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开封高中压阀门有限公司

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全套工程阀门专家

The valve expert of full set engineering

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CATALOGUE



开封高中压阀门集团

Kaifeng High & Middle Pressure Valves Group

开封高中压阀门有限公司

Kaifeng High & Middle Pressure Valves Co.,Ltd.

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## 公司简介 Company Profile

开封高中压阀门有限公司

开封高中压阀门有限公司是中国通用机械协会、阀门协会的理事单位，拥有国家特种设备制造许可证；ISO9001质量保证体系认证；ISO14001环境管理体系认证；OHSAS18001职业健康安全管理体系认证；美国石油学会API6A/6D质量认证；欧盟CE产品及材料认证；持有国家核电公司合格承包商资质证书，是高温高压和特种阀门的主要制造商。

公司拥有一批国内专业从事阀门及材料研究的高级技术人员，始终致力于电力、石化、煤化工等领域的高温高压特种阀门和石油钻采高压井口的产品研发。不仅有着丰富的设计、制造和现场调试经验，而且也利用专业技术人才密集的优势，为用户提供技术咨询、系统改造、设备维修等服务。公司拥有一批训练有素的员工队伍，并具有高效率的经营运作模式。公司在阀门市场上一直享有盛誉。

Kaifeng High & Middle Pressure Valve Co.,Ltd.

Kaifeng high & Middle pressure valve co., Ltd is governing unit of China General Machinery Association, it has owned the nation special equipment manufacturing license certification, ISO9001 Quality assurance system certification, ISO14001 Environmental management system certificate, OHSAS 18001 Occupational health and safety management system certificate, American Petroleum Institute API6A/6D Quality certification, CE products and materials certification and the qualification of the state nuclear power companies quality contractor, it is the major manufacture of high temperature and high pressure special valve.

Company has a group of domestic experts who are engaged in the valve and materials research, senior technical personnel, committed to electric power, petrochemical, coal chemical industry in areas such as special high temperature and high pressure valves and oil drilling high-pressure wellhead product research and development. They not only has a wealth of design, manufacture and commissioning experience, but also use the advantages of professional and technical personnel's intensive to provide users with technical advice, system, equipment maintenance and other services, the company has a group of well-trained staff, and highly efficient management mode of operation. They has been enjoying high reputation in the valve market.

# 公司资质 Company Qualification



营业执照  
Corporate business license



API6D 证书  
API6D Certificate



阀门协会理事证  
Valve association membership



科技型中小企业证书  
Technology SMEs Certificate



TS证书  
TS Certificate



质量管理体系认证证书  
QMS Certificate



环境管理体系认证证书  
EMS Certificate



职业健康安全管理体系认证证书  
OH&SMS Certificate



质量管理体系认证证书  
QMS Certificate



环境管理体系认证证书  
EMS Certificate

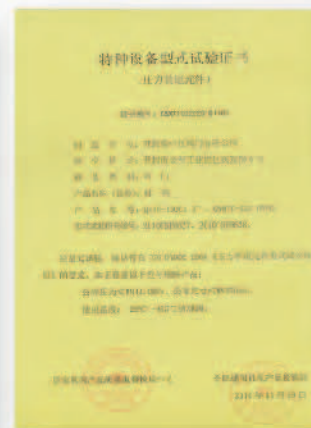
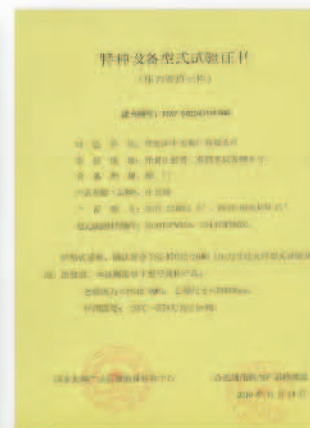
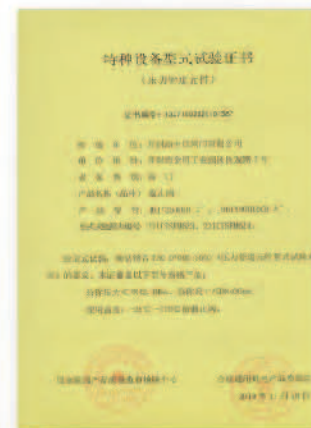


职业健康安全管理体系认证证书  
OH&SMS Certificate



QES 认证证书  
QES Certificate

## 特种设备型式试验证书 Type test certificate for special equipment



## 专利证书 Letter patent



金奖  
Gold medal



银奖  
Silver medal



QES 认证证书  
QES Certificate



华电入网证书  
Huadian admission certificate

# T 技术创新

## Technological innovation

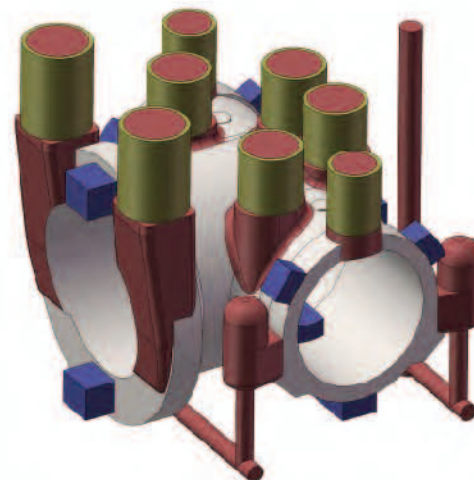
# Q 质量管理

## Quality Management

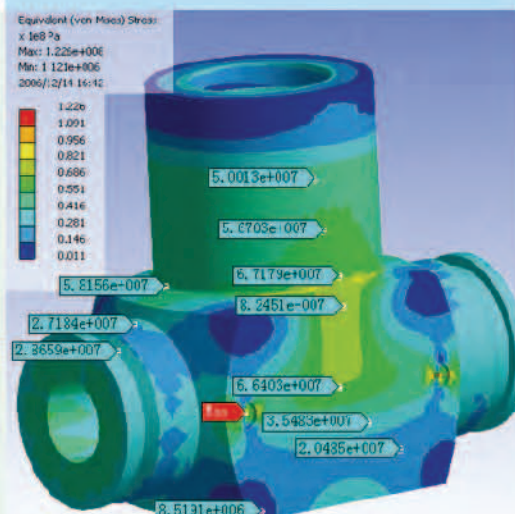
质量控制目标是致力追求给客户id提供零缺陷的阀门产品，所以我们建立了严格的质量控制体系，从原材料到最终出厂严控产品质量。同时集团公司已经通过主要行业资质证书，主要包括：ISO9001质量保证体系认证；ISO14001环境管理体系认证；OHSAS18001职业健康安全管理体系认证；OHSAS18001职业健康安全管理体系认证；美国石油学会API6A/6D质量认证；CE证书；TS证书等。

