



SWAGELOK® GRAB SAMPLING SOLUTIONS

**CONFIGURABLE. LOCAL. RELIABLE**

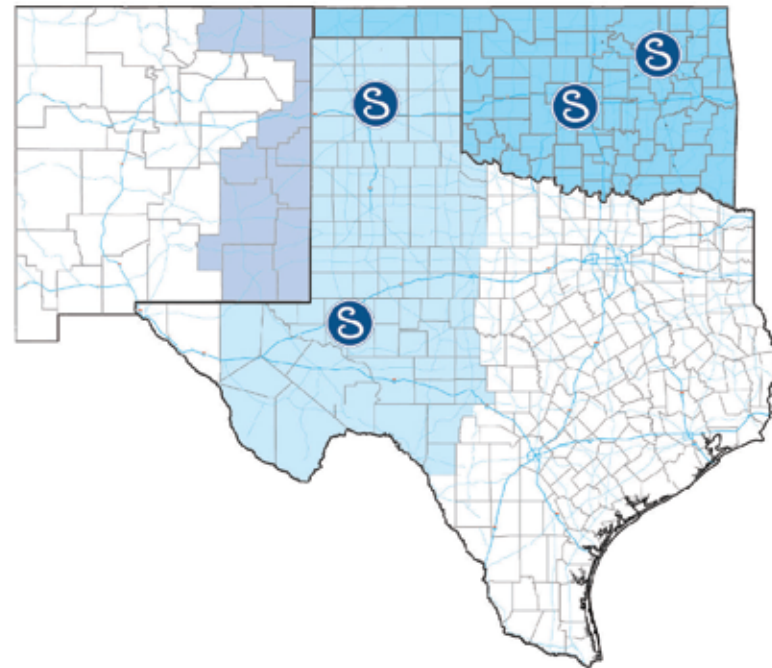
### Product Matrix

Ordering Number	Pressurized Storage	Sample Receiver	Sample Phase	Continuous Flow	Purge	Fixed Volume	Back Purge
GSM-L-1(-N)	Yes	Cylinder	Liquid	No	No	Yes	No
GSM-L-1(-P)	Yes	Cylinder	Liquid	No	Yes	Yes	No
GSM-L-2(-N)	Yes	Cylinder	Liquid	Yes	No	Yes	No
GSM-L-2(-P)	Yes	Cylinder	Liquid	Yes	Yes	Yes	No
GSM-G-1(-N)	Yes	Cylinder	Gas	No	No	No	No
GSM-G-1(-P)	Yes	Cylinder	Gas	No	Yes	No	No
GSM-G-2(-N)	Yes	Cylinder	Gas	Yes	No	No	No
GSM-G-2(-P)	Yes	Cylinder	Gas	Yes	Yes	No	No
GSL1	No	Bottle	Liquid	No	No	No	No
GSL2	No	Bottle	Liquid	No	Yes	No	No
GSL3	No	Bottle	Liquid	Yes	No	No	No
GSL4	No	Bottle	Liquid	Yes	Yes	No	No
GSL5	No	Bottle	Liquid	No	Yes	No	No
GSL6	No	Bottle	Liquid	No	No	Yes	No
GSL7	No	Bottle	Liquid	Yes	No	Yes	No



### LET US HELP YOU WITH YOUR GRAB SAMPLING SOLUTIONS

From our Sales and Service Centers in Tulsa, Oklahoma City, Amarillo and Odessa, 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 Grab Sample System offerings, please contact your authorized sales and service representative.



Our Grab Sample System offerings carry the Swagelok Limited Lifetime Warranty.

For a copy or to learn more about Swagelok Grab Sample Systems, visit [www.swagelok.com](http://www.swagelok.com).



Oklahoma | West Texas

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Grab Sampling Systems

# LOCAL SOLUTIONS, GLOBAL SUPPORT

Swagelok now offers 15 standard grab sample panel designs that can be customized to your specific needs.

