



Just What You Need – *Right When and Where You Need It*

Swagelok Pittsburgh | Tri-State Area is your nearby **Swagelok superstore**, supplying you the premium-quality, leak-tight, ultra-reliable Componentry you require to realize fluid-system optimization in the most challenging Oil and Gas, Chemical, Refining, Power, Research-and-Development, and other General Industrial applications.



VARIETY of product | **VITAL** for workers, equipment, & site safety | **VALUE** delivered, especially under pressure

Fittings

- [Tube Fittings and Adapters](#)
- [Assembly-by-Torque \(AbT\)](#)
- [Cone and Thread](#)
- [Dielectric](#)
- [Flange Adapters](#)
- [Medium-Pressure Tube Fittings](#)
- [Pipe Fittings](#)
- [VCO® O-Ring Face Seal](#)
- [VCR® Metal Gasket Face Seal](#)
- [Tubular Fittings \(UHP\)](#)
- [Ultra-Torr Vacuum Fittings](#)
- [Weld Fittings](#)

Tubing and Tube Supports

- [304 / 304L and 316 / 316L Seamless](#)
- [304 / 304L Welded](#)
- [316L Titanium Alloyed](#)
- [Insulated and Jacketed Tubing](#)
- [Support Systems](#)

Filters

- [Coalescing Filters](#)
- [High-Purity Filters](#)
- [Particulate Filters: Inline and Tee Type](#)

Sample Cylinders

- [Single-Ended Cylinders](#)
- [Double-Ended Cylinders](#)

Hoses and Flexible Tubing

- [Metal Core Hose](#)
- [PFA Core Hose, Smooth-Bore](#)
- [PTFE Core Hose, Convoluted](#)
- [PTFE Core Hose, Smooth-Bore](#)
- [Rubber Core Hose](#)
- [Thermoplastic Hose](#)
- [Spare Parts and Accessories](#)

Valves and Manifolds

- [Atomic Layer Deposition \(ALD\) Valves](#)
- [Ball and Quarter-Turn Plug Valves](#)
- [Bellows-Sealed Valves](#)
- [Check Valves](#)
- [Diaphragm-Sealed Valves](#)
- [Needle and Metering Valves](#)
- [Relief Valves](#)
- [2-, 3-, and 5-Valve Manifolds](#)
- [Quick Connects](#)

Analytical Instrumentation

- [Gas Distribution Systems](#)
- [Grab Sampling Systems](#)
- [Mechanical Seal Support Systems](#)
- [Miniature Modular Systems](#)

Pre-Engineered Subsystems

- [Calibration and Switching Modules](#)
- [Fast Loop Modules](#)
- [Field Station Modules](#)
- [Fluid Distribution Headers](#)
- [Sample Probe Modules](#)

Regulators

- [Back-Pressure, Dome-Loaded](#)
- [Back-Pressure, Spring-Loaded](#)
- [High-Purity, High-Flow Gas Regulators](#)
- [Pressure Reducing, Dome-Loaded](#)
- [Pressure Reducing, Spring-Loaded](#)
- [Pressure Reducing, Electrically Heated](#)
- [Specialty Regulators](#)

Measurement Devices

- [Flow Sensors](#)
- [Pressure Gauges](#)
- [Pressure Transducers](#)
- [Thermometers](#)
- [Variable Area Flowmeters](#)

Tools and Accessories

- [Tube Fitter's Kit](#)
- [Tube Benders](#)
- [Tube Cutting and Preparation](#)
- [Deburring Tools](#)
- [Inspection Gauges](#)
- [Swaging Tools](#)
- [Orbital Welding System](#)

Leak Detectors, Lubricants, Sealants

- [Lubricants \(Goop®\)](#)
- [Sealants \(PTFE Tape, SWAK®, PTFE-Free\)](#)
- [Snoop® Liquid Leak Detector](#)

Think Differently About us

YES, we have the high-performance Tube Fittings, Valves, Gauges, Hoses, Tubing, and Regulators that will significantly boost your overall productivity and profitability – but we offer **so much more**, including:

Masterful Custom Fabrication



- Sub-assemblies to large, complex skids and enclosures
- All work done by master technicians trained and certified by Swagelok Company
- Design & Build expertise, plus Orbital Welding and Intricate Tube Bending

Trusted System Evaluations & Hose Advisories



- We identify your major leakage and provide 100% trusted recommendations
- We suggest changes to optimize your current hose practices and processes
- Minimize worker injury and site/asset damage

Comprehensive Safety Training



- Your place or at our leading-edge Pittsburgh Training Center
- We supply all course materials
- Unrivaled Tube Fitting Installation & Tube Bending classes, even Advanced Bending

Always-Available Tool Rentals



- Lease by the day, week, month, or entire project length
- Multi-Head Hydraulic Swaging Units, Benchtop Benders, Orbital Welding Systems
- Ideal and cost-effective for short-term or infrequent use

Unparalleled Application/Technical Expertise



Our knowledgeable Technical Sales and Support Team helps you choose the right Swagelok components or fabricated assemblies for any application. With reliable recommendations and readily available inventory, we help reduce downtime, improve efficiency, and keep your operations running safely—on time and on budget.

WE'RE RIGHT NEXT DOOR –

fully backed by the global power and reach of Swagelok Company –

fully committed to making YOU safer, more productive, more efficient, and more profitable!

- Premium Quality
- Massive Availability
- Worldwide/Local Support
- Proven Expertise



People Are Talking About Us (Yet Again)



Since 1947, the Swagelok brand has delivered unparalleled performance and efficiency in the world's toughest applications and operating conditions. Time after time after time, we've provided superior results that have exceeded customer expectations: proven products, trusted technical expertise, massive inventories, supplemental support services...

Here are a few more recent customer testimonies:

- 1** *A major Research & Development lab was losing expensive argon and nitrogen from its gas storage and delivery systems. Utility costs were skyrocketing. Overall process efficiency was negatively impacted as well.*

Swagelok Fluid-System Advisors were summoned to evaluate a large portion of the site's lines. Employing cutting-edge ultrasound equipment, our crew quickly found the most egregious problem points. We issued a comprehensive report that not only detailed the issues, but provided proven and trusted recommendations to fix the 13 large leaks that were costing our customer the most money. In all, we helped save the lab more than \$10,000 in yearly gas losses.



- 2** *A Power/Water Utilities resource wasn't certain its hired contractor was properly and safely installing the site's new fluid systems.*

Swagelok Energy-Loss Experts performed a lengthy audit after the contractor completed its first round of work. Sure enough, we spotted some \$76,000 worth of repairable leaks at the power plant – and another \$150,000 of the same issues at the water facility.

NOTE: We are always willing and able to advise you, too...especially before you begin your project to ensure safe, leak-tight, and ultra-reliable connections.



- 3** *An Oil and Gas account had a significant problem: A stainless steel 316 fitting had been intermixed with a 2507 material tube during a site turnaround. Worker injuries resulted. An internal investigation showed maintenance technicians were never properly trained how to safely install fluid systems. In addition, the high-pressure and low-pressure tube fittings used onsite were so similar, there was mass confusion around exactly what hardware could be swapped.*

We replaced all existing high-pressure and intermixed styles with genuine **Swagelok FK-Series Tube Fittings**. We then provided expert installation and overall technical support – including our renowned, all-day Tube Fitting and Tube Bending Safety Essentials course – to absolutely ensure that all affected staff knew exactly how to correctly pull up tube fittings. In all, we were credited with dramatically improving site safety, efficiency, and productivity.



- 4** *A large pump and compressor OEM for the Mining, Chemical, and Power Generation industries sought to find check valves for panels that would guarantee stable and reliable compressor operations in extremely harsh industrial environments.*

Our **Design & Build Services Team** was contracted to not only recommend the ideal valves, but to also completely assemble the panels, each with five manifolds and 20 overall connections. To date, our panels and componentry have a virtually leak-free record, no matter how challenging the varying operating conditions.



