

**Zhejiang Zhongde Automatic Control Science
and Technology Joint Stock Co.,LTD**

**Qualification
Certificate**

1. Company profile

【1】 About us

Zhejiang Zhongde Automatic Control Science and Technology Joint Stock Co.,LTD (Company abbreviation: Zhongde technology, Stock code:831294) is a professional control valves manufacture intergrading research, development, production, sales and service. Since its establishment in 1992, Zhongde has been devoted to developing specialized technologies of shut-off valves, keeping us always at the leading position in Chinese shut-off valves industry. During more than twenty years of development, Zhongde personnel are building the brand of shut-off valves with specialization, concentration and perseverance. The products such as high performance butterfly valves, high performance ball valves, high temperature anti-wear ball valves, high temperature butterfly valves and quick shut-off gate valves with pneumatic, electric and electro-hydraulic driving are widely applied in petroleum, chemical industry, natural gas, coal chemical industry and other high-end fields, receiving deep trust from users.

Now Zhongde Group has set up the professional valve research and development center and first-class production platforms. It has successively obtained the ISO9001:2008 quality system certification, API6D/609 certification API607 fire safety certification and special equipment (pressure pipes) manufacturing license TS certification. It is a first-class supplier of SINOPEC, CNPC, CNOOC, CHEMCHINA, Shenhua Group, coal chemical industry and other fields. It has been successively awarded such honors as “China Famous Brand”, “Spark Model Enterprise in Zhejiang Province”, “High and New Tech Enterprise”, “Star Enterprise in Zhejiang Province”, and has been approved as a “Class AAA Creditable Enterprise” by the Industrial and Commercial Bank of China for five years in succession.

The company covers an area of 60 mu, the plant building area: nearly 38000 square meters, including 25000 square meters of production workshop, 5000 square meters of office area and 3000 square meters of staff dormitory. The registered capital is RMB66,446,072, and the total number of employees is 214.

The company has first-class automatic processing equipment, including various vertical / horizontal machining centers, large-scale CNC lathes, horizontal CNC boring and milling machines and more than 100 sets of special equipment; at the same time, it is equipped with professional automatic assembly line, crane, automatic flow painting line, plasma welding machine, transformer, air compressor station, various handling equipment and other complete supporting equipment. At the same time, the company has more than 50 sets of professional testing equipment and instruments, and more than 150 sets of various inspection tools and measuring tools, mainly including non-destructive testing equipment, pressure testing equipment, physical and chemical inspection equipment, material hardness testing equipment, metallographic analysis equipment, shape and position tolerance testing equipment, etc. Ensure that all links of incoming inspection, physical and chemical inspection, process inspection, pressure test and performance test can be monitored to ensure product quality.

After more than 20 years of efforts, the company has formed a valve production system dominated by gate valve, ball valve, butterfly valve and other control valves. The maximum diameter of the valve is 104", the maximum pressure is 2500 lb, and the service temperature range is -196 ~ 850 °C. It covers carbon steel, low temperature carbon steel, stainless steel, duplex stainless steel, high temperature alloy steel, Monel, Inconel, Hastelloy, titanium alloy and other materials.

“Customer satisfaction is regarded as our life”. For this, Zhongde has established 12 sales and service networks, which are creative both in breadth and depth of serving the markets. We can meet your demands. We will provide you with safe, reliable and trustworthy products and the value of our products is much higher than their price. Wherever you are, our team will offer serious, responsible, fast and high-quality services to you with their rich experience and professional knowledge. We always keep our service promise of “one telephone, arrival within one day and success in one step”.

“Human oriented, booming business by morals” is the core idea of Zhongde Enterprise, and the standard followed by zhongde personnel in conducting themselves and handling affairs. Zhongde personnel will offer high product quality and top-rangking services with the attitude of “meeting friends with morals”. Accumulating profoundly and working ceaselessly and unremittingly, Zhongde personnel are making all efforts to create an advanced manufacturing enterprise of high-end shut-off valves in China, accelerate the process of domesticization of shut-off valves and realize maximized customer satisfaction. Zhongde hopes to cooperate with you faithfully and create a brilliant future together!

We have spare parts warehouse, all necessary spare parts are set with inventory. In case of urgent need of the demander, it can timely organize delivery and arrive at the use site within 3 days after receiving the buyer's telephone (fax). In case of emergency, the company can send special vehicles or air freight in time to meet the emergency use requirements of the demander.

At the same time, the company has successfully used PLM and rep management software to establish a complete set of management system from production technology BOM distribution to production planning and scheduling, raw material procurement, supplier management, warehouse management, process management and customer management.

