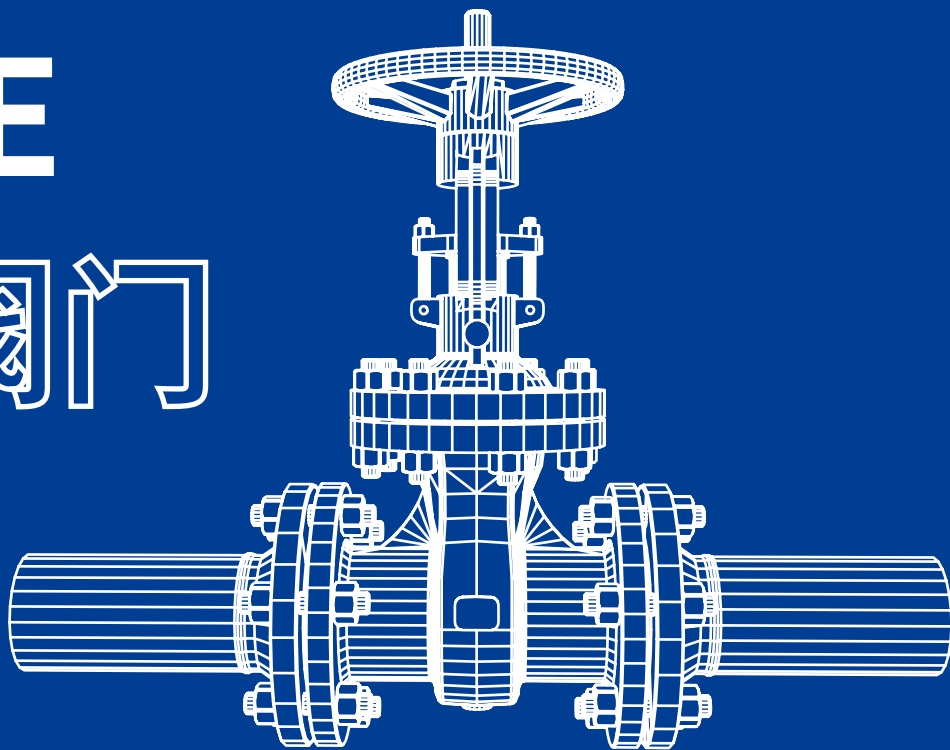


帝为  DKV
-----valve-----

MANUFACTURE HIGH QUALIATY VALVES

INDUSTRIAL
VALVE

工业阀门



广东帝为阀门有限公司

GUANGDONG DKV VALVE CO LIMITED





MANUFACTURE

HIGH

QUALITY

VALVES



DKV帝为阀门-用专业、实用的阀门经验为您提供更加合适管道工程方案。DKV帝为阀门源于具有38年管道工程经验的建大集团，于2019年在中国佛山创立，是一家专业的管道流体控制阀门研制公司。DKV引进国外德国和日本的先进流体阀门方案，经过多年的研发，带来了高品质的电动阀门、气动阀门、自控阀门、食品卫生级阀门、工业通用及水用阀门等。DKV客户涵盖环保、水处理、医药、食品、印染、新材料、石油、化工、天然气、电力、核电、矿山、机械制造、特种罐体制造、市政建筑、地产建筑等诸多领域。DKV帝为阀门通过：欧盟CE认证、ISO9001质量管理体系认证、ISO14001环境管理体系认证、OHSAS18001职业健康安全管理体系认证、德国莱茵TÜV金品诚企认证、国家权威检测质量合格产品证书、及其他证书。

我公司一贯坚持重合同、守信用的原则。我们愿以优质的产品和周到的服务，在国内及国际市场上完成自己的使命。随着市场的不断更新和升级，我们将继续致力于生产领域，不断提高技术水平。

DKV valve - with professional and practical valve experience to provide you with more suitable pipeline engineering solutions. DKV Valve originated from JIANDA Group, which has 38 years of pipeline engineering experience. It was founded in Foshan, China in 2019. It is a professional pipeline fluid control valve development company. DKV has introduced advanced fluid valve solutions from Germany and Japan. After years of research and development, it has brought high quality electric valves, pneumatic valves, automatic control valves, food sanitation valves, industrial valves and water valves, etc. DKV customers cover many fields such as environmental protection, water treatment, medicine, food, printing and dyeing, new materials, petroleum, chemical industry, natural gas, electric power, nuclear power, mining, machinery manufacturing, special tank manufacturing, municipal construction, real estate construction and so on. DKV valve through certification: European CE certification, ISO9001 quality management system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system certification, Germany TUV Verified Supplier Certification, national authority testing quality qualified product certificate, and other certificates.

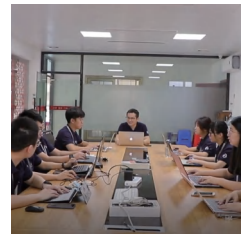
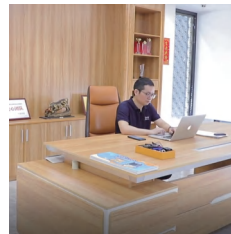
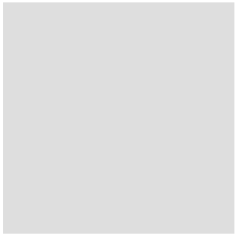
Our company always adheres to the principle of honoring contract and keeping good faith. We are willing to complete our mission in the domestic and international market with high quality products and considerate service. As the market continues to update and upgrade, we will continue to commit to the production field, and constantly improve the technical level.

人才团队

TALENTS

让人才与帝为共成长

帝为阀门有限公司积极致力于员工个人能力的培养和开发。帝为定期实施一系列的集体规模培训。如针对新人的始业培训，针对技术与管理人员的专业培训，以及“传帮带”模式。将业务需要的人才培养成为业内的最高水平，实现企业与员工的共同成长。



广东帝为阀门有限公司



COMPANY HONOR

公司荣誉



ZM^{BQ} 气动三通合流、分流调节阀
AX Pneumatic 3-way Converging/Diverging Control Valve

气动三通调节阀有合流和分流两种作用方式。

阀芯结构采用圆筒口，并采用阀芯侧面导向。

三通阀在某些场合可以替代两个二通阀和一个三通接管而得到广泛应用，常用于简单的配比调节。

Pneumatic High Pressure Control Valve is a kind of valve with upper guiding structure. It has compact valve structure, small pressure drop loss, large flow rate and wide adjustable range. The guiding area of the valve spool guiding part is large and has good vibration resistance. It has compact structure and large output force.

口径(Nominal Size) : DN25-300

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZJHPF46 气动衬氟调节阀
ZJHPF46 Pneumatic Fluorine Lined Control Valve

气动衬氟调节阀是自动化仪表系统中的执行单元，安装在介质输送管道上与其它仪表配套使用，以控制流量等参数，除具有可靠地电封性外，还具有耐酸（盐酸、硫酸、氢氟酸）碱等强腐蚀介质的独特特点，适用于调节剧毒的，贵重的，易挥发，易渗透的介质，因此，广泛用于化工，石油，冶金，医药，轻纺等工业自动化装置上调节流量。

Pneumatic Fluorine Lined Control Valve is actuated unit of the automation instrumentation system, which could install on the medium transportation pipeline and work together with instrument to control flow rate and other parameter. Besides of reliable sealing performance, it has the unique character of anti-acid (hydrochloric acid, sulfuric acid, hydrofluoric acid) and anti-alkali, applied to adjust poisonous, expensive, easy-volatile, easy-penetrative medium. So it is widely used in chemical, petroleum, metallurgical, pharmaceutical, light textile and other industrial automation devices to regulate the flow.

口径(Nominal Size) : DN15-300

压力 (Nominal Pressure) : 1.0-2.5MPa

材料 (Materials) : 铸钢(cast steel)
衬F46 (FEP) (fluorine lined 46 (FEP))
不锈钢(stainless steel)



HPS 气动高压调节阀

HPS Pneumatic High Pressure Control Valve

气动高压调节阀是一种上导向结构的调节阀，阀结构紧凑，压降损失小，流量大，可调范围广。阀芯导向部分的导向面积大，抗振性好。结构紧凑，输出力大。

HPS Type Pneumatic High Pressure Control Valve is a kind of valve with upper guiding structure. It has compact valve structure, small pressure drop loss, large flow rate and wide adjustable range. The guiding area of the valve spool guiding part is large and has good vibration resistance. It has compact structure and large output force.

口径(Nominal Size) : DN20-200

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZXT 气动隔膜阀

ZXT Pneumatic Diaphragm Valve

气动隔膜阀由气动薄膜执行机构和隔膜阀组成。隔膜阀体流通平滑，节流元件为弹性隔膜，阀盖上无填料函。因而阀流通能力比一般调节阀大，无泄漏，流量特性为快开特性，可采用阀门定位器来改善调节特性，在许用压差范围内可作切断阀用。气开，气关作用由正反执行结构实现。该阀适用于高粘性流体，悬浮颗粒，纤维介质和有毒介质、腐蚀性介质的调节场合。

Pneumatic Diaphragm Valve is composed of pneumatic diaphragm actuator and diaphragm valve. Because the valve has smooth flow channel, the restricting element is elastic diaphragm and there is no packing box on the bonnet, circulation ability is better than common control valve without leakage. The flow character of this valve is quickly open, the way to improve adjustable character is usage of locator. Within suitable differential pressure it could be used as shut off valve. The positive and negative actuator can make pneumatic on and pneumatic off happen. This valve is suitable for adjustment of high viscous liquid, suspended particle, textile fiber, poisonous medium and corrosive medium.

口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 1.0-6.4MPa

材料 (Materials) : 铸钢衬F4或F46
(Cast Steel lined F4 or F46)



HPS 气动高压调节阀

HPS Pneumatic High Pressure Control Valve

型气动高压调节阀就用于锅炉喷水减温器的喷水管道上，用来调节喷水量，以达到调节锅炉过热器或再热器气温的目的。

Type Pneumatic High Pressure Control Valve is applied on boiler water spray desuperheater's spray pipe, to adjust the amount of water spray, so as to regulate the temperature of boiler superheater or reheater.

口径(Nominal Size) : DN20-200

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZM^A_BS 气动角形调节阀

ZM^A_BS Pneumatic Angle Control Valve

气动薄膜角型阀是专为高压系统使用的一种特殊阀门，它通过改变信号来变化阀门的流通截面，从而达到流量的改变，完成对介质的调节。

本产品广泛应用于化工、石油、轻工等行业中的自动调节。

Pneumatic Angle Control Valve is a special valve used for high pressure system. It changes flow area through changing signal to adjust flow rate and finally complete the adjustment of medium.

This valve is widely used for automatic control in chemical, petroleum, light industry and so on.

口径(Nominal Size) : DN15-100

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZMAN-16D 型气动薄膜低温双座调节阀
ZMAN-16D Pneumatic Diaphragm Low Temperature Double Seats Control Valve

气动薄膜低温双座调节阀，采用长颈型上阀盖，以保证密封填料在允许温度范围内工作。控制低温气体，液体介质

Pneumatic Diaphragm Low Temperature Double Seats Control Valve adopts long neck upper bonnet to ensure that the seal packing works within the allowable temperature range. It can control low temperature gas and liquid.

口径(Nominal Size) : DN25-200

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 不锈钢(stainless steel)



ZDL^P 电动精小型单座器调节阀
ZDL^M Small Electric Single Seated Control Valve

电动单座套筒调节阀是由电动执行机构和单座、套筒组成，而具备了各种阀的特点。该阀可以达到对工艺流量压力、温度等多数的自动控制。广泛用于冶金、轻工、食品、化工等工业的自动控制中。

Electric Single Seated Sleeve Control Valve is composed of electric actuator, single seat and sleeve, while having the characteristics of various valves. It achieves the automatic control of flow pressure and temperature. This valve is widely used for automatic control in metal-lurgy, light industry, food, chemical and so on.

口径(Nominal Size) : DN100-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



T947 型电动套筒调节阀
T947 Pneumatic High Pressure Control Valve

电动套筒调节阀是由SKZ和阀体两部分组成。应用于中压锅炉的给水管道上，供调节锅炉给水流量用。

Electric Sleeve Control Valve is composed of SKZ and body of valve. It is applied to water feeding pipeline of medium pressure boiler, which is used to adjust feed water of boiler.



