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Alfa Laval PureBallast 3 Ex deckhouse solution meets product tanker needs

A new Alfa Laval PureBallast 3 Ex deckhouse solution has been validated for product tankers with Framo ballast pumps. The solution allows Alfa Laval PureBallast 3 Ex to be installed on deck – without any changes to the ballast pumping system on board.

Modern product tankers use submersible ballast pumps to eliminate the ballast pump room and create more space for cargo. This means their ballast water treatment systems must often be installed in a deckhouse. However, the filter backflushing sequence may require water pressure in excess of available pressures from today's market-standard ballast pump design.

“The situation is a Catch-22 for owners of product tankers, who may have to alter a functioning pumping system to support ballast water treatment,” says Anders Lindmark, Head of Alfa Laval PureBallast. “Working together, the technical teams for Framo pumping systems and Alfa Laval ballast water treatment systems have developed a deckhouse solution that removes this headache.”

Type approved and validated with Framo ballast pumps

The new deckhouse solution incorporates a booster pump unit into the PureBallast 3 Ex system, as well as other modifications to increase backflushing pressure. The modifications ensure that sufficient backflushing pressure will be generated by the ballast water treatment system itself.

Reviewed by DNV-GL, the solution has been validated at the Framo pump testing facility for use on product tankers with Framo ballast pumps installed. Because the modifications fall within the current U.S. Coast Guard type approval and revised IMO G8 certificate for PureBallast 3 Ex, no additional certifications are necessary.

The deckhouse module includes not only the PureBallast 3 Ex system, but also HVAC, lighting and all necessary pipework within the deckhouse. “With a complete deckhouse solution that is

validated from both pumping and ballast water treatment perspectives, we have a full answer to the needs of product tankers,” says Lindmark.

To learn more about Alfa Laval PureBallast 3 Ex and Alfa Laval’s approach to ballast water treatment, visit www.alfalaval.com/pureballast

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Editor's notes

About Alfa Laval PureBallast

PureBallast, which was the first commercially available ballast water treatment solution, is a chemical-free technology sold and serviced by Alfa Laval. A vital component of PureBallast is the enhanced UV reactor, which was developed jointly by Alfa Laval and Wallenius Water based on Wallenius Water technology. All PureBallast systems are available with both IMO and U.S. Coast Guard type approvals.

About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineering solutions based on its key technologies of heat transfer, separation and fluid handling.

The company's equipment, systems and services are dedicated to assisting customers in optimizing the performance of their processes. The solutions help them to heat, cool, separate and transport products in industries that produce food and beverages, chemicals and petrochemicals, pharmaceuticals, starch, sugar and ethanol.

Alfa Laval's products are also used in power plants, aboard ships, oil and gas exploration, in the mechanical engineering industry, in the mining industry and for wastewater treatment, as well as for comfort climate and refrigeration applications.

Alfa Laval's worldwide organization works closely with customers in nearly 100 countries to help them stay ahead in the global arena. Alfa Laval is listed on Nasdaq OMX, and, in 2017, posted annual sales of about SEK 35.3 billion (approx. 3.6 billion Euros). The company has about 16 400 employees.

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