

# Swagelok

Swagelok Indonesia



## SWAGELOK® ONSITE

FLUID SYSTEM EVALUATION & ADVISORY SERVICES





## Swagelok® Onsite Services: Expertise Delivered to Your Facility

As the sole distributor of Swagelok in Indonesia, PT NusaFluid Solusi Utama delivers dependable fluid system solutions through our local certified experts. With deep technical and application expertise, we work closely with your team to help ensure your systems operate safely, efficiently, and reliably.

Supporting a wide range of industries, we specialize in tailored Onsite Services that include consultation on fluid system design, installation, operation, and maintenance. Whether you are facing critical challenges or aiming for long-term optimization, our local certified experts will help you:

- Identify and mitigate risk factors
- Enhance operational efficiency
- Reduce costs and labor time
- Improve safety, quality, and environmental performance

Partner with us to unlock the full potential of your fluid systems—wherever you operate.



## Swagelok® Fluid System Evaluation & Advisory Services

Cost, safety and efficiency are the primary concerns of companies. There is a continuous search for solutions to deliver sustainable improvement in safety and asset performance while minimizing cost of operations. With our expertise in fluid systems and our drive to provide value-added solutions to our customers, we have designed a service to address these concerns.

Onsite Service is a service tailored to assure safe, cost effective and efficient maintenance of your fluid systems. We will help check for leakage through fitting and valve reliability inspection and tubing practices assessment. We can even help you during hook up and tie-in where we can assess installations by introducing best practice philosophy from the outset.

Our aim is to strengthen fluid system performance and efficiency by reporting in detail the condition of Swagelok and non-Swagelok products along with suggestions which range from an urgent need for replacements to improvements for planned maintenance. Our team of qualified professionals will assist customers with their associated cost.

### Benefits of Onsite Services

- Reduced operational cost and unexpected downtime
- Increased asset integrity
- Analysis of site inspection results
- Strategic planning of maintenance activities
- Boost system productivity
- Mitigate environmental risk and reduce emissions
- Increase sampling reliability







## Swagelok® Fluid System and Advisory Service - Overview

### Improve Performance and Safety. Reduce Costs and Labor Time.

Let us help you solve your biggest fluid system challenges—quickly and efficiently. Our Fluid System Evaluation and Advisory Services brings our technical expertise, application experience, and industry knowledge onsite to help optimize your safety, productivity, and profitability of your fluid systems.

#### Our fluid system experts will evaluate:

- Specific components such as fittings, tubing, hoses, valves, and gauges for best practices to ensure fluid system operation
- Compressed gas systems for opportunities to reduce leaks
- Overall fluid system health for maximum uptime

#### You receive a comprehensive report created to identify key issues and recommend solutions, including:

- Costs of existing, unrepaired leaks
- Concerns categorized by severity
- Photos to clearly identify locations of problems
- Steps that can be taken to remedy them

Fluid System Evaluation and Advisory Service			
Customer Name: Site Name			
Appendix C - Issues by Issue Tag ID			
Issue Tag ID: 0001		Category: 2	
Plant Area	Air Supply	Part Material	Stainless Steel
Customer Tag ID	PH120C	Connection Type	
Location	North Side of Plant	Connection Size	1/2 in
GPS Location			
Part Description	G-100 PSIG Pressure Gauge		
Process Fluid	Air	Type of Part	Measurement Device
Pressure	100 (psig)	Manufacturer	Unknown
Temperature	70 F	Part Number	
Issue	Incorrect Part: Equiv. Swagelok Part: PG-63C PG-100 LAGS		
Description	Gauge is being used near max range which may cause damage and over pressurization.		
Other Findings			
Possible Solution	Replace component(s) according to manufacturer's instructions		
Unsound ID	100	100	
Unsound ID			
			
<p><b>IMPORTANT:</b> Always depressure the system before working on, disassembling or assembling a fluid system. Safe Product Selection: When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.</p> <p><b>NOTE:</b> Where the Part Number is followed by "E" it should be confirmed before placing an order.</p>			
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# Swagelok® Fluid System and Advisory Service - Process

## Minimize Operating Cost, Enhance Safety and Improve the Integrity of your Fluid Systems

### Scope of Services

- Integrity assessment on fluid systems (e.g. air and steam leakages identification)
- Correct material/component selection based on system requirements
- System and application improvement
- Site Supervision to ensure onsite activities adhere to Swagelok Installation procedure
- Support for an installer training program and optimize installation best practices during hook up and tie-in, followed by a post build system assessment
- Swagelok Training & Consultation

### Consultation

Our team begins every engagement with a thorough understanding of your business needs and system improvement goals to ensure that maximum benefit is derived.

