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CVVT COMPANY INTRODUCTION

➢ ABOUT OUR COMPANY

China Valves Technology Inc.(CVVT) is a recognized leader in supplying valves, actuators, forging and castings, valve locks and related services to the nuclear power, fossil power, hydropower, oil & gas, chemical and petrochemical, water treatment and other industries. With approximately 2,400 employees in China and more than 50 agents and distributors in more than 30 countries, CVVT is able to provide the most convenient services with a local presence.

CVVT has evolved through organic growth and strategic acquisitions. The company was created in 2007 with the merger of two leading fluid motion and control companies Zhengzhou City ZD Valve Co., Ltd. and Henan Kaifeng High Pressure Valve Co., Ltd.. China Valves Technology Inc. heritage dates back to the 1959 founding of Kaifeng High Pressure Valve Factory, later to be Henan Kaifeng High Pressure Valve Co., Ltd. Now China Valves Technology Inc. has 6 wholly-owned subsidiaries, 6 heritage brands, comprehensive product line including over 700 models and 10,000 series. China Valves Technology Inc. goes through the internal resources optimization and external expansion of mergers and acquisitions to integration of China valve industry, try to become one of the leading valve manufacturer and service provider of the world.

In December 2009, China Valves Technology Inc. was successfully listed on NASDAQ (Stock Symbol: CVVT), and became the first Chinese valve company which listed in the United States stock market.

➢ CORE STRENGTHS

As China’s leading industrial valve group and the only China National Enterprise Technology Center in China valve industry, each subsidiary of China valve technology Inc.(CVVT) has its own unique technology advantages and brand advantages.

CVVT-ZD Valve is the first company design and manufacture DN3600mm cast steel double eccentric butterfly valve and DN1600mm eccentric ball valve for water supply & water treatment industries in China.

CVVT-KF Valve is the first designer and manufacturer of 300MW and 600MV thermal
power plant main steam cast steel gate valve in China; the first designer and manufacturer of 1000MV thermal power plant main steam forged steel gate valve in China; the only company who can design and manufacture all the 1000MV ultra-supercritical thermal power plant valves in China; the first designer and manufacturer of Class 2500LB forged steel hydrogenation gate valve for chemical industry and high pressure large size gate valves for coal chemical industry in China.

CVVT-Hanwei Valve is the only company can design and manufacturer of high pressure large size single weld pipeline ball valve and 24-way rotary valve for oil & gas pipeline and petrochemical & chemical industries in China.

CVVT-CSV Valve is the main suppliers of hydropower valves and turbine inlet butterfly valves in China, the turbine inlet butterfly valves accounts for more than 60% market share in China.

CVVT has established long-term strategic partnership with China’s five largest power company(China Huaneng Group, China Datang Corporation, Huadian Power International Corporation Limited, GD Power Development Co., Ltd and SDIC Power Holding Co., Ltd), Shanghai Electric Group, Dongfang Electric Group, Harbin Electric Group, China Guangdong Nuclear Power Holding Co., Ltd (CGNPC), China National Nuclear Corporation, Shanghai Water Supply Company, Guangzhou Water Supply Company, Beijing Waterworks Group, Nanjing Tap water company, BAOSTEEL, SHOUGANG Group, Wuhan Iron and Steel Group, China Petrochemical Corporation, China National Petroleum Corporation(CNPC), China Natural Gas Corporation, United States Victaulic Company, France TECOFI, Italy KSB, India KSK Energy Group Company, Petroleum Development Oman LLC, Karachi Pakistan companies, etc..

➢ **HISTORY**

- 1958 foundation of Changsha Valve Plant.
- 1959 foundation of Kaifeng High Pressure Valves Plant.
- 1992 establishment of Shanghai Pudong Hanwei Valve Co., Ltd.
- 1993 establishment of Zhengzhou City ZD Valve Co., Ltd.
- July 2007 foundation of China Valves Holding Co., Ltd.
• Dec 2007 China Valves Holding Co., Ltd. joined OTCBB in USA.
• April 2009 acquisition of Taizhou Taide Valve Co., Ltd.
• Dec 2009 China Valves Technology Inc. (CVVT) launched NASDAQ Public Listing.
• Jan 2010 acquisition of Yangzhou Rock Valve Lock Technology Co., Ltd.
• Feb 2010 acquisition of Watts Valve(Changsha) Co., Ltd. and renamed China Valves Technology (Changsha) Co., Ltd.
• April 2010 acquisition of Shanghai Pudong Hanwei Valve Co., Ltd.

➢ PRODUCTION MANAGEMENT

China Valves Technology Inc.(CVVT) adopts multi-plantand collaborative production management. CVVT has 6 wholly-owned subsidiaries by February 2013. Each subsidiary has his special market position. With strong R&D capacity, a broad product range and after sales service, CVVT is able to provide customer with complete fluid solution.

Zhengzhou City ZD Valve Co., Ltd.

A leading valves manufacture factory of low pressure butterfly valves, eccentric semi-ball valves, non-return valves with damping system and kinds of valves applied on water supply and drainage pipelines. The brand “ZD” is the No.1 butterfly valve brand in the water treatment industry of China. ZD Valve occupied more than 40% market share of butterfly valves in municipal water treatment of China.

Henan Kaifeng High Pressure Valve Co., Ltd.

It was established in 1959, the dominant products involves supercritical or ultra supercritical fossil power plant high pressure high temperature valves, abrasive and erosive media refinery & petrochemical valves. A leading valve supplier in fossil
power, nuclear power and petrochemical & chemical industries. As a leading valve supplier in energy industry, “KF” brand is considered as No.1 brand in Chinese valve industry.

**Shanghai Pudong Hanwei Valve Co., Ltd.**

The company is a Shanghai high-tech enterprise. Hanwei Valve is famous for its advanced R&D capabilities. It has several patented products like 24-way rotary valve, district heating ball valve and fully welded pipeline ball valve etc.. Hanwei Valve is one of the two suppliers who can provide 24-way rotary valve in the world. Hanwei fully welded pipeline ball valve was well-known in China Oil &Gas industry, and entered the market in Germany, Italy, UK, South America, Middle East, Southeast Asia and Central Asia.

**China Valves Technology (Changsha) Valve Co., Ltd.**

Former Changsha Valves Factory which founded in 1958, with leading products includes hydraulic control butterfly valves, flow control valves, spherical valves in big size. Changsha Valve is considered to be the best butterfly valve supplier in China hydropower industry. The brand “CSV” has more than fifty years history and occupied more than 60% market share in butterfly valve of the China hydropower industry.

**Taizhou Taide Valve Co., Ltd.**
The core product of Taide Company includes rubber full lined gate valves and butterfly valves which are widely used in water treatment industry. It developed triple-eccentric metal seated cryogenic butterfly recently, which is widely used in Air Separation, LNG, and cryogenic treatment industries.

Yangzhou Rock Valve Lock Technology Co., Ltd.

The valve mechanical interlock device of Rock Company awards China national patent. It is the only valve mechanical interlock manufacturer in China. Yangzhou Rock is gradually emerging in the area of mechanical interlock, intelligent alarm linkage, remote flexible control and Mechanical latch delay etc..

➢ TECHNICAL INNOVATION

Technical Innovation is one of CVVT’s core business philosophies. CVVT is the only China National Enterprise Technology Center in China Valve Industry and have 398 technical staff by December 2012.

Innovation is not only a primary productive force, but also the first vitality for our company. Correspondingly, CVVT put heavy investments on technical innovation and pay great attention to cultivate and train our engineers and technicians. It is our professional research and development team which makes us be superior in the valve industry.

CVVT thoroughly design products according to real application in the industry, we have set up product R & D center and product performance analysis center. We apply Auto CAD, Pro/E, Solidworks, Simulation Software Systems, IntelligentMechanical Design, Software-Sigraph Design Software by Siemens-Nixdorf, Fluent Software, etc. for product design and evolvement. CVVT is able to imitate working conditions to test our valve performance, such as finite analysis when the valve deformed due to pressure or other factors.

