

# HIPPOVALVE INSTALLED BASE REFERENCES

2023 Jun

**Narcisse Kam**  
Sales Manager

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# ANALYST PROFILE



*"Accredited with over a decade experience in global solution in fast-paced industrial world. Handling global projects and delivering value, consistency in alignment with highly demanding applications."*

## Member at PMI® | Project Management | Expansion Strategist | Consulting

Narcisse converted years of expertise in critical application in pumping industry to implement a proactive and dynamically integrated business model with customized solution package in industrial fluid control field; Advised companies on innovative approach to maintain a minimal Total Cost of Ownership via comprehensive sourcing channel; Partnered with major stakeholders to provided cross-industry service in projects in Europe, Middle-East, Asia, and Africa.

### Narcisse Kam

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### Experience

HIPPO Valve  
- Project Manager  
- Field Application Consultant  
  
HCP Pump Co., Ltd.  
- Account Manager  
- Field Application Consultant

### Education

MBA, Economics  
National Chung Hsing University

### Realizations included:

- **SOREK SWRO Desalination Plant**, Tel-A-Viv, Israel Project – Supply scope and maintenance planning
- **CTCI Corporation** - 150 KTPA Carbon Black Plant, India – Expertise in ISBL critical process for power generation
- **SISHEN Mine South Africa**, Underground cavity dewatering – Supply scope and Technical solution consulting
- **BOLLORE Ports Africa**, Dry port Inland Container Depots (ICD) - Terminal infrastructure Maintenance, Repair, Overhaul (MRO)

Now, Narcisse focuses on implementing **Integrated Business solution in industrial valves application**

- Capitalizing on cross-industry expertise (pumping and valves) to delivery smart solution to complex project execution
- Offering a new Frontier of expertise in High-Performance Valve application

### Service delivered:



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# **1. POWER AND ENERGY**

## **Refinery / Power / Steel Industry**



## LOY YANG POWER STATION PROJECT - VICTORIA, AUSTRALIA



### Model V1100

#### Valve Type

- HIPPO Model V1100 (DN65-DN300)
- High Performance Butterfly Valve

#### CONTROL TYPE

- Control Pneumatic
- Declutchable Gear Operated

#### CONFIGURATION

- ANSI 150LB WAFER
- BODY: A351 Gr. CF8M
- DISC: A351 Gr. CF8M
- STEM: A182 Gr. F316
- SEAT: TFM

#### BACKGROUND

The Loy Yang Power Station, a subsidiary of AGL energy, is a brown coal-fired thermal power plant located on the outskirts of the city of Traralgon, in south-eastern Victoria, Australia. It consists of two sections, known as Loy Yang A (4 units) and Loy Yang B (2 units). Combined together (Loy Yang A and B), are the largest power station in Australia, generating 3280 MW - equivalent to about 50% of Victoria's electricity requirements.

Balcombe Engineering Pty Ltd (leading Australian specialist in the flange and piping industry) was tasked with implementing the deluge valve project of the plant;

HIPPOVALE successfully delivered a practical alternative to a complex system of Control High Performance Butterfly to meet the requirement of plant operation.



#### SITE INFORMATION

**Site:** Loy Yang

**Location:** Victoria, Australia

**Application:** Power

**Process:** Process water

## EXECUTION RESULTS AND BENEFITS

#### Expectation & Satisfaction

- The success of this project reveals the importance of sourcing the right supplier
- Improved Productivity

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BY OUR  
PARTNER





## TAIWAN POWER COMPANY



# HIPPO PROJECT REPORT – LINKOU POWER PLANT



### HIPPO V1100

#### Item

HIPPO Model V1100 (DN150)  
Resilient seated High Performance BV

#### Body Material

A351 Gr. CF8M

#### Disc Material

A351 Gr. CF8M Hard Chrome plated

#### Stem Material

A 564 Gr.630 (17-4PH) Chrome plated

#### Seat Material

PTFE

#### TAIWAN POWER COMPANY IN BRIEF

Taipower is closely associated with the lives of Taiwan's 23 million people. The company is a cornerstone of modern life and a driver of economic development as both traditional and emerging high-tech industries are reliant on electricity. The company's transmission and distribution network can be accessed in every corner of Taiwan.

#### PLANT BACKGROUND

Linkou Thermal Power Plant is located at the industrial area of Linkou District, New Taipei City. The original power station was 600 MW (2 X 300 MW) and is currently undergoing retrofitting to increase power generation capacity to 2.4 GW. In 2002, Mitsubishi Heavy Industries and CTCI Corporation were contracted by Taipower for the plant upgrade, hence HIPPOVALVE as awarded supplier for High Performance Butterfly valves package



#### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Power

**Site:** Linkou Power Plan

#### TECHNICAL SPECIFICATION

**Process:** Process gas

**Fluid:** Gas

**Pressure ratings:** 12Kpa.g

**Temperature range:** 60 °C

**Quantity:** 15 Pieces

## EXECUTION RESULTS AND BENEFITS

Diaphragm pneumatic control set

- Bi-Directional / Zero-Leakage Tight Shutoff
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

# TAIWAN POWER COMPANY

**HIPPO VALVE®**



Taiwan Power  
Company

## **HIPPO PROJECT REPORT – TPC 2600MW Taichung CCPP Project**



### TAIWAN POWER COMPANY IN BRIEF

Taipower is closely associated with the lives of Taiwan's 23 million people. The company is a cornerstone of modern life and a driver of economic development as both traditional and emerging high-tech industries are reliant on electricity. The company's transmission and distribution network can be accessed in every corner of Taiwan.

### POWER PLANT BACKGROUND

Taichung Power Plant is a coal-fired power plant in Longjing, Taichung, Taiwan. With an installed coal-fired generation capacity of 5,500 MW, it is the fourth largest coal-fired power station in the world. Together with its gas-fired and wind generation units, the total installed capacity of the plant is 5,824 MW.



### HIPPO V1500

#### Item

HIPPO V1500 (DN150-300)  
Soft-seat High Performance BV

#### Body Material

A351 Gr. CF3M / A216 Gr. WCB

#### Disc Material

A351 Gr. CF3M / A351 Gr. CF8

#### Stem Material

A182 Gr. F316L / A182 Gr. F304

#### Seat Material

PTFE Soft Seat

### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Power

**Site:** Taichung Power Plant

### TECHNICAL SPECIFICATION

**Process:** Combined cycle generator

**Fluid:** Seawater, Treated Water

**Pressure ratings:** 3Bar

**Temperature range:** 30°C

**Quantity:** 20 Pieces

### HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**



## SUN BA II POWER PLANT PROJECT



### HIPPO V1500

#### Valve Type

- HIPPO Model V1500 (DN80-DN600)
- High Performance Butterfly Valve

#### OPERATION Type

- Manual operated (Gear/Lever)

#### Configuration

- ANSI 1500/300LB FLANGED
- BODY: A216 Gr. WCB
- DISC: A351 Gr. CF8
- STEM: A182 Gr. F304
- SEAT: TFM/PTFE

## SUN BA POWER CORPORATION



### COMPANY BRIEFING

Sun Ba Power Corporation is Taiwan based independent Power Producer Company, contractor of Taiwan Power Company (TaiPower) since 2004 via IPP agreement.

### BACKGROUND

The Sun Ba II Power Plant is a combined cycle gas turbine (ccgt) power plant located in Shanshang District, Taiwan. The power plant is currently under construction with planned power capacity of 1,100 MW; Commission is expected in 2024.