Swagelok® Oklahoma | West Texas is bringing new solutions to grab sampling

**CONFIGURABLE. LOCAL. RELIABLE.**



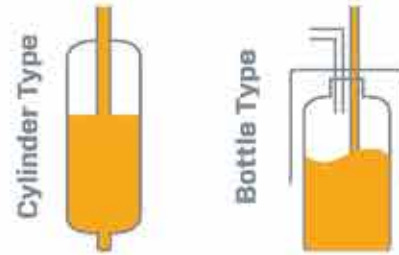


SWAGELOK®

LOCAL SOLUTIONS, GLOBAL SUPPORT

If a configurable sampling system, with local service and support, is important to you – count on Swagelok to provide a reliable system that ensures safe, efficient sample capture.

## SWAGELOK OFFERS TWO CATEGORIES OF GRAB SAMPLE SYSTEMS:



The Swagelok grab sampling systems provide solutions to satisfy gas and liquid non-slurry sampling service in a consistent, reliable package. Two system types allow for capture into one of two types of containers – pressure-containing metal cylinders as found in the Grab Sample Module (GSM) or non-pressure-containing glass or polyethylene bottles as found in the Liquid Only Sampling Module (GSL).



A sample cylinder is required for every GSM system and should be ordered separately when purchasing a new GSM. Various configurations of sample cylinder assemblies, defined as Grab Sample Cylinders (GSC), are available.

### DID YOU KNOW?

A key feature of the GSM is the switching valve that directs flow. Using the Swagelok 40G series ball valve for this switching valve, configurations are available with either 2 or 3 valves. This allows for simultaneous control of fluid routing, reducing the number of sequencing steps required to draw a sample.

The likelihood of errant sampling is reduced and a clear indication of sequencing is provided to the operator. This valve assembly is a standard on all GSM panels as well as fixed volume GSL panels.



## SWAGELOK GRAB SAMPLING SYSTEM BENEFITS

- Unparalleled sampling expertise
- Local assembly and support
- One supplier for all the components
- Best practices integrated into standard designs
- Provides a simple, effective way to safely collect samples
- Keeps samples in their representative state for analysis
- Can be adapted to meet system requirements
- Assembled and tested by certified technicians
- Easy to install and operate
- One part number
- Backed by the Swagelok Limited Lifetime Warranty



SWAGELOK®

WE CAN:



## ASSESS

Does your sampling system provide you with a repeatable and representative sample? or are sampling challenges costing you time and money? The team of trained and certified Custom Solutions technicians and engineers at your Local Swagelok Sales and Service Center will work with you to evaluate your current sampling system and determine your needs.

For an even more in-depth look, Swagelok Evaluation and Advisory Services offers an expert analysis of your grab sampling system. Our experienced experts will visit your facility, evaluate your systems and advise on enhancements that will improve your operations. We'll identify ways to eliminate potential safety concerns, obtain more representative samples and improve the reliability of your grab sampling systems.



## RECOMMEND

Ensuring your grab sampling system is suitable for your particular purpose is key. Temperature, Pressure, Phase, Container type, Materials of Construction and where the panel will be installed are just a few of the criteria to consider in order to properly specify a grab sampling system.



## CONFIGURE

Using our 15 standard panel designs as a platform, we can work with your team to:

- Substitute comparable Swagelok and non-Swagelok (non-competitive) products.
- Add products within the existing schematics – sample coolers, flowmeters, shut-off valves, drain valves, etc.
- Make changes in layout including structural changes/additions – panel/bracket materials, enclosures, etc.
- Convert to larger/smaller tube size (or metric)
- Alternate materials of construction
- Flow / pressure drop calculations (and make changes based on results)
- Sizing of sample coolers/heaters and enclosure heaters (using vendors' applications engineering)



## ASSEMBLE

Every local Swagelok technician has undergone a comprehensive training and certification program, that is repeated every three years, to ensure your sample panel will be assembled to strict guidelines and to your specifications.

In addition, our Certified Engineer will monitor each step of the process to ensure quality and consistency.



## TRAIN

Swagelok is committed to helping you work safer and smarter. Upon completion of your grab sample panels, a representative from your local Swagelok sales and service center can provide hands-on training to your technicians on proper use and maintenance.

For a more in-depth look at Industrial Sampling Systems, you may consider Swagelok's Sampling Systems Training. Swagelok's hands-on sampling system training is one more way we can help your team prevent, diagnose and eliminate issues that can result in costly inefficiencies.