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Liquid Polymer Feeders (LF)

The LF Series of continuous polymer systems are the complete solutions to neat liquid polymer make-down. Aslan's liquid feed systems are used in different water treatment applications. Both batch and continuous feed options are available based on the required control and the system design.

Our Liquid feed systems are robust, simple and versatile. They come complete with stainless steel frame construction for long-lasting and reliable operation and are equipped with PLC controls allow for easy set up and operation.

Products and Systems

Model ASL- LFC

Aslan's LFC Series of continuous polymer systems are the complete solutions to neat liquid polymer make-down. The process is set up with a high concentration of polymer allowing a greater holdup of aging product. The design results in floor space savings as less water is stored. The systems are designed to run unattended between fillings of the polymer tote.

Model ASL- LFB

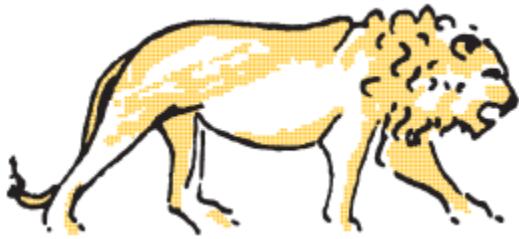
In the Batch Feed systems, the selected chemicals are fed using a chemical feed pump or by discharge from a calibrated vessel and proportion the feed according to the volume being treated. These systems meter chemical to the water as calibrated. Feed may be provided by gravity using the required valving system.



Process description

The liquid feeder processes are set up with either high or low polymer concentrations, depending on the application. These systems are designed to run unattended between fillings of the polymer tote.

With a high concentration of polymer a greater holdup of aging product is possible, resulting in floor space savings since less water is stored. Lower concentrations are possible as well, due to



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the high velocity water layer of the primary wetting stage and the rapid recirculation of a tight loop ensuring a high mixing energy zone for a very short duration. The polymer then quickly leaves the system to achieve maximum product activation without damage to the polymer chains.

Selected series of pumps are available to enhance mixing action where polymer is hard to mix.

The dilution water is a fixed flow, even with varying inlet pressures. The use of the optional water and polymer flow alarms ensure that an out of spec solution is not made. The polymer can be strained with an optional basket strainer prior to entering the metering pump to protect the metering pump's check valves from plugging. The wetted components are 316 Stainless Steel, Viton, and Teflon.

System Advantages

- Robust, Simple, and Versatile
- Rugged stainless steel frame construction for long-lasting, reliable operation
- Easy to set up and operate
- PLC controlled
- Polymer pump-up to calibration cylinder is standard
- Standard backpressure valves for consistent process control
- Diaphragm isolated pressure gauges
- Inlet water strainer and rotameter for visual flow indication
- Very easy disassembly for cleaning or servicing parts



Optional: Low water and low polymer flow alarm, basket strainer, neat polymer storage tank and 4-20mA control. Other available system components are age tanks, mixers, transfer pumps or metering systems.