CTCI renders EPC services for the gas fired power project while SIEMENS is the supplier of turbine generators. HIPPOVALVE is awarded supply for Manual operated HP Butterfly valves for exhausting gas system.



### PROJECT SUMMARY

**Location:** Tainan, Taiwan

**Supplier:** HIPPO VALVE

**Application:** Power

**Investment:** 868 Million USD

### SITE INFORMATION

**Site:** Shanshang

**Plant capacity:** 1,100 MW

**Process:** Process gas

## EXECUTION RESULTS AND BENEFITS

#### Expectation & Satisfaction

- The success of this project reveals the importance of sourcing the right supplier
- Improved productivity

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## CPC CORPORATION



台灣中油股份有限公司  
CPC Corporation, Taiwan

# HIPPO PROJECT REPORT TAOYUAN REFINERY



## HIPPO V41MM

### Item

HIPPO V41MM (DN200)  
Metal Seat Triple-Offset BV

### Body Material

A351 Gr. CF8

### Disc Material

A351 Gr. CF8

### Stem Material

17-4PH

### Seat Material

A240 Gr. F316

### CPC CORPORATION IN BRIEF

CPC is Taiwan's state-owned oil and gas company. As an enterprise in state ownership, it is responsible not only for returning profit to the government but also for supplying sufficient energy to the domestic market. CPC's business areas include oil & gas exploration and production, refining, petrochemicals, lubricants, solvents and chemicals; it is also Taiwan's sole importer and supplier of natural gas. CPC is committed to sustainability in corporate operations, as evidenced by its membership of the World Business Council for Sustainable Development (WBCSD) since 2006.

### PROJECT BACKGROUND

Before switching to HIPPO, CPC is using hefty and expensive globe valve which has short life cycle issue caused by high velocity flow.

HIPPO V-FIN control valve not only significantly improves life cycle but also provides stable equal percentage to support precise flow control.



### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Refinery

**Site:** Taoyuan Plant

### TECHNICAL SPECIFICATION

**Fluid:** Catalyst Water

**Pressure ratings:** ANSI 150LB

**Temperature range:** 100°C

**Quantity:** 1 Piece

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

## TAIWAN POWER COMPANY

**HIPPO VALVE®**



Taiwan Power  
Company

# HIPPO PROJECT REPORT – DATAN POWER PLANT



## HIPPO V21M0

### Item

HIPPO V21M0 (DN350)  
Metal Seat High Performance BV

### Body Material

A351 Gr. CF8M

### Disc Material

A351 Gr. CF8M with Hard Chrome Plated

### Stem Material

17-4PH with Hard Chrome Plated

### Seat Material

Inconel 718

## TAIWAN POWER COMPANY IN BRIEF

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## PLANT BACKGROUND

Datan Thermal Power Plant is located at the specific industrial area of Datan Binhai, Guanyin District, Taoyuan City. It was built to meet the national economic development and relieve the power demand in the northern region. The plant is equipped with 6 combined-cycle units and 1 single-cycle unit with natural gas as the main fuel. Total installed capacity is 4,984.2MW.



## PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Power

**Site:** Datan Power Plant

## TECHNICAL SPECIFICATION

**Process:** Process Gas

**Fluid:** Gas

**Pressure ratings:** 12 Kpa.g

**Temperature range:** 300°C

**Quantity:** 8 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

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## TAIWAN POWER COMPANY



Taiwan Power  
Company

# HIPPO PROJECT REPORT – HSINTA POWER PLANT



## HIPPO V1500

### Item

HIPPO V1500 (DN300)  
Soft-seat High Performance BV

### Body Material

A351 Gr. CF3M

### Disc Material

A351 Gr. CF3M with Hard Chrome Plated

### Stem Material

A182 Gr. F316L with Hard Chrome Plated

### Seat Material

PTFE Soft Seat

## TAIWAN POWER COMPANY IN BRIEF

Taipower is closely associated with the lives of Taiwan's 23 million people. The company is a cornerstone of modern life and a driver of economic development as both traditional and emerging high-tech industries are reliant on electricity. The company's transmission and distribution network can be accessed in every corner of Taiwan.

## PROJECT BACKGROUND

GE has been selected as the successful bidder for Hsinta and Taichung combined cycle power plants initiated by Taiwan Power Company. GE will be working together with its local consortium partner, CTCI Corporation, to engineer, manufacture and commission the combined cycle blocks which are planned to begin commercial operation in phases from 2024.



GE POWER



## PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Power

**Site:** Hsinta Power Plant

## TECHNICAL SPECIFICATION

**Process:** Air Vent of Circulating

**Fluid:** Seawater

**Pressure ratings:** 4Bar

**Temperature range:** 60°C

**Quantity:** 15 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

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## HENGYUAN REFINING COMPANY BERHAD



# HIPPO PROJECT REPORT – HRC CAR PROJECT



### HIPPO V14FO

#### Item

HIPPO V14FO (DN80)  
Fire-safe High Performance BV

#### Body Material

A216 Gr. WCB

#### Disc Material

A351 Gr. CF8M with Hard Chrome Plated

#### Stem Material

17-4PH with Hard Chrome Plated

#### Seat Material

PTFE and 316 S.S Fire Safe Ring

### HENGYUAN REFINING COMPANY IN BRIEF

A Hengyuan Refining Company Berhad (formerly known as Shell Refining Company (Federation of Malaya) Berhad) (HRC) was incorporated in 1960.

HRC's refining operations began in 1963 with a single crude distiller operating at a capacity of 20,000 barrels per day. Today they are able to produce up to 120,000 barrels per day following several key debottlenecking and growth investments, making us the second largest refinery in Malaysia. Operating in Port Dickson, HRC boasts a team of 500 employees comprising our own and direct contract staff excluding contractors and suppliers.



### PROJECT SUMMARY

**Location:** Port Dickson, Negeri Sembilan

**Country:** Malaysia

**Supplier:** HIPPO VALVE

**Application:** Oil Refinery

### TECHNICAL SPECIFICATION

**Process:** Flush Header for Droplet Separator

**Fluid:** Water

**Pressure ratings:** 6.51 Bar

**Temperature range:** 35°C

**Quantity:** 6 Pieces

### HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**



**CPC Corporation, Taiwan**

## TAIWAN TAOYUAN REFINERY PLANT PROJECT ANSI 600LB TOV



### COMPANY BRIEFING

China Petroleum Corporation (CPC) is a state-owned petroleum, natural gas and gasoline company established in Taiwan 1946. The combined daily refining capacity is about 600,000 barrels.

Company profile here



### BACKGROUND

CPC Corporation Oil Refinery Plant located in Taoyuan urgently needed highly reliable heavy duty Butterfly for the boiler equipment pipeline.

HIPPO High-performance Control Triple eccentric butterfly valve Type V65M0E (Fugitive Emission certified) was chosen to meet pressing need ahead of scheduled annual overhaul routine.

### HIPPO V65M0E

#### Item

- HIPPO V65M0E
- Fugitive Emission High Performance Butterfly Control Valve

#### CONTROL TYPE

- Scotch and Yoke Heavy Duty Pneumatic

#### CONFIGURATION

- ANSI 600LB DN600
- BODY: A216 Gr. WCB
- DISC: CF8M + STELLITE
- STEM: XM-19
- SEAT: A240 Gr 316

### SITE INFORMATION

**Site:** Taiwan

**Location:** Taoyuan Plant

**Application:** Refinery

**Medium:** Fuel Gas/Natural Gas

**Pressure rating:** ANSI 600LB

**Working Temperature:** 377°C



## EXECUTION RESULTS AND BENEFITS

#### Expectation & Satisfaction

- Successfully meet user urgent need
- Guaranteed Specific requirement of ISO 15848-1 certificate for Fugitive Emission

#### HIPPOVALVE:

Your TRUSTED Supplier of High Performance Valves!



