

MAXIMIZING
Worker and Site Safety

MINIMIZING
Fugitive Emissions

MASTERING
Application Challenges

Small Leaks. Big Problems.



Media leakage, particularly in larger plants, is everywhere. Often, perceived minor issues are neglected, especially if air is involved.

But, no matter how seemingly inconsequential the connection issue, there are potential health, downtime, and negative financial implications to consider:

- Lose fluid lubrication and risk expensive equipment damage, perhaps even machine failure.
- Shut down a process for repair and reduce production and hurt your Bottom Line.
- Produce off-spec product due to improper instrument calibration/operation and be faced with material rework, slashed selling prices, or substantial scrap.
- Ignore leak-caused spills or drips and jeopardize worker safety.
- Ignore leaking systems and machinery and face probable non-compliance fines or worse.



WHAT are the primary causes of Leakage?

- Unreliable metal-to-metal seals.**
Over time, secure seals can be quite difficult to maintain. Manufacturer guidelines for essential seal function and maintenance are sometimes overlooked.
- Poorly assembled tube fittings.**
Knowing how to optimally make up a fitting – in particular, orienting the dual ferrules the right way and using a gap gauge to verify the proper way – will dramatically reduce leaks while improving worker and site safety, productivity, efficiency, and profitability.
- Sub-par tubing selection, handling, and preparation.**
First, the tubing material must be compatible with your process fluid or operating environment. Otherwise, you'll be highly subjected to corrosion, premature failures, and, of course, leakage. Plus, if your tubing is cut unevenly, dented, scratched, or not deburred, the fitting's sealing ability is potentially compromised.

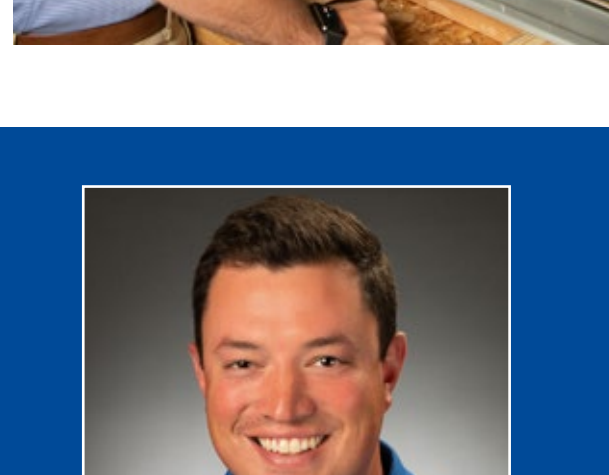
HOW can we Help?

Your local Swagelok Fluid-Systems Solutions Provider can deliver:

- **Technical Application Consultation:** Gary Osman, our certified Swagelok Field Engineer, is always ready and able to deliver expert Swagelok tooling recommendations to resolve even your most severe fluid-system challenges: gary.osman@swagelok.com.
- **Fitting Installation & Tube Bending Safety Essentials Training:** Our all-day, hands-on class, available at your location or at our leading-edge Training Center in Pittsburgh, teaches you the safest and best way to pull up a fitting and bend tubing of various materials. We supply all course items, consumables to manuals. Students simply need to show up at their assigned time and place.
- **Advanced Tube Bending Training:** This multi-day event will show participants how to make even the most complex bends. You'll learn how to master the traditional measure-mark-bend AND Swagelok (for ultimate accuracy and aesthetics) methods.
- **Energy-Loss Surveys:** We'll come to your site to thoroughly examine an agreed-to segment of your system connections. We'll employ film and ultrasound means to identify and tag your significant sources of leakage – before issuing a comprehensive report with proven repair recommendations.
- **Industrial Hose Advisories:** We'll evaluate your current hose selection/usage, sizing, and storage practices. We'll then give you a multi-page summary loaded with critical advice on how to rapidly improve your overall hose safety and performance. **We don't just find your hose-related problems, we help you fix them!**
- **Design & Build Capabilities:** Don't let scrap, rework, high engineering costs, or other operational inefficiencies continually hamper your profitability. We can deliver premium, turnkey solutions as one part number: Grab Sample Panels, Seal Support Kits/Panels, Gas Distribution Panels, Purge Panels, Manifolds for Multiple Gas Cylinders, Regulator Changeover Manifolds, Instrumentation Pigtailed for Gas Pipelines, and so much more.



