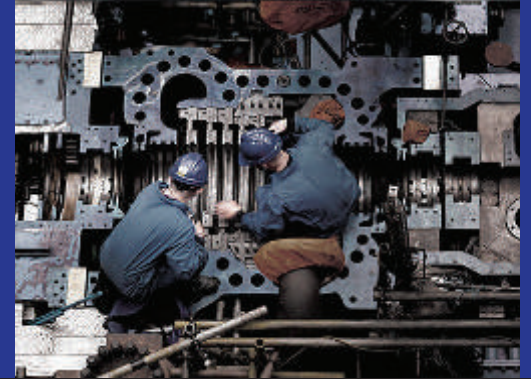


M.J. VIETNAM CO., LTD.

Authorized Swagelok Sales and Services Center



Swagelok®
VIETNAM



Engineered to perform under pressure

ABOUT SWAGELOK

Headquartered in Solon, Ohio, U.S.A, Swagelok Company is a global developer and provider of high-quality and reliable fluid system solutions including products, assemblies and services. For more than 65 years, the components we manufacture and the services we provide have remained integral to the success of our customers, and critical to the safety of those who work in high-risk environments and the environmental protection goals of their organizations. We take these responsibilities seriously and strive to provide value beyond the expected to our customers, associates, suppliers and communications every day.

MISSION

Apply our collective talents with understanding and passion to improve each day

VISION

Truly understand our customers' needs and act on them

STRATEGIES



ADAPT to a changing market place



INSPIRE tomorrow's workforce

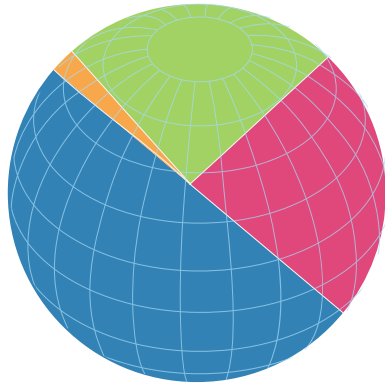


AMPLIFY operational excellence



ENRICH critical customer experiences

SALES BY GEOGRAPHY



49% North America & Central America

23% Europe, Middle East, & Africa

25% Asia

3% Latin America

EXPANDING
TO MAKE
THE WORLD
SMALLER.

GROWING NUMBERS. ONE SWAGELOK.

6 global tech centers

70 countries

3,600 sales and service center associates

20 manufacturing facilities

225 sales and services centers

5,400 corporate associates worldwide

50 application & field engineers

82 sales and service center principals

\$2 billion (USD) in annual revenues



SWAGELOK VIETNAM

Swagelok Vietnam, trading as M.J. Vietnam Co., Ltd, was established in 2013 as a leading solution provider of fluid system technologies. We are proud to be the only Swagelok authorized sales and service center servicing customers throughout Vietnam.

We provide the highest quality fluid system products, assemblies, and services that enable our customers to achieve their goals consistently and confidently, even in the most demanding and critical situations.

Our fluid system products and services run the range from tube fittings, valves, regulators and hoses to custom solutions and more. This wide range of solutions allows our customer the convenience of a one-stop shop for their fluid system needs.

In our business, nothing is insignificant. Every second, every conversation, every product, every decimal point matters. We are here to deliver the best products and solutions possible to help our customers succeed.



Engineered to perform under pressure

ONE SWAGELOK

To us, a “sales and service center” is not just a building with product inventory. It’s a local organization operated by local people who know the culture and speak the language.

Now our sales and service centers are more closely connected with Swagelok and with each other. Anywhere in the world, you can still get the same top-flight service from Swagelok. But if you design and specify in one location and your job site is another, sales and service centers in both locations will work with you as one team. We are one interconnected global organization – “One Swagelok.”

