



## What is the Simplex Sampler

The Micropure Filtration Simplex Sampler is an in-line product-sampling device for liquids that allows you to monitor product purity at critical stages of the production process. The Sterile, closed-system process automatically draws specific amounts of liquid product samples at predetermined intervals and locations. This provides early detection and isolation of potential contamination areas.

## Why you need an automatic sampler

Especially important in processing applications where bacterial and compositional control is critical, the Simplex Sampler saves time and money in system evaluation and product loss.

Because the Simplex Sampler accurately locates potential contamination points in your system, you can isolate and treat affected areas quickly resulting in considerably less downtime compared to an exhaustive inspection of your entire system. The samples are drawn at automatic specific time intervals, early detection of problems means less product loss.

## How the Micropure Simplex Sampler Works

At preset intervals, a seated pneumatic valve attached to the process line opens, allowing liquid product to pass through the sampling probe into the sterile sampling bottle. The steri-cap lid prevents contamination of the sampling bottle but allows any overpressure in the bottle to be vented.

The control panel regulates the frequency of the sampling as well as the volume of the sample to be taken. Samples can be drawn up to 10 times per minute and you can select from draw time ranging for .1 to 99 seconds to regulate sample volume desired. Samples can be drawn independently of the automatic program by activating a manual override switch on the control panel. Up to four sampling lines can be connected to a control panel to monitor four separate points in your process line. Complete sterility is ensured throughout the closed collection process and a "lock-on" switch permits CIP solution to completely sanitize the Simplex Sampler system concurrently with the sanitization of your entire processing system. Sampling bottles can be sterilized for repeat uses.

Automated sampling of your product over consistent volumes and intervals simplifies testing procedures and provides assurance that your high quality standards are continually met during every stage of your process.

## Designed for a wide range of applications with these outstanding features:

- Easy to use control panel
  - electronically controls cycle frequency and draw time
  - operates up to four sampling times
  - PLC Compatible
- Designed for Sterile Applications
  - meets requirements for applicable 3A Sanitary Standards
  - Sterile, Closed collection process ensures system sterility
  - locks open for CIP sanitization cycle
  - Sampling bottle can be sterilized for reuse
  - pneumatic valves made of 304 aisi stainless steel
  - valves can be steam sterilized in place, autoclaved or sanitized during CIP process
  - Seals guaranteed up to 150°C/302°F

## Technical Data

Operating Current	110 V/60 Hz
Power Consumption	300 watts
Minimum Line pressure	20 psi



MICROPURE® FILTRATION

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\* Check for chemical compatibility of PTFE prior to selecting a sanitizing agent.  
\*\* Reference laboratory report RP5268-challenge organism bacillus Stearothermophilus at a concentration of  $1 \times 10^5$  spores/ml.