# TAIWAN TAOYUAN OIL REFINERY



## HIPPO V150E

### Valve Type

- Fugitive Emission High Performance Butterfly Control Valve

### Control Type

- Spring Return Pneumatic

### Configuration

- ANSI 150LB Wafer and Double-flange
- BODY-TRIM: JIS SUS304
- Bi-directional full-rating 0 leakage
- Live-loading system



### COMPANY BRIEFING

CPC, Chinese Petroleum Corporation is a state-owned petroleum, natural gas, and gasoline company in Taiwan. As the major Taiwan's production of crude oil yields, with a combined daily refining capacity of 600,000 barrels.



### BACKGROUND

Following the short of resident land in north Taiwan, CPC Taiwan Taoyuan Refinery became stay in neighbor of Guishan living area. Continues from 2009 to 2018, several events happened, e.g. the pipeline of the second diesel hydrodesulfurization plant was damaged and burst into flames, causing no casualties; and a fuel spray accidentally spread to nearby resident houses. CPC hence highly required fugitive emission quality of its valves to prevent any volatile organic compounds leaking to nearby inhabitants.

### SITE INFORMATION

**Site:** Taoyuan Oil Plant

**Location:** Guishan distinct, Taoyuan, Taiwan.

**Application:** Refinery

**Medium:** Fuel Gas

**Working Temperature:**

70°C



## EXECUTION RESULTS AND BENEFITS

### Guard the health and safety of nearby residents and inhabitants.

- Successful secure and prevent the leaking of VOC, volatile organic compounds.

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**Your TRUSTED Supplier of High Performance Valves!**



## MARINE OFFSHORE RIGG APPLICATION



### HIPPO V13F0

#### Valve Type

- High Performance Fire-safe ON/OFF Type Butterfly Valve

#### Control Type

- Double Acting Pneumatic

#### Configuration

- ANSI 300LB DN200 LUG TYPE #RF
- BODY: A351 Gr.316
- TRIM: A564 Gr.630
- SEAT: PTFE + A351 Gr.316 Fire-safe Ring
- Bi-directional Zero-Leakage
- NACE MR 0175 Certified

## TRANSOCEAN LTD.



### COMPANY BRIEFING

Transocean and its legacy companies constitute one of the world leading offshore drilling Group of companies with operation across the globe; Transocean provides rig-based Ultra-Deepwater drilling services using most innovative and sophisticated technology.

### BACKGROUND

In partnership with Norwegian partner VALNOR SA, HIPPO VALVE supplied a package of Control type High Performance Fire-safe Butterfly valves for fluid process system in a Deepwater Rig Project commissioned by Transocean Norge.



### PROJECT SUMMARY

**Location:** Stavanger, Norway

**Supplier:** HIPPO VALVE

**Application:** Offshore drilling

**Medium:** Process water

### SITE INFORMATION

**Process:** Fluid process

**Pressure rating:** 20 bar

**Temperature:** 450°F/230 °C

## EXECUTION RESULTS AND BENEFITS

#### Operation & Production Duty

- Successful operation in Fluid process pipeline
- Achieved requirement for operation under harsh marine environment conditions

**OFFICIAL  
PARTNER**





# CONTINENTAL CARBON ECO TECHNOLOGY PVT LIMITED



## 150KTA CARBON BLACK PLANT PROJECT



### HIPPO D1500

#### Valve Type

- 1700°F High Temperature Control Type Butterfly Damper

#### Control Type

- Spring Return Pneumatic

#### Configuration

- ANSI 300LB DN1000 / DN1150 Double Flanged #FF
- BODY: A240 Gr.316 + High Temperature Refractory layer
- TRIM: A240 Gr.316
- Uni-directional 3% Rated CV

#### COMPANY BRIEFING

This project is ran by Continental Carbon Eco Technology Private Limited (CCET), a subsidiary of China Synthetic Rubber Corporation (CSRC).

#### BACKGROUND

In partnership with CINDA Engineering & Construction Pvt. Ltd., (wholly owned subsidiary of CTCI Corporation, and one of the Indian leading EPC companies in Petrochemical & Chemical industries), the consortium (CCET/CINDA) was awarded execution the 150 KTPA Carbon Black Plant located at Gujarat, India.

The proposed project is Carbon Black manufacturing unit by Thermal Cracking (pyrolysis) of highly aromatic oils and generation of energy/power as a byproduct from cogeneration plant.

HIPPOVALVE was approved for the supply of High Temperature Control Butterfly valve for exhausting waste heat from the plant piping system.



#### PROJECT SUMMARY

**Site:** 150KTA Carbon Black Plant

**Location:** GUJARAT, INDIA

**Supplier:** HIPPO VALVE

**Application:** Main ISBL –

Hot Air Venting

**Medium:** Hot Air

#### SITE INFORMATION

**Plant capacity:** 150KTA

**Energy cogeneration Capacity:** 16MW

**Process:** Waste heat recovering

**Flow Rate:** 11868/12110 (Nm<sup>3</sup>/h)

**Pressure rating:** 3.5 bar

**Temperature:** 850/900(°C)

## EXECUTION RESULTS AND BENEFITS

#### Operation & Production Duty

- Successful installation of Thermal Cracking unit
- Production of the plant is expected to meet part of the demand Carbon Black in India

**OFFICIAL  
PARTNER**





## TITANIUM VALVE – TAIWAN KAOHSIUNG STEEL PLANT PROJECT



### HIPPO V1100

#### Item

- HIPPO V1100
- High Performance TITANIUM Butterfly Valve

#### CONTROL TYPE

- Manually Operated quarter-Turn Gear

#### CONFIGURATION

- ANSI 150LB
- BODY: B381 Gr. F-2
- DISC: B381 Gr F-2
- STEM: B348 Gr.5
- SEAT: PTFE



#### COMPANY BRIEFING

China Steel Corporation (CSC) is the largest domestic steel company located in Taiwan in the southern city of Kaohsiung. The annual output is approximately 10 million metric tons of crude steel of which about 40% are exported to China, Japan, and other Southeast Asian countries.



#### BACKGROUND

In past projects, HIPPO VALVE supplied various bundle package units for various applications (ranging from PTFE liner seat type for low temperature/pressure to Metal-to-Metal seat in harsh operations environment).

In this case CSC plant located in Kaohsiung needed a supply of High performance butterfly for highly corrosive medium application.

HIPPO model V1100 TITANIUM valve NACE MR 0175 certified was selected amongst other brands as the Best choice to meet this requirement.

Since installation in November 2020, no down-time for on-site maintenance and Titanium valve perfectly sustains the corrosive environment much better compared to previously installed SS316 body valve.