口径(Nominal Size) : DN25-300

压力 (Nominal Pressure) : 1.6-10.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)

ZDL^P 电子式电动单、双座套筒调节阀
M Electric Single Seated/Double Seated Sleeve Control Valve

电子式电动单，双座套筒调节阀是由3810L电子式执行器和单双座阀组成，该阀具有不平衡力很小，允许压差大，流通能力大等特点，适用于泄漏量要求严格的系统控制。

Electric Single Seated/Double Seated Sleeve Control Valve is composed of 3180L type electric actuator and single or double seated valve. This valve has characteristics of small unbalance force, big differential pressure, and big flow capacity and so on, which is applied to system control with strict leakage requirement.



口径(Nominal Size) : DN25-300

压力 (Nominal Pressure) : 1.6、2.5、4.0、6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)

ZDLN 智能型电子式电动单座双座、套筒调节阀
Intelligent Type Electric Single Seated/
Double Seated Sleeve Control Valve

智能型电子式电动单座、双座、套筒调节阀是由Ps智能型直行程电动执行机构和单座阀组成，它直接接受4-20mA/4-12mA/2-22mA/0-5V/1-5V等控制信号，输出隔离4-20mA阀位反馈信号，具有自诊断功能，使电机带动减速机，运行而产生轴向推力，阀芯作相应移动，从而达到对压力、流量、温度、液位等工艺参数的调节，便可轻松满足您对高性能电动调节阀的需求，可以广泛地适用于电力、石油、化工、冶金、医药、轻工、建材、锅炉等行业。

Intelligent Type Electric Single Seated/Double Seated Sleeve Control Valve is composed of Ps intelligent straight travel electric actuator and single seat valve, which directly accepts 4-20mA/4-12mA/ 12-22mA/0-5V/1-5V and other control signals, and output isolated 4-20mA valve position feedback signal. It has self-diagnostic function, so that the motor drives the reducer to run and generate axial thrust, and the spool moves accordingly, to achieve the adjustment of pressure, flow, temperature, liquid level and other process parameters, which can easily meet your needs for high-performance electric control valves. This valve is widely used in electric power, petroleum, chemical, metallurgy, medicine, light industry, building materials, boilers and other industries.

口径(Nominal Size) : DN25-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZDLS型电动角形调节阀
ZDLS Electric Angle Control Valve

电动角形调节阀是专为高压系统使用的一种特殊阀门，它通过改变信号来变化阀门的流通截面，从而达到流量的改变，完成对介质的调节。本产品广泛用于化工、石油、轻工等行业中的自动调节。

Electric Angle Control Valve is a special valve designed for high pressure system, which changes the flow section of the valve by changing the signal, so as to achieve the change of flow and complete regulation of the medium. This product is widely used for automatic control in the chemical, petroleum, light industry and other industries.

口径(Nominal Size) : 15-100

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZDL^Q_X 型电子式三通合流, 分流调节阀 Electric Three Way Control Valve

电子式电动三通调节阀是由3810L型电子式电动执行机构和三通阀调节机构组成。电动调节机构内置伺服系统, 无需另配伺服放大器, 有输入讯号及电源即可控制运转, 连线简单, 调节机构有合流和分流两种作用方式, 在某些场合可以替代两相三通阀和一个三通接管而得到广泛应用。常用于热交换器的两相调节及简单的配比调节。

Electric 3-Way Control Valve is composed of 3180L type electric actuator and three way control valve. There is servo system in electric actuator, so extra servo system is not needed. If there is input signal and power, it can control the operation with simple connection. The control valve has two modes of action: confluence and diverge. In certain situation, it can replace two-phase three way valve and a three way pipe, and is widely used. It is commonly used for two-phase regulation of heat exchangers and simple proportional regulation.

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



T961^Q 型给水调节阀 Feed Water Control Valve

给水调节阀主要用于减温、减压装置, 调节减温水量, 同时也广泛用于各种锅炉给水管道, 供调节流量之用。

Feed Water Control Valve is mainly used for temperature reduction and pressure reduction devices to regulate the amount of temperature-reduction water. It is also widely used in a variety of boiler feed water pipeline for regulating the flow of water.

口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZAZ型电动单座、双座调节阀

ZAZ Electric Single Seated/Double Seated Control Valve

电动单座、双座调节阀由电动执行机构与各品种的阀体（单座阀、双座阀）组配而成，而具备了各种阀的特点。电动调节阀以单相交流220V电源为动力，接受统一的标准电信号0-100mA DC或4-20mA DC，自动的控制阀门开度，达到对工作流量、压力、温度、液位等参数的自动控制，是生产过程自动调节的组成之一。广泛用于电力、冶金、轻工、食品、石油、化工等工业自动控制中。

Electric Single Seated/Double Seated Control Valve is composed of electric actuator and various kinds of valve body (single seated/double seated), while having the characteristics of various valves. The electric control valve is powered by single-phase AC 220V power supply and accepts the unified standard electric signal 0-100mA DC or 4-20mA DC to automatically control the valve opening degree. It achieves automatic control of working flow, pressure, temperature, liquid level and other parameters, which is one of the components of automatic regulation of production process. This product is widely used for automatic control in the electric power, metallurgy, light industry, food, petroleum, chemical and other industries.

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZAZPF46型电动衬氟波纹管调节阀

ZAZPF46 Electric Fluorine Lined Bellows Control Valve

电动衬氟波纹管调节阀，是由电动执行机构和衬氟阀合成。是生产过程中的自动调节环节之一。由于阀的内腔及内件均衬氟，又使用波纹管代替填料密封，因而适用于调节强腐蚀和有毒、易挥发气、液体介质，在化工、石化、冶金、医药行业中得到广泛应用。

Electric Fluorine Lined Bellows Control Valve is composed of electric actuator and fluorine lined valve. It is one of the automatic regulating links in the production process. Since the valve's inner cavity and inner parts are lined with fluorine, and the bellows is used instead of packing seal, it is suitable for regulating strongly corrosive and toxic, volatile gas and liquid media, and is widely used in chemical, petrochemical, metallurgical and pharmaceutical industries.

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-2.5MPa

材料 (Materials) : 铸钢衬F4(F46)(cast steel fluorine lined F4 (F46))



T940H型电动回转式调节阀 T940H Electric Rotary Control Valve

电动回转式调节阀是DKJ型单元组合仪表中的执行机构，它接受统一的标准信号0-10mA (DC)、4-20mA(DC) 经伺服放大器放大，使电机带动减速器运行而产生轴向推力，使阀芯作相应移动，从而达到对压力、流量、温度、液体等工艺参数的调节。

Electric Rotary Control Valve is the control actuator in the DKJ type unit combination instrument. It accepts the unified standard electric signal 0-10mA (DC) and 4-20mA (DC), which is expanded by servo amplifier, and the motor drives the reducer to run and generate axial thrust, while the spool moves accordingly, to achieve the adjustment of pressure, flow, temperature, liquid and other process parameters.

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



T966^H_Y 电动锅炉给水型调节阀 Electric Boiler Feed Water Control Valve

调节阀，此阀门安装在锅炉喷水减温器的喷水管道上，用来调节喷水量，以达到调节锅炉过热蒸汽气温的目的，也可以用于其它锅炉给水管道，调节给水流量。

Control Valve is installed on the boiler water spray desuperheater's spray pipe, to adjust the amount of water spray, and regulate the boiler superheated steam temperature. It can also be used in other boiler feed water pipes, to adjust the feed water flow.

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



T962Y型电动高压差调节阀 T962Y Electric High Differential Pressure Control Valve

电动高压差调节阀由直行程电动执行机构和阀体两部分组成，阀门使用多级降压的办法可防止气蚀和噪音，能平稳地调节流量。

Electric high differential pressure control valve is composed of straight travel electric actuator and valve body. The valve adopts multilevel pressure reduction method to prevent cavitation and noise, and adjust the flow smoothly.



口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)

STD型高加疏水阀调节阀 STD Type High Pressure Heater Drain Control Valve

高加疏水调节阀是一种压力平衡型的单座调节阀，也是三级套筒节流的一种特殊结构的调节阀，控制饱和水流经阀门防止出现空化现象，主要用于火力发电厂高加疏水使用，也可以作为除氧器的水位调节和高压蒸汽压力的调节。

High Pressure Heater Drain Control Valve is a pressure-balanced single seated control valve, which also belongs to three level sleeve throttling control valve with special structure. It is used to control saturated water through valve to prevent cavitation. It is applied to drain water of thermal power station, control water for deaerator and control pressure for high pressure steam.

口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZDLSY电动智能型疏水阀 ZDLSY Electric Intelligent Type Drain Valve

电动智能型疏水阀由新系列电动执行机构和Y型疏水阀两部分组成，Y型疏水阀是具有特殊结构的调节阀。阀体两端为焊接式，适用于特定的配套。

Electric Intelligent Type Drain Valve is composed of a new-series electric actuator and a Y-type drain valve. The Y-type drain valve is a control valve with a special structure. Both ends of the valve body are welded, and suitable for specific matching.



口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 1.6-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)

ZZY型自力式压力调节阀 ZZY Self-operated Pressure Control Valve

自力式压力调节阀是不需要任何外在能源，利用被调介质自身能量来实现自动调节的产品。压力设定值在运行中可随意调整，动作灵敏，密封性能好，因而广泛用于石油、化工、电力、食品、轻纺等各种工业设备中各种气体、液体及蒸汽介质减压、稳压的自动制作中。

Self-operated Pressure Control Valve does not need any external energy, but it takes the energy of controlled media to self regulate. The pressure setting value can be adjusted at will during operation, with sensitive action and good sealing. It is widely used in petroleum, chemical, electric power, food, light textile and other industrial equipment, for the automatic control of pressure reduction and pressure stabilization for gas, liquid and steam.

口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 10.0-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



V230自力式调节阀 V230 Self-operated Control Valve

自力式调节阀类也称直接作用调节阀，它不需要外部能源，直接利用被调介质的能量来推动调节机构，实现自动控制。自力式调节阀可以实现温度、压力、压差、能量等参数的调节。自力式温度调节阀，只要将温包插入到调温的管路中，就可以感受温度的变化，有较宽的温度设定范围，调节方便。有超温过载保护措施，安全可靠。温度设定方便，运行期间也可连续设定。

Self-operated control valve is also called direct acting control valve, which does not need any external energy, but instead takes the energy of controlled media to self regulate. It can realize the adjustment of temperature, pressure, differential pressure, energy and other parameters. As long as the temperature package is inserted into the pipeline for temperature regulation, it can feel the change of temperature. It has a wide range of temperature setting, and is easy to adjust. There are over-temperature and overload protection measures, and so it is also safe and reliable. The temperature is easy to set and can be set continuously during operation.

口径(Nominal Size) : DN15-250

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
不锈钢(stainless steel)



ZZVYP自力式带指挥器减压阀(供氮阀)

ZZVYP Self-operated Decompression Valve with Commander (Nitrogen supply valve)

自力式带指挥器减压阀（简称供氮阀）无需外加能源，能在无电、无气的场合工作，既方便、又节约能源，降低成本；氮封装置供氮、泄氮压力设定有效面积大，设定弹簧刚度小，动作灵敏，装置工作平稳；采用无填料设计，阀杆所受磨损力小，反应迅速，控制精度高；为确保储藏的安全，需在罐顶设置呼吸阀；呼吸阀仅起安全作用，避免了常规氮封装置中启闭频繁易损坏的缺陷。

Self-operated Decompression Valve with Commander (referred to as nitrogen supply valve) does not need any external energy, and can work without electricity and gas, which is convenient, energy-saving and cost-reducing. The nitrogen sealing device has a large effective area for pressure setting of nitrogen supply and nitrogen discharge, and has small setting of spring stiffness, thus it's action is sensitive, and works smoothly. It adopts a design of no packing, so the valve stem has little wear, and it has rapid response, and high control accuracy. To ensure the safety of storage, a breathing valve needs to be set at the top of the tank. The breathing valve only plays a safety role, avoiding the defects of the conventional nitrogen sealing device that is easily damaged by frequent opening and closing.

口径(Nominal Size) : DN65-250

压力 (Nominal Pressure) : 1.6-25MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZZV型自力式微压调节阀

ZZV Self-operated Micro Pressure Control Valve

自力式微压调节阀，采用平衡单座阀在运行中可任意对设定值进行调整等特点，因而适用于各种工业炉燃烧系统燃料气体，石油制品或油库贮藏保护气体与热处理保护气体的微压自动调节等场合。

Self-operated Low pressure Control Valve adopts balanced single seated valve, can arbitrarily adjust the setting value during operation. Thus it is suitable for micro pressure automatic regulation occasions like various industrial furnace combustion system fuel gas, petroleum products or oil storage protective gas and heat treatment protective gas.



