



## Swagelok Alabama | Central & South Florida | West Tennessee Tire Manufacturing Capabilities

### Pull the Plug on Costly Leaks.

Leaks of all types are common in tire manufacturing. Swagelok associates can help identify and stop them, keeping your operations safe, productive, and profitable.

#### Steam and Condensate Leakage

The leading cause of leaks in a steam and condensate system is the use of threaded pipe connections; however, welded connections also have shortcomings.

#### Consider:

A single small thread leak in a steam/condensate line can **cost up to \$3,958 per year.**



In a plant with **200 curing machines**, where each machine has just **four leaks**, this equates to **\$3.1 million annually.**<sup>1</sup>

#### Solution:

Swagelok tube fittings provide many advantages over threaded pipe/welded connections due to robust construction, extensive testing, and easy workability.

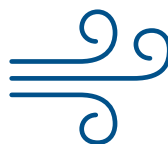
#### Compressed Air Leaks

Compressed air systems are found in nearly every industrial facility, and nearly all have leaks. If you notice that compressors are running longer without any other changes being made to the system, it's a good bet the system has developed leaks.

#### Consider:

A recent survey of compressed air systems covering just one-sixth of a tire plant revealed **181 leaks.**

At \$468 per leak, this adds up to **\$84,708 in losses per year**, or **\$508,248 across the entire plant.**



#### Solution:

A leak survey from Swagelok can help you reconsider what compressed air leakage is doing to your bottom line. It's often more harmful than you think—leakage can eat away **20 to 30%** of a typical compressor's **output efficiency.**<sup>2</sup>

#### Hydraulic Oil Leaks

The costs associated with hydraulic oil leaks include:

- Makeup Fluid
- Cleanup
- Disposal
- Contaminant Ingress
- Safety

#### Consider:



Oil leaks can add up to **\$2,500 per year per curing machine.**

In a tire plant with **200 machines**, the cumulative cost is more than **\$500,000.**<sup>3</sup>

#### Solution:

Swagelok products are rigorously tested to stringent standards for quality and performance, meaning you can be confident these components deliver high value and low total cost of ownership.

1. Source: Kelly Paffel, Inveno Engineering LLC

2. Source: Office of Industrial Technologies, Department of Energy, Compressed Air Tip Sheet #3, December 2000

3. Source: The Real Cost of Fluid Power Leaks



## Stronger Specifications for Stronger Performance



**Tube and Fittings:** Leak prevention is our legacy—we've been the recognized leader in tube fitting reliability since 1947.

**Valves:** Our special flexing seat design ensures a leak-tight seal in high-pressure systems.

**Hose:** Many hoses need to be replaced often—about every 12 months or so. A higher-quality hose can last four years or longer.

## Paths to Plant Optimization

Stronger components are just part of a healthy fluid system. As a complete solutions provider, Swagelok is engineered to take the pressure off of you.

### Leverage Our Custom Solutions Capabilities

Need to bring an idea to life? Our [Custom Solutions](#) capabilities can follow your design, or, with a Swagelok tech center, can create an entirely new design, all backed by our Limited Lifetime Warranty.

### Avoid Costly Waste and Rework

We'll detail the subsystem specifications, budget, performance needs, and timetable, providing a proposal and 3D CAD model. Then we'll optimize it, assemble it, test it, certify it, and warranty it—delivering exactly what you need, with no prototyping, time crunch, or headache.

### Let Our Services Come to You

[Swagelok Evaluation and Advisory Services](#) put experienced industry pros in your plant with one goal: improving the reliability and safety of the operation. From a thorough steam system audit to compressed gas leak detection to [a close look at the hoses](#) that keep things flowing smoothly, you can trust us to engineer stronger solutions every day.

### Get the Training You Need

We offer among the most comprehensive [steam and fluid system training](#) available, with a special focus on keeping you alert to hidden dangers. From on-site learning to off-site classes that accommodate busy schedules, we make it easy to go through our in-depth education programs led by qualified instructors. That's why many of the world's largest industrial operators choose Swagelok to help their associates work safer.



### Get Started Today.

Learn more about how we can take the pressure off of your tire manufacturing business by **contacting your local sales and service center:**

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[alfl.swagelok.com](http://alfl.swagelok.com) | [info@alfl.swagelok.com](mailto:info@alfl.swagelok.com) | 205.988.4812