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Mining



Mining Solutions

Collaborating With You For Safety and Success.





Mining Industry

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Indonesia is endowed with rich natural resources 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. New mining projects worth several billions of investment ready to roll and 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 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

At Swagelok Indonesia, we understand your challenges and we partner with you in providing solutions to assist in achieving your business goals and ensuring safety of your people.



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 Indonesia, 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 services and a partner 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.

Mining Industry

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



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. Thru FSEAS, we help your maintenance team to reduce 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



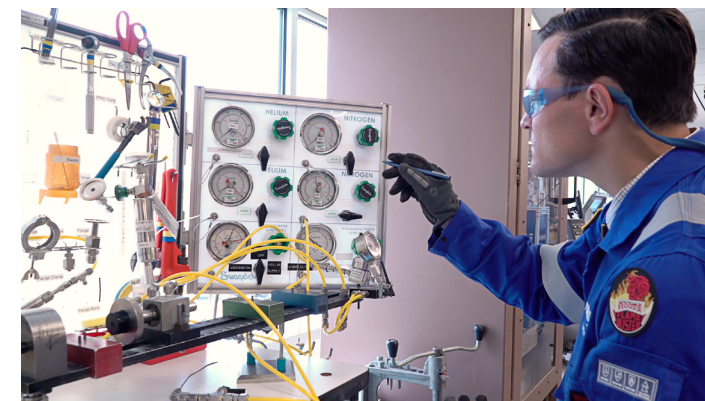
Design and Assembly

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.



Application Solution

Fluid System Expertise and Experience Where and When You Need It. Swagelok field engineers can help you develop effective responses to your most pressing fluid system-related challenges. They are located across the globe, regularly collaborate with one another to find the best solution to customer challenges, and can work with you through Swagelok Indonesia.

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, remote places with harsh environments. This is why we are committed to provide reliable products and dedicated service to overcome their unique challenges. Swagelok Indonesia anticipated the client's challenges and the need for local support. 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.



"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

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



Services Capabilities

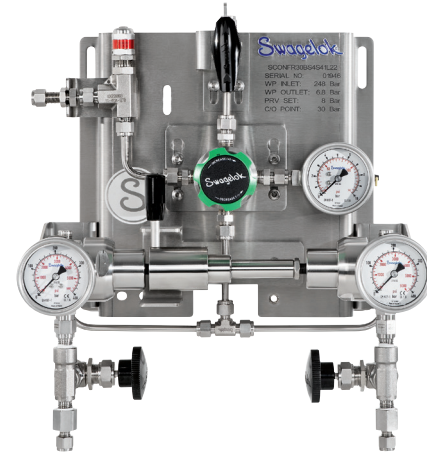
Application Solution :

Gain the Support You Need from Local Experts. Swagelok® onsite services bring industry-leading fluid system technical expertise, application experience, and application knowledge directly to you. Swagelok field engineers visit your facility, evaluate your fluid handling or sampling systems, advise on installation practices, and recommend system enhancements via detailed reports tailored to address your most pressing challenges. As a result, you receive the insights you need to improve performance, productivity, reliability, and safety of your fluid systems while also reducing costs and mitigating environmental risks.

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.

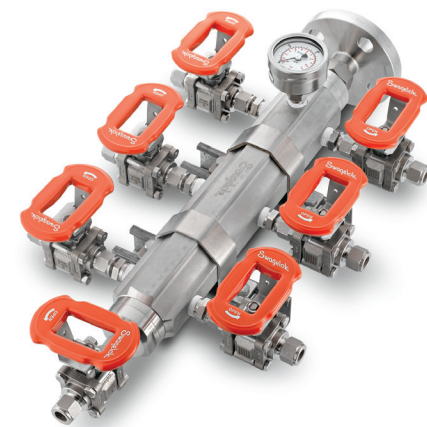


Distribution Manifold

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