At present, the manufacturing center is preparing for the construction of MES intelligent chemical plant to transform "Zhongde manufacturing" into "Zhongde intelligent manufacturing".



【2】 Basic information table

No.	Project	Content
1	Vendor name	Zhejiang Zhongde Automatic Control Science and Technology Joint Stock Co.,LTD
2	Country	China
3	Nature of enterprise	Company limited(unlisted)
4	Registered capital	RMB66,446,070
5	Established Time	Nov.8,2007
6	Legal representative	Zhang zhongmin
7	Registered address	No.659, Changxing Avenue, Taihu Street,Changxing County, Huzhou City, Zhejiang Province 313000, P.R. China
9	Post code	313100
10	Contact	Chen rui
11	Telephone	15067228288
12	Fax	0572-6556888
13	Email	vip@zhongdegroup.com
14	Social credit code	91330500668348736X
15	Bank of deposit	Industrial and Commercial Bank of China Changxing sub- branch
16	Bank account	1205270019200139686
17	Bank code	102336227000

【4】 Major products

a. Major product introduction

·High-performance Sealing Butterfly Valve

Product Model: $W_{R/Y}$

Pressure rating: 0.6MPa~15.0Mpa; ANSI 150LB~900LB

Operating temperature: soft sealing (R) -40~+350°C, Hard sealing (Y) -40~+600°C

Leakage grade: soft sealing (zero leakage), Hard sealing: Class VI

Nominal diameter: DN: 50mm ~ 2400mm ANSI: 2in~96in

Product characteristics: Triple eccentric sealing structure is adopted for the hard sealing; double eccentric structure is adopted for the soft sealing; all the seals are of pre-tightening structure with excellent cut-off performance and regulation performance; seals are reliable and have long service life, capable of electric control, pneumatic control, hydraulic control, manual control and substituting for imported like products.

Applicable scope: Used for the industrial units of oil industry, chemical industry, coal chemical industry, electric industry, metallurgical industry, light industry and water treatment industry; the hard sealing is also applicable to areas with dust-containing or molecule-containing mediums.

·Insulating Jacket Sealing Butterfly Valve

Product Model: $WB_{R/Y}$

Pressure rating: 0.6MPa~11.0Mpa; ANSI 150LB~600LB

Operating temperature: soft sealing (R) -40~+350°C, soft sealing (Y) -40~+450°C

Leakage grade: soft sealing (zero leakage), Hard sealing: Class VI

Nominal diameter: DN : 50mm ~ 1800mm ANSI: 2in ~ 72in

Product characteristics: On the basis of high-performance sealing butterfly valve, the insulating jacket is added to the valve for thermal insulation effect of the mediums; the electric control, pneumatic control, hydraulic control and manual control can be realized.

Applicable scope: Applicable to the pipes with demand for thermal insulation of mediums of the industrial units of oil industry, chemical industry, coal chemical industry, electric power industry, metallurgical industry and light industry, e.g. sulfur recovery units, asphalt units, etc.

·High-temperature and Wear-resisting Ball Valve

Product Model: $VR_Y G$

Pressure rating: 1.6MPa~ 26.0MPa; ANSI 150LB~ 1500LB

Operating temperature: Common type -40~+450°C, High temperature type +450°C~+850°C

Leakage grade: Class VI

Nominal diameter: DN: 50mm ~ 600mm ANSI: 2in~24in

Product characteristics: The product is the special type high-temperature valve made of heat-resisting material; the special design of the inner chamber of the valve guarantees the action sensitivity of the valve at 850°C and high differential pressure, the achievement of Grade IV sealing and the excellent erosion resistance performance; the electric control, pneumatic control, hydraulic control and manual control can be realized.

Applicable scope: The product is the special type high-temperature valve made of heat-resisting material;

the special design of the inner chamber of the valve guarantees the action sensitivity of the valve at 850°C and high differential pressure, the achievement of Grade IV sealing and the excellent erosion resistance performance; the electric control, pneumatic control, hydraulic control and manual control can be realized.

·High-performance O-type Sealing Ball Valve

Product Model: R_{R/Y}

Pressure rating: 0.6Mpa~42.0Mpa; ASNI 150LB~2500LB

Operating temperature: soft sealing (R) -196~+350°C, Hard sealing: (Y) -196~+450°C

Leakage grade: soft sealing (zero leakage), Hard sealing: Class VI

Nominal diameter: DN: 15mm ~ 800mm ANSI: 1/2in~32in

Product characteristics: This product is divided into straight through valve with strong flow capacity and equal percentage of regulation performance. The product has simple structure, exquisite volume and light weight. It can realize electric and pneumatic multi-stage action, hydraulic and manual control.