Our first representative office was established in 2004. After 10 years and a change in ownership, Swagelok Vietnam has become an independently owned and operated sales and service center in 2013.

milestones

2004

M.J. BANGKOK
VALVES &
FITTINGS
(REP OFFICE)

2008

VIET MY CO., LTD./
SWAGELOK
VIETNAM
(REP OFFICE)

2013

M.J. VIETNAM CO., LTD.
Authorized Swagelok
Sales and Service Center
(SWAGELOK VIETNAM)

2011

SWAGELOK VIETNAM
LIMITED LIABILITY
COMPANY

In Vietnam, our team of highly skilled and dedicated associates are here to help. If you need to speak to us please contact a member of the team at:

Ha Noi Office & Warehouse

Lot K3, Ngo Thi Nham Street, Ha Cau Ward
Ha Dong District, Ha Noi City, Vietnam
(84) 4 7107 6688 Office
(84) 8 3810 7728 Fax

Ho Chi Minh Head Office

8th Floor, Unit 8.9, e.town Building
364 Cong Hoa Street, Tan Binh District
Ho Chi Minh City, Vietnam
(84) 8 3810 7711 Office
(84) 8 3810 7728 Fax

Vung Tau Warehouse

35 Ton That Thuyet Street, Ward 9
Vung Tau City, Vietnam
(84) 64 359 7300 Office
(84) 64 3962 7147 Fax

sales@swagelok.com.vn
<http://vietnam.swagelok.com>



OUR MARKETS

No matter your industry, we have answers for your fluid system needs. That's because we know fluid systems. Whether your needs are simple or complex, we'll help you find the right Swagelok resources to satisfy them. From our product designers, field engineers, and regional technology centers, we can support your applications across a wide range of industries including those listed below:

- OIL AND GAS
- SEMICONDUCTOR
- ALTERNATIVE FUELS
- CHEMICAL/PETROCHEMICAL
- POWER/NUCLEAR
- ANALYTICAL INSTRUMENTATION
- AUTOMOTIVE
- FOOD, BEVERAGE AND DAIRY
- PROCESS INSTRUMENTATION
- PULP AND PAPER
- SHIPBUILDING



FOR PLANTS UNDER PRESSURE

A hose bursts, your line is down, and you lose gallons of your valuable product. Or you get an urgent order from your customer for a standard piece of equipment, but with a modification and you are in need of design support. These are the types of challenges - or emergencies - that Swagelok Vietnam is addressing every day for small, medium, and large plants in Vietnam. Our customers at these plants are providing essential services to the world's economy, yet they are up against new demands from their customers and reductions in their own maintenance staff and parts inventory.

With Swagelok Vietnam, you can find a partner that listens, understands, and believes in your cause.

MORE THAN PARTS - PARTNERSHIPS.



OUR

SEMINAR TRAINING



Swagelok is a leader in training engineers and installers in the proper use and installation of the Swagelok tube fittings. We know that correct tube fitting installation is essential for productive and safe system operation. Students receive hands-on training in the proper use, installation, and maintenance of Swagelok tube fittings. Participants will learn practices that will help minimize fluid system installation and maintenance costs. Our training seminars are listed as below:

- **TUBE FITTING INSTALLATION AND SAFETY SEMINAR**
- **THREAD IDENTIFICATION SEMINAR**
- **TUBE BENDING SEMINAR**
- **SAFE VALVE SELECTION SEMINAR**
- **REGULATOR SEMINAR**
- **MATERIAL AND CORROSION SEMINAR**

FITTINGS

VALVES

HOSES

REGULATORS

MEDIUM & HIGH PRESSURE PRODUCTS

PROCESS INSTRUMENTATION

QUICK-CONNECTS

MEASUREMENT DEVICES

TUBING & TOOLS

AN EVER-EVOLVING PORTFOLIO.

FILTERS

SAMPLE CYLINDERS

MPC MODULAR SYSTEMS

PRE-ENGINEERED SUBSYSTEMS

WELDING SYSTEMS

LEAK DETECTORS, LUBRICANTS & SEALANTS

SWAGELOK® CUSTOM SOLUTIONS
(ASSEMBLIES)

Swagelok products represent a “gold standard” for highly reliable, readily available products - all backed by extensive testing and validation, and the Swagelok Limited Lifetime Warranty. From our earliest days, starting with the first tube fittings, we have provided advanced, high-quality products that our customers know, trust and rely on.

