

Your Local **Swagelok** Resource for Optimum Marcellus and Utica Productivity and Profitability**MAXIMIZING**
Worker and Site Safety**MINIMIZING**
Fugitive Emissions**MASTERING**
Application Challenges

Presenting Your Local Swagelok® Hose Pros

(part 1)

*We don't just supply the fluid-system industry's
premium-quality industrial Hoses, we:*

1

PROVIDE

**a proven methodology for selecting the
ideal Hose for your application.**

S

= Size

What's the necessary OD, ID, and length of Hose for your application?

T

= Temperature

Similar considerations for the material being conveyed and the overall operating environment.

A

= Application

What are the conditions of use? How and where will hoses be routed? What's bend radius?

M

= Media

What's the type and concentration of the conveyed material? What's its conductivity?

P

= Pressure

What's your working pressure?
Is there surge and/or vacuum to consider?

E

= End Connection

11 different options, including Tube Stubs, Tube Fittings, VCR/VCO, Kwik Clamps, Tube Butt Welds, and more. Think about your attachment method and orientation as well.

D

= Delivery

As with valves, when/how many hoses.....but also:
Any special testing or packaging required?

2

DELIVER

**trusted and expert advice on how to realize
maximum Hose service life.**

Maximum Hose Life

Here are 11 helpful Swagelok installation, usage, and maintenance tips to ensure a substantially extended hose performance, even in the most extreme operating conditions:

1. **Set up and rigidly adhere to an Inspection Schedule based on system application and replacement history.**
2. **To guard against dangerous static electricity, choose a hose with sufficient conductivity to ground such a charge.**
3. **Consider your overall system vibration level. (Metal hose not ideal when severe, for example.)**
4. **When determining hose length, think about movement, system pressurization, and thermal expansion.**
5. **Follow minimum bend radius. (If you go too small, you may kink hose; if you bend too close to a connection, rupture could result.)**
6. **Relieve hose strain by installing elbows and adapters.**
7. **Provide sufficient hose length to distribute movement and to avoid bends smaller than minimum radius.**
8. **Allow for length changes due to machine motion/tolerances.**
9. **Make sure the hose is long enough to accommodate changes in system pressures.**
10. **Do not connect high-pressure or low-pressure hoses.**
11. **To eliminate hose twists, bend in one plane only.**

Trusted Industrial Hose Storage Tips

Always store hoses in clean, dry conditions.



Always store hoses in original, unopened factory packaging.



Protect hoses from UV light/sunlight.



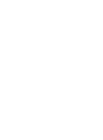
Cap hoses to prevent cross-contamination.



Make sure hoses are hung to maintain shape.



Make sure hoses are hung in a manner to prevent kinking.



Use a curved rack to prevent a hose from bending past its minimum bend radius.



Never drape a hose from a hook or bar.



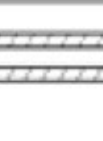
Never stack hoses on top of one another on a rack.



Hang a hose vertically from its end connection (weight permitting).



Never store hoses on the ground.

