Swagelok

Swagelok Pittsburgh | Tri-State Area

WHEN UPTIME IS EVERYTHING:

SWAGELOK'S LEAK-TIGHT FLUID SYSTEMS PROVIDE CRITICAL INFRASTRUCTURE SUPPORT



We bring a systems-focused approach to data center construction and operation



UPtime EVERYtime

with Swagelok

When there can be ZERO tolerance for downtime, count on Swagelok to dramatically reduce your operational risk, enhance system integrity, and deliver trusted and proven results time after time after time…

Whether you're facilitating cloud computing, artificial intelligence, or digital transformation/communication, ***Swagelok is synonymous with UPTIME.***

Swagelok innovative, premium-quality, leak-tight solutions include:

- Backup Power Fuel and Exhaust Systems
- Cooling Distribution Systems
- Instrumentation and Monitoring Systems

Such systems are critical to your safety, performance, efficiency, productivity, and profitability…

…Swagelok can help ensure that you operate continuously and keep up with ever-increasing digital demand!



Think Systems, Not Simply Components

That means reliability, standardization, and long-term risk reduction across your cooling and power infrastructure

So, why us?

We are uniquely positioned to deliver far more than the fluid-handling industry's unparalleled, leak-tight, premium-quality products...

We can genuinely help you ensure system reliability via unsurpassed global support that scales with your operations and requirements. We are committed to keeping your construction timelines on track — safely, efficiently, productively, and profitably.



*Unparalleled **QUALITY***

*Unrivaled **EXPERTISE***

*Unmatched **AVAILABILITY***

Globally, the Swagelok Brand is proven and trusted to significantly improve fluid-system safety, performance, and profitability – no matter how challenging the application or operating environment.

Locally, our 27-strong team, including six Engineers, is ready and waiting to assist you with ideal product selection per use; highly impactful advanced solutions that supplement our renowned leak-tight, premium-quality componentry; and an ardent customer-first service mentality that means a superior experience every time you interact with us.

Swagelok Pittsburgh | Tri-State Area always has more than 3,000 SKUs in stock

We employ a state-of-the-art carousel picking system to ensure that we get you just what you need – right when and where you need it. We keep an extensive supply of pristine stainless steel tubing, in various diameters, to meet the ever-increasing demands of our sales area.





Supporting Your Data Center Projects

Data centers are expanding rapidly across our region, driven by demand for cloud computing, AI, and digital infrastructure. With aggressive timelines and zero tolerance for downtime, facility construction and startup require partners who can deliver both **precision and reliability at scale.**

Swagelok supports data center owners, EPC firms, and contractors with fluid system solutions designed to **improve installation efficiency, system integrity, and long-term performance.**

Industry Challenges

Modern data center construction and operation bring a unique set of challenges:

Aggressive Build Schedules
Speed to market is critical. Delays in construction or rework during installation can significantly impact project timelines.

Complex Cooling Infrastructure
Liquid cooling systems and high-density environments require precise routing, reliable connections, and consistent installation practices.

Labor Variability
Large-scale projects often involve multiple contractors and installers, increasing the risk of inconsistent workmanship.

Supplier Consolidation Pressure
Managing multiple vendors across a project creates inefficiencies, delays, and added complexity.

Uptime Expectations
Once operational, systems must perform flawlessly—making installation quality and component reliability critical from day one.

