



Swagelok Pittsburgh | Tri-State Area

PRESENTING
YOUR LOCAL SWAGELOK®
APPLICATION SOLUTIONS



Grab Sampling Systems



Mechanical Seal Support Systems



Gas Distribution Systems

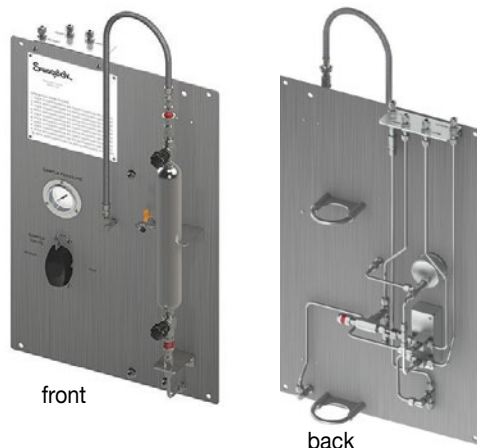
*Advancing Your
Fluid-System Safety,
Performance, and
Profitability!*

GRAB SAMPLING SYSTEMS

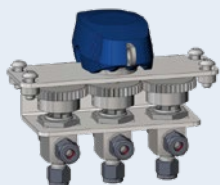
GSM: Grab Sample Module

Closed-looped systems pull from a positive-pressure process and return back to the process at a lower pressure location, using differential pressure to drive the fluid through the system.

- Continuous flow configurations enable the sample transport lines to continue flowing while sampling
- GSM left in bypass or sample position indefinitely keeps transport lines fresh and ready for sample capture
- A grab sampling cylinder (GSC) is docked, and process fluid is continuously circulated within to maintain process conditions



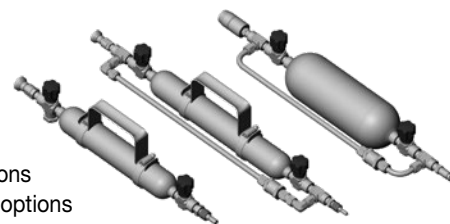
GSM panels feature a **switching valve configuration** with two or three Swagelok 40G series ball valves, facilitating simultaneous control of fluid routing. These configurations reduce the number of overall steps required for sampling and give a clear indication of sequencing to the operator, reducing the likelihood of errors.



GSC: Grab Sampling Cylinders

Continuously circulates samples to maintain process conditions to increase chances of a representative sample. Various configurations are available:

- Five cylinder sizes (150, 300, 400, 500, and 1000 cm³)
- With or without purge bypass tube
- Stem and body protectors
- Cylinder treatment/certification options
- Multiple cylinder and valve material options
- Choice of quick-connect fittings and accessories (outage tubes, rupture discs, handles)
- PTFE-coated inner wall, SilcoNert® coating, or electropolished inner diameter
- DOT- or TPED-approved for transportation



GSL: Grab Sample Liquid

A liquid-only system that can be used where the process fluid is not at risk of fractionating when stored at atmospheric pressure.

- Can use lower-cost glass or polyethylene laboratory bottles to draw and store samples
- Bottles provide immediate feedback on the visual quality of the sample stream
- Samples can be drawn and transported without the risk of spillage or evaporation



Swagelok Grab Sampling Valve

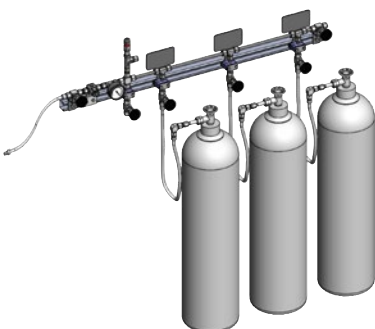
- Improves operator safety
- Reduces fluid system maintenance
- Enhances sample quality
- Minimizes potential for system leaks



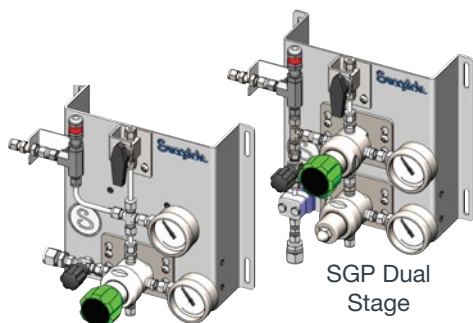
GAS DISTRIBUTION SYSTEMS

Designed to ensure minimal leakage and maximum operator safety. All components are clearly labeled for ease of operation.

- Substantially reduce potential for gas leaks
- Fully assembled and tested to ensure reliability and reduced maintenance
- Optimize gas usage
- Covered by the Swagelok Limited Lifetime Warranty



SSI for Three Bottles

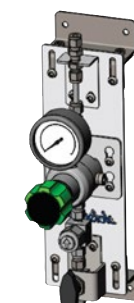


SGP Single Stage

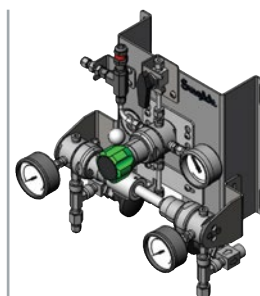
SGP Dual Stage



SPU with Top-to-Bottom Flow



SPU with Bottom-to-Top Flow



SCO with Outlet Pressure Regulator

Offered in four standard panel designs that safely, effectively, and efficiently get gases from a high-pressure source to where they need to go – at the required pressure and flow rate.