#### SITE INFORMATION

**Site:** Taiwan

**Location:** Kaohsiung Plant

**Application:** Steel Industry

**Medium:** Pickling fluid process

**Pressure rating:** ANSI 150LB



## EXECUTION RESULTS AND BENEFITS

#### Expectation & Satisfaction

- **No down-time for on-site maintenance due to corrosion since installation in November 2020.**
- **Improved Productivity**

#### HIPPOVALVE:

**Your TRUSTED Supplier of High Performance Valves!**

**SUZUKI****HIPPO VALVE®**

# HIPPO PROJECT REPORT – SUZUKI PLANT-MYANMAR



## HIPPO V1100

**Item**

HIPPO V1100 (DN65-DN150)  
Soft-seat High Performance BV

**Body Material**

A351 Gr. CF8

**Disc Material**

A351 Gr. CF8 with Hard Chrome Plated

**Stem Material**

A182 Gr. F304 with Hard Chrome Plated

**Seat Material**

PTFE Soft Seat

## SUZUKI IN BRIEF

The Suzuki Group has the motto “Develop products of supervisor value by focusing on the customer” in the first paragraph of its mission statement. The group will continuously strive for manufacturing of truly valuable products and service by working on a lean and efficient sound management, under compliance and with safety and quality first.

The Suzuki Group celebrated its 100<sup>th</sup> anniversary in March 2020. Over the past 100 years, they have taken on many challenges, including looms, motorcycles, automobiles and outboard motors.

They aiming to achieve carbon neutrality under the slogan “Smaller, Fewer, Lighter, Shorter and Neater, which represents the basis of Suzuki’s manufacturing since its founding.



## PROJECT SUMMARY

**Country:** Myanmar

**Supplier:** HIPPO VALVE

**Application:** Automobile

**Site:** Yangon

## TECHNICAL SPECIFICATION

**Fluid:** Compressed air

**Pressure ratings:** 10 Bar

**Temperature range:** Ambient temperature

**Quantity:** 58 Pieces

**Special treatment:** Oil Free

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**



## CHINA STEEL AND NIPPON STEEL VIETNAM JOINT STOCK COMPANY



# HIPPO PROJECT REPORT – CSVC Project



### HIPPO C1100

#### Item

HIPPO C1100 (DN50-100)  
Rubber Seat BV

#### Body Material

A351 Gr. CF8M

#### Disc Material

A351 Gr. CF8M

#### Stem Material

A182 Gr. F316

#### Seat Material

Rubber Seat

#### PROJECT SUMMARY

**Country:** Vietnam

**Supplier:** HIPPO VALVE

**Application:** Steel

**Area:** Vungtau Province

#### TECHNICAL SPECIFICATION

**Fluid:** Raw Water, Cooling Water

**Pressure ratings:** 3-5Bar

**Temperature range:** 30-70°C

**Quantity:** 16 Pieces

There are also other shareholders such as Formosa Ha Tinh Steel Corporation in Vietnam, Nippon Steel Trading Corporation in Japan, Chun Yuan Steel Industry Co., Ltd and Hsin Kuang Steel Co., Ltd in Taiwan.



## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

## **2. (PETRO)CHEMICAL**

### **Chemical / Petrochemical Application**

## HIPPO PROJECT REPORT- AMMONIA NITROGEN PLANT



# Unimicron

### UNIMICRON IN BRIEF

Unimicron Technology Corporation (Unimicron) is a printed circuit board (PCB) manufacturer headquartered in Taiwan with manufacturing sites and/or testing centers in Germany, Japan, and China. The company was founded in 1990, grew to global rank No.6 in 2006, and became world No.1 in the PCB industry in 2009 and 2010. In 2012, Unimicron ranked No.2 position in global PCB market with a market share of 3.7% with estimated revenue of \$2.4 billion.



### HIPPO V1100

#### Item

HIPPO Model V1100 (DN350)  
Resilient seated High Performance BV

#### Body Material

A351 Gr. CF8

#### Disc Material

A351 Gr. CF8 Hard Chrome plated

#### Stem Material

A 182. Gr. Gr. F304 Chrome plated

#### Seat Material

PTFE

### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Petrochemical

**Site:** Hsinchu, Taiwan

### TECHNICAL SPECIFICATION

**Process:** Water

**Fluid:** Chiller System

**Pressure ratings:** 6Kpa.g

**Temperature range:** 10 °C

**Quantity:** 12 Pieces

### EXECUTION RESULTS AND BENEFITS

Heavy-Duty Scotch Yoke pneumatic control set

- Bi-Directional / Zero-Leakage Tight Shutoff
- Low fugitive emission/torque/noise, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**



# BRASKEM LA PORTE -TEXAS POLYPROPYLENE PLANT PROJECT



## COMPANY BRIEFING

Braskem America (Philadelphia, Pa) staged the construction of one of the world's largest polypropylene polypropylene production plants located in La Porte, Texas. The new facility has a designed production capacity of over 450,000 metric tons per year (m.t./yr) and will be operated by TotalEnergies Petrochemicals & Refining USA, Inc. (TPRI).



## BACKGROUND

The commissioning of this project was awarded to LINDE, a leading global industrial gases and engineering company.

To Overcoming multiple challenges and obstacles during COVID-19 pandemic the outbreak, Linde could count on reliable procurement network, hence HIPPO for the supply of HP Butterfly valve portfolio.

Construction began in October 2017 and since completion in June 2020, HIPPO models V45M0/V15F0 Manually operated continue to ensure sound operation of the installed process lines.

## HIPPO V45M0/V15F0

### Item

- HIPPO V45M0/V15F0
- High Performance Butterfly Valve

### CONTROL TYPE

- Manually Operated quarter-Turn Gear

### CONFIGURATION

- ANSI 150LB
- BODY: A216 Gr. WCB
- DISC: A351 Gr 316
- STEM: A182 Gr. F316 / 17-4PH
- SEAT: MPTFE + SS316 / SS316

## SITE INFORMATION

**Site:** TEXAS, USA

**Location:** LA PORTE Plant

**Application:** Petrochemical Indi

**Medium:** Pickling fluid process



## EXECUTION RESULTS AND BENEFITS

### Expectation & Satisfaction

- **No down-time for on-site maintenance due to corrosion since installation in November 2020.**

**OFFICIAL  
PARTNER**





# TAIWAN MIAOLI PVA PROCESS PLANT PROJECT



## HIPPO V1300/V1500/V4500

### Item

- HIPPO V1300/V1500/V4500
- High Performance Butterfly Valve

### CONTROL TYPE

- Manually Operation
- Automated

### CONFIGURATION

- ANSI 150LB
- BODY: CF8 / CF8M
- DISC: CF8 / CF8M
- STEM: SS304 / SS316
- SEAT: PTFE
- SIZE: DN150~DN400

## COMPANY BRIEFING

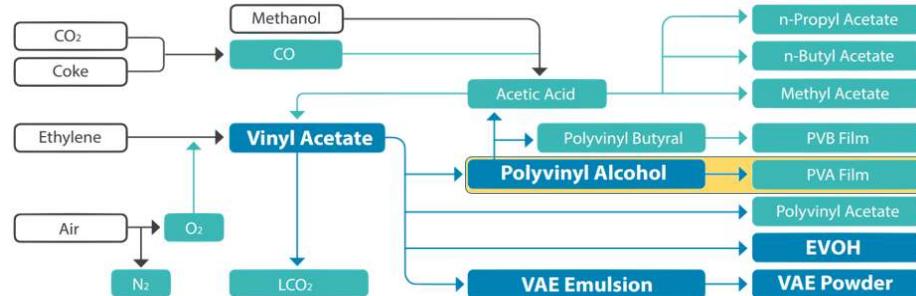
Chang Chun Group (CCP) is Taiwan second largest Petrochemical Company with a dozen of manufacturing sites across Asia-Pacific Region, including China, Singapore, Malaysia, and Indonesia.