- API certificate since the year of 1994.
- ISO9001 certificate since the year of 1996.
- PED-CE certificate since the year of 2002.
- API 6D certificate since the year of 2003.
- The first manufacturer of DN1000 Class 900LB pipeline ball valve in China since 1978.
- The first manufacturer of weight hammer type turbine inlet butterfly valves in China since 1983.
- The first manufacturer of metal seated butterfly valve in China since 1987.
- The first manufacturer of DN1300 Class 150LB gate valve in China since 1995.
- The first manufacturer of high pressure forged steel gate valve in China since 2006.
- The first company who can design and manufacture all the 1000MV ultra-supercritical thermal power plant valves in China.
- The first company design and manufacture DN3600mm cast steel double eccentric butterfly valve and DN1600mm eccentric ball valve for water supply & water treatment industries in China.
- The only company can design and manufacturer DN1200 Class900LB single weld pipeline ball valve and 24-way rotary valve for oil & gas pipeline and petrochemical & chemical industries in China.

➢ QUALITY MANAGEMENT

China Valves Technology Inc.(CVVT) always concentrates on providing reliable product with excellent performance to the present industries. CVVT highly committed to the customer we are responsible for our products, our products are designed and manufactured strictly according to the international latest standards, which meet the requirements of present industry.

*High quality products benefited from*

---*Advanced and constantly technical innovation*

Technical Innovation is one of the core business philosophies of CVVT. CVVT believes innovation is not only a primary productive force, but the first vitality for the company. Correspondingly, CVVT puts heavy investments on technical innovation.
CVVT has set up product development center, new product research center and product performance analysis center. In the meanwhile, CVVT applies Auto CAD, CAE(CFD), CAPP, Pro/E, Solidworks and Simulation Software Systems, intelligent mechanical design software-Sigraph Design Software by Siemens-Nixdorf, Cosmos by USA Nastra company for product design and evolvement. It is the continuous technical innovation that makes CVVT be superior in the valve industry.

**High quality products benefited from**

--- *Advanced machining skills and production equipments*

Producing excellent products is of the core business philosophies of CVVT. Excellent products benefitted from advanced production equipments and machining skills. CVVT invests a lot on buying CNC center, NC machines, large NC boring machines, advanced large lathes, cutting machines, drilling machines, Milling machines, heat treatment equipments, automatic welding machines, etc.. In the meantime, CVVT makes a detailed and scientific machining procedure according to different valve structures. CVVT will provide the highest quality products for the customer strictly in accordance with our quality policy: equip advanced production equipments, design best solutions, produce reliable products, provide effective services.

**High quality products benefited from**

--- *Advanced quality management system and quality commitment*

Excellent product benefited from optimized and scientific quality management systems. CVVT has created a set of optimized and scientific quality management systems according to different valve structures and production process. We set up a series of quality control process and methods for each key point from raw material to manufacture. CVVT adopts scientific and rigorous quality control methods to guarantee products, such as raw material chemical analysis, hardness test, impact test, spectrum analysis, non-destructive testing, carbon sulfur analysis, magnetic inspection, ultrasonic inspection, X-ray Inspection, thickness test, mechanical property test and machining process control, assembling test, performance test, etc.. Meanwhile, CVVT has got approval from international standards such as API, ISO, CE and other certificate since 1994. Therefore, we are confident to provide safe and reliable valves for the customer.
VALVE FABRICATING MACHINERY

HIGH PRECISION MACHINING CENTER

HIGH PRECISION NUMERICAL CONTROL LATHE
VTC125E CAR MILLING COMPOUND CENTER

YV 1200 ATC + C CAR MILLING COMPOUND CENTER
THM 6363A HORIZONTAL MACHINING CENTER
HTC 4596A / HTC 63150N CNC HORIZONTAL LATHE

NUMERICAL CONTROL LATHE
NUMERICAL CONTROL LATHE
NUMERICAL CONTROL LATHE
SPRAY WELDING EQUIPMENT
MACHINING CENTER

VERTICAL LATHE
1200 HORIZONTAL LATHE

1100 HORIZONTAL CNC LATHE

1200 CNC LATHE

CNC LATHE
INSPECTION EQUIPMENT
SPECTRUM ANALYZER

UNIVERSAL MATERIAL TESTING MACHINE
SHOCK TESTING MACHINE

METALLOGRAPHIC ANALYZER

WFJ-1P DIGITAL DISPLAY GRATING SPECTROPHOTOMETER

QR-3 CARBON SULFUR ANALYZER MEASUREMENT
TT220 COATING THICKNESS TESTER

THE LAYER INSULATION, ADHESIVE TESTING EQUIPMENT

SUPersonic reflectoscope

X-ray detectoscope
PRESSURE TESTING MACHINE

PRESSURE TESTING EQUIPMENT
Gate/Globe/Check Valve

High Temperature and High Pressure Forged Valve
Gate/Globe/Check valves

In 300MW/600MW/1000MW thermal power plant, main feed water system, high-pressure heater system, main steam system and reheating system etc., and refinery and ethylene etc. industry.

Medium: water, steam, petroleum, etc.

Features
- Solid forging body
- Pressure seal bonnet
- Flexible wedge
- Standard top flange design
- Stellite(R) overlay trim
- Reinforced graphite gasket and packing seal

Style
Class: ANSI 1500# ~ 2900# SPL
Size: DN80 ~ DN650
End Connection: Butted welded end
ANSI B16.25
Temperature: -29℃ ~ 650℃
Material: ASTM A105/F22/F91/F92 DIN WB36

High Temperature and High Pressure Casting Steel Valve
Gate/Globe/Check valves

In 300MW/600MW/1000MW thermal power plant, main feed water system, high-pressure heater system, main steam system and reheating system etc., Refinery and Ethylene etc. industry.

Medium: water, steam, petroleum, etc.

Features
- Monoblock casting body
- Pressure seal bonnet
- Wedge or double disc parallel seat
- Standard top flange design
- Stellite(R) overlay trim
- Reinforced graphite gasket and packing seal

Style
Class: ANSI 1500# ~ 3500# SPL
Size: DN80 ~ DN650
End Connection: Butted welded or flanged connection
ANSI B16.25/ ANSI B16.5/ ANSI B16.47
Temperature: -29℃ ~ 600℃
Material: ASTM A216 WCB / A217WC6 / A217 WC9 / C12A

API standard Valves
Gate/Globe/Check valves

In oil refining, ethylene, petrochemical, pulp & paper, mining industries etc.

Medium: water, steam, petrochemicals, etc.

Features
- Comply with API 600/ API 6D/ API 602/ API 598
- Monoblock forged or casting body, optimized flow design
- Bolt bonnet or pressure seal bonnet
- Wedge or double disc parallel disc
- Standard top flange design
- Stellite(R) overlay trim or others

Style
Class: ANSI 150# ~ 2500# SPL
Size: DN10 ~ DN800 (1/2” ~ 32”)
End Connection: Flanged connection
ANSI B16.25/ ANSI B16.5
Temperature: -10℃ ~ 80℃
Material: Nodular cast iron alloy steel

Rubber Seated Gate Valve
Z4/6/9 45X

Widely used to throttle or control in the pipeline, sewage, municipal construction, petroleum, chemical, food & beverage, pharmacy, textile industry, power plant, shipping, mining, energy sources etc.

Features
- Body inside diameter is the same with the pipeline
- Full lined body and disc
- Body coated with innocuous epoxy resin
- 3 o-ring stem seal low friction, flexible on-off and zero leakage

Style
Class: 1.0MPa ~ 1.6MPa
Size: DN100 ~ DN600
End Connection: Flanged connection
ANSI B16.25/ ANSI B16.5
Temperature: -10℃ ~ 80℃
Material: Nodular cast iron alloy steel
Bleed Steam Check Valve 
H664H/H664Y/H774H

Applied at the steam extraction pipeline and high pressure cylinder exhausting pipeline. Medium: high temperature and high pressure steam.

