



# Mining Solutions

Collaborating With You For Safety and Success



## MINING INDUSTRY

The Philippines is 5th most mineral-rich country in the world for gold, nickel, copper and chromite. It is home to the largest copper-gold deposit in the world and ranks second as a nickel ore exporter.

Currently, the mineral sector is seen to play a crucial role in the recovery of the economy. New mining projects worth several billions of investment ready to roll and a few tens of projects, already in the advanced stage of exploration, are bringing optimism.

However, even with these projects, resources and the constantly growing contribution of mining in the Philippine economy, the industry cannot fully accelerate as it has its fair share of challenges to stay competitive.

- Rising Cost
- Declining Production
- Safety
- Access to Energy
- Workforce Planning
- Preservation of Biodiversity



## SWAGELOK PHILIPPINES

Swagelok Philippines is the exclusive Authorized Sales and Service Centre for products manufactured by Swagelok and a recognized solutions provider for fluid system components. We have become synonymous to reliability in a myriad of industries which includes Power, Petrochemical, Oil and Gas Refining, Semiconductor, Mining and Pulp and Paper.

Our team, consisting of engineers with wide-ranging industry experience spanning 10 to 20 years, together with highly skilled and dedicated associates, seek to provide unfailing reliability that encompasses timely delivery, efficient support, and highly competent technical expertise. Our associates go the extra mile to collaborate with you in meeting your overall business needs.

Our goal is to help customers meet safety requirements, reduce operating cost and minimize system downtime with technical support, assembly services, training and onsite evaluation and advisory services. Successful companies have trusted us to deliver value and results.

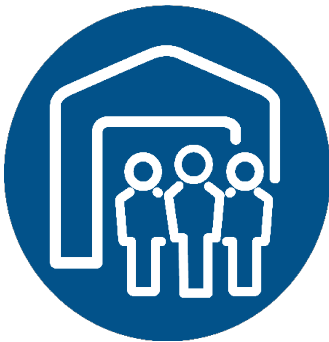




## COMMITMENT TO THE PARTNERSHIP

Are your suppliers there for you? Not just with a product, but with the services needed to support your business needs. At Swagelok Philippines, our approach is to anticipate your needs as you are in far flung areas. We aim to be your consultant and collaborator ready to address your business challenges like:

- Total cost control
- Inventory management
- Technical expertise
- Energy audits
- Training and education



## LOCAL SUPPORT

You need someone on the ground in your location, a team that knows the local language, culture, and regulations, and has substantial product inventory. You need fast and responsive service and a vendor with proven operational experience to deliver solutions on time.



## TECHNICAL PARTNER

You need a valued technical partner, whose engineers can recommend efficiencies and cost-saving measures in your system. You need a partner who can educate new workforce to ensure continuity and safety. At Swagelok Indonesia, we have a network of experts within and around the global community of Swagelok who could provide technical expertise for system efficiency and optimization.



## PRODUCT QUALITY

Swagelok products are world renowned for its quality, performance and reliability. These products were manufactured to the strictest of regulations, with appropriate approvals and certifications, ensuring compliance and performance that meet or exceed regional and industry requirements. Behind every Swagelok product, service and solution is the **Swagelok Limited Lifetime Warranty** and a reputation built on proven expertise and innovation.

## VALUE PROPOSITION

From technical support to logistical concerns Swagelok Indonesia has the substantial resources to help you achieve **PROFITABILITY, EFFICIENCY AND SAFETY**.

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### **FLUID SYSTEM EVALUATION AND ADVISORY SERVICES**

We have field engineers to check for leakage through fitting and valve reliability inspection and tubing practices assessment and look through issues like corrosion and improper installation. We help reduce maintenance cost and improve equipment availability.



### **COMPRESSED GAS LEAK DETECTION SERVICES**

We help you identify compressed gas leaks and quantify leak rates so you can prioritize the most critical issues to address, based on safety, cost, and productivity. Every day that a leak goes unfixed, it's hurting your organization's bottom line. The sooner you make a concerted effort to address them, the better.



## TRAINING

Our training and education programs cover many areas, from trends and technology to installation and safety.

- Tube fitting installation
- Tube fitting inspection
- Tube bending
- Hose essentials
- Materials Science
- Sampling system maintenance and design



## DESIGN AND ASSEMBLY

When your resources are limited, let us provide a turnkey solution for you. We can follow your design or develop a new or revise one. We produce a professional, repeatable design with testing, inspection, and packaging – all with **Swagelok's Limited Lifetime Warranty**.



