

MAXIMIZING
Worker and Site Safety

MINIMIZING
Fugitive Emissions

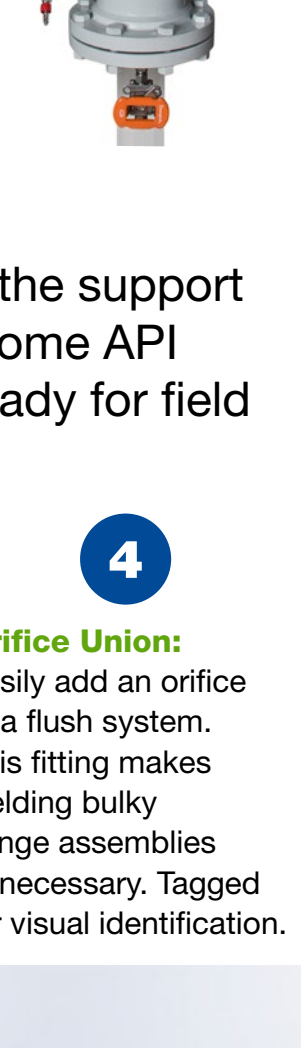
MASTERING
Application Challenges

**Field-Proven
Cost-Effective
Productivity-Boosting**

Swagelok's Application and Strategic Support Solutions are your trusted resources for tackling even the most demanding Midstream challenges:

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.

1

2

3

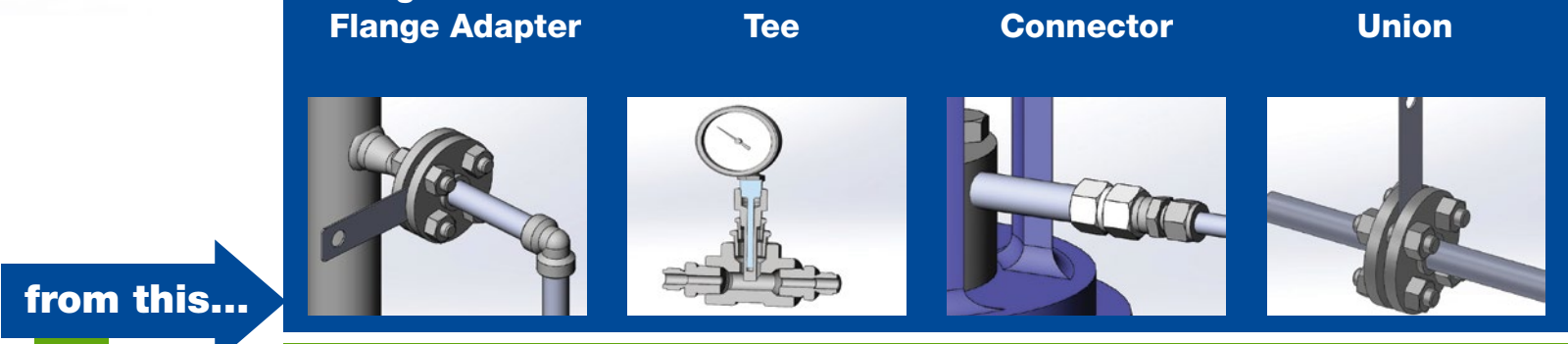
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Integral Orifice Flange Adapter: Replace threaded or welded flange assemblies with a one-piece flange adapter with integral orifice.

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

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.

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

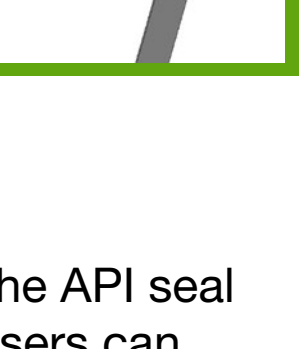
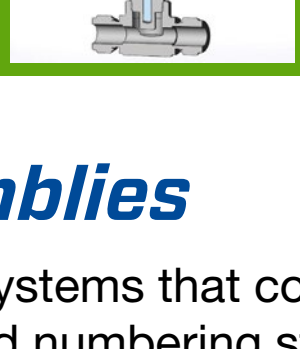
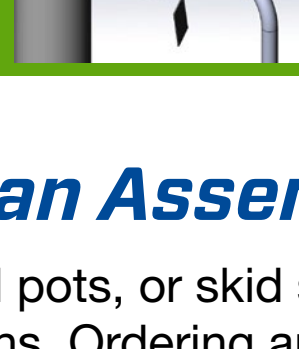


