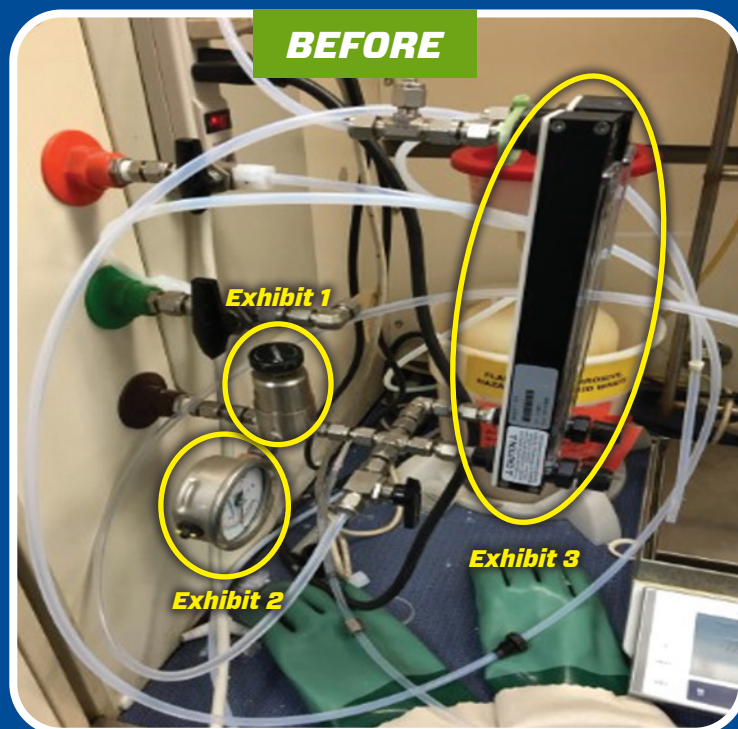


# Swagelok Pittsburgh | Tri-State Area

## ***Your Local Swagelok® Fluid-System Solutions Provider***

*A Chemical customer needed to significantly upgrade the safety, productivity, and efficiency around its Nitrogen applications inside the company's Research & Development lab.*



### ***Your Challenge***

- 10 lab hoods involved, but no two housed the same setup
- Many components were unsupported, with gas leakage always a major concern
- Simply far too many connections throughout each unique setup
- Gas lines randomly placed throughout lab; no formal organization
- Overall poor space management within lab
- **See Exhibit 1:** Regulator handle not optimally positioned
- **See Exhibit 2:** Gauge is sideways; difficult to read
- **See Exhibit 3:** Components unsupported and too far from one another; only tube fittings holding everything in place



### ***Your Solution***

Swagelok Pittsburgh | Tri-State Area collaborated extensively with our customer to help design and build 10 custom N2 instrumentation panels to required specifications.

- Now, all setups are uniform under each lab hood, greatly reducing chance for operator errors – while enhancing overall lab safety.
- Workspace has been substantially improved; clutter eliminated
- Significantly fewer connections involved
- Panels include four outlets: Three controlled by panel regulator (two filtered/one unfiltered) and one panel bypass – to facilitate expanded and simultaneous lab experiments.
- Built-in regulator enables system pressure to be dialed down to 3 psi for use with low-pressure/glass reactors
- Additional filters can be plugged into panels

***We can custom-design panels for your specific needs!***

### ***Your Healthy Bottom Line:***

Swagelok delivered a top-quality, highly dependable, cost-effective N2 panel that enabled customer to realize vastly improved safety, operational consistency, and repeatable performance throughout its lab.

# Your Helping Hand

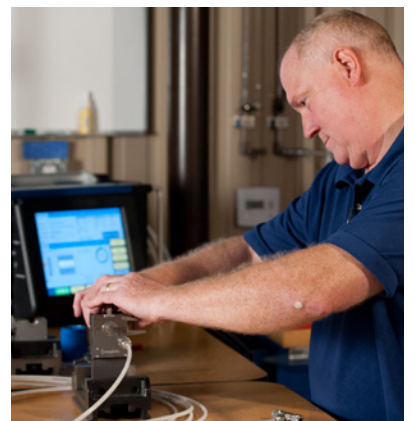
If you're short on manpower or your key personnel could be performing more critical work, our extensive, proven, and cost-effective **Swagelok® Design and Build services** could help improve your Bottom-Line health.



We can engineer and assemble safe, premium-quality, repeatable, and easily configurable fluid-system **instrumentation panels, skids, and enclosures** – including testing, inspection, and packaging – with all work 100%-certified by Swagelok Company and covered by the Swagelok Limited Lifetime Warranty.

## Just some of our local capabilities:

- Orbital Welding
- Helium Leak Testing
- OEM Subassemblies
- CAD Assistance
- P&ID Assistance
- Complex and Simple Tube Bending
- Hose Assembly and Testing
- Sample Cylinder Assemblies
- ....and so much more!





## Swagelok Grab Sampling System Panels

Enable and ensure safe, efficient capture of liquid or gas samples from pipelines, tanks, or process for storage and transportation to a lab for analysis... with chemical composition pristinely maintained!

### Two styles available:

**GSM**, which uses pressure-containing metal cylinders to deliver a sample that's held under the same process conditions as when extracted.



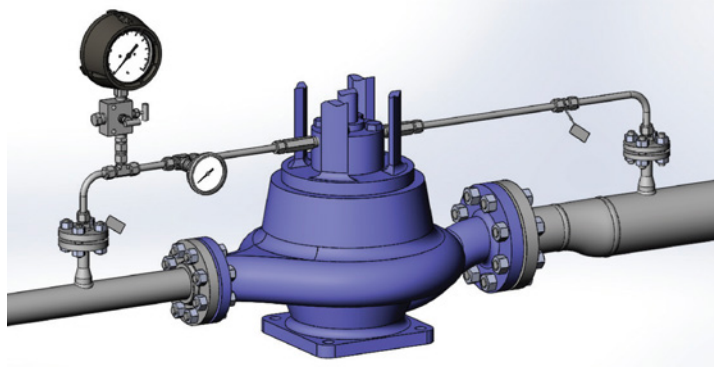
**GSL**, which employ economical, non-pressure-containing glass or polyethylene bottles with a self-sealing septum cap to prevent spillage.



## Swagelok Mechanical Seal Support Systems

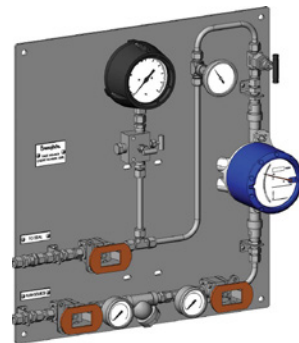
Ultra-reliable, simple to install and maintain, and will dramatically reduce your rotating equipment's leakage, harmful emissions, and pump vibration - with zero pipe threads and minimal connections involved!

**Seal Plan Kits**, with bent tubing and other 2" and under Swagelok Componentry.



**Seal Plan Assemblies**, including panels, seal pots, and skids.

All Swagelok Process Side Panels, Atmospheric Side Plans, and Between Seal Plans solutions are guided by API 682 designs.



## Swagelok Grab Distribution Program

Your ideal remedy when your system operation is not intuitive, when leakage is a concern, or when your gas panels are difficult to service - protect your workers, increase uptime, and improve overall process accuracy and repeatability!



Save time, money and worry with Swagelok fabrication expertise and application solutions. Contact:

**Gary Osman**


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