建立各类试验室及先进检测设备，包括：化学成分分析、机械性能测试、硬度检测、无损探伤（射线探伤、超声波、磁粉、着色）、超低温试验、真空试验、低泄漏试验、高压气体测试、高温测试以及常规水压等一系列阀门实验。为确保毛坯质量设有自己的铸件工厂，从原料生产到成品出库有效管控每一过程。此外，积极实施六西格玛管理，在公司内部推行“零缺陷”项目，并通过先进的数据统计分析，达到持续提高过程控制与管理能力。

凝聚了一个充满活力的研发、设计、工艺团队；采用先进三维造型、有限元分析及工艺模拟软件，虚拟验证产品安全性、可靠性、节能性；开发的阀门专用软件包，适应产品研发的时效性；采用了独特的产、学、研和用技术开发机制和体系；从而形成了一个持续推动着公司技术创新和发展的不竭动力。



Gathering a dynamic team for research, design and process, we use advanced 3D modeling, finite element analysis and process simulation software to test the safety, reliability and energy saving of products. At the same time we develop the special software for valves to adapt to the timeliness of product development.



Using a special mechanism and system for production, study, research and technology development, it is to form a continuous driving force which can promote the development and innovation of technology.

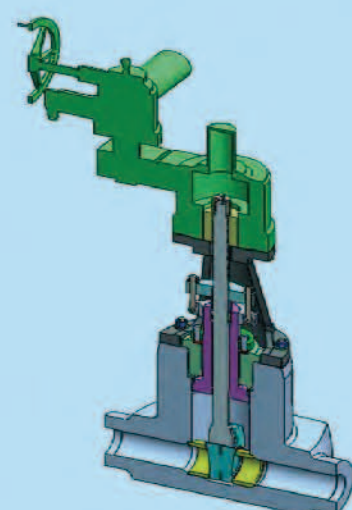
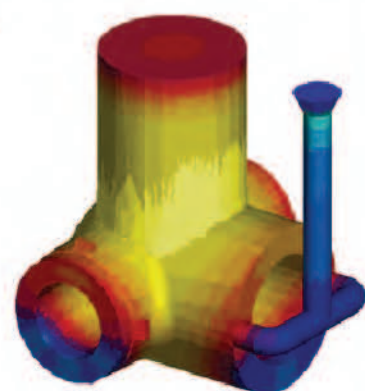
Quality control is committed to the pursuit of the goal to provide customers with zero defect of valve products, so we set up a strict quality control system, from raw material to finished the factory strictly control the quality of products. At the same time, group company has the many industry qualification certificates, mainly including: ISO9001 certificate, ISO14001 Environmental management system certificate, OHSAS 18001 Occupational health and safety management system certificate, American Petroleum Institute API6A/6D Quality certification, CE certificate, TS certificate etc.

The establishment of various laboratories and advanced detection equipments, including: chemical composition analysis, mechanical properties testing, hardness testing, NDT testing (X-ray flaw detection, ultrasonic, magnetic particle, coloring), super low temperature test, vacuum test, low leakage test, high pressure gas test, high temperature test and the conventional water pressure and a series of experimental valve. In order to ensure the quality of casting blank, we have own casting factories from the production of raw materials to the finished product we control each process effectively. In addition, actively implement the Six Sigma management, we implement "zero defect" project in company, and through the analysis of the advanced data statistics, to continuously improve the process control and management ability.

铸件色温  
铸件 12sy612500  
材质WCB

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凝固经历时间2283.40秒

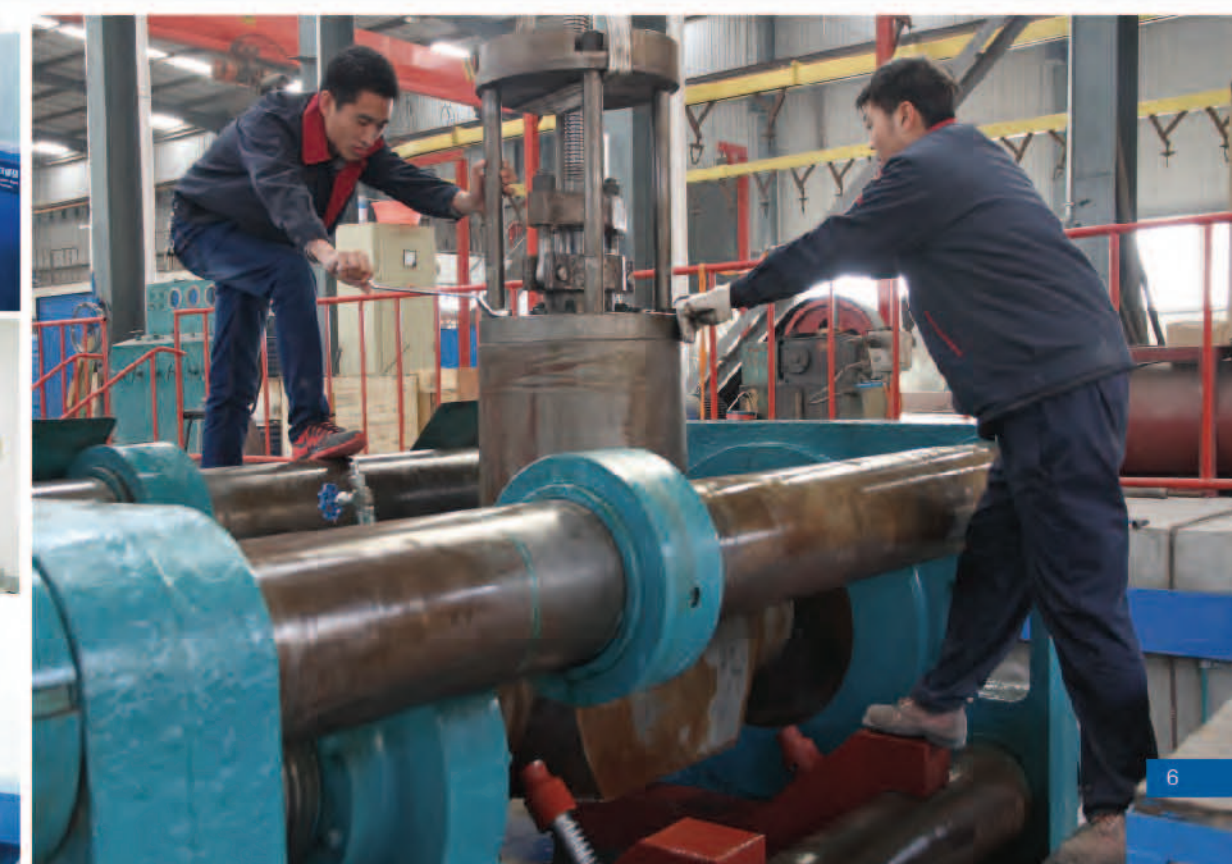


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Pathlines Colored by Particle ID



Y  
Z-X



# A 先进制造 Advanced production



数控加工设备被广泛用于集团工厂，如立式加工中心、卧式加工中心、卧式数控车床、立式数控车床等最大加工能力可达到60英寸闸阀。

CNC machining equipment is widely used in factories, such as the vertical machining center, horizontal machining center, CNC horizontal lathe, CNC vertical lathe etc. The max. processing capacity can be 60 inches gate valve.