1
Integral Orifice
Flange Adapter

2
Thermowell
Tee

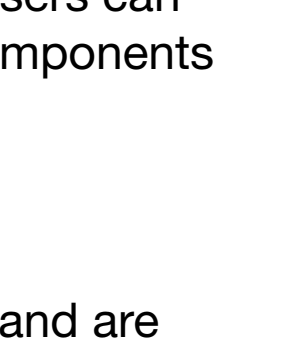
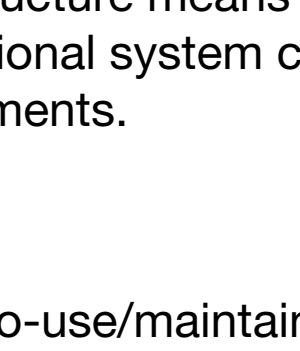
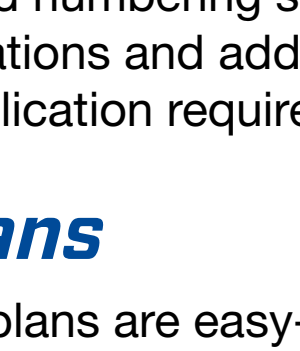
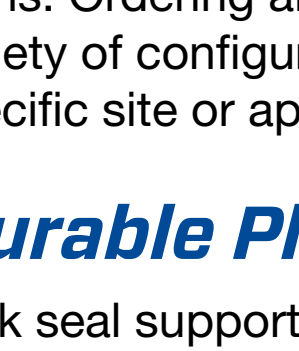
3
Extended Male
Connector

4
Orifice
Union



from this...

...to this



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.

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

Grab Sampling Systems

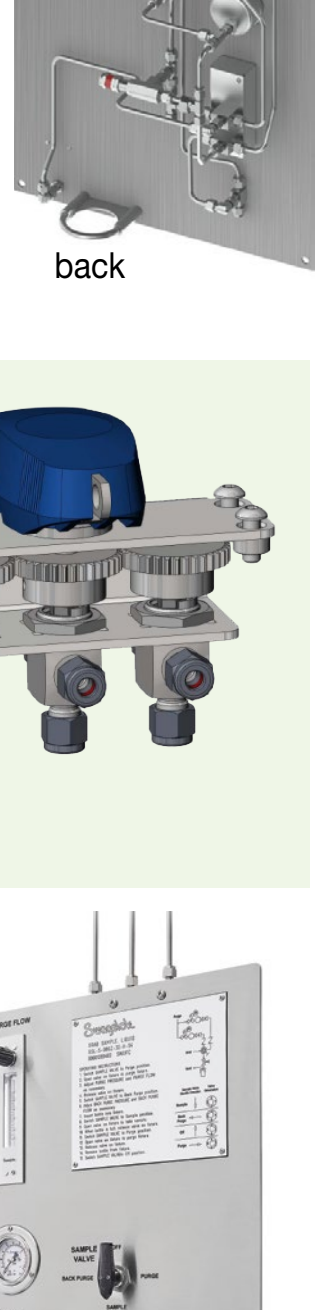
GSM: Grab Sample Module

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



front



back

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.



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



Training

TUBE FITTING INSTALLATION AND TUBE BENDING

Duration: 1 DAY

LEARNINGS:

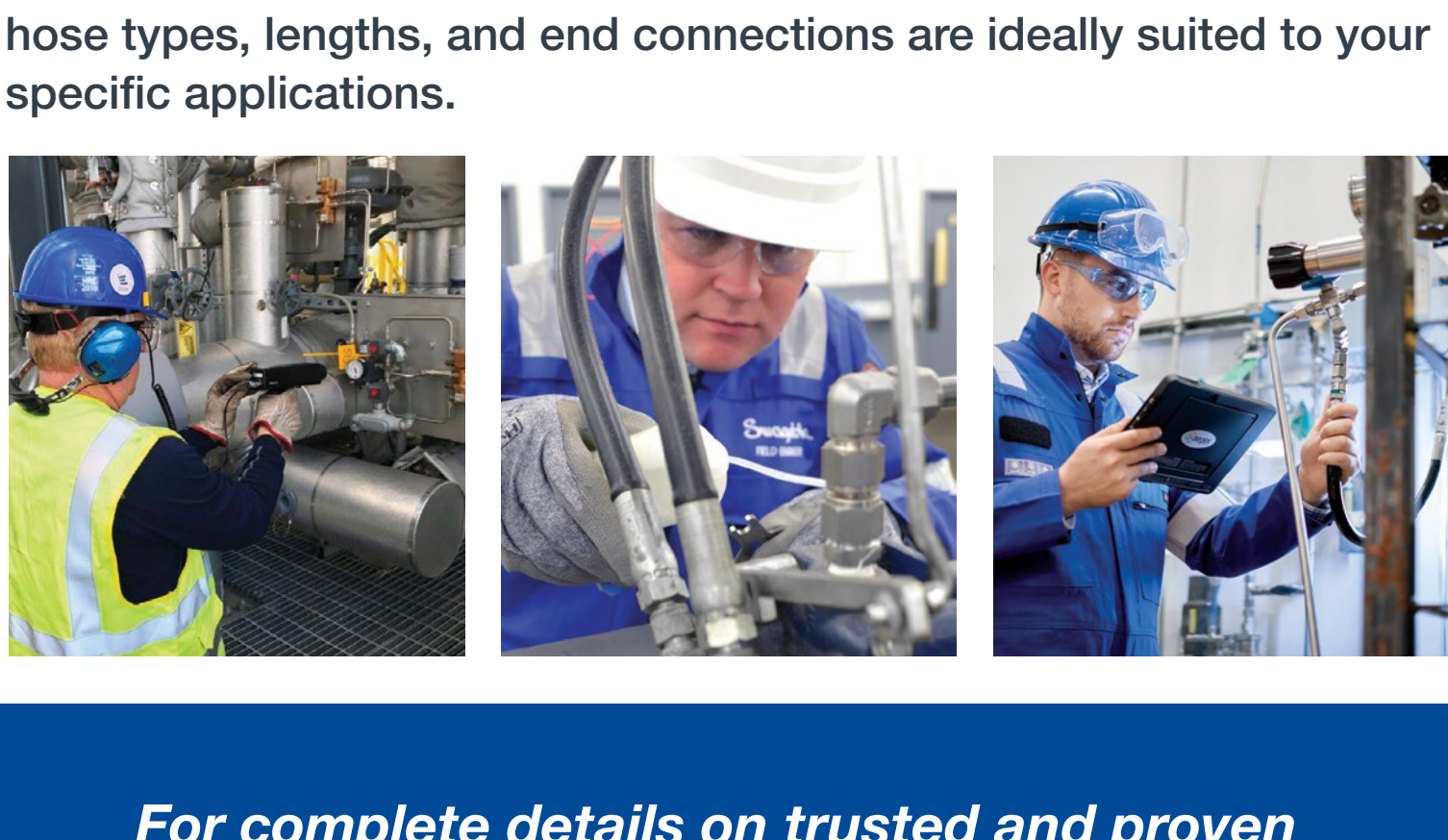
- Foundational fluid system knowledge to ensure overall system integrity and minimal leakage
- Properly select the ideal tubing for your applications
- Cut and deburr tubing
- Safely assemble a Swagelok tube fitting
- Gauge a tube fitting assembly
- Bend tubing of various materials and diameters
- Inspect tubing to secure defect-free bends



