

The **CAUSE** of... The **COST** of... The **CURE** for... **LEAKAGE**

Even small leaks can potentially lead to overall fluid-system inefficiency and ineffectiveness.

Know the facts!

There are three primary reasons system leakage occurs:

1

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.

2

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.

3

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.

Plus, there are numerous possible negative financial implications to consider:

- Lose fluid lubrication and risk expensive equipment damage, perhaps even machine failure.
- Every time you shut down a process to repair a leak, you lessen production output and hurt your Bottom Line.
- You could produce off-spec product due to improper instrument calibration or operation – resulting in material rework, lower selling prices, or even scrap.
- Your workers could slip or fall from leak-caused oil drips. Fugitive emissions also jeopardize the health of your personnel.
- Major non-compliance fines could be traced to leaking systems and/or equipment.



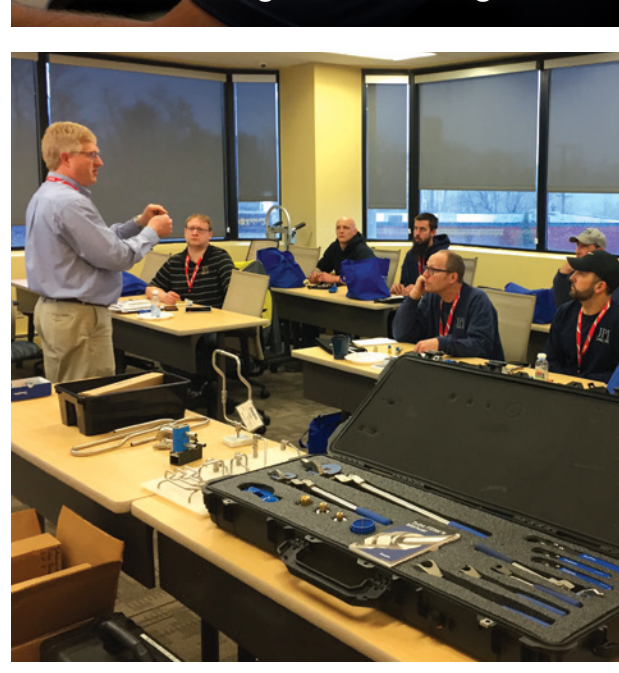
That's why it's vitally important, for optimum productivity and economy, to know how to select the "right" componentry to align with your applications....and, once chosen, how to safely and properly install those tube fittings, valves, gauges, hoses, and other products.

Your local Swagelok Fluid-Systems Solutions Provider can help:

- **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 method.
- **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!***



GARY OSMAN,
Certified Swagelok Field Engineer



Click Here to Read More about Common Causes and Costs of Fluid-System Leaks

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 Componentry



Masterful Custom Fabrication



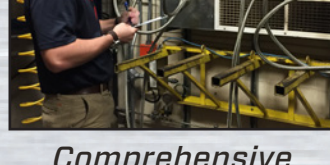
Expert Technical Training



Extensive Energy Evaluations



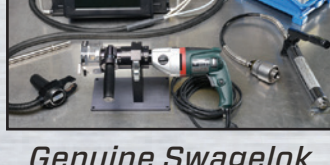
Unparalleled Application Knowledge



Comprehensive Hose Advisories



Proven Inventory Management Support



Genuine Swagelok Tool Rentals



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



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