## BACKGROUND

In application for CCP Polyvinyl alcohol (PVA) process plant located in Miaoli, HIPPO successfully installed a range of Double/Triple eccentric Butterfly Valves (V1300/V1500/ V4500) for manual and automated operation

## PVA Process Chart



## PROJECT SUMMARY

**Location:** Taiwan

**Site:** Miaoli Plant

**Application:** Petrochemical

**Process:** Polyvinyl alcohol (PVA)

**Pressure:** 5 BAR

**Temperature Range:** 40~230°C

**Quantity:** 200PCS

## EXECUTION RESULTS AND BENEFITS

### Expectation & Satisfaction

- Higher Performance Efficiency
- Improved Productivity

### HIPPOVALVE:

Your TRUSTED Supplier of High Performance Valves!



## TAIWAN MIAOLI H2O2 PROCESS PLANT PROJECT



### HIPPO V1300/V1500/V4500

#### Item

- HIPPO V1300/V1500/V4500
- High Performance Butterfly Valve

#### CONTROL TYPE

- Manually Operation
- Automated

#### CONFIGURATION

- ANSI 150LB
- BODY: CF8 / CF8M
- DISC: CF8 / CF8M
- STEM: SS304 / SS316
- SEAT: PTFE
- SIZE: DN100~DN1000

## COMPANY BRIEFING

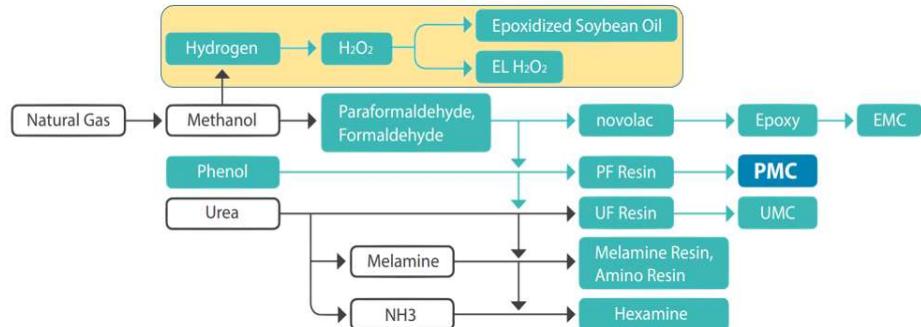
Chang Chun Group (CCP) is Taiwan second largest Petrochemical Company with a dozen of manufacturing sites across Asia-Pacific Region, including China, Singapore, Malaysia, and Indonesia.



## BACKGROUND

In application for CCP Hydrogen peroxide (H2O2) process plant located in Miaoli, HIPPO successfully installed a range Double/Triple eccentric Butterfly Valves (V1300/V1500/V4500) for manual and automated operation

## H2O2 Process Chart



## PROJECT SUMMARY

**Location:** Taiwan

**Site:** Miaoli Plant

**Application:** Petrochemical

**Process:** H2O2

**Pressure:** 5 BAR

**Temperature Range:** 40~230°C

**Quantity:** 120PCS

## EXECUTION RESULTS AND BENEFITS

### Expectation & Satisfaction

- Higher Performance Efficiency
- Improved Productivity

### HIPPOVALVE:

Your TRUSTED Supplier of High Performance Valves!



# HIPPO PROJECT REPORT – CCP MIAOLI-ORGANIC WASTE GAS PURIFICATION RECYCLE EQUIPMENT



## HIPPO V1300

### Item

HIPPO V1300 (DN150-DN600)  
Soft-seat High Performance BV

### Body Material

A351 Gr. CF8

### Disc Material

A351 Gr. CF8 with Hard Chrome Plated

### Stem Material

A182 Gr. F304 with Hard Chrome Plated

### Seat Material

RTFE Soft Seat

## CHANG CHUN PETROCHEMICAL MIAOLI



長春集團  
Chang Chun Group

### Chang Chun Group IN BRIEF

Chang Chun was founded in 1949. It is also the second largest petrochemical company in Taiwan with 34 affiliates including production bases in China, Malaysia, Indonesia and Singapore, manufacturing more than one hundred types of products covering chemical, synthetic resin, thermosetting plastics, high-performance engineering plastic, electronic materials and semiconductor chemicals. Chang Chun has made tremendous contributions in the development of the industry and has improved quality of life for many people.

### Project Background

Miaoli Plant is one of the most profitable plants for Chang Chun group. It produces TMAH, High Purity Hydrogen Peroxide, Electronic Grade N-Butyl Acetate, Copper Sulfate Solution, Developer and other products for multiple industries. They are also the main and important supplier to TSMC, the world's largest Semi Conductor company.

HIPPO butterfly valves are used for the whole plant for purification recycle equipment by providing the best quality of valves to ensure the process work smoothly.



### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Petrochemical

**Site:** Miaoli

### TECHNICAL SPECIFICATION

**Fluid:** Organic Waste Gas

**Temperature Range:** 230°C

**Pressure Rating:** 150LB

**Quantity:** 156 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**



## LUSHUN WAREHOUSE



# HIPPO PROJECT REPORT – LUSHUN WAREHOUSE



### HIPPO V1300

#### Item

HIPPO V1300 (DN150-DN500)  
Soft-seat High Performance BV

#### Body Material

A216 Gr. WCB

#### Disc Material

A351 Gr. CF8M with Hard Chrome Plated

#### Stem Material

A182 Gr. F316 with Hard Chrome Plated

#### Seat Material

PTFE Soft Seat

## 旅順倉儲股份有限公司

### Lushun Warehouse IN BRIEF

Lushun Warehouse is one of the Chang Chun Group Affiliates. Chang Chun was founded in 1949. It is also the second largest petrochemical company in Taiwan with 34 affiliates including production bases in China, Malaysia, Indonesia and Singapore, manufacturing more than one hundred types of products covering chemical, synthetic resin, thermosetting plastics, high-performance engineering plastic, electronic materials and semiconductor chemicals. Chang Chun has made tremendous contributions in the development of the industry and has improved quality of life for many people.

More than one hundred new products have been developed based on years of accumulated experiences.

#### Project Background

This project was completed at the end of 2021. It stores the products from Chang Chun Plastic Dafa factory, Changpin Factory, Mailiao Factory, Kaohsiung Factory and other Chang Chun Group affiliates and ready to sell to the market.



#### PROJECT SUMMARY

**Country:** Taiwan

**Supplier:** HIPPO VALVE

**Application:** Petrochemical

**Site:** Kaohsiung

#### TECHNICAL SPECIFICATION

**Fluid:** Phenol, Methanol, Butadiene and others

**Capacity:** 3,500-5,000 tons

**Barrel Tank:** 30+

**Quantity:** 196 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

### **3. INDUSTRIAL GAS**

**Gas storage / Process Gas Application**



# BHP BILLITON NICKEL WEST - NSK OXYGEN PLANT PROJECT



BAM O2 service (Blacklight-UV Inspection Cleaned) valve

## COMPANY BRIEFING

BHP Billiton Nickel West is one of the most prominent nickel producers in the world, located in Western Australia. The company is a leading nickel supplier to the battery metals industry with over 85% of produced Nickel sold to Global Electrical Vehicle (EV) market.



## BACKGROUND

In 2021, HATCH Ltd (top 20 International Design Firm according Engineering News-Record-ENR rankings, 2015) was engaged by BHP Billiton to service the piping system of Kalgoorlie Nickel Smelter (KNS) oxygen plant;

HIPPOVALE was selected by HATCH to deliver High Performance Butterfly Valves installed in the Oxygen Line of the Preheated Air Furnace process.

