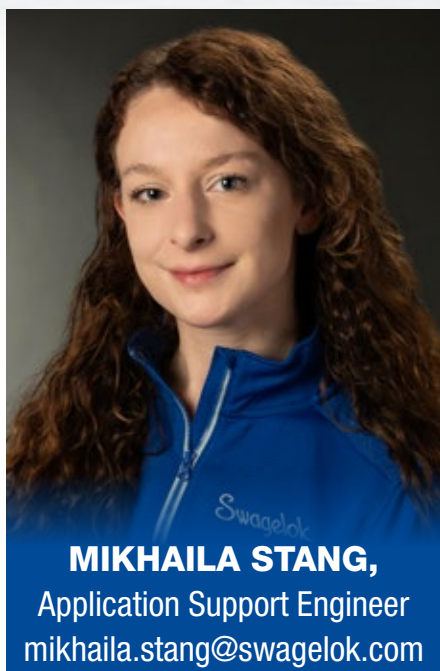


Team Building



Before joining us, Mikhaila was a Project Manager for Standard Elevator Systems in Memphis, Tennessee, where she specialized in technical/engineering customer support, including AutoCAD design layouts. While there, Mikhaila also produced detailed product manuals and process flow charts for her team's quoting, purchasing, and sales processes. She's also owned and operated a vintage clothing and collectibles store.

In her new role, she will work closely with our Sales, Operations, and Engineering teams to deliver highly

customized solutions ideally suited to your specific application challenges. In addition, Mikhaila will assist with inbound calls, providing trusted answers for your most pressing technical questions and issues.

Mikhaila holds a Mechanical Engineering Technology degree from Southwest Tennessee Community College in Memphis.

In her off time, this mother of daughter, Nova, and faithful dog, Greg, enjoys gardening, reading, hiking, antiquing, and volunteering at community gardens.



This brand-new father to Caleb comes to us after four years as a Project Engineer at Benkert Rigging in Cranberry Township, where he helped streamline operations and reduce overall operating costs. He has extensive AutoCAD experience, enabling him to improve our efforts to provide timely and highly detailed engineering drawings prior to any assembly work in our Fabrication Center. Prior to his time at Benkert, Nate was a Project Engineer at SMS Group, supervising steel mill equipment repairs, while also serving as a Safety Team Liaison between workers and management.

In his new role, he will help us more

effectively and efficiently move fabrication projects through our shop. Specifically, Nate will lead our quality assurance efforts for incoming inspection, outgoing testing, outgoing inspection, and approval documentation.

Nate is a May 2018 Mechanical Engineering graduate of Penn State University, Behrend Campus, where he was also a member of the SAE Super Mileage Club that developed a HCCI engine with 2,400 MPG efficiency!

Outside of work, Nate and his wife, Maggie, love the outdoors and, with Caleb and their dog, Beau, relish spending time together.

Welcome, Mikhaila and Nate!

SWAGelok PITTSBURGH | TRI-STATE AREA

Swagelok

Swagelok Pittsburgh | Tri-State Area

Our Local Fluid-System Solutions Provider

EMER
ODUCTS

STRATEGIC
SUPPORT SERVICES



EXPERT
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50% of most
could RETIRE
in the next 10 YEARS.
We can help bridge your knowledge gap.

YOUR PRODUCTION IS ON AN
UPTURN...
BUT YOUR RESOURCES ARE
SHRINKING. We can lend a hand.

INACCURACIES
FLUID SYSTEM
could affect the quality of your
FINAL PRODUCT.

42% of safety
incidents are
PREVENTABLE ERRORS.
We can help you prevent safety and production

We can help relieve your system pressure:
• Lower System Pressure • Remove System Impurities
• Reduced Application Complexity • Increase System Reliability
• Technical Support

REGISTER
HERE
FOR YOUR
CUSTOMIZED PUTTER

Global
Compression Services

GLOBAL COMPRESSION SERVICES

OUR
SERVICE
IS THE
DIFFERENCE.

