

# BVS Samplers –

## The Best Automatic Samplers!

BVS Samplers meet 100% of ASTM Standards.

- Continuous, Unattended, Composite Liquid Sampling
- Direct Sample Piping and Refrigeration System Maintains Sample Integrity
- Programmable Sample Size and Collection Frequency
- Versatile, indoor/outdoor installation near sample source or high traffic area
- Can safely gather samples from remote or explosive environments
- Easy-To-Install — Factory Assembled, Pre-Wired, and Pre-Piped
- Weatherproof, Corrosion-Resistant Cabinet and Components
- Tamper-Proof — Key Lock, Three-Point Security Latch on Cabinet Door
- Submersible Sampling Probe or Submersible Pump Furnished as Standard
- Fully Customizable to fit your specific needs or environment
- Unparalleled technical support
- Automatically Resets Timers after a Power Interruption



*BVS has been the leader in automated liquid sampling for over 30 years!*

**Accept no substitute!  
BVS is the Best!**

Our clients say it best:

*"Our Sampler works well with little or no maintenance. Requests for parts and materials are handled promptly and courteously."*

— Anheuser-Busch, Inc.

*"Over all quality and performance were outstanding. BVS lives up to their promise of prompt, reliable service."*

— Washington Suburban Sanitary Commission

*"Our BVS sampler has been operating on demand for over 10 years without a hitch. Their knowledgeable, prompt and courteous service is unmatched!"*

— AFCO

*"Our SPE-400 and PPER-400 consistently exceed our performance and accuracy expectations. The equipment's ease of operation and BVS's sound technical advise work well for us."*

— Hershey Foods Corporation



**BVS**

**BVS, INC.**

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MADE IN USA

# Automatic Liquid Samplers



**The Most Maintenance-Free Automatic Samplers!**



# Engineered for continuous trouble-free operation. Built to last.

## Maintenance-Free Automatic Liquid Sampling Station

The BVS, SPE-400 automatic liquid sampling station is a complete, factory built, turnkey system designed to take composite samples on an unattended basis. Its pneumatic – electric operation is equally effective in performing tasks from batch control to monitoring effluents.

The model SPE-400 is intended for permanent on-site installation anywhere liquid sampling is necessary. The cabinet is constructed of durable, 1/8 inch, reinforced,

PPER-400



NEMA I

primed aluminum protected by an electrostatic powder coat. It provides a significant increase in the efficiency and cost effectiveness of continuous sampling by eliminating the time, labor and money attendant to manual collection. Its automatic sampling frequency can be based on a predetermined schedule by using the built-in rate timer or, alternatively, on proportional flow of the stream by using an external flow meter.

SPE-400



NEMA IV

**Are you** spending too many man-hours on manual batch control?

**Are you** confident that you are being billed correctly and not overcharged?

**Are you** being surcharged for the wastewater that is discharged from your facility?

**Do you** know what type of sampling method is being used to arrive at your surcharge billing?

**Are you** using the wrong type of sampler and sampling method which can result in incorrect results and costly billings?

## Features

- Panels installed without tools, using 1/4-turn fasteners.
- Can sample from pressurized lines.
- Higher initial velocity than peristaltic and vacuum type samplers.
- Standard lift exceeding 40' — customized lift to 80'.
- Maintenance-Free Design for long term, trouble-Free operation.
- All BVS Automatic samplers meet ASTM D3370-76, Page 29.1, Recommended methods for proper sampling.
- All BVS Automatic samplers carry a "Two Year Warranty" on parts and labor.
- Samplers are available as NEMA I, NEMA IV and NEMA XII. Other styles available to meet your individual specification or requirements.
- BVS samplers do not use suction as used by peristaltic or vacuum type samplers as this concept changes the solubility of the liquid by disturbing the gas/liquid balance. For this reason, suction type samplers should not be used when measurements to be made concern dissolved gases such as oxygen or carbon dioxide.
- U.S.A. Made in Honey Brook, Pennsylvania.
- Fully ventilated and heated cabinets with control thermostats.
- Free technical advice is always available.

## Pumps Employing suction...

"Because pumps employing suction principles disturb the gas/liquid balance, use a submersible type pump for pumping samples from (liquids) whenever the measurements to be made concern dissolved gases..."

(ASTM, D3370-76, P. 29.1)



Proprietary sample probe allows accurate samples in a wide variety of environments.

**All BVS liquid samplers** utilize the flooded-suction concept of operation. With the sampling probe or pump submerged in the liquid to be sampled, liquid enters the sampling device by gravity, thereby giving a true representative sample of the liquid at that particular strata. The use of peristaltic or vacuum pumps, the suction concept of operation, does not give a true representative sample of the liquid that is being sampled. The use of suction changes the solubility of the sample by changing the gas/liquid balance. This change in solubility makes it impossible to get accurate measurements of dissolved gases.



TFE sample probe for reactive environments. Other customizations are available.

**We look forward to adding your name to our long list of satisfied customers.**



You receive a Two-Year Warranty on every BVS sampler and our promise to be there when you need technical advice or assistance. Spare parts are only a phone call away, as we stock over three-hundred thousand dollars in spare and replacement parts. Our reputation is the finest in the industry and our customers are the biggest and the best in the U.S.A.