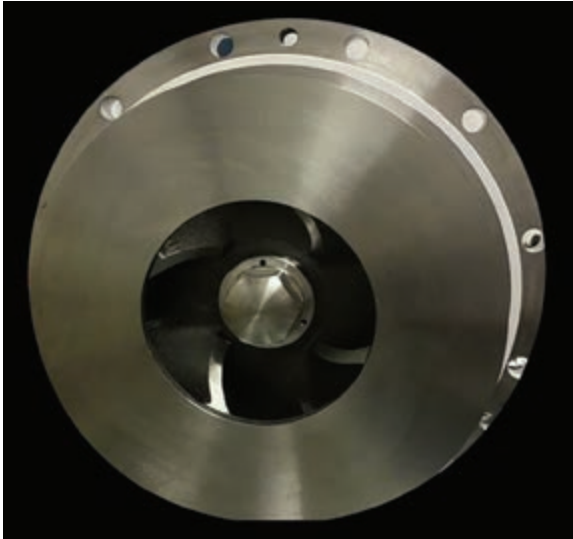


CASE STUDY

SWC/Adaptek partnership

Adaptek DiscPac™ Pumps for Pumping Latex

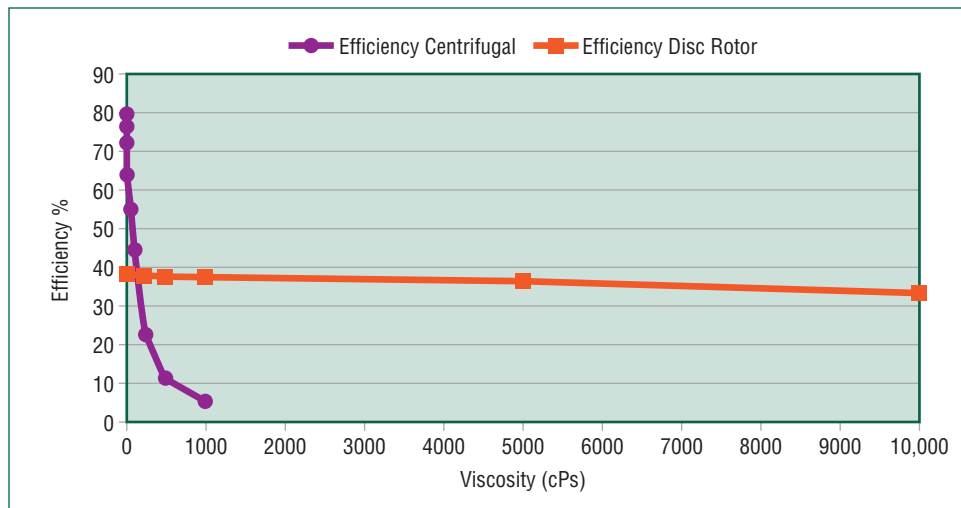


Pumping latex emulsions can be extremely challenging. By comparison to other pumps, Adaptek DiscPac™ pumps offers the best combination of characteristics to overcome latex challenges.

In a stainless steel “sanitary” steam-jacketed pump housing, i.e. a housing normally handling products related to the pharmaceutical, cosmetic, or food industry, the pump housing and parts arrangement facilitates quick cleaning of solid latex from the pump in between batch runs.

Positive displacement pumps will emulsify shear sensitive latex complicating the process by plugging lines, causing pump damage and relief valve discharge etc. DiscPac™ pumps are ideal for shear sensitive fluids as they will not emulsify as well as are suitable for variable viscosity materials as DiscPac™ pumps maintain their efficiency through viscosity variances.

Although latex pumping operations can be very “maintenance intensive”, the Adaptek DiscPac™ pump offers very little maintenance including no worry about the safety (relief) valves blowing as no pressure builds up in the pumps. Leaks are eliminated and product loss is minimized yielding greater productivity.



OVER →

About the SWC/Adaptek partnership

Southwestern Control's partnership with Adaptek goes back many years. Combining our 50+ years of engineering experience with the reliability and industry-best longevity of Adaptek's slurry pumps allows us to provide you with customized solutions to difficult problems and challenges based on your specific requirements. Contact our team about your objectives, and let's get started on your project today.

CASE STUDY

SWC/Adaptek partnership **Adaptek DiscPac™ Pumps for Pumping Latex**

Latex emulsions consist of two or more components that are normally unmixable. Non-emulsion is a hallmark characteristic of the Adaptek DiscPac™ pump that can be easily demonstrated as a benefit of its boundary layer viscous drag principle of operation.

Latex is a complex but stable emulsion of polymer micro and nanoparticles in an aqueous carrier fluid. Like other emulsions, latex begins as simple emulsions in which droplets of the substance are added to water leading to emulsion polymerization and the eventual product called “latex”. To achieve

desired latex performance characteristics including durability, dimensional consistency and chemical resistance require precise manufacturing and handling processes.

Two outstanding attributes of an Adaptek DiscPac™ latex pump facilitate said required precise manufacturing and handling processes. One is the superior the non-shearing characteristic of the boundary layer viscous drag principle by which the Adaptek DiscPac™ pump operates. The other is selection of a seal plan which eliminates any leak path or dilution of the latex solution.

For more information, comments or inquiries, please contact:

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