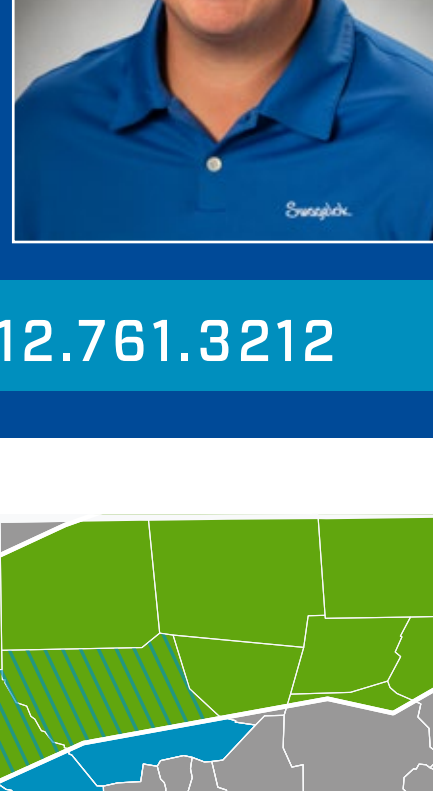
GARY OSMAN,
Certified Swagelok Field Engineer



For more information on how we can save you time, money, and risk, contact

Zach Barefoot

Midstream & Construction Specialist



zach.barefoot@swagelok.com

412.761.3212

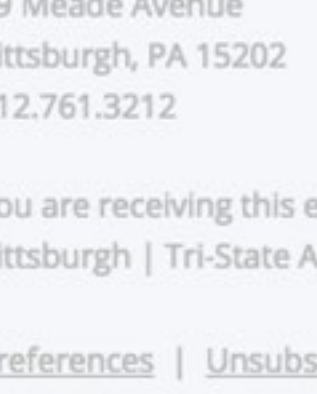


Our Promise:

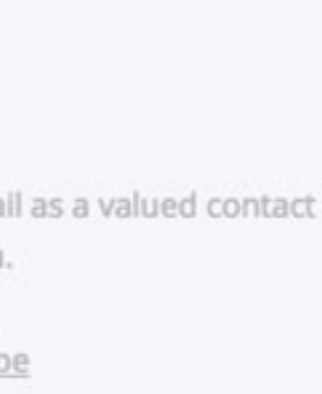
In each and every customer engagement and interaction, no matter how challenging your application or operating conditions, we will deliver premier-quality Swagelok Fluid-System Product Solutions and value-added Strategic Services that will positively impact your Bottom Line.



WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER



Industry-Best Complementry



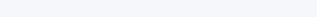
Masterful Custom Fabrication



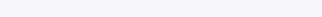
Expert Technical Training



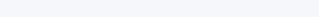
Extensive Energy Evaluations



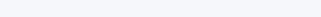
Unparalleled Application Knowledge



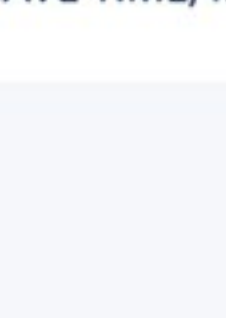
Comprehensive Hose Advisories



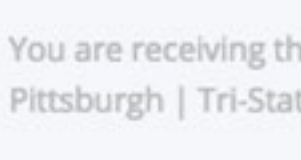
Proven Inventory Management Support



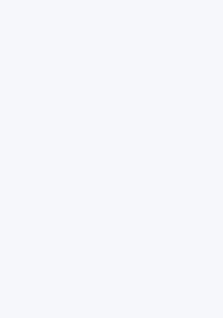
Genuine Swagelok Tool Rentals



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



Swagelok Pittsburgh | Tri-State Area
49 Meade Avenue
Pittsburgh, PA 15202
412.761.3212



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