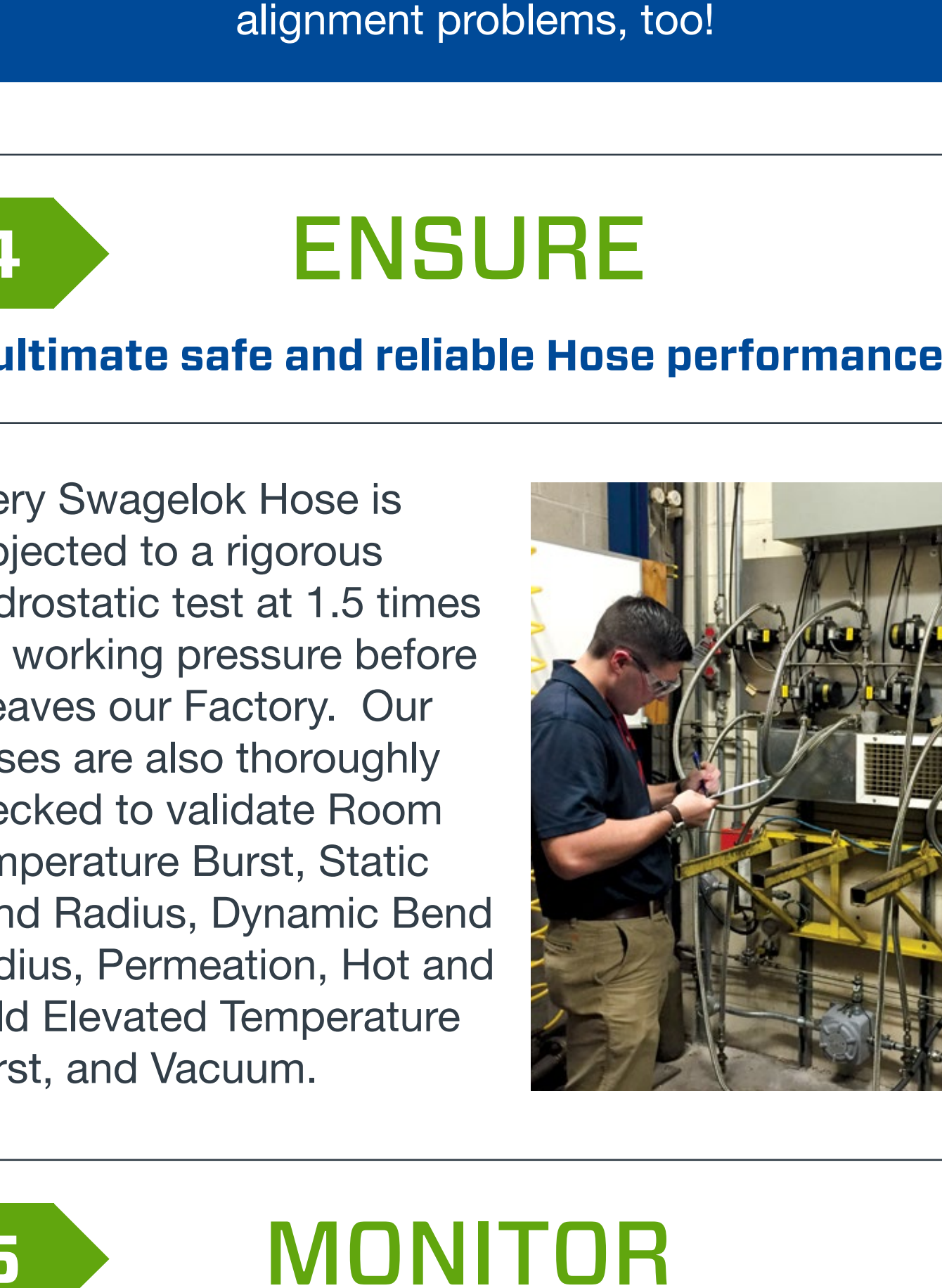


Never hang hoses from any rack/furniture with sharp edges.



3

OFFER

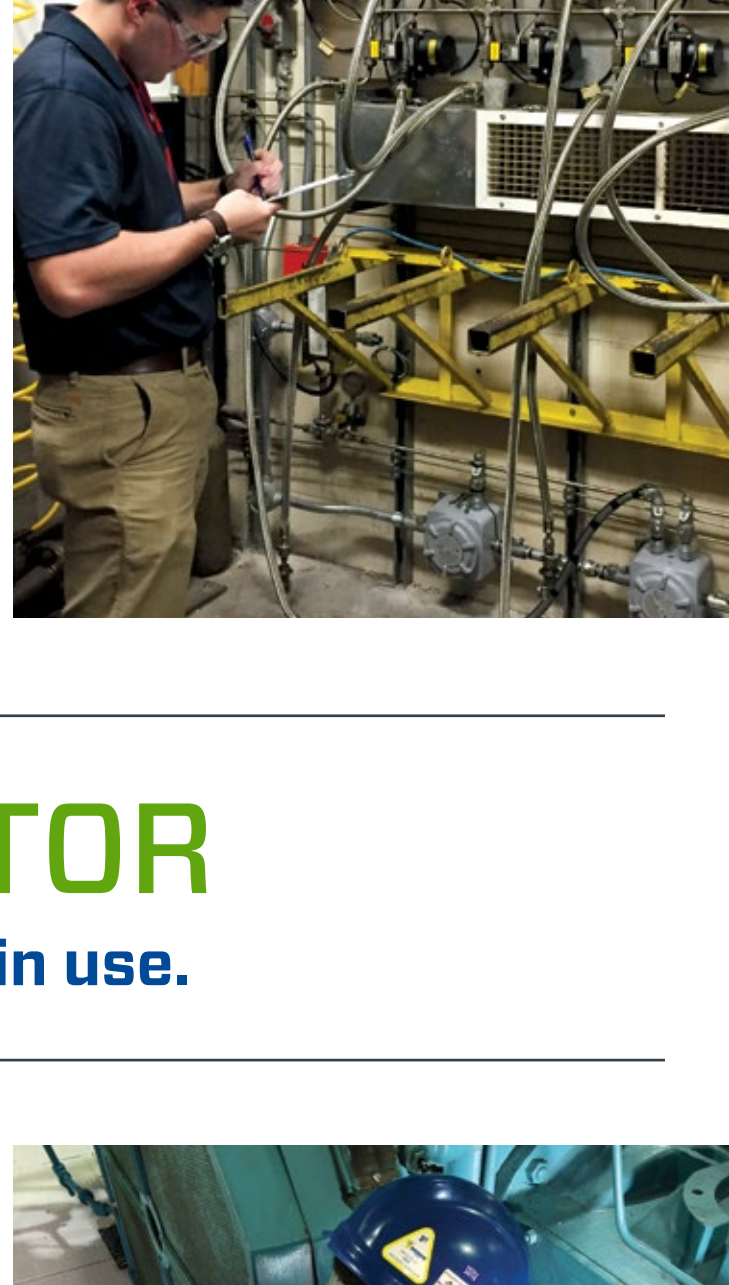
**an innovative means to reduce overall
Hose and End Connection.****Bonus Hose Efficiency Tip:** By stocking a few Swagelok Tube Stub Adapters and some union tees and elbows, you can easily switch out end connections to adapt the same hose for multiple applications. Our adapters eliminate difficult alignment problems, too!

