

[ SPECIAL EDITION ]

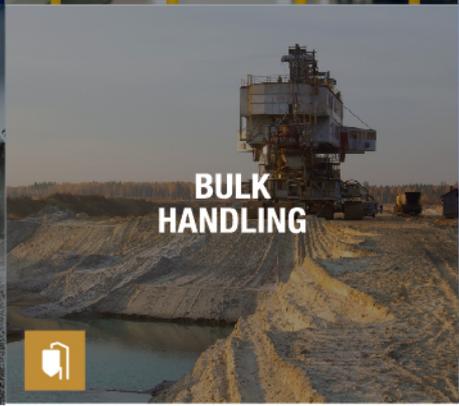
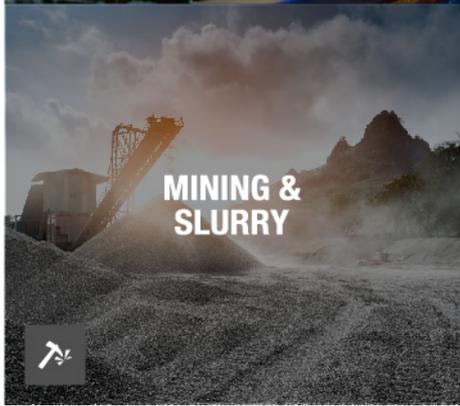
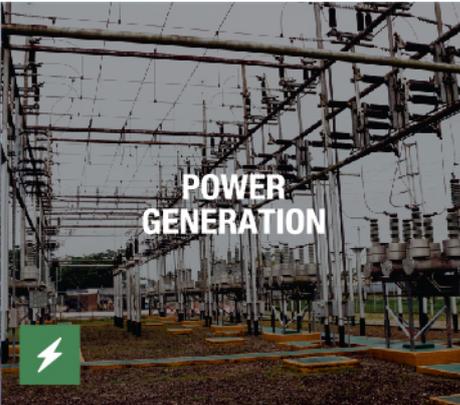
INDUSTRIAL VALVE SOLUTION



**AVK SOUTHEAST ASIA**  
DELIVERING AFFORDABLE  
HIGH QUALITY

Expect... **AVR**





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## 4<sup>th</sup> AVK Southeast Asia Regional Magazine

Published date  
**October 2023**

Published by  
**AVK Southeast Asia team**

Content  
**Rachel Lim**  
Regional marketing manager,  
AVK Southeast Asia

**Frontpage Image**  
Open-Pit Mining with Factory  
Capacity of 600,000 Tons Raw  
Ore Per Year In Cao Bang, One  
of The Largest Mining Province  
In Vietnam. In this project, AVK  
collaborated with Hung Phuc  
Group, who primarily operates  
in the industrial and civil sectors  
and established a business  
relationship with AVK Vietnam  
since 2018.

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from AVK Southeast Asia team.

### FOREWORD

Welcome notes from Gert Borrits  
Regional Managing Director, AVK Southeast Asia

### INDUSTRIAL IN THE SOUTHEAST ASIA REGION

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**AVK Vietnam**  
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**AVK Philippines**  
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### MEMBERS OF THE AVK GROUP

**InterApp**  
Strengthens Presence In The APAC Region

**ORBINOX**  
Footprint And Success In Southeast Asia Region

**CYL**  
Your Expert Partner For Knife Gate Valves

**WOUTER WITZEL**  
Unlocking Decades Of Excellence - Journey In Southeast Asia

### HAPPENINGS

#### Events And Exhibition

**AVK Philippines**  
WaterPhilippines 2023

**AVK Fusion Indonesia**  
Distribution Conference 2023  
Indonesia Water And Wastewater Expo & Forum

### UPCOMING EXHIBITION

### AVK SOUTHEAST ASIA CONTACT

### SNEAK PEEK! AVK HVAC BUILDING SERVICE

# AVK INDUSTRIAL

AT AVK INDUSTRIAL, WE BELIEVE RESPONSIBLE TECHNOLOGICAL AND INDUSTRIAL PROGRESS IS THE FOUNDATION TO ACHIEVING ENVIRONMENTAL OBJECTIVES AND BETTER STANDARD OF LIVING – FOR ALL.

Dedicated members of the **AVK** Group



# WELCOME NOTES

## DEAR VALUABLE PARTNERS



### Dear Valuable Partners,

While the world is fighting to stay on course for a positive recovery coming out of the Covid pandemic, Southeast Asia, in particular, finds it challenging to finance the many new and necessary projects in its aftermath. I am pleased to share with you this newest edition of our regional AVK valve solution magazine. In this edition, as earlier promised, we are focusing on a special edition regarding our comprehensive and very interesting industry valves solution package. As you might already know, we have a strong series of different brands belonging to the AVK Group, brands that are each in their own unique way able to create added value for your requirements in respect to valve solutions.

Whether it is open-pit Nickel-Copper mining in Vietnam, pipeline rehabilitation in the Philippines, a power plant retrofit in Riau – Indonesia, or high-purity semiconductor production in Singapore, you will read about solutions that add value to the application and the customer.

We will also take you to a couple of exhibitions in the Philippines and Indonesia, just as if we were visiting our newly successful Distributor Conference held in Jakarta, Indonesia.

We sincerely hope that you will enjoy the reading, and as usual, we recommend that you do not hesitate to contact the AVK teams should you

require any further information. The contact details can be found at the back of the magazine.

**NEWS:** Next edition of our magazine will have a special feature of our strong valve solution for the Building Service Segment.

Yours sincerely,

**Gert Borrits**

Regional Managing Director  
AVK Southeast Asia



*In the photograph, Mr. Gert Borrits is seen posing in front of the signage at AVK Indonesia premise. The industrial brands featured on the signage include Fusion, Wouter Witzel, TecArtec, InterApp, ICV, Orbinox, CYL, Glenfield, AC.MO, and OMV.*

# EXPECT... INDUSTRIAL SOLUTIONS

## THE AVK INDUSTRIAL DIVISION OFFERS COMPETENCY AND LONG-TERM PARTNERSHIP

A broad combination of strengths and competencies within various industries.

The companies in our Industrial Division are each responsible for their product package to the industrial segments. Each of the companies, counting their present partners, has great expertise within customised valves and accessories, as well as complete solutions. Therefore, we find it essential to keep developing the existing sales organisations and partners.



### FIRE PROTECTION

AVK's fire protection range is UL/JULC listed and FM approved and complies with international standards. It consists of hydrants, post and wall indicators, NRS post indicator valves, handwheel-operated OS&Y gate valves, swing check valves, butterfly valves and fittings. Furthermore, AVK holds a VdS approval for NRS handwheel-operated gate valves.



### WATER TREATMENT PLANTS

Covers applications such as drinking water, industrial wastewater, high purity water, demineralised water, and desalination processes including thermal process, reverse osmosis and EDR process.



### POWER GENERATION

Applications include hydro power, fluegas desulphurisation, cooling water, steam, waste incineration and renewable energy.



### PULP AND PAPER

Valves for applications within the paper, cardboard, and recycling industries.



### CHEMICAL PROCESSING

The chemical processing field covers a number of applications such as production, distribution, surface treatment, and biofuels.



### OIL AND GAS

Applications include petrochemical, gas distribution and production, coal seam gas, LNG, floating production, storage and operation, fire protection as well as cooling water.



### MARINE

Valves and actuators from the AVK group of companies can be found in various places on board any type of ship, wherever critical applications demand maximum reliability.



### LIFE SCIENCE

Products from the AVK group of companies comply with the most demanding requirements for applications within pharmaceuticals and biotechnology, food, and beverage as well as the cosmetics industry.