Reliable supply chain and delivery of services

- More than 7,500 make-to-stock products and the ability to produce more than 300,000 end-item product variations
- More than 80 million total parts manufactured annually
- More than 6,800 line items ship daily
- Shipping and inventory accuracy are both 99.99%
- Swagelok Energy Advisors’ Steam & Condensate System Training covers more than 40 subjects related to plant efficiency, safety, reduced emissions and lower energy costs

TUBE FITTINGS



- Available in tube sizes 1/16 to 2 in. & 2 to 50mm
- Consistent gaugeability upon initial installation
- Easy to disconnect & re-tighten
- Wide variety of materials & configurations
- Manual & hydraulic swagers; gauges, wrenches

Patented Design: Excellent gas-tight sealing and tube-gripping action, easily achieved proper installation, consistent remakes, excellent vibration fatigue resistance and tube support, full compatibility with original Swagelok stainless steel tube fittings of identical sizes.

HIGH-PURITY FITTINGS



- Available in sizes 1/16 to 1 in. and 6 to 18 mm
- High-purity stainless steels and other materials
- Wide variety of configurations

Types: VCR® Face Seal, VCO® Face Seal, Micro Fit®, Weld

GENERAL INDUSTRY FITTINGS



- Available in sizes 1/16 to 2 in. & 2 to 50mm
 - Wide variety of materials & configurations
 - Pressures from vacuum to 60 000 psi (4134 bar)
 - Pipe fittings including NPT, ISO/BSP, & SAE threads
- Types:* Pipe, Weld, Vacuum, Flange, Medium-Pressure

WELDING SYSTEM



- Cost effective & reliable gas tungsten arc welds
- Lightweight, portable power supply
- Meets ASME-BPE welding standards

Types and Accessories: Traditional And High-Purity Power Supplies, Weld Heads, Fixture Blocks, Side Plates, Plenum, and Collets

INSTRUMENTATION VALVES



- Variety of end connections including integral Swagelok tube fittings
- Broad operating temperature range
- Large selection of sizes and materials
- Minimal dead volume & entrapment zones

Types: Ball, Needle, Check, Relief, Plug, Metering, Toggle, Manifold, Bleed and Purge

PROCESS VALVES & MANIFOLDS



- Integral tube fitting ball valves in sizes up to 2 in. & 50 mm
- Flanged process interface valves up to 2 in. (DN80)
- Large variety of special application valves

Types: Ball, Needle, Single Block, Single Block and Bleed, Double Block and Bleed, Manifold

PACKLESS VALVES



- High cycle, high integrity sealing
- High & low pressure models available
- All metal containment in metal valves
- Shutoff, bulk-gas distribution, & isolation service
- High-purity stainless steels & PFA materials

Types: Belkows-Sealed, Diaphragm-Sealed

REGULATORS



- Instrumentation-grade & ultrahigh-purity models
- Unique design features such as metal-to-metal seal to atmosphere
- Process regulators up to 4 in.
- Self-vent & captured-vent options
- Spring, dome, & air loading, pilot operated, high sensitivity

Types: Diaphragm Sensing, Piston Sensing, Pressure Reducing, Back Pressure, Vaporizing, Ultrahigh-Purity, Modular

HOSES & FLEXIBLE TUBINGS



- Standard & customized lengths/end connection combinations available
- Wide variety of types & materials
- Broad operating pressure & temperature range
- Available in sizes 1/8 to 2 in. & 3 to 50 mm

Types: Metal, PTFE, PFA, Vinyl, Nylon, Polyethylene, & Rubber Core Materials;

TUBING & TUBE SUPPORT



- Stainless steel tubing
- Sizes from 1/16 to 4 in. OD and 3 to 25 mm OD
- Standard instrumentation and ultra-high-purity tubing
- Tube support system for tube and hose sizes 1/4 to 1 in. and 6 to 25 mm

Types: Chemically Cleaned and Passivated Tubing, Ultrahigh-Purity Stainless Steel Tubing, Medium-Pressure Heavy-Walled Annealed Tubing

QUICK-CONNECTS



- Designed to minimize spillage & air inclusion
- Push-to-connect design enables quick, simple operation. No twisting, turning, or wrenching necessary
- Wide variety of configurations, end connections, & stem and body connectors

