

Light Liquid Sampling Systems

Field-Proven Design, Reliable Results

Light liquid sampling systems are designed to sample light liquid hydrocarbons such as propane, butane and other single-phase, refined products. Our innovative design captures thousands of individual samples that are combined to develop a representative, composite sample of the flowing pipeline. All equipment, except probe mounted sample pumps, are mounted on a simple skid or a multi-vessel system. In addition, the system is available with remote communications to meet process needs. With 60 years of experience, the system's quality is field-proven, delivering a reliable representative sample month-after-month, year-after-year.

Features and Benefits

- Positive displacement pump with integral balance feature
- Sample accumulator with power mixer to deliver accurate injection for the application
- Electronic controller for proportional-to-flow operation
- Factory assembled and skid or cabinet mounted for ease of installation
- Available with a variety of control options to meet process needs

Options

- Direct or remote mounted sample pumps
- Sample accumulator capacities: 1.5, 3 or 5 gallon
- Actuation: pneumatic or hydraulic
- ANSI 900 service
- Severe service elastomers



Specifications

Maximum operating pressure	124 bar (1,800 psig)
Pump displacement:	
Standard 3/8-in plunger	.25 to 1.8 cc/stroke
Optional 1/2-in plunger	0.8 to 3.2 cc/stroke
Optional 5/8-in. plunger	1.25 to 5.0 cc/stroke
Optional 1-in plunger	1.6 to 12.8 cc/stroke
Operating temperature range	17°C to 60°C (0°F to 140°F) ¹
Power supply options	
Pneumatic	120 VAC @ 1 AMP VDC
Hydraulic	120 VAC @ 20 AMP
Flow signal	Customer supplied*
Actuation gas	100 psi instrument quality gas

¹At temperatures below 0°C (32°F) conditioning of the actuation gas supply may be required. Operation at extreme temperatures may affect system performance.

*Refer to manual section 4, system control option

System Schematic

