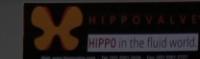


HIPPOVALVE INSTALLED BASE REFERENCES

2025 JULY

Adam Ngo
Sales Manager

2025.07.15



REFERENCE SHARING SPEAKER



"In manufacturing world, simple is the best. We solve issues by simple-and-direct approach, which contributes to better reliability."

Solution Provider / Valve Manufacturer / Industrial 4.0

Adam served a lot of world's leading company in various application across America, Singapore, Malaysia, Vietnam and Taiwan. Successfully meet customer requirements by providing robust valves, online and on-site services. End user industry covered Oil & Gas, Petrochemical, Power, Steel, Palm Oil and Pulp & Paper. With significant valve performance and well-experienced team, Adam related experience included:

- **CTCI** – India. Carbon Black Project. ISBL High Temperature process, great experience working with world class EPC.
- **CCP** – Taiwan. Changpin Plant II Expansion – Providing thousand of valves, on-site maintenance to fix user issues.
- **Sime Darby** – Malaysia. Overseas on-site troubleshooting, offering service to world's leading palm oil producer.
- **CSVC** – Vietnam. Directly served overseas steel end-user, fulfilled documentation and technical supports.

Now Adam is focusing on:

- **Providing on time solution and excellent sales services**
- **Offering the best quality High-Performance Valves.**

Adam had successfully served:



JGC JGC ASIA PACIFIC PTE. LTD.

Indofood
THE SYMBOL OF QUALITY FOODS

APP
sinarmas

CCP

長春集團
Chang Chun Group

GLOBAL TOP CERTIFICATE OF END-TO-END VALVE REFERENCE



HIPPOVALVE's Taiwan Production Sites are now officially certified by API 609 – the American design standard for butterfly valves.

It covers the design, flange face to face dimensions, pressure and temperature rating, inspection, testing, tolerance of butterfly valve.

API 609 divided into two categories, category A for concentric disc and seat; category B for offset seat and either eccentric or concentric disc.

HIPPOVALVE's Taiwan Production Sites are also now officially certified by API Q1 - the gold manufacturing standard of quality management system in the oil and gas industrial.

By adhering to the rigorous standards set by American Petroleum Institute, we have reinforced our dedication to manufacturing quality, stability, and continuous improvement.

This prestigious certification demonstrates our unwavering commitment to excellence and ensures that our customers can trust in the superior quality and stability of our valves.



SIL represents a level of safety integrity for a system and equipment, indicating the level of risk reduction it can provide. HIPPOVALVE has reached the sole qualified company in Taiwan and one of just 18 worldwide of the world's top certifications for the end-to-end butterfly valve lifecycle.

From API 609 design, API Q1 manufacturing, to SIL3 in-use reliability, we have set our uncompromised standard of excellence in the valve quality.

This achievement recognizes our dedication on valves of safety, reliability, and performance for field practice.

FOOTPRINT OVERVIEW

Region	Petrochemical	Power & Energy	Oil & Gas	Mining & Paper	Semiconductor & Electronics	Other
Asia	 台塑企業 <small>FORMOSA PLASTICS GROUP</small>  長春集團 <small>CHANG CHUN GROUP</small>  Continental Carbon®  DCC DAIREN CHEMICAL CORPORATION	 台灣電力公司 <small>TAIWAN POWER COMPANY</small>  SUNBA POWER <small>森霸電力股份有限公司</small>	    <small>台灣中油股份有限公司 CPC Corporation, Taiwan</small>	 APP sinarmas  tjiwi kimia <small>paper products</small>	 <small>Taiwan Semiconductor Manufacturing Company, Ltd.</small>  Micron  Unimicron <small>欣興電子</small>	 CHINA STEEL  Sime Darby Plantation  SUZUKI  <small>THE LEADER IN PAINT TECHNOLOGY</small>   <small>THE SYMBOL OF QUALITY FOODS</small>
Europe						  
Oceania				 Australian Paper <small>a member of the Nippon Paper Group</small>		
America						

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1. POWER AND ENERGY

Refinery / Power / Steel Industry



220KTA ISKENDERUN CARBON BLACK PLANT PROJECT



HIPPO D25NH

Valve Type

- 850°C /1Bar High Temperature Control Butterfly Valve

Control Type

- Spring Return Pneumatic
- Smart Positioner

Configuration

- PN6 (HG/T20592-2009)
 DN1000 / DN1150 / Flanged #FF
- BODY: A36 + High Temperature Refractory layer
 - TRIM: A240 Gr. SS310
 - Uni-directional 3% Rated CV

OYAK SENTETIK KARBON Ürünleri San. ve Tic. A.Ş.