We're **BUILT** for it

When your safety, productivity, and deadlines are at stake, we're your one call to keep your fluid systems running and business confidently moving forward...

ADVANTAGE, YOU:



Uncompromising Product QUALITY:

*Reliable Performance
You Can Trust*

*Best-in-class fittings
defect rate of only 27 PPM*



Dependable Product AVAILABILITY:

*The Right Products
When & Where You Need Them*

*90% of standard products
on shelf at order*



Global STRENGTH / Local SUPPORT:

*Rapid Responsiveness
When & Where You Need Us*

*200+ global locations
serving 100,000 customers*



Technical EXPERTISE & Problem Solving:

*Trusted Answers for Your
Toughest Challenges*

*450 local field engineers
solving problems*



Productive Visit

Thanks to everyone who stopped by booth 513 and/or attended our Tube Bending Safety seminar during the recent Appalachian Gas Measurement Short Course at Robert Morris University.

We truly enjoyed meeting you and telling you, face-to-face, why **The Swagelok Advantage** is your best choice for optimized fluid-system safety, effectiveness, and efficiency in even the most daunting applications.

Product Spotlight: The Swagelok Ammonia Sampler



Minimize operator exposure to dangerous liquids and vapors; eliminate sample transportation within your facility!

- Employs a closed-sampling fixture, pre-chills the residue tube, semi-automates how the tube is filled, and controls the heating cycle
- Provides a visual confirmation of the sampling process and controls ammonia flashing into the atmosphere
- Installs at the sample point, eliminating any possible hazardous conveyance throughout your site
- Produces results far faster versus manual processes that can take more than eight hours

Extremity Protection from Winter's Extremes

Mornings are cooler, days are shorter... and the Big Chill is right around the corner. But you can help ensure that your outside impulse, process, and sampling lines stay fully operational during the harshest weather conditions:



Electric-Traced Bundle

- Maintains uniform temperatures (up to 250°F) in long, continuous impulse and sample lines
- Self-regulating Raychem® tracer lowers heat output as bundle gets warmer
- Tinned, copper-braided shield



Light Steam-Traced Bundle

- Superior freeze protection of impulse and analyzer transport lines
- Ideal for maintaining temperatures (50°F to 200°F) in small-diameter process lines
- Individually wrapped process and tracer tubes reduce heat transfer



Heavy Steam-Traced Bundle

- Yields optimal high process temperatures (200°F to 400°F) and/or viscosity control
- Maximum high heat transfer due to direct contact of process and tracer tubes
- Effective alternative when electrification is not possible



- Available in an array of configurations
- Insulated with non-wicking, fibrous glass
- Covered with a PVC or urethane jacket for exceptional chemical/abrasion resistance
- Quickly and easily installed for a more consistent thermal performance versus field-traced and insulated systems
- All tubes bend together for pain-free routing and field connections



Steam Traps

Strongly recommended for every steam-traced line in your system

Should be located at every 100' or so of heated line – or if you have turns or elevation changes in your main line. Separates condensate from steam. Also removes non-condensable gaseous mixtures. Should be installed before any pressure-relief, control, or closed manual valves to prevent seat erosion and a freeze leading to a rupture.

REMEMBER: If condensate isn't effectively removed from your lines, water hammer could result, causing significant operator risk and/or equipment damage.



A Few More Helpful Winterization Hints

- **Conduct an Energy-Loss Evaluation** to determine current line leakage and to prevent fugitive emissions that could cause system failure in extreme cold
- **Employ Grab Sampling** - Safely, efficiently, and effectively capture gas and liquid samples for transportation to a lab for analysis; whether you require closed-loop sampling into pressure-rated cylinders OR want to collect liquids and non-volatile process fluid into glass bottles, our options are safe, intuitive, easy to maintain, and available as a single part number
- **Construct heated housing**, even for temporary use, to protect critical outside equipment

PANEL DISCUSSION

Our Swagelok-trained-and-certified master technicians can design and build safe and premier-performing sub-assemblies to large, complex assemblies that will enable you to get more out the door faster, particularly when your production schedules are tight.