Types: Instrumentation, Single-End Shutoff, Double-End Shutoff, Full-Flow, Miniature, PTFE-Sealed

TOOLS & ACCESSORIES



- Tube benders & tube preparation tools
- Variety of cutting tools, and deburring tools
- Swaging units, gap inspection gauges
- Liquid leak detectors, thread lubricants, and sealants

Types: Electric, Bench-Top, and Hand Tube Benders, Hydraulic Swaging Units, Snoop® and Goop™ Products

MEASUREMENT DEVICES



- Vertical flow sensors
- Gauges
- Thermometers & thermowells
- Transducers
- Variable flowmeters

Gauge Types: Clean, Dry Air, Industrial, Process, Sanitary, Panel-Builder, Ultrahigh-Purity

Transducer Types: Industrial, Explosion-Proof, Intrinsically Safe, Ultrahigh-Purity

FILTERS



- Available for liquid and gas service
- Welded, inline, and tee-type configurations
- Wide variety of filter media available
- Membralox[®] ceramic filtering for high-purity applications

Types: Coalescing, Particulate, High-Purity

SAMPLE CYLINDERS



- Sizes from 150 to 3785 cm³ (1 gal)
- 304L, 316, 316L, and Alloy 400
- Working pressures up to 5000psig (344 bar)
- Variety of options including integral valves, outage tubes, colour-coding, & specialty coatings

Types: Sampling, Transportation-Complaint (DOT, TPED, Transport Canada, CCC), Single- and Double-Ended

PRE-ENGINEERED SUBSYSTEMS



- Predesigned & preassembled subsystems
- For use in all types of plants & facilities where fluids are being processed
- Used to create fully documented fluid sampling & control systems
- Bring consistency to your operations
- Easy to install & operate
- High quality

Outstanding performance essentials
that are made possible with...

HIGH QUALITY MATERIALS

chromium

316 / 316L
ASTM Ranges
16 to 18% Cr

Swagelok
Minimum 17%

Benefits:
Higher resistance to pitting corrosion

nickel

316 / 316L
ASTM Ranges
10 to 14% Ni

Swagelok
Minimum 12%

Benefits:
Better overall corrosion resistance
Better austenite stability to martensite transformation



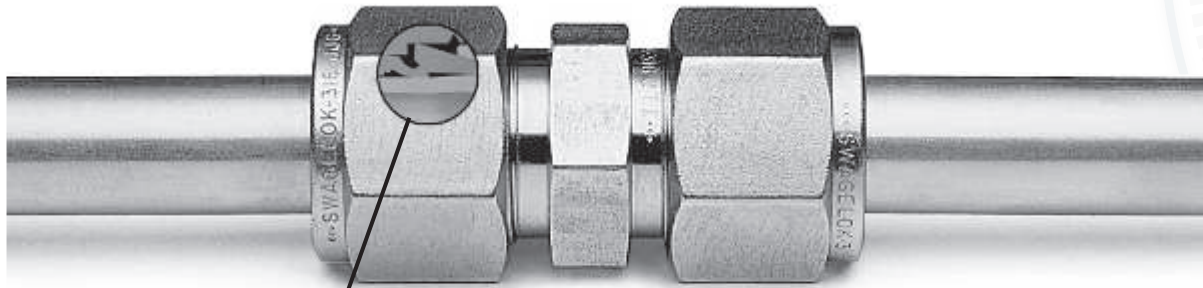
MANUFACTURING CONTROL

The Swagelok SAT12[®] process

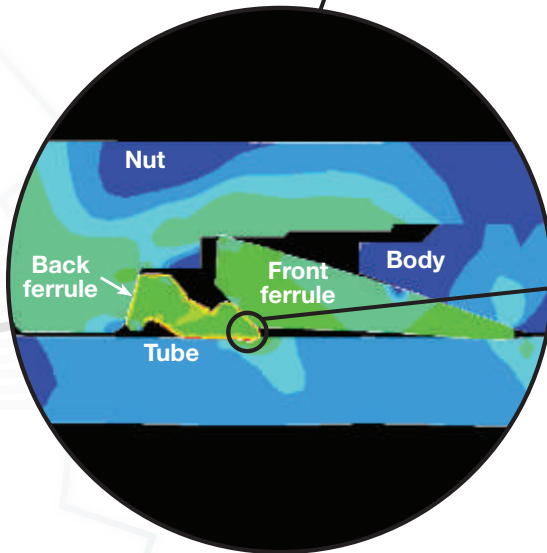
SAT12[®] is a patented low-temperature carburization process that interstitially case hardens stainless steel and nickel alloys while avoiding phase transformations, such as carbide formations, during the heat treating process.