### Analysis

The Onsite Services team will conduct site inspection which enables the collection of field data:

- Conducting an inspection of tubing systems for defects
- Visually inspecting all external surfaces of the system for corrosion and/or damage
- Identifying and documenting any issues found

This leads to a comprehensive report of product conditions and detailed suggestions for your preventive maintenance plans.

### Improvement Plan

Through Onsite Services, you acquire comprehensive reports to help you manage your Services reports indicate the condition of installations which provides an assessment of the skills and competency of your installers.

### Onsite Inspection Application

The Onsite Inspection Application is used during this process. This intrinsic safe tablet (IEC 60079-11 and UL 913 standard) based application provides digital data collection, with fast and efficient reporting. We will take a closer look at your systems, and provide you with knowledge and advice to get you where you need to be.



# Gain the Support You Need Where You Need It

Swagelok® Onsite Services bring our technical expertise, application experience, and industry knowledge to you. Our local certified experts visit your facility, evaluate your fluid or sampling systems, advise on installation practices, and recommend system enhancements via detailed reports.

## Onsite Services Help You...



### Promote Safety

Protecting your people, systems, and reputation starts with avoiding exposing team members to hazards related to improper fluid system design, installation, and maintenance, as well

as leaks. We provide recommendations to fix issues that could cause potential safety incidents or violations through:

- Leak identification
- Design risk evaluation
- Product selection assistance
- Fluid, sample, and steam system analysis
- Training and process recommendations



### Optimize Resources

If you are being asked to do more with reduced budgets and fewer experienced staff, we can help you streamline system installation, identify lower-maintenance components and designs, improve production quality and profitability, and train your team.

We provide:

- Repair prioritization
- Design services
- Fabrication and assembly services
- Product selection consulting
- Bill of materials (BOM) and piping and instrumentation diagram (P&ID) generation
- Customer training on best practices
- Preventive maintenance recommendations



### Reduce Costs

If reducing costs related to fluid system operations and maintenance is your goal, Swagelok field engineers can assist in uncovering the most efficient, effective means of doing so. With

Onsite Services, we can help you reduce operating costs by identifying:

- Design optimization opportunities
- Installation errors
- Costly leak points
- Opportunities to improve accuracy
- Component substitutes for longer life
- Inventory reduction possibilities
- Standardization opportunities



### Increase Uptime and Reliability

Equipment downtime hurts your production revenue, strains your repair budget, and takes team members away from other important focus areas. Swagelok specialists can help

you recognize fluid system issues and prioritize improvements through:

- Leak detection and potential failure point identification
- Component selection for peak system life span
- Component registry for faster replacement
- Optimized sampling system design, reducing unnecessary analyzer calibrations and process changes
- Hose selection, installation, and maintenance recommendations

# Don't Face Your Fluid System Challenges Alone

Whether you are seeking to ensure reliable fluid system operation, boost process efficiency, reduce unplanned downtime, increase processing margins, lower operating costs, our services are designed to help you succeed.



## Find the Ideal Components for Your Application

Do you suspect that improper products are causing your fluid systems to underperform? We can help by finding and addressing issues with your:

- Fittings
- Valves
- Regulators
- Gages
- Hoses
- Tubing

Contact your local authorized Swagelok sales and service center to find out how we can assist you in selecting, assembling, and installing the right products to increase uptime and reliability while making your system safer, more efficient, and cost-effective.



## Take Advantage of System-Specific Expertise

Swagelok® Fluid System specialists have the knowledge necessary to assess your overall system health and find opportunities to improve

functionality. We specialize in optimizing:

- Analytical instrumentation
- Sampling systems
- Pump systems

Swagelok field engineers can also provide guidance on system design, oversee installation practices, and deliver training to your team as needed. Whether you need to improve your existing systems, want an expert's opinion on a new system design, or want help with training your team to install and maintain systems well, consider Swagelok® Onsite Services.