口径(Nominal Size) : DN15-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)
不锈钢(stainless steel)

T40H型手动高压回转式调节阀

ZZVYP Self-operated Decompression Valve with Commander (Nitrogen supply valve)

主要由阀体、套筒、阀瓣、阀杆等零件组成。套筒和阀瓣上都开有节流孔。通过阀瓣在阀座内回转来改变过流面积，调节流量。阀盖上设有开度指示标尺以显示阀门的开度状态。

Manual High Pressure Rotary Control Valve is mainly composed of valve body, sleeve, valve flap, valve stem and other parts. There are throttle holes on the sleeve and valve flap. Through the valve flap in the valve seat to change the overflow area, adjust the flow. The valve cover is equipped with an opening indicator scale to show the opening status of the valve.



口径(Nominal Size) : DN20-100

压力 (Nominal Pressure) : 1.6-32.0MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)

T40H大连式手动调节阀 T40H Dalian Type Manual Control Valve

自力式温度调节阀最大的特点是：无需任何外加能源，利用被调节介质的能量，实现温度的自动调节。温度调节范围宽，安全可靠，因而广泛用于石油、化工、电力、冶金、供热制冷等设备的温度自动调节中。

The most important feature of the self-operated temperature control valve is that it does not need any external energy, but it takes the energy of controlled media to self regulate temperature. It has wide range of temperature regulation, and is safe and reliable. Therefore, it is widely used in the automatic temperature regulation of petroleum, chemical, electric power, metallurgy, heating and cooling equipment.



口径(Nominal Size) : DN15-600

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
不锈钢(stainless steel)

ZZWP型自力式温度调节阀 ZZWP Type Self-operated Temperature Control Valve

自力式温度调节阀最大的特点是：无需任何外加能源，利用被调节介质的能量，实现温度的自动调节。温度调节范围宽，安全可靠，因而广泛用于石油、化工、电力、冶金、供热制冷等设备的温度自动调节中。

The most important feature of the self-operated temperature control valve is that it does not need any external energy, but it takes the energy of controlled media to self regulate temperature. It has wide range of temperature regulation, and is safe and reliable. Therefore, it is widely used in the automatic temperature regulation of petroleum, chemical, electric power, metallurgy, heating and cooling equipment.



口径(Nominal Size) : DN20-200

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
不锈钢(stainless steel)

ZZWPE自力式电控温度调节阀

ZZWPE Self-operated Electronic Temperature Control Valve

自力式电控温度调节阀（适用于较大口径及导热油控制），该阀最大的特点只需要普通220V电源，利用被调介质自身能量直接对蒸汽、热水、热油与气体等介质的温度实行自动调节和控制，亦可使用在防止对过热或热交换场合。该阀结构简单，操作方便，选用调光范围广、响应时间快、密封性能可靠，并可在运行中随意进行调节。因而广泛用于化工、石油、食品、轻纺、宾馆与饭店等部门的热供水供应。

Self-operated Electronic Temperature Control Valve is for larger bore and heat-conducting oil control. The biggest feature of the valve is that it only requires ordinary 220V power supply, and takes the energy of controlled media to auto regulate and control the temperature of steam, hot water, thermal oil, gas and other media. The valve structure is simple, and is easy to operate. It chooses a wide range of dimming, response quickly, with reliable sealing, and can be adjusted at will during operation. Thus it is widely used in hot water supply in chemical, petroleum, food, light textile, hotels and restaurants and

口径(Nominal Size) : DN20-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)
不锈钢(stainless steel)



ZMHN型直接作用压力调节阀

ZMHN Type Direct Acting Pressure Control Valve

直接作用压力调节阀，用来自动调节温度在200°C以内的非侵蚀性气体、石油、水，压力为给定值。阀后式用来保持调节阀后的管道内压力为恒定值。阀前式调节阀前面的管道内压力为恒定值。

Direct Acting Pressure Control Valve is used to self regulate non-aggressive gas, petroleum and water that lower than 200°C, and the pressure is a given value. The post-valve type is used to keep the pressure of pipeline after the control valve at a constant value. And the pre-valve type is used to keep the pressure of pipeline before the control valve at a constant value.

口径(Nominal Size) : DN25-200

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)
不锈钢(stainless steel)



ZJH P 系列精小型气动单座套筒调节阀
Series Small Pneumatic Single Seated Sleeve Control Valve

精小型气动单座套筒调节阀由气动多弹簧薄膜执行机构和低流阻单座阀组成，新型执行机构高度低、重量轻、装校简便，新型阀体结构紧凑、流道通畅，具有大的流量系数。

ZJHM系列气动单座套筒调节阀形小、体轻、高性能、大容量，是新一代通用调节阀产品。它适用于一般流体介质和工艺条件的生产过程控制系统。本产品由气动多弹簧、气动执行机构和低流阻套筒组成，本阀使用的是平衡型阀芯，不平衡力小，允许压力差大，操作稳定。比普通单双座调节阀噪声降低、结构简单、装卸方便。

Small Pneumatic Single Seated Sleeve Control Valve is composed of pneumatic multi-spring diaphragm actuator and low flow resistance single seated valve. The new actuator is low in height, light in weight, easy to install and adjust, and the new valve body is compact with smooth flow channel and a large flow coefficient.

ZJHM Series Pneumatic Single Seated Sleeve Control Valve is small in shape, light in weight, with high performance and large capacity, which is a new generation of general-purpose control valve products. It is suitable for general fluid medium and the production process control system. This product consists of pneumatic multi-spring, pneumatic actuator and low flow resistance sleeve. The valve uses a balanced spool, which has small unbalance force, allowing a large pressure difference, and operate stably. It has lower noise, simple structure and easy loading and unloading than common single and double seated control valve.

口径(Nominal Size) : DN20-200

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



ZMAN P 型气动薄膜单座双座调节阀
Pneumatic Diaphragm Single/Double Seated Control Valve

气动薄膜调节阀吸取了部分CV3000的特点，由多弹簧执行机构和双座调节阀组成，本阀比普通双座调节阀重量轻，外形美观，阀芯采用平衡式结构，压差大，流量大，适用于泄露无严格要求的场合。

Pneumatic Diaphragm Control Valve absorbs some of the characteristics of the CV3000, and is composed of a multi-spring actuator and a double seated control valve. Compare to ordinary double seated control valve, this valve is lighter in weight, and more beautiful in appearance. Its spool adopts balanced structure, with large differential pressure and large flow rate, which is suitable for the occasion where leakage is not strictly required.

口径(Nominal Size) : DN25-300

压力 (Nominal Pressure) : 1.6-6.4MPa

材料 (Materials) : 铸钢(cast steel)、
铬钼钢(chromium-molybdenum steel)、
不锈钢(stainless steel)



382L直行程智能数显式电动执行机构 382L Straight Travel Intelligent Digital Display Electric Actuator

数显式智能型电动执行机构控制器是本公司在原智能控制器的基础上融合了当今的国际流行的先进单片微处理器系统设计的新一代控制器，具有性能可靠、功能完善、适用性强、调测简单、操作方便等特点；适用于4-20mA电流信号控制阀门的场所，如发电、化工、冶金、轻工、锅炉等行业。



Intelligent digital display electric actuator controller is a new generation controller designed by our company on the basis of the original intelligent controller which is integrated with today's internationally popular advanced single-chip microprocessor system. It has features like reliable performance, perfect function, strong applicability, simple adjustment and measurement, easy operation, etc. It is suitable for places using 4-20mA control valves, such as power generation, chemical industry, metallurgy, light industry, boiler and other industries.

推力 (Thrust) : 0.8KN-26KN(千牛kilonewton)

电源 (Power supply) : AC220V/AC380V

控制精度(Control accuracy) : W1%

PSL型智能直行程电动执行机构 PSL Intelligent Straight Travel Electric Actuator

智能直行程电动执行机构，它是电动单元组合仪表DDZ系列中的执行单元产品之一，是工业过程测量和控制的系统中执行调节机构。接收标准4-20mA信号，采用永磁同步电机为驱动电机，微处理数字控制电路和机械传动组合成一种科技创新的智能化仪表，而且还可与HART协议、FF协议现场总线控制系统用作终端执行元件，被广泛应用于石油、化工、冶金、电站、轻纺、食品、医药、饮料等工业部门中。



Intelligent Straight Travel Electric Actuator is one of the execution unit products in DDZ series of electric unit combination instrument, and is an execution regulator in the system of industrial process measurement and control. It receives standard 4-20mA signal, adopts permanent magnet synchronous motor as driving motor. Microprocessor digital control circuit and mechanical transmission are combined into a kind of intelligent instrument of scientific and technological innovation, and it also can be used as terminal actuator with HART protocol and FF protocol fieldbus control system. is widely used in petroleum, chemical, metallurgy, power station, light textile, food, medicine, beverage and other industrial sectors.

推力 (Thrust) : 1.0KN-25KN(千牛kilonewton)

电源 (Power supply) : AC220V

控制精度(Control accuracy) : $\pm 1\%$

HEP型电气阀门定位器 HEP Pneumatic Valve Positioner

电气阀门定位器是气动执行器配套的附件。新产品用以将0-10及4-20mA的电
信号，经定位器转换成气操作压力，此时驱动执行机构，使调节阀“信号与阀位”
成比例关系，实现正确定位。

新产品特点：具有单输出和双输出的功能，阀门位置反馈有直线行程和转角位
移。配用拨动薄膜弹簧执行机构和气动活塞式执行机构。改变调节阀的动作方式，
气开，气关随意改变。新产品具有一般型和防爆型代共选用，输入信号除标准信号
外，可供分程控制段幅信号。

Pneumatic Valve Positioner is an accessory for pneumatic actuator. The
new product converts the electric signal of 0-10V and 4-20mA into pneumatic
operating pressure by the positioner, and then drives the actuator to make
"signal and valve position" of the control valve proportional, to achieve correct
positioning.

Features of new product: with single output and double output function;
valve position feedback with straight travel and rotary angle displacement. By
using the diaphragm spring actuator and pneumatic piston actuator, the action
modes of control valve are changed. Air open and air close can be changed at
will. The new product has general type and explosion-proof type for selection.
In addition to the standard signal, segment amplitude signal for range control
can also be provided.



YT-1000 型电气阀门定位器 YT-1000 Pneumatic Valve Positioner

防爆阀门定位器是一种从控制器或控制系统中接收4-20mA信号，
并向直行程（角行程）拨动执行机构输送空气来控制阀门位置的装置。

Explosion-proof valve positioner is a device that receives
4-20mA signals from a controller or control system, and
controls the valve position by delivering air to a straight travel
(angle travel) actuator.



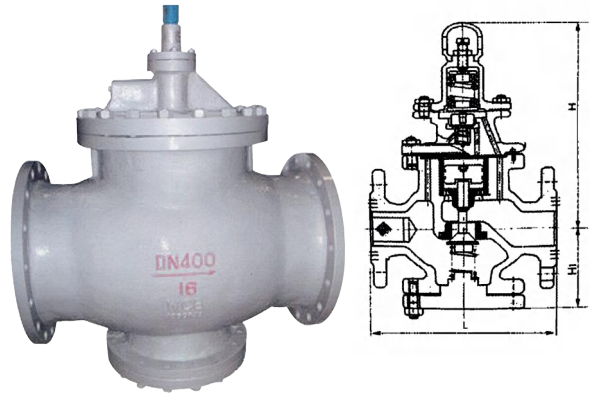
Y43H蒸汽减压阀
Y43H Steam Pressure Reducing Valve

本系列减压阀属于先导活塞式减压阀。由主阀和导阀两部分组成。主阀主要由阀座、主阀盘、活塞、弹簧等零件组成。导阀主要由阀座、阀瓣、膜片、弹簧、调节弹簧等零件组成。本产品在普通减压阀基础上作了很大改进，加大了活塞面积，改变了节流结构，改变了密封形式，加大了过流面积等等，从而在提高灵敏度、流量、寿命等方面大大改善了性能。

本产品主要用于蒸汽管路，适用于流量大、流量变化大、进口压力变化大的蒸汽管路。

This series of pressure reducing valves are pilot piston type pressure reducing valves, which are composed of two parts: main valve and pilot valve. The main valve is mainly composed of valve seat, main valve disc, piston and spring. And the pilot valve is composed of valve seat, valve disc, diaphragm, spring and adjusting spring. This product has been greatly improved on the basis of common pressure reducing valves by increasing the piston area, changing the throttling structure and the sealing form, increasing the overflow area, etc., thus its sensitivity, flow, life and other performance are improved.