Features
- Comply with ASME B 16.34/ E101/J8/T3595
- Side or top mounted fast close actuator
- Auto close, with pneumatic actuator fast closing assist
- Disc and seat will auto-center to make seal mated
- With damping counter weight to balance the disc and prevent water hammer
- Streamline runner design, high flow and small flow resistance

Style
Class: ANSI 150# ~ 900# SPL
Size: DN 100 ~ DN1000
End Connection: Butted welded or flanged connection
ANSI B16.25/ ANSI B16.5/ ANSI B16.47
Temperature: -29℃ ~ 600℃
Material: ASTM A 216 WCB/ A217 WC6/A217 WC9

Test Pressure Caps
SY61Y

Applied on superheated system and reheating system of the 300MW/600MW/1000MW thermal power plant. Medium: water, steam, petroleum, etc.

Features
- One piece forged body
- Pressure seal bonnet
- Sealing surface Stellite® overlay
- Butted welded connection.
- With drainage tube after the test, and minimum pressure drop.

Style
Class: ANSI 150# ~ 2900# SPL
Size: DN80 ~ DN850
End Connection: Butted welded ANSI B 16.25
Temperature: -29℃ ~ 650℃
Material: ASMT A105/F22/F91/ F92

Vacuum Valve
DK Series (gate / globe valve)

Used at thermal power, oil refining, ethylene, pulp&paper and mining industries etc. Medium: water, steam, petrochemicals, etc.

Features
- Vacuum test KFA32-8.7
- Monoblock forged body, and optimized design for the runner.
- Bolt bonnet design
- One piece solid wedge
- Stem water proof design
- Sealing surface overlay Stellite®
- Reinforced graphite gasket and packing seal

Style
Class: PN1.6 ~ PN6.4
Size: DN50 ~ DN600
End Connection: Butted welded or flanged connection
ANSI B16.25 /ANSI B16.5
Temperature: -29℃ ~ 426℃
Material: ASTM A 216 WCB, etc.

Cryogenic Valves
D Series

Used at air separation, petroleum, mining & metal, power plant, and paper& pulp industries, etc. Medium: natural gas, hydrogen, light oil, alkanes, hydro carbons, etc.

Features
- Solid cast body
- Flexible wedge
- Sealing surface: Alloy steel, hard alloy and babbit metal are optional
- Low temperature test
- Multiple drive optional

Style
Class: ANSI 150# ~ 600#
Size: DN15 ~ DN500
End Connection: Flanged connection
Temperature: --196℃
Material: LC3, LCB, LCC, 1Cr18Ni9Ti
Axial-flow Check Valve
HW-ACV

In oil and natural gas pipeline system in particular, the export of fuel pumps.

Features
- Casting or forging body
- Bolt bonnet body or fully welded body
- Specially designed double seal valve seat, zero leakage, reliable
- Low fluid loss Precision designed spring to ensure that could open and seal the valve under low pressure.

Style
Class: ANSI/ASME 150# – 2500# (PN1.6 - 42.0MPa)
Size: 1/2” – 72” (DN15 - 1800)
End Connection: ASME / ANSI B16.5 & B16.47 & B16.25, API607 & API6D
Temperature: -46 ℃ – 540 ℃
Material: CS, AS, SS, DSS

Dual Plate Check Valve
HW-DCV

In the oil, gas, petrochemical, shipbuilding, paper & pulp and other fields.

Features
- Design & Manufacturing: API594, JB/T8937
- Low noise, low vibration, low pressure drop
- Casting or forging body
- Dual plate design
- Specially designed dual seal valve seat

Style
Class: ANSI/ASME 150# – 2500# (PN1.6-42.0MPa)
Size: 2” – 48” (DN50 -1200)
End Connection: ASME ANSI B6.5&B16.47; GB, JB, HG, JIS, DIN
Temperature: -46 ℃ – 540 ℃
Material: CS, AS, SS, DSS

Parallel Slide Gate Valve
HW-FGV

In oil, natural gas long-distance pipelines and gas fields as open/close control valves.

Features
- Single plate or double plates, and with conduit ring optional
- Overpressure bleed protection
- Seat and stem are with emergency sealant inject structure
- Fire-safe design in compliance with API607/API16FA
- Full Bore design, convenience for Pipe pig
- Casting or forging body, forging gate

Style
Class: ANSI/ASME 150# – 2500# (PN1.6-42.0MPa)
Size: 1/2” – 48” (DN15-1200)
End Connection: ASME/ANSI B16.5 & B16.47 & B16.25
Temperature: -101 ℃ – 425 ℃
Material: A216 WCB/A105 LCB/A105 LF2 CF8M/A182 F304 A995 4A/A182 F51

Multi-functional Damping Check Valve
- H Dx74

In oil, natural gas, mining & metal, power plant, paper & pulp and municipal water network etc.

Features
- Actuated or free rotate coupling, can Manual/motor open/close valve, and also as a automatic check valve.
- Metal to metal trim, long lasting life.
- Tilting disc, short stroke, quick close.
- Bi-eccentric disc structure with reasonable on and off operation.

Style
Class: 0.25MPa – 1.6MPa
Size: DN500 – DN2000
End Connection: Flanged connection
Temperature: -30 ℃ ~ 160 ℃
Material: Ductile iron, carbon steel
Hydraulic Damping Tilting Check Valve
HQm47H-6Q

Widely applicable for petrochemical, power plant, metallurgy and civil irrigation and drainage etc. in pipeline system.

**Features**
- Tilting disc, short stroke, quick close.
- Bi-eccentric disc structure with reasonable on and off operation.
- Full metal sealing disc and seat with long working life.
- High flow efficiency and low flow resistance.
- Self-lubricating pin bushing, never stuck.

**Style**
- Class: 1.6MPa~2.5MPa
- Size: DN250~DN2000
- End Connection: Flanged connection
- Temperature: -10℃~350℃
- Material: Nodular cast iron, carbon steel

Ventilating Butterfly Valve

In the ventilating and gas conduit of metallurgy and petro chemistry.

**Features**
- Simple structure, good rigidity, small open torque.
- Louver multiple spindle type with gear operated.
- Shaft sleeve with internal and external types, shaft with seal and flexible rotation.
- Streamline design for disc, with small flow resistance.
- Lining and high temperature resistance types with good heat proof quality, light weight.

**Style**
- Class: PN0.05MPa
- Size: DN100~6000
- End Connection: Flanged connection
- Temperature: -10℃~600℃
- Material: Carbon Steel, Alloy Steel, Stainless Steel.

Butterfly Valve Centric / Eccentric / Triple-eccentric/Special Series

Applied to kinds of industrial flow control and water treatment industry at large diameter and middle pressure.

**Features**
- Design & manufacture acc. to API 609, GB/T12238, JB/T8527, JB/T8692
- Centric / eccentric / triple-eccentric design.
- Lining and high temperature resistance types with good heat proof quality, light weight.

**Style**
- Class: ANSI/ASME 150# ~ 600# (PN 1.6~10.0MPa)
- Size: 1”~126” (DN25~3200)
- End Connection: ASME/ANSI B16.5 & B16.47 & B16.25
- Temperature: -196℃~900℃
- Material: Nodular cast iron, grey cast iron, cast steel, duplex steel, alloy steel, stainless steel.

Bi-directional Metal Seated Butterfly Valve
D371Hs/D341Hs/Ds341Hs

Used to throttle or control the medium flux in the pipeline of water, sewage, construction, petroleum, chemical, foodstuff, pharmacy, textile, industry, electric power, shipping, metallurgy, energy sources etc.

**Features**
- Compact structure, small volume, light weight, convenience for operation.
- Semi-axle structure, high strong disc big flow area, small resistance.
- Double-eccentric structure, more close and more tight, with reliable sealing performance.
- Bi-directional sealing function, not limited by medium flow direction for installation.

**Style**
- Class: 0.25MPa~4.0MPa
- Size: DN100~DN3600
- End Connection: Flange and wafer
- Temperature: -30℃~200℃
- Material: Nodular cast iron, alloy steel, carbon steel.
Bi-eccentricity Soft Seated Butterfly Valve
D371Xs/D341Xs/Ds341Xs

Widely used to throttle or control the medium flow in the pipeline of water, sewage, construction, petroleum, chemical, foodstuf, pharmacy, textile industry, electric power, shipping, metallurgy, energy sources etc.

Features
- Bidirectional seal.
- With the bi-eccentric sealing structure, reliable sealing performance.
- Disc adopts semi-axle structure with high strength, high flow capacity and small resistance.
- Expansion valve flange end as optional, can flex freely or be fixed as rigidity according to the working condition.

