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Swagelok in Action: Turnkey Assembly Solutions for Real World Applications

Piecing It All Together
At Swagelok, we’ve been crafting sophisticated solutions for critical fluid system challenges since 1947. We build systems both complex and simple, helping you put everything together in the easiest, most efficient way. From substituting valves to configuring a complete system, our engineers provide assistance at every project stage — updating old assemblies, expanding existing systems, crafting and troubleshooting new setups. No matter what your manufacturing process, we’re here to make it easier for you to do business.

The following case studies highlight turnkey assembly solutions of all kinds, from mobile labs to compact chillers. See for yourself how Swagelok in action can change the shape of a manufacturer’s business.

Providing Start-to-Finish Engineering Services
The most complex systems begin with the simplest ideas, and assemblies are no exception. From the first project inquiry to a completed operating assembly, the Swagelok team is on-hand. For the following project, we started with nothing but a pencil sketch.

Case Study 1: Complex Mount Solutions for the Semiconductor and Chemical Manufacturing Industries
Thermocouples are used in many day-to-day applications. In homes, businesses, and offices, they act as temperature sensors in our thermostats and flame sensors in our appliances’ safety switches. These electrical devices are simple, cost-effective, and offer robust measurement capabilities.

An essential tool in a wide range of temperature management and measurement applications, the versatility of thermocouples means that their manufacture varies greatly. Depending on the application, they are available as probes, probes with independent connectors, transition joint probes, and even in bare-wire style and infrared models.

An effective thermocouple assembly can be critical to industrial operations and the monitoring of sensitive liquids, gases, and mechanical systems.
**The Challenge**

The client, a producer of chemicals and specialty components for the semiconductor industry, was dealing with a thermocouple assembly challenge. In order to effectively monitor temperatures in their assembly, they needed to create a complex mount that didn’t yet exist — within a two-week window.

The client’s team was able to provide a rough pencil sketch of the basic design needed for their system, but they had no precise drawing, components, or engineering available to support it.

The system media involved a series of various semiconductor precursors, as well as services for low pressure and low temperatures, or a “cold trap.”

**The Solution**

Ready with expert technical advice, Swagelok Northern California’s engineering team got to work immediately. With a pencil sketch in hand, they quickly crafted a clean CAD plan, from which they could roll through a series of refinements and iterations. Once the drawings and CAD design had been worked out, the team delivered not one, but four unique custom assemblies — all within the customer’s critical two-week window.

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**Before**

![Thermal measurement tap tee assembly drawing](image)

**After**

![Thermal measurement tap tee assembly CAD](image)
Case Study 2: A One-Stop Shop for Assembly Solutions, from Design to Production

We handle the heavy lifting so our customers don't have to — all the way through final manufacturing and assembly, and even with a tight turnaround. All of our work is backed by dedicated service, reliable delivery, global support, and our industry leading limited lifetime warranty.

For this project, Swagelok developed, manufactured, and delivered a chiller box assembly with the ease of a one-stop shop, servicing even the most stringent requirements.

Compact Chiller Box Development and Production for the Semiconductor Industry

The design and manufacturing processes involved in the semiconductor industry rely heavily on ideal environmental conditions. Gas quality, purity, moisture levels, and temperature all play a critical role in an operation's success.

The Challenge

An original equipment manufacturer in the semiconductor industry had specific requirements for the design of a chiller box. It needed to be cost effective while handling specific necessary flow rates without any kind of leakage. It also needed to fit within a small footprint as a final assembled system.

The customer didn't have in-house design engineering to fully develop the concept, so they required assistance in both crafting the design and assembling the final chiller box. They were also working on a tight timeline with a limited budget. Without quick development and manufacture, the chiller box would stall other manufacturing processes and delay final shipment dates.

The system needed to be capable of operations as low as -40 degrees Fahrenheit, as well as handling glycol — an extremely difficult medium to contain without leakage. The combination of these requirements meant that high-performance components and high-level engineering were critical; the system would inherently have a strong tendency to leak.
The Solution

With Swagelok’s engineering skills and our wide array of high performance components, our team was able to quickly and efficiently provide a carefully designed system that met all the necessary criteria, fitted within a small footprint and impervious to leaks.

The manufacturing team produced the chiller boxes well ahead of the deadline and within the client’s budget. With the help of just a single company, the client successfully met all of their project needs.
Case Study 3: Meeting Any Deadline with On-Demand Engineering

Lost time in industrial companies comes at a heavy cost — not only in terms of money, but also for productivity. At Swagelok, we can recommend a turnkey solution for any assembly problem, exactly when you need it.