This product is mainly applied on steam pipeline, suitable for steam pipeline with large flow rate, large change in flow rate and inlet pressure.



主要零部件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	WCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13
缸套、活塞 Cylinder Sleeve, Piston	铝铁青铜
膜片 Diaphragm	1Cr18Ni9
活塞环 Piston Ring	合金铸铁/对位聚苯 Alloy cast iron/Para-polyphenyl
导阀座、导阀杆 Pilot Valve Seat/Rod	2Cr13
主阀弹簧 Main Valve Spring	50CrVA
导阀主弹簧 Pilot Valve Main Spring	50CrVA
调节弹簧 Adjusting Spring	60Si2Mn

主要技术参数和性能指标
Main Technical Parameters And Performance Indicators

公称压力(MPa) Nominal Pressure (MPa)	1.5	2.5	4.0	8.4	10.0	16.0
壳体试验压力(MPa) Shell Test Pressure (MPa)	2.4	3.75	6.0	9.6	15.0	24.0
密封试验压力(MPa) Seal Test Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
最高进口压力(MPa) Maximum Inlet Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
出口压力范围(MPa) Outlet Pressure Range (MPa)	0.04~1.0	0.05~1.6	0.08~2.5	0.2~3.5	0.5~3.5	0.5~4.5
压力特性偏差(MPa)△P2P Pressure Characteristic Deviation (MPa)△P2P	GB12246—1989					
流量特性偏差(MPa)P2G Flow Characteristics Deviation (MPa)P2G	GB12246—1989					
最小压差(MPa) Minimum Differential Pressure(MPa)	0.07	0.1	0.15	0.4	0.5	0.8
渗漏量 Leakage Amount	GB12245—1989					

流量系数 (Flow Coefficient (Cv))

DN	50	65	80	100	125	150	200	250	300	350	400	500
CV	1	2.5	4	6.5	9	16	25	36	64	100	140	250

外形尺寸 (PN6.4-4.0) 单位:mm
Dimensions (mm)

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
1.6/2.5MPa	4.0MPa			
15	160	180	265	85
20	160	180	265	85
25	180	200	280	95
32	200	220	280	95
40	220	240	290	105
50	250	270	300	130
65	280	280	315	145
80	310	330	330	170
100	350	380	405	200
125	400	450	450	225
150	450	500	485	265
200	500	560	570	290
250	600		640	325
300	800		740	360
350	850		810	395
400	900		950	430
500	950		1080	500

外形尺寸 (PN6.4-16.0) 单位:mm
Dimensions (mm)

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
6.4MPa	10.0/16.0MPa			
15	180	180	280	100
20	180	200	280	100
25	200	220	300	115
32	220	230	300	115
40	240	240	315	130
50	270	270	340	135
65	300	300	355	150
80	330	330	370	175
100	380		450	205
125	450		510	235
150	500		555	245
200	560		640	300
250	600		720	335
300	800		830	375
350	850		880	410
400	900		1020	445
500	950		1080	515

Y42X稳压减压阀

Y43X Pressure-reducing-and-maintaining Control Valve

Y42X型减压稳压阀，是一种以活塞代替膜片的压力调节阀。比膜片式提高寿命三倍以上。口径小于DN50的建议选用Y110和Y116（螺纹连接）的隔膜型减压阀；口径大于等于DN50的建议选用Y42X（法兰连接）的活塞型减压阀。

该类阀门属于可调节型减压阀，阀后的压力可根据需要调节，投入使用后阀后压力始终减至并稳定在设定值，不因阀前压力、流量的波动而改变。阀门选材优质，性能可靠，使用寿命长。

TY42X pressure-reducing-and-maintaining control valve is a pressure control valve with piston instead of diaphragm. It has more than three times longer life than the diaphragm type. For diameters less than DN50, it is recommended to use Y110 and Y116 (threaded connection) diaphragm pressure valves. For diameters equal or larger than DN50, it is recommended to use Y42X (flange connection) piston type pressure reducing valve.

This kind of valve belongs to adjustable pressure reducing valve, the outlet pressure can be adjusted according to the need. After using, the outlet pressure will reduce and stay stable in the set value, and does not change due to the fluctuation of the inlet pressure and flow. The valve is made of high quality materials, has reliable performance and long service life.

主要零部件材料

Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	铸铁、球铁、铸钢 Cast iron, ductile iron, cast steel
调节弹簧 Adjusting Spring	硅锰钢 60Si2Mn
活塞 Piston	不锈钢 Stainless steel
缸套 Cylinder Sleeve	不锈钢 Stainless steel



安装示意图:

技术参数

Technical Parameters

公称压力 (Nominal Pressure): 1.6-6.4MPa

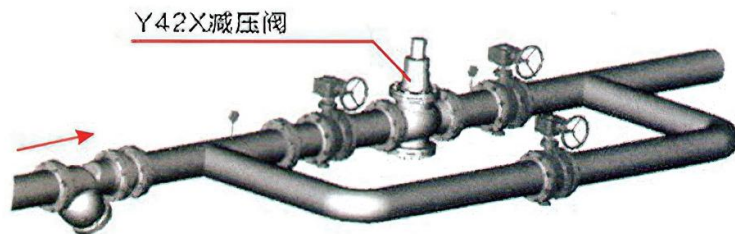
公称口径 (Nominal Diameter): 20-400mm

适用介质 (Applicable Media): 空气或非腐蚀性液体
(Applicable Medium: Air or non-corrosive liquids)

适用温度 (Applicable Temperature): 0-90°C

法兰标准 (Flange Standard): GB/T17241.6 GB/T9113

试验标准 (Test Standard): GB/T13927 API598



主要连接外型尺寸:

Main Connection Dimensions:

DN	L			H1				H2			
	PN16、25	PN40	PN64	PN16	PN40	PN40	PN64	PN16	PN25	PN40	PN64
20	180	160	170	90	90	90	90	220	220	220	220
25	180	200	200	95	95	100	105	255	255	265	265
32	200	220	220	100	100	100	110	255	255	265	265
40	220	240	240	115	115	130	130	325	325	330	330
50	250	270	270	120	120	135	135	325	325	330	330
65	280	280	300	125	125	130	145	330	330	340	355
80	310	330	330	135	135	150	160	340	340	340	360
100	350	280	380	108	108	185	185	317	317	360	360
125	400	450	450	190	200	200	245	560	560	565	565
150	450	500	500	205	210	240	280	580	580	585	585
200	500	560	560	220	245	245	310	630	630	635	635
250	600			270				750			
300	800			310				780			
350	850			390				850			
400	900			420				925			

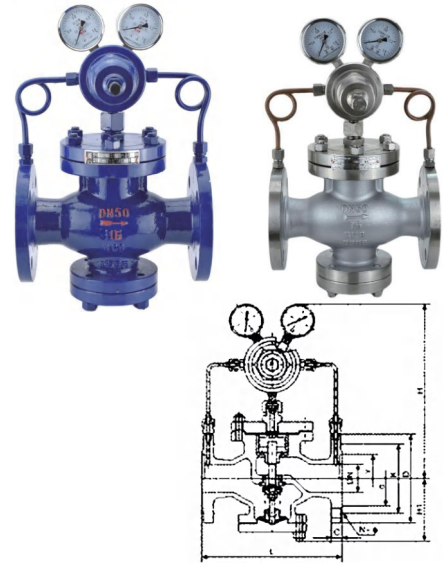
YK43X/F型先导活塞式气体减压阀
YK43X/F Pilot Piston Type Gas Pressure Reducing Valve

本系列减压阀属于先导活塞式减压阀。由主阀和导阀两部分组成。主阀主要由阀座、主阀盘、活塞、缸套、弹簧等零件组成。导阀主要由阀座、阀瓣、膜片、弹簧、调节弹簧等零件组成。通过调节调节弹簧压力设定出口压力，利用膜片传感出口压力变化，通过导阀启闭驱动活塞调节主阀节流部分过流面积的大小，实现减压稳压功能。

本产品主要用于气体管路，如空气、氮气、氧气、氢气、液化气、天然气等气体。

This series of pressure reducing valves are pilot piston type pressure reducing valves, which are composed of two parts: main valve and pilot valve. The main valve is mainly composed of valve seat, main valve disc, piston, cylinder liners and spring. And the pilot valve is composed of valve seat, valve disc, diaphragm, spring and adjusting spring. To realize the function of pressure reduction and stabilization, the outlet pressure is set by adjusting the adjusting spring pressure, and the diaphragm senses the outlet pressure change, and also the size of the overflow area of the throttling part of the main valve is adjusted by driving the piston through the opening and closing of the pilot valve.

This product is mainly used for gas pipeline, such as air, nitrogen, oxygen, hydrogen, liquefied gas, natural gas and other gases.



主要零部件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	WCB/FCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13/304
缸套、活塞 Cylinder Sleeve, Piston	25 (镀铬)/304*, 2Cr13/铜合金* 25 (hard chrome plating)/304*, 2Cr13/Copper alloy
膜片 Diaphragm	1Cr18Ni9Ti
活塞环 Piston Ring	合金铸铁/对位聚苯 Alloy cast iron/Para-polypheyl
导阀座、导阀杆 Pilot Valve Seat/Rod	2Cr13/304*
主阀弹簧 Main Valve Spring	50CrVA
导阀主弹簧 Pilot Valve Main Spring	50CrVA
调节弹簧 Adjusting Spring	60Si2Mn
密封垫 (X/F型) Gasket (X/F model)	橡胶/聚四氟乙烯 EPDM/PTFE
导阀体、导阀盖 Pilot Valve Body, Pilot Valve Cover	25/304

主要技术参数和性能指标
Main Technical Parameters And Performance Indicators

公称压力(MPa) Nominal Pressure (MPa)	1.6	2.5	4.0	5.4	10.0	16.0
壳体试验压力(MPa) Shell Test Pressure (MPa)	2.4	3.75	6.0	9.6	15.0	24.0
密封试验压力(MPa) Seal Test Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
最高进口压力(MPa) Maximum Inlet Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
出口压力范围(MPa) Outlet Pressure Range (MPa)	0.1~1.0	0.1~1.6	0.1~2.5	0.2~3.5	0.5~3.5	0.5~4.5
压力特性偏差(MPa)△P2P Pressure Characteristic Deviation (MPa)△P2P	GB12246—1989					
流量特性偏差(MPa)P2G Flow Characteristics Deviation (MPa)P2G	GB12246—1989					
最小压差(MPa) Minimum Differential Pressure(MPa)	0.15	0.15	0.2	0.4	0.8	1.0
泄漏量 Leakage Amount	X/F (聚四氟乙烯/橡胶): OY (硬密封): GB12245-1989 X/F:OY:GB12245-1989					

流量系数 (Flow Coefficient (Cv))

DN	15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	500
CV	1	2.5	4	6.5	9	16	25	36	64	100	140	250	400	570	780	1020	1500

*用于氧气介质时的材料
*Materials when using with oxygen media

外形尺寸 (PN6.4-4.0)
Dimensions (mm)

单位: mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
	1.6/2.5MPA	4.0MPA		
15	160	180	290	90
20	160	180	300	98
25	180	200	300	110
32	200	220	300	110
40	220	240	320	125
50	250	270	320	125
65	280	280	325	130
80	310	330	365	160
100	350	380	365	170
125	400	450	475	200
150	450	500	475	210
200	500	560	515	240
250	600		560	290
300	800		705	335
350	850		745	375
400	900		780	407
450	900		730	455
500	950		835	465

外形尺寸 (PN1.6-4.0)
Dimensions (mm)

单位: mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
	6.4MPA	10.0/16.0MPA		
15	180	180	300	100
20	180	200	310	105
25	200	220	310	120
32	220	230	310	120
40	240	240	335	135
50	270	270	335	135
65	300	300	340	140
80	330	330	380	170
100		380	380	185
125		450	490	215
150		500	490	225
200		560	535	260
250		600	580	310
300		800	725	355
350		850	765	395
400		900	800	435
500	950		855	495

YG43H/Y型高灵敏度蒸汽减压阀

YG43H/Y Type High-sensitivity Steam Pressure Reducing Valve

减压阀属于先导活塞式减压阀。由主阀和导阀两部分组成。主阀主要由阀座、阀瓣、活塞、缸套、弹簧等零件组成。导阀主要由阀座、阀瓣、膜片、弹簧、调节弹簧等零件组成。通过调节弹簧压力设定出口压力，利用膜片传感出口压力变化，通过导阀启闭驱动活塞调节主阀节流部分过流面积的大小，实现减压稳压功能。

本系列产品在普通减压阀基础上作了以下改进，加大了活塞面积，改变了节流结构，改变了密封形式，改进了导阀结构和调节弹簧形式，从而从以下几方面提高了产品的性能。

1. 提高了对出口压力变化的传感效能，提高了灵敏度，大大降低了因上游压力变化，流量变化等因素引起的压力偏差。
2. 改善了流线分布，降低了噪声。
3. 改进了密封面结构，延长了密封面寿命。

本产品主要用于蒸汽管路，适用于进口压力变化大，流量变化大的蒸汽管路。



This series of pressure reducing valves are pilot piston type pressure reducing valves, which are composed of two parts: main valve and pilot valve. The main valve is mainly composed of valve seat, valve disc, piston, cylinder liners and spring. And the pilot valve is composed of valve seat, valve disc, diaphragm, spring and adjusting spring. To realize the function of pressure reduction and stabilization, the outlet pressure is set by adjusting the adjusting spring pressure, and the diaphragm senses the outlet pressure change, and also the size of the overflow area of the throttling part of the main valve is adjusted by driving the piston through the opening and closing of the pilot valve.