开封高中压阀门有限公司主要生产高温高压电站阀门及特殊工况阀门、API6A、API6D石油石化用阀门。

Kaifeng high and middle pressure valve Co., Ltd. mainly produces high temperature & pressure power station valves and especial working condition valves, petroleum and petrochemical valves with API6A and API6D standard.



# C 铸造 Casting



作为流体控制承压设备之一，阀门铸件质量决定到阀门寿命及人员和环境安全，特别是在高温高压工况下使用。这就是顾客为什么在确定采购商之前首先确认供应商材料认证，集团拥有两家铸造厂。

As the pressure equipment of fluid control, casting quality decided to valve life and personnel and environmental safety, especially use in high temperature and high pressure, this is the customer before determining the purchaser first confirm the material certification, the group has two casting factories.

其一 东立铸造，采用树脂砂工艺生产高温高压和大规格砂型铸件；

First, Dongli casting, resin sand production process with high temperature and high pressure and large sand castings;

其二 鸿成铸造，采用脱蜡精密铸造工艺生产中低压中小规格铸件；

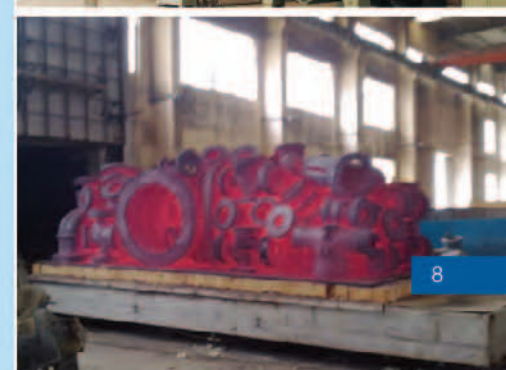
Second, Hongcheng foundry, dewaxing precision casting technology in the production of low pressure casting of small specification;

每个铸造厂都配备各种专用检测设备：Co60-r射线探伤室、XXG-3005x光机、德国斯派克45通道直读光谱分析仪、干湿磁粉探伤仪、超声波、渗透探伤、机械性能测试等设备。

Each casting factory is equipped with a variety of special testing equipment: Co60 - R ray detection chamber, XXG-3005 X-ray machine, Germany's Spike 45 channel direct reading spectrometer, dry and wet magnetic powder flaw detector, ultrasonic flaw detection, permeability, mechanical properties testing equipment.

铸造材料：WCA、WCB、WCC、LCA、LCB、LCC、LC3、WC6、WC9、C5、C12、C12A、CF3、CF3M、CF8、CF8M、CF8C等碳钢、合金钢和不锈钢等钢种以及客户提出的特殊要求的钢种。铸件最大单重达6000公斤。

Casting material: WCA, WCB, WCC, LCA, LCB, LCC, LC3, WC6, WC9, C5, C12, C12A, CF3, CF3M, CF8, CF8M, CF8C, carbon steel, alloy steel and stainless steel as well as the customer's. The largest weight of single casting can be 6000 kg.



# 高温高压电站阀门

设计标准ASME B16.34 NB/T47044 DL/T531及E101

## 关断阀门类

闸阀 截止阀 Y型截止阀  
止回阀 三通阀 吹管阀  
堵阀 抽气止回阀  
疏水阀 憋压阀

## 控制阀门类

高低压旁路阀 减温水调节阀 最小流量阀  
高压、低压加热器疏水调节阀

## High temperature and pressure power station valve

Design standard of ASME B16.34 NB/T47044 DL/T531 and E101

## Shut off valve type

Gate valve globe valve Y type globe valve  
Check valve three-way valve pipe valve  
Plug valve exhaust valve Drain valve  
Chock valve

## Control valve type

High and low pipelinepure bypass valve  
water contol valve  
the minimum flow valve  
High pressure, low pressure heater control valve

# 高压、中压、低压 旁路阀

## High pressure Medium pressure Low pressure bypass valve

汽机高低压旁路阀系统由：高旁减压减温调节阀、高旁喷水调节阀、高旁喷水隔离阀；低旁减压减温调节阀、低旁喷水调节阀、低旁喷水隔离阀以及控制系统等组成，可提供超临界及以下机组用成套装置，控制方式包括电动、气动及液动。

High and low pressure bypass valve of turbine system consists of: High pressure by-pass control valve, High pressure by-pass spraying water control valve, High pressure by-pass water isolating valve; Low pressure by-pass reducing control valve, Low pressure by-pass spraying water control valve, Low pressure by-pass water isolation valve and control system etc., can provide a complete set of device for supercritical unit control mode and under used, including electric, pneumatic and hydraulic.

## High pressure by-pass control valve

Forge welding casing  
Double level adjustment  
multistage denoise  
holes and noise reduction  
Special heat treatment and surface treatment in trim  
Composite packing assembly  
The maximum diameter: 24"  
The highest pressure: ANSL 4500LB  
The highest temperature: 630°C  
Body material: A105, WB36, F11, F22, F91, F92  
Connection: Welding  
Mode of operation: hydraulic, electric, pneumatic



## 高旁减压减温调节阀

锻焊壳体  
双级调节、多级降压、小孔降噪  
特殊热处理和表面处理内件  
复合填料组件  
最大口径：24"  
最高压力级：ANSI 4500LB  
最高温度：630°C  
阀体材料：A105、WB36、  
F11、F22、F91、F92  
连接：焊接  
操作方式：液动、电动、气动

## 低旁减压减温调节阀

锻焊壳体  
一级调节、多级降压、小孔降噪  
特殊热处理和表面处理内件  
复合填料组件  
最大口径：32"  
最高压力级：ANSI 1500LB  
最高温度：630°C  
阀体材料：A105、WB36、  
F11、F22、F91、F92  
连接：焊接  
操作方式：液动、电动、气动



