

# + CLIF MOCK True Cut LGS-1

## Pneumatic positive displacement sample pump

**Sensia’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	-15° F to 375° F (-26° C to 190° C)
Maximum Operating Pressure	1500 psi (200 bar)
Working Pressure of Sampling Media	30 to 1,500 psi (2 to 103 bar)
Process Fluid Connections	Inlet: 1/2" NPT male
IK degree of protection	Outlet: 1/4" NPT female
Maximum Fluid Viscosity	100 centistokes
Ambient storage temperature	14 to 122 degF [-10 to 50 degC]

NOTE: For applications requiring other specifications, contact Sensia’s Measurement Systems division.

- + Sampling Systems** – The LGS-1 pump is integral to Sensia’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 Sensia website for details.
- + Receivers and Accessories** – Sensia’s Measurement Systems division offers a variety of receivers, outlet gauges and other accessories for use with the LGS-1 pump. Contact Sensia for assistance.

