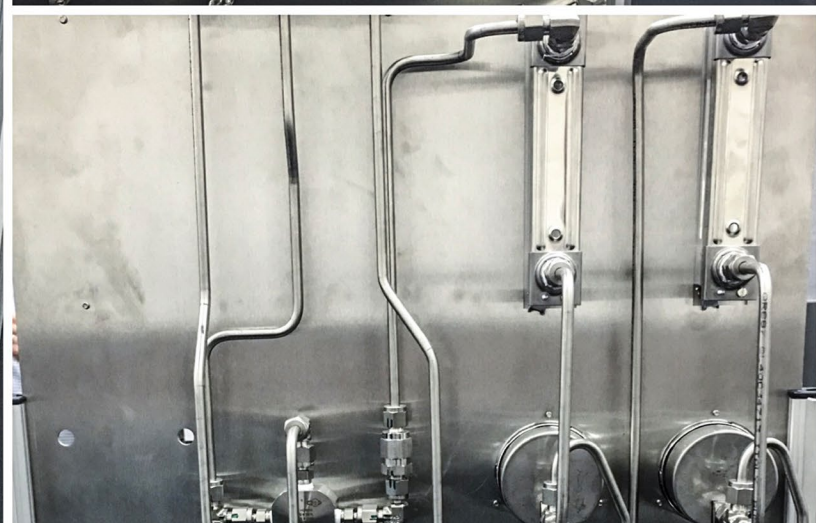
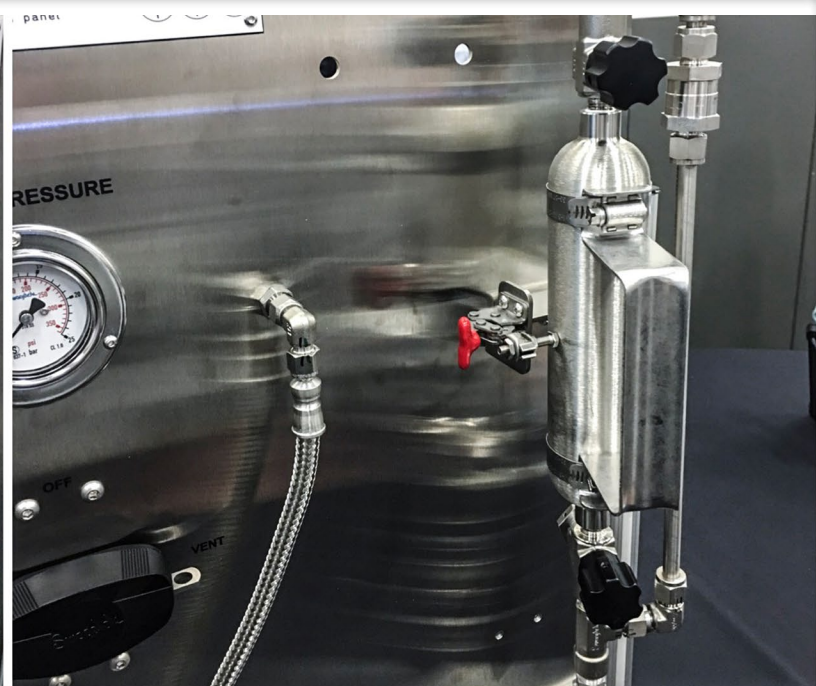


# GRAB SAMPLING

PROVIDED BY SWAGELOK COLUMBUS|CHARLESTON



## CLOSED LOOP GRAB SAMPLE SYSTEMS

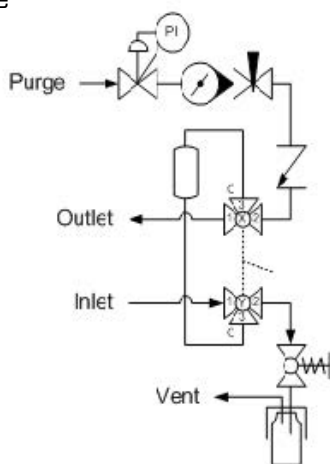
- Liquid, Gas, and Two-Phase
- Highest Quality Components
- Engineering Support
- Standard and Custom Designs
- Swagelok Warranty

# IMPROVE RELIABILITY. MAXIMIZE SAFETY. LIMIT EMISSIONS.

## BOTTLE SAMPLERS

Swagelok's fixed volume, closed loop grab sampling systems are for use with low vapor-pressure liquids. Systems use a septa lidded bottle of specified volume to collect a sample safely for lab analysis. These systems have a flow-through design ensuring a timely and representative sample. Sample volume is captured and isolated from the process, allowing for a reduction in pressure prior to filling the bottle. To help safeguard an operator, a duel needle design with a spring loaded delivery valve delivers the sample only when a bottle is seated and vented appropriately.