HIPPO models V11DO for Control (Pneumatic Modulating) and Manual gear operated continue to ensure sound operation of the installed process lines.

### Model V11D0

#### Valve Type

- HIPPO V11D0
- High Performance Butterfly Valve

#### CONTROL TYPE

- Control Pneumatic - Modulating
- Manual Gear Operated

#### CONFIGURATION

- ANSI 150LB WAFER DN200/50 DN
- DN200/250; DN450/500
- BODY: A351 Gr. CF8M
- DISC: A351 Gr. CF8M
- STEM: A564 Gr.630 H1150D
- SEAT: INCO718 + TFM

#### SITE CAPABILITY

**Site:** Kalgoorlie

#### TECHNICAL SPECIFICATION

**Application:** Oxygen Service

**Location:** Western Australia

**Fluid Medium:** Gas - Air

**Process:** Preheated Air Furnace

**Cleanliness:** BAM O2 service

**Investment:** 50 Million USD

(93% Purity)

## EXECUTION RESULTS AND BENEFITS

### Expectation & Satisfaction

- **No down-time for on-site maintenance due to corrosion since installation in November 2021.**

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**HATCH**



## SEMICONDUCTOR PROCESS GAS



**Model V1500**

### Valve Type

- Oil-free High Performance Eccentric Butterfly Valve

### Control Type

- Smart Positioning
- Hand-wheel

### Configuration

- JIS 20K Double-flange Short
- A351 Gr. CF8 BODY-TRIM
- TFM1600 Seat



### COMPANY BRIEFING

TSMC, Taiwan Semiconductor Manufacturing Company, Limited is a Taiwanese multinational semiconductor contract manufacturing and design company. It is the world's most valuable semiconductor company, and the world's largest dedicated independent semiconductor foundry. Its headquarters and main operations located in the Hsinchu Science Park in Hsinchu, Taiwan.

### BACKGROUND

In 2018, TSMC started to build its 18P3 plant for latest 5nm semicom wafer. Taiwan Linde Group (Linde LienHwa) takes the ownership for its nitrogen process pipe.



**THE LINDE GROUP**



### SITE CAPABILITY

**Site:** TSMC 18P3 5Nm Plant

**Location:** Tainan Science Park, Taiwan.

**Process:** 5 nm semiconductor wafer temperature control

**Investment:** 23.8 billion U.S. dollar

### TECHNICAL SPECIFICATION

**Application:** Industrial Gas

**Fluid Medium:** Nitrogen (N<sub>2</sub>)

**Rating:** JIS 20K

**Temperature:** 50°C

**Cleanliness:** Oil-and-Grease free

## EXECUTION RESULTS AND BENEFITS

**Perfect “Bi-directional 0 leakage under 15 kg/cm<sup>2</sup> Nitrogen working pressure” performance helps build high user efficiency.**

- Including installation on underground pipe

**OFFICIAL  
PARTNER**





## SEMICONDUCTOR 16A3 PROCESS GAS



**Model V1500**

### Valve Type

- Oil-free High Performance Eccentric Butterfly Valve

### Control Type

- Pneumatic control
- Hand-wheel

### Configuration

- JIS 10K Double-flange Short
- A351 Gr. CF8 BODY-TRIM
- TFM1600 Seat

### COMPANY BRIEFING

Micron Technology, Inc. is an American producer of computer memory and computer data storage including dynamic random-access memory, flash memory, and USB flash drives. It is headquartered in Boise, Idaho.

### BACKGROUND

Micron Taiwan on 2019 Aug began the construction of its A3 plant for 3<sup>rd</sup> generation 1z nm in the Houli section of the Central Taiwan Science Park in Taichung. The new plant is designed to expand the company's cleanroom capacity and upgrading its technologies. All process cooling is served by Linde group Taiwan (Linde LienHwa).



### THE LINDE GROUP



### SITE CAPABILITY

**Site:** Micron 16A3 Plant

**Location:** Taichung Science Park, Houli, Taiwan.

**Process:** 1z (10 nm) DRAM temperature control

**Investment:** 13.61 billion U.S. dollar

### TECHNICAL SPECIFICATION

**Application:** Industrial Gas

**Fluid Medium:** Nitrogen (N<sub>2</sub>)

**Rating:** JIS 10K

**Temperature:** 50°C

**Cleanliness:** Oil-and-Grease free

## EXECUTION RESULTS AND BENEFITS

**Perfect “Bi-directional 0 leakage under 15 kg/cm<sup>2</sup> Nitrogen working pressure” performance helps build high user efficiency.**

- 30mins leakage testing witness of all valves

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# GASOLINE STORAGE INSTALLATION



## COMPANY BRIEFING

Alkion Terminals is a bulk liquid tank terminal company with 10 terminals across Europe. Alkion Terminals combines the tank storage industry and hands-on operational expertise to upgrade and optimize liquid bulk terminals.

## BACKGROUND

As part of ALKION 2019 expansion plan in various location of France, an up-scaled Storage installation (for multiple isolation plants including pumping stations) was planned for construction in the petrochemical complex of Marseille.

HIPPOVALVE was approved for the supply of High performance Fire-Safe seated (Control and Gear operated) butterfly valves to reach targeted additional capacity of 100,000 m<sup>3</sup> of the Marseille terminal.



## HIPPO V31FO

### Valve Type

- Fire-safe Seated High Performance Butterfly Valve

### Control Type

- Single Acting Pneumatic
- Gear Operator

### Configuration

- ANSI 150LB DN80 / DN300 LUG
- BODY: A216 Gr.WCB
- TRIM: A351 Gr. CF8M
- Bi-directional Full-rating 0 Leakage

## PROJECT SUMMARY

**Site:** ALKION Terminals Marseille

**Location:** 13117 Lavéra, Route du Port Pétrolier, Marseille - France

**Supplier:** HIPPO VALVE

**Application:** Storage installation

**Medium:** Hydrocarbon liquid,  
Gasoline

## TECHNICAL SPECIFICATION

**Tanks capacity:** 127,000 m<sup>3</sup>

**No. of Tanks:** 98

**Process:** Filtering and blending

**Pressure rating:** 12 bar

**Temperature range:** -5°C/50°C

## EXECUTION RESULTS AND BENEFITS

### Smooth operation of Production Duty

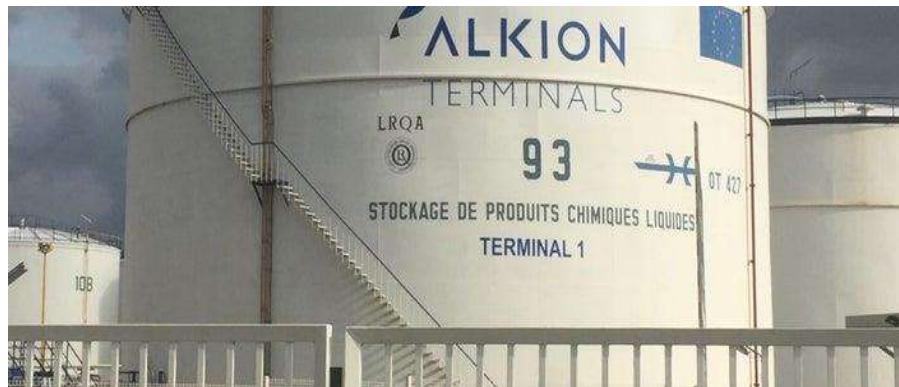
- Successful installation of piping system for isolation of Hydrocarbon Gasoline liquid
- Installation extended to pumping station facility

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# OIL-GASOLINE STORAGE TANK



## SUMMARY

As part of ALKION 2020 expansion plan in Bayonne, Le Havre, Marseille - France, following HIPPOVALVE's delivery to ALKION in 2018 and 2019. The bi-directional full-rating 0 leakage fire-safe high performance butterfly valves are delivered by HIPPOVALVE.