## Low pressure by-pass reducing control valve

Forge welding casing  
Level adjustment, multistage denoise  
holes and noise reduction  
Special heat treatment and surface treatment in pieces  
Composite packing assembly  
The maximum diameter: 32"  
The highest pressure: ANSI 1500LB  
The highest temperature: 630°C  
Body material: A105, WB36,  
F11, F22, F91, F92  
Connection: Welding  
Mode of operation: hydraulic, electric, pneumatic

## 闸 阀 Gate valve

### 设计特点:

中腔压力自密封  
密封硬质合金  
闸板: 楔式弹性闸板、平行双闸板、楔式双闸板  
闸板全程堆焊耐磨合金导向  
阀杆设计为防吹出结构、阀杆ENP处理  
专有行程机械限位装置  
复合型填料  
可选择旁路配置

口径: 2"-28"  
压力级: ANSI 600LB-4500LB  
最高温度: 630°C  
铸造材料: WCB, WB36, WCC, WC1, WC6, WC9, C12A  
锻造材料: A105, WB36, F22, F91, F92  
内件材料: 按照API600  
操作方式: 手动、齿轮、电动、气动、液动  
连接: 焊接



### 设计特点:

中腔压力自密封  
密封二次节流技术  
阀瓣全程导向  
密封硬质合金  
口径: 2"-12"  
压力级: ANSI 600LB-4500LB  
阀体材料: 碳钢、铬钼合金钢  
内件材料: 按照API600  
操作方式: 手动、齿轮、电动  
连接: 焊接

## 截止阀 Globe valve



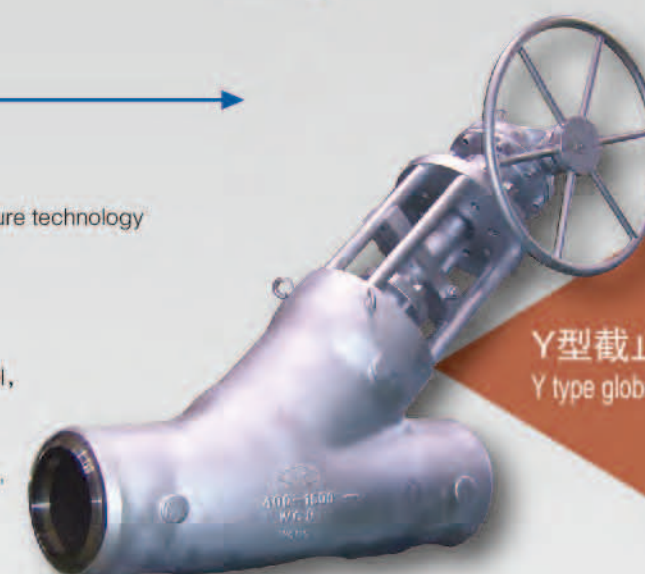
### Design features:

Cavity pressure self sealing  
Seal the secondary reduce expenditure technology  
Disc fully guided  
Seal hard alloy  
Diameter: 2" - 12"  
Pressure: ANSI 600LB - 4500LB  
The valve body material: carbon steel, chrome molybdenum alloy steel  
Trim material: according to the API600  
Mode of operation: manual operation, gear, electric  
Connection: welding

### Design features:

Cavity pressure self sealing  
Seal the secondary reduce expenditure technology  
Disc fully guided  
Seal hard alloy  
Diameter: 2" - 24"  
Pressure: ANSI 600LB - 4500LB  
The valve body material: carbon steel, chrome molybdenum alloy steel  
Trim material: according to API600  
Mode of operation: manual operation, gear, electric  
Connection: welding

## Y型截止阀 Y type globe valve



### 设计特点:

中腔压力自密封  
密封二次节流技术  
阀瓣全程导向  
密封硬质合金  
口径: 2"-24"  
压力级: ANSI 600LB-4500LB  
阀体材料: 碳钢、铬钼合金钢  
内件材料: 按照API600  
操作方式: 手动、齿轮、电动  
连接: 焊接

### Design features:

Cavity pressure self sealing  
Seal hard alloy  
Wedge: flexible wedge gate, parallel gate, wedge double plate  
gate whole surfacing wear-resistant alloy guide  
The stem design for blow out proof structure, stem ENP processing  
Proprietary mechanical limit switch  
Composite type packing  
Can choose to bypass configuration

Diameter: 2"-28"  
Pressure: ANSI 600LB-4500LB  
The highest temperature: 630°C  
Casting material: WCB, WB36, WCC, WC 1, WC 6, WC 9, C12A  
Forging materials: A105, WB36, F22, F91, F92  
Trim material: according to API600  
Mode of operation: manual operation, gear, electric, pneumatic, hydraulic  
Connection: Welding

### 设计特点:

中腔压力自密封  
内置式悬吊阀瓣  
密封硬质合金  
可选择旁路配置  
口径: 2"-24"  
压力级: ANSI 600LB-4500LB  
阀体材料: 碳钢、铬钼合金钢  
内件材料: 按照API600  
连接: 焊接

## 止回阀 Check valve



### Design features:

Cavity pressure self sealing  
The built-in type suspension valve  
Seal hard alloy  
Can choose to bypass configuration  
Diameter: 2"-24"  
Pressure: ANSI 600LB-4500LB  
Body material: carbon steel, chrome molybdenum alloy steel  
Trim material: according to API600  
Connection: Welding

## 三通阀

### 设计特点:

中腔压力自密封  
阀瓣全程导向  
密封硬质合金  
阀杆表面ENP处理

口径: 2"-24"

压力级: ANSI 600LB-2500LB

阀体类型: Z型、直通、锻造、铸造

材料: 碳钢、合金钢

内件材料: 按照API600

操作方式: 电动、液动

连接: 焊接

## Three-way valve

### Design features:

Cavity pressure self sealing

The valve is fully guided

Seal hard alloy

The stem surface treatment ENP

Diameter: 2"-24"

Pressure: ANSI 600LB-2500LB

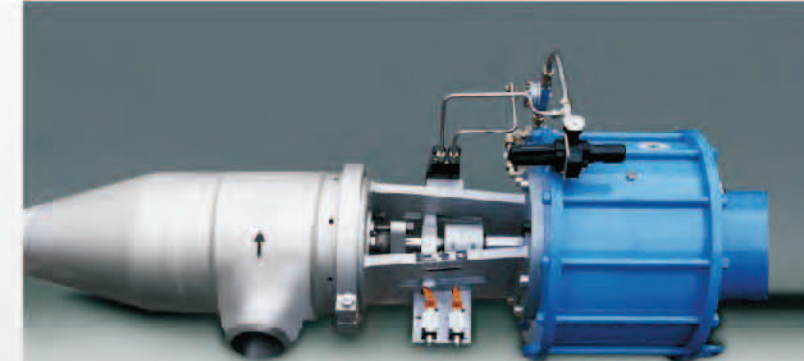
Valve type: Z type, straight, forging, casting