### **DAMS & RESERVOIRS**

AVK's product portfolio comprises a large and comprehensive range of gate valves, butterfly valves, check and recoil valves as well as a proven and most reliable range of submerged discharge and free discharge valves.



### **STEEL INDUSTRY**

Engineered valves and dampers to control gases in the steel manufacturing process.



### **METERING**

Our range of smart meters excels in precision and usability. Meters are quickly and easily customised and adapted to various standards and specifications. Quality and safety are paramount in metering and hence never compromised.



### **DISTRICT COOL- AND HEATING**

We supply a wide range of valves, gears and actuators for district cooling and heating systems. These products are distinguished by robust design, corrosive resistance, minimum condensation and long, maintenance free life. Our valves can be used in all applications both within and outside the buildings.



### **MINING / SLURRY**

The product range covers valves and accessories for applications such as acid and solvent extraction of metals, slurries and cooling systems.



### **BULK HANDLING**

Equipment for the handling of a wide range of dry solids of different granulometries which involve severe working conditions of pressure, temperature, and abrasiveness.



### **AIR SEPARATION**

Engineered valves used in the process of separating atmospheric air into its primary components.

# HOW WE CONTRIBUTE

THE WORLD FACES HUGE CHALLENGES TOWARDS THE GREEN TRANSITIONS AND THE FULFILLMENT OF THE 17 SUSTAINABLE DEVELOPMENT GOALS AS ESTABLISHED IN 2015 BY THE UNITED NATIONS GENERAL ASSEMBLY WITH THE 169 TARGETS THAT ALL AIM AT MAKING THE WORLD A BETTER PLACE TO LIVE

## SUSTAINABLE DEVELOPMENT GOALS

For AVK, sustainability and sound economics go hand-in-hand. By reducing water waste you not only save money, you actively help reduce electricity consumption and protect one of our most valuable resources. Our high-quality solutions minimise environmental impacts caused by excavation, repair or replacement. This ensures that your business is based on a sustainable foundation living up to the requirements of social responsibility and environmental conscience.



# EXPECT... AVK

BECAUSE OF OUR SOLID KNOW-HOW AND DECADES OF EXPERIENCE, IT IS SAFE TO EXPECT MORE FROM US - NOW AND IN THE YEARS TO COME. WE MAKE A DIFFERENCE ONLY BY ASSURING PROGRESS FOR OUR CUSTOMERS, AND FOR THE WORLD SURROUNDING US.

## OUR BUSINESS IS CENTERED AROUND FIVE AREAS OF DISCIPLINE

As a global leader it is our obligation to keep pushing the boundaries of what the market can expect. In our business there are five cornerstones that must be in place in order to meet customer expectations:

### QUALITY

Quality guarantees customers that the solutions work, last and lives up to or exceed standards and requirements from the markets and prevent unforeseen additional costs. We continuously improve our skills and knowledge, and work and cooperate professionally and focused.

### INNOVATION

Change is the keyword for business today. Therefore, it is crucial that customers choose an innovative supplier who ensures easy adaptation to future market demands.

### SUSTAINABILITY

Sustainable development is essential for society and business to thrive and grow. Pursuing a sustainability strategy can lead to sustainable business, new business opportunities and significant cost savings for our customers.

### CUSTOMER SERVICE

Customer satisfaction does not only derive from our products, but from the service we offer to our customers as well. Customer service reflects the professional way a company handles the needs, queries and requests of its customers.

### RELIABILITY

Reliability is becoming increasingly important in an uncertain business world. With one reliable supplier the customers can measure performance and make changes to constantly improve their business.



# PIVOTAL SUCCESS MUARA KARANG POWER PLANT EXPANSION

# INDONESIA



## **InterApp Desponia Butterfly Valve and ValveFinder® Tool Marked Pivotal Success To Pembangkit Jawa-Bali, UP PLTGU Muara Karang Combined-Cycle Power Plant Expansion.**

The 1,600MW Muara Karang power plant located in Pluit, approximately 10km north-east of Jakarta, Indonesia, underwent significant expansion with a 500MW gas turbine combined-cycle (GTCC) power generation unit adding to the plant, making its total capacity to 2,100MW after expansion. The commissioning took place in 2020, served as a significant milestone in meeting the growing energy demands of the region.

The Muara Karang combined-cycle power plant is owned and operated by PT Pembangkitan Jawa-Bali (PJB), a subsidiary of PT Perusahaan Listrik Negara (PLN), a state-owned electricity generation and distribution utility of Indonesia.

In October 2020, the expanded power plant commenced its commercial operation and is expected to have 25 years of operational life, missioned with reduction of greenhouse gas emission. Muara Karang energy facility was built in 1979 as a coal-fired power station in the northern suburbs of Jakarta. It was converted to natural gas-based combined-cycle operation in 1992. Power generated by Muara Karang plant is evacuated to 150kV grid network, powering some of Jakarta's major business districts and government establishments. The expansion was carried out at big thermal power plants in West Java, as part of Indonesia Government's National Energy Policy of 2014 – to increase the country's generation capacity from 51GW to 115GW by 2025.

## **AVK Delivers InterApp Valve Solution For Desalination Plant**

AVK, known for its reliable and extensive valve solution portfolio, was called in to retrofit the existing valves due to functional failure that was already posing threats to the plant's overall performance and causing downtime.

AVK Fusion Indonesia stepped in with InterApp valve solution to address the challenges. The selected valve prioritized modulating function specifically tailored to





# CAO BANG OPEN-PIT MINING 600,000 TONS RAW ORE/ YEAR VIETNAM



**Open-Pit Mining with Factory Capacity of 600,000 Tons Raw Ore Per Year In Cao Bang, One of The Largest Mining Province In Vietnam.**

The mining industry has been acknowledged as one of the strongest sectors of Vietnam's economy for over a decade now. According to the General Statistics Office (GSO, 2019), in the period between 2005 and 2018, the sector contributed an average of VND 273,778 billion (estimated USD 12.21 billion) to the nation's gross domestic product, accounting to 9.39% of the total GDP. Meanwhile, the mining industry has created jobs for thousands of people, particularly in the poorer provinces. From 2005 to 2015, 274,041 people on average were employed each year by the mining sector (GSO, 2019). Vietnam is identified as a mining nation with more than 5,000 ore occurrences nationally, representing 70 different types of minerals.

The open-pit mining of Nickel - Copper minerals project from Tan Phat Minerals Joint Stock Company has a total investment of over 1,500 billion VND with capacity of 600,000 tons of



raw ore exploitation per year, with mining area of 25.7 ha (257,000 m<sup>2</sup>). This project has emerged as a vital driver of socio-economic development in Cao Bang province, holding significant potential to generate substantial employment opportunities for the local population.

### **AVK Joins Forces with Tan Phat Minerals for Mining Project**

Tan Phat Minerals Joint Stock Company, an established entity in mineral exploration and mining, was approached by AVK during the initial stages involving design and budgetary considerations. In this project, AVK collaborated with Hung Phuc Group, our official partner, to supply our product solutions. Hung Phuc Group primarily operates in the industrial and civil sectors and established a business relationship with AVK Vietnam since 2018. Since the signing of the first contract in 2019, official partnership is maintained and continues to this day.

### **Overcoming Challenges in Cao Bang Mining Project**

Cao Bang, a well-known province in Vietnam for its significant mining activities, is however encountering numerous challenges and complications due to ineffective management practices. To overcome these issues, the project implemented appropriate techniques in considering of various operational factors, including the mineral system, deep groundwater, chemicals, equipment operating conditions, and external valve requirements to meet specific working environments, pressures, and temperatures. On top of all, the valve must function reliably in the event of power failure or air loss, ensuring fail-safe operation by accurately maintaining its opening/ closing position. Hurdles along the project development include:

- Complex geographical location: The project is characterized by open-pit mining which poses challenges in managing complex terrain
- Adverse climate conditions: Cao Bang province has a humid subtropical climate with distinct seasons. Winters, from November to March, bring temperature drops of 4 to 5 °C, while the rainy season, from late April/ early May to October, leads to landslides. These weather conditions significantly impact project's progress
- Projection of mineral production: Estimating the mineral production capacity is a complex task that requires reliable data and

appropriate techniques to meet both national and global demand.