## HIPPO V15FO

### Valve Type

- Fire-safe Seated High Performance Butterfly Valve

### Control Type

- Single Acting Pneumatic
- Gear Operator

### Configuration

- ANSI 150LB DN80 – DN300
- BODY: A216 Gr.WCB / A351 Gr.CF8M
- TRIM: A351 Gr. CF8M
- Bi-directional Full-rating 0 Leakage

### PROJECT SUMMARY

**Site:** ALKION Terminals Bayonne, Le Havre, Marseille - France

**Supplier:** HIPPO VALVE

**Application:** Storage installation

**Delivery:** Fire safe high performance butterfly valves approx. 60 pcs.

### TECHNICAL SPECIFICATION

**Tanks capacity:** 127,000 m<sup>3</sup>

**No. of Tanks:** 98

**Process:** Filtering and blending

**Pressure rating:** 12 bar

**Temperature range:** -5°C/50°C

## EXECUTION RESULTS AND BENEFITS

### Smooth operation of Production Duty

- Successful served the application needs.
- Quick and efficient delivery to meet ALKION's schedule.

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## OIL STORAGE



### HIPPO V11FO

#### Valve Type

- Fire-safe Seated High Performance Butterfly Valve

#### Control Type

- Pneumatic Control
- Gear Operator

#### Configuration

- ANSI 150LB
- BODY: A351 Gr.CF8M
- TRIM: A351 Gr. CF8M
- Bi-directional Full-rating 0 Leakage



## BACKGROUND

MEDIACO VRAC is a major bulk storage in Marseille and Sète since 1988. And has a main distillery in south America, which provides its group, the leadership in the production of grape seed oil. Now it has 70,000 square meters of warehouses in Vitrolles and in the Port-Saint-Louis area.



## PROJECT SUMMARY

**Site:** MEDIACO VRAC, Marseille - France

**Supplier:** HIPPO VALVE

**Application:** Oil Storage

**Storage:** Capacity for liquid of more than 100.000 m<sup>3</sup> on Marseilles and Sète ports

## TECHNICAL SPECIFICATION

**Safety:** Fire safe available

**Delivery:** High performance control valves approx. 20 pcs in 2020.

## EXECUTION RESULTS AND BENEFITS

#### Successful Service-oriented Duty

- Served to meet schedule, budget, and all with safety requirement according to MEDIACO VRAC.

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## CARBON FIBER PLANT IN AUSTRALIA



**Model V11M0**

### Valve Type

- High-temperature Exhaust
- High Performance Butterfly Valve

### Control Type

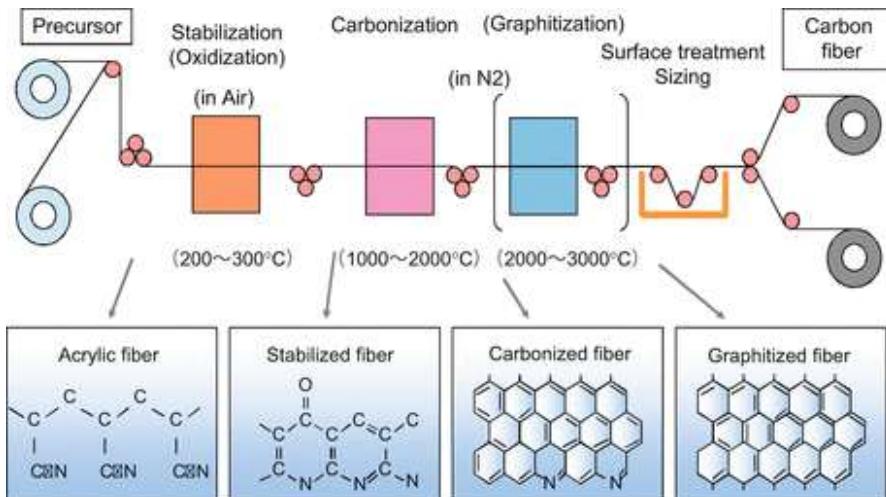
- Tight SHUT-OFF
- MODULATING
- Double-acting Pneumatic

### Configuration

- ANSI 150LB DN100 Wafer
- A351 Gr. CF8M BODY-TRIM
- Inconel 718 Solid Metal Seat

### CARBON-FIBER PRODUCTION PROCESS: STABILIZING

Before the fibers are carbonized, they need to be chemically altered to convert their linear atomic bonding to a more thermally stable ladder bonding. This is accomplished by heating the fibers in air to about 390-590° F (200-300° C) for 30-120 minutes. This causes the fibers to pick up oxygen molecules from the air and rearrange their atomic bonding pattern.



The stabilizing chemical reactions are complex and involve several steps, some of which occur simultaneously. They also generate their own heat, which must be controlled to avoid overheating the fibers. Commercially, the stabilization process uses a variety of equipment and techniques. In some processes, the fibers are drawn through a series of heated chambers. In others, the fibers pass over hot rollers and through beds of loose materials held in suspension by a flow of hot air. Some processes use heated air mixed with certain gases that chemically accelerate the stabilization.

### SITE INFORMATION

**Location:** Australia.

**Usage:** Modulating and Shut-off.

**Application:** High-temperature Exhausted Gas Control.

**Medium:** 328°C Hot Air

## EXECUTION RESULTS AND BENEFITS

### Fulfill Stabilizing Process

- Reliable Class V-VI Tight Shut-off
- Well-pleased performance with carbon-fiber Stabilizing production to date.

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CITED REFERENCE: <http://zoltek.com/carbon-fiber/how-is-carbon-fiber-made/>

## **4. MINING AND PAPER**

**Mining / Pulp&Paper / Palm oil Industry**



## PAPER-PULP REFERENCES



### Model V11F0

#### Valve Type

- Fire-safe Seated High Performance Butterfly Valve

#### Control Type

- Smart Positioning
- Double-acting Pneumatic

#### Configuration

- ANSI 150LB DN300 Wafer
- A351 Gr. CF8M BODY-TRIM
- Bi-directional Full-rating 0 Leakage



### COMPANY BRIEFING

Australian Paper (a subsidiary of Nippon Paper) uses its pulp and paper waste stream to generate 54.5 MW of electricity at its Maryvale paper mill, north of Morwell in Victoria. The power plant generates about 70% of the electricity used by paper mill.