This series of products have been improved as below on the basis of common pressure reducing valves by increasing the piston area, changing the throttling structure and the sealing form, improving the pilot valve structure and adjusting spring form, thus the performance of the product is improved as below.

1. Improving the sensing effectiveness of outlet pressure changes and sensitivity, and greatly reducing pressure deviations caused by upstream pressure changes, flow changes, etc.
2. Improving flow distribution and reducing noise.
3. Improving seal face structure and extending seal face life.

This product is mainly applied on steam pipeline, suitable for steam pipeline with large change in inlet pressure and large flow rate.

主要零部件材料

Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	WCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13/304
缸套、活塞 Cylinder Sleeve, Piston	铝铁青铜 Aluminum and iron bronze
膜片 Diaphragm	PH15-7MO
活塞环 Piston Ring	对位聚苯 Para-polyphenyl
导阀座、导阀杆 Pilot Valve Seat/Rod	2Cr13
主阀弹簧 Main Valve Spring	50CrVA
导阀主弹簧 Pilot Valve Main Spring	50CrVA
调节弹簧 Adjusting Spring	60Si2Mn

主要技术参数和性能指标

Main Technical Parameters And Performance Indicators

公称压力(MPa) Nominal Pressure (MPa)	1.0	1.6				
壳体试验压力(MPa) Shell Test Pressure (MPa)	1.5	2.4				
密封试验压力(MPa) Seal Test Pressure (MPa)	1.6	1.6				
最高进口压力(MPa) Maximum Inlet Pressure (MPa)	1.0	1.6				
出口压力范围(MPa) Outlet Pressure Range (MPa)	0.04-0.6	0.04-1.0				
压力特性偏差(MPa)△P2P Pressure Characteristic Deviation (MPa)△P2P	GB12246—1989					
流量特性偏差(MPa)P2G Flow Characteristics Deviation (MPa)P2G	GB12246—1989					
最小压差(MPa) Minimum Differential Pressure (MPa)	0.05	0.07				
渗漏量 Leakage Amount	GB12245-1989					

连接形式: 法兰式: RP FF

Connection Type: Flange: RP FF

执行标准: JB79 GB9113, ANSI B16.5

Implementation Standards: JB79 GB9113 ANSI B16.5

流量系数 (Flow Coefficient (Cv))

DN	15	20	25	32	40	50	65	80
CV	1	2.5	4	6.5	9	16	25	36

YG43H/Y系列连接尺寸

YG43H/Y Series Connection Sizes

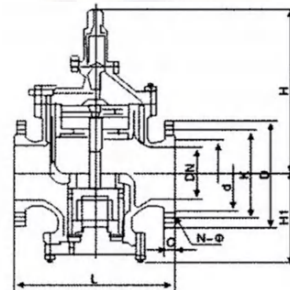
公称通径 (DN) Nominal Diameter (DN)	外形尺寸 Overall Dimensions			连接尺寸 Connection Dimensions									
	L	H	H1	PN1.0MPA					PN1.6MPA				
				D	K	n~φ	d	c	D	K	n~φ	d	c
15	140	160	65	95	66	4-14	45	12	95	65	4-14	45	14
20	140	160	65	105	75	4-14	55	14	105	75	4-14	55	14
25	140	168	68	115	85	4-14	65	14	115	85	4-14	65	14
32	180	185	75	135	100	4-18	78	16	135	100	4-18	78	16
40	180	185	78	145	110	4-18	85	16	145	110	4-18	85	16
50	200	193	88	160	125	4-18	100	16	160	125	4-18	100	16
65	230	208	98	180	145	4-18	120	18	180	145	4-18	120	18
80	260	228	117	195	160	4-18	135	18	195	160	8-18	135	20

YGa43H高灵敏减压阀

YGa43H High Sensitivity Pressure Reducing Valv

高灵敏度大流量蒸汽减压阀属于先导活塞式减压阀。由主阀和导阀两部分组成。主阀主要由阀座、主阀盘、活塞、弹簧等零件组成。导阀主要由阀座、阀瓣、膜片、弹簧、调节弹簧等零件组成。本产品与普通减压阀基础上作了很大改进，加大了活塞面积，改变了节流结构，改变了密封形式，加大了过流面积等等，从而在提高灵敏度、流量、寿命等方面大大改善了性能。本产品主要用于蒸汽管路，适用于流量大、流量变化大、进口压力变化大的蒸汽管路。

High-sensitivity high-flow steam pressure reducing valves are pilot piston type pressure reducing valves, which are composed of two parts: main valve and pilot valve. The main valve is mainly composed of valve seat, main valve disc, piston and spring. And the pilot valve is composed of valve seat, valve disc, diaphragm, spring and adjusting spring. This product has been greatly improved on the basis of common pressure reducing valves by increasing the piston area, changing the throttling structure and the sealing form, increasing the overflow area, etc., thus its sensitivity, flow, life and other performance are improved. This product is mainly applied on steam pipeline, suitable for steam pipeline with large flow rate, large change in flow rate and inlet pressure.



主要零部件材料 Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	WCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13/304
缸套、活塞 Cylinder Sleeve, Piston	铝铁青铜 Aluminum and iron bronze
膜片 Diaphragm	1Cr18Ni9
活塞环 Piston Ring	合金铸铁/对位聚苯 Alloy cast iron/Para-polyphenyl
导阀座、导阀杆 Pilot Valve Seat/Rod	2Cr13
主阀弹簧 Main Valve Spring	50CrVA
导阀主弹簧 Pilot Valve Main Spring	50CrVA
调节弹簧 Adjusting Spring	60Si2Mn

主要技术参数和性能指标 Main Technical Parameters And Performance Indicators

公称压力(MPa) Nominal Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
壳体试验压力(MPa) Shell Test Pressure (MPa)	2.4	3.75	6.0	9.6	15.0	24.0
密封试验压力(MPa) Seal Test Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
最高进口压力(MPa) Maximum Inlet Pressure (MPa)	1.6	2.5	4.0	6.4	10.0	16.0
出口压力范围(MPa) Outlet Pressure Range (MPa)	0.04~1.0	0.05~1.6	0.08~2.5	0.2~3.5	0.5~3.5	0.5~4.5
压力特性偏差(MPa)△P2P Pressure Characteristic Deviation (MPa)△P2P	GB12246—1989					
流量特性偏差(MPa)P2G Flow Characteristics Deviation (MPa)P2G	GB12246—1989					
最小压差(MPa) Minimum Differential Pressure (MPa)	0.15	0.15	0.2	0.4	0.8	1.0
渗漏量 Leakage Amount	GB12245-1989					

外形尺寸(PN6-4.0) Dimensions (mm)

单位:mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
	1.6/2.5MPA	4.0MPA		
15	160	180	265	85
20	160	180	265	85
25	180	200	280	95
32	200	220	290	95
40	220	240	315	105
50	250	270	300	130
65	280	280	315	145
80	310	330	330	170
100	350	380	405	200
125	400	450	450	225
150	450	500	485	265
200	500	560	570	290
250	600		640	325
300	800		740	360
350	850		810	395
400	900		950	430
500	950		1080	500

外形尺寸(PN1.6-4.0) Dimensions (mm)

单位:mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)			
	L		H	H1
	6.4MPA	10.0/16.0MPA		
15	180	180	280	100
20	180	200	280	100
25	200	220	300	115
32	220	230	300	115
40	240	240	315	130
50	270	270	340	135
65	300	300	355	150
80	330	330	370	175
100		380	450	205
125		450	510	235
150		500	555	245
200		560	640	300
250		600	720	335
300		800	830	375
350		850	880	410
400		900	1020	445
500	950		1080	515

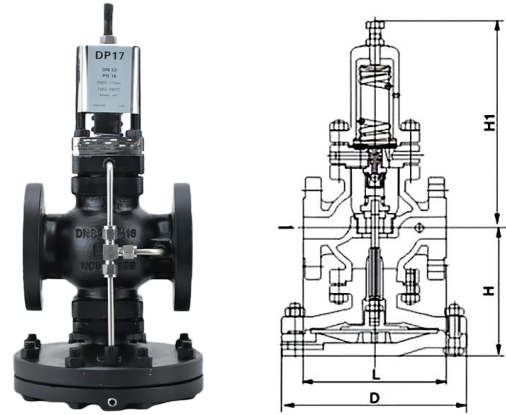
DP17导阀型隔膜式蒸汽减压阀
DP17 Pilot Diaphragm Type Steam Pressure Reducing Valve

本系列减压阀是公司参考国外先进产品而研制开发成功的新型先导式超大膜片减压阀, 本产品在普通减压阀的基础上做了很大的改进。膜片采用了新型材料, 并大大加工了工作面积, 因此阀门上游压力或下游负荷细微的变化都能及时准确的反馈到主阀膜片, 来调节主阀的开度, 确保下游压力的稳定。

本产品的另一个突出的特点为: 同一个阀体上可安装和互换多个导阀, 在稳压的同时, 实现温度制造、上游压力的控制、远程的开关控制等。

This series of pressure reducing valve is a new type of pilot-operated oversized diaphragm pressure reducing valve successfully developed by the company with reference to advanced foreign products. This product has been greatly improved on the basis of common pressure reducing valves. The diaphragm is made of new material and the working area is greatly processed. So the slight change of upstream pressure or downstream load can be accurately fed back to the main valve diaphragm in time to adjust the opening of the main valve and ensure the stability of downstream pressure.

Another outstanding feature of this product is that multiple pilot valves can be installed and interchanged on the same valve body, enabling temperature manufacturing, upstream pressure control, remote on/off control, etc. while stabilizing pressure.



主要零部件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖 Body, Bonnet	WCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13/304
膜片 Diaphragm	1Cr18Ni9
调节弹簧 Adjusting Spring	60Si2Mn

主要技术参数和性能指标
Main Technical Parameters And Performance Indicators

公称压力(MPa) Nominal Pressure (MPa)	2.5				
壳体试验压力(MPa) Shell Test Pressure (MPa)	3.75				
密封试验压力(MPa) Seal Test Pressure (MPa)	2.5				
最高进口压力(MPa) Maximum Inlet Pressure (MPa)	2.5				
出口压力范围(MPa) Outlet Pressure Range (MPa)	0.02-1.6				
压力特性偏差(MPa)△P2P Pressure Characteristic Deviation (MPa)△P2P					GB12246—1989
流量特性偏差(MPa)P2G Flow Characteristics Deviation (MPa)P2G					GB12246—1989
渗漏量 Leakage Amount					GB12245-1989

流量系数 (Flow Coefficient (Cv))

DN	15	20	7.5	32	40	50				
CV	2.8	5.3	8.6	11.6	16.5	29.1				

公称通径DN Nominal Diameter (DN)	L	H1	H	D
15	147	221	133	185
20	154	224	136	185
25	160	235	145	207
32	180	236	156	207
40	200	235	176	255
50	230	246	183	255
65	250	295	200	320
80	310	323	230	350
100	350	340	263	380
125	400	359	306	455
150	450	375	330	500

DP27导阀型隔膜式蒸汽减压阀
DP27 Pilot Diaphragm Type Steam Pressure Reducing Valve

本系列减压阀是公司参考国外先进产品而研制开发成功的新型先导式超大膜片减压阀, 本产品在普通减压阀的基础上做了很大的改进。膜片采用了新型材料, 并大大加工了工作面积, 因此阀门上游压力或下游负荷细微的变化都能及时准确的反馈到主阀膜片, 来调节主阀的开度, 确保下游压力的稳定。

本产品的另一个突出的特点为: 同一个阀体上可安装和互换多个导阀, 在稳压的同时, 实现温度制造、上游压力的控制、远程的开关控制等。

This series of pressure reducing valve is a new type of pilot-operated oversized diaphragm pressure reducing valve successfully developed by the company with reference to advanced foreign products. This product has been greatly improved on the basis of common pressure reducing valves. The diaphragm is made of new material and the working area is greatly processed. So the slight change of upstream pressure or downstream load can be accurately fed back to the main valve diaphragm in time to adjust the opening of the main valve and ensure the stability of downstream pressure.