Style
Class: 0.25MPa ~ 4.0MPa
Size: DN100 ~ DN3600
End Connection: Flange and wafer
Temperature: -10°C ~ 80°C
Material: Nodular cast iron, Carbon steel

Vacuum Butterfly Valve

In the air cooled condenser system of power generation unit and etc.

Features
- Reliable seal without any leakage from two directions;
- Self-lubricating bushing with small frictional coefficient.
- The valve shaft seal adopt self-compensating structure which make sure the vacuum.
- Electric tracing is optional.

Style
Class: PN 0.25Mpa ~ 2.5 Mpa
Size: DN 80 mm ~ DN 1200 mm
Medium: Coal gas, water, vapor, air, etc.
Temperature: ≤ 200°C
Material: Carbon steel, Stainless steel

Buttweld End Metal Seated Butterfly Valve

Used to the pipeline of metallurgy, petrochemical, thermal power plant and heating power system.

Features
- Butt welding end connection,
- Triple-eccentricity metallic hard seat.
- With high temperature resistant, corrosion resistance and long service time

Style
Class: 1.0MPa ~ 4.0MPa
Size: DN100 ~ DN2000
End Connection: Flange
Temperature: -196°C ~ 425°C
Material: Carbon Steel, Duplex and special materials.

Triple Offset Metal Seated Butterfly Valve
D3P371H/D3P341H/D3P971H

Widely used to throttle or control the medium flow in the pipeline of water, sewage, construction, petroleum, chemical, food&beverage, pharmacy, textile industry, power, shipping, metallurgy, energy sources etc.

Features
- Full metal seat and disc, safe and erode-resistance, long service time.
- Sealing couple with self-compensating feature, can realize flexible operation at low and high temperature, and without any block.
- Adopting triple-eccentricity structure, almost no friction between seat and disc.
- High temperature resistance, high corrosion resistance.

Style
Class: 1.0MPa ~ 4.0MPa
Size: DN100 ~ DN2000
End Connection: Flange
Temperature: -196°C ~ 425°C
Material: Carbon Steel, Duplex and special materials.
Butterfly Valve

Butterfly Valve for Hydropower Station

Widely equipped at the inlet of water turbine and can be automatically operated as per procedures so that control water to connect and cut off, and can prevent water turbine from running away.

Features
- Body and disc are cast-welded and external of valve body adopt the T type strengthen structure.
- With an automatic locking device after full open.
- Double eccentric structure to reduce the weight of counterweight.
- Manual operating device can operate the valves when electricity is failure.
- Time of opening and closing valve is adjustable.

Style
Class: PN 0.25Mpa ~ 4.0Mpa
Size: DN 300 mm ~ DN 6000 mm
Medium: Water, water with sediment, etc.
Temperature: ≤ 80 ℃
Material: Carbon steel

Butterfly Valve for Pumping Station

In large and middle sized industry pipeline or pumping station such as water supply works, power plant, metallurgy, irrigation, drainage, etc. Substituting gate valve and check valve and equipped at the pump outlet and performs the functions of cutting off and nonreturn.

Features
- It can keep the hydraulic pressure automatically, so the weight hammer won’t drop.
- The valve won’t twitter.
- Small flow resistance coefficient.
- Closing procedure involves fast and slow closing stages, can eliminate water hammer.
- It can realize the local control, remote control and interlock motion between pump and valve.

Style
Class: PN 0.25Mpa ~ 2.5Mpa
Size: DN 300 mm ~ DN3400 mm
Medium: Water, seawater, water with sediment, etc.
Temperature: ≤ 80 ℃

Fast Closing Butterfly Valve Equipped Pneumatic System and Weight Hammer

Widely applied at the outlet of blower fan or compressor in many industries such as metallurgy, mining, petrifaction, thermal power, etc. can prevent the return of medium and perform the functions as non return and fast emergent close so as to protect the safety of blower fan and pipeline system.

Features
- Triple-eccentricity metal sealing.
- With small operation torque, little wear, high accuracy sealing.
- The emergent close can be fast and reliable (≤ 1s) assisted with air cylinder and counterweight.
- It can realize the remote control.
- Design of closure damper at terminal.

Style
Class: PN 0.25 Mpa ~ 1 Mpa
Size: DN 300 mm ~ DN 1600 mm
Medium: Blast furnace coal gas included dust.
Temperature: ≤ 350 ℃

Butterfly Valve Special for TRT Coal Gas Dust Exhaust System

In the medium of blast furnace coal gas which included dust; can be operated frequently and is an important part of TRT dust removal system in steel plant.

Features
- Main sealing pair of the valve adopts specialmaterials with excellent performance of high temperature resistance, corrosion resistance, radiation resistance, solvent resistance and self lubricating.
- The shaft seal adopt the structure of dust prevention.

Style
Class: PN 0.25 Mpa ~ 0.6 Mpa
Size: DN 400 mm ~ DN 800 mm
Medium: Blast furnace coal gas included dust.
Temperature: ≤ 350 ℃
**Spherical Valve for Hydropower Stations**

In the high water head hydropower station or pump storage power plant as inlet valve; can be automatically operated as per procedures so that control water to connect and cut off, and can prevent water turbine from running away.

**Features**
- Body and ball of the valve adopt high quality carbon steel or alloy steel.
- Main seal has both maintenance seal in upstream and working seal in downstream, and the seal is reliable.
- Small flow resistance coefficient.
- Self-lubricating bushings, with flexible and long service life.

**Style**
- Class: PN 0.6Mpa ~ 10 Mpa
- Size: DN650 mm ~ DN3000 mm
- Medium: Water, water with sediment, etc.
- Temperature: ≤ 80 °C

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**Forge Body Trunnion Ball Valve**
- HW-BB

In the nature gas and oil pipeline, the industries of petrochemical, medicine, city constructions, etc.

**Features**
- Anti-static design in compliance with BS5351/API6D
- Cavity self-relief under overpressure
- Seat and stem are with emergency sealant injector and structure
- Fire-safe design in compliance with API607/API6FA
- Full bore or reduced bore design

**Style**
- Class: ANSI/ASME 150# ~ 2500# (PN1.6 ~ 42.0MPa)
- Size: 2" ~ 56" (DN50 ~ 1400)
- End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
  GB, JB, HG, JIS, DIN
- Temperature: -196 °C ~ 250 °C
- Material: ASTM A105, A350, LF2, A694, A182, F6a, F304, F316, F316L

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**Forging Fully Welded Trunnion Ball Valve**
- HW-WB

In oil, nature gas pipeline and the industries of liquefied gas, coal gas, etc.

**Features**
- Design & Manufacturing: API6D; GB/T 19672
- Anti-static design in compliance with BS5351/API6D
- Seat and stem are with emergency sealant injector and structure
- Fire-safe design in compliance with API607/API6FA
- Forged body and ball welded body, eliminating medium leakage

**Style**
- Class: ANSI/ASME 150# ~ 1500# (PN1.6 ~ 25.0MPa)
- Size: 2" ~ 56" (DN50 ~ 1400)
- End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
  GB, JB, HG, JIS, DIN
- Temperature: -46 °C ~ 150 °C

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**Forging Fully Welded G Type Trunnion Mounted Ball Valve**
- HW-GWB

In oil, nature gas pipeline and the industries of liquefied gas, coal gas, etc.

**Features**
- Design & Manufacturing: API6D; GB/T 19672
- Anti-static design in compliance with BS5351/API6D
- Cavity self-relief under overpressure
- Seat and stem are with emergency sealant injector and structure
- Fire-safe design in compliance with API607/API6FA
- Full bore design

**Style**
- Class: ANSI/ASME 150# ~ 1500# (PN1.6 ~ 25.0MPa)
- Size: 6" ~ 56" (DN150 ~ 1400)
- End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
  GB, JB, HG, JIS, DIN
- Temperature: -46 °C ~ 150 °C
Fully Welded District Heating Ball Valve
- HW-WMB

In city heating system, heating electric pipeline network, petrochemical, oil, nature gas, medical, etc.