### BACKGROUND

In 2018, Australian Paper announced that it was considering developing a further energy-from-waste facility at Maryvale to generate electricity from 650,000 tons of waste to be diverted from Gippsland and Melbourne landfills



### SITE CAPABILITY

**Site:** Maryvale Paper Mill

**Capacity:** 54.5 MW

**Location:** Morwell-Maryvale Road, Maryvale, Victoria 3840, Australia

**Output:** 200 GWhr p.a.

**Application:** Pulp Waste application

**Technology:** Steam turbine

**Medium:** contains Black Liquor, White Liquor, Green Liquor, Foul gas and Waste Water.

**Fuel:** Biomass - Wood Waste

**No. of Turbines:** 4

### EXECUTION RESULTS AND BENEFITS

#### Smoothly Keep Production back to Duty

- Replace original Fisher control valve
- Seamless production maintenance
- Upscale node to Fire-safe level

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CITED REFERENCE: [https://en.wikipedia.org/wiki/Australian\\_Paper](https://en.wikipedia.org/wiki/Australian_Paper)

## ASIA PULP AND PAPER GROUP



### APP IN BRIEF

Asia Pulp & Paper (APP) Sinar Mas was founded in 1975 and is currently one of the world leading pulp and paper companies.

Beginning as a caustic soda producer in 1972, the company has grown into a global business with operations across Indonesia and China with an annual combined pulp, paper, packaging product and converting capacity of over 20 million tons per annum.

Today, Asia Pulp & Paper (APP) Sinar Mas markets its products in more than 150 countries across six continents.

# HIPPO PROJECT REPORT

## - PT. PINDO DELI 2 -

### DEINKING PLANT



#### HIPPO V11M0

##### Item

- HIPPO V11M0 (DN80-600)
- Metal-Seated High Performance BV

##### Body Material

- A351 Gr. CF8M

##### Disc Material

- A351 Gr. CF8M, Hard Chrome Plated

##### Stem Material

- 17-4PH with Hard Chrome Plated

##### Seat Material

- Inconel 718

#### PROJECT SUMMARY

**Country:** Indonesia

**Supplier:** HIPPO VALVE

**Application:** Pulp and Paper

#### APPLICATION

**Fluid:** White Water, Surfactant, Pulp

**Pressure ratings:** 4 Bar

**Temperature range:** 150°C

**Quantity:** 259 Pieces

#### PROJECT BACKGROUND

After decades of thriving of the first Mills PINDO DELI Mills 1 settled in 1975 in Karawang, Indonesia APP planned an expansion with a new plant to cope with increasing demand.

HIPPOVALVE was approved as trusted supplier for the expansion project of PT. PINDO DELI 2 – Deinking Plant.

HIPPO V11M0 was selected to regulate process of Liquor vapor condensate (made of white water, surfactant and pulp).



# PROJECT EXECUTION AND RESULTS



## SUMMARY HIGHLIGHTS

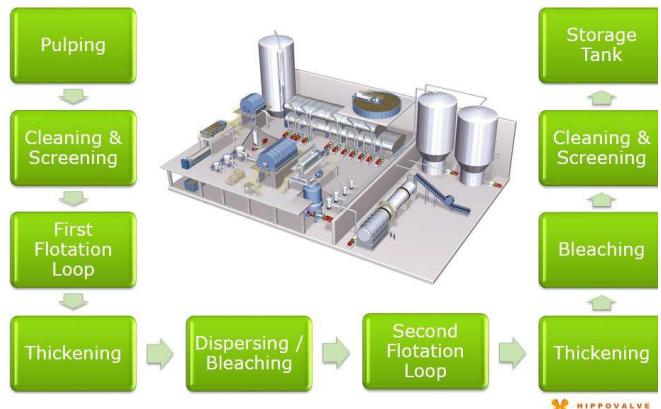
HIPPO Metal-Seated High Performance Butterfly Valve V11M0 was proven perfect for the process of Weak Black Liquor, Steam Condensate, Steam and Pulp Filtrate, surfactant, pulp.

**HIPPO Benefits for Contractor / End-user:** The ease of mind procured by a smooth and uninterrupted operation of reliable V11M0 was very convincing to third party PT. PINDO DELI PULP AND PAPER MILLS, there leading to a long-term collaboration between both organizations.

The success of this project reveals the importance of sourcing right supplier: Undisputed Quality and highly competitive products

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

## Deinking Plant Production Process



- HIPPO HP Butterfly Valve
- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

**HIPPO** in the fluid world.

- Over 40 year experience in fluid control industry
- Many Global Certificates: ISO, API, PED, CE
- Digitalized Production Control
- Application: Petrochemical, Oil & Gas, Pulp & Paper, Energy & Power Plant, Air separator & HVAC, Water treatment

## SIME DARBY PLANTATION (KKS KERDAU)

# MALAYSIA PALM OIL PROCESS PROJECT – SIME DARBY PLANTATION



### HIPPO V11M0

#### Item

HIPPO V11M0 (DN100-DN300)  
Metal-seated High Performance BV

#### Body Material

A216 Gr. WCB / A351 Gr. CF8

#### Disc Material

A351 Gr. CF8 with Hard Chrome Plated

#### Stem Material

A182 Gr. F304 with Hard Chrome Plated

#### Seat Material

INCONEL 718 Metal Seat



#### Plantation

#### SIME DARBY PLANTATION IN BRIEF

The merger of Sime Darby Group in 2007 established Sime Darby Plantation (SDP) as the plantation and agri-business arm of the Sime Darby Group.

For more than a decade, SDP has grown from strength to strength and evolved to not only become a fully integrated global plantation company but also the world's largest producer of Certified Sustainable Palm Oil.

With the demerger of the Sime Darby Group in 2017 and subsequent listing of SDP on the Kuala Lumpur Stock Exchange on 30 November 2017, SDP continues its journey today as an independent pure play entity.



#### PROJECT SUMMARY

**Location:** Temerloh, Pahang

**Country:** Malaysia

**Supplier:** HIPPO VALVE

**Application:** Palm Oil Industry

#### TECHNICAL SPECIFICATION

**Process:** Condensate

**Fluid:** Palm fruit, sand, shell mix

**Pressure ratings:** 3 Bar

**Temperature range:** 130°C

**Quantity:** 15 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**

## BELL GROUP



# MALAYSIA PALM OIL PROCESS PROJECT – BELL GROUP



## HIPPO V11MO

### Item

HIPPO V1100 (DN100-DN250)  
Soft-seat High Performance BV

### Body Material

A216 Gr. WCB / A351 Gr. CF8

### Disc Material

A351 Gr. CF8 with Hard Chrome Plated

### Stem Material

A182 Gr. F304 with Hard Chrome Plated

### Seat Material

RPTFE Soft Seat

## BELL GROUP IN BRIEF

Bell group is one of the largest privately owned Independent Palm Oil Millers in Malaysia, processing over 2.5 million metric tons of fresh fruit bunches (FFB) annually which is equivalent to 135,000 hectares of oil palm plantations. Over the years, we have also successfully created a paradigm shift, developing from an Independent Palm Miller into Green Independent Power Producer, a cutting edge in generating green electricity to de-carbonize the Malaysian electricity grid.

BELL Group is the pioneer and mastermind behind the use and promotion of renewable energy in green energy supply. We have developed a breakthrough model to counter growing environmental concerns surrounding the local palm oil industry – a shift that has propelled the group to emerge as a Green Independent Power Producer.



## PROJECT SUMMARY

**Country:** Malaysia

**Supplier:** HIPPO VALVE

**Application:** Palm Oil Industry

## TECHNICAL SPECIFICATION

**Process:** Steam inlet

**Fluid:** Steam

**Pressure ratings:** 3 Bar

**Temperature range:** 130°C

**Quantity:** 9 Pieces

## HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low fugitive-emission, Low torque, Low noise, Fire-safe, High cycle
- Fully INTERCHANGEABLE seal seats

The success of this project reveals the importance of sourcing the right supplier.

**HIPPOVALVE: Your TRUSTED Supplier of High Performance Butterfly Valve!**