Another outstanding feature of this product is that multiple pilot valves can be installed and interchanged on the same valve body, enabling temperature manufacturing, upstream pressure control, remote on/off control, etc. while stabilizing pressure.



主要零部件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、阀盖、底盖 Body, Bonnet, Seat Cover	球墨铸铁(Ductile Cast Iron)/ WCB
阀座、阀瓣 Valve Seat, Valve Disc	2Cr13/304
膜片 Diaphragm	316
导阀座、导阀杆 Pilot Valve Seat/Rod	2Cr13
调节弹簧 Adjusting Spring	60Si2Mn
主阀弹簧 Main Valve Spring	50CrVA

主要技术参数和性能指标
Main Technical Parameters And Performance Indicators

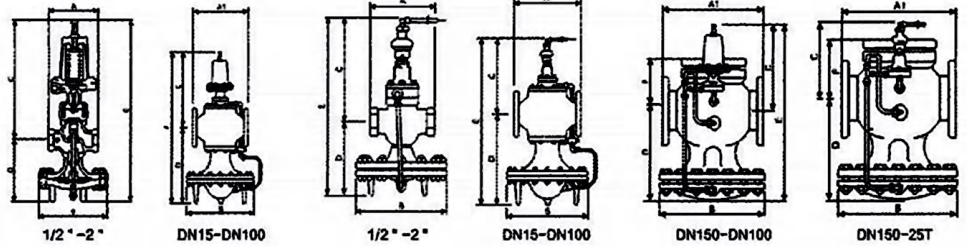
公称压力(MPa) Nominal Pressure (MPa)	2.5
PMA最高允许压力 PMA Maximum Allowable Pressure	A-D-E 25bar g @120°C
	A-B-C 17.2bar g @120°C
TMA最高允许温度 TMA Maximum Allowable Temperature	232°C @21bar g
TMI最低允许温度 TMI Minimum Allowable Temperature	-10°C
PMO最大工作压力 PMO Maximum Operating Pressure	DP27 DP27G 17bar g
	DP27E 10bar g
TMO最大工作温度 TMO Maximum Operating Temperature	DP27 232°C @21bar g
	DP27E 190°C @10bar g
	DP27G 120°C @25bar g
TMIO最低工作温度 TMIO Minimum Operating Temperature	0°C
出口压力范围 Outlet Pressure Range	0.2-1.7bar g
最高冷态测试压力 Maximum Cold Test Pressure	38bar g

流量系数 (Flow Coefficient (Cv))

DN	15	20	25	32	40	50	65	80	100	125	150
CV	2.8	5.5	8.1	12.0	17.0	28.0	45.5	60.1	93.3	146	186

公称通径DN Nominal Diameter (DN)	L	H1	H	D
15	147	235	145	207
20	154	235	145	207
25	160	235	145	207
32	180	250	160	220
40	200	250	160	220
50	230	270	183	220

25P蒸汽减压阀
25P Steam Pressure Reducing Valve



25P DN15-DN100

口径 (DN)	BSP A	PN16 A1	PN40 A1	B	C	D	重量 (kg)
15	140	160	147	193	15	15	15
20	140	160	154	193	20	20	20
25	152	166	160	219	25	25	25
32	184	205	180	219	32	32	32
40	184	216	196	219	40	40	40
50	216	240	230	269	50	50	50
65	-	284	292	346	65	65	65
80	-	308	317	346	80	80	80
100	-	353	368	397	100	100	100

25T DN15-DN100

口径 (DN)	BSP A	PN16 A1	PN40 A1	B	C	D	重量 (kg)
15	140	150	150	193	249	157	12.2
20	140	154	154	193	248	157	12.2
25	152	160	160	219	248	171	15.4
32	184	180	180	219	262	179	17.9
40	184	200	200	219	262	179	17.9
50	216	230	230	269	278	208	29
65	-	283	292	346	297	354	69.2
80	-	301	317	346	294	367	83.2
100	-	360	368	397	325	410	127

25P DN150

口径DN	PN16 A1	PN40 A1	B	C	D	F	重量(kg)
150	460	460	502	297	435	228	270

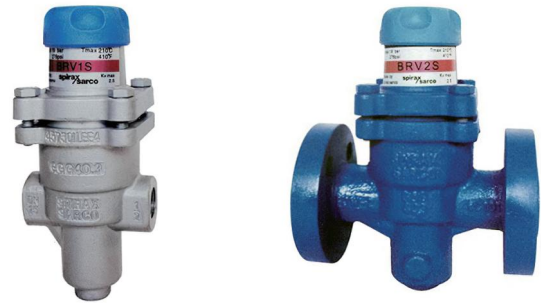
25T DN150

口径DN	PN16 A1	PN40 A1	B	C	D	F	重量(kg)
150	460	460	502	232	435	228	254

BRV1S/BRV2S直接作用式减压阀
BRV1S/BRV2S Direct Acting Pressure Reducing Valve

用于准确、敏捷的压力控制的直接作用式减压阀为铸钢材质阀体。适用于蒸汽和压缩空气系统。可轻易的安装在接近制程的使用点上,使蒸汽输送压力更高,管径更小,能利用的潜热也相对增加许多,使低压使用时效率更高。在负荷稳定时提供准确的压力控制。BRV71G为软密封型号,用于压缩空气系统,或其它工业气体(不适用于氧气)。

The direct acting pressure reducing valve for accurate and agile pressure control are made of cast steel. It is suitable for steam and compressed air systems. It can be easily installed close to the point of use in the process, allowing for higher steam transfer pressures, smaller pipe diameters, and much more latent heat to be utilized, making it more efficient for low pressure use. It provides accurate pressure control when the load is stable. BRV71G is a soft seal type for compressed air systems, or other industrial gases (not suitable for oxygen).



使用优点:

- 1、结构结实紧凑,安装方便,坚固耐用。
- 2、精确控制制程压力,发送制程效率,提高产品质量。
- 3、平衡波纹管可安全平衡主阀芯上的压差。
- 4、备有下游压力感应孔使阀芯动作更稳定并能自我清洁。
- 5、调节手柄有防擅改保护针。
- 6、高品质全内部不锈钢构造。

Advantages of Use:

1. Sturdy and compact structure, easy to install, sturdy and durable.
2. Precise control of process pressure, sending process efficiency and improving product quality.
3. Balanced bellows safely balances the pressure differential across the main spool.
4. Downstream pressure sensing orifice makes the spool action more stable and can self-clean.
5. The adjustment handle has an anti-tampering protection pin.
6. High quality and all internal stainless steel construction.

主要技术参数和性能指标

Main Technical Parameters and Performance Indicators

阀体材质 Valve body material		铸钢 GB/T12229WCB
限制 条件 Restrictions	阀体设计条件 Valve body design conditions	PN25
	最大工作压力(饱和蒸汽) Maximum Operating Pressure (saturated steam)	19.0bar g
	最大设定压力 Maximum Set Pressure	9.0bar g
	最大减比差 Maximum decompression ratio	10;1
最大工作温度 Maximum Operating Temperature		120°C

主要零件材料

Materials of Main Components

口径与连接 Diameter and Connection	螺纹连接 Thread connection	BSP NPT
	法兰连接 Flange connection	
		BS16/25 GB16/25 DN16/25
		JIS10/16 ANSI150
压力控制 范围 Pressure Control Range	灰色弹簧 Gray spring	0.14-1.7bar g
	绿色弹簧 Green spring	1.4-4.0bar g
	橙色弹簧 Orange spring	3.5-9.0bar g

14H/F直接作用式波纹管减压阀
14H/F Direct Acting Bellows Pressure Reducing Valve

Y14H/F型波纹管式减压阀是应时代节能的要求而设计的,具有多功能、超轻型的特点,广泛用于工厂、宾馆等水、蒸汽、空气、氧气、液化气等管路上。

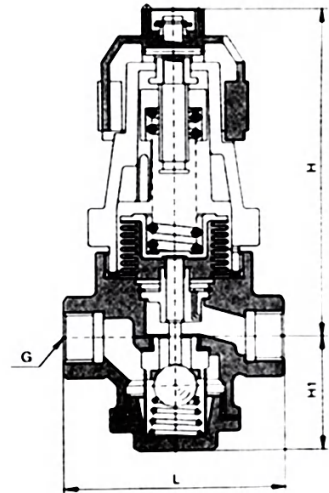
14H/F Direct Acting Bellows Pressure Reducing Valve is designed in response to the requirement of energy saving of the times, with multi-functional and ultra-light characteristics, which is widely used in water, steam, air, oxygen, liquefied gas and other pipelines in factories and hotels.

结构特点和用途:

减压阀属于直接作用式波纹管减压阀,主要由阀座、阀瓣钢球、波纹管组合件、弹簧等零件组成,通过调节弹簧设定出口压力,当出口压力减少时阀瓣开度增大,当出口压力达到预定压力时阀瓣开度减小,主要是通过介质的阀后压力作用在波纹管的面积上传感给调节弹簧实现减压、稳压功能。使用时通过旋转塑料手轮即可调节压力,无需工具调节,连接安装方便,内部结构使用波纹管,密封面带有过滤网保护装置,不容易损坏内部零件,大大提高使用寿命。

Structural Features and Uses:

The pressure reducing valve belongs to direct acting bellows pressure reducing valve, mainly consists of valve seat, valve steel ball, bellows assembly, spring and other parts. The outlet pressure is set by adjusting the spring. When the outlet pressure decreases, the valve disc opening increases, and when the outlet pressure reaches the predetermined pressure, the valve disc opening decreases. The valve pressure of the medium acts on the area of the bellows, and transduce to adjusting spring, to achieve pressure reduction and pressure stabilization function. The pressure can be adjusted by rotating the plastic handwheel, no tools are needed to adjust, and it is easy to connect and install. Its internal structure uses bellows, and the sealing surface has a filter protection device, which is not easy to damage the internal parts, and greatly improve the service life.



主要技术参数和性能指标

Main Technical Parameters and Performance Indicators

公称压力 (MPa) Nominal Pressure (MPa)	1.6
壳体试验压力 (MPa) Shell Test Pressure (MPa)	2.4
密封试验压力 (MPa) Seal Test Pressure (MPa)	1.76
最高进口压力 (MPa) Seal Test Pressure (MPa)	1.6
出口压力范围 (MPa) Outlet Pressure Range (MPa)	0.05-1.0
压力特性偏差 (MPa) $\Delta P2P$ Pressure Characteristic Deviation (MPa) $\Delta P2P$	GB12244-1989
流量特性偏差 (MPa) P2G Flow Characteristics Deviation (MPa) P2G	GB12244-1989
最小压差 (MPa) Minimum Differential Pressure (MPa)	0.15
渗漏量 Leakage Amount	GB12244-1989
适用介质 Applicable Media	水、蒸汽、空气、液体 water, steam, air, liquid
工作温度 Operating Temperature	$\leq 220^{\circ}\text{C}$

主要零件材料

Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、底盖 Body, Seat Cover	CF8
阀盖 Bonnet	铸造铝合金 (Cast aluminum alloy/CF8)
阀杆 Valve Stem	2Cr13
阀座 Valve Seat	2Cr13
钢球 Steel Ball	2Cr13
波纹管 Bellows	1Cr18Ni9Ti
手轮 Handwheel	耐热塑料 Heat Resistant Plastic
主阀弹簧 Main Valve Spring	50CrVA
调节弹簧 Adjusting Spring	60Si2Mn

连接尺寸:

Connection Dimensions

口径尺寸 Size	L	H	H1	G
DN15	85	140	52	1/2"
DN20	95	143	55	3/4"
DN25	105	146	58	1"

YT11H蒸汽减压阀
YT11H steam reducing valve

加大薄膜型高灵敏度减压阀是参考国外同类产品研制开发的,属于直接作用式薄膜弹簧减压阀,其突出特点是大大加大了膜片工作面积,因此,和同类减压阀相比,膜片对下游压力变化的传感特别明显,下游压力的微小变化(例如0.01MPa)都将引起膜片和阀芯明显的调节动作,从而大大提高了稳压功能。本系列的产品特别适用于进口压力变化大,出口流量变化大,需要出口压力较好稳定的管路。



The increased film type high sensitivity reducing valve was developed with reference to similar foreign products. Belongs to direct acting reducing valves with membrane spring. The outstanding feature is the greatly increased diaphragm working area, therefore, compared to the same reducing valves, the diaphragm senses downstream pressure changes particularly well. a minor changes(e.g. 0.01MPa) in downstream pressure will cause a significant regulating action of the diaphragm and spool. Thus significantly improved the voltage regulation. The products in this range are particularly suitable for high variation in inlet pressure, high variation in outlet flow and pipeline of stable outlet pressure.