SAT12[®] achieves a phenomenal tool steel-like hardness in a Swagelok tube fitting ferrule while retaining both corrosion resistance and, amazingly, material ductility.

THE SWAGELOK® TUBE FITTING ADVANTAGE



SAT12SM Patented Surface Hardening Process



Finite Element Analysis



- ⊗ Delivers extraordinary hardness
- ⊗ Retains ductility
- ⊗ Provides excellent corrosion resistance
- ⊗ Creates no dimensional change

UNIQUE DESIGN AND PRODUCT PERFORMANCE FEATURES



Figure 1: Samples during flame exposure.

FIRE (BURN) TEST

TEST METHOD

API Standard 607, fire test for soft-seated quarter turn valves, was adapted for tube fittings as follows, they were:

- Pressurized to a constant 4500 psig (310 bar)
- Exposed to flame (1400 to 1800°F, 1500°F average) [760 to 982°C, 815°C average] for a period of 40 minutes.
- Quenched with water for a period of five minutes.
- & Monitored for leakage and loss of water during the process.

TEST RESULTS

Ordering Number	Form	Tubing size in.	Samples Tested	Result
SS-810-6-4	Bar stock	¼ x 0.065	2	Pass- No Detectable Leakage
SS-810-9	Forging	½ x 0.083	8	Pass- No Detectable Leakage
SS-810-3	Forging			

ROTARY FLEXURE TEST

TEST METHOD

Rotary flexure testing procedures have been derived from SAE-ARP-1185.

This method applies a completely reversed bending stress on the fitting connection while pressurized with hydraulic oil at the tubing working pressure. The test samples were flexed until either the fitting leaked, the tube fractured, or at least 10 million cycles were achieved, whichever occurred first.

TEST RESULTS

No fitting leakage was detected throughout the test. The test was stopped when the tube fractured or the test sample exceeded 10 million cycles.

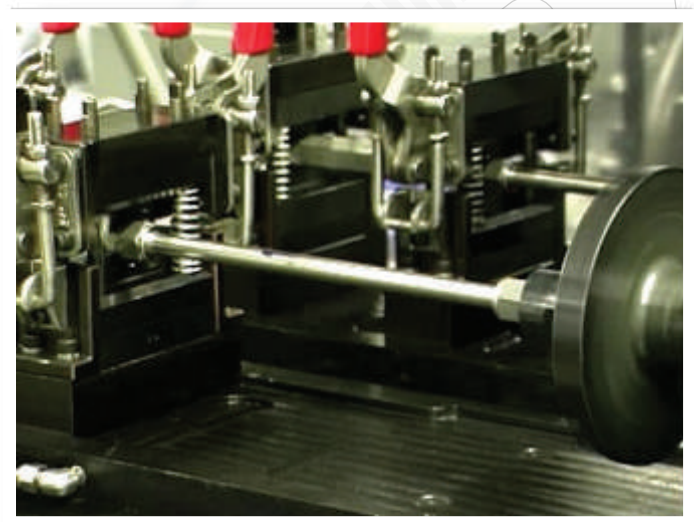


Figure 2: Samples during rotary test.

INTERMIX/ INTERCHANGE

SWAGELOK DISAPPROVES OF BOTH

INTERCHANGE

A tube fitting manufactured by one company that has been installed on a piece of tubing is then disassembled, and the tubing, nut and ferrules from that installed fitting is reassembled into the body of another manufacturer.

INTERMIX

Tube fitting components, which include the nuts, ferrules, and bodies, from two or more fitting manufacturers that are mixed together and then assembled to make a complete fitting.

Interchange is a special case of Intermix.