Features
- Anti-static design in compliance with BS5535 1
- Cavity self-relief under overpressure
- Fire-safe design in compliance with API6D/API6FA
- Full bore or reduced bore design
- Forging or casting body, forging ball with surface treatment

Style
Class: ANSI/ASME 150# ~ 2500# (PN1.6 – 42.0MPa)
Size: 1/2” ~ 24”(DN 15 ~ 600)
End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
GB, JB, HG, JIS; DIN
Temperature: -196 ℃ ~ 550 ℃

Ball Valve

Metal to Metal Seated Ball Valve
- HW-YBB

In the industries of petrochemical, papermaking, sewage treatment, mines, ocean platform, etc.

Features
- Anti-static design in compliance with BS5535 1
- Cavity self-relief under overpressure
- Fire-safe design in compliance with API6D/API6FA
- Full bore or reduced bore design
- Forging or casting body, forging ball with surface treatment

Style
Class: ANSI/ASME 150# ~ 400# (PN1.6 – 6.3MPa)
Size: 1/2” ~ 42”(DN 15 ~ 1050)
End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
GB, JB, HG, JIS; DIN
Temperature: -196 ℃ ~ 250 ℃

Top Entry Trunnion Mounted Ball Valve
- HW-UBB

In the nature gas and oil pipeline, the industries of petrochemical, medicine, city constructions, etc.

Features
- Anti-static design in compliance with BS5535 1
- Cavity self-relief under overpressure
- Seat and stem are with emergency sealant injector
- Repair and upkeep on-line
- Fire-safe design in compliance with API6D/API6FA
- Full bore or reduced bore design

Style
Class: ANSI/ASME 150# ~ 900 # (PN1.6 ~ 15.0MPa)
Size: 1/2” ~ 12”(DN 15 ~ 300)
End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
GB, JB, HG, JIS; DIN
Temperature: -196 ℃ ~ 250 ℃

Floating Ball Valve - One-Piece Casting/Two-Piece Casting/Fully Welded

Main applies for the industries of nature gas, oil products, chemical industry, metallurgy, city construction, medicine, environment, foods, etc.

Features
- Anti-static design in compliance with BS5535 1
- Cavity self-relief under overpressure
- Fire-safe design in compliance with API6D/API6FA
- Anti-blowout stem, several-level sealing of stem
- Full bore or reduced bore design

Style
Class: ANSI/ASME 150# ~ 900 # (PN1.6 ~ 15.0MPa)
Size: 1/2” ~ 12”(DN 15 ~ 300)
End Connection: ASME/ANSI B16.5 & B16.47a & B16.25;
GB, JB, HG, JIS; DIN
Temperature: -196 ℃ ~ 250 ℃
**Ball Valve**

**Track Ball Valve**

**T Series**

Used at petroleum, chemical, metallurgy, thermal power, and papermaking industries, etc.

Medium: natural gas, hydrogen, light oil, alkanes, hydro carbons, etc.

**Features**
- Introduce foreign advanced design concept, open and close with no wear.
- Flexible packing structure
- Single seat design
- Mechanical wedge sealing.
- With optimum flow characteristic
- The guide way is of bidirectional guide pin
- Automatic and clean function

**Style**

Class: ANSI 150 # ~ 2500 #

Size: DN15 ~ DN600

End Connection: Flanged connection

Temperature: -101°C ~ 593°C

Material: WCB, 1Cr18Ni9Ti, CF8/CF8M/CF3M, Monel/duplex steel, etc.

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**Eccentric Semi-ball Valve**

**PQS34/7Y**

Widely used to throttle, control and cutoff in the pipeline of petroleum, chemical, metallurgy, electric power, Pulp & Paper, thermal power, water supply and drainage etc, especially used in transporting the medium containing granular solid, slag and fibre etc.

**Features**
- Full bore flow design, small pressure drop, high efficiency and energy saving.
- Reliable metal seated, optimized eccentric structure.
- Super hard sealing surface with excellent performance to cut the granular solid and slag.
- Quarter-turn, small opening torque, fast and easy for opening and closing.
- High abrasion and corrosion resistance for sealing surface, and with long service life.

**Style**

Class: 0.6MPa ~ 4.0MPa

Size: DN80 ~ DN2800

End Connection: Flanged connection

Temperature: -29°C ~ 425°C

Material: Nodular cast iron alloy steel carbon steel Stainless steel.

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**Inline Type Sleeve Valve**

**810 Series**

Widely applied at the middle or termination of pipelines such as water supply, water diversion, hydro power station and circulating water; function as pressure regulator valve, flow regulator valve or the bypass valve of drain valve.

**Features**
- Large control scope of flow and pressure.
- Small noise and light vibration.
- Anti-blocking plug and automatic cleaning
- Track the pressure and flow of valve automatically.

**Style**

Class: PN 1 Mpa ~ 2.5 Mpa (valve back minimum pressure 0.02MPa)

Size: DN 300 mm ~ DN 1800 mm

Medium: Water

Temperature: Normal temperature

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**Submerged Type sleeve Valve**

**811 Series**

Widely applied at the pipelines such as water supply, water diversion, water power station and circulating water; immersed in the stilling pool and function as drain valve to regulate the pipe water flow, reduce pressure and dissipate energy.

**Features**
- Large control scope of flow and pressure
- Small noise and light vibration.
- With excellent ability of cavitation erosion resistance.
- Anti-blocking plug and automatic cleaning.

**Style**

Class: PN 0.6 Mpa ~ 2.5 Mpa (valve back minimum pressure 0.02MPa)

Size: 6" ~ 56" (DN150 ~ 1400)

Medium: Water

Temperature: Normal temperature
Y Shape and Straight-way Type Sleeve Valve
305 Series

Widely applied at the pipelines such as water supply, water diversion, water power station and circulating water and used to regulate the pipe water flow, pressure and also function as cutting off fluid.

**Features**
- Large control scope of flow and pressure
- Small noise and light vibration.
- With high adjustment precision.
- With excellent ability of cavitation erosion resistance.
- Good performance of flow and pressure regulation.

**Style**
- Class: PN 1 Mpa — 2.5 Mpa (valve back minimum pressure 0.01MPa)
- Size: DN 150 mm — DN 600 mm
- Medium: Water
- Temperature: Normal temperature

CSV

Steam Control Valve

In turbine industry or municipal heat steam extraction pipe line of power plant.

**Features**
- Adopt single stage sleeve with small holes to adjust the pressure and flow.
- Straight flow channel pattern, without vortex and prevent the noise.
- Throttling components adopt the alloy steel with abrasion resistance.
- The valve can be operated continuously, with little vibration, low noise, less wear and long operating life.

**Style**
- Class: ANSI 150# — 300#
- Size: DN700 — DN1050
- Medium: Vapor
- Temperature: ≤ 425 ℃
- Material: Carbon steel

KF

Quarter-Turn Valve Interlock
Lock 15/lock 25

Applied to lever operated valves, which at the key position of locking, transmitting and revealing (on site and control room) of the oil field, petroleum, chemical, metallurgy, gas and other high risk industries.

**Features**
- Two keys with different codes are equipped with each valve.
- With compact and substantial structure and flexible operations, stainless steel modes make it with long service life.
- Easy to installation, without changing the performance and shape of the controlled valve, applied to any kinds of valves.

**Style**
- Linear coded-card key design; made of stainless steel, resisting high temperature to 700 ℃, low temperature for test to -57 ℃; manual operating won’t break the locking position and influence the normal operating of the valve; without wearing parts, free maintenance; with perfect corrosion resistance, dust resistance, water resistance performance.

Lock

Multiturn Valve Interlock
Lock 15/25/50

Applied to hand wheel operated valves, which at the key position of locking, transmitting and revealing (on site and control room) of the oil field, petroleum, chemical, metallurgy, gas and other high risk industries.

**Features**
- Two keys with different codes are equipped with each valve.
- With compact and substantial structure and flexible operations, stainless steel modes make it with long service life.
- Easy to installation, without changing the performance and shape of the controlled valve, applied to any kinds of valves.