Material: carbon steel, alloy steel

Trim material: according to API600

Mode of operation: electric, hydraulic

Connection: welding



## 最小流量循环阀

### 设计特点:

多级串联涡流与孔板降压

节流与密封分离

内件硬化处理

口径: 2"-8"

压力级: ANSI 1500LB-3500LB

阀体材料: A105, WB36, F91, F92, WCB, WC6, WC9

操作方式: 电动、气动

## The minimum flow recirculation valve

### Design features:

Reduction volt age of multistage vortex and orifice plate

Separation of sealing and throttle down

Hardening treatment of internal parts

Diameter: 2"-8"

Pressure: ANSI 1500LB-3500LB

Body material: A105, WB36, F91, F92, WCB, WC6, WC9

Mode of operation: electric, pneumatic



## 高压、低压加热器疏水调节阀

阀体结构: 直通, 流线型通道

节流级数: 1--3

平衡阀芯及非平衡阀芯

泄露等级: V

口径: 2"、3"、4"、6"、8"

最高压力: ANSI 600LB

连接: 焊接

操作方式: 气动、电动

## 锅炉给水调节阀

### 设计特点:

S形流体通道套筒节流组件

节流面与密封分离

压力平衡式结构阀芯

硬化处理表面高强度不锈钢内组件

口径: 2"-12"

压力级: ANSI 1500LB-2500LB

温度: 630°C

阀体材料: A105, WB36, F91, F92

操作方式: 手动、电动、气动



## Boiler feed water control valve

### Design features:

S shaped fluid channel throttle sleeve assembly

The separation of cutting surface and the sealing

Pressure balance type valve core structure

Hardening components with high strength

stainless steel inner surface

Diameter: 2"-12"

Pressure: ANSI 1500LB-2500LB

Temperature: 630°C

The valve body material: A105, WB36, F91, F92

Mode of operation: manual operation, electric, pneumatic

## High pressure, low pressure heater control valve

Body structure: a straight through, streamline channel

Reduce expenditure series: 1--3

Balance and non balance valve disc

Leakage level: V

Diameter: 2", 3", 4", 6", 8"

The highest pressure: ANSI 600LB

Connection: welding

Mode of operation: pneumatic, electric

## 疏水系统用阀

### Valve for drainage system

#### 高压差疏水截止阀

##### 设计特点:

二次节流密封技术  
口径: 1/2" - 5"  
压力级: ANSI 300LB-4500LB  
最高温度: 630°C  
材料: A105、WB36、F22、F91、F92  
连接: 焊接  
操作方式: 手动、电动、气动

#### High Pressure differntia hydrophobic globe valve

##### Design features:

Seal the secondary reduce expenditure technology  
Diameter: 1/2"-5"  
Pressure: ANSI 300LB-4500LB  
The highest temperature: 630°C  
Material: A105, WB36, F22, F91, F92  
Connection: welding  
Mode of operation: manual operation, electric, pneumatic



#### 高压差Y型疏水截止阀

##### 设计特点:

二次节流密封技术  
流线型设计  
适合高压差  
密封硬质合金  
口径: 1/2"-4"  
压力级: ANSI 300LB-4500LB  
最高温度: 630°C  
材料: A105、WB36、F22、F91、F92  
连接: 焊接  
操作方式: 手动、气动、电动

#### High pressure difference of Y type hydrophobic valve

##### Design features:

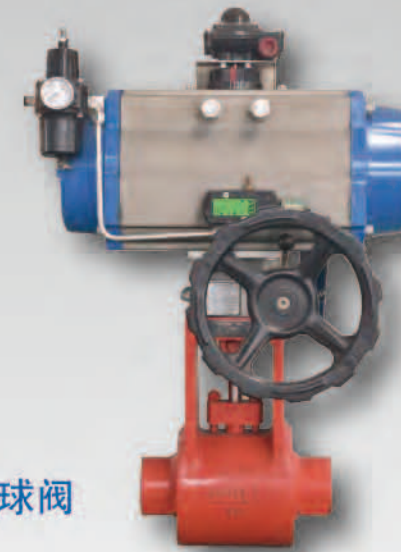
Seal the secondary reduce expenditure technology  
Streamlined design  
Suitable for high pressure difference  
Seal hard alloy  
Diameter: 1/2"-4"  
Pressure: ANSI 300LB-4500LB  
The highest temperature: 630°C  
Material: A105, WB36, F22, F91, F92  
Connection: Welding  
Mode of operation: manual operation, pneumatic, electric



#### 高压差疏水球阀

##### 设计特点:

球体、阀座密封高速喷涂, 匹配研磨100%全接触  
阀座碟簧加力  
复合填料加碟簧活载荷  
专有机机械限位  
口径: 1/2"-4"  
压力级: ANSI 300LB-4500LB  
温度: 630°C  
材料: A105、WB36、F22、F91、F92、F316L  
连接: 法兰、焊接  
操作方式: 手动、气动、电动



#### High Pressure differential hydrophobic ball valve

##### Design features:

The ball, the valve seat sealing speed spraying grinding for 100% full contact  
The valve seat disc spring afterburner  
Composite filler with disc spring live load  
Proprietary mechanical limit  
Diameter: 1/2"-4"  
Pressure: ANSI 300LB-4500LB  
Temperature: 630°C  
Material: A105, WB36, F22, F91, F92, F316L  
Connection: flange, welding  
Mode of operation: manual operation, pneumatic, electric

#### 自动循环阀 (空排止回阀)

安装在给水泵出口管道上, 阀门既有止回阀功能, 又有最小流量功能的自动调节阀。  
Installed in the pump outlet pipe, valve has a check valve function, automatic regulating valve and the minimum flow function.