MECHANICAL SEAL SUPPORT SYSTEMS

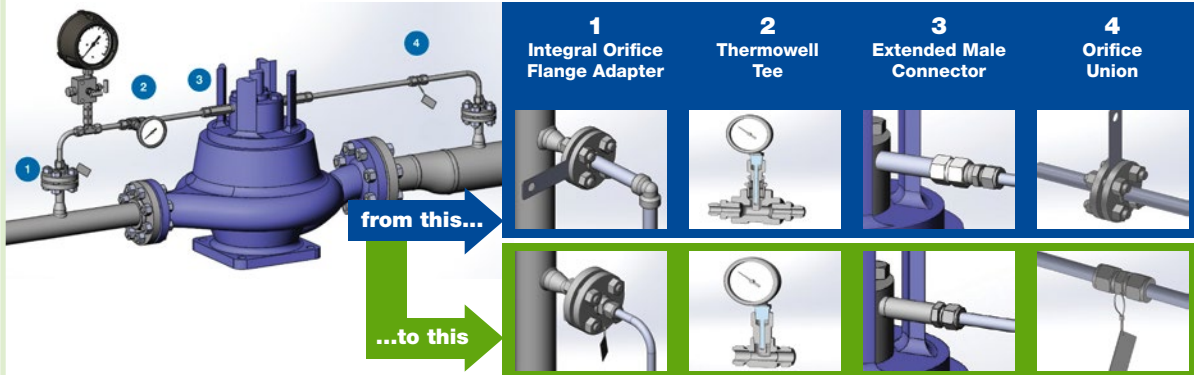
Offered as easy-to-install kits or assemblies – and available in multiple API Plan configurations, our designs feature the minimum arrangement of components as specified by API 682. No pipe threads and limited number of overall connections results in significantly less chance of leakage.

Seal Plan Kits

A collection of components that are used to help ensure the support system is properly installed or connected to the pump. Some API plans are detailed only as a kit of components that are ready for field installation due to the simplicity of the arrangements.

Seal Plan Assemblies

Panels, seal pots, or skid systems that comprise most of the API seal support plans. Ordering and numbering structure means users can select a variety of configurations and additional system components to meet specific site or application requirements.



1

Integral Orifice Flange Adapter: Replace threaded or welded flange assemblies with a one-piece flange adapter with integral orifice.

2

Thermowell Tee: Reduce threaded connections and monitor temperature with integrated thermowell pre-welded into tube fitting tee for ease of installation.

3

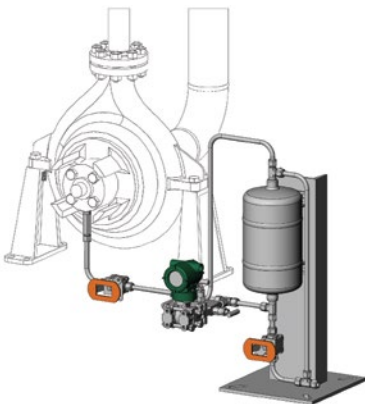
Extended Male Connector: Eliminate threaded pipe and potential leak points with a single fitting. Available in 4-inch and 6-inch lengths so you can clear the shroud and go straight from the gland to your tubing run in one piece.

4

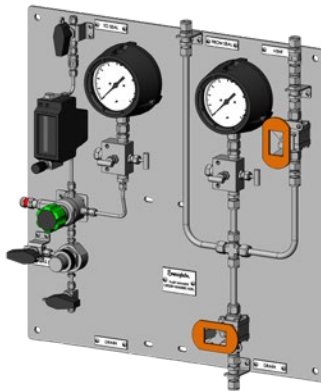
Orifice Union: Easily add an orifice to a flush system. This fitting makes welding bulky flange assemblies unnecessary. Tagged for visual identification.

Configurable Plans

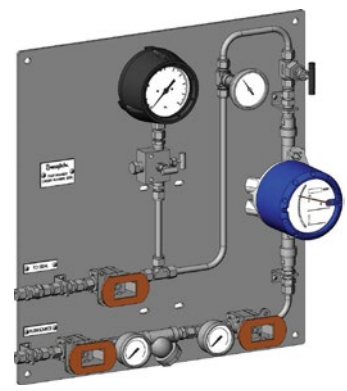
All Swagelok seal support plans are easy-to-use/maintain and are designed for ultimate safety and performance according to API 682-recommended best practices.



Atmospheric Plans
51, 62, 65A, 65B



Between Seal Plans
52, 53A, 53B, 53C, 54, 55, 72, 74, 75, 76, 72/76



Process Side Plans
11, 12, 13, 14, 21, 22, 23, 31, 32, 41

Swagelok Pittsburgh | Tri-State Area's

DESIGN & BUILD

Custom Fabrication Services

We can help you save time, money, and worry when your production schedule is tight.



State-of-the-Art, 5,000-square-foot Working and Staging Area



5-ton Overhead Crane, with 18-foot clearance

- Dedicated Swaging, Bending, Coiling, Orbital Welding, Kitting, Packaging/Wrapping, Inspection, Testing, and Cleaning Stations

- Climate-Controlled Environment

- Gas Purge Panel and Enclosures
- Distribution Manifolds
- Custom Flex Hose Assemblies
- High-Volume Bent Tubing Assemblies
- Sample Cylinder Assemblies
- Standard Instrumentation Mounting Kits
- Ultra-High-Purity Welded Manifolds
- Gas Delivery and Distribution Panels
- Gas and Liquid Grab Sampling Panels
- Mechanical Seal Support Systems
- Instrumentation and Transmitter Assemblies/Enclosures
- High-Pressure Test Stands
- Simple and Highly Complex Tube Bending
- Heat Exchanger Tubing Coils
- Gauge Block-and-Bleed Valve Assemblies
- Automated Ball Valve Assemblies
- Pre-Set Relief Valves
- Maintenance Programs for Sample Cylinders and Flexible Hoses
- CAD and P&ID Design Assistance



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