NO DESIGN STANDARD

No commercial design standard exists for fitting components, unlike certain automotive and pipe fittings for which commercial design standards exist. There are many different designs and design variations, in addition to the four shown here. Each manufacturer makes components to its own design standards.

NO VALIDATION TESTING

- **Tube fitting tests of Intermix / Interchange do not cover all the bases.** Often only short term burst tests or low pressure gas tests on small samples and limited configurations.
- **Tube fitting tests of Intermix / Interchange do not cover all the combinations.**

NO ACCOUNTABILITY

- Intermixed / Interchanged tube fittings are essentially **new designs, which are invalidated.**
- **Intermixing / Interchanging tube fitting components...**
*can cause unpredictable performance
may increase cost
can be dangerous in critical applications.*

Swagelok® Custom Solutions refers to our expert capability to supply assemblies and fabrications utilizing Swagelok products and other customer specified components.

- Swagelok® Custom Solutions can create from simple to more complex assemblies.
- We can also build assemblies including third-party components. You specify the components, and we source and integrate them for you.
- No job is too small with us.
- We build assemblies locally to guarantee short lead time.
- We are able to tailor our products to give your company exactly what it needs.
- All assemblies are performed by Swagelok certified technicians, and backed by our limited lifetime warranty.

Swagelok® Custom Solutions will help you reduce:

- **Waste** - Only those products necessary to do the job will contribute to your cost.
- **Rework** - You only accept and pay for assemblies that meet your specifications.
- **Cost** - As a distributor for Swagelok, we avoid the mark up or administrative costs involved in procuring Swagelok products.
- **Paperwork** - You only place one purchase order rather than several.
- **Stress** - You can be sure that the assembly will be ready when you need it, and it will be exactly as you expect.



SWAGELOK® QUALITY SYSTEM

Swagelok® Quality System (SQS)

- Compatible with ISO 9001-2000.
- Ensures any product or service you receive is consistent, high-level quality.

**NOW ASSEMBLING PRODUCTS YOUR WAY.
BETTER FOR YOU AND BETTER FOR YOUR BUSINESS.
WE ARE HERE TO HELP.**

Examples of our capabilities include:

- General industrial sub-assemblies consisting of valves, fittings, gauges, transducers and other fluid system components
- High-purity sub-assemblies and weldments, with industry standard cleaning and testing certifications
- Gas and liquid distribution or sampling manifolds as well as instrument panels and enclosures
- Full fluid system panel capability including drawings, assembly and customer acceptance
- Customization of standard products to meet unique system requirements
- Modular systems
- Pre-fabricated off-site bespoke assemblies
- Hose assembly
- CAD drawings and templates



THE SWAGELOK LIMITED LIFETIME WARRANTY

Swagelok and its authorized distributors hereby warrant to the purchaser of their Products that the non-electrical components shall be free from defects in material and workmanship for the life of the Products. All electrical components installed in or on the Product are warranted to be free from defects in material and workmanship for twelve months from the date of purchase.

The purchaser's remedies shall be limited to replacement and, in non-ground-vehicle applications, installation of any parts that fail through a defect in material or workmanship. Liability for installation is limited to reasonable costs that have been approved in advance and in writing by Swagelok. All customer-specified components carry the applicable manufacturer's warranty.

Warranty coverage hereunder only applies to Products purchased directly from either Swagelok or its authorized distributors and representatives. All other purchases are specifically excluded from any warranty coverage.

ALL OTHER REPRESENTATIONS, EXPRESS OR IMPLIED, WARRANTY, OR LIABILITY RELATING TO THE CONDITION OR USE OF THE PRODUCT ARE SPECIFICALLY DISAVOWED, AND IN NO EVENT SHALL SWAGELOK AND ITS AUTHORIZED DISTRIBUTORS BE LIABLE TO PURCHASER, OR ANY THIRD PARTY, FOR ANY DIRECT OR INDIRECT CONSEQUENTIAL OR INCIDENTAL DAMAGES.