For this project, the team developed an immediate solution to a panel assembly challenge, keeping a research and development lab’s work on track.

Panel Assemblies and Product Selection in Research and Development

Temperature, purity, and moisture levels are all critical elements in the design and manufacture of semiconductors. Precise, efficient management of these elements allows for both ease of operation and innovation.

Talented engineers and researchers depend upon sophisticated assemblies to help get these jobs done.

The Challenge

The research and development department of a major semiconductor manufacturer was thriving, but they had run into a tricky deadline with the creation of a panel assembly for an expansion project. If they couldn't find a solution in time to meet the deadline, the department’s expansion would be halted.

While the team's engineer had no knowledge of Swagelok components or assemblies, the client reached out to us for immediate help, requiring design service with a quick turnaround and readily available components.

The panel assembly in question required managing pressure coming out of a cylinder and traveling into a regulator. The line carried oxygen, hydrogen, and nitrogen at an ambient temperature. The gases started under a significant pressure of several thousand PSI from the cylinder, and needed to come from the regulator at roughly 40 PSI.
The Solution

The Swagelok team responded immediately, traveling to meet with the client and examine the situation. The engineers reached out for consultation and helped build the needed panels, introducing the client's research team to a whole new family of components and parts.

Bearing in mind the project's pressing time frame, our specialists selected the best components available to meet the technical requirements, including regulators, XT series hoses, gauges, and needle valves. The team also developed a plan for growth, designing panels for future implementation when necessary. The future of this client's R&D expansion is now brighter than ever.
Case Study 4: Creating Compact Assemblies for Mobile Applications

Restricted time, budget, and space are just a few factors that commonly affect assembly projects, and every single situation is different. With engineering expertise, a reliable partnership, and dedicated service, our team rises to any occasion — in this project, by developing a mobile lab for a very small space.

Mobile Assemblies with Modern Capabilities for Government & Utilities Industries

Constant research and lab support are critical to operations in industries such as oil and gas, chemical and petrochemical, pharmaceutical, and utilities. Carefully monitoring all necessary materials, conditions, and equipment can present a serious challenge — especially when operations are spread out across different locations.

The Challenge

The client, a large utility company, manages complex operations across multiple locations. In order to provide appropriate support to every location, they needed a mobile lab service. Unfortunately, older mobile designs would not fit in a new setup — the space was just too small. They had tried several different solutions, but always came up slightly short; the assemblies needed for their work were simply too big.

The system media was straightforward enough: water. However, it needed to handle pressures upward of 5000 PSIG. The temperature needed to remain ambient, and all components were required to be 316 Stainless Steel.

The Solution

The engineering team at Swagelok Northern California had a vision for a system with both a smaller footprint and higher performance. In order to create a more efficient panel, they replaced the older design’s needle valves, which were being used for on/off service, with quarter-turn shut-off valves. With solid teamwork, the solution was completed in a matter of hours.
This solution actually streamlined the entire panel design. With the new quarter-turn ball valves, the overall assembly was compact enough to attach to the mobile lab inside the client's van, making it fully capable of completing any on- or off-site work.

In spite of a series of design challenges and a decision-making process that took nearly a year, the final mobile lab was a great success.
Case Study 5: Making It Easier to Do Business with Smart Components

The Swagelok team builds CAD drawings for new ideas, troubleshoots hang-ups in existing systems, and makes installation, operation, and maintenance as straightforward as possible by calling upon our vast inventory of specialty parts.

In this project, we helped the client change potentially confusing components from a complex assembly into a system with foolproof parts. The installation results? Seamless.

Foolproof Hose Installation for Complex Assemblies in the Semiconductor Industry

The concept of Poka-yoke comes from Japanese engineer Shigeo Shingo at Toyota, and has guided error prevention in industrial spaces worldwide since the 1960s. Directly interpreted to English, the term “poka-yoke” means “mistake-proofing” or “inadvertent error prevention.”

Applied to manufacturing, a poka-yoke device helps to easily prevent common mistakes: incorrect part production, improper system assembly, or erroneous tool use. It’s the first step in error-proofing a system.

Putting a poka-yoke in place helps ensure that the process, equipment, or tools in question are as successful as possible. The actual components of such an assembly make it impossible for a user to make a mistake, thus saving time, equipment, money, and frustration.