However, due to lack of expertise among local consultants, the project design had to undergo several adjustments

- External and internal factors: The project is further influenced by external factors including the recent supply chain crisis, the Covid-19 pandemic, the Russia-Ukraine war, global demand fluctuations, as well as internal factors from institutional and regulatory issues, the resource curse, economic growth, and socio-environmental concerns. These factors present additional challenges to overcome



### AVK Vietnam's Winning Collaboration with InterApp and CYL

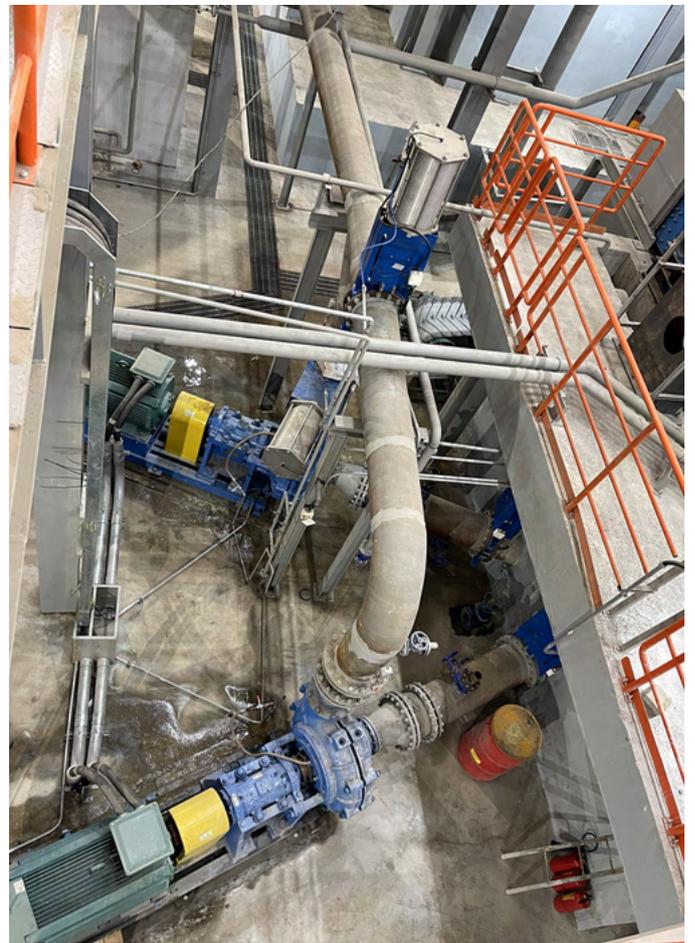
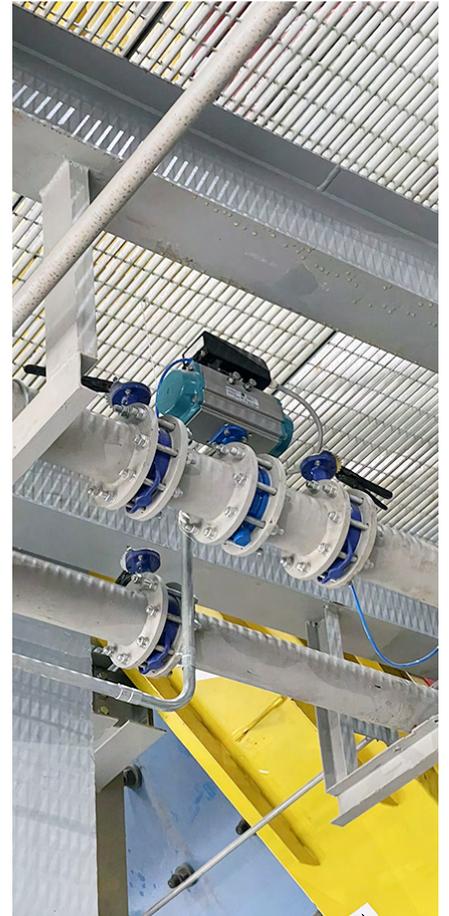
To accommodate the project's unique geological conditions and meet urgent delivery requirements, AVK Vietnam received support from AVK manufacturers, InterApp Group, and CYL. This collaborative effort ensured timely delivery to the project site, contributing to the success of the project. The expertise provided by InterApp Group and CYL played a pivotal role in achieving success, particularly in determining the optimal product configuration. The winning product package included:

- Butterfly valve with pneumatic actuator and positioner, equipped with a fail-safe configuration (fail last/ fail closed/ fail open) to ensure proper functioning during power failure or air loss
- Bianca butterfly valve with pneumatic actuator designed specifically for chemical applications, featuring a fail-open configuration
- Knife gate valve with pneumatic actuator and solenoid valve, incorporating a fail-safe configuration (fail last) to maintain operation in the event of power failure or air loss

In nutshell, meeting delivery deadline by the end-users, tailored solutions to valve operations with digital application, supporting contractors in product specification and engaging end-users from the early stages were the winning keys of AVK Vietnam over its competitor EBRO Armaturen.

Written by

**Amy, Chuong Ngoc Anh**, Internal Sales Manager, AVK Vietnam





# VALVE SOLUTION PIPELINE REHABILITATION PROJECT

## PHILIPPINES



### **InterApp's Desponia Butterfly Valve – The Perfect Solution for Metropolitan Cebu Water District's Pipeline Rehabilitation Project.**

A batch of Desponia butterfly valve in wafer type was successfully delivered to Metropolitan Cebu Water District via JFAP Construction in the 1st quarter of 2023, by AVK Philippines.

### **JFAP Construction: A Key Player in Maritime Engineering**

JFAP Construction, renowned for its expertise in maritime civil engineering, has established itself as a key player in the industry, with specialization in ports and hull blocks construction. The company's proficiency in maintaining power plants and chemical plants in the Visayas Region further solidifies its standing. Furthermore, JFAP plays a pivotal role in the vital Pipeline Rehabilitation Project at Metropolitan Cebu Water District (MCWD).

As the second largest water utility district in the Philippines, MCWD plays critical role in meeting the water needs of a large population. With daily production capacity exceeding 232,000 cubic meters, MCWD serves over 200,000 service connections in

its extensive service area. This includes the cities of Cebu, Mandaue, Talisay, and Lapu-Lapu, as well as the municipalities of Consolacion, Liloan, Compostela, and Cordova, empowering water supply for thousands.

### **AVK Philippines and InterApp Leave Promising Footprint in MCWD Pipeline Rehab**

AVK Philippines recommended InterApp's Desponia butterfly valve as the perfect solution for the pipeline rehabilitation project at MCWD, managed by JFAP Construction. To meet the project's specific needs, AVK Philippines supplied DN500, PN10, wafer type butterfly valves, equipped with gearboxes for improved control and seamless integration with the existing pipeline infrastructure. The valves were installed from Barangay Busay to Lahug City, spanning across multiple cities in Cebu, revitalizing the aging pipelines. This marked a major achievement in the pipeline rehabilitation project.

The successful installation and operated valves underscores AVK Philippines' commitment to delivering innovative and reliable solutions. By leveraging the expertise of JFAP Construction and the superior quality of InterApp's Desponia butterfly valves, AVK Philippines has contributed a promising footprint to MCWD's water supply network.

