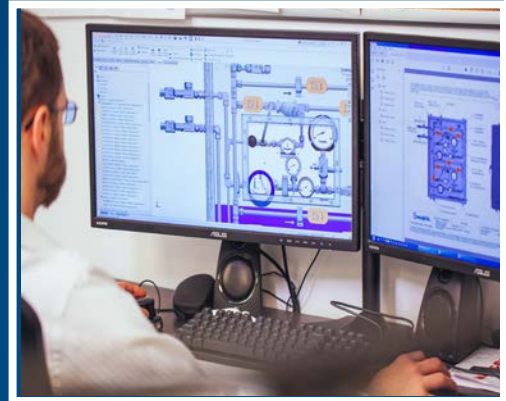


SWAGELOK® FABRICATION SERVICES

PROVIDED BY SWAGELOK PENN



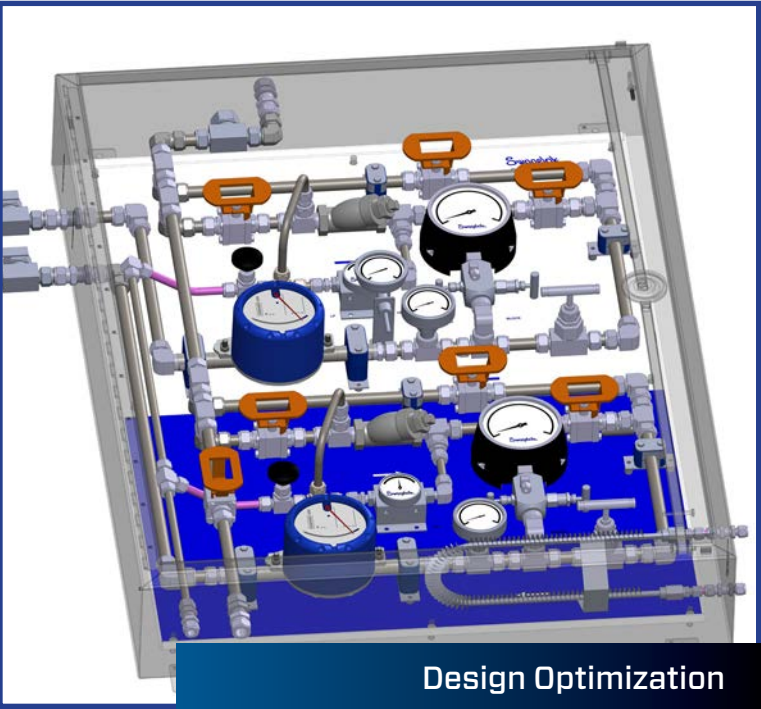
Take advantage of Swagelok Penn's expertise as an integrated supplier — and let us handle the building & testing of your fluid system assemblies.

Swagelok®

Penn Fluid System Technologies

ENHANCE CAPABILITIES.
MULTIPLY RESOURCES.
EXTEND WORKING CAPITAL.

IMPROVE SAFETY AND
SYSTEM RELIABILITY.



Design Optimization

When resources are limited, take advantage of Swagelok Penn's local fabrication capabilities for a complete turnkey solution.