4

ENSURE

ultimate safe and reliable Hose performance.

Every Swagelok Hose is subjected to a rigorous Hydrostatic test at 1.5 times the working pressure before it leaves our Factory. Our Hoses are also thoroughly checked to validate Room Temperature Burst, Static Bend Radius, Dynamic Bend Radius, Permeation, Hot and Cold Elevated Temperature Burst, and Vacuum.

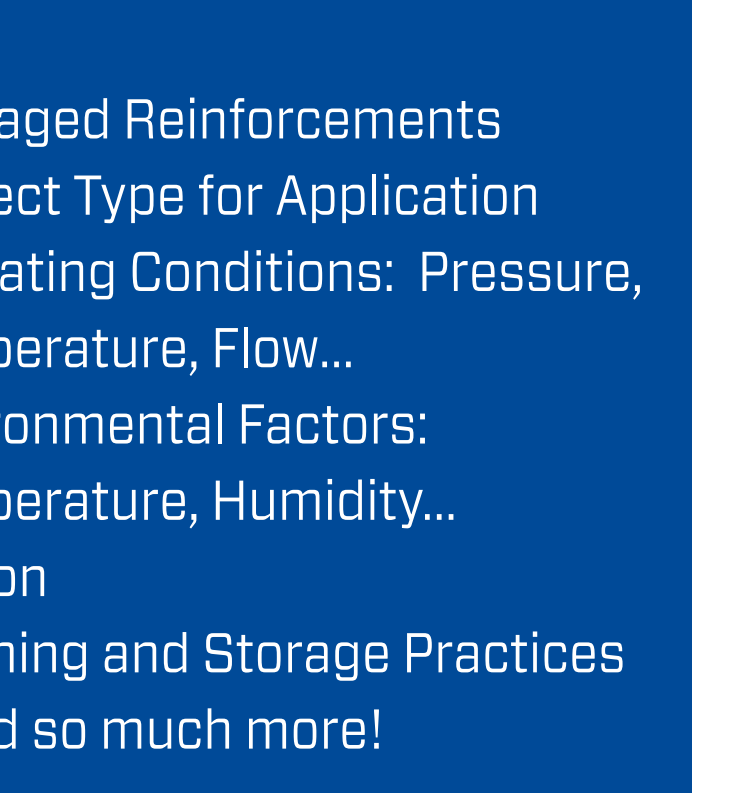


5

MONITOR

our Hoses in use.

Our certified Swagelok Hose Advisors, Gary Osman – Swagelok Field Engineer, and Mike Gagel, also our Strategic Support Services Specialist, will come to your project site or facility to conduct a half-day audit of your current Hose-related activities.