## MATERIAL MANAGEMENT

Our associates are savvy business people who understand your challenges and develop services to address them, such as kitting, consignment, automatic replenishment of your inventory and careful inventory planning to reduce wastage.



## PRODUCTS FOR THE MINING INDUSTRY



### Quality and reliable products for **PERFORMANCE** and **PRODUCTIVITY**

Our highly educated team of metallurgists, polymer scientists, chemical engineers, and physicists are supported with state-of-the-art laboratories to ensure you receive the highest levels of quality, reliability, and performance in every Swagelok® product.

We are dedicated to understanding customer challenges and meeting them with new product development, continued refinement and adaptation of existing products, engineered-to-order products, custom configurations, subassemblies, and more.



### **FITTINGS**

- Available in tube sizes 1/16 to 2 in. and 2 to 50 mm
- Consistent gaugeability upon initial installation
- Easy to disconnect and retighten
- Wide variety of materials and configurations

Types: Double Ferrule, O-ring Face Seal, Pipe Fittings and Metal-to-Metal Face Seal



### **VALVES**

- Variety of end connections including integral Swagelok tube fitting
- Broad operating temperature range
- Large selection of sizes and materials
- Minimal dead volume and entrapment zones

Types: Ball, Needle, Check, Relief, Plug, Metering, Toggle, Manifold, Bleed and Purge



### **REGULATORS**

- Instrumentation-grade models
- Unique design features such as metal-to-metal seal to atmosphere
- Self-vent and captured vent options

Types: Diaphragm Sensing, Piston Sensing, Pressure Reducing, Back Pressure, Vaporizing, Modular

## CASE STUDY

Mining companies are in hard-to-reach, farflung places with harsh environments. This is why we are committed to provide reliable products and dedicated service to overcome their unique challenges. Swagelok Philippines anticipated the client's challenges and the need for local support. An associate, fluent in the local dialect and experienced in this industry, was deputed to extend services.



The associate fostered collaboration and regular communication by bridging our Manila office with the client thereby reducing turnaround times on queries and deliveries. This led to a stronger business relationship, with the client engaging us in providing training services to upskill their installers with best practices on installation and maintenance protocols.

The client continues to engage our team for assistance with improving system efficiencies while keeping their workplace safe. They recently approved an onsite evaluation services for our team to thoroughly review their installed fluid systems and offer appropriate recommendations for proper maintenance.

### Problems:

- Leakages due to improper installation
- Product Availability
- Technical Support

### Solutions:

- Training for Tube Fitting
- Installation, Inspection and
- Tube Bending
- Quick Response and Delivery
- Providing Technical Support

**“Their reliable fittings along with tube fitting installation, inspection and tube bending helped us deal with leakage problems. Also, very quick response on our queries.”**

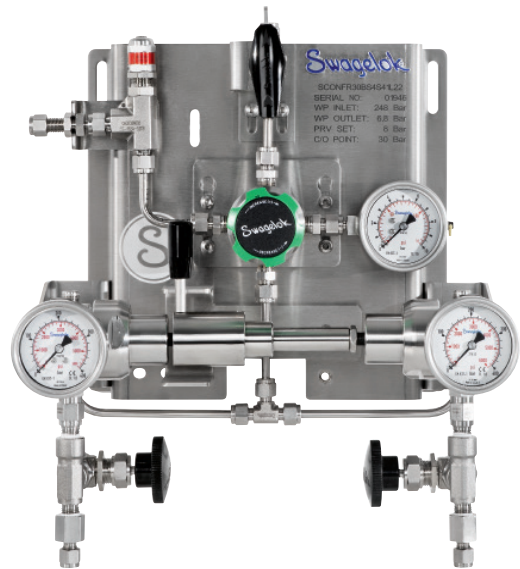
**- End user from Instrumentation Department**



## SUB-ASSEMBLIES FOR THE MINING INDUSTRY

### GAS CENTERS

We have a set of panels and points of use for gassystems applicable to mining. Manufactured with high-quality components, which ensures that the gas is available at the required pressure and conditions, and in an optimal time, eliminating risks of shutdown in the process. These centers will give you the security of having a constant flow and pressure in high and low pressure lines. They are all stainless steel and the use of Swagelok® components make them highly reliable, resistant to weather conditions, easy to operate and adjust, and free of maintenance.