## Explore Our Onsite Services

Enhance your system reliability, process efficiency, and margins. Reduce downtime and operating costs. Start here.

### Fluid System Evaluation and Advisory Services

Find out where issues within your fluid systems are jeopardizing system functionality, as well as how your system designs could be tweaked to benefit your business.

### Sampling System Evaluation and Advisory Services

Improve sampling system reliability, reduce operating and maintenance costs, and identify unseen opportunities for system improvement.

### Leak Detection Services

Identify leaks in your gas systems, find out how much cost and risk they contribute to your business, and prioritize enhancements accordingly.

### Hose Advisory Services

Eliminate a variety of hose-related issues that cause safety concerns, unplanned downtime, low product yield, and costly parts replacements.

### Grab Sampling Support

Work with our experts to produce more accurate, compliant, and safe samples while reducing your grab sampling costs.

### Analytical Instrumentation Evaluation and Advisory

We offer a comprehensive Analytical Instrumentation Evaluation and Advisory service designed to help customers improve the performance, accuracy, and reliability of their sampling systems.



# SWAGELOK® COMPREHENSIVE REPORT

Quickly Assess the Situation with Our Easy-to-Follow Report.

Fluid System Evaluation and Advisory Service  
Customer Name : Site Name  
Appendix C - Issues by Issue Tag ID

Issue Tag ID : 0001

Category : 2

Plant Area: Air Supply

Part Material: Stainless Steel

Customer Tag ID: PI-120C

Connection Type:

Location: North Side of Plant

Connection Size: 1/2 in

GPS Location:

Part Description: 0-100 PSIG Pressure Gauge

Process Fluid: Air

Type of Part: Measurement Devices

Pressure: 100 psig

Manufacturer: Unknown

Temperature: 70 F

Part Number:

Issue: Incorrect Part

Equiv Swagelok Part: PGI-63C-PG100-LAOX

Description: Gauge is being used near max range which may cause damage and over pressurization.

Other Findings:

Possible Solution: Replace component(s) according to manufacturer's instructions

Ultrasound dB: n/a

Ultrasound ID: n/a

Issue Tag IDs Sorted Numerically

Concerns Categorized by Severity

Locations Called Out Within Plant

Issues Quickly Identified

IMPORTANT: Always depressurize the system before working on Product Selection: When selecting a product, the total system de free performance. Function, material compatibility, adequate rating are the responsibilities of the system designer and user.

NOTE: Where the Part Number is followed by " \* ", it should be co

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Fluid System Evaluation and Advisory Service  
Customer Name : Site Name  
Appendix A - Issues by Category

Issue Category : 1						(Number of Issues in this Category : 3)
Issue Tag ID	Part Type	Issue	Plant Area	Cust Tag ID	Description	Fixed
0003	Hose	Small Leak	Air Supply	F0012	Leakage apparent by snoop testing at end connection. Hose cover is worn and damaged.	<input type="checkbox"/>
0009	Fittings	Underlightened	Air Supply	NA	Tube fitting measured with gap gauge to be severely under-tightened. Fittings are installed with no clearance for maintenance.	<input type="checkbox"/>
0004	Fittings	Intermix	Air Supply	T 0026	Parker tee with Swagelok nut	<input type="checkbox"/>

Issue Category : 2						(Number of Issues in this Category : 5)
Issue Tag ID	Part Type	Issue	Plant Area	Cust Tag ID	Description	Fixed
0008	Fittings					

Information Also Sorted by Category and Plant Area





# Let's talk about your benefits



## The Report

If reducing costs related to fluid system operations and maintenance is your goal, Swagelok field engineers can assist in uncovering the most efficient, effective means of doing so.



## Your Savings

From our previous inspections, we have learned that the cost per leak is more than \$200, per annum. In addition to cost savings, you will save time and money on repairs. Your workforce will also work more efficiently.



## Survey Summary

Our goal is to help you prevent leakage or incorrect installations at your site. The conclusions from this report will provide you with a basis for a well-thought-out plan and will save you time and money in a safe environment.

## Engineered to Perform Under Pressure

We can provide you with a wide variety of service solutions delivered by our local certified experts at PT NusaFluid Solusi Utama. Our quality, performance and reliability will reduce your costs in designing, sourcing, installing and maintaining fluid system solutions.

Scan for more information.



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