Applicable scope: suitable for oil irrigation area, loading platform, pulp production, sewage treatment device and oil stable oil pipeline in petrochemical industry.

· Quick cutting off gate valve

Product Model: Z44H/Y

Pressure rating: 1.6Mpa~15.0Mpa ASNI 150LB~900LB

Operating temperature: Common type —40~+225°C, High temperature type ≤500°C

Leakage grade: Class VI

Nominal diameter: DN: 32mm ~ 1200mm ANSI: 1 1/4in~48in

Product characteristics: The joint surface of valve plate and valve seat is overlaid with wear-resistant and corrosion-resistant materials, which can improve the service life of the valve. The full bore flow capacity is large, and the electric, pneumatic, hydraulic and manual control can be realized.

Applicable scope: suitable for gas and liquid medium pipeline cutting or discharging in petrochemical, metallurgy, electric power, light industry and other industries, especially for remote program control.

·Flat Gate Valve

Product Model: Z43

Pressure rating: 1.6Mpa~11.0Mpa ASNI 150LB~900LB

Operating temperature: Common type—40~+225°C, High temperature type≤450°C

Leakage grade: Class VI

Nominal diameter: DN: 32mm ~ 1200mm ANSI: 1 1/4in~48in

Product characteristics: The reliable sealing is realized by use of the acting force of the medium, and the valve can be of structure with diversion hole and structure without diversion hole; the electric control, pneumatic control, hydraulic control and manual control can be realized.

Applicable scope: The product is applicable to conveying pipelines and storage equipment for refined oil products, the well head equipment for the petroleum and natural gas mining wells and the pipes for the mediums with suspended particles and fibers.

·Multi-stage Type Truck Loading Sealing Ball ValveProduct Model: ZSAR_R

Pressure rating: 1.6Mpa~6.4 Mpa ASNI 150LB~600LB

Operating temperature: Common type -40~+180°C, High temperature type ≤450°C

Leakage grade: Class VI

Nominal diameter: DN: 25mm~ 350mm ANSI: 1 1/4in~14in

Product characteristics: It is capable of various actions like one-stage opening and two-stage closing, two-stage opening and two-stage closing; the speed of switching valves is adjustable; the valve can be open or closed in occurrence of air source and power supply fault; both automatic and manual operation are available.

Applicable scope: Applicable to the cut-off and discharge of gas and liquid in the conveying pipelines of the automatic process control system and the automatic regulating system of the petrification sector, oil depot truck loading sector, metallurgical sector and electric power sector.

·High-performance V-type Sealing Ball ValveProduct Model: VR_y

Pressure rating: 1.6Mpa~11.0Mpa; ASNI 150LB~600LB

Operating temperature: Common type -40~+350°C, High temperature type -40~+450°C

Leakage grade: Class VI

Nominal diameter: DN: 25mm~ 500mm ANSI: 1in~20in

Product characteristics: V-type cut is characterized by the large regulating ratio and equal percent flow, and the balance adjustment of pressure and flow is realized; the valve element and valve seat structure with eccentric can reduce the abrasion to the valve itself; the electric control, pneumatic control, hydraulic control and manual control can be realized.

Applicable scope: For the industrial units of oil industry, chemical industry, coal chemical industry, electric industry, metallurgical industry, light industry, papermaking industry and water treatment industry, especially applicable to the mediums with fibers or fine particles.

·Insulating Jacket V-type Sealing Ball ValveProduct Model: VB_y

Pressure rating: 0.6MPa~6.3.Mpa; ASNI 150LB~300LB

Operating temperature: -40~+450°C

Leakage grade: Class V

Nominal diameter: DN :50mm ~ 300mm ANSI: 2in~12in

Product characteristics: On the basis of the high performance V-type sealed ball valve, the insulation jacket layer is added to achieve the insulation effect on the medium, with excellent cutting performance and adjustment performance.

Applicable scope: Suitable for thermal insulation pipeline of petrochemical, electric power, metallurgy, light industry and other industrial devices.

·Regulating Valve

Product Model: ZHA、ZHB

Pressure rating: 1.6MPa~10.0.Mpa; ANSI 150LB~600LB

Operating temperature: -40~+450°C

Leakage grade: Class V

Nominal diameter: DN : 15mm ~ 300mm ANSI: 1/2in~12in

Product characteristics: By adoption of the fluid pressure balance type valve element structure, the product is characterized by excellent dynamic stability and high regulation precision; the electric control and pneumatic control can be realized.