Some of our renowned instrumentation specialties:



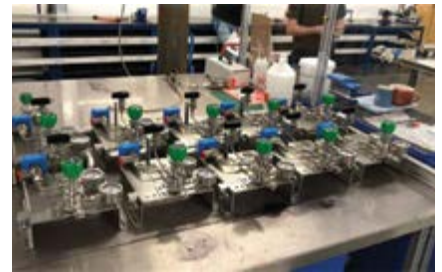
GRAB SAMPLING SYSTEMS

- Capture gas and liquid samples safely and efficiently for lab analysis
- Options for closed-loop sampling in pressure-rated cylinders or non-volatile fluids in glass bottles



MECHANICAL SEAL SUPPORT SYSTEMS

- We provide API plan systems built to the precise standard of API 682 for centrifugal and rotary pump sealing



GAS DISTRIBUTION SYSTEMS

- Ensure gases reach their destination with our standardized and custom solutions
- Modular panels protect operators, boost uptime, and improve process accuracy with intuitive labels and minimal threaded connections



Home Improvements

And now our Fabrication Shop is an even better resource to help you reduce engineering, waste, scrap, rework, inventory, and other costs:

- Converted our garage bay to add 500 sq. ft. of workspace
- Added another M200 Orbital Welder to double our capability
- Upgraded our mobile workbenches so we can take on jobs of virtually any size
- Added a Primary Visual Display board to closely track key fabrication metrics
- Added stainless steel tops to all worktables for an ultra-clean environment
- Incorporated a dedicated Leak Test Station

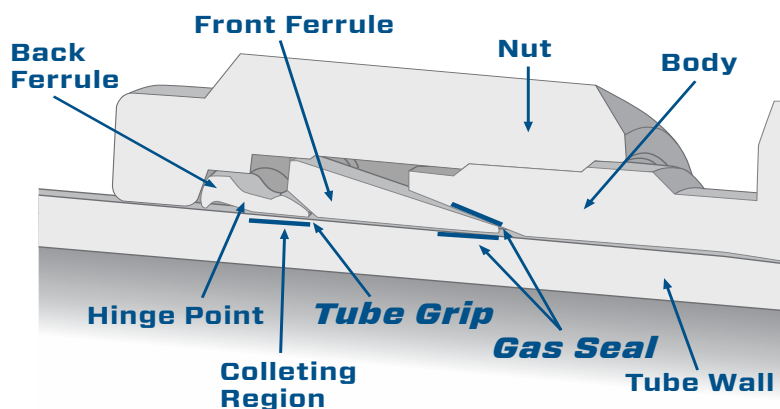


PERFECTLY FITTING

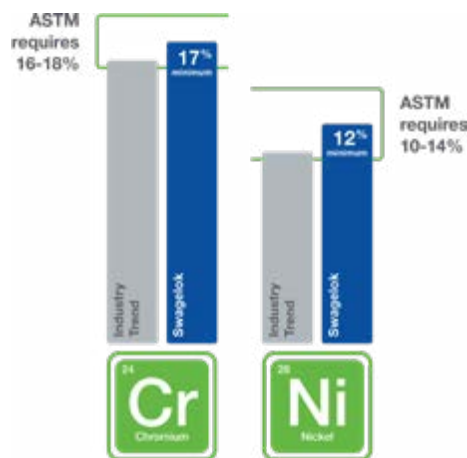
Not all tube fittings are made to the same exacting tolerances. In fact, there's NO global design standard, making the intermixing or interchanging of fitting brands likely to result in uneven production, harmful/costly emissions, increased maintenance labor, and, perhaps, dangerous blowouts. But our components, easy to safely assemble, install, and maintain, deliver unequalled performance and outstanding vibration/corrosion resistance.

SIMPLY, WE'RE **BETTER BY DESIGN:**

A recess feature in the back ferrule enables the ferrule to hinge as it advances, creating exceptionally strong grip and support on the tubing.