Written by

**Alyssa Joy Reyes**, Marketing, AVK Philippines



# HIGH-PURITY VALVE SEMICONDUCTOR PRODUCTION

# SINGAPORE



## InterApp's High-Purity Valve Solutions For Water Treatment In The Semiconductor Production

Reliable valve solutions from InterApp for treating ultrapure water, wastewater and chilled water were supplied to GlobalFoundries, by AVK Singapore.

GlobalFoundries' major expansion from Woodlands campus in Singapore includes 250,000-square-foot (23,000-square-meters) of cleanroom space and new administrative offices. The new facility is expected to ramp this year to reach the capacity with 450,000 wafers (300mm) manufacturing per year, raising the total capacity of its Singapore site to approximately 1.5 million wafers (300mm) annually.



In June 2023, GF announced its first tool into the company's new facility, just one year after breaking ground on the first phase of the expansion in partnership with Singapore Economic Development Board and co-investments from its stakeholders. Bringing increasing manufacturing capacity and fulfilling additional global demand for GF, producing chips used in automobiles, smartphones, wireless connectivity, internet of things (IoT) devices, and other applications.

In the expansion project, starting from the initial tendering, AVK Singapore together with InterApp, support and assisted the contracted companies, namely Topco Industries Pte. Ltd., Suez Water Technologies & Solutions Singapore Pte. Ltd., and Yenn Dar Pte. Ltd. With focusing on the right materials and precise valve specifications, ensuring full compliance to the specific applications. Product solutions

offered include ultrapure water, wastewater, and chilled water applications.

### **InterApp's High-Purity Valves: A Semiconductors Essential**

In the semiconductor industry, Ultrapure water (UPW) plays a pivotal role especially in the cleaning process of semiconductor wafers. The exceptionally high-purity water prevents even the tiniest foreign particles from entering the manufacturing process, ensuring the production of absolutely flawless products. As a result, the installation of high purity components becomes a critical requirement in this context.

InterApp butterfly valve Bianca in high-purity design and Desponia® in grease-free design are produced under the strictest purity conditions and are distinguished by their quality and high degree of purity.

### **AVK Singapore and InterApp: Leading Water EPC Solutions**

The close collaboration between the contractors, AVK Singapore and InterApp, along with the package solutions, has ensured the new production upholds the highest standards of quality and safety. This successful portfolio has reinforced AVK Singapore and InterApp's prominent position in the water EPC industry, as the leading and top-notch solutions for water-related projects.

Written by

**Rachel Lim**

Regional Marketing Manager, AVK SEA

**Bianca Butterfly Valve**  
PTFE-lined, high purity design

**Desponia Butterfly Valve**  
Elastomer-lined, grease-free design

**IA Motion Actuator**  
Pneumatic





# EMPOWERING POWER PLANT RETROFITS IN RIAU PROVINCE

# INDONESIA



**Wouter Witzel Valve from AVK Group: Empowering Power Plant Retrofits and Driving Industry Growth in Riau Province, Indonesia.**

The Pekanbaru Tenayan power plant in Riau Province, Indonesia, is 220-megawatt (Unit 1 and 2 x 110 MW) coal-fired power plant. Constructed by the PT. PLN Nusantara Power, national electricity utility owned by the Indonesian government. This coal-fired power plant consists of two units with each capacity of 110 MW. The project encountered major obstacles in land acquisition, resulting in delayed both in construction and operation, including the completion of transmission towers, back in 2015.

Unit 1 of the Pekanbaru Tenayan power plant commenced commercial operation in December 2016 and unit 2 in September 2017. As of August 2022, the power station reportedly supplied 70% of Pekanbaru's energy needs and accounted for 30% of Riau Province's overall energy demand.

**Wouter Witzel EVFS Butterfly Valve: A Corrosion-Resistant Retrofit Success**

AVK Fusion Indonesia was called in to retrofit the existing valve due to



*Image source @ facebook.com/ubjom.tenayan/*

functional failures. In this brand replacement exercise, AVK is to supply an operational dependable valve with the challenge of highly corrosive nature of the area. Corrosion poses significant threats to valve performance and durability, a valve that can withstand such harsh conditions is fundamentally critical.

Double Flange Wouter Witzel EVFS Butterfly Valve with fixed liner, known for its robust performance and low operation torque, effectively handle the

corrosive properties of seawater to ensure smooth operations during sea water intake for desalination. By addressing the prevalent corrosion issue, Wouter Witzel's solution emerged as a standout choice with its ability to withstand corrosive environments and maintain optimal performance. This project further affirmed Wouter Witzel, as member of the AVK Group, the preferred choice for industries facing similar challenges.

## Power Plant Ready to Fuel Tenayan Raya Industrial Growth

According to a news report by Bisnis.com in August 2022, the Pekanbaru Tenayan power plant is fully prepared to meet the electricity demands of the Tenayan Raya Industrial Area, located not far from the power plant. The Tenayan Raya Industrial Area is poised for significant development over the next 10 years, stated by local government officials. According to roadmap shared by the government, this area will transform into an advanced industrial and manufacturing hub, including a dedicated automotive assembly zone.

The local government are committed to

support relevant parties involved in the electricity sector to attract investors into Tenayan Raya Industrial Area. With reliable electricity supply, it is believed to foster medium and large-scale industries growth in the Riau Province.

## Power Plant Retrofit Fuels AVK's Promising Future

The successful retrofit at the power plant has opened a promising future for AVK. With the development of industries in the region, we anticipate high potential for AVK to meet the growing demand for reliable valves solution, from AVK Group of companies.

Written by

**Rachel Lim**

Regional Marketing Manager, AVK SEA





# GOLD MINING IN MALAYSIA OPPORTUNITIES AND INSIGHTS

MALAYSIA



*Image source @ monumentmining.com/news-media/photo-gallery/*

## **Gold Mining in Malaysia: Opportunities and Insights from Selinsing Gold Mine Visitation.**

Mining is one of the larger industries in Malaysia. The value of the gross output from the mining sector in Malaysia in 2015 was amounted to RM10,667.2 million (approx. USD 2,575.6 million) (Ministry of Economy Department of Statistic Malaysia, DOSM).

## **Gold Mining in Malaysia: A Lucrative Investment Attraction**

Malaysia is blessed with various natural resources, including bauxite, clay, coal,



copper, feldspar, gold, gravel, ilmenite, iron ore, kaolin, limestone, mica, monazite, sand, silica sand, struverite and tin. One of the main minerals mined in Malaysia is gold. Major gold mines in Malaysia are in Pahang, with Penjom and Selinsing being the main producing areas, contribute to nearly 80% of the domestic output, along with some minor areas in Kelantan and Terengganu. In 2011, the annual production of gold was 4,219 kg. There are 15 active gold mines recorded as of 2012. (Wikipedia)

Gold is an important resource and is commonly used in a wide variety of industries, such as jewellery, electronics, medicine, computers, etc. Furthermore, gold is commonly traded as a commodity and is used as a form of

investment. Accordingly, the gold mining sector in Malaysia is a lucrative foreign investment attraction.

### **AVK Malaysia and ORBINOX: Unlocking Potential in Gold Mine Valve Solutions**

In February of this year, AVK Malaysia conducted a visit to Selinsing gold mine, accompanied by Mr. Ricardo and Asier from ORBINOX. The purpose of the visit was to analyze and review the valves currently being used at Selinsing. During the visit, it is convinced that ORBINOX's high quality product solutions, in particular the knife gate valve, can provide a longer operational life for their system, with minimal system shutdowns and lower operational costs overall.

Mr. Muhd Syazly Bin Yusuf, the Maintenance Superintendent of Selinsing, guided our team through the current operational setup. This given opportunity allowed us to introduce ORBINOX's comprehensive range of slurry knife gate valves and penstocks for the mining industry. These valves have garnered a reputation for excellent performance and minimal maintenance downtime in the most demanding mining applications worldwide.

