

Delivering Difference-Making Solutions:

*“Initially, I was a bit skeptical when Swagelok Pittsburgh | Tri-State Area approached me about a no-cost Hose Advisory. Though I believed we’d receive some value from such an audit, I also saw it as a way for them to simply sell us more hoses. Once we began the actual walk-through – and I heard the probing questions the Advisors asked, I knew we had agreed to something that would truly boost our site’s productivity and efficiency.*

*We then received our highly detailed Swagelok Hose Management Report, which specifically addressed our numerous hose-kinking issues – and how those were causing the exceptionally loud pump noise in our Reactor Room. Even better, the report also gave us easy-to-follow recommendations and instructions on how to actually fix our hose problems.*

*Result: Noise levels dramatically reduced! In addition, my boss used the findings as a first step toward making hose maintenance a priority here. We learned SO much about how to select the ideal hose for a particular application...and how to relieve hose stress in general. In fact, we’re now applying these Swagelok lessons to solve noise concerns throughout similar areas within our facility.*

*On a related note, our subsequent Swagelok hose order arrived expertly packaged – with each hose separately bagged and clearly labeled to coincide with the findings in our Swagelok Advisory report. We were thus able to quickly and accurately replace our troublesome hoses. Thanks, Swagelok, for your top-quality products AND always-outstanding support services!”*

Chemical Lab Technician



Swagelok Pittsburgh | Tri-State Area

During Your **Swagelok Hose Advisory**, we closely and specifically look for, evaluate, and report:

- Broken Wires
- Abrasion
- Corrosion
- Ovality
- Stiffness/Hardness
- Color Changes
- Cover Blisters
- Kinks/Flat Spots
- Leakage
- Improper Sizing
- Damaged Reinforcements
- Correct Type for Application
- Operating Conditions: Pressure, Temperature, Flow...
- Environmental Factors: Temperature, Humidity...
- Motion
- Cleaning and Storage Practices
- ....and so much more!

Let your local Swagelok Pittsburgh | Tri-State Area  
Hose Pros save you considerable  
**Fluid-System time, money, and worry!**

For your **Swagelok Hose Advisory**, contact:

P: 412.761.3212

 [pittsburgh.swagelok.com](http://pittsburgh.swagelok.com)

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MAPPING YOUR  
**HOSE  
OPTIMIZATION**

Your Local  
**Swagelok Hose Pros Deliver:**

- Extensive Hose and Hose Accessories Selection
- Expert Hose Consultative Services
- Exceptional Hose Technical Training

*...to dramatically boost  
your Industrial Hose Safety,  
Productivity, and Profitability!*

Meet Your  
**Swagelok Hose Advisors**



**Gary Osman**, Applications  
Engineer and **certified  
Swagelok Hose Advisor**



**Mike Gagel**, Technical  
Trainer and **certified  
Swagelok Hose Advisor**



With their combined 30+ years of Swagelok fluid-system expertise, Gary and Mike will help you save major hose-related time, money, and worry. They’ll walk the floor with you to thoroughly analyze your current hose applications, including critical cleaning and storage activities. They’ll next issue you a Swagelok Hose Management & Efficiency Report loaded with our expert recommendations on how you can rapidly improve and sustain your overall hose safety and health. Our Advisors will also help you set up a routine hose-maintenance schedule – enabling you to avoid lengthy downtime, excess waste, and high repair/replace costs.

**Why Flexible Hose?**

- Fewer connections mean a safer fluid system and far less leakage. Period.
- Greatly reduced chance of system pressure drop and media entrapment.
- Lower overall repair/replace material and labor costs.
- Ease of cleaning.
- Compensation for slight dimensional mismatches between connections.



# 3 SIMPLE STEPS

## TO DETERMINE THE OPTIMUM SWAGELOK HOSE FOR YOUR SPECIFIC APPLICATION

### Step 1

APPLY OUR PROVEN **STAMPED** METHODOLOGY TO ADDRESS ALL KEY HOSE-SELECTION CRITERIA

**S SIZE:** ...the required ID, DD, and length?

**T TEMPERATURE:** ...of the material conveyed and the operating environment?

**A APPLICATION:** ...the conditions of use/routing – where and how; what's bend radius?

**M MEDIA:** ...the type and concentration of conveyed material; conductivity?

**P PRESSURE:** ...working; surge, and/or vacuum?

**E ENDS:** ...connection type, style, orientation, attachment method? Tube adapter?

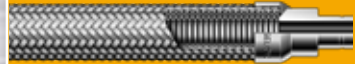
**D DELIVERY:** ...quantity required, testing, quality, packaging, when needed?



#### 4 PREMIUM-QUALITY HOSE CORE TYPES

##### All-Metal

*For High-Temperature, Medium-Pressure, Vacuum, Corrosive, or General-Purpose applications.*



*FX-Series style shown*

##### Fluoropolymer

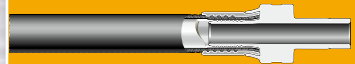
*For Inert and Flexible applications.*



*T Series PTFE style shown*

##### Thermoplastic

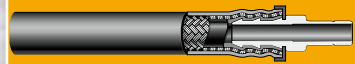
*For High-Pressure, Low-Temperature applications.*



*7P Series style shown*

##### Rubber

*For Flexible applications.*



*PB Series style shown*

#### 11 END CONNECTIONS

Tube Stub	Lap Joint Flange
Tube Fittings	ISO/BSP
VCR/VCO	KF
Tube Butt Weld	SAE 37 JICo (Male and Female)
Kwik Clamps	NPT (Male and Female)
Cam and Groove	

### Step 2

CHOOSE FROM 6 COVER OPTIONS

##### Fire Jacket:

Provides insulation from internal system temperature extremes.

##### Thermosleeve:

Protects from weld spatter and resists UV light effects.

##### Armor Guard:

Protects against kinking and abrasion; highly flexible.

##### Spring Guard:

Protects against kinking and abrasion; highly flexible.

##### Spiral Guard:

Protects against abrasion; highly flexible.

##### Thermal Wrap:

Delivers superior insulation.



### Step 3

CHOOSE FROM 4 TAGGING OPTIONS



##### Lanyard

Attaches with a stainless steel lanyard and aluminum clamp.



##### Clamp

Attaches with two metal bands.



##### Mat

Attaches via an adhesive.



##### Perma

Attaches via an adhesive.

*In addition to our  
**extensive**  
Standard Testing procedures...*

- Static Bend Radius
- Dynamic Bend Radius
- Permeation
- Vacuum
- Hot/Cold Elevated Temperature Burst

...we also offer **Helium Leak Testing**,  
**Hydrostatic Testing**, and **Nitrogen Pressure Testing**.  
All tests include complete certifications.

## Swagelok Hose Essentials Technical Training



- Graduate with a complete understanding of critical Hose terminology, selection variables, and industry-best inspection and preventative maintenance processes.
- Learn exactly why/when/how Hose should be used and how to achieve maximum service life.
- Determine how to optimally apply our STAMPED acronym to your everyday Hose employment.
- Half-day; available at your location or at our Pittsburgh Training Center.

*"We learned how to correctly install hoses – that is, what to look for and avoid. Our daily work involves very dangerous media. The Swagelok Hose Essentials class has proven to be extremely helpful in keeping us safe – and more profitable. Even after almost 30 years in the business, I took away plenty of new and better ways to do my job."*

*Chemical Industry  
Hose Course Graduate*