TRUSTED SYSTEM

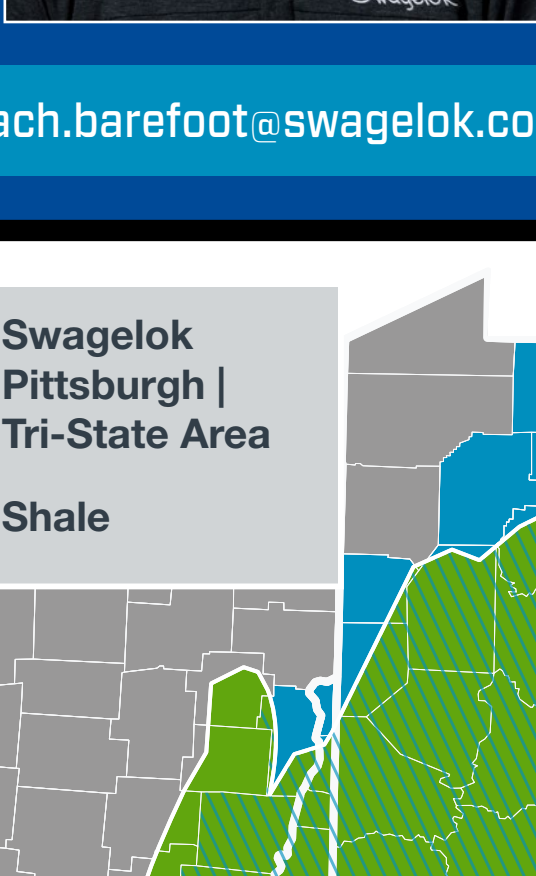
Evaluations & Advisories

MEDIA LEAKAGE | INDUSTRIAL HOSE AUDITS:
BEST PRACTICES FOR SAFETY, SELECTION, SIZING, AND STORAGE

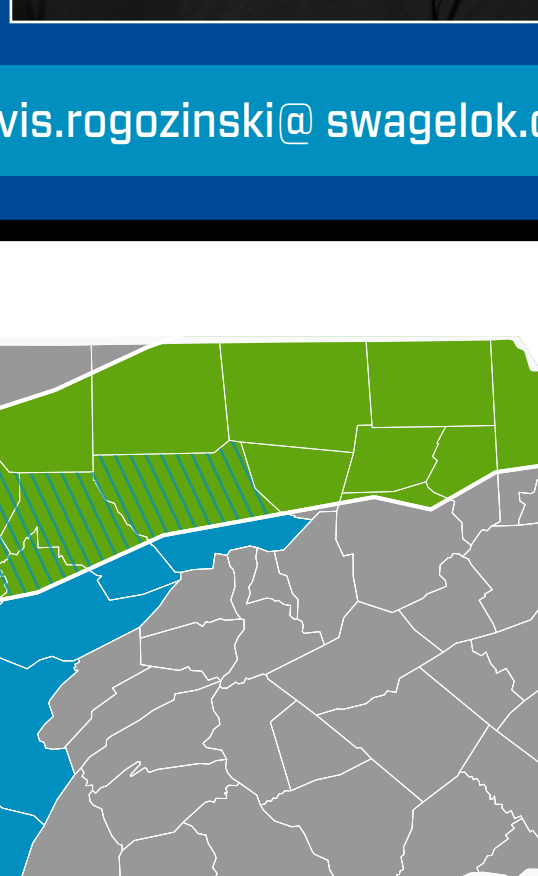


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The Brand. The Inventory. The Expertise.

WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER



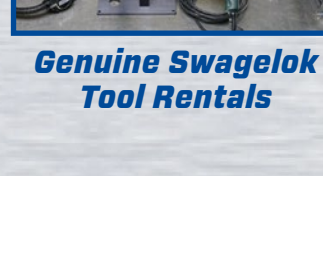
**Industry-Best
Componentry**



**Masterful Custom
Fabrication**



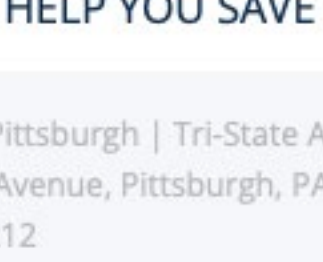
**Expert Safety
Training**



**Extensive
Energy Evaluations**



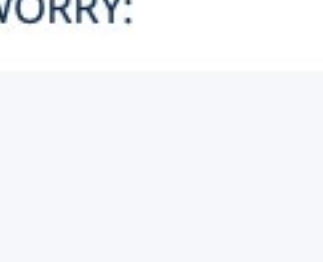
**Unparalleled
Application Knowledge**



**Comprehensive
Hose Advisories**



**Proven Inventory
Management Support**



**Genuine Swagelok
Tool Rentals**



WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:

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Forward

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