Safety & Productivity INNOVATIONS on Display

Thanks to all who visited our booth at the recent Eastern Gas Compression Roundtable three-day event at the David L. Lawrence Center in Pittsburgh. There, we showcased our latest Midstream/Oil-and-Gas-specific product and support services solutions to give you a healthier Bottom Line:

- Grab Sampling: Closed Loop and Liquid Systems
- Gas Purge Panels and Enclosures
- Distribution Manifolds
- Industrial Hose: Metal, Thermoplastic, Fluoropolymer, Rubber
- Multi-Purpose Valves: 60-Series, GB-Series
- Technical Support: Application Inquiries, CAD, P&IDs...
- Safety Training: Tube Fitting Installation & Tube Bending, Advanced Tube Bending, Valve Essentials, Hose Essentials, Process Analyzer Sampling Systems/Maintenance, Orbital Welding...

And,
congratulations
to **David Williams**,
Senior Compressor
Technician at
Equitrans, the winner
of our custom-made
Swagelok putter!



BEING VISUAL

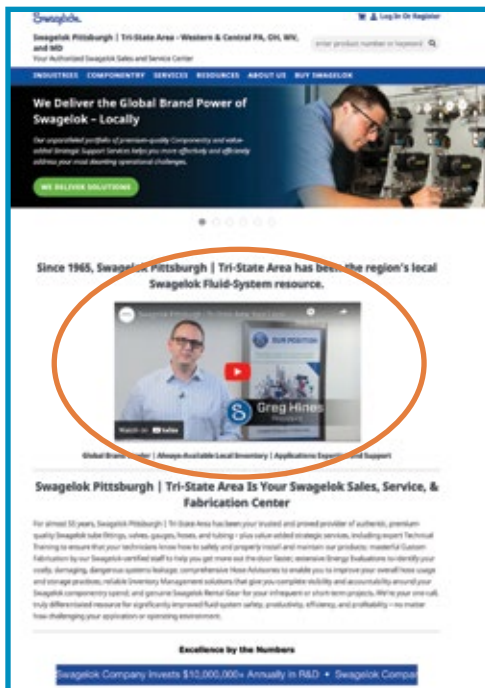
Swagelok Pittsburgh | Tri-State Area: Your Local ...

Watch | ... Share



Let us **show you** how we can make you safer, more productive, and more profitable! On the Swagelok Pittsburgh | Tri-State Area website, you can find our complete library of filmed properties, including our brand-new company overview video, our Quick-Look technical presentations, and our Reels snapshots that have recently started to appear on our Social Media channels.

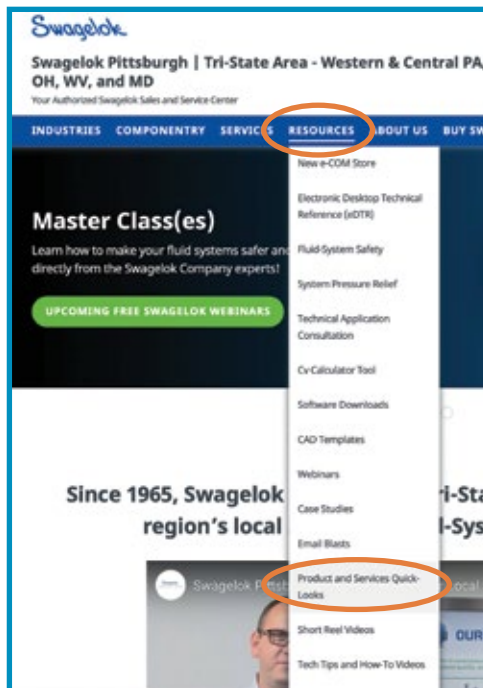
For our Company Video, visit our **home page**:



Or click here:

<https://pittsburgh.swagelok.com>

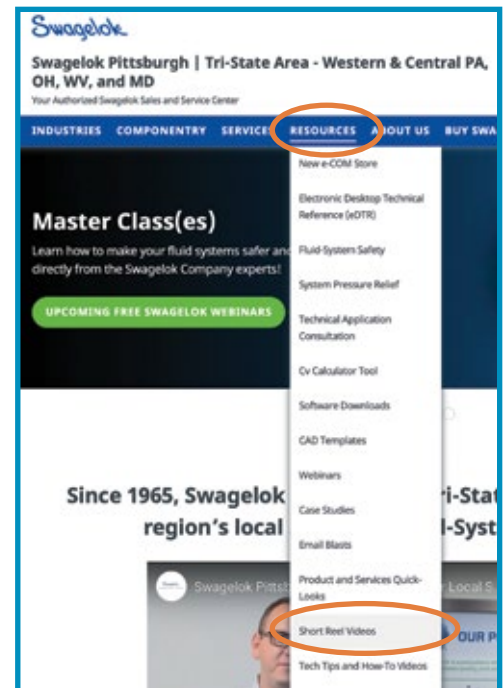
To see all of our Quick-Looks Videos, go to **Resources > Products and Quick Looks**:



