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PRESS RELEASE

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ProVane's Hydrodynamic Journal Bearing Reduces Energy Costs, Improves Efficiencies for Soap & Detergents Manufacturers

Grand Rapids, MI – Blackmer, the global leader in the design and manufacture of positive displacement rotary vane pump technologies, announces that the Hydrodynamic Journal Bearing feature designed in its ProVane® Motor Speed Vane Pump reduces shaft/bearing contact and minimizes friction, resulting in higher mechanical efficiency and smart energy cost savings for Soap & Detergents manufacturers. The Hydrodynamic Journal Bearing—a unique fluid boundary forming principal—eliminates shaft-to-bearing contact within the ProVane® by hydroplaning above the bearing surface on a cushion of liquid. In this hydrodynamic condition there is no metal-to-metal contact or wear and bearing life can be indefinite. ProVane® pumps are engineered to achieve hydrodynamic mode (full film operation—the point offering the lowest bearing friction and least wear) faster than any other pump in its class to preserve bearing life. It also maintains optimum bearing characteristics even under a wide range of operating conditions within Soap & Detergents manufacturing and transfer applications.

The Blackmer ProVane® pump delivers reliability, reduced preventative maintenance, and operating speeds up to 3600 rpm with capacities from 6 to 100 U.S. gallons (379 liters) per minute in sizes ranging from 3/4" to 2". Designed for continuous-duty operations, this pump offers the self-priming, low shear, superior line stripping and fluid transfer efficiency of traditional vane pumps with the added benefits of higher operating speeds, longer bearing and vane life, and one mechanical seal. Utilizing motor speed technology, the ProVane® pump does not require a gear reducer, so it offers upfront equipment, installation and energy cost savings, not to mention the smaller footprint of a complete pumping unit.

Another design feature that separates the ProVane® from other positive displacement pumps include commercial mechanical seals, offering a wide range of sealing options including cartridge, tandem and double configurations to match your application needs and significantly reduce the leak risks and product loss potential of expensive raw materials, concentrated dyes and fragrances; and, the Blackmer patented noise suppression-pumping liner that effectively reduces the noise and wear affects of cavitation to further reduce potential maintenance time and costs.

In soap and detergents operations, Blackmer ProVane® Motor Speed Vane Pumps are being used to move high-purity chemicals, acids and caustics throughout batch and continuous processes; to move concentrated dyes and perfumes from totes to liquid detergents pre-mixer operations; and to move additives, builders and surfactants to mixer/blenders.

For more information about Blackmer ProVane® 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 Soap & Detergents, LPG, Chemical & Industrial Processing, Energy, Food & Sanitary, Military/Marine and Mobile Transport industries. Blackmer is part of Dover Corporation.

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