The Challenge

The client, an original equipment manufacturer in the semiconductor industry, had an assembly installation problem. The system needed to serve both supply and return in a cooling media assembly, but the supply and return hoses in their working assembly were very similar. This made for a confusing installation process — technicians were installing the components backwards.

In order to keep the assembly and maintenance flowing smoothly, they needed to find a poka-yoke solution to assist their technicians and operators — the hoses needed to be clearly differentiated.
The Solution

After meeting with the engineering team at Swagelok Northern California, the answer was clear: the hoses themselves could be redesigned to help with ease of installation, maintenance, and operation, for the whole system.

The team quickly selected different end connections for the hoses in question. By giving each hose a unique type of connection, it was physically impossible for the assembly installation technicians to reverse the supply and return components — backward installation was no longer an option.

The solution was low-cost, the parts were readily available, and the client no longer needed to worry about inadvertent errors with their assembly hoses.
Case Study 6: Sample Collection Challenges in the Petrochemical Industry

In crude processing, sample collection is key to ensure successful operation and a high quality final product. Petrochemical companies require a variety of different gasses and liquids to be collected and accurately evaluated on a regular basis to achieve the proper balance and formulation for chemicals, fuels, and more.

The Challenge

A Swagelok customer needed to reliably collect gas samples from their plant using sample cylinders, which would then be transported back to a lab via truck for testing and analysis. Technicians were utilizing Swagelok Quick Connect Parts (SS-QC6-D-4PF/SS-QC6-B-4PF) for sample collection, but the valve stem tips were routinely getting bent and damaged during the process.

The Solution

Our Swagelok team determined that the valve stem tips were getting bent by both technical operations (the technician would unintentionally jam the stem tip into the body of the quick connect without aligning it properly) and transportation (the samples would accidentally fall or get jostled in the truck). We turned to our comprehensive Quick Connect inventory to find a better fit: an alternative Quick Connect from our QTM series.

The new part increased productivity and eliminated the problem of bent tips; its durable, recessed stem is never exposed to potential accidental damage. After extensive review and analysis, including hands-on testing with the engineering department, our customer updated their entire inventory of 200 complete cylinder sets with new QTM2 Quick Connects. Not only was the problem solved, but they also gained larger flow capacity for improved sample collection and efficiency.
Case Study 7: Custom Panel Assemblies in the Oil and Gas Industry

Specialized assemblies play a role in driving countless industries, from operational procedures to equipment and machinery. Panel assemblies are a great example of a compact, critical working component.

The Challenge

Our OEM client had established their core business by manufacturing industrial and environmental machinery, but they received a new project that incorporated assembled panels. They wanted to deliver the requested high-quality Nitrogen Purge Panels for the customer, but didn’t know where to start for selection criteria, the decision process, or even design work — panels were not among their specialties.

The Solution

The manufacturer called Swagelok Northern California for calibration certificates and technical information on flow meters. The Swagelok Northern California representative offered assembly service, which they didn’t even realize was an option. The manufacturing team's engineers, purchasing staff, and manufacturing managers met with Swagelok specialists to finalize a design and order for the complete, custom-built panels.

By outsourcing the panel build to our assembly specialists, the manufacturer was able to focus on maintaining their core business — and still offer a superior final product to their customer. Swagelok engineers were able to reduce the project's footprint, simplify its design, and reduce possible leak points by minimizing the number of threaded connections. In addition, long component lead times were either eliminated or reduced through product substitution and supply chain planning, avoiding any possible delivery delays.

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NOTES:

ON ALL FASTENERS USE THREAD LOCKING COMPOUND1.

PRELIMINARY

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REVISIONS

REV. DESCRIPTION DATE

D CHANGED PRESSURE TRANSMITTER AND GAUGES PER CUSTOMER REQUEST MAR16

E CHANGED PRESSURE TRANSMITTER PER CUSTOMER 6/16/2016

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This assembly is quoted per your request. The assembly concept depicted may not be disclosed to others without prior written approval.

It contains Swagelok components and may contain other components not manufactured by Swagelok as you specified. Please note that the Swagelok Limited Lifetime warranty applies to Swagelok components only. The other manufacturer's warranty applies to their components.

Is testing required _____YES ____NO     If YES, please attach testing requirements

COMMENTS:

Swagelok built and designed panel
Case Study 8: Creating Leak-Free Assemblies for Greenhouse Gases in the Power Industry

Sulfur Hexafluoride (SF6) gas has long been a popular dielectric and insulating material in the electric power industry. Nontoxic, nonflammable, and noncorrosive, the material offers high chemical stability, excellent thermal conductivity, and a long list of additional benefits, including ease of installation, handling, and maintenance.