COMPANY BRIEFING

This landmark project was initiated by **OYAK Sentetik Karbon** in partnership with Taiwan's **CSRC** Investment Holdings Co., Ltd., the 6th largest carbon black producer in the world.

BACKGROUND

OYAK is investing in the construction of a 220KTA Carbon Black Plant in Iskenderun (Payas/Hatay), Turkey. The Plant is designed for an annual capacity of 220KTA, to be completed in 2 phases (170KTA in Phase-1 and 50KTA in Phase-2).

On January 16, 2024, **PROKON Engineering** (a subsidiary of the **EKON Group**) was officially awarded the EPC contract for piping, equipment erection, electrical and instrumentation works.

HIPPOVALVE as selected as the key supplier of high-temperature control butterfly valves, critical to the waste heat exhaust system within the thermal cracking unit.



COURTESY: © 2022 EKON

PROJECT SUMMARY

Site: 220KTA Iskenderun Carbon Black Plant

Location: Payas/Hatay, TURKEY

Supplier: HIPPO VALVE

Application: Main ISBL –Heat Cogeneration

Medium: Hot Air

SITE INFORMATION

Plant capacity: 220KTA

Energy cogeneration Capacity: 20MW

Process: Waste heat recovering

Flow Rate: 12100/11000 (Nm³/h)

Pressure rating: 1 bar

Temperature: 850(°C)

EXECUTION RESULTS AND BENEFITS

Operation & Production Duty

- The Plant expected to meet a significant share of domestic demand for carbon black.
- OYAK to eliminate up to \$300 million in annual carbon black imports, improving local supply chain resilience

**OFFICIAL
PARTNER**



NORTH OIL COMPANY (NOC)



HIPPO PROJECT REPORT – NORTH OIL COMPANY (NOC)



HIPPO V210D

Item

HIPPO V210D (DN40-200)
Soft-seat High Performance BV

Body Material

A351 Gr. CF8

Disc Material

A351 Gr. CF8

Stem Material

A564 Type 630 (H1150D)

Seat Material

RTFE soft seat

Accessories

Spring return pneumatic actuator
Solenoid valve
Regulator
Indicator



COMPANY BACKGROUND

North Oil Company (NOC) was established in 1929 under the name Iraq Petroleum Company (IPC), then the name was shifted to North Oil Establishment in 1972 and to North Oil Company in 1987. The geographical area of the company extends to four Iraqi provinces (Kirkuk, Neinawa, Salah Al-Deen, and Alanbar).

North Oil Company includes more than fifty facilities of pump stations, process units, oil field tanks, degassing stations, and many oil wells linked by pipeline nets that are spread over the company's area.



PROJECT SUMMARY

Country: Iraq

Supplier: HIPPO VALVE

Application: Oil & Gas

Area: Kirkuk

TECHNICAL SPECIFICATION

Process: PSA

Feature: High-cycle

Size: 1.5" – 8"

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!



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

SERVICED
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

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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

OFFICIAL
PARTNER



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



*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.

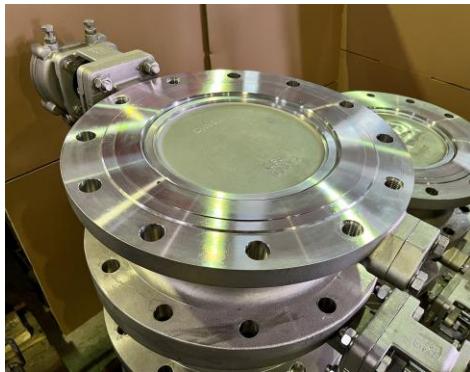
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TAIWAN POWER COMPANY



*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



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

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.

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

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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.