**During their survey, Gary and Mike
will look for, evaluate, and report:**

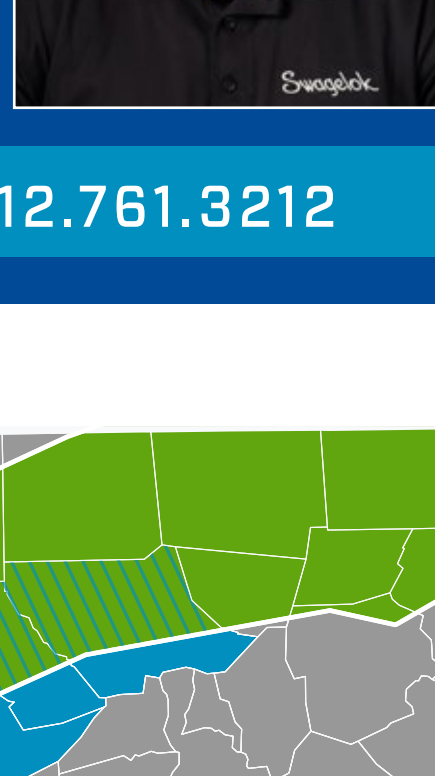
- Broken Wires
- Abrasion
- Corrosion
- Ovality
- Stiffness/Hardness
- Color Changes
- Cover Blisters
- Kinks/Flat Spots
- Leakage
- Improper Sizing
- Damaged Reinforcements
- Correct Type for Application
- Operating Conditions: Pressure, Temperature, Flow...
- Environmental Factors: Temperature, Humidity...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

**In our next issue, we'll discuss
Hose types, covers, and tagging.**

We know Hose. To help optimize your fluid-system safety, productivity, and profitability, contact:

Gary Osman

Swagelok Field Engineer



gary.osman@swagelok.com

412.761.3212

Swagelok Pittsburgh | Tri-State Area

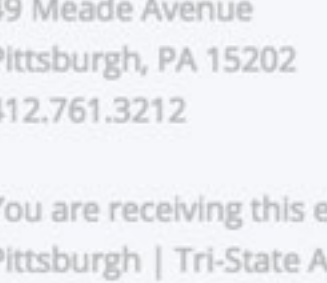
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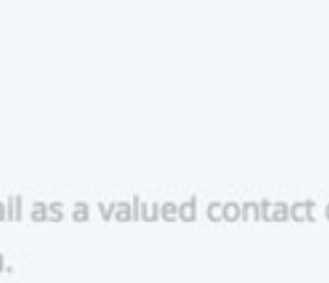
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Our Promise:

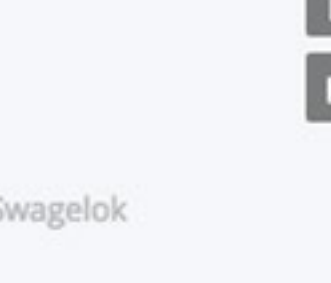
In each and every customer engagement and interaction, no matter how challenging your application or operating conditions, we will deliver premier-quality Swagelok Fluid-System Product Solutions and value-added Strategic Services that will positively impact your Bottom Line.

**WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER**

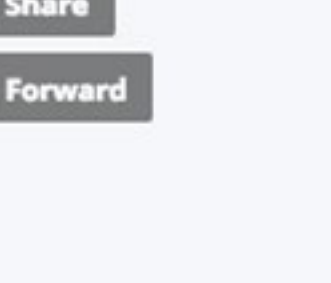
Industry-Best Componentry



Masterful Custom Fabrication



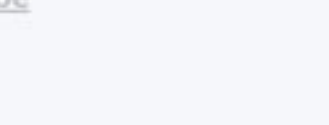
Expert Technical Training



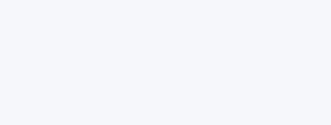
Extensive Energy Evaluations



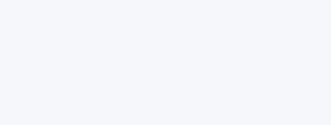
Unparalleled Application Knowledge



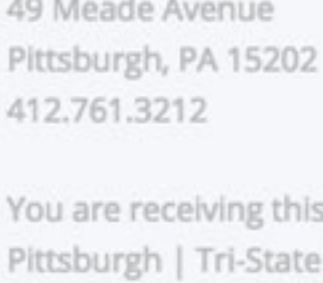
Comprehensive Hose Advisories



Proven Inventory Management Support



Genuine Swagelok Tool Rentals

**WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:**

Swagelok Pittsburgh | Tri-State Area

49 Meade Avenue

Pittsburgh, PA 15202

412.761.3212

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