主要技术参数

Main technical parameters

公称压力 (MPa) Nominal pressure (MPa)	1.6
壳体试验压力 (MPa)* Housing test pressure (MPa)*	2.4
密封试验压力 (MPa) Sealing test pressure (MPa)	1.6
最高进口压力 (MPa) Maximum inlet pressure (MPa)	1.6
出口压力范围 (MPa) Outlet pressure range (MPa)	0.03-1.0
压力特性偏差 (MPa)△P2P Pressure characteristic deviation (MPa) △P2P	GB12246-1989
流量特性偏差 (MPa)P2G Flow characteristic deviation (MPa) P2G	GB12246-1989
渗漏量 Penetration amount	GB12245-1989

主要零件材料

Main parts materials:

零件名称 Name of Components	零件材料 Materials
阀体、阀盖 Body, Bonne	WCB
阀座 Valve Seat	2Cr13
阀瓣 Valve Disc	2Cr13
阀杆 Seat/Rod	2Cr13
膜片 Diaphragm	1Cr18N19Ti
调节弹簧 Adjusting Spring	60Si2Mn

流量系数 (Cv)

Flow coefficient

DN	15(1/2")	20(3/4")	25(1")	32(1-1/4")	40(1-1/2")	50(2")
Cv	1.2	2.2	4	7	12	19

连接尺寸:

Connection dimensions

DN	G	L	H1	H	D
15(1/2)	RC1/2	95	55	170	100
20(3/4)	RC3-4	95	55	170	100
25(1)	RC1	100	60	190	120
32(1-1/4)	RC1-1/4	165	75	220	150
40(1-1/2)	RC1-1/2	190	90	250	180
50(20)	RC2	200	110	300	220

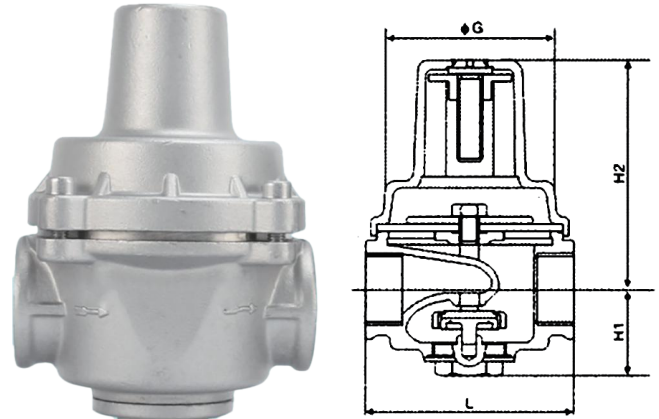
YZ11X支管减压阀
YZ11x branch pipe reducing valve

YZ11X支管减压阀采用直接作用隔膜式结构,主要用于各种建筑给水系统、消防系统,中央空调系统、采暖系统等。它用于支管减压,可使供水压力分配更加均衡,避免部分供水超压,优化高层建筑给水分区。它可代替分区调频变速水泵,在消防给水系统中可代替分区水泵,用于家用给水系统,可保护所有的水龙头和其它水器具,内部结构非常简单无卡阻,性能可靠,经久耐用。

YZ11x pipe reducing valve using direct acting diaphragm construction, mainly used in various building water supply systems, fire-fighting systems, central air-conditioning systems, heating systems, etc. It is used to decompression of branch pipes, allowing for a more balanced distribution of water supply pressure and avoiding partial over pressure of the water supply, optimising water supply zoning in high-rise buildings.

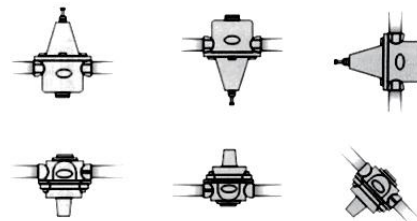
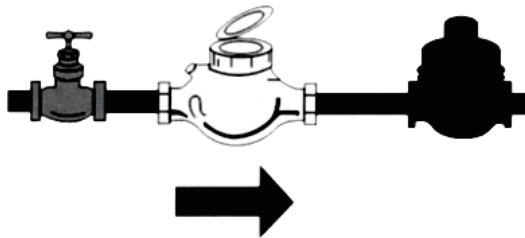
安装:

在家用给水系统,减压阀通常安装在水表后面,以便保护其所有用水器具,如果有冰冻危险,则应注意采暖或放水排空。减压阀可以在360°方向任意安装,但铸刻在阀体上的箭头必须与实际水流方向一致。



Installation:

In domestic water supply systems, reducing valve are usually installed behind the water meter, To protect all water appliances, if has Frozen hazards, must be attention to the Heating or draining and emptying. Reducing valve can be installed in 360°C, but the arrows cast into the valve body must be in the same direction as the actual water flow.



主要技术参数

Main Technical Parameters

类型 Type	型号 Model	公称压力 Nominal pressure	公称通径 Nominal pressure	连接形式 Connection type	阀体材料 Valve material	出口压力 (MPa) Outlet pressure	工作温度 Operating temperature°C
支管减压阀 branch pipe reducing valve	YZ11-1T,YZ11X-25T	1.6、2.5	15-50	内螺纹 Female thread	青钢 Porcelain steel	0.05-0.6	0-80°C
	YZ11-1P,YZ11X-25P				不锈钢 Stainless steel		

连接尺寸:

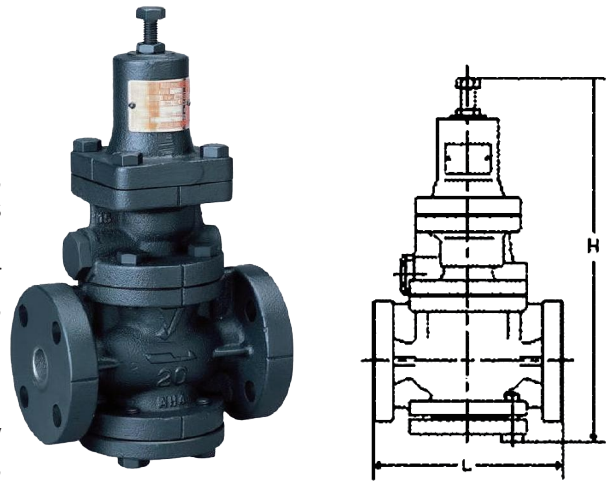
Connection dimensions

DN	mm	15	20	25	32	40	50
	in	1/2	3/4	1	1 1/4	1 1/2	2
H1		31	31	36	42	45	54
H2		60	75	88	93	98	130
L		76.5	76.5	85	98	102	117
φG		59	73	81	81	85	98
重量 (kg)		1.2	1.2	1.4	1.5	2	2.65

GP-1000减压阀
GP-1000 Reducing valve

GP-1000系列蒸气减压阀系活塞式引导作动形减压阀，可安心用于从小流量到大流量使用频率高的地方，可广泛用于建筑设备、空调设备以及其它工业设备。与以前的减压阀相比，作动性，耐久性大幅度提高(与本公司产品相比，为2倍)；因主阀为球面形，密封性高，泄漏量极少(符合ANS14级)；依据的是HASS106减压阀(日本空气调和.卫生工学会)的规格；垫圈使用非石棉材料；内部结构简单，牢固。

GP-1000 Series Steam Reducing Valves are piston-guided, actuated reducing valves. Can be used with confidence in areas with high usage rates from small to large flows, widely used in construction equipment, air conditioning equipment and other industrial equipment, compared to previous reducing valves, Action and durability (Compared to our products) have been significantly improved by 2 times; Main valve is spherical in shape for high sealing and very low leakage(Complies with ANS14 class). Based on the HASS106 reducing valve(The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, SHASE)specifications, gasket made of non-asbestos material; simple and robust internal construction.



规格

Specification:

型号 (Model)	GP-1000	
连接(connection)	JIS 10KF 法兰盘	
适用流体(Suitable media)	蒸汽 (steam)	
一次侧压力(One lateral pressure)	0.1~1.0MPa(1~10kg/cm ² G)	
二次侧压力(Tow lateral pressure)	0.05~0.3MPa(0.5~3kg/cm ² G) 一次侧压力的90%以下 Less than 90% of primary side pressure (gauge pressure)	
最小压差(Minimum differential) pressure	0.05MPa(0.5kg/cm ² G)	
最大减压差 (Maximum reducing differential)	20:1	
最高温度(Maximum temperature)	220°C	
阀座泄漏量(Valve seat Spill volume)	额定流量的0.01%以下 Less than 0.01% of rated flow下	
材料 material	本体(Original Body)	球墨铸铁(Ductile iron)
	阀体阀座(Valve body/seat)	不锈钢(Stainless steel)
	活塞气缸(Piston cylinder)	黄铜、青铜(Brass / bronze)

尺寸及重量：

Dimensions and weight:

公称直径 Nominal diameter	L	H	H1	Cv值	重量 (kg)
15A	160	285	64	1.0	8.0
20A	160	285	64	2.3	8.5
25A	180	300	67	4.0	10.0
32A	200	323	82	6.5	14.0
40A	220	323	82	9.0	14.5
50A	250	347	93	16.0	20.0
65A	280	357	100	25.0	30.0
80A	310	404	122	36.0	35.0
100A	350	450	144	64.0	52.5

GP-1000系列型号：
GP-1000 series models:

GP-1000 □

材料以及流体 T:空气用 S:关键部件为不锈钢 SS:流体接触面为不锈钢 AS:全不锈钢
Materials and fluids T: for air ,S:Stainless steel for key components ,SS: Stainless steel for fluid contact surfaces, AS:All stainless steel

0:标准产品 1:调节部装有手柄的产品 2:二次侧压力为0.03~0.15MPa的产品
0:Standard product ,1:Products with a handle on the adjustment section, 2:Products with secondary side pressure of 0.03~0.5Mpa

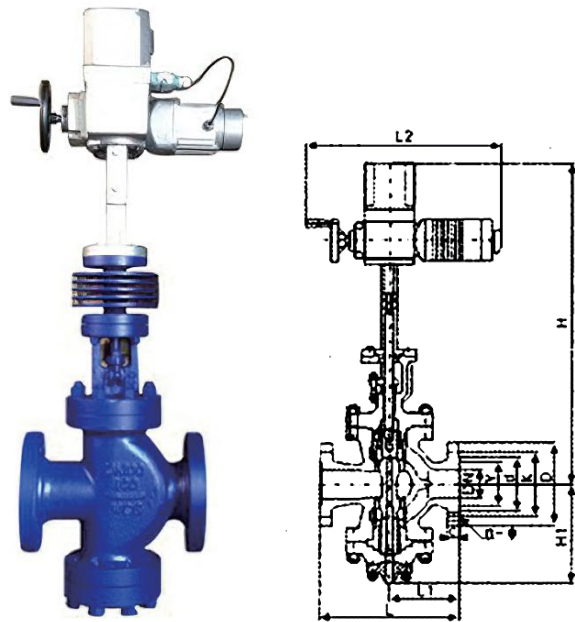
0:JIS 10KFF法兰盘 1:JIS Rc (PT螺丝)
0:JIS 10KFF flange , 1:JIS Rc (PT screw)

0:标准产品 2:远程式产品
0:Standard product , 2:Remote type products

WY945H/Y 型电动双阀座减温减压阀
WY945H/Y Electric double valve seat reducing valve

本系列减压阀主要由阀体阀座、阀瓣、阀罩等零件组成。采用双阀座和圆锥形柱塞结构，增大了过流面积和可调比。阀内设有节流孔罩，增大了减太幅度，同时避免减温水直接喷射到阀体上，保护了阀体。本系列产品主要用于火力发电，配套在第三代减温减压装置上，调节压力和温度时使用调节温度时要与给水调节阀配套使用。

This series of reducing valve has valve body, valve seat, Disc, bonnet, Using double-seated and conical plunger construction for increased cross-flow area and adjustable ratio. The valve is equipped with a throttling orifice cover, which increases the range of temperature reduction. At the same time avoiding the direct injection of temperature reducing water onto the valve body, Protects the valve body. This series of products is mainly used in thermal power generation, matching on the third generation of temperature and pressure reduction devices, When regulating pressure and temperature use the regulating temperature to be used in conjunction with the feed water regulating valve.