Or click here:

<https://pittsburgh.swagelok.com/en/resources/product-and-services-quick-looks>

To see all of our Reels, go to **Resources > Short Reel Videos**:



Or click here:

<https://pittsburgh.swagelok.com/en/resources/short-reel-videos>

Enjoy... and, always remember, we're looking for the next local Swagelok testimonial! If you would like to go on camera and discuss how we've helped you save time, money, risk, or worry, contact: rudy.frank@swagelok.com

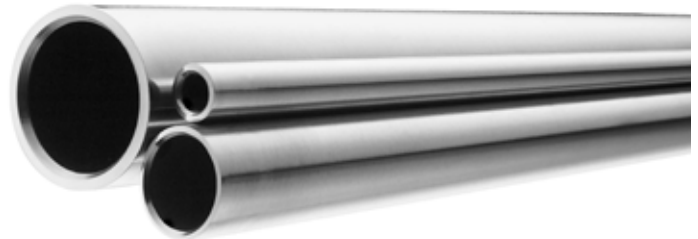
The ABCs of Tubing

Swagelok seamless Tubing is the often-unheralded partner of our renowned Tube Fittings to make your fluid systems perform at an optimum level, no matter how challenging your application.

Our Tubing story is as simple as:

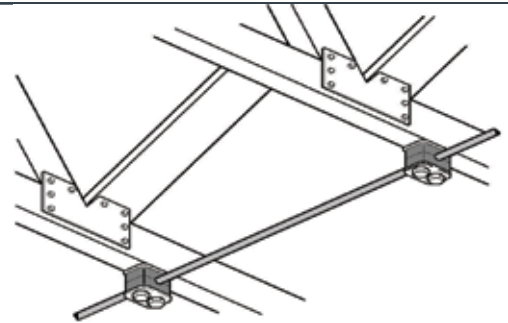
AVAILABILITY

Always on our shelves: 1/16" to 2" sizes in an array of premium materials. Our 20' sticks can be expertly custom-cut to whatever length you require.



BEST PRACTICES

- We can teach you the safest and proper way to bend tubing: We offer a one-day primer course in which participants learn how to master a hand tube bender; and a week-long Advanced Bending class where students learn how to make intricate offset, rolling offset, complex, parallel, and segmented bends.
- Let us precisely bend 1/16" to 2" tubing for you in our Design and Build facility – all work is performed by Swagelok-certified technicians and fully backed by the Swagelok Limited Lifetime Warranty.
- To help combat repeated impulse and vibration, we recommend Tube Support Systems to limit the movement of components.



Here are spacing guidelines as recommended by the Manufacturers Standardization Society:

Tubing Diameter OD	Distance Between Clamps
3/16" to 3/8"	3'
1/2" to 7/8"	5'
1" to 1-1/4"	7'

COMPOSITION

All our scratch-free tubing is made of top-quality, fully annealed (Type 304, 304/304L, 316, 316/316L, 317/317L) seamless or welded/drawn stainless steel: ASTM A269 or A213, or equivalent; offered in chemically cleaned and passivated, ultrahigh purity, medium-pressure heavy-walled, insulated and jacketed, or pre-insulated bundles.



FINEST IN THE FIELD

(SEVENTH IN A SERIES)

Customer Challenge:

A global refrigerant maker needed to maintain its premier-quality product reputation and consistency but had to determine a way to get its wares faster to market – while adhering to extremely strict environmental-protection protocols.



OUR SOLUTION:

Swagelok Grab Sampling Panels were employed to better ensure that, during production, our customer's end products, all highly corrosive and toxic, could not escape to atmosphere, thus endangering workers and the workplace. Only proven and trusted leak-tight, ultra-reliable open-loop, **316 stainless steel** systems could provide such assurance in the exhaustive battle against likely corrosion.

In four years of use, no glitches or leaks.

