

PRO Support

Swagelok Pittsburgh | Tri-State Area is your local, one-call project/operational support resource – to boost your **PRO**ductivity, grow your **PRO**fitability, and enhance your **PRO**iciency, no matter your industry, application, or working conditions.



We are here to help you get more done right and safely, while keeping you on plan and within your time and budget parameters:

99%+

Shipping Accuracy

5

Engineers on Staff

Expertise

Our Field Engineer and Sales Reps provide proven fluid-system technical know-how, including product selection per application

3,000

SKUs Stocked at All Times

15,000

sq. ft. Warehouse, Fabrication, and Staging Area – OR we can manage your parts onsite

Over 20

Safety and Technical Training courses – your place or ours

Over 30

Swagelok Rental Tools:
Hydraulic Swagers,
Benchtop Tube Benders,
Orbital Welding Systems

All products and our
Design & Build work covered
by the Swagelok Limited
Lifetime Warranty

Commissioning Assistance

PREMIUM, LEAK-TIGHT SWAGELOK COMPONENTRY



- Tube Fittings and Tubing
- Valves
- Gauges
- Hoses
- Regulators
- Accessories

VALUE-ADDED SWAGELOK STRATEGIC SERVICES



Masterful Custom Fabrication, specializing in instrumentation panels and complex assemblies



Expert Safety Training: Valve/Hose Selection, Bending, Installation, Inspection



Inventory Management & Control



Application Solutions: Grab Sampling, Mechanical Seal Support, Gas Distribution



Comprehensive Media-Loss Evaluations & Industrial Hose Advisories



Onsite Tube Bending

When, where, and how you need us – we're ready to lend a hand:

412.761.3212 | pittsburgh.swagelok.com |



Be Safe, Be Sure

When assembling a fluid system,

ALWAYS

- ...ensure that tubing material is softer than the fitting material
- ...check wall thickness extremes against manufacturer's suggested minimum wall thickness limitations
- ...turn the fitting nut, not the fitting body, during assembly
- ...use a gap-inspection gauge to ensure sufficient tightening, except on reassembly
- ...ensure that tubing rests firmly on the tube fitting body before tightening nut
- ...apply proper thread lubricants/sealant on tapered pipe threads
- ...remember that tubing surface finish is critical for proper sealing
- ...avoid tubing with excessive depressions, scratches, or other defects
- ...use resilient tube supports
- ...support long tubing runs
- ...mount instruments independently
- ...employ supports near tubing bends to isolate movement caused by changes in flow direction

NEVER

- ...force tubing into a fitting
- ...mix tube fitting and tubing materials to avoid galvanic corrosion and leakage
- ...use a fitting to correct tubing misalignment
- ...make up or tighten a fitting when system is pressurized
- ...bleed system by loosening the fitting nut or plug

***Swagelok is Synonymous
with Safety:***

**Call 412.761.3212 for trusted and
proven application support!**



When you think optimized fluid handling, think Swagelok, think:

Safety

Always our first company and brand priority. We design, develop, make, and distribute the highest-quality, leak-tight products that will keep your workers, facilities, and valuable assets safe, no matter your industry or most challenging applications. Our factory personnel, our raw materials, our manufacturing/quality-control processes, our supply network...we leave absolutely nothing to chance to secure your safety in any association or interaction with our company and brand.



Solutions

Our trusted and proven portfolio of tube fittings, valves, gauges, hoses, tubing, and accessories deliver the performance, reliability, durability, and efficiency to optimize your fluid systems, especially in the most severe conditions.



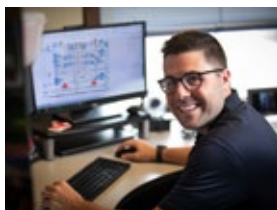
Services

To supplement our renowned componentry, we now offer a powerful portfolio of value-added capabilities, including instrumentation panel and other assembly Design & Build expertise; numerous comprehensive Safety Essentials training classes – Fitting Installation, Inspection, Tube Bending, Valve/Hose Selection, Advanced Bending, and more; extensive onsite System Advisories and Evaluations – media leakage and industrial hose routing/sizing/storage; and always-available Tool Rentals such as Benchtop Benders, Orbital Welders, and Hydraulic Swagers.