HIPPOVALVE:
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 (Nm³/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 Southeastern 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 100th 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

CHANG CHUN PETROCHEMICAL CHANGHUA



HIPPO PROJECT

REPORT – CCP Changhua PROJECT



HIPPO V130E

Item

HIPPO V130E (DN50-1200)
Soft Seat

Body Material

A351 Gr. CF8

Disc Material

A351 Gr. CF8M

Stem Material

ASTM A182 F316

Seat Material

Soft Seat - PTFE

Accessories

Spring return pneumatic actuator
Positioner
Air Filter & Regulator
Indicator



COMPANY BACKGROUND

In addition to its operations in Taiwan, the Chang Chun Group has established manufacturing facilities in mainland China, Malaysia, Indonesia, and Singapore. The company offers hundreds of products, including general-purpose chemicals, synthetic resins, thermosetting plastics, high-performance engineering plastics, electronic materials, and chemicals for semiconductor applications—making meaningful contributions to industrial advancement and the improvement of people's lives.

Project

Chang Chun's Changhua facility produces high-purity hydrogen peroxide, electronic-grade developers, PME, PAE, and other high-grade electronic chemicals. Handling such high-purity, corrosive, and volatile fluids requires equipment with excellent leakage containment performance.

HIPPO VALVE, certified to **ISO 15848**, provides low-emission valve solutions that meet Chang Chun Group's high standards for sealing and reliability—ensuring chemical purity and process safety in advanced electronics manufacturing.



PROJECT SUMMARY

Country: Taiwan

Supplier: HIPPO VALVE

Application: Low-Emission Type

Area: Changhua

TECHNICAL SPECIFICATION

Fluid: Hydrogen Peroxide (H2O2)

Temperature Range: 48°C

Pressure Rating: 150LB

Quantity: 12 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!



CHANG CHUN PETROCHEMICAL ARIZONA



HIPPO PROJECT REPORT – CCP ARIZONA PLANT



HIPPO V45M0

Item

HIPPO V45M0 (DN150 & DN250)
Metal-seat Triple-Offset BV

Body Material

A351 Gr. CF8M

Disc Material

A351 Gr. CF8M with Stellite 21

Stem Material

XM-19

Seat Material

A182 Gr. F316

Arizona Plant Background

Chang Chun (Arizona) LLC (CCAZ) is building a new high-quality electronic grade chemical manufacturing facility in an industrial corridor within the City of Casa Grande, Pinal County. This facility will be a keystone in the supply chain for the continued expansion of semiconductor manufacturing in the Phoenix Metro Area. The materials that CCAZ will produce locally are used in the development of microchips.

The CCAZ site will be developed in phases to support fabrication of semiconductor wafers in Arizona and across the United States. The first phase of the facility is anticipated to be operational by first quarter 2023.

Project Background

During the first-phase Arizona plant construction, HIPPOVALVE provides a few control valves for city water, fire water tank and refrigerated water tank pump min flow service.



Image: Stream Realty Partners

PROJECT SUMMARY

Country: United States

Supplier: HIPPO VALVE

Application: Petrochemical

Site: Arizona

TECHNICAL SPECIFICATION

Fluid: City & Refrigerated Water

Temperature Range: 7~25°C

Pressure Rating: 150LB

Quantity: 4 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!



HIPPO PROJECT REPORT – CCP MIAOLI-PVA3 HEAT INTEGRATION PROJECT



HIPPO V45M0

Item

HIPPO V45M0 (DN200)
Metal-seat Triple-Offset BV

Body Material

A351 Gr. CF8M

Disc Material

A351 Gr. CF8M with Stellite 21

Stem Material

XM-19

Seat Material

A182 Gr. F316

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 PVA3 heat integration project requires 2 control valve for MeOH-Water Separator Tower to T-1104 service. The original specification would create a over 100bBA of sound level. HIPPOVALVE successfully provides a 1200mm length of multi stage diffuser to lower down the sound level within 70dBA.



PROJECT SUMMARY

Country: Taiwan

Supplier: HIPPO VALVE

Application: Petrochemical

Site: Miaoli

TECHNICAL SPECIFICATION

Fluid: Process Fluid

Temperature Range: 93.1°C

Pressure Rating: 150LB

Quantity: 2 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!