Overall, the visit proved valuable in commercial potential for AVK Malaysia and insight into the mining segment in the country.

Written by  
**Rachel Lim**  
Regional Marketing Manager, AVK SEA





# STRENGTHENS PRESENCE IN THE APAC REGION

In order to support partners and customers locally, InterApp has opened an InterApp Sales Organisation in Shanghai, China, last October. It has set a significant milestone in InterApp's history. With a dedicated and experienced team, the company is moving closer to its local customers in the APAC region, all with the aim to better serve their needs and provide short response.



**GLOBALLY LOCAL**  
As a company with a proven track record of manufacturing high-quality valve solutions and distributing them worldwide, we are committed to supporting our partners, anywhere at any time. This is our group strategy and we call it "Globally local".

## Local Commitment

China and the APAC region represent an important market for InterApp. Its industrial valve solutions are used in a variety of applications and industries such as semiconductor industry, chemical processes, mining, or water treatment in general to state just a few. Those segments, especially semiconductor, are growing at a very fast pace in Mainland China and Southeast Asia and it is strategically important for InterApp to be locally presented to catch this fast train.

In the meantime, InterApp and AVK Anhui have setup a production facility with clean room, to produce the Desponia butterfly valve locally to increase competitiveness and availability that are the two most important points for customers in this region. It also allows taking local suppliers and resources into consideration and to reduce the carbon footprint associated with transportation.

InterApp has audited and approved the production facility since beginning of March 2023, and is now able to deliver local produced Desponia and actuators up to DN400 and with more options to come in near future. The multi-purpose, elastomer-lined butterfly valve Desponia, is an essential component in many industrial and infrastructure projects.



The decision to open a sales office in Shanghai, right next to Shanghai Hongqiao transportation HUB was a natural choice, as Shanghai is close to AVK Anhui, the largest port city in the world with great local government support encouraging offshore trade and export and relatively easy access to Southeast Asia. All this enables InterApp China to be fully equipped to serve local customers with ease. Thanks to a dedicated team around Lei Dai, Managing Director InterApp China, who has already proven track records in the valve industry and many years of experience with InterApp products, customers can lean on the team's comprehensive and professional technical support.

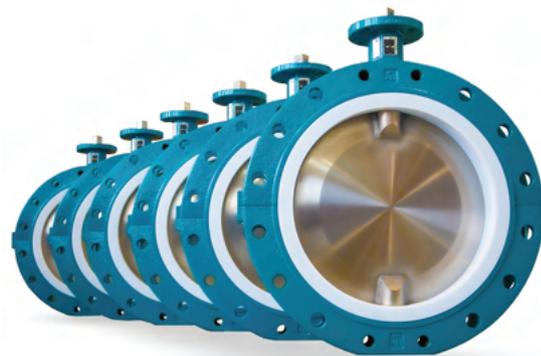
### Valve Solutions For Demanding Markets

Chemical processes represent an important market segment. To safely handle corrosive media, InterApp offers a wide range of disc and liner materials that can be ideally combined to resist the media in use. For specific applications, special executions are developed, such as a special Bianca butterfly valve with titanium degree 7 disc, ductile iron body, PTFE or Ultraflon liner with FPM backliners and actuators of stainless steel to ensure safe chloride processes in the production of PVC plastic granulate.

For the semiconductor industry, InterApp offers high-purity and grease-free valves. Whether for ultrapure water, wastewater, reclaimed water, CMP (chemical mechanical planarization) or copper removal solutions, they ensure maximum safety and fault free products.

An experienced team is happy to assist you to find the best process-specific solution for your specific application.

**We are there for you.**



Get in touch with AVK sales representative in your area to explore how InterApp can become your perfect valve solution partner.

Written by

**Lei Dai**, Managing Director, InterApp China; **Sabine Fanger**, Marketing, InterApp AG

**InterApp is a dedicated member of the AVK Group, headquartered in Rotkreuz, Switzerland.**



**ORBINOX**

# FOOTPRINT AND SUCCESS IN SOUTHEAST ASIA REGION



ORBINOX is present in more than 70 countries across five continents, with over 50 years of experience designing, manufacturing, and marketing knife gate valves, penstocks, dampers and valves for hydraulic works. Product quality and customer satisfaction is ORBINOX's utmost goal. The organization has a highly qualified and experienced team providing the best solutions to suit the needs of its customers.

ORBINOX's footprint in Southeast Asia was long established, particularly in the dams and reservoirs segment. The latest commercial success being our bonneted gate valve installed at The Angat Dam, Philippines.

### **AVK Philippines Secures Manila's Water Supply at Angat Dam**

To help secure the water supply of Manila's metropolitan area, a rehabilitation and maintenance project was

initiated for the complete dam system. AVK Philippines supplied a DN1400, PN16, coupled with Auma electric actuator BU bonneted gate accompanied by a set of gate valves to the project. The Angat Dam is a hydro-electric reservoir embankment dam located in Bulacan in the north of The Philippines.

The dam serves potable water to millions of families in Manila and other

nearby provinces through the utilities of Manila Water and Maynilad, with approximately 130 meters high and impounds water from the Angat River that has subsequently created the Angat Lake.

To ensure continuous and sustainable water supply to the area, The National Power Corporation (NAPOCOR) implemented a rehabilitation plan that involved replacing the dam's electric turbine, requiring a temporary shutdown for maintenance. J.K Builders Inc., a construction company based in Quezon City with expertise in dam projects, was responsible for the installation and collaborated with AVK Philippines, providing them with the necessary specifications.

#### **ORBINOX's BU Bonneted Gate Valve Shines at Angat Dam**

The BU bonneted gate valve from ORBINOX was identified as the perfect solution for the specifications. In July 2022, a Factory Acceptance Test (FAT) was carried out in Spain before the valve was shipped to the site in the Philippines.

Despite the ongoing activities at the Angat Dam, careful measures were implemented to ensure that the services providing steady water supply to the many people relying on it remained unaffected. Currently, the gate and accompanying gate valves are fully operational at the Angat Dam, functioning beautifully.

We have got Mr. Emelson Retual, engineer whom AVK Philippines coordinated with on this project, convinced and affirmed AVK's commitment and extensive product solution which makes the project feasible.



Contact your local AVK sales representative, or PT Mitra Wira Pratama if you are from Indonesia, to determine why ORBINOX is the ideal selection for your project.

Written by

**Alyssa Joy Reyes**, Marketing, AVK Philippines

**Maitane Escudero**, Communication Manager, Orbinox Valves International

**ORBINOX is a dedicated member of the AVK Group, headquartered in Gipuzkoa, Spain.**



# YOUR EXPERT PARTNER FOR KNIFE GATE VALVES

With over three decades of experience, CYL stands as a global leader in providing tailor-made technical solutions for knife gate valves. Our extensive network of agents and distributors reaches across 50 countries, ensuring our products are accessible worldwide.

## **CYL Valves: Advancing Technology, Tailored Solutions**

At CYL, we pride ourselves on our commitment to constantly advancing technology, powered by a highly qualified and adaptable team. This enables us to offer the latest

comprehensive solutions, perfectly tailored to meet any valve requirement. Products quality and service excellency is not a condition but the ultimate goal. Whether you seek a valve to new application, specialized valve's combination, unique materials, or re-conditioning from existing valves, CYL Valves can be fully customized to suit your needs.

Join over 3,000 satisfied customers who have successfully completed projects in a wide range of applications, including:

- Water and wastewater treatment plants
- Oil rigs
- Fish handling facilities
- Mining plants
- Pulp & paper industry
- Chemical plants
- Biogas facilities
- Food & beverage processing

Choose CYL Valves for expertise, innovation, and reliable solutions that make a difference. Contact us today to discuss your specific valve requirements!