##### 设计特点:

阀门为T型、四通型结构  
主通道低流阻, 纺锤形阀瓣, 弹簧辅助关闭  
旁路通道多级串联减压结构  
密封硬质合金  
最高压力级: ANSI 1500LB  
最大口径: 10"  
连接: 法兰、焊接

#### Automatic circulating valve (check valve)

##### Design features:

Valves for the T type, four way type structure  
The main channel of low flow resistance  
spindle shaped valve, spring assisted closure  
A bypass passage multi-stage decompression structure  
Seal hard alloy  
The highest pressure: ANSI 1500 LB  
The maximum diameter: 10"  
Connection: flange, welding

## 水压试验堵阀

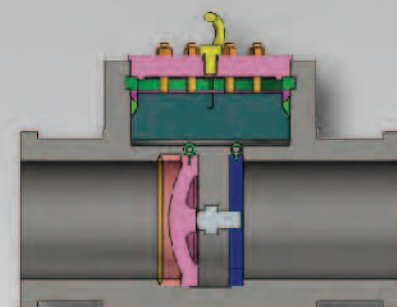
### 设计特点:

流道全通径、内腔内设导流套  
中法兰、中腔自密封  
口径: 10"-40"  
压力级: ANSI 300LB-4500LB  
最高温度: 630°C  
锻造材料: A105, F22, F91, F92  
铸造材料: WCB, WC1, WC6, WC9, C12A  
连接: 焊接

## Hydraulic pressure test plug valve

### Design features:

Channel all pass through the guide sleeve, the inner cavity  
The flange, the cavity in the self sealing  
Diameter: 10"-40"  
Pressure: ANSI 300LB-4500LB  
The highest temperature: 630°C  
Forging materials: A105, F22, F91, F92  
Casting material: WCB, WC1, WC6, WC9, C12A  
Connection: welding



## 抽气止回阀

### 设计特点:

关闭时间 $\leq 0.5$ 秒  
阀座密封面倾斜设计  
阀体内腔采用流线设计  
执行机构与阀门关闭件相对独立  
关闭件开启设有限位机构  
口径: 3"-48"  
压力级: ANSI 150LB-1500LB  
最高温度: 576°C  
材料: WCB, WC6, WC9, C12A  
连接: 法兰、焊接  
操作方式: 气动、液动

## Exhaust valve

### Design features:

Closing time below 0.5s  
The sealing surface of the valve seat tilt design  
The inner cavity of the valve body adopts the streamline design  
Actuator and valve closing member relative independence  
The closure member opening is provided with a limiting mechanism  
Diameter: 3"-48"  
Pressure: ANSI 150LB-1500LB  
The highest temperature: 576°C  
Material: WCB, WC6, WC9, C12A  
Connection: flange, welding  
Mode of operation: pneumatic, hydraulic



## 憋压阀 (快速节流阀)

### 设计特点:

流道流线型设计, 全开压降0.008MPa  
关闭节流件, 满足工况压降  
中腔压力自密封  
节流件全程导向  
节流部位进出口及流道堆焊硬质合金  
阀杆表面ENP处理  
最大口径: 24"  
压力级: ANSI 600LB-2500LB  
阀体类型: 直通  
锻造、铸造材料: 碳钢、合金钢  
内件材料: 按照API600  
操作方式: 电动  
连接: 焊接

## Choke valve (fast throttle valve)

### Design features:

Flow streamline design, open the 0.008MPa drop  
Close the throttle, the needs of working pressure  
Cavity pressure self sealing  
The entire process oriented throttling element  
Import and export flow throttle position and hard surfacing alloy  
The stem surface treatment ENP  
The maximum diameter: 24"  
Pressure: ANSI 600LB-2500LB  
Body type: straight  
Forging, casting material: carbon steel, alloy steel  
Trim material: according to API600  
Mode of operation: electric  
Connection: welding



## 管道吹扫阀

### 设计特点:

阀体流道线性  
30秒快速开闭  
闸板、阀座密封硬质合金  
复合填料加碟簧活载荷  
闸板、阀体导向堆焊耐磨合金  
阀杆防吹出设计、阀杆表面ENP处理  
配置高速可靠、频繁开关电动装置  
最大口径: 26"  
压力级: ANSI 600LB-3500LB  
最高温度: 570°C  
铸造材料: WCB, WC9  
连接: 焊接

## Pipeline purge valve

### Design features:

The channel of the valve body streamlined  
30 seconds fast opening and closing  
Hard alloy, the valve seat seal gate  
Composite filler with disc spring live load  
Gate, valve guide wear resistant alloy welding  
Blow out proof design of the stem  
The stem surface treatment ENP  
High speed and reliable electric device configuration, frequent switch  
The maximum diameter: 26"  
Pressure: ANSI 600LB-3500LB  
The highest temperature: 570°C  
Casting material: WCB, WC9  
Connection: Welding



# 小口径锻钢阀门

## 闸阀、截止阀、止回阀

### Small caliber forged steel valves

#### Gate valve、Globe valve

#### Check valve

小口径锻钢阀门包括闸阀、截止阀和止回阀（旋启和升降），符合美国石油协会API602标准，体盖之间采用螺栓连接或者体盖焊接结构，结构紧凑。闸阀和截止阀可以采用波纹管密封和填料密封双重密封结构。Small caliber forged steel valves include gate valves, globe valves and check valves (screwing and lifting), in line with the American Petroleum Association. According to API602 standard, bolted joints or body cover welded structures are used to forge rigid gate. Gate valves and globe valves can be sealed with bellows and packing seals.



## 小口径锻钢阀门

### Small caliber forged steel valves

设计特点：  
体盖采用螺栓连接或体盖焊接结构  
明杆支架结构  
截止阀阀瓣可采用针型或锥型  
可选缩径和全径结构  
可采用波纹管密封结构



Design features:  
Valve cover is welded by bolt connection or body cover  
Rigid sluice  
Cut-off valve disc may be needle type or cone type  
Optional shrinkage and full diameter structure  
Bellows seal structure can be used

口径：1/2"-2" (DN15-DN50)  
压力级：ANSI 150LB-2500LB  
阀体材料：碳钢、不锈钢、合金钢  
连接方式：NPT、SW、BW、RF、RJ等  
操作方式：手动、齿轮、电动、气动、液动

Diameter: 1/2"-2" (DN15-DN50)  
Pressure: ANSI 150LB-2500LB  
Body material: Carbon steel, Stainless steel, Alloy steel  
Connection: NPT, SW, BW, RF, RJ  
Mode of operation: manual operation, gear, electric, pneumatic, hydraulic