The Swagelok panels and sampling process have enabled our customer to collect samples safely and stably, contributing significantly to the plant's overall internal quality control – not to mention uptime, on-time deliveries, and pristine safety/sustainability record.



BOTTOM LINE:

Per the Chief Engineer: *"We believe in Swagelok to help us fend off our extremely aggressive and emerging competitors as we strive to offer even better, more reliable products to our customers."*

View our full story at: <https://www.swagelok.com/en/blog/changshu-3f-grab-sampling-case-study>

DON'T LOSE TO LEAKAGE

In the ongoing **bent tubing** versus traditional pipe debate, there's one true clear-cut winner – with far fewer connection points and, thus, a far less chance for costly and potentially dangerous leaks. Plus, tubing systems assemble faster and easier and, by employing bends, technicians do not need to cut, deburr, and install a new fitting for every directional change. There's also less system turbulence because bends enable fluids to flow more easily. Lastly, a lightweight tubing system has a substantially more compact footprint, with minimized and simpler maintenance.



DO THE JOB **RIGHT,** USE THE RIGHT **TOOLS**



In the previous article, we detailed exactly why tubing is a much more effective and efficient choice than pipe for your fluid systems. However, **HOW** you bend the tubing will ultimately make all the difference for optimum system performance.

Start with the proper bending equipment. For making precise smaller bends, make sure your selected **Hand Tube Bender** incorporates these key features:

- Clevis Handle Design for enhanced leverage for bends greater than 90° so you don't have to reposition the tubing in the bender
- Minimum Bend Mark to help you ensure that the tubing is fully bottomed into the fitting, greatly reducing any chance of leakage
- Roll Dies for reducing bending force and tube ovality
- Tube Latch to securely hold tubing in place during the bending process
- Multiple Angle Marks so mistakes are minimized when making bends of varying angles



For larger-diameter bends, we offer for purchase or rent:



Manual Benchtop Bender

- Lightweight, Portable
- Up to 180° Bending Range
- 1/4" to 1-1/4" OD
- Steel Shoe, Grease Gun, Tripod Included



Electric Standing Tube Bender

- Electronic Control
- 1° to 110° Bending Range
- 1" to 2" OD
- Bend Shoe Included

Of course, expertly employing the “right” tools requires that you have the proper training! Call 412.439.1706 today to schedule your Tube Bending hands-on learning event, your location or at our leading-edge Training Center in Pittsburgh:

Tube Bending Essentials



Learn how to assemble a tube fitting, select/handle/prepare/cut/deburr tubing, and make bends of 45°, 90°, 180°, plus offsets

Advanced Tube Bending



Learn how to master offset/rolling offset/complex/parallel/segmented bends, identify and avoid typical bend/tube defects, and employ conventional measure-mark-bend AND Swagelok precision tube-bending methods

Advancing Your FLUID-SYSTEM EDUCATION

Swagelok one-hour webinars are a cost-free, convenient, and trusted resource to improve your critical operational and maintenance management know-how. Delivered by our Scientists, Engineers, Market Managers, and/or Product-Line Managers, these events cover timely industry topics and offer you the opportunity to ask the hard questions regarding your most challenging Oil and Gas, Chemical, Refining, Power Generation, and other applications.

Your Swagelok lineup for June-August 2023:

- **June 1** — Myth Busting the H2 Economy
- **June 7** — Controlling Costs and Prioritizing Safety in Industrial Gas Systems
- **June 20 and August 3** — Busting Rust and New Corrosion Test Data
- **June 21** — Fluid System Components for H2 Applications
- **June 26 and August 6** — Selecting the Right Hose to Keep Workers Safe and Facilities Operational
- **July 3** — Overcoming Operating Hydrogen Challenges
- **July 3 and July 25** — The Key to Achieving Top Fluid System Performance
- **July 11** — Is Hydrogen the Energy Source of the Future
- **July 17 and August 8** — Emerging Opportunities for Safer Ammonia Sampling
- **July 20** — Master Fitting Selection/Installation/Inspection



**WATCH OUT FOR OUR FREQUENT WEBINAR EMAIL BLASTS
FOR SPECIFIC TIMES AND REGISTRATION INFORMATION!**

CONTACT US

412.761.3212 OR 412.439.1706
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