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PRESS RELEASE

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BLACKMER'S SYSTEM ONE® CENTRIFUGAL PUMPS MEET THE DEMANDS OF OFF-BEP OPERATION

Grand Rapids, MI – Blackmer, a global leader in positive displacement rotary vane, eccentric disc, peristaltic hose and centrifugal pump technologies, announced today that its System One® line of heavy-duty centrifugal process pumps meet the needs of critical pumping operations in the soap and detergent industries in which the “best efficiency point” (BEP) is exceeded.

The design of centrifugal pumps creates radial forces when operated away from the BEP. The further the pump is operated from the BEP, the higher these radial forces. As these off-BEP loads are applied to the pump rotor system, they cause the shaft to deflect, meaning higher vibration frequencies. In many instances, operating equipment off BEP will cause premature mechanical seal failure, bearing failure and component damage.

However, System One® centrifugal pumps—which are available in Frame A, Frame M, Frame S, LD-17, Magnum and Vortex models, and are designed for the toughest, most extreme environments—are constructed around the seal, where 90% of failures occur, and feature a heavy-duty, solid, low-deflection shaft and ball bearings that prevent common vibration damage and offer greater stability at the seal area to improve seal life. In the process, these innovations create a stronger, more vibration-resistant pump with a wider operational window off the BEP and additional operational flexibility.

System One® pumps are built for the toughest duty, hard-to-seal soap and detergent applications, such as moving oil-based alcohols derived from vegetable oils and animal fats like fatty acids, fatty alcohols, glycerin and amines. They are also effectively used with such petroleum-based products as ethylene-based fatty alcohols, linear alkylbenzene sulfonate (LAS) sulfonic acids. In batch soap-making processes, the System One® offers superior performance in moving sodium hydroxide, vegetable oils and tallow to and from bleach blenders and hot caustic alkali solutions from saponification kettles. Within the soap-making processes, the System One® provides maximum uptime by delivering reliable, leak-free transfer of brine, ferric chloride hydrochloric acids and brine/sodium hydroxide solutions, ingredients that typically challenge the seal integrity of other centrifugal pumps. In continuous processes, the System One® is the reliable centrifugal pump choice for moving hot water to the hydrolyser and fatty acids from the hydrolyser to flash tanks.

For more information about Blackmer System One pumps, please contact Jim Becker at (616) 475-9390 or becker@blackmer.com.

Blackmer is a global leader in the design and manufacture of high-quality flow technologies, including peristaltic hose, eccentric disc and rotary vane positive displacement pumps, centrifugal pumps, screw compressors, air elimination systems, and sliding vane and reciprocating compressors for the transfer of liquid and gas products. Blackmer pumps and compressors are used worldwide in a variety of industries, including LPG, Chemical and Industrial Processing, Energy, Food & Sanitary, Military/Marine, and the Mobile Transport industries. Blackmer is part of the Dover Corporation.

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