DESIGN OPTIMIZATION

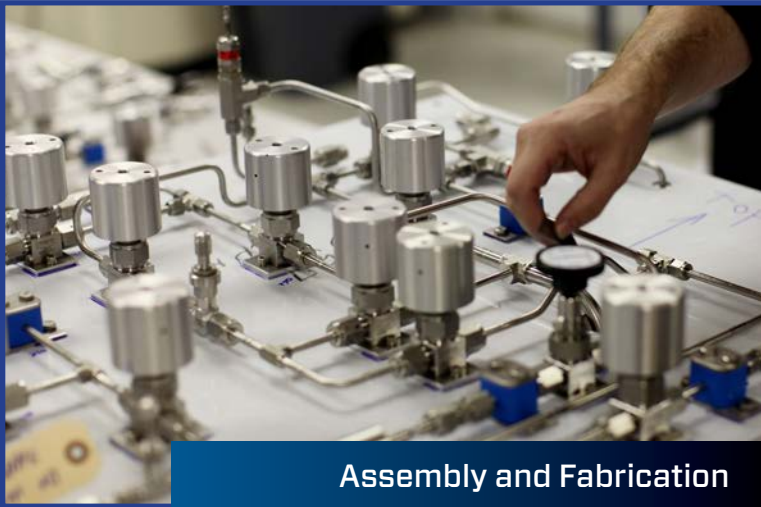
When designing fluid control systems for a new product or redesigning existing fluid control installations, it is important to consider reliability, maintainability, and proper product selection. Swagelok Engineers bring expertise in fluid control systems, optimizing these criterion:

- Connection reduction — fewer connections means fewer potential leak points which results in a much more reliable fluid control system.
- Layout considerations made during design, allow product within systems to be easily accessible for maintenance.
- Proper product selection — Swagelok Engineers' deep understanding of all Swagelok products plus other critical fluid system components, help customers select the correct product. With the right product in place, systems will run as intended to satisfy end user specifications.

ASSEMBLY & FABRICATION

Start with some of our most widely known products: valves, regulators, gauges, flowmeters & manifolds. Add the expertise required to put together the componentry into a solution you can use. We will pull from our extensive, local inventory and order any necessary parts. We will also source and integrate any non-Swagelok products into your assembly, as required. The results? Custom component, assembly, and enclosure fabrication, including:

- | | |
|---------------------------|------------------------------|
| • Regulator Panels | • Purge Gas Control Panels |
| • Changeover Manifolds | • Skid Fabrication |
| • Oxygen-safe Assemblies | • Welded Subassemblies |
| • Lube Oil Skids | • Spool Pieces |
| • Instrumentation Panels | • Automated Ball Valves |
| • Hose Assembly & Testing | • Sample Cylinder Assemblies |



Assembly and Fabrication

What else can we do to help you when you're up against a deadline, and you want to be sure your solution meets and exceeds safety standards?

QUALITY ASSURANCE, TESTING & DELIVERY

We will provide a CAD Drawing of your assembly, a technical quotation, firm pricing, project timeline, and delivery information. We can also create a drawing from an existing P&ID. Your assembly will go through a thorough quality inspection and final testing before it's delivered to you. Snoop®, pressure decay, hydrostatic, helium leak testing, and functional testing available. We are backed by the Swagelok Quality System (SQS) and we are ISO 9001: 2015 certified.



CERTIFIED FABRICATION TECHNICIANS

Assembly services that Swagelok Penn's Fabrication Technicians perform are backed by Swagelok-administered and certified training. Each technician undergoes comprehensive training, certification, and re-certification programs to ensure your system is assembled to strict guidelines, providing you with reliable, consistent operation.

BACKED BY THE SWAGELOK WARRANTY

Like everything else we provide, our Fabrication Services are backed by our Limited Lifetime Warranty. All warranties are not the same among fluid system component suppliers. You will find warranties that end after installation, as well as after one year. We are proud to share that Swagelok components & our fabrication workmanship are supported by the Swagelok Limited Lifetime Warranty. This is a testament to the quality and reliability that we have represented for over 70 years.



Testing Performed Locally



Certified Fabrication Technicians



Backed by the Swagelok Warranty

LOCAL FABRICATION CAPABILITIES

TECHNICAL & APPLICATION EXPERTISE

BENEFITS OF OUR LOCAL SERVICES

Our goal is to provide greater value to our customers by reducing their overall costs. Ordering single line item assemblies reduces both purchasing & receiving costs and can speed up lead times.

Benefits of utilizing our local fabrication services, include:

- Consistent product quality & reliability
- Reduced planning, assembly, & purchase costs
- Technical capability & application expertise
- Local design review and Factory Acceptance Testing is easy to schedule (at our facility or virtually)
- Assembly testing performed locally
- Qualified process and QC procedures
- Warranty on all products & services
- Ease of purchase — one local supplier from start to finish



Mechanical Seal Support Systems

WE CAN SUPPORT POTENTIAL SKILL GAPS

We can support potential skill gaps in smaller organizations or allow for expansion of existing skills when a sudden increase in production output is necessary, including:

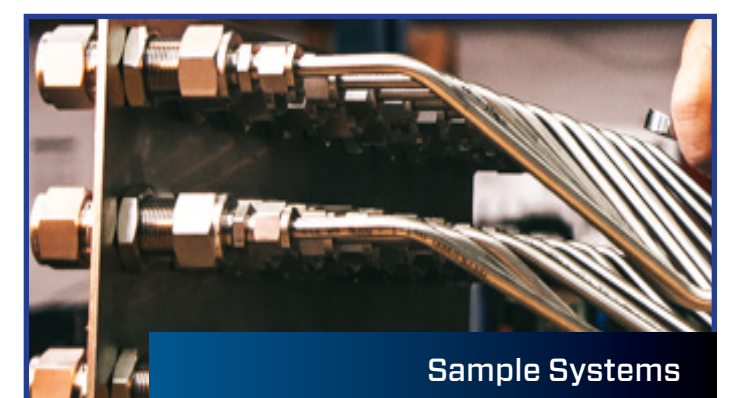
- Orbital Welding
- Helium Leak Testing
- OEM Subassemblies
- Design & Engineered-to-Order Services
- CAD Assistance
- Complex and Simple Tube Bending
- Hose Fabrication - custom Hose Cell onsite



Orbital Welding



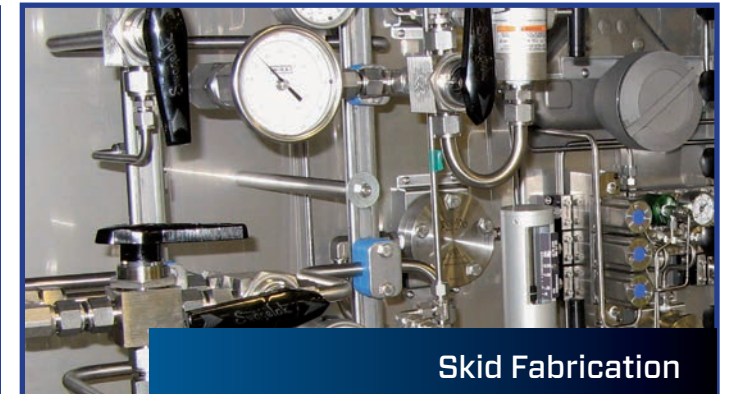
Grab Sampling



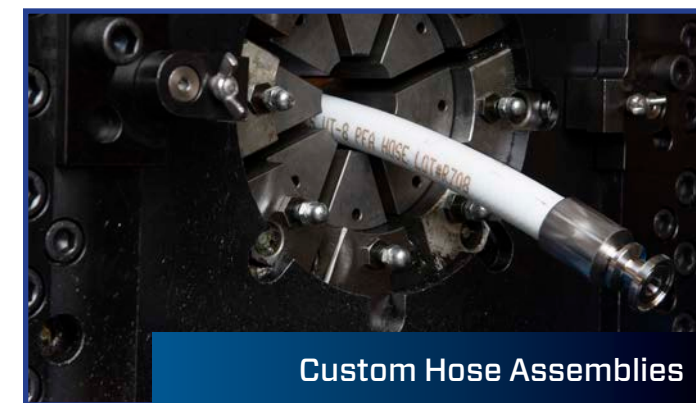
Sample Systems



Instrument Enclosures



Skid Fabrication

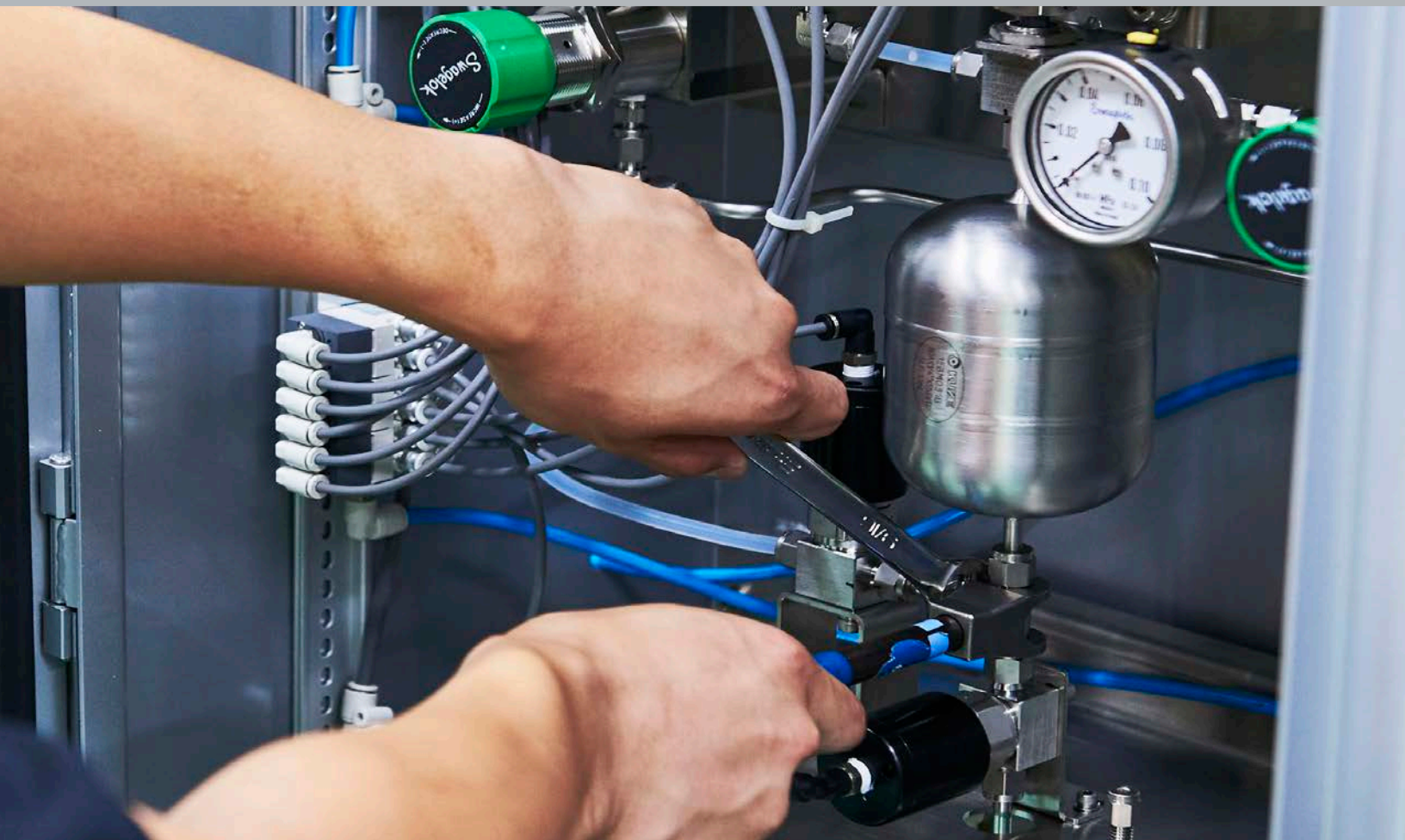
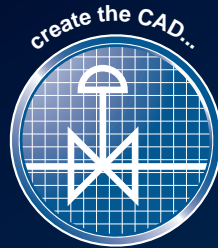


Custom Hose Assemblies



Pigtail Pressure Gauge Siphons

WE DELIVER FROM CONCEPT TO COMPLETION



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Swagelok®

Penn Fluid System Technologies