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

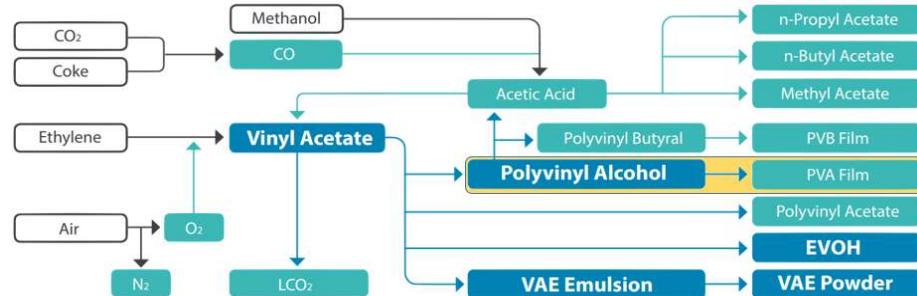
Chang Chun Group (CCP) is Taiwan second largest Petrochemical Company with a dozen of manufacturing sites across Asia-Pacific Region, including China, Singapore, Malaysia, and Indonesia.



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

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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

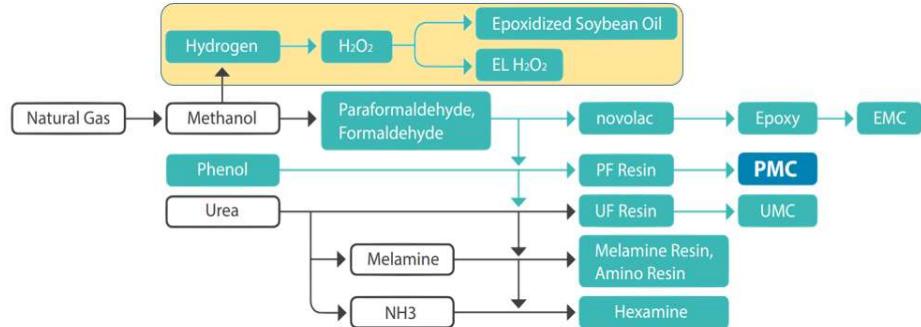
Chang Chun Group (CCP) is Taiwan second largest Petrochemical Company with a dozen of manufacturing sites across Asia-Pacific Region, including China, Singapore, Malaysia, and Indonesia.



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

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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!



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!

3. INDUSTRIAL GAS

Gas storage / Process Gas Application



HIPPO PROJECT REPORT – TSMC MTR Carbon Capture Project



HIPPO V1300

Item

HIPPO V1300 (DN150-450)
Soft-seat High Performance BV

Body Material

A351 Gr. CF8 / A216 Gr. WCB

Disc Material

A351 Gr. CF8M / A351 Gr. CF8

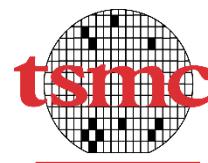
Stem Material

A182 Gr. F316 / A182 Gr. F304

Seat Material

RTFE Soft Seat

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY



PROJECT BACKGROUND

Taiwan Semiconductor Manufacturing Company (TSMC) has chosen MTR's Polaris membrane carbon capture system to manage emissions from its solvent incineration facility in Taiwan. The installation is scheduled for completion by the end of 2025 at TSMC's zero-waste manufacturing site in Taichung, as part of its broader efforts to reduce carbon output from operations.

Unlike traditional solvent-based systems, the Polaris membrane technology from MTR offers a cleaner alternative — it operates without generating chemical waste, requires minimal water, and does not rely on heat or steam, which is expected to help lower operating costs while supporting TSMC's sustainability goals.



PROJECT SUMMARY

Country: Taiwan

Supplier: HIPPO VALVE

Industry: Semiconductor

Location: Taichung plant

Quantity: 40 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!