## 常规 闸 阀

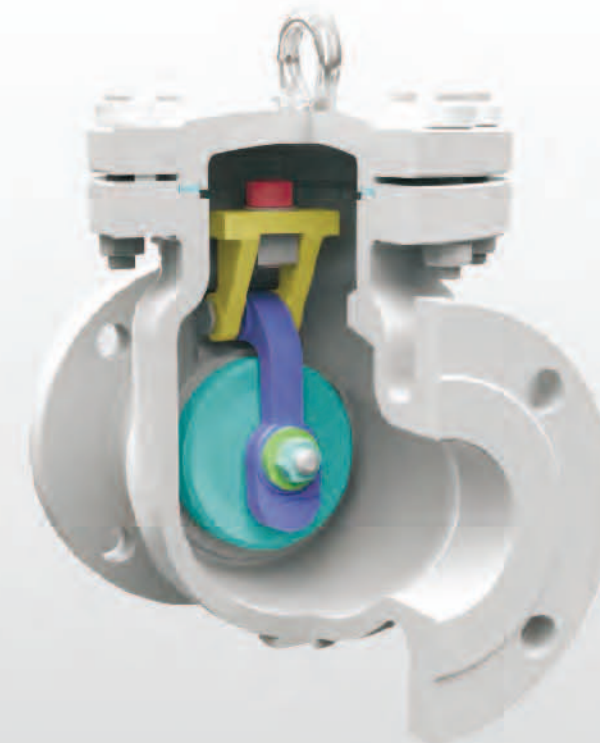
## 截止阀

## 止回阀

### 设计特点：

设计标准：API6D  
低泄漏控制（闸阀、截止阀）  
弹性楔形闸板（闸阀）  
螺纹或焊接阀座  
塞阀瓣（截止阀）  
油田铰链销/通过铰链销（止回阀）  
重量杆设计（止回阀）

类型：闸阀、截止阀、止回阀  
口径：2"-48"  
压力级：ANSI 150LB-2500LB  
阀体材料：碳钢、不锈钢、合金钢、复合钢  
内件材料：按照API600  
操作方式：手动、齿轮、电动、气动



## General Gate valve

## Globe valve

## Check valve

### Design features:

Design Standard: AIP6D  
Low leakage control (gate valve, globe valve)  
Flexible wedge (gate valve)  
Valve seat screw or welding  
Plug valve(globe valve)  
Oil the hinge pin / through a hinge pin (check valve)  
The weight of the bar design (check valve)  
Types: gate valve, globe valve, check valve  
Diameter: 2"-48"  
Pressure: ANSI 150LB-2500LB  
Body material: carbon steel, stainless steel, alloy steel, composite steel  
Trim material: according to API600  
Mode of operation: manual operation, gear, electric, pneumatic



## 全口径管线阀

### 平板闸阀

#### 设计特点:

设计标准: API6D  
防火设计  
低泄漏控制  
可选单平闸板或双平板结构  
双向阻塞及泄放功能  
中腔压力过载自排放功能  
口径: 2"-48"  
压力级: ANSI 150LB-2500LB  
阀体材料: 碳钢、不锈钢  
内件材料: 软密封、金属密封  
操作方式: 手动、齿轮、电动、  
气动、液动



## Full diameter pipeline valve

### Gate valve

#### Design features:

Design Standard: AIP6D  
Fire protection design  
Low leakage control  
Optional single flat gate or double plate structure  
Bidirectional blocking and discharging function  
Pressure in the chamber from the discharge function overload  
Diameter: 2"-48"  
Pressure: ANSI 150LB-2500LB  
Body material: carbon steel, stainless steel  
Trim material: soft sealing, metal seal  
Mode of operation: manual operation, gear, electric,  
pneumatic, hydraulic

## 球 阀

#### 设计特点:

设计标准: AIP6D  
防火设计  
低泄漏控制  
双向阻塞及泄放功能  
中腔压力过载自排放功能  
口径: 2"-48"  
压力级: ANSI 150LB-2500LB  
阀体材料: 碳钢、不锈钢  
内件材料: 软密封、金属密封  
操作方式: 手动、齿轮、电动、气动、液动



## Ball valve

#### Design features:

Design Standard: AIP6D  
Fire protection design  
Low leakage control  
Bidirectional blocking and discharging function  
Pressure in the chamber from the discharge  
function overload  
Diameter: 2"-48"  
Pressure: ANSI 150LB-2500LB  
Body material: carbon steel, stainless steel  
Trim material: soft sealing, metal seal  
Mode of operation: manual operation, gear,  
electric, pneumatic, hydraulic

## 止回阀

#### 设计特点:

设计标准: API6D  
流线型流道  
旋启式阀瓣  
低泄漏控制  
口径: 2"-48"  
压力级: ANSI 150LB-2500LB  
阀体材料: 碳钢、不锈钢  
内件材料: 金属密封  
连接: 法兰



## Check valve

#### Design features:

Design Standard: AIP6D  
The streamlined channel  
Swing valve  
Low leakage control  
Diameter: 2"-48"  
Pressure: ANSI 150LB-2500LB  
Body material: carbon steel, stainless steel  
Trim material: metal seal  
Connection: flange

## 蝶阀

## Butterfly valve

蝶阀采用三偏心和二偏心结构, 符合API609标准, 具有双向安装, 重量轻, 扭矩小等特点, 在许多工况下, 不但可以做为流体阻断, 更可以用于流体过程控制来取代传统闸阀, 截止阀和球阀。

The butterfly valve is three eccentric and two eccentric structure, which meets the API609 standard. It has the characteristics of two-way installation, light weight and little torque. In many working conditions, it can be used not only for fluid blocking, but also for fluid process control to replace traditional gate valves, globe valves and ball valves.



#### 设计特点:

无摩擦关闭  
零泄露  
三偏心, 双偏心  
防吹出阀杆结构  
可选加长阀杆  
口径: 3"-80" (DN80-DN2000)  
压力级: ANSI 150LB-600LB  
阀体材料: 铸造碳钢、不锈钢、合金钢等  
连接方式: 对夹式, 双耳式, 双法兰式等  
操作方式: 手动、蜗轮、电动等

#### Design features:

Frictionless closure  
Zero leakage  
Three eccentricity and double eccentricity  
Blow out valve stem structure  
Optional lengthening stem  
Diameter: 3"-80" (DN80-DN2000)  
Pressure: ANSI 150LB-600LB  
Body material: Carbon steel, Stainless steel,  
Alloy steel  
Connection: Pair clip, double ear, double flange  
Operation mode: Manual, turbine, Electric power

## API6A主要产品

The main products of API6A

### 闸阀

设计标准: API6A

锻造阀体、阀盖

低操作扭矩

配置润滑油嘴

压力级: ANSI 3000、5000、10000PSI

口径: 1 13/16---4 1/16

连接: 螺纹、法兰

### Gate valve

Design Standard: API6A

Forging valve body, bonnet

Low operating torque

Configure Lubricating oil nozzle configuration

Pressure: ANSI 3000, 5000, 10000PSI

Diameter: 1 13/16---4 1/16

Connection: thread, flange



### 滚球丝杠闸阀

设计标准: API6A

锻造阀体、阀盖

低操作扭矩

平衡尾杆结构

配置润滑油嘴

压力级: ANSI 3000、5000、10000PSI

口径: 1 13/16---4 1/16

连接: 螺纹、法兰

### Ball guide screw gate valve

Design Standard: API6A

Forging valve body, bonnet

Low operating torque

Balance tail rod structure

Configure Lubricating oil nozzle configuration

Pressure: ANSI 3000, 5000, 10000PSI

Diameter: 1 13/16---4 1/16

Connection: thread, flange



## 井口设备

Wellhead equipment



套管头、油管头、三通、四通、  
防喷器等石油专用机械产品部件

The casing head, tubing head,  
three-way, four-way, BOP  
special petroleum machinery parts



