

SWAGELOK[®] ONSITE

FLUID SYSTEM EVALUATION & ADVISORY SERVICES

SWAGELOK INDONESIA



Swagelok[®]

Swagelok Indonesia

Swagelok Indonesia, 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 Indonesia.

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

At Swagelok, we're committed to providing our customers with onsite services options that align with their specific needs and concerns.



Swagelok
FIELD ENGINEER

SWAGELOK® FLUID SYSTEM AND ADVISORY SERVICE

Is your fluid or gas application safe?

Are you absolutely certain that your applications do not leak?

What are the risks of fluid or gas applications?

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

Access to technical experts as support

Access to stock for product replacement

Analysis of site inspection results

Strategic planning of maintenance activities

SWAGELOK® FLUID SYSTEM AND ADVISORY SERVICE - OVERVIEW

Improve Performance and Safety. Reduce Costs and Labor Time.

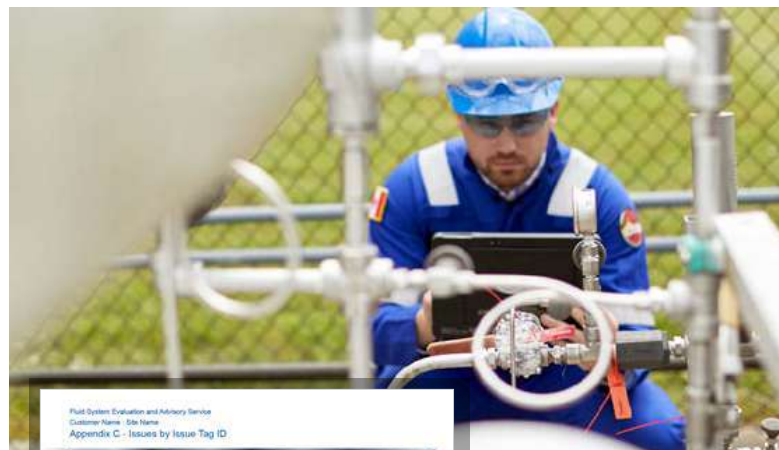
Let us help you solve your biggest fluid system challenges—quickly and efficiently. Our Fluid System Evaluation and Advisory Services brings our technical expertise, application experience, and industry knowledge onsite to help optimize your safety, productivity, and profitability. Our local certified associates help you diagnose and resolve fluid system issues to improve operational performance, reduce cost and labor time, and help control safety, quality, and environmental challenges.

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: 91-1202	Connection Type:
Location: North Side of Plant	Connection Size: 1/2"
OPC Location:	
Part Description: 0-100 PSIG Pressure Gauge	
Process Fluid: Air	Type of Part: Measurement Device
Pressure: 100 (psig)	Manufacturer: Unknown
Temperature: 70 F	Part Number:
Issue:	Stock Swagelok Part: PGI-83C-PS100-LADK
Description:	Gauge is being used near max range which may cause damage and over pressurization.
Other Findings:	
Possible Solution:	Replace components according to manufacturer's instructions
Ultrasound dB:	n/a
Ultrasound ID:	n/a



IMPORTANT: Always depressure the system before working on, disassembling or assembling a fluid system. Safe Product Selection, which selecting a product, the final system design must be implemented 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.

NOTE: Where the Part Number is followed by "****", it should be confirmed before placing an order.

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SWAGELOK® FLUID SYSTEM AND ADVISORY SERVICE - PROCESS

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

Onsite Inspection Application

The Onsite Inspection Application is used during this process.

This intrinsic safe tablet based application provides digital data collection, with fast and efficient reporting. We'll take a closer look at your systems, and provide you with knowledge and advice to get you where you need to be.

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.


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: Part Material:
 Customer Tag ID: Connection Type:
 Location: Connection Size:
 GPS Location:
 Part Description:
 Process Fluid: Type of Part:
 Pressure: Manufacturer:
 Temperature: Part Number:
 Issue: Equiv Swagelok Part:
 Description:
 Other Findings:
 Possible Solution:
 Ultrasound dB: n/a
 Ultrasound ID: n/a



IMPORTANT: Always depressurize the system before working on, disassembling or assembling a fluid system.
Product Selection: When selecting a product, the total system design must be considered to ensure safe, reliable performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.
NOTE: Where the Part Number is followed by " * ", it should be confirmed before placing an order.

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Issue Tag IDs Sorted Numerically

Concerns Categorized by Severity

Locations Called Out Within Plant

Issues Quickly Identified

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	Undertightened	Air Supply	NA	Tube fitting measured with gap gauge to be severely undertightened. Fittings are installed with no clearance for maintenance.	<input type="checkbox"/>
0004	Fittings	Integrity	Air Supply	T-0026	Parker tee with	<input type="checkbox"/>

Information Also Sorted by Category and Plant Area

Fluid System Evaluation and Advisory Service
Customer Name : Site Name
Appendix B - Issues by Plant Area

Plant Area : Air Supply (Number of Issues in this Plant Area : 9)

Issue Tag ID	Part Type	Issue	Category	Cust Tag ID	Description	Fixed
0008	Fittings	Small Leak	2	CV 0045	Leak at fitting end connection detected by Snoop, appears to be missing PTFE tape	<input type="checkbox"/>
0006	Valves	Corrosion	2	CV 0087	Valve displaying corrosion which may impact serviceability	<input type="checkbox"/>
0007	Piping	Small Leak	2	F 0001	Leakage detected at pipe fitting connections using Snoop	<input type="checkbox"/>
0003	Hose	Small Leak	1	F0012	Leakage apparent by snoop testing at end connection. Hose cover is worn and damaged.	<input type="checkbox"/>
0005	Fittings	Corrosion	2	G 0265	Severe corrosion	<input type="checkbox"/>
0002	Tubing	Support				<input type="checkbox"/>

Fluid System Evaluation and Advisory Services

Let's talk about your benefits

THE REPORT

Shortly after the installation inspection survey you will receive a report that provides advice on the health of your system including enhanced industry best practices, suggestions for improvements and/or replacements.

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.

Time spent now, will save you time and money in the near future.

ENGINEERED TO PERFORM UNDER PRESSURE

Swagelok Indonesia can provide you with a wide variety of service solutions. Our quality, performance and reliability will reduce your costs in designing, sourcing, installing and maintaining fluid system solutions.

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