ABSORPTION REFRIGERATION SYSTEM



LOW TEMPERATURE AMMONIA SERVICE IN AUSTRALIA



HIPPO V130L

Item

HIPPO V130L (DN125)
Low-Temperature High Performance BV

Body Material

A351 Gr. CF8M

Disc Material

A351 Gr. CF8M

Stem Material

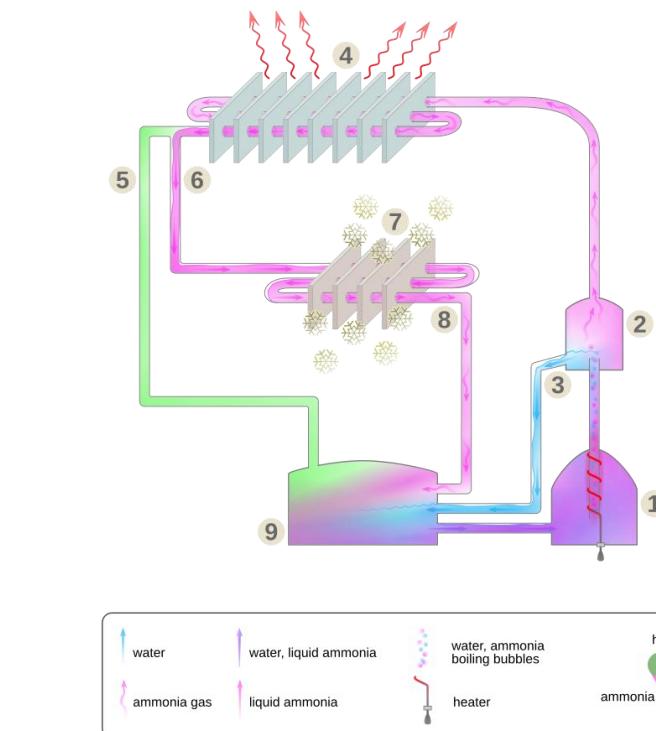
XM-19

Seat Material

PCTFE (for low temp.)

Accessories

Low-Temperature Bonnet



In an absorption refrigeration system, liquid ammonia at about -48°C and 2 bar pressure enters the evaporator, where it absorbs heat and evaporates, providing the cooling effect. This low-pressure, low-temperature evaporation is facilitated by the presence of hydrogen gas to maintain the reduced pressure, allowing ammonia to boil below its normal atmospheric boiling point. The ammonia vapor then moves to the absorber, where it is absorbed into water, continuing the cycle for regeneration and reuse.

As a long-trusted supplier, HIPPOVALVE successfully delivered a practical solution for low-temperature industrial applications, ensuring smooth and reliable process performance.

PROJECT SUMMARY

Country: Australia

Supplier: HIPPO VALVE

Application: Low-Temperature

TECHNICAL SPECIFICATION

Medium: Liquid Ammonia

Temperature: -48°C

Pressure: 2 Bar

Size: 5" (DN125)

HIPPO FEATURES AND BENEFITS

- Bi-directional 0 leakage shutoff
- Low-Temperature design
- Successful collaboration and service of application needs

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CITED Reference: https://en.wikipedia.org/wiki/Absorption_refrigerator



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 (N₂)

Rating: JIS 20K

Temperature: 50°C

Cleanliness: Oil-and-Grease free

EXECUTION RESULTS AND BENEFITS

Perfect “Bi-directional 0 leakage under 15 kg/cm² Nitrogen working pressure” performance helps build high user efficiency.

- Including installation on underground pipe

**OFFICIAL
PARTNER**





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

Location: Western Australia

Process: Preheated Air Furnace

Investment: 50 Million USD

TECHNICAL SPECIFICATION

Application: Oxygen Service

Fluid Medium: Gas - Air

Cleanliness: BAM O2 service

(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 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 3rd 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 (N₂)

Rating: JIS 10K

Temperature: 50°C

Cleanliness: Oil-and-Grease free

EXECUTION RESULTS AND BENEFITS

Perfect “Bi-directional 0 leakage under 15 kg/cm² Nitrogen working pressure” performance helps build high user efficiency.

- 30mins leakage testing witness of all valves

**OFFICIAL
PARTNER**





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 m³ 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 m³

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 m³

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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HYDROCARBON STORAGE PROJECT - LE HAVRE, FRANCE



HIPPO V13F0

Valve Type

- Fire-safe Seated High Performance Butterfly Valve

Control Type

- Slow-closing control (30s)
- Pneumatic Operator

Configuration

- ANSI 150LB DN80/DN150/DN200 LUG
- BODY: A216 Gr. WCB / A351 Gr. CF8M
- TRIM: A351 Gr. CF8M
- Bi-directional Full-rating 0 Leakage



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

BACKGROUND

In June 2021, ALKION TERMINALS initiated the decommission of SOTRASOL Terminal in the old port of Le Havre, while transitioning to the newly built Tankpit 22 terminal LE HAVRE (located about 10 km from the former site). The new Tankpit 22 offers 33,000 CBM of storage capacity in 26 tanks to guarantees a continued supply chain of high value heated products such as additives and lubricants to Alkion customer across Europe.

