

GRAB SAMPLING:

Selecting the Right System Helps Ensure Product Quality and Overall Operational Efficiency

Definition:

The cost-effective collection of a fluid or gas sample in a pipeline, tank, or other system with the intent of transporting such sample to a lab for analysis.

Why Do it:

To validate process conditions, product specifications, and environmental emissions.

Your First Major Decision:

Determining the correct container type to guarantee your sample remains in the state in which it was obtained as it makes its way to your lab.

Available options, depending on your application:

- **Bottles** – for non-pressure-containing liquid samples. Low cost. Easily replaced, when necessary. Most have self-sealing septum caps to eliminate spillage and evaporation during transportation.
- **Cylinders** – for capturing media that's under pressure. Sample integrity is protected as evaporation and chemical fractionation are prevented. Made with seamless tubing for consistent wall thickness, size, and capacity.

Critical Criteria to Consider When Making Your Choice:

- **Pressure** – Bottle or cylinder, never exceed your system's maximum rated pressure.
- **Temperature** – Cylinders and bottles each have a maximum (and often minimum) fluid operating temperature.



- **Hazardous Material** – Make certain that your selection protects the operator and the environment from process fluid leakage.
- **Materials of Construction** – Make sure that all involved materials are compatible with the process fluid – so that no sample's accuracy can be compromised.
- **Surface Treatments** – Monitor whether certain surface treatments reduce the absorption or adsorption of the sample fluid into metallic surfaces.
- **Purge** – Include a purge methodology to help flush/remove contaminants from sample lines.



Proven and Trusted Local Support

Swagelok Pittsburgh | Tri-State Area can expertly design and/or build safe, extremely reliable, leak-tight Grab Sampling Systems – with bottles or cylinders – that will deliver ultimate performance in even the most challenging applications and operating conditions. Our panels are masterfully constructed with genuine Swagelok componentry, are fully warranted by Swagelok Company, and are delivered as one part number.



**Swagelok
GSL Panel**



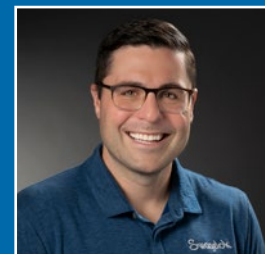
**Swagelok
GSM Panel**

Support: Visit www.swagelok.com/en/blog/how-to-select-the-right-grab-sampling-system and www.swagelok.com/en/blog/grab-sampling-reducing-plant-costs

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