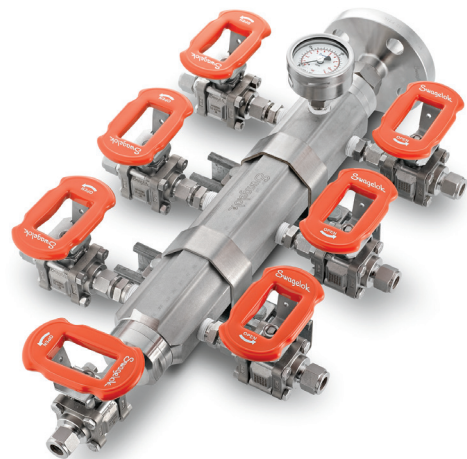


### DISTRIBUTION MANIFOLD

We have a standardized, configurable and reliable solution for managing the distribution of plant fluids. Distribution manifolds are very common components in a wide variety of applications for gases and liquids. They are used to administer fluids to the different consumption points, the most common fluids being: cooling water, steam, compressed air and nitrogen.

Additionally, it can be used as a collecting unit. A distributor block collects different fluid streams and offers a single connection for fluid disposal. Typical points of use or disposal include:

- Derivation of pneumatic actuation lines for cylinders and actuators
- Hydraulic lines for cathode stripping machines
- Instrument Air
- Return to low pressure process
- Chimney gas collector

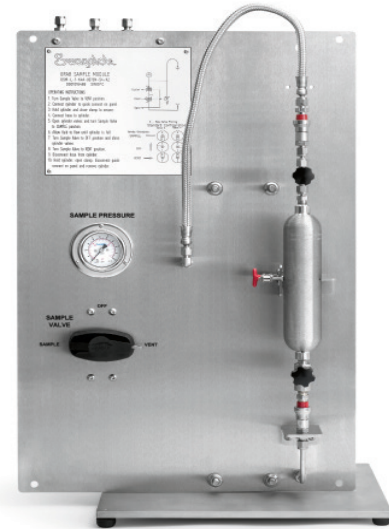


## SAMPLING PANELS

Sampling panels are used at sampling points for laboratory sample analysis and may include sampling of process waters, streams, process fluids, acid plants, leaching fluids, and environmental control systems.

Custom Swagelok sample panels capture gas or liquid samples from pipes, tanks or systems and transport them to the laboratory for analysis.

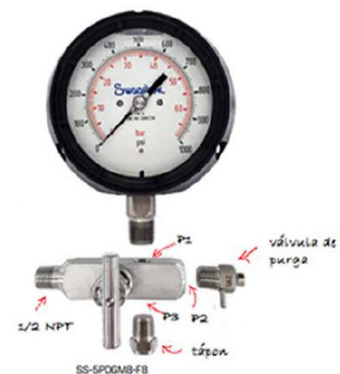
The panels are available in a variety of configurations and with advanced features, as well as different mounting options to facilitate installation.



## PRESSURE GAUGE AND ISOLATION VALVE

Get the complete solution for pressure control in your processes from a single source. We offer you the pressure gauge + isolation valve set to reduce assembly times and the need to make more than one order for a single requirement, while obtaining the quality and support of Swagelok easily and quickly. The Swagelok Isolation Valve allows you to safely remove, change, and calibrate your pressure gauge, as it has not only a builtin stop valve that cuts off flow to the pressure gauge, but also a bleed valve and a third port to connect a second manometer for online calibration.

These pressure gauge + isolation valve assemblies are found on all mining plants where a pressure measurement point is required. From the hydraulic pressure of a truck tipper to the O2 feed in a foundry, its use is present in all plants and applications.



## **The Swagelok Advantage**

When you partner with Swagelok, you connect to a technology leader. You gain access to high-quality fluid system components, training, and a global network of knowledgeable associates who are passionate about helping you solve the tough problems you face in discovering new mineral reserves.

You also connect to top-notch engineering, design, materials science, and logistics support. We deliver personal service that leads to high-value relationships you can count on in the long run. We can help you overcome challenges.





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

How can we  
work together  
to achieve  
your goals?  
Get in touch  
with us!

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