

New lube-oil pump for vertical installation in oil tanks

(Radolfzell) Allweiler AG has expanded their line of specialized marine pumps with a new main-engine lube oil pump. ALLMARINE[®] MELO is an exceptionally efficient, robust, and reliable volute centrifugal pump that combines the benefits of low maintenance and high availability.

This centrifugal pump was specially designed for “MELO” (Main-Engine Lube Oil) requirements and is intended for vertical installation in oil tanks. 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 values with 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. The entire unit exhibits the kind of mechanical robustness needed to withstand the impacts and pressures that travel through the hull and piping of a ship on rough seas. A special V-ring prevents bilge water from penetrating the oil tank even during standstill.

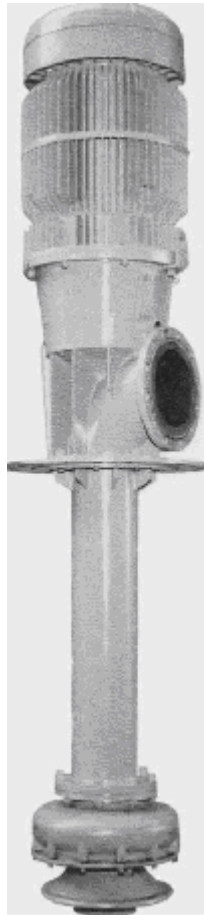
In addition, the ALLMARINE[®] MELO is designed to noticeably decrease maintenance costs. For example, shaft sleeves protect the two friction points from wear and dry-running even when operational conditions are less than ideal. As a result, it is very uncommon for a shaft to need replacing. Another feature are the balancing holes in the impeller. They reduce axial loads, thereby increasing the pump’s service life. Finally, all wearing parts are arranged to make them accessible without requiring disassembly of the pump. This feature greatly simplifies maintenance.

ALLMARINE[®] MELO is available in a variety of sizes with a maximum capacity of 950 m³/h and able to handle oil temperatures up to 100 °C. The two-stage design enables pressures of up to 10 bar. An intermediate bearing permits flexible immersion depths of up to 3700 mm. The DIN/JIS-compliant attachment flange makes it easy to integrate the pump into existing systems. Or the customer can choose an optional counter-ring flange to mount the pump on the tank.

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**Caption:**

As the name makes clear, the new line of “ALLMARINE[®] MELO” pumps from Allweiler AG are designed for the Main-Engine Lube Oil application. ALLMARINE[®] MELO is an unusually efficient, robust, and reliable volute centrifugal pump. It effectively combines low maintenance costs with high availability. The pump is installed vertically inside or on the (oil) tank. The maximum capacity of the pump is 950 m³/h and the maximum oil temperature is 100 °C. The two-stage design enables pressures of up to 10 bar; the maximum immersion depth is 3700 mm.

Plant photo: Allweiler AG, Radolfzell

Founded in 1860, Allweiler AG is the oldest German pump manufacturer and the European market and technology leader for centrifugal, propeller, screw, eccentric spiral, macerator, and peristaltic pumps. Allweiler AG owns a foundry and produces ready-to-use fuel skids. Allweiler AG has their main German headquarters in Radolfzell on Lake Constance as well as a major subsidiary in Bottrop, Germany. Since 1998, Allweiler AG has been part of the Colfax Pump Group, a global leader among pump manufacturers. In 2003, Allweiler's 900 employees achieved sales of 144 million euros (previous year: 157 million euros).

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