To find out more, please reach out to AVK sales representative in your local region for how CYL could be your ideal valve solution partner.

Written by

**Lourdes Cibrián,**

Commercial Department

CYL Knife Gate Valves S.L.

**CYL is a dedicated member of the AVK Group, headquartered in Hernani, Spain.**





# UNLOCKING DECADES OF EXCELLENCE JOURNEY IN SOUTHEAST ASIA

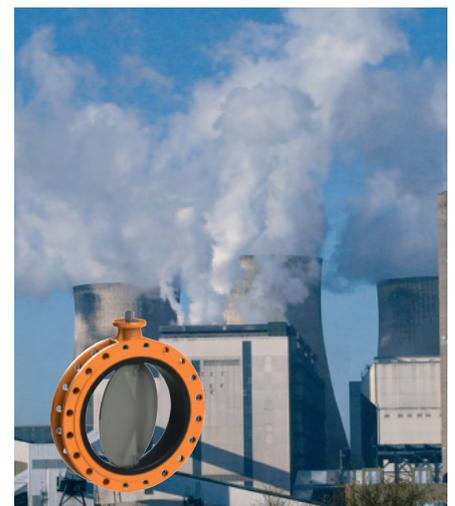
## Unlocking Decades of Excellence: Wouter Witzel Journey in South-east Asia.

Manufacturers of butterfly valves are spread across the globe. However, those with over five decades of experience and expertise are few and far from between. Wouter Witzel is one of them. Since 1966, Wouter Witzel has gained international recognition for our industrial butterfly valves and actuators.

As a Dutch manufacturer of butterfly valves and actuators, we offers an extensive range of standard products. Additionally, our role as producer enables us to cater to specific customer requirements, offering tailored solutions and improvements for the diverse valve applications used in various markets.

### Wouter Witzel: Your Partner for Complex Valve Projects

Wouter Witzel is an organization proficient in handling large and complex projects. We offer multiple options to supply the complete package of valves needed for your installations. Our wealth of experience allows us to provide extensive advice in the areas of process and valve automation as well.



Like no other, our team of skilled engineers in the Netherlands are capable of devising necessary designs. As a manufacturer, we ensure every product design is executed to the highest standards. Our accumulated expertise makes us the ideal partner

for those seeking beyond just a quality product.

Dedicated to excellence, Wouter Witzel guarantees state-of-art-engineering, competitive pricing and global service and support. Our valves can be found

in nearly every country in the world within a variety of markets and in a multitude of applications.

In the South East Asia region, we focus primarily on the following segments where we have already established a proven footprint:

- 1) Energy; Valves in Power Stations (Malaysia, Vietnam, Indonesia)
- 2) Oil & Gas; Valves for Cooling Water, Process water in refineries (Vietnam, Indonesia, Singapore, Brunei)
- 3) Water segment; KIWA, WRAS and Kitemark approved Valves for Water-treatment, transmission, pumping stations and reservoirs (Singapore, Malaysia, Vietnam, Sri Lanka, Cambodia, Indonesia)
- 4) Firefighting; FM and Shell approved Valves (Thailand, Brunei, Singapore)
- 5) Desalination; Valves from inlet, RO systems to pumping rooms and reservoirs
- 6) Mining; Valves for cooling, water treatment, bleaching

AVK sales representative from the local region, together with Mr. Marco Scheffer, APAC representative of Wouter Witzel, along our dedicated support team from The Netherlands, form the backbone of our commitment to delivering "fit for use" valve solutions.

Expect nothing less than top-notch quality products and services, geared to minimize your cost of ownership – **that's our unwavering promise.**



#### **EV/ EV-I range**

The unique bonded lining concept and profiled sealing design have improved the functional performance to a very high level.

Long application experiences, continuous material research and innovation of efficient manufacturing technologies have resulted in an up-to date product range.

Designed in accordance with the latest international standards, our butterfly valves also meet environmental requirements. For many years our centric rubber lined butterfly valves have replaced conventional double eccentric valves or ball valves.



#### **Dynaxe High Performance Valve**

The Dynaxe range was developed to set a new standard for double-offset heavy duty butterfly valves. This specific product is the result of an integrated design approach which gives the valve a very high performance level, with a multitude of special features complementing each other.

Special emphasis is paid to create a flexible product to meet customers specific requirements. The resulting technical and economical advantages of the precise and proven Dynaxe technology have led to an improved life cycle as well as higher productivity and security. In other words, guaranteed customer satisfaction.

Dynaxe excels in all markets where the scene is set by high pressure, heavy conditions or dangerous currents.



#### **Econaxe High Performance Valve**

The new double eccentric high performance butterfly valve: Econaxe, was launched in 2014.

It is a new range of double-offset butterfly valves for typical applications in e.g. the shipbuilding industry. The design is economical, sustainable and robust with optimised functionality in the applicable market.

Special emphasis was put on a flexible product design enabling an exact finishing according to customer specifications. The resulting technical and economic advantages of the design and proven technology have led to an improved life cycle as well as high productivity and security



#### **Euro Check Valve**

The Eurocheck Valve is compact and space saving and is a maintenance free self acting pivoting check valve of the double disc wafer type. Special design features and carefully selected materials combine to make the Eurocheck a very reliable product at low operating costs.

Eurocheck valves are mainly used in (sea)water applications. Maintenance costs are low to nil and pressure loss has been reduced to an absolute minimum.

**NEW PRODUCT**

Wouter Witzel introduces  
**EV-i SERIES**

**CENTRIC RUBBERLINED BUTTERFLY VALVE RE-DESIGN EV-SERIES**

ISO 5211 Actuator mounting pad

ISO / API compliant applications

Hexagon Disc shaft connection

**5 YEARS WARRANTY**

- Vulcanized elastomer seat
- Vacuum proof
- Low operation torque
- High frequency of operation

always there when you need us!

**WOUTER WITZEL**  
VALVE TECHNOLOGY

**Advantages**

- Improved sealing
- Lower torque
- Integrated Flange Gasket
- Many trim options
- High frequency operation
- Suitable for vacuum application and control duty

**NEW PRODUCT**

**DEWATERING BUTTERFLY VALVE**

Use for end of line/back and service. Full pressure rated

Minimum to no disc protrusion

Wouter Witzel quality/warranty

Up to 10bar fully rated (higher pressure ratings on request)

Duplex Stainless Steel disc

NBR or EPDM liner

DN	PN1	A	B	C	D	E	F	G	H	I	J	K	L	M	N	PN2
50	2"	100	100	43	106	12	34	10	PF07	70	90	9	A	1	1	100
65	2 1/2"	140	130	70	136	12	34	10	PF07	70	90	9	A	1	1	100
80	3"	160	160	70	153	12	34	10	PF07	70	90	9	A	1	1	100
100	4"	200	180	100	187	12	34	10	PF07	70	90	9	A	1	1	200
125	5"	220	200	100	190	12	34	10	PF07	70	90	9	A	1	1	200
150	6"	260	230	100	200	14	34	16	PF07	70	90	9	A	1	1	200
200	8"	320	270	100	224	14	34	16	PF07	70	90	9	A	1	1	400
250	10"	350	290	100	240	16	40	24	PF07	80	100	12	A	1	1	400
300	12"	400	320	210	270	16	40	24	PF07	80	100	12	A	1	1	400
350	14"	450	350	230	290	16	40	24	PF07	80	100	12	A	1	1	400
400	16"	500	380	250	320	20	50	30	PF07	100	120	15	A	1	1	600
450	18"	550	420	270	350	20	50	30	PF07	100	120	15	A	1	1	600
500	20"	600	450	290	380	20	50	30	PF07	100	120	15	A	1	1	600
600	24"	700	500	320	420	25	60	36	PF07	120	150	18	A	1	1	800

always there when you need us!