ARTELIA provided complete project management for the construction of this site. HIPPOVALVE supplied a package Control butterfly valves installation.



PROJECT SUMMARY

Site: ALKION Terminals Le Havre

Location: Route de la chimie zone industrielle/portuaire, 76700, Le Havre – France

Supplier: HIPPO VALVE

Application: Storage

TECHNICAL SPECIFICATION

Tanks capacity: 33,000 m³

No. of Tanks: 26

Process: Filtering and blending

Medium: Hydrocarbon liquid, Gasoline

EXECUTION RESULTS AND BENEFITS

A SMOOTH TRANSITION AND COLLABORATION

- Successful migration Hydrocarbon storage facility to new location
- Collaboration HIPPO-Partner Reinforced

**OFFICIAL
PARTNER**





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 m³ 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

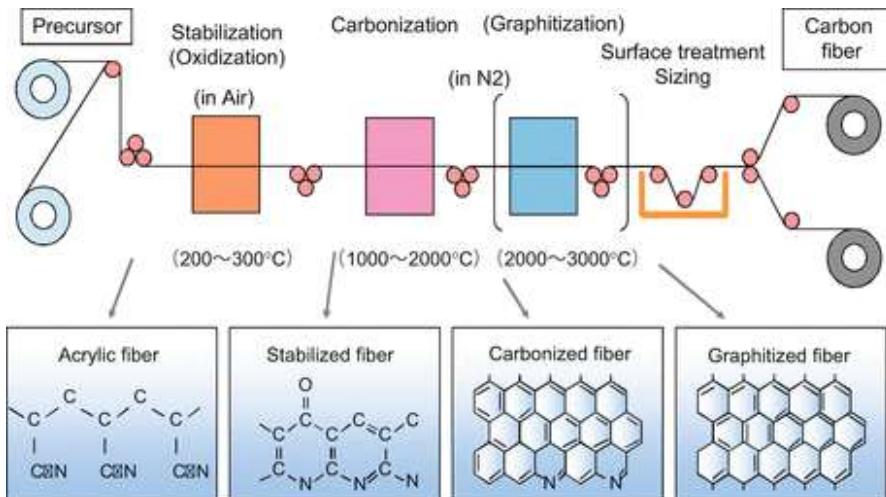
- Tight SHUT-OFF
- MODULATING
- Double-acting Pneumatic

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

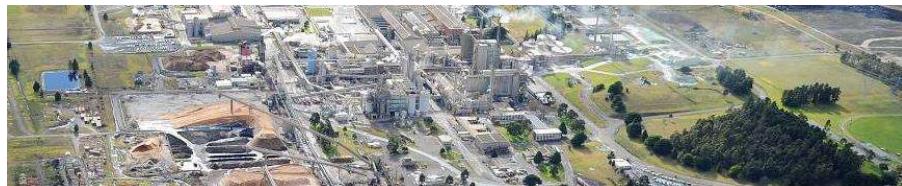


COMPANY BRIEFING

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

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

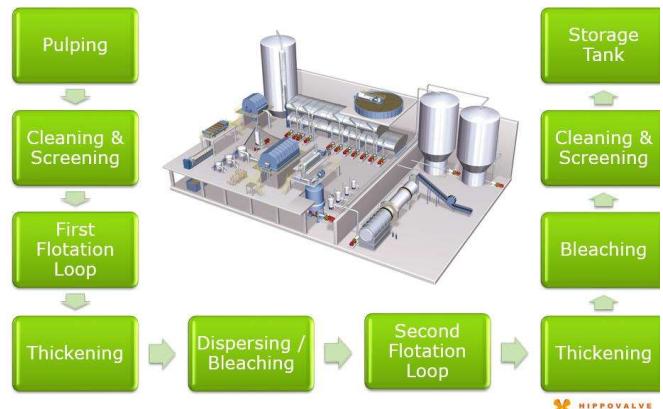
HIPPO Metal-Seated High Performance Butterfly Valve V11M0 was proven perfect for the process of Weak Black Liquor, Steam Condensate, Steam and Pulp Filtrate, surfactant, pulp.

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



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.



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

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!