Support

We provide the leading-edge technical know-how on how to choose the best Swagelok products and related services for your applications. Call us with the parameters and specs for your project, and we'll talk and walk you through just what you need to get even the toughest jobs done on-time, on-budget, and on-plan.



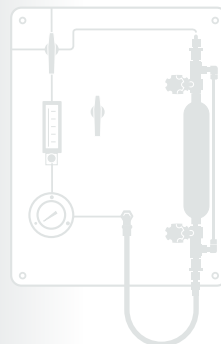
Systems

Call us for off-the-shelf or customized, rapid-install Grab Sampling Systems, Mechanical Seal Support Systems, and Gas Distribution Systems:



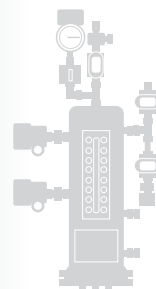
GRAB SAMPLING SYSTEMS

We offer an array of system configurations to meet the unique needs of your application. Our closed-loop solutions deliver pressurized samples into pressure-rated cylinders; our liquid systems enable you to collect process fluid into glass lab bottles for analysis.



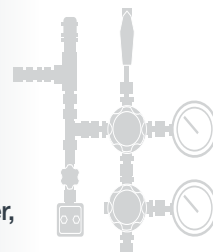
MECHANICAL SEAL SUPPORT SYSTEMS

Our kits and assemblies are available in a variety of API plan configurations – each built to exacting API 682 standards with greatly minimized connections and pipe threads to avoid dangerous/costly leakage.



GAS DISTRIBUTION SYSTEMS

Get gases from a high-pressure source to where they need to go at your application's specified flow and pressure rate. Ask about our four panel types: Swagelok Source Inlet, Swagelok Gas, Swagelok Changeover, and Swagelok Point-of-Use.





THE NEXT FRONTIER

Swagelok ultra-reliable, premium-quality, leak-tight componentry – and associated strategic support services – have contributed significantly to the global sustainability movement. To date, our tube fittings, gauges, valves, hoses, and instrumentation panels, because of their exacting tolerances and superior material compositions, have delivered exceptional performances for companies developing alternative fuel sources involving the storage, transfer, and use of pressurized, potentially volatile, small-molecule fluids.

More specifically, just some of our products in play in the rapidly emerging Clean Energy market: FK Series medium-pressure fittings, ball valves, regulators, metal tubing, plus hoses of all core types: metal, thermoplastic, rubber, and PFA/PTFE; and manifolds.

In addition, our local Design & Build capabilities are ideally suited for producing easy-to-install panels that integrate seamlessly into dispensers, compressors, or fuel lines.

Our certified Swagelok Field Engineer is highly trained to troubleshoot problems and to help you find dependable solutions to combat corrosion and other potentially destructive forces. He can assist with regulatory compliance, too.

Lastly, Swagelok's suite of Safety-first training courses – ranging from basic Tube Fitting Installation to Advanced Tube Bending to Materials Science – will teach you the key tenets to operate effectively and efficiently, with less worry/risk, in this new “green” market.





REGARDING REGULATORS

What to consider when choosing a Regulator:



First, know your **Process Requirements**. If you need to reduce pressure from a high-pressure source before your media gets to your main process, you'll need a Pressure-Reducing model; if your objective is to control and maintain upstream pressure by releasing excess pressure, specify a Back-Pressure style.

Secondly, understand **System Flow**: In general, a large regulator handles high flows and control pressures; a smaller component is suited for low-flow velocities.

Know your **System Pressure** so your selection is properly rated for maximum or minimum operating pressure. Take into account your **System Temperature**, as such could fluctuate significantly in your processes. **Process Sensitivity** will tell you the ideal control mode for your regulator, whether spring-loaded or dome-loaded.

Finally, **System Compatibility** knowledge ensures that your regulators will deliver long, top-end performance – at substantially reduced maintenance costs.



Let us help you avoid a dangerous workplace and excessive inefficiency and expenses: 412.761.3212.