**Style**
- Linear coded-card key design; made of stainless steel, resisting high temperature to 700 ℃, low temperature for test to -57 ℃; manual operating won’t break the locking position and influence the normal operating of the valve; without wearing parts, free maintenance; with perfect corrosion resistance, dust resistance, water resistance performance.
## Valve Interlock/Special Valve

### Vessel Closure Lock

**Lock-G**

This type of lock can be applied to all types of vessel/access closures; in pig trap applications especially where the closure incorporates a bleed device.

**Features**
- Applied to the circular hatch of pressure pipeline and pressure vessel, can be opened and closed fast; can realize fast opening and closing the end cover of the pig receiver & launcher, filter and other pressure equipment; can replace the blind flange of the frequent-switch pipeline and pressure vessel of the refining, chemical, medical, papermaking, national defending, water supply and drainage work, etc.
- Interlock system composed of key and other equipments prevent the risk of working conditions effectively.

**Style**
- Linear coded-card key design; made of stainless steel, resisting high temperature to 700 ℃, low temperature for test to -57 ℃; manual operating won’t break the locking position and influence the normal operating of the valve; without wearing parts, free maintenance; with perfect corrosion resistance, dust resistance, water resistance performance.

### Actuated Valve Lock

**Lock-E**

This type of lock can be applied on power actuated valves occurs in Pig Lanucher/Receiver system, Scraper Traps and Sand Filter system etc.

**Features**
- Interlock system applied on all kinds of electrical switches and between electric appliance and other equipment are available.
- Strict interlock system can be achieved through mechanical interlock system and other interlock system.

**Style**
- Linear coded-card key design; made of stainless steel, resisting high temperature to 700 ℃, low temperature for test to -57 ℃; manual operating won’t break the locking position and influence the normal operating of the valve; without wearing parts, free maintenance; with perfect corrosion resistance, dust resistance, water resistance performance.

### Anti-Tamper lock in Oil Pipeline - Lock-A

It can be applied on the damageable valves in the long pipeline.

**Features**
- With against spoiling interlock and anti-theft structure, which protect the valve effectively.

**Style**
- Linear coded-card key design; made of stainless steel, resisting high temperature to 700 ℃, low temperature for test to -57 ℃; manual operating won’t break the locking position and influence the normal operating of the valve; without wearing parts, free maintenance; with perfect corrosion resistance, dust resistance, water resistance performance.

### Feed Water Heater Isolation Valve - J764Y (three-way valve)

As main feed water high pressure heater bypass valve of the 300MW/600MW power station. Medium: water of high temperature and high pressure.

**Features**
- Monoblock casting body, and optimize pipeline design
- Pressure seal bonnet
- Wedge or double disc parallet seat of the outlet gate valve
- Yoke with Standard top flange design
- Stellite(R) overlay trim
- Reinforced graphite gasket and packing seal

**Style**
- Class: PN200 ~ PN320
- Size: DN200 ~ DN350
- End Connection: Butted welded
- Temperature: -29 ℃ ~ 426 ℃
- Material: ASTM A216 WCB

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*China Valves Technology reserves the right to make modifications without prior notice.*
Applied at petroleum, chemical, metallurgy, thermal power, and papermaking industries, etc.

Medium: steam, water, natural gas, hydrogen, light oil, alkanes, hydrocarbons, etc.

Features
- Through way type/straight way type of body
- Flanged connection
- Manual/electric/pneumatic operation are optional
- Multiple body materials optional

Style
- Class: PN1.6 ~ PN4.0 MPa
- Size: DN15 ~ DN300
- End Connection: Flanged connection
- Temperature: -29 ℃ ~ 550 ℃
- Material: Carbon steel, stainless steel.

24-way rotary valve is a special high tech product combined with mechanical, electric, instrumental, hydro-integration, it is the key equipment of simulating moving bed molecular sieve absorption-separation unit.

Features
- Design & Manufacturing: HG5-12; HG5-2.6.10; HG5-1423 1425; HG5-3.7.11
- Casting or forging body
- Soft seats or metal seated seal as per requirement
- Lift type gate structure which can wipe out glues on the seal surface
- Seal gland box design which forms safe and reliable seal
- Test & Inspection: API598, GB/T13927

Style
- Class: ANSI/ASME 150# ~ 1500# (PN1.6 ~ 5.0 MPa)
- Size: 1/2" ~ 60" (DN15 ~ 1500)
- End Connection: ASME/ANSI B16.5; GB, JB, HG, JIS, DIN
- Temperature: -29 ℃ ~ 550 ℃
- Material: CS, SS, DSS, Ti-alloy

24-way rotary valve
- HW-RV

Tank Bottom Valve
- HW-FJV

Slide Valve (Knife Gate Valve)
- HW-HZV

Widely used in the industries of nature gas, oil products, chemical industry, metallurgy, city construction, medicine, dyestuff, farm chemical, environment, foods, etc.

Features
- Design & Manufacturing: GB/T12234, JB/T8691, ASME B16.34, MSS SP81
- Casting or forging body
- Soft seats or metal seated seal as per requirement
- Lift type gate structure which can wipe out glues on the seal surface
- Seal gland box design which forms safe and reliable seal
- Test & Inspection: API598, GB/T13927

Style
- Class: ANSI/ASME 150# ~ 300# (PN1.6 ~ 5.0 MPa)
- Size: 1/2" ~ 60" (DN15 ~ 1500)
- End Connection: ASME/ANSI B16.5; GB, JB, HG, JIS, DIN
- Temperature: -29 ℃ ~ 550 ℃
- Material: CS, SS, DSS, Ti-alloy
Air Release Valve
QSP1.0 (1.6, 2.5, 4.0)

Widely used in water pipeline and thermodynamic cycle pipeline.

Features
- Exhausting quickly no matter whether there are multi section of water and air column.
- Highspeed air flow of outlet has no effect on the floating ball, make sure that overfall or fast air flow would not drive the ball up.
- Floating ball not standing against the outlet, free of stucking.
- Fast opening and slow closing, and efficient exhaust function improves the utilization of flow cross-section of pipeline, reduces resistance and saves energy, and secure the pipeline.

Style
Class: 1.0MPa ~ 4.0MPa
Size: DN15 ~ DN600
End Connection: Flange
Temperature: -10℃ ~ 80℃
Material: Nodular cast iron Carbon steel

Three-way Control Valve
U943°Q/C

Widely used to control flow direction of filtrated water and back washing water in the filter's inlet and outlet of steel mill.

Features
- Electric actuation adopting, more convenient than pneumatic and hydraulic controls, steady operation and no vibration, free from climate effect.
- With throttling function, saving a maintenance valve.
- Bring strong annular flow to make self cleaning effect when closing and opening
- 2 valves replace 4 conventional filter changover valves.

Style
Class: 0.6MPa ~ 1.0MPa
Size: DN200 ~ DN800
End Connection: Flange
Temperature: 0 ~ 80℃
Material: Carbon Steel

Sluice Gate

Municipal sewage treatment plant and water supply plant, cut off and regulate flow.

Features
- Erosive resist, durable design.
- Compact body, 1/3 weight of traditional iron valve.
- Special seal design, bi-direction seal.
- On line seat change and repair

Style
Class: 5 meter water pressure
Size: DN300x300 ~ DN200x2000
End Connection: Lug
Temperature: -10℃ ~ 80℃
Material: OC19Ni9, 2Cr13, 1Cr13, ZQA19-4

Standard:

Steel Castings, Forged Steel, Castings

All kinds of castings of valve body and components are available: gate valve, globe valve, check valve, regulating valve, safety valve, ball valve, butterfly valve, high temperature and high pressure valve, low temperature valve and pump body, etc.