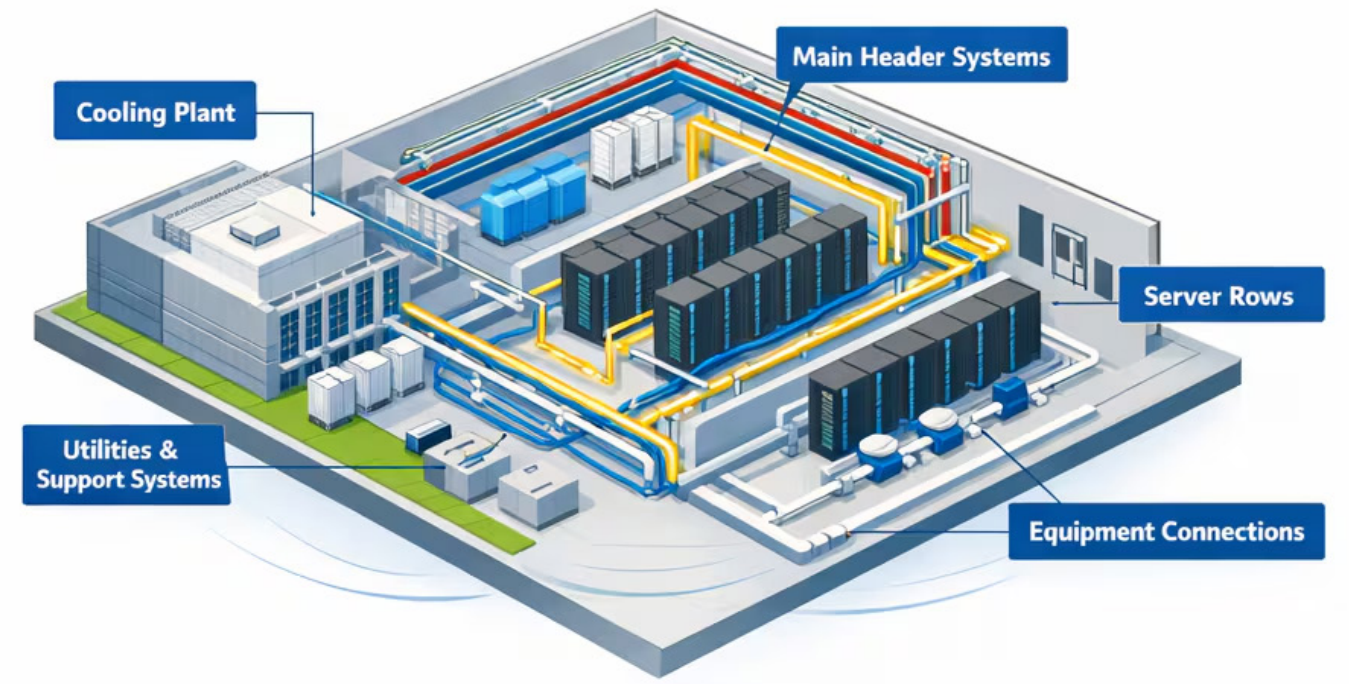
Data Center Applications

Swagelok solutions are commonly used throughout data center construction and infrastructure, including:

- Corrosion Test Skids
- Utilities & Backup Power (Diesel, H2, and Natural Gas)
- Cooling System Headers and Distribution Lines
- Tubing Runs and System Drops
- Heat Exchanger Connections
- Welded Fluid Systems
- Gas Distribution and Specialty Systems

Where Swagelok Fits Into Data Centers

Swagelok brings a system-focused approach to data center construction and operation, helping teams reduce risk and improve execution.



Headers, Drops, & Distribution Systems

- Leak-Tight Tubing and Fittings
- Repeatable Installation
- Reduced Rework

Critical Connection Points

- Reliable Connections
- Improved System Integrity
- Reduced Startup Issues

Cooling Infrastructure

- Precision Routing
- Complex Layouts
- Built for Reliability

Welding Systems

- Orbital Welding Support
- Best Practices
- Consistent Welds

Supply Chain Simplification

- Single-Source for Components
- Local Inventory
- Bulk Project Fullfillment

Fewer Vendors | Faster Procurement

Installation Training

- Hands-On Instruction
- Standardized Practices
- Reduced Rework

Safer Systems | Reliable Startups

Our Products:



Tubing & Accessories



Tube Fittings



Valves



Industrial Hose



Orbital Welding System

Supporting Your Data Center Projects

Whether you're building new facilities or expanding existing infrastructure, Swagelok Pittsburgh | Tri-State Area is ready to support your team with the products, services, and expertise needed to execute with confidence.



Data Center

Reliable Fluid Systems for Data Center Liquid Cooling Drops

As data center compute density increases, reliable liquid cooling becomes critical to performance and scalability. Swagelok partners with operators, engineers, and EPCs to deliver leak-tight fluid systems for liquid cooling drops—supporting consistent cooling as facilities expand and evolve.

The Challenge: Precision Cooling Leaves No Room for Error

Liquid cooling drops operate in close proximity to sensitive IT equipment, where even minor leaks can pose serious risk. These systems must manage continuous flow, pressure changes, and temperature variation while maintaining precise control and cleanliness.

Inconsistent component selection, low-quality connection technology, or improper assembly can introduce leak points that compromise reliability and delay deployment. Because liquid cooling systems are designed to operate continuously, planned downtime for repairs may be limited. As a result, header reliability depends on both robust component design and disciplined fluid system execution from the outset.

Swagelok Solutions for Liquid Cooling Drops

Swagelok supports header-based cooling architectures with engineered components and system-level support to reduce risk as liquid cooling scales.

- Tube fittings designed to help maintain leak-tight performance in continuous-flow cooling systems
- Valves that support isolation, balancing, and control within header assemblies
- Tubing and hose options compatible with common coolants and temperature ranges



Supporting Performance and Scalability in High-Density Environments

Support That Goes Beyond the Component

- Application insight to help maximize heat dissipation within confined data center environments by improving flow control and overall system efficiency
- Guidance to support reliable operation in next-generation systems, including managing pressure dynamics during liquid-to-gas phase transitions in two-phase cooling applications
- Support in evaluating material compatibility and corrosion resistance with potentially more aggressive coolants

By combining engineered products with practical, field-informed support, Swagelok helps data center operators, engineers, and EPCs improve cooling reliability, simplify expansion, and protect critical IT infrastructure.



Confidence as Cooling Demands Increase

Liquid cooling drops play a critical role in enabling high-density computing. Swagelok helps ensure those systems are ready—through reliable components, proven designs, and expert support—so cooling performance can scale with confidence as demands grow.



Let's talk about your liquid cooling system reliability

Connect with your local Swagelok team to reduce leak risk through engineered components, standardized designs, and application expertise built for high-density performance.



Data Center

Reliable Fluid Systems for Data Center Backup Power

When primary power fails, backup power systems must perform—immediately and reliably. From diesel generators to lube oil systems, even small leaks can compromise startup, safety, and runtime. Swagelok helps data center operators, engineers, and EPCs build leak-tight, reliable fluid systems that support dependable backup power performance—during testing, startup, and extended run events.

The Challenge: Backup Power Can't Afford Failure

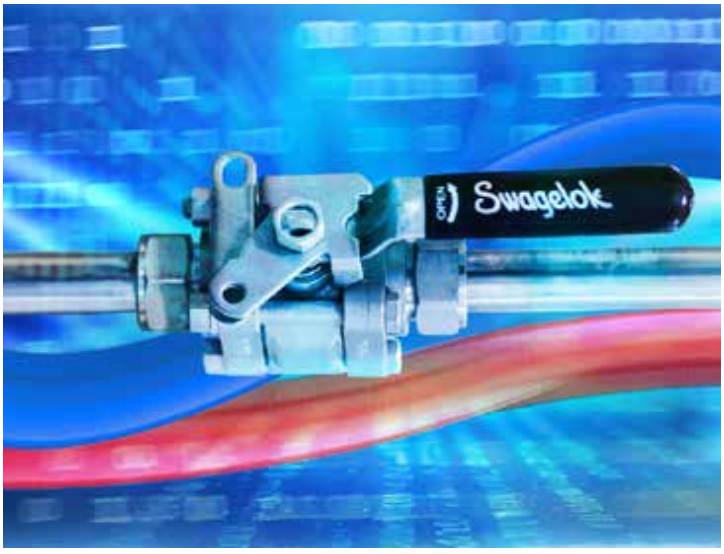
Generators may sit idle for extended periods, yet they are expected to start instantly and perform at full load when utility power is lost. Even minor leaks or inconsistencies can delay startup, compromise safety, or interrupt sustained operation when uptime is most critical.

With limited access for repairs during emergency operation, backup power reliability depends not only on the generator itself, but on the integrity of every fluid system supporting it.

Swagelok Solutions for Backup Power Systems

From initial installation through testing, standby operation, and emergency runtime, Swagelok components are designed to maintain leak-tight performance in the demanding conditions common to generator applications.

Beyond individual components, Swagelok brings application expertise to help customers design, assemble, and maintain fluid systems that perform reliably over time. Standardized approaches, consistent component selection, and proper assembly practices help reduce variability across systems and sites—supporting greater confidence when backup power is needed most.



Protect Uptime All the Time

Designed for Demanding Backup Power Environments

Swagelok components are engineered to support critical generator subsystems, including fuel supply and return, lube oil circulation, cooling and heat exchange loops, exhaust aftertreatment, and instrumentation.

- Tube fittings designed to help maintain leak-tight performance during startup, vibration, and pressure fluctuations
- Valves and hoses engineered for compatibility with diesel fuel, lubricants, and cooling media
- Material and finish options suited for high-temperature and corrosive generator environments
- Consistent component selection to support modular system designs across sites

Support That Goes Beyond the Component

- Application-specific guidance for fuel, lube oil, cooling, and instrumentation systems
- Assembly training to help ensure proper installation and long-term performance
- Standardization recommendations to reduce variability across generator platforms and facilities
- System evaluations to identify potential leak points, contamination risks, and reliability concerns before failures occur

By combining engineered products with practical, field-informed support, Swagelok helps data center operators, engineers, and EPCs reduce unplanned downtime, simplify maintenance, and improve confidence in backup power systems—before they're needed most.

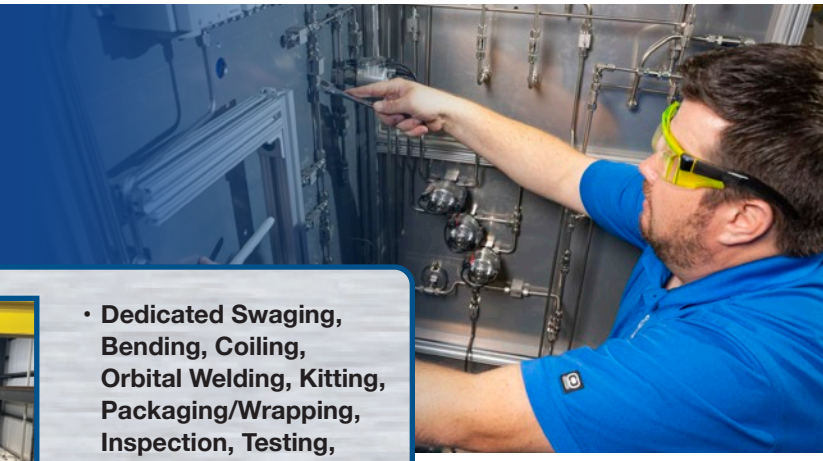


Let's talk about your backup power system reliability

Connect with your local Swagelok team to reduce fluid system risk through leak-tight components, standardized solutions, and application expertise built for performance when it matters most.

Your Local
Design & Build Services

We can help you save time, money, and worry when your production schedule is tight.





State-of-the-Art, 5,000-square-foot Working and Staging Area



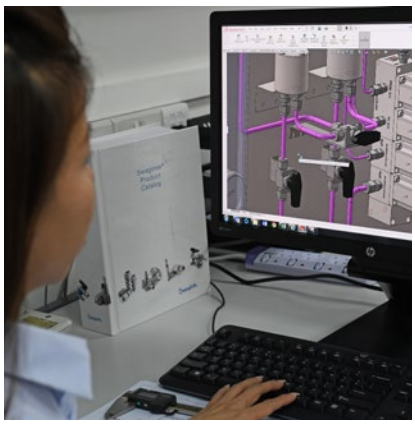
5-ton Overhead Crane, with 18-foot clearance

- Dedicated Swaging, Bending, Coiling, Orbital Welding, Kitting, Packaging/Wrapping, Inspection, Testing, and Cleaning Stations
- Climate-Controlled Environment

- Gas Purge Panel and Enclosures
- Distribution Manifolds
- Custom Flex Hose Assemblies
- High-Volume Bent Tubing Assemblies
- Sample Cylinder Assemblies
- Standard Instrumentation Mounting Kits
- Ultra-High-Purity Welded Manifolds
- Gas Delivery and Distribution Panels
- Gas and Liquid Grab Sampling Panels
- Mechanical Seal Support Systems
- Instrumentation and Transmitter Assemblies/Enclosures
- High-Pressure Test Stands
- Simple and Highly Complex Tube Bending
- Heat Exchanger Tubing Coils
- Gauge Block-and-Bleed Valve Assemblies
- Automated Ball Valve Assemblies
- Pre-Set Relief Valves
- Maintenance Programs for Sample Cylinders and Flexible Hoses
- CAD and P&ID Design Assistance







WALKING *the* WALK



In an age where suppliers promise professional follow-ups and follow-throughs, we actually stand by our word.

Swagelok, globally, and Swagelok Pittsburgh | Tri-State Area, locally, are not just providers of top-quality, dependable fluid-system Products and Strategic Support Services. **We are the brand you can RELY on –** in any application/project challenge – for superior Technical Expertise, especially when choosing the ideal components for your most formidable jobs. Our Customer-First external and internal representatives and master Fabrication technicians are routinely trained and tested to ensure that you receive recommendations that will lead to reduced downtime, overall cost-effectiveness, and, ultimately, results that will enable you to get more done safely, quickly, and confidently.

...For Premium-Quality LEAK-TIGHT PRODUCT PERFORMANCE





TUBE FITTINGS



VALVES



HOSES & FLEXIBLE TUBING

...For Value-Added STRATEGIC SUPPORT SERVICES





CUSTOM FABRICATION



HOSE ADVISORIES



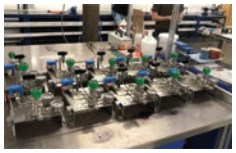
LEAK LOSS AUDITS



GRAB SAMPLING SYSTEMS



MECHANICAL SEAL SUPPORT SYSTEMS



GAS DISTRIBUTION SYSTEMS



SAFETY TRAINING



TOOL RENTALS

...For Field-Proven and Technician-Trusted TECHNICAL EXPERTISE











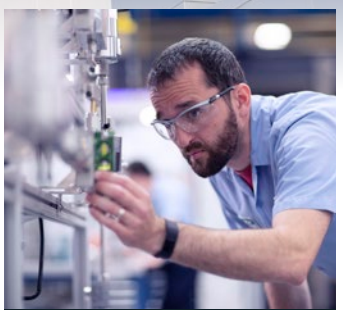
In all ways, every day,
we're right here for you!



WHY SWAGELOK?

Find YOUR Answer in
The Swagelok Advantage

1. We **understand** your workplace realities
2. We **offer** the industry's unparalleled, premium-quality, leak-tight Products and supplemental Strategic Services to help you overcome even your toughest application challenges
3. Most importantly, we are **built** to fully support your safety, productivity, efficiency, performance, and profitability





OUR FOUR FOUNDATIONAL PILLARS

Uncompromising Product QUALITY:
Reliable Performance You Can Trust



Our Componentry is designed and made for repeatable, leak-tight results in even the most demanding applications.

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

Dependable Product AVAILABILITY:
The Right Products When and Where You Need Them



We provide massive inventories, shorter lead times, and proactive communication.

90% of standard products on shelf at order

Global STRENGTH / Local SUPPORT:
Rapid Responsiveness When and Where You Need Us



Swagelok Pittsburgh | Tri-State Area is driven by the full power of Swagelok Company as we address your systems, requirements, and timelines – exceeding your expectations.

200+ global locations serving 100,000 customers

Technical EXPERTISE & Problem Solving:
Trusted Answers for Your Toughest Challenges



Our unparalleled field-ready know-how helps you diagnose problems faster – for optimum and ever-expansive team/system performance.

450 local field engineers solving problems

Put Our Team Alongside Yours

To learn more about how we can assist your Data Center project, contact:



Zach Barefoot
Manager – Business Development
zach.barefoot@swagelok.com



Tony Del Bianco,
Technical Sales Representative
tony.delbianco@swagelok.com

P: 412.761.3212 **W:** pittsburgh.swagelok.com

SwagelokPittsburgh @swagelokpittsburgh Swagelok-Pittsburgh-Tri-State-Area

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