**WOUTER WITZEL**  
VALVE TECHNOLOGY

Wouter Witzel is proud to announce the release of the new Dewatering Butterfly Valve into the Mining segment.

Our dewatering butterfly valve is specifically designed for installation into Polypipe systems and eliminates the requirement for spacers or modifications to the ID of the pipe.

The ultimate feature of our dewatering butterfly valve is the disc, when in open position, does not protrude outside the valve body dimensions or into the pipe.

Other features are a vulcanized seat bonded to the body, a disc in Duplex Stainless Steel and external body coating in Epoxy for excellent durability. Low operating torques ensures ease of operation and provides 100% tight shut off.

This butterfly valve is fully re-useable and comes standard with a 5 year warranty.

AVK sales representative from the local region, together with Mr. Marco Scheffer, APAC representative of Wouter Witzel, along our dedicated support team from The Netherlands, form the backbone of our commitment to delivering "fit for use" valve solutions. Expect nothing less than top-notch quality products and services, geared to minimize your cost of ownership – that's our unwavering promise.

Written by

**Marco Scheffer**, APAC, Wouter Witzel EuroValve B.V.

**Wouter Witzel is a dedicated member of the AVK Group, headquartered in Losser, The Netherlands.**

*always there when you need us!*

COME VISIT US!

# AVK SOUTHEAST ASIA EXHIBITION

Country	Exhibition	Date	Segment	Region	Audience
	<a href="#"><u>Vietnam Water Week 2023</u></a>	28 - 30 September, 2023	Water, Wastewater	WTC Expo, Binh Duong	Government agencies, international organiza- tions, Vietnamese and foreign experts, industry business leaders
	<a href="#"><u>Philippine Water Works International Conference and Exhibition (PWWA)</u></a>	4 - 6 October, 2023	Water, Wastewater	Henann Convention Center, Panglao Bohol	Water districts, consultants contractors, engineers, environmentalist
	<a href="#"><u>Philippine Machinery Exhibition (PHIMACH)</u></a>	12 - 14 October, 2023	HVAC, Industrial, Water, Wastewater	SMX Convention Center, MOA, Pasay	End-user, engineers, consultants contractors, industry business leaders
	<a href="#"><u>AsiaWater 2024</u></a>	23 - 25 April, 2024	Water, Wastewater	Kuala Lumpur Convention Centre, Malaysia	Water authorities, consultants, engineers, contractors, environmentalist
	<a href="#"><u>Singapore International Water Week (SIWW)</u></a>	19 - 21 June, 2024	Water, Wastewater	Sands Expo & Convention Centre, Singapore	Water authorities, consultants, engineers, contractors, environmentalist



# AVK PHILIPPINES DEBUTED WATER PHILIPPINES AND PHIL ENERGY EXPOSITION 2023

# PHILIPPINES

## **AVK Philippines at the 6th Water Philippines Exposition - The countries Leading International Water Supply, Sanitation, Industrial Wastewater Treatment and Purification event.**

This year, AVK Philippines participated in the Water Philippines and Phil Energy Exposition at SMX Convention Centre Pasay City, Metro Manila, from March 22 to 24. The event, supported by the Philippine Water Works Association with theme "Securing Water Access Through Partnership Towards More Resilient Water Services," featured over 300 local and international brands showcasing their technologies and expertise. The 3-day event attracted more than 10,000 decision-makers, water professionals, and business traders from the water and wastewater industry.

### **AVK Philippines Debut: Showcasing Excellence in Water Solutions**

AVK Philippines made its debut at this prestigious business hotspot for the water and wastewater industry in the country and region. This event provided us with an excellent opportunity to showcase AVK's top-notch valves and technology solutions across various business segments, including Water,



Wastewater, Fire Protection, Building Services, and Industry.

The booth was led by Brian Hansen, General Manager of AVK Philippines, along with the sales team incl. Alexander Bangkok, Product Manager, Art Mislang, Sales Manager, France Posadas, Sales Engineer for Water, Mark Veluz, Sales Engineer for Industry and Totie Giangan, Sales Engineer for HVAC. This event received invaluable support also from Rachel Lim, AVK SEA Marketing Manager.

AVK Philippines had another first by conducting a technical seminar led by

Mr. Shaun Robb from Fusion Plast Australia. During the seminar, he highlighted Fusion's pioneering role in designing and production of PE ball valves, electrofusion fittings and related products and services. He discussed how Fusion develops innovative solutions that effectively address leaks in polyethylene pipe joints, particularly by Fusamatic electrofusion fittings and electrofusion welding machines for pressure pipe applications. These solutions will be valuable in addressing the country's common water system challenges.

As a participant, we gain valuable

insights into the nation's current water resource challenges. Our dedication lies in establishing strong relationships with individuals in the sector, enabling us to offer AVK's solutions, especially in water management and infrastructure. Our aim is to inform decision-makers about the technology we possess and how it can assist in providing clean water to the people and nation.

As a company committed to developing products for vital infrastructure that fosters sustainable development and a better environment, we are inspired by the President's words on overcoming water challenges. **"We really need to work together on this, it will not be the work of a day, or of a week but we will start now, and we will continue until it's done".**

Written by  
**Alyssa Joy Reyes**  
Marketing, AVK Philippines





# SMART, COMPLETE, FUNCTIONAL AVK FUSION DISTRIBUTOR CONFERENCE INDONESIA



## Smart, Complete, Functional: Igniting Partnerships at AVK Fusion Distributor Conference 2023.

On the 24th and 25th of May 2023, Jakarta became the epicenter of business synergy as AVK Fusion Indonesia hosted its biennial Distributor Conference. This exclusive event drew partners from Indonesia and Timor Leste, united to strengthen ties, align strategies, and achieve new heights.

Under the theme "Smart, Complete, Functional," (Pintar, Lengkap, Fungsional in Bahasa) the conference took place at AVK Fusion Indonesia office, setting a dynamic backdrop for focused discussions and strategic planning. The event aimed to solidify partnerships, introduce new products, and steer participants toward a shared trajectory.



**Day 1: Building Resilient Foundations**

The conference commenced with an insightful business overview, laying the strategic blueprint moving forward. Integral to our growth, the presentation encapsulated our shared journey, underscoring the importance of collaboration. The session then moved into operational key performance indicators (KPIs), offering partners measures and insights that propelled the organization forward.

The highlight of the day was the much-anticipated product launch as we unveiled the Pressure Management Device (PMD), the Single Chamber Air Valve, and Series 36/80 Gate Valve with PE End. These cutting-edge solutions echoed our commitment to pushing boundaries and responding to market demands.

In line with the conference's vision of collective growth, a training plan was outlined, aimed to empower our partners with tools and knowledge to navigate the evolving industry, strengthening our capabilities as

strategic allies.

**Day 2: Navigating Finance and Expansion**

The second day commenced with spotlight on our financial landscape that not only reinforced our stability but also distinctive roadmap for continued growth. Deep dive into AVK's diversified business segments followed, outlining our business framework and ambition of AVK Group with local focus and expertise.

Throughout both days, passionate discussions, games, and cross-functional engagement fostered understanding of our collective goals.

**Forward Momentum**

As the curtains drew on the AVK Fusion Distributor Conference 2023, partners departed not only with new connections and insights but also a shared strategic path forward.

Amidst the urban backdrop of Jakarta, business dynamics had been reshaped, leaving an indelible mark on collaborative excellence in the water and wastewater solutions sector.