- Fixed Volume Liquid
- Low Vapor Pressure Liquids
- Single Valve Operations with Secondary Block Valve to Release Sample into Bottle
- Precise Sample Sizes
- Purge feature cleans out system after each sample
- Low or High Pressure Applications
- Options: Purge, Sulfinert, Heat/Cooling, Drains



## CUSTOM SAMPLERS

Swagelok Columbus is local and can provide rapid response to your custom grab sampling needs. Our trained engineers have extensive experience to assist you with the design to ensure proper sample delivery and capture to maintain timely and representative samples. Panel designs can be completely custom or simply an adaptation of our standard designs to meet your specific plan application needs.

- Sample Tap to Panel Support
- Exotic Alloys
- Flexible Layouts
- 3D CAD
- Timely Delivery

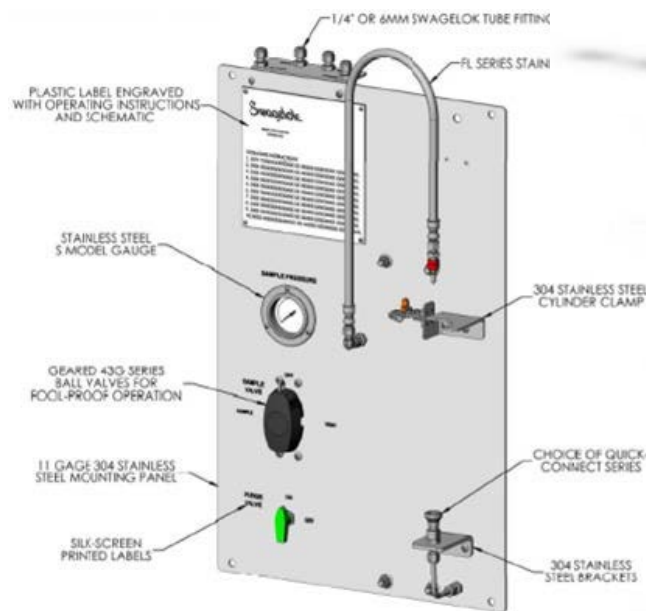
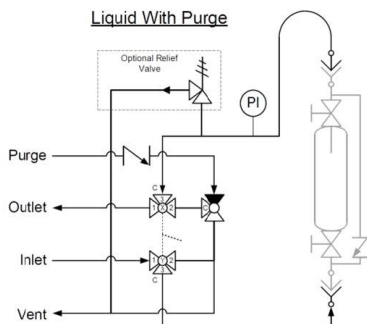
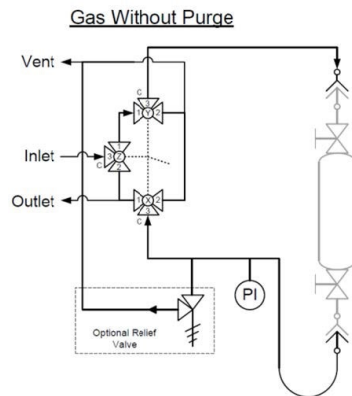


# RECEIVE REPRESENTATIVE AND ACCURATE SAMPLES.

## CYLINDER SAMPLERS

Swagelok's closed-loop, cylinder grab sampling systems are for use with gas, liquid and two-phase processes. The single valve operation of these systems provides a simple to use design for isolating and capturing the process. Multiple options are available and are easily customized to meet your needs.

- Gas, Liquid or Two-Phase
- Single Valve Operation
- Several Cylinder Sizes
- Closed Loop
- Options: Purge, Sulfinert, Heat/Cooling, Drains



## SAMPLE CYLINDER ASSEMBLIES

Swagelok grab sample cylinder assemblies feature the highest quality components for safe delivery, capture and transportation of samples. Assemblies are available with a variety for sample volumes with accessories such as quick-disconnects, valves, outage tubes, rupture discs and relief valves, to meet your application needs.

From project start to completion, Swagelok ensures your operation's unique requirements are seamlessly met through partnership between Swagelok Columbus|Charleston and our factory location.

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From our Sales and Service Centers in Columbus and Charleston we can provide you with a wide variety of service solutions. Our quality, superior performance and reliability will reduce your costs in designing, sourcing and assembling components. To take advantage of Swagelok's Custom Solutions offerings, please contact your authorized sales and service representative.

All Custom Solutions offerings are developed in accordance with the guidelines of Swagelok's ISO-based quality system to ensure quality, safety, and reliability. These guidelines enable us to distribute Swagelok-approved fluid system components and fabricate and install piping systems in accordance with ASME B31.1 and B31.3. Our Custom Solutions assemblies carry the Swagelok Limited Lifetime Warranty. For a copy, visit [www.swagelok.com](http://www.swagelok.com) or contact your local authorized sales and Service Center.