设计标准: API6A

材料: 锻造合金钢

压力级: 2000、3000、5000、  
10000、15000PSI

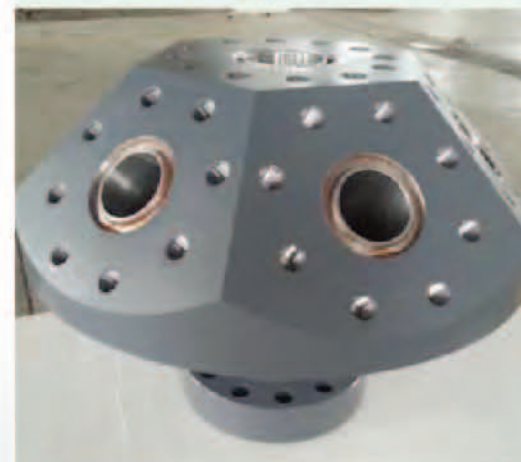
连接: 法兰

Design standard: API6A

Material: alloy steel forging

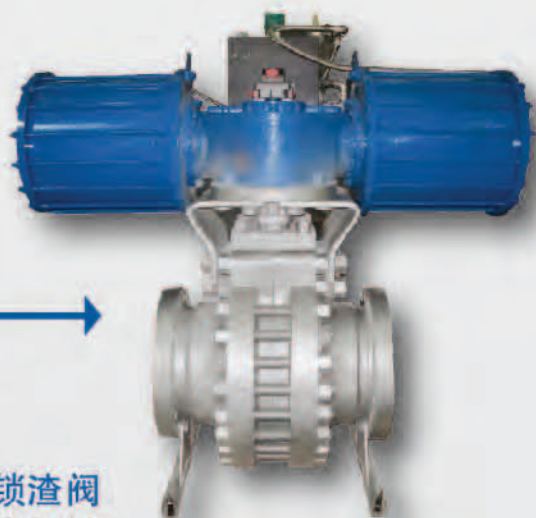
Pressure: 2000, 3000, 5000,  
10000, 15000PSI

Connection: flange



## 煤化工阀门

### Coal chemical industry valve



#### 锁渣阀

##### 设计特点:

两体式设计  
固定球设计  
球体: 不锈钢表面喷Ni60  
阀座: 采用阀前密封、密封喷焊Ni55  
防砂及金属宽带自刮削式结构  
阀座弹簧: 线弹簧外包氟橡胶  
阀杆: 防吹出结构、材料沉淀硬化钢  
最高压力级: ANSI 900LB  
最大口径: 16"  
连接: 法兰  
操作方式: 气动

#### Slag lock valve

##### Design features:

The two type design  
Fixed ball design  
Ball: stainless steel surface spray Ni60  
Seat: adopt the valve before sealing, sealing spray welding Ni55  
sand and metal broadband self scraping type structure  
The line spring seat spring: Epiboly of fluorine rubber  
Stem: blow out proof structure, material precipitation hardening steel  
The highest pressure: ANSI 900LB  
The maximum diameter: 16"  
Connection: flange  
Mode of operation: pneumatic



#### 黑水调节阀

##### 设计特点:

文氏管流路结构  
阀座为整体式  
阀杆阀瓣机械一体式、下导向结构  
阀头、阀座和出口流道的材质均为碳化钨  
阀杆表面喷涂碳化钨  
弹簧式双作用气缸执行机构  
进口的智能型阀门定位器  
调节特性: 等百分比/线性  
最高压力级: ANSI 1500LB  
最大口径: 12"  
连接: 法兰  
操作方式: 气动

#### Black water regulating valve

##### Design features:

The flow path structure of Venturi tube  
The valve seat is an integral type  
The valve stem and disc use of machinery integrated  
The lower guide structure  
The valve head, valve seat and the outlet flow channel are made of tungsten carbide  
Tungsten carbide spraying the surface of valve stem  
Spring type double acting cylinder actuators  
Imports in advanced Intelligent valve positioner  
Regulating characteristics: percentage / linear  
The highest pressure: ANSI 1500LB  
The maximum diameter: 12"  
Connection: flange  
Mode of operation: pneumatic

## 加氢阀

### Hydrogenation valve

用于有高压、高温和临氢(并含有硫化氢)场合, 其最高压力42MPa, 最高温度550°C。

For high pressure, high temperature and hydrogen (and containing hydrogen sulfide) occasion, the maximum pressure is 42MPa, the maximum temperature of 550°C.

#### 闸阀、截止阀、Y型截止阀、止回阀

##### 设计特点:

设计标准: ASME B16.34  
阀门试验: API 598  
中腔压力自密封、阀体自密封部位堆焊不锈钢内衬  
闸阀: 弹性楔形闸板  
截止阀: 密封二次节流技术、阀瓣全程导向  
止回阀: 内置式悬吊阀瓣  
密封硬质合金  
复合填料加碟簧活载荷  
最大口径: 24"  
最高压力级: ANSI 2500LB  
铸造材料: WCB、WC 6、WC 9、CF8C等  
锻造材料: A105、F11、F22、F321  
冶炼方法: 中频炉+AOD  
特殊要求:  $S \leq 0.015$ ,  $P \leq 0.020$   
无损探伤: 逐件射线探伤、铁磁性湿磁粉探伤、不锈钢PT探伤  
操作方式: 手动、齿轮、电动



#### Gate valve, globe valve, Y type globe valve, check valve

##### Design features:

Design standard: ASME B16.34  
Valve test: API 598  
Cavity pressure self sealing, self sealing parts welding stainless steel lining  
Gate valve: Flexible wedge  
Globe valve: Seal the secondary reduce expenditure technology and the entire process oriented  
Check valve: Valve disc with hangs and built-in valve body  
Seal hard alloy  
Composite filler with disc spring live load  
The maximum diameter: 24"  
The highest pressure: ANSI 2500LB  
Casting material: WCB, WC 6, WC 9, CF8C etc.  
Forging materials: A105, F11, F22, F321  
Smelting method: Intermediate frequency furnace +AOD  
Special requirements:  $S \leq 0.015$ ,  $P \leq 0.020$   
NDT: each valve by one ray testing, ferromagnetic wet magnetic particle inspection, inspection of stainless steel PT  
Mode of operation: manual operation, gear, electric