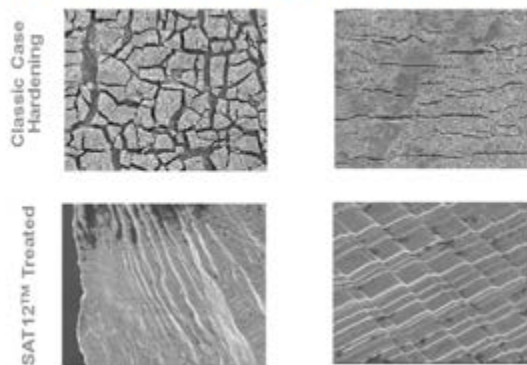
Secondly, we only use the **highest quality materials of construction** – with far more nickel and chromium content versus industry standards – for supreme overall resistance to oxidation, chemicals, acids, and chloride.



Plus, we employ a proprietary SAT-12 low-carbonization case-hardening heat treatment process that hardens the back ferrule's exterior surface to enhance strength, durability, and defense against corrosion.

Other benefits: Remakeability and the capability to work on all ASTM standard levels of tubing hardness.

SAT12 carburized stainless steel maintains ductility



In addition, our tube fittings have double the silver-plating thickness inside the bore of the nut to enable a smooth, low-torque pull-up.

We also routinely select and test several thousands of random samples each year, subjecting them to rigorous burn, rotary flex and impulse, and shock impact conditions to ensure that you receive the safest, most dependable tube fitting – **each and every order.**

Pressure Performers



Our Industrial Pressure Regulators

reliably maintain levels in your systems to ensure that media is safely, properly, and economically contained under ideal pressures to protect you, your processes, equipment, and end products

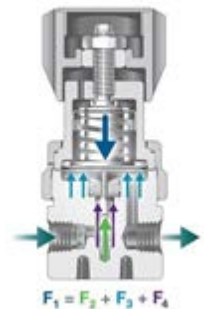
Our ultra-reliable components are made of corrosion-resistant alloys and built to withstand even the harshest conditions and most daunting fluids, minimizing any chance of degradation.

Contamination is thoroughly mitigated by specially designed inlet filters that trap debris before it can enter the regulator. Potential damaging effects of droop and creep are also greatly reduced, regardless of your flow rate.

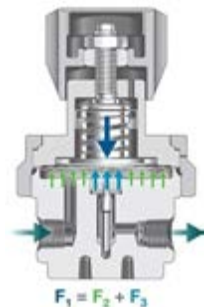
All models can accommodate working pressures up to 6000 psig and perform exceptionally well in temperatures from -49° F to 356° F and are available with multiple 1/2" to 1-1/2" end connections.

Regulator Selection Critical Criteria:

1. **System Flow** that helps you choose the optimum size to maintain a desired pressure. Generally, large regulators handle high flows and control pressures; smaller styles are suited for low-flow velocities. Regulator Elements should be sized appropriately as well. For instance, a large diaphragm or piston is your choice to control low-pressure applications.
2. **System Pressure** that dictates whether you use a regulator rated for maximum, minimum, or operating pressures.
3. **System Temperature** that can fluctuate significantly in your processes. Environmental factors and fluid temperatures need to be considered, too.
4. **Process Sensitivity** plays a key role in determining the ideal control mode for your regulators: Spring-Loaded, that require an operator to turn an external knob to control, or Dome-Loaded that employ fluid pressure from within the system to provide the set pressure on the Sensing Element.
5. **System Media Compatibility with Your Regulator** results in substantially longer component life and lower overall maintenance/operating costs.



Pressure-Reducing Regulators must include: **loading force (F1)**, **inlet spring force (F2)**, **outlet pressure force (F3)**, and **inlet pressure force (F4)**.



Back-Pressure Regulators must balance: **spring force (F1)**, **inlet pressure force (F2)**, and **outlet pressure force (F3)**.

THE SWAGELOK ADVANTAGE



We are **YOUR** proven and trusted partner **READY** and **BUILT** to fully support you!

SWAGELOK PITTSBURGH | TRI-STATE AREA
YOUR LOCAL FLUID-SYSTEM EXPERTS

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