Written by  
**Rachel Lim**  
Regional Marketing Manager, AVK SEA





# IWWEF 2023, JAKARTA

## PROUD SPONSOR, PARTNER AND EXHIBITOR

# INDONESIA

**AVK Fusion Indonesia was proud sponsor, partner and exhibitor at Indonesia Water and Wastewater Expo & Forum held at the Bidakara Hotel, Jakarta. June 6 - 8, 2023.**

The Indonesia Water and Wastewater Expo and Forum (IWWEF) is a biennial event meticulously organized by PERPAMSI. In the year 2023, IWWEF celebrated its 9th iteration. This event holds immense prestige within the industry, serving as a beacon for innovation and an influential forum for the exchange of ideas.

Irvan Hasudungan, Sales Manager of Water Supply and Wastewater, received an exclusive invitation to contribute as a speaker during a seminar session at IWWEF. Accompanied by Rodji, Sales Engineer from Water segment and Ananda, Technical Service Engineer, Irvan shared invaluable insights into the transformative impact of intelligent control valves on smart water networks. The occasion offered AVK Fusion an ideal platform to launch the pressure management device (PMD), which received enthusiastic reception from the audience.

Positioned prominently at the grand ballroom's main entrance, AVK Fusion



Indonesia's booth featured both AVK and Fusion product innovations. Two standout stars of the booth were the new PMD (Product Management Device) and AVK repair clamp, both captured significant attention from visitors.

During the three-day exhibition, our booth saw an impressive attendance of over 5,000 visitors. Among this distinguished crowd, we were privileged to host a notable guest, M Nor Muhlas, President Director of PDAM Malang, Tugu Tirta. Under his remarkable leadership, PDAM Malang has garnered multiple awards and gained recognition as a benchmark for all PDAMs in Indonesia.

Mr. Muhlas specifically sought out our booth. Impressed by superior quality of AVK's products, he holds firm belief that AVK is the optimal choice for upcoming projects in Malang. This underscores trust and reputation AVK's products have earned within the industry.

We were also honored by the presence of colleagues from AVK Anhui. Under the leadership of Mr. Tao, the General Manager, the team included Mr. Will Zhao, the Product Management Manager, alongside Mr. Chen Rui and Ms. Chery Zhao.

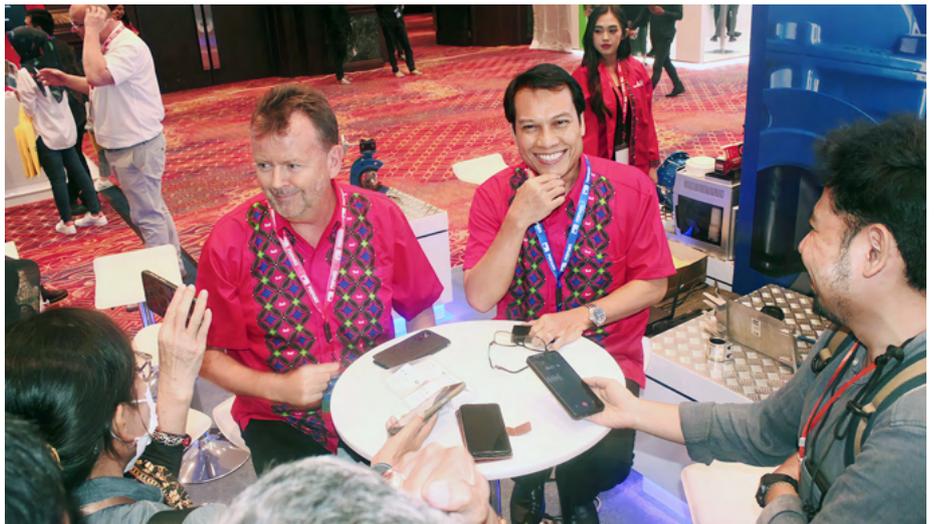
AVK Fusion Indonesia received warm reception from the media, incl. print

media, online and news. Mr. Gert, President Director of AVK Fusion Indonesia, spoke on behalf of the company. Notably, we were honored to given the opportunity to welcome visitors of the exhibition with AVK and Fusion's showbus parked and loaded with our solutions at the hotel's lobby.

Written by

**Rachel Lim**

Regional Marketing Manager, AVK SEA





**REACH US!**



**AVK FUSION INDONESIA**



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Kota Tangerang, Selatan  
Banten 15314, Indonesia



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West Triangle  
1104, Philippines



**AVK SINGAPORE PTE. LTD.**



40 Gambas Cres  
Nordcom II  
757018, Singapore



**AVK VIETNAM CO. LTD.**



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Khu dân cu Trung Son,  
Bình Chánh  
Thành pho Ho Chí Minh, Vietnam



**AVK VALVES MANUFACTURING MALAYSIA SDN BHD**



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**EXPORTING COUNTRIES**



**NEXT EDITION SNEAK PEEK!**



# HVAC BUILDING SERVICE

## ENHANCING INDOOR AIR QUALITY AND THERMAL COMFORT



**HVAC, which stands for Heating, Ventilation, and Air Conditioning, plays a crucial role in ensuring thermal comfort and maintaining satisfactory indoor air quality. At AVK Group of companies, we offer comprehensive valves and actuators selection for various automated systems, tailored for building services.**

Our state-of-the-art technologies serve a broad spectrum of applications, including heating, cooling water, drinking water, swimming pools and more. Modern buildings require sophisticated technical installations for various water systems, including drinking water, wastewater and even seawater. AVK offers comprehensive solutions that cater to the cooling and heating requirements of spas, swimming pools, aquariums, and waterborne systems.

Our systems are designed for indoor use, placing a strong emphasis on user safety, operational efficiency, low noise

levels, longevity and ease of installation. With a dedicated focus on meeting the unique requirements of each project, we ensure that our HVAC solutions align perfectly with your needs.

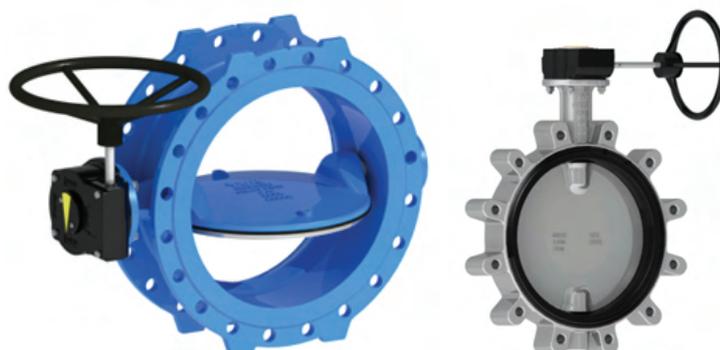
In the upcoming edition, we will delve into business cases and commercial success across industries and application including data centers, semiconductor industry and more. Highlighting how AVK's HVAC Building Service solutions can deliver significant value to the projects in your region.

**We intend to provide you with an overview of AVK's project portfolio within the region, along with a comprehensive array of affordable high quality product innovations customized for this segment.**

**Furthermore, we are excited to highlight AVK's expanded valve production capabilities, for even bigger valve! from our manufacturing facilities.**

Written by

**John Huang**, General Sales Manager, Building Service, AVK SEA



**NEXT EDITION SNEAK PEEK!**



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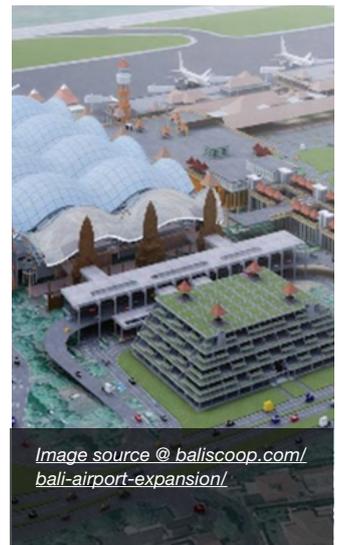
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