公称压力 (MPa) Nominal Pressure (MPa)	6.4	10
壳体试验压力 (MPa) Shell Test Pressure (MPa)	9.6	15
密封试验压力 (MPa) Seal Test Pressure (MPa)	7.04	11
最高进口压力 (MPa) Seal Test Pressure (MPa)	6.4	10
出口压力范围 (MPa) Outlet Pressure Range (MPa)	最佳减比压0.6	
泄漏量 Leakage Amount	0.5%Qmax	
工作温度 Operating Temperature	ANSI B16.34	

主要零件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials
阀体、底盖、底盖 Body, Seat Cover, bottom cover	WCB
阀座 Valve seat	304
阀罩 Bonnet	304
阀瓣 Disc	304
阀杆 Stem	38CrMOA6A
垫片 Gaskets	柔性石墨/ICr18Ni9
填料 Packing	柔性石墨 Heat Resistant Plastic
螺栓 Bolt	35CrMOA
螺母 Nuts	45

外形尺寸(PN6.4-10.0)单位:mm
Dimensions(PN6.4-10.0)Unit: mm

公称通径 (DN)	外形尺寸 (Dimensions)					减温水接管通径 Temperature reducing water connection pipe diameter
	L	L1	H	H1		
50	300	150	880	260	10	
65	340	170	890	285	10	
80	380	190	910	305	20	
100	400	215	950	330	20	
125	430	225	990	380	32	
150	450	230	1090	410	32	
200	500	260	1160	435	32	
250	550	285	1230	470	32	
300	750	395	1370	580	32	
350	850	445	1450	660	40	
400	950	550	1570	800	50	

订货须知
Ordering Instructions

产品型号 出口压力范围 Model number, Outlet pressure range
公称压力 公称通径 流通面积 Nominal pressure, Nominal duct diameter, Flow area
连接法兰标准 Connection flange standards,
进出口蒸汽温度 Inlet and outlet steam temperatures
进口压力 配电动执行器型号 Inlet pressure, With electric actuator model

执行标准: JB79 GB9113
连接方式: 法兰式: FMRJ

疏通能力参数*
Dredging capacity parameters*

公称通径 (mm) Nominal diameter (mm)	50	65	80	100	125	150	200	250	300	350	400
最大流通面积 (cm ²) Maximum flow encounter area (cm ²)	5	9.5	12	24	38	44	71.5	108	190	270	317.1
网罩流通面积 (cm ²) Net cover circulation area (cm ²)	60.3	78	98.5	133.7	191	211.6	253.3	152.4	615.7	875	1160.4

电动执行器选配及性能指标
Electric actuator options and performance indicators

公称通径 (mm) Nominal diameter (mm)	50	65	80	100	125	150	200	250	300	350	400	
配执行机构型号 Actuator type	ZKZ-310BC		ZKZ-310BC/ZKZ-510BC				ZKZ-510BC		ZKZ-610BC			
行程 Stroke (mm)	25		30				50/30		50			60
推力 Thrust (N)	4000		6400/1600				16000		25000			
全行程时间 Full stroke time (s)	20		32				37		62			
信号输入 Input signal	4-20mA DC											
供电电源 Power supply	220V 50HZ											
基本误差 (%) Basic error (%)	≤ ±2.5											
基本误差 (%) Basic error (%)	≤ ±1.5											
基本误差 (%) Basic error (%)	≤ ±3											

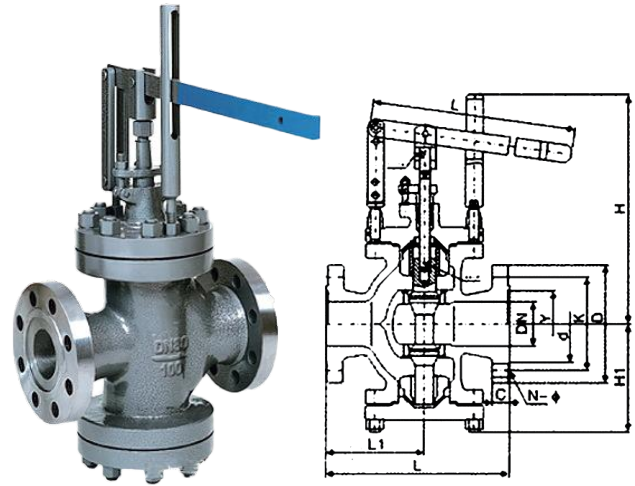
Y45H/Y型杠杆式减压阀
Y45H/Y Lever reducing valve

本系列减压阀主要由阀体、阀座、阀瓣等零件组成。采用双阀座、双锥体阀瓣的结构。采用压力平衡式阀瓣、升降调节。其调节机构采用杠杆式，可配用DKJ型或其它型角行程电动执行器，实现遥控和自动控制。

本系列产品的减压比用到0.6较为合适。本产品主要用于蒸汽管路，调节压力。广泛应用在热电联产、轻纺、印染、石化、制糖等行业。

This series of reducing valve has valve body, valve seat, Disc. Using with double valve seat, double cone disc. With Pressure-balanced valve flap, lifting and adjusting. The regulating mechanism is of the carrying lever type. It can be equipped with DKJ type or other type of angle-stroke electric actuator, can remote control and automatic control. A reducing differential of this series products will be suitable in 0.6.

This product is mainly used for steam piping and regulating pressure. It is widely used in cogeneration, combined heat and power, light textile, printing and dyeing, petrochemical, sugar and other industries. Connection type: flange RF FM RJ, Implementation of standards: JB79 GB9113



执行标准: JB79 GB9113
连接方式: 法兰式: RF FM RJ

主要零件材料
Materials of Main Components

零件名称 Name of Components	零件材料 Materials	零件名称 Name of Components	零件材料 Materials
阀体、底盖、底盖 Body, Seat Cover, bottom cover	WCB	导向套 Packing	2Cr13
阀座 Valve seat	304	填料 Packing	柔性石墨 Flexible graphite
阀瓣 Disc	2Cr13	螺栓 Bolt	35CrMOA
阀杆 Stem	2Cr13	螺母 Nuts	45
垫片 Gaskets	柔性石墨(Flexible graphite)/1Cr18Ni9		

! 订货须知
Ordering Instructions

产品型号 额定流量系数
model number, Rated flow coefficient

公称压力 进口压力
Nominal pressure, Inlet pressure

公称通径 调压范围
Nominal diameter, reducing range

连接法兰标准
Connection flange standards

工作介质和介质温度
Working medium and medium temperature

外形尺寸 (PN6-4.0)
Dimensions (mm)

单位: mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)				
	L	L1	H	H1	I
50	300	150	520	190	565
65	340	170	540	205	650
80	380	190	555	215	650
100	400	215	580	240	800
125	430	225	620	275	800
150	450	230	650	320	800
200	500	260	790	340	800
250	550	285	850	370	800
300	750	395	940	460	900
350	850	445	990	530	900
400	950	550	1120	660	1000
500	1130	680	1660	800	1000

外形尺寸 (PN6-4.0)
Dimensions (mm)

单位: mm

公称通径DN Nominal Diameter (DN)	外形尺寸 (Dimensions)				
	L	L1	H	H1	I
50	300	150	520	200	565
65	340	170	540	215	650
80	380	190	555	225	650
100	400	215	580	250	800
125	430	225	620	285	800
150	450	230	650	320	800
200	500	260	790	355	800
250	550	285	850	390	800
300	750	395	940	480	900
350	850	445	990	550	900
400	950	550	1120	700	1000
500	1130	680	1660	820	1000

ZSX41X梭式泄压阀
ZSX41X shuttle type relief valve

结构特点

- 1、准确且保持不变的安全稳定压力，一旦超压，泄压阀能充分打开及时泄压。
- 2、关闭速度可调，消除压力波动。
- 3、隔膜传动机构将操作滞后现象减小到最小。
- 4、它可安装在任何位置，不用改变压力设定值或从管路上拆除就可进行维修和检查。

Structural features

- 1、Accurate and constant safe and stable pressure, once over pressure, the relief valve can fully open to release pressure in time.
- 2、Adjustable closing speed to eliminate pressure fluctuations.
- 3、Diaphragm drive mechanism can minimised operating hysteresis.
4. It can be installed in any position and can be serviced and inspected without changing the pressure setting or removing it from the pipeline.



主要零件材料

Main part material

零件名称 Part name	材质 Material
阀体、阀盖 Valve body/ bonnet	铸铁、铸钢、不锈钢 Cast iron, cast steel, stainless steel
阀座 Valve seat	锡青铜、不锈钢 Tin brozen Stainless steel
阀杆 Stem	碳钢、不锈钢、丁腈橡胶 Cast steel, Stainless steel Nitrile rubber
膜片 Diaphragm	丁腈橡胶 Nitrile rubber
膜片压板 Diaphragm pressure plate	碳钢、不锈钢 Cast steel, stainless steel
弹簧 Spring	碳钢、不锈钢 Cast steel, stainless steel

主要规格

Main specifications

规格 Specification	DN20-600	介质温度 Medium temperature	0-90°C
工作压力 Working pressure differenc	1.0-2.5MPa	材质 Material	铸钢 cast steel
产品名称 Product alias	梭式泄压阀 Shuttle type relief valve	适用范围 Range of application	水、油 water, oil
连接形式 Connection type	法兰 Flange	类型 Type	直通式、角式 Straight through angled
驱动方式 Drive type	水力控制 Hydraulic control	用途 Using way	泄压 DPressure relief
适用介质 Suitable media	水、油 water, oil	压力环境 Pressure environment	常压 Atmospheric pressure

主要连接尺寸 (main connection Dimensions)

公称通径 Nominal diameter DN(mm)	尺寸 (mm)				
	L	A1	A	H1	H
20	150	130	333	463	557
25	160	130	333	463	557
32	180	130	333	463	557
40	200	140	343	516	610
50	203	140	343	516	610
65	216	140	355	520	625
80	241	140	360	537	642
100	270	145	400	596	750
125	300	165	420	653	808
150	330	180	435	709	864
200	400	205	480	805	1135
250	480	225	530	855	1185
300	550	245	575	953	1325

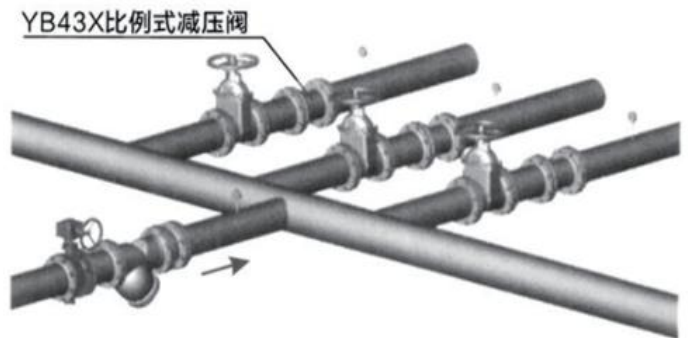
YB43X/YB13X比例式减压阀
YB43X/YB13X Proportional Reducing Valve

本厂生产的比例式减压阀,外形美观,质量可靠,比例准确,工作平稳,既减动压也减静压。该阀利用阀体内部活塞两端不同截面积产生的压力差,改变阀后的压力,达到减压目的。我厂减压阀的减压比例是2:1, 3:1,4:1, 3:2, 5:2等,亦可根据用户的要求设计特殊比例的减压阀。

The proportional reducing valves produced by our factory are aesthetically pleasing ,reliable in quality, accurate in proportion and work smoothly, reducing both dynamic and static pressures.The valve uses the pressure difference generated by the different cross-sectional areas of the two ends of the piston inside the valve body to change the pressure behind the valve and achieve pressure reduction.The pressure reducing ratios of our reducing valves are 2:1, 3:1, 4:1, 3:2, 5:2, etc. Special ratios can also be designed according to customer requirements.



典型安装示意图



技术参数:

Technical parameters:

公