

## **Anti-heeling pump now with higher performance and explosion protection**

**(Radolfzell/Germany) Allweiler AG has expanded the range of applications for its ALLTRIMM anti-heeling pump. The improved pump has the same dimensions but maximum flow rate is one-third higher at 1300 m<sup>3</sup>/hour. It will be also available in future in an explosion-protected version. The pump is especially well suited for use in container ships, cruise ships, and roll-on/roll-off vessels.**

ALLTRIMM is a fully redesigned inline propeller pump with reversible hydraulics. One of its innovative features is inclusion of the drive in the pump. The drive itself is constructed with standard parts from a respected German manufacturer of electric motors. The integrated drive and reversible hydraulics on ALLTRIMM eliminate the need for costly installation of valve controllers required by conventional trim systems. In addition, the unit has only a small space requirement and is very easy to install. The pump is extraordinarily economical since its maintenance intervals are long and maintenance tasks are easy to complete. The key to the design: the pump operates without costly wearing parts like a coupling or gearbox.

Another advantage of the new design is its low mass moment of inertia, thanks to the small number of rotating parts. This permits short start-up times as well as rapid changes in the pumping direction without high mechanical stress. Finally, the seal design with integrated leak monitoring and three radial-shaft sealing rings working in series make the pump very safe in operation. It is not necessary to continually monitor this pump visually, since the pump assembly will automatically register wear on the seals early enough for the operator to plan a convenient time for maintenance. When the time has come for maintenance, complete repair kits make the job very easy. Dr. Michael Matros, general manager and member of the management board: "ALLTRIMM concept is according to Allweiler strategy to serve our customers with products that reduce the total cost of ownership (TCO)."

New propeller geometries and optimized hydraulics on the new versions push flow rate to as high as 1300 m<sup>3</sup>/hour. Maximum delivery head is 20 meters. Two motor sizes cover this performance range. ALLTRIMM will soon also be available in explosion-proof versions suitable for use in potentially explosive areas such as the cargo holds of container ships. Installation dimensions and the most important components are completely identical in every version, so ship owners who employ several different versions of ALLTRIMM in their fleet will find it easy to maintain an economical stock of replacement parts.

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**Caption:**

(Radolfzell/Germany) Allweiler AG manufactures its ALLTRIMM anti-heeling propeller pump in seawater-resistant aluminum bronze (CC333G). This inline propeller pump has reversible hydraulics and a uniform pumping capacity. Three radial-shaft sealing rings contain an integrated leak sensor. The electric motor is constructed with standard parts from a German manufacturer and conveniently integrated into the pump lobe. As a result, the pump forgoes components required in conventional designs such as a valve controller, coupling, and gearbox. The pump is available in one and two-stage versions that deliver a flow rate up to 1300 m<sup>3</sup>/hour and delivery heads up to 10 meters (single-stage) or 20 meters (two-stage). Two motor sizes cover this performance range with the same external dimensions. The pump will be in future also available in an explosion-protected version.

The cut-away drawing depicts the single-stage version.

Photo: Allweiler AG, Radolfzell

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Founded in 1860, Allweiler AG is the oldest German pump manufacturer and the European market and technology leader for centrifugal, propeller, screw, progressing-cavity, gearwheel, rotary lobe, macerators, and peristaltic pumps. Allweiler AG owns a foundry and produces ready-to-use fuel skids and rinsing-water facilities. Allweiler AG has its main German headquarters in Radolfzell on Lake Constance as well as a major production site in Bottrop, Germany. Since 1998, Allweiler AG has been part of Colfax Corporation, a global leader among pump manufacturers. In 2005 Allweiler AG employed about 900 people and had sales of 154 million euro.

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