

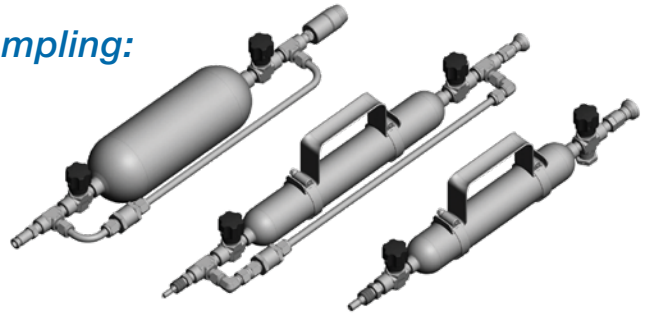
SAMPLE CYLINDERS 101



Swagelok world-renowned Gas Grab Sampling Assemblies keep you safe, help control processing and operational costs, and deliver premium-quality product outputs

A. Know and master the 4 Basic Rules of Sampling:

1. The sample must **represent the process**
2. The sample must **be timely**
3. The sample must **be pure**
4. The sample must **be safe**



B. Choose the “right” Sample Cylinder for your Gas or Volatile Liquid application:

- Does it employ easily operable quick-connects for safe and efficient connecting/disconnecting from your sampling point?
- Does it have a smooth internal neck transition to help eliminate trapped fluid and enable easy cleaning?
- Will it provide adequate overpressure protection for optimum operator safety?
- Is it of the correct material composition and finish for the dangerous gases and/or liquids being sampled?
- Are bypass lines incorporated for purging toxic sample remnants?
- Is it designed and built to last, especially when samples must be transported long distances?



C. To safely and properly fill a Sample Cylinder:

- Use a vertical orientation
- For volatile liquids, fill from the bottom to the top; use an outage tube
- For gases, fill from the top down so any accumulated line condensation can be flushed out through the bottom



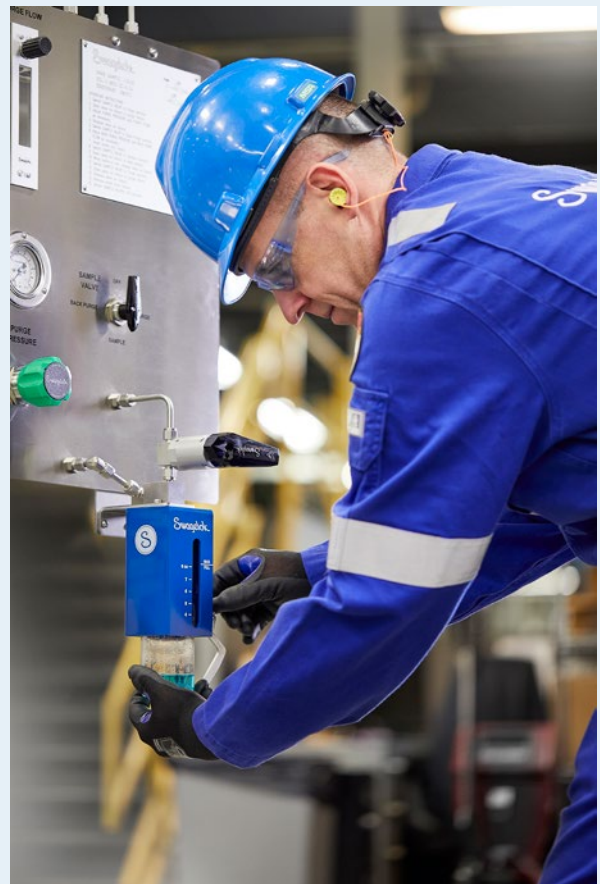
D. To best maintain your Sample Cylinders:

- Inspect and pressure test at least once per year
- Recertify every five years
- Are any key system components leaking to cause cylinder damage?
- Are there signs of corrosion due to compatibility issues with your sample?
- Are any internal surface conditions present...such as absorption?
- Is all overall system componentry properly installed?



Swagelok Grab Sampling Valve

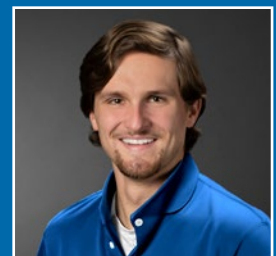
- Improves operator safety
- Reduces fluid system maintenance
- Enhances sample quality
- Minimizes potential for system leaks






For complete information, contact:

Tim Davis, Sales Engineer

tim.davis@swagelok.com • 412.761.3212



P: 412.761.3212 **W:** pittsburgh.swagelok.com

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