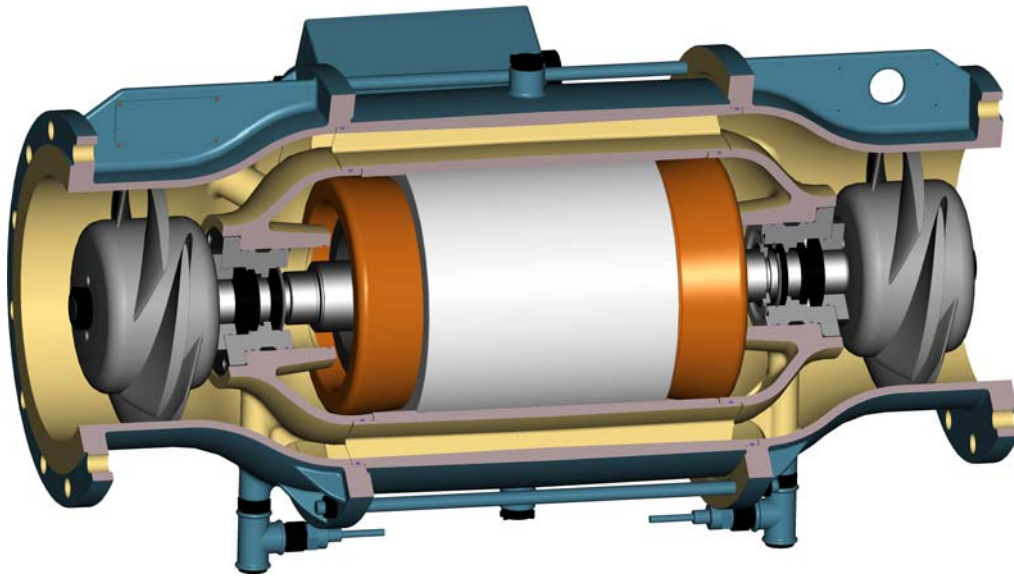
(Radolfzell/Gerrmany) As its name implies, pumps of the new “ALLMARINE MELO” series from Allweiler AG are designed for the Main Engine Lube Oil application. ALLMARINE MELO is an extremely efficient, robust, and reliable volute-housing centrifugal pump. It effectively combines low maintenance costs with high availability. The pump is installed vertically, either inside or on the (oil) tank. The maximum flow rate of the new two-stage version as shown in the picture is 1500 m³/hour; maximum oil temperature is 100 °C; maximum pump pressure is 10 bar; and the maximum immersion depth is 3700 mm (Nor-shipping, booth D03-02).

Plant photo: Allweiler AG, Radolfzell

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Caption:

(Radolfzell/Gerrmany) ALLWEILER AG presents the new “ALLTRIMM”, a anti-heeling pump with enhanced capacity at this year’s Nor-shipping trade fair in Oslo (booth D03-02). This inline propeller pump contains reversible hydraulics. Its new electric motor with enhanced power is integrated into the pump lobe and is constructed from standard parts from a German manufacturer. As a result, the new pump requires neither a costly valve controller nor a coupling and a transmission. ALLTRIMM is available in single and twin-stage versions with a flow range of 300 to 1200 m³/hour and a pump head of 10 meters (single stage) to 20 meters (twin stage; as shown in the picture). Two motor sizes cover the above-mentioned performance range. The sectional drawing depicts the twin-stage version.

Plant photo: Allweiler AG, Radolfzell

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