Material:
ASTM/A216, A217, A351, A352, A487 and carbon cast steel, heat resistant steel, low temperature steel, stainless steel and other more than twenty steel in national standard, such as WCB, WCC,WB36,WC1,WC6,LCB,LC3,LC7,CF8M,CF3M,CF8C, ZG35CrMoRe,ZG28NiCrMo,etc.
Weight: maximum weight/unit: 6 tons

Standard:
GB, ASTM, EN (DIN), JIS
# NUCLEAR POWER, THERMAL POWER REFERENCE LIST

<table>
<thead>
<tr>
<th>CLIENT</th>
<th>YEAR</th>
<th>UNIT CAPACITY</th>
<th>VALVE TYPE</th>
<th>VALVE MODEL</th>
<th>SUPPLY QUANTITY</th>
<th>AMOUNT OF SUPPLY (TEN THOUSAND YUAN)</th>
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<tbody>
<tr>
<td>CHINA GUANGDONG NUCLEAR ENGINEERING CO., LTD. (HONG YANG RIVER, NINGDE)</td>
<td>13</td>
<td>1000MW</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
<td>Z961Y-64-200, DKZ561Y40C9-550, Z545H16C-400, J61Y160P-65 ETC.</td>
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<td>1000MW</td>
<td>BUTTERFLY VALVE</td>
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<td>HONG YAN HE NUCLEAR POWER PLANT</td>
<td>10-12</td>
<td>6×1000MW</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
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<td>1#+2# 125MW</td>
<td>GATE VALVE, CHECK VALVE, BUTTERFLY VALVE</td>
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<td>2×350MW</td>
<td>GATE VALVE, CHECK VALVE, GLOBE VALVE, BUTTERFLY VALVE</td>
<td>Z45T-10Q DN300 Z45T-10 DN100 Z41W-16P DN150 H41H-16C DN125 J41W-16P DN80</td>
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<td>TURKEY 2×135MW</td>
<td>HIGH PRESSURE HEATER INLET THREE-WAY VALVE</td>
<td>J963Y-1500LBWCC-10&quot;</td>
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<td>DONGFANG TURBINE CO., LTD., DONGFANG ELECTRIC GROUP</td>
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<td>XIAO TING 2×350MW</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE, BUTTERFLY VALVE</td>
<td>DKJ961H-64 DN80 J941H-64 DN150 Z960H-16i;DN450 J61H-16P DN300</td>
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<td>LONG QIAO 300MW</td>
<td>GLOBE VALVE, CHECK VALVE</td>
<td>J941H-64 DN100 DKJ41H-25 DN200</td>
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<td>PAKISTAN NANDIPUR 425MW</td>
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<td>CALACA PHILIPPIN 2×150MW</td>
<td>PLUG VALVE</td>
<td>SY61X-600LBC9-20&quot; SY61X-2500LBC9-12&quot; SY61X-300LB-18&quot;</td>
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<td>SY61X-600LB50SPL-8&quot;</td>
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<td>Z960Y-150LB-10&quot;</td>
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<td>J961Y-200-100</td>
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<td>2*660MW HECHUAN ENGINEERING 2 * 660 MW ULTRA SUPERCritical BOILER) 2 * 660 MW</td>
<td>CHECK VALVE, GATE VALVE, GLOBE VALVE</td>
<td>H64Y-2500LB50SPL-8&quot;</td>
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<td>3*220MW CHONGQING ZHENG YANG 3 * 220 MW 220 MW CFB BOILER)</td>
<td>HYDROSTATIC TEST PLUG VALVE</td>
<td>SY61X-2500LBC9SPL-16&quot;</td>
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<td>SY61X-600LBC9SPL-20&quot;</td>
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<td>AMOUNT OF SUPPLY (TEN THOUSAND YUAN)</td>
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<td>SICHUAN DONGFANG ELECTRIC GROUP CO., LTD.</td>
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<td>2×600MW</td>
<td>GATE VALVE, GLOBE VALVE, SAFETY VALVE, CHECK VALVE, BALL VALVE, BUTTERFLY VALVE, VACCUM VALVE</td>
<td>Z941H-64-400, Z962Y-PW55/200F91-150 ETC.</td>
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<td>SHANGHAIELECTRIC POWERSTATION EQUIPMENT CO., LTD</td>
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<td>1000MW NAN TONG</td>
<td>EXTRACTION CHECK VALVE</td>
<td>H664Y-600LBC6SPL DN32&quot; H664H-150LB DN28&quot; ETC.</td>
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<td>EXTRACTION CHECK VALVE</td>
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<td>PN1.6 DN1000 H664Y-150LB-600LB DN150-1000</td>
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<td>ZHUYUAN FUQI</td>
<td>GLOBE VALVE,CHECK VALVE GATE VALVE</td>
<td>Z961H-160-250 HN64H-40-250 J61H-25-200</td>
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<td>BRANCH OF CHINA POWER INVESTMENT GROUP CO., LTD.</td>
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<td>VALVE, GLOBE VALVE</td>
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<td>Z560Y-100-400</td>
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<td>Z560Y-100V-350</td>
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<td>SHANGHAI SHENGNENG ENERGY TECHNOLOGY CO., LTD. (SHANGHAI WUJING)</td>
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<td>600MW</td>
<td>GATE VALVE, CHECK VALVE</td>
<td>Z960Y-900LBC6-8&quot;</td>
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<td>J61Y-P54100V-32 ETC.</td>
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<td>13</td>
<td>HAINAN CHANGJIANG NUCLEAR POWER PLANT 650000 MW</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
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<td>YQ98001-10P-80 ETC.</td>
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<td>CHINA ENERGY CONSTRUCTION GROUP TIANJIN ELECTRIC POWER CONSTRUCTION COMPANY</td>
<td>13</td>
<td>500MW VENEZUELA THAN 500 MW COMBINED CYCLE POWER PLANT</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
<td>Z560Y-20C DN400</td>
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<td>H44Y-20C-400 ETC.</td>
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<td>XINJIANG SHENHUO COAL AND ELECTRICITY CO., LTD</td>
<td>13</td>
<td>4×350MW</td>
<td>GATE VALVE, CHECK VALVE</td>
<td>Z941H-25 DN500, DKZ60H-16C DN600, H44H-25 DN450 ETC.</td>
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<td>AMOUNT OF SUPPLY (TEN THOUSAND YUAN)</td>
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<td>CHINA'S WATER CONSERVANCY POWER SUPPLIES CO., LTD</td>
<td>13</td>
<td>DATANG WALL THERMAL POWER PLANT 2×300MW</td>
<td>FORGING STEEL GATE VALVE</td>
<td>Z960Y-320W36-300 Z960Y-600LBF22-8&quot; ETC.</td>
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<td>SHANXI ZHONG YU ENERGY CO., LTD</td>
<td>13</td>
<td>300MW</td>
<td>PLUG VALVE</td>
<td>SY61Y-600LBC9-20&quot;ETC.</td>
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<td>HUIMIN COUNTY HUIHONG NEW MATERIALS CO., LTD</td>
<td>13</td>
<td>4×330MW</td>
<td>GATE VALVE</td>
<td>Z960Y-320WB36-200 Z960Y-900LBC9-6&quot;ETC.</td>
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<td>JIANGSU KANSHAN POWER GENERATION CO., LTD</td>
<td>13</td>
<td>2×600MW</td>
<td>TURBINE BYPASS ELECTRIC ISOLATION VALVE,GATE VALVE</td>
<td>Z960Y3000LBF92II-14&quot; Z960Y-400WB36-200</td>
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<td>BINZHOU CITY NORTHERN NEW MATERIALS CO., LTD</td>
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<td>4×330MW</td>
<td>GATE VALVE</td>
<td>Z960Y-320WB36 DN200 Z960Y-300LBC6 DN10&quot; ETC.</td>
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<td>73.4</td>
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<td>CHINA TECHNICAL IMPORT AND EXPORT CORPORATION (SUMATRA, INDONESIA CC 2 * 112 MW COAL-FIRED POWER STATION)</td>
<td>12</td>
<td>2×112MW</td>
<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
<td>Z960Y-PW54 100V DN275 Z962Y-200 DN225 J661Y-P54 100V -32 H41H-25-125</td>
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<td>CHINA ENERGY CONSTRUCTION GROUP</td>
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<td>GATE VALVE, GLOBE VALVE, CHECK VALVE</td>
<td>D941X-25 DN200 DKZ40H-64 DN250 H44X-16C-DN100 J61Y-P54/140V-50 Z41T-10-DN250</td>
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<td>GUANGDONG THERMAL POWER ENGINEERING CORPORATION</td>
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<td>CHINA TIANCHEN ENGINEERING CO., LTD. (KAZAKHSTAN AES 50 MW POWER STATION PROJECT)</td>
<td>12</td>
<td>50MW</td>
<td>GATE VALVE, CHECK VALVE</td>
<td>Z961Y-P54.100V DN250 J961Y-P54.100V DN50 Z941H-16C DN400</td>
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<td>5×660 MW SHANDONG TIEJUN ELECTRIC POWER ENGINEERING CO., LTD. (INDIA FOUR MUNDRA PLANT 5 X 660 MW)</td>
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<td>5×660 MW</td>
<td>THE DIAPHRAGM VALVE, EXHAUST VALVE</td>
<td>DN150 PN1.0 JS1613 DN150 PN1.0 CARX-10RL</td>
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<td>AMOUNT OF SUPPLY (TEN THOUSAND YUAN)</td>
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<td>SHANDONG TIEJUN ELECTRIC POWER ENGINEERING CO., LTD. (INDIA FOUR HIGH PRESSURE VALVES, INDIA MUNDRA POWER PLANT PHASE IV OF 5 X 660 MW, INDIA JHAIJAR POWER PLANT 2 X 660 MW)</td>
<td>11</td>
<td>660MW</td>
<td>CHECK VALVE, GATE VALVE, BUTTERFLY VALVE, SAFETY VALVE, BALL VALVE</td>
<td>J61Y-1500~3000LBF91 DN3/4&quot;~2 1/2&quot; Z961H-64-450 ETC.</td>
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<td>SHANDONG ELECTRIC POWER CONSTRUCTION THIRD ENGINEERING COMPANY (SAUDI ARABIA RABIGH POWER PLANTS)</td>
<td>12</td>
<td>2*660 MW</td>
<td>GATE VALVE, BUTTERFLY VALVE</td>
<td>DN200 Ф219.1X8.18 CL150 DN200 Ф219.1X8.18 CL150</td>
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<td>11</td>
<td>2×660MW</td>
<td>GATE VALVE, CHECK VALVE, VACCUM VALVE, BUTTERFLY VALVE, SAFETY VALVE, CONDENSE VALVE, BALL VALVE ETC.</td>
<td>Z40H-150LB DN800, 300LB DN650, D941H-150LB DN600, H44H-300LB DN350 ETC.</td>
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<td>CHINA POWER ENGINEERING EQUIPMENT CO., LTD THE PHILIPPINES PROJECT</td>
<td>11</td>
<td>2×300MW</td>
<td>EXTRACTION AND WATER SUPPLY ELECTRIC GATE VALVE</td>
<td>Z960Y-320W36-DN300/200 Z560Y2000LBF91SPL-18&quot;</td>
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<td>THERMAL POWER PLANT OF DONGFENG AUTOMOBILE COMPANY (# 1, # 2 MACHINE EXTRACTION NON-RETURN VALVE)</td>
<td>12</td>
<td>#1, #2</td>
<td>CHECK VALVE</td>
<td>H744H40C6-500</td>
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<td>GLOBE VALVE, CHECK VALVE</td>
<td>J61Y-P54/170V-32</td>
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<td>HEBEI CONSTRUCTION INVESTMENT SHAHE POWER GENERATION CO., LTD (2×600MW)</td>
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<td>GLOBE VALVE, CHECK VALVE</td>
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<td>THE SECOND ENGINEERING COMPANY OF HEBEI ELECTRIC POWER CONSTRUCTION</td>
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<td>GATE VALVE, CHECK VALVE</td>
<td>Z541H-40 PN4.0 DN350</td>
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<td>HUADIAN QUDONG POWER GENERATION CO., LTD</td>
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<td>Z961Y-64I-DN250 DKZ961Y-100-DN250 J61Y-P55/170V-DN50 H64Y-320(WB36)-DN100</td>
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<td>HUIMIN COUNTY HUIHONG NEW MATERIALS CO., LTD 4*330MW</td>
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<td>4*330MW</td>
<td>GATE VALVE</td>
<td>Z962H-25 DN600 Z960Y-320WB36-200 DKZ960H-16C DN450</td>
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<td>JIAOZUO WANFANG ELECTRIC CO., LTD</td>
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<td>GATE VALVE</td>
<td>Z960Y-300LVC9 DN10” Z960Y-600LBC9 DN10”</td>
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<td>NINGBO DAXIE DEVELOPMENT ZONE INDUSTRIAL PARK OF WANHUA THERMAL POWER CO., LTD</td>
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<td>THE SECOND PHASE</td>
<td>GATE VALVE</td>
<td>Z960Y-P54 140V-300 Z960Y-250-175 Z960Y-P54 140V-225</td>
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<td>NINGBO DRAGON TRADING CO., LTD</td>
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<td>GATE VALVE</td>
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<td>CHINA GENERAL MACHINERY PETROCHEMICAL ENGINEERING COMPANY IN GUANGZHOU</td>
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<td>660MW</td>
<td>WB36 FORGED STEEL GATE VALVE</td>
<td>Z964Y-450WB36-350 ETC.</td>
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<td>GUANG DONG ELECTRIC POWER SUPPLY COMPANY</td>
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<td>Z941H-64-DN400, D941X-16C DN600, H44H-64-DN300, A48Y-25-DN200 ETC.</td>
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<td>STATE POWER HANDAN THERMAL POWER PLANT</td>
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<td>JIANYANGSHI HARMONIOUS FLUID CONTROL EQUIPMENT CO., LTD</td>
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<td>A48Y-160C-DG80 T967H-200-DN175 Z961Y-200V-DN150 J961H-P54/140V-DN50 ETC.</td>
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<td>PUMP, ELECTRIC PUMP EXPORT GATE VALVE</td>
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## HYDROPOWER STATION REFERENCE LIST