YOUR LOCAL **PANEL MASTERS**

If you're under pressure to get more out the door faster and at less cost, we can help. Our state-of-the-art, climate-controlled Fabrication Shop includes a 5-ton crane and dedicated coiling, welding, bending, swaging, wrapping, cleaning, testing, and inspection stations.

ALL OUR DESIGN AND ASSEMBLY WORK IS:

- ...done by fully trained-and-certified Swagelok technicians
- ...100% covered by the Swagelok Limited Lifetime Warranty
- ...accompanied by a CAD model and a Bill of Materials that incorporate your specs/requirements
- ...delivered as one part number
- ...the end result of a collaboration with you to take your initial idea to a design/redesign phase

JUST SOME OF OUR FABRICATED SUCCESSES/SPECIALTIES:

- Grab Sampling Closed Loop and Liquid Systems
- Mechanical Seal Support Kits and Full Assemblies (API 682 designs)
- Gas Distribution Systems: Source Inlet, Gas, Changeover, Point-of-Use
- Gas Purge Panels/Enclosures
- Standard Instrumentation Mounting Kits
- High-Pressure Test Stands
- Heat Exchanger Tubing Coils
- Custom Flex Hose Assemblies
- Distribution Manifolds



We also offer CAD and P&ID technical support:

Contact our Field Engineer, Gary Osman at gary.osman@swagelok.com

FINEST IN THE FIELD

(SIXTH IN A SERIES)

Customer Challenge:

A Swagelok Natural Gas Processing customer employed a costly, time-consuming, and sometimes inconsistent methodology to check for leakage during plant turnarounds. The account's techs tested for media loss by wrapping plastic or tape around each pipe flange, then punching a small hole in the covering. Next, the system was pressurized and the hole closely monitored – requiring up to 30 minutes per flange...and significantly longer if a connection failed to pass inspection.



OUR SOLUTION:

As a proven first step, Swagelok recommended a comprehensive **Energy Emissions Evaluation**, especially of the systems that were reassembled during the turnaround. Swagelok's certified auditors, using cutting-edge detection equipment, then worked with the customer's maintenance staff to not only locate the leaks, but to find their root causes. In most instances, suboptimal installation was the primary culprit. In all, more than 650 connections were tested; 157 were leaking, were repaired, and then retested.



BOTTOM LINE:

Customer saved 325 hours of labor, a **90% reduction** versus previous testing processes. In addition, Swagelok helped the site quantify its gas losses and, most importantly, prioritize the leaks that were most negatively impacting safety and operating budgets.

For the full story: swagelok.com/en/blog/natural-gas-leak-detection-plant-turnaround

YOUR 2023 SAFETY AND PRODUCTIVITY INVESTMENT: SWAGELOK TRAINING COURSES

Schedule these proven, in-depth classes to help you improve site
and project performance and profitability:



Our Essentials Series

- Fitting Installation & Tube Bending: 1 Day
- Fitting Inspection & Tube Bending: 1 Day
- Fitting Installation & Inspection: ½ Day
- Valve Selection & Maintenance: ½ Day
- Hose Selection & Maintenance: ½ Day



Our Masters Series

- Advanced Tube Bending: 4 Days
- Orbital Welding: 5 Days
- Materials Science: 1 Day



Our Steam Essentials Series

- Steam Basics/Level 1: 1 Day
- Steam Basics/Level 2: 2 Days
- Steam System Engineering, Design, and Optimization: 3 Days



Our Process Analyzer Series

- Sampling System Problem-Solving & Maintenance: 2 Days
- Process Analyzer Sampling Systems/ PASS 1: 5 Days
- Process Analyzer Sampling Systems/ PASS Sub-Systems: 5 Days
- Process Analyzer Sampling Systems/ PASS Plus: 5 Days



WHY SWAGELOK

- We offer an unparalleled array of pertinent and timely course titles.
- We can bring our training directly to your site or project location.
- All our classes include a full money-back guarantee.
- All graduates receive a genuine Swagelok Certificate of Completion, plus several valuable take-home items.
- We supply all class materials – students just need to show up!
- Our classes count toward **Continuing Education** credits.

FOR MORE DETAILS:

including costs and event logistics,
please contact:

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412.439.1706

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