Allweiler pumps for environmental compatibility and a clean engine room

(Radolfzell, Germany) Allweiler will present innovative pump sealing technology at the Norshipping trade fair (stand C02-12). Screw pumps made by Allweiler AG are now available with a new opto-electronic module for clean and secure operation. Known as "ALLSEAL", this intelligent technology provides safety against uncontrolled leaks and detects wear of the mechanical seal as soon as it begins. The result is an economical alternative to hermetically sealed magnetic couplings. New "ALLFUEL" screw pumps reduce operational costs and ensure high system reliability. The new "ALLREADY Box" from Allweiler demonstrates how continuous monitoring of a pump's condition can improve the safety and efficiency of processes.

Ship owners and their chief engineers recognize pumps as the heart of their systems and value them accordingly. Collaborating with its customers, Allweiler has developed a new series of modules designed to allow ships to enter harbors and coastal waters even when there are restrictive environmental regulations in effect. By doing so, this German-based pump manufacturer is fulfilling a current need and following up on its customers' desire for unrestricted global trade.

This intelligent solution "**ALLSEAL**" is available on Allweiler's vertically installed screw pumps and eliminates any unacceptable leakage in the engine room. This makes Allseal an ideal solution for ship operators who must comply with special environmental regulations or other requirements such as SOLAS directives for flammable and explosive liquids, MARPOL (IMO), and the Clean Cruise Ship Act/Clean Waters Act (United States). Furthermore, it eliminates unpleasant surprises caused by sudden or gradual leaks and minimizes the risk of unexpected failure and resulting costly interruptions of the pumping process. Overall, this new technology helps eliminate environmental contamination and improves operational safety.

The opto-electronic system immediately detects any liquid that may escape around the mechanical seal. Unacceptable leaks trigger electronic signals that may be integrated into a centralized control

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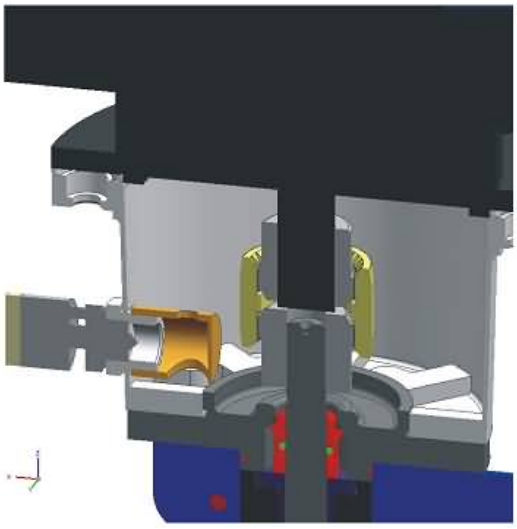
system, forwarded to a monitoring station, or produce a visual or acoustic alarm. Depending on the specific installation, the leaking pump may be switched off automatically and operation simultaneously switched over to a reserve unit.

Dr. Michael Matros, Executive Board member at Allweiler AG, described ALLSEAL at its introduction: “This new technology makes Allweiler the only pump manufacturer to offer a modular sealing concept. The customer can now choose between conventional mechanical seals, the new ALLSEAL version with leak detection, and hermetically sealed pumps with magnetic drive.”



Caption:
The coupling bracket captures the standard leak coming out of the pump. The opto-electronic sensor is located in the wall of the bracket. If liquid escapes and reaches this sensor, "ALLSEAL" will react appropriately.
Photo: Allweiler AG

ALLFUEL, the latest generation of three-screw pumps, is ideally suited for use as a fuel transfer and injection pump. Available as a single pump or twin unit, ALLFUEL has very low space requirements and is easy to integrate into on-board installations. Clear, straightforward operating procedures make these pumps very safe and easy to use. A filter with a large surface area improves reliability and extends the service life of the pump. The vertical filter has a unique "inside-out" flow to keep particles inside the filter. The filter itself can be quickly replaced without the inconvenience of draining and refilling the pump.

ALLREADY Box is specifically designed for use with centrifugal heat-transfer pumps. It continuously and automatically monitors the most important mechanical components of a pump: the bearings and shaft

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seal. It detects unusual operating conditions early. Once detected, these conditions can be displayed on Allready Box itself or forwarded to a central control system. Depending on the installation and settings, ALLREADY Box responds to an alarm by turning off the pump and/or switching to a reserve unit. Having permanent monitoring of this type helps protect against a costly total loss of the pump in a variety of situations.

Founded in 1860, **Allweiler AG** is the oldest German pump manufacturer and the European market and technology leader for centrifugal, propeller, screw, progressing-cavity, cogwheel, rotary lobe, macerators, and peristaltic pumps. Allweiler AG owns a foundry and produces its own stators. It manufactures ready-to-use fuel and lube-oil 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. Allweiler AG has been part of Colfax Corporation since 1998.

Colfax Corporation is a global leader in critical fluid-handling solutions, including the manufacture of positive displacement industrial pumps and valves used in global oil & gas, power generation, marine, naval and a variety of other industrial applications. Key product brands include Allweiler, Fairmount Automation, Houttuin, Imo, LSC, Portland Valve, Tushaco, Warren and Zenith. Colfax is traded on the NYSE under the ticker "CFX." Additional information about Colfax's products, businesses and practices is available at www.colfaxcorp.com

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