

CLIF MOCK LGS-1 Liquid/Gas Pump

Cameron's CLIF MOCK™ LGS-1 Sample Pump is a pneumatic positive displacement pump that is ideal for sampling light/refined liquids or gases. Its stainless steel construction offers superior corrosion resistance and its piston-balance double-check design is highly effective for sampling product in low-pressure pipelines.

The LGS-1 collects each sample at line pressure, which helps eliminate evaporation and condensation, ensuring that the fluid collected for analysis truly is representative of the contents of the pipeline. The pump can collect up to 12 samples per minute in a fixed-volume receiver or balanced-pressure cylinder. Sample size is fully adjustable.

Pipeline pressure opens an inlet check valve, allowing pipeline fluid to collect in the sample chamber. When the pressure inside the sample chamber reaches the pipeline pressure, the valve closes, sealing the sample chamber from the pipeline. A controller actuates the pump by diverting air/gas from the pipeline or from an external source to the sample pump drive piston, causing the liquid or gas in the sample chamber to be evacuated to a sample receiver.

A purge valve manifold at the bottom of the pump allows easy connection to process piping, including fast-loop connections. Pressure-balanced seals increase pump efficiency and reduce the need for routine maintenance. Each pump comes with a 40µ filter to prevent debris from entering the sample chamber.



Pump Specifications

Sample Size:

- Liquid: 0.25 cc to 1.25 cc
- Gas: 0.05 cc to 1.00 cc

Maximum Sampling Frequency:

- 12 samples per minute

Temperature Range:

- -15° F to 375° F (-26° C to 190° C)

Maximum Operating Pressure:

- 1500 psi (200 bar)

Working Pressure of Sampling Media:

- 30 to 1500 psi (2 to 103 bar)

Process Fluid Connections:

- Inlet: 1/2" NPT male
- Outlet: 1/4" NPT female

Maximum Fluid Viscosity:

- 100 centistokes

NOTE: For applications requiring other specifications, contact Cameron's Measurement Systems division.

Sampling Systems

The LGS-1 pump is integral to Cameron's LGS 2000 Sampling System, which combines a controller, pump, regulator and gauge all in a single, ready-to-install package. See the LGS-2000 literature on the Cameron website for details.

Receivers and Accessories

Cameron's Measurement Systems division offers a variety of receivers, outlet gauges and other accessories for use with the LGS-1 pump. Contact Cameron for assistance.

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