Unfortunately, SF6 is also a greenhouse gas, thus requiring extremely careful management and attention to possible emissions.

The Challenge

A public utility company’s high voltage transformers, insulated with SF6 gas, required routine monitoring for moisture levels and removal of moisture when detected. The technicians were struggling to make the connections between their equipment and the installed transformers across many varied sites — they needed a standardized adapter solution.

The Solution

Developed to connect quickly and simply with minimal spilling and air inclusion, Swagelok Quick Connects were the answer. Utilizing these high performance adapters and custom engineering, the Swagelok Northern California team worked with the customer’s mechanical engineers to devise a solution. They also crafted supporting CAD drawings for an efficient, standardized, safe, and leak-free assembly to help maintain and protect the transformers’ insulating systems.
Case Study 8: Creating Leak-Free Assemblies for Greenhouse Gases in the Power Industry

The Solution cont.

In order to deeply understand both the problem and solution, the Swagelok team visited the unique sites and provided technical support to ensure maximum efficiency and zero leaks. The greenhouse gas was effectively contained, and the technicians could now perform essential maintenance with confidence and ease.
Case Study 9: Optimized Assembly Design Services for Ideal Operating Conditions

Manufacturing depends on creating the best possible operational environments, and semiconductor manufacturing is no exception; temperature, purity and moisture levels are all critical elements for successful production. Precise and efficient control of these conditions depends upon sophisticated assemblies.

The Challenge

The manufacturer, a dedicated Swagelok customer, routinely purchased specialty components to build chillers, air management assemblies, and other controlled gas assembly solutions. While their technical staff was highly skilled and capable of their own construction and assembly, they needed design optimization and assistance with regulator sizing.

The Solution

The additional expense of sourcing the Swagelok Northern California team to complete full assemblies (as opposed to simply sourcing parts) was negligible compared to the value gained by the manufacturer's production technicians' increased capacity to focus on higher value operations. In addition, Swagelok was able to build the same solution with a smaller footprint, fewer parts, and the same level of performance.

Not only did the manufacturer save time and money, they gained an immense value: a warranty on the full assembly as opposed to warranted parts only. The added quality and capacity also allowed the manufacturer to boost product output without any additional hiring or operational changes.
Case Study 10: Creating Quick Solutions for Threaded Connections in Analytical Instrumentation

Moving is always a hassle, but for technical operations, a change of location can be especially disruptive. For an air quality research lab based in San Francisco, moving meant taking essential test equipment offline and expediently reinstalling it at a new site. While relocation from an old building to a brand new facility in a California government lab was definitely an improvement, it wasn’t without challenges.

The Challenge

Handling lab gasses requires specific accommodations in plumbing systems, especially for a lab with a focus on air quality. Following construction, there were a number of unexpected loose ends that prevented facility employees from connecting their essential equipment — they needed a threaded connection solution that would address their installation problems without causing further delays.

The Solution

Within 24 hours of the lab’s call, the Swagelok Northern California team was on site to investigate the threaded connection issues. Based on our fast response times, diverse project experience, and knowledgeable team, the customer knew Swagelok was the right fit for the job. Working closely with the customer, our team of assembly solutions experts developed an innovative solution and created CAD drawings — all of which were delivered to the client the same day.

Swagelok’s design and assembly solution featured custom manifolds with tube supports and 1GS4 toggle valves, which would allow the technicians to isolate instruments whenever necessary. It also added a visual indication of valve position for efficient, clear operations.

Swagelok Assembly Solutions

The Swagelok team is proud to design, develop, and manufacture high-quality, general purpose, and specialty fluid system products of all shapes and sizes. We perform the work that your daily operations rely upon — and save you time and money, too.

We’re truly dedicated to working with every customer as an equal, devoted partner. To learn more about the unique advantages of a turnkey assembly solution for your next project, or to get to know our team, reach out today.
ABOUT SWAGELOK NORTHERN CALIFORNIA

Swagelok® sales & service since 1963

Since 1947, Swagelok has designed, developed, and manufactured high-quality, general purpose and specialty fluid system products. Today, Swagelok is a $2 billion company with approximately 5,400 associates, 20 manufacturing facilities, 6 global technical centers, and a network of 225 sales and service centers in 70 countries employing about 3,600 sales and service associates. Swagelok Northern California is the sales and service center serving 58 counties of northern California and northwestern Nevada.