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# Petroleum and petrochemical reference list

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<td>USER</td>
<td>PRODUCT</td>
<td>CONTRACT DATE</td>
<td>Q'TY</td>
<td>OPERATING STATUS</td>
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<tr>
<td>CHINA OIL COMPANY WULUMUQI PETROCHEMICAL SUBCOMPANY</td>
<td>DISCHARGING VALVE, PLUG VALVE PN1.0-2.5, DN15-600MM</td>
<td>2005 TILL NOW</td>
<td>57</td>
<td>GOOD</td>
</tr>
<tr>
<td>CHINA OIL COMPANY KELAMAYI SUBCOMPANY</td>
<td>ANGLE VALVE PN1.6,DN50-100MM</td>
<td>2003 TILL NOW</td>
<td>12</td>
<td>GOOD</td>
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<td>CHINA OIL COMPANY DAQING PETROCHEMICAL SUBCOMPANY</td>
<td>BALL VALVE PN1.6,DN15-250MM</td>
<td>2005 TILL NOW</td>
<td>14301</td>
<td>GOOD</td>
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<tr>
<td>COBAT</td>
<td>SLIDE VALVE, BUTTERFLY VALVE CLASS 150LB, SIZE 4&quot;-60&quot;</td>
<td>2005 TILL NOW</td>
<td>69</td>
<td>GOOD</td>
</tr>
<tr>
<td>HEBANG CHEMICAL CO., LTD</td>
<td>MOTOR GATE VALVE, CHECK VALVE CLASS 150-300LB, SIZE 14&quot;-24&quot;</td>
<td>2007 TILL NOW</td>
<td>9</td>
<td>GOOD</td>
</tr>
<tr>
<td>JIANGSU SANDIE CHEMICAL CO., LTD</td>
<td>GLOBE VALVE, BALL VALVE PN4.0,DN15-200</td>
<td>2007 TILL NOW</td>
<td>394</td>
<td>GOOD</td>
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<td>TIANCHENG CHEMICAL CO., LTD</td>
<td>BUTTERFLY VALVE, GLOBE VALVE, BALL VALVE PN1.6-2.5, DN15-800</td>
<td>2007 TILL NOW</td>
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<td>CHINA-KAZAKSTAN OIL PIPE</td>
<td>BALL VALVE, CHECK VALVE CLASS 400LB, SIZE 32&quot;</td>
<td>2008 TILL NOW</td>
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<tr>
<td>HUIZHOU REFINE OIL PROJECT</td>
<td>BALL VALVE CLASS 150-800LB, SIZE 1/2&quot;-34&quot;</td>
<td>2008 TILL NOW</td>
<td>1028</td>
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