Global System/Product Approvals and Certifications

ISO 9001 Quality System | ISO 14001 Environmental Management System | Vd TÜV, ASME N and NPT Certificates | European Pressure Equipment Directive (PED) | METI/KHK | Det Norske Veritas (DNV) | Nippon Kaiji Kyokai (NK) | American Bureau of Shipping (ABS) | Lloyd's Register (LR) | United States Department of the Navy | ECE R110 and NGV 3.1/4.6 | 3A Certifications | Canadian Registration Numbers (CRNs) | Chinese Compulsory Certificates (CCC) | European Transportable Pressure Equipment Directives (TPED) | Transport Canada (TC) | U.S. Department of Transportation (DOT) | GOST R and RTN

Are you the only distributor of Swagelok in Vietnam?

Yes, we are. We are proud to be the only Swagelok authorized sales and service center in Vietnam.

If you receive any other companies claim to be Swagelok distributor in Vietnam. Please help report to us at sales@swagelok.com.vn or contact this number: +84 8 3810 7711.

What is your company name?

We use Swagelok Vietnam as our promotional name to show our shared commitment with Swagelok while also showing us to unify our organization. Our commercial (legal) name is M.J. Vietnam Co., Ltd. will be used on documents governing commercial activities, such as purchase orders, contracts, invoices, etc., as our primary company reference.

What kind of warranty can I expect with Swagelok products?

Swagelok® products are backed by the Swagelok Limited Lifetime Warranty. And Warranty coverage only applies to Products purchased directly from either Swagelok or its authorized distributors and representatives. All other purchases are specifically excluded from any warranty coverage.

What certifications do you offer?

We offer a variety of certifications on our products such as:

- Certificate of Original issued by USA Chamber of Commerce or Manufacturer for non-tubing items
- Inspection Certificate issued by Manufacturer for non-tubing item (except Tools & Accessories) -Electronically
- Certificate of Compliance issued by Manufacturer for non-tubing item-Electronically
- Certificate of Quantity and Quality issued by the supplier
- Certificate of Warranty issued by the supplier
- Mill certificate issued by the Manufacturer for tubing items- Electronically
- And more

Does Swagelok Vietnam have local inventory?

We have 02 warehouses in Ha Noi and Vung Tau. Our local inventory is ready to ship in high volume, especially for tubing.

To serve our customers better, we also have tailored programs such as price agreements, consignment, strategic inventory, etc..

If you need more information, please feel free to send email to: sales@swagelok.com.vn or call +84 8 3810 7711.

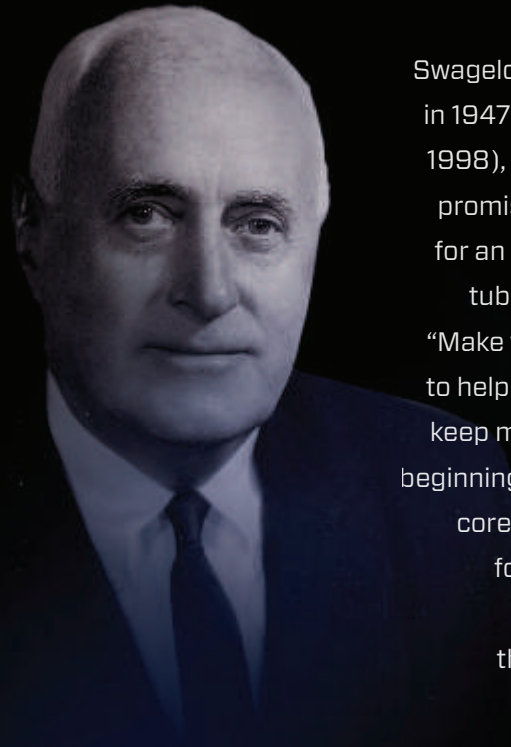
Value of Our Values

How we work is as important as what we do. Our corporate values guide our actions and decision each day - from recruiting top talent to developing innovative new products and services to giving back to the communities in which we live and work.



THE MAN BEHIND THE MISSION.

Swagelok Company was founded in 1947 by Fred A. Lennon (1905-1998), with a \$500 loan and the promise of a colleague's design for an easy-to-install, leak-tight tube fitting. His mantra was, "Make the best product possible to help customers succeed, and keep making it better." From the beginning, our founder insisted on core values - Quality, Respect for the Individual, Integrity, and Customer Focus and these live on with us today.





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