





Assembly and Fabrication Services

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



Enhance Capabilities. Multiply Resources. Extend Working Capital.

When resources are limited or potential skills gaps exist, take advantage of Swagelok North Carolina | East Tennessee's Assembly and Fabrication Shop for a complete turnkey solution.

When you work with our team you can trust us to provide consistency and peace of mind, knowing your assembly is fabricated by certified technicians with a vast amount of experience and backed by our limited lifetime warranty allowing you to focus on your core business.

From concept, through design, fabrication and testing rely on Swagelok as your project management partner.



Design Optimization



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

- 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 satisfying end user specifications.



Assembly and Fabrication



Start with some of our most widely known products: valves, regulators, gauges, flowmeters and manifolds. Add the expertise required to put together the components 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
- Changeover Manifolds
- Oxygen-safe Assemblies
- Lube Oil Skids
- Instrumentation Panels
- Hose Assembly
- Purge Gas Control Panels
- Skid Fabrication
- Welded Subassemblies
- Spool Pieces
 - Automated Ball Valves
 - Sample Cylinder Assemblies

Quality Assurance, Testing and Delivery

We will provide a CAD Drawing of your assembly, a technical quotation, firm pricing, project timeline, and delivery. 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. We ensure each assembly is leak-free through 100% testing. Available options include:

- Bubble Leak Detection Film Solution
- Bubble Leak Detection Immersion
- Helium Leak Test Inboard and Outboard

All assemblies are backed by the Swagelok Quality System.



Backed by the Swagelok Warranty

We are proud to share that Swagelok components and our fabrication workmanship are backed by the Swagelok Limited Lifetime Warranty. This is a testament to the quality and reliability that we have represented for over 70 years.



Local Custom Fabrication Capabilities



High-volume Tube Bending and Coiling

Specify Swagelok pre-bent tubing in sizes 1/8 up to 2 in. O.D. or coiled tubing from 1/4 to 1/2 in. O.D. in diameters ranging from 4 1/4 up to 52 in.



Regulator Gauge Assemblies

Our regulator assemblies offer the most frequently requested configurations for gas bottle or inline service utilizing K-Series pressure reducing regulators.



Panel Fabrication

Discuss your panel design requirements with us. We can customize point-of-use regulator panels, gas cylinder changeover manifolds, grab sample panels and more.



Hose Assemblies Choose from a vast selection of hose products, then let us cut them to your specified length and fabricate custom end connection configurations.



Enclosure Fabrication

When you need systems enclosures, we can assist with even the most complex designs. If you require non-Swagelok components, we can support you there too.



Orbital Welding Achieve quality welds on stainless steel tubing or other alloys upon request. Our welders are certified in ASME Section IX standards.

Save Time with Standard and Configurable Assemblies

Swagelok design, fabrication, and assembly experts have worked with businesses across the globe to add efficiency and reliability to their operations by delivering reliably designed and constructed fluid system assemblies. Standard assemblies include:



Gas Distribution Systems

We evaluate existing gas distribution systems and build standardized, configurable gas delivery systems to help protect system operators, increase process uptime, and improve process accuracy and repeatability.





Grab Sampling Systems

Customizing Swagelok grab sampling systems allows for safe, efficient sample capture while meeting your specific plant application needs. The panels are available in a variety of configurations and advanced features.





Mechanical Seal Support Systems

Our seal support systems are guided by API 682 and offered as kits and assemblies. These systems reliably supply either gas or liquid to the mechanical seal to regulate the environment in which the seal operates, increasing longevity.

Why consider our Assembly and Fabrication Shop?

We have over 15 years' experience in assembly and fabrication, technology, state-of-the-art equipment, and certified personnel to get the job done right - the first time.

- Mechanical and Electrical Engineers on staff to assist in layout and system designs
- 3D CAD modeling via SolidWorks
- 7,000 square foot fabrication shop
- Swagelok Certified Technicians
- Swagelok Quality System (ISO 9001 compatible)

We're local and global. From project start to completion we ensure your unique requirements are seamlessly met through our partnership with Swagelok Global Technology Centers allowing us to tap into the knowledge and expertise from Swagelok's corporate engineering, fabrication and assembly teams.





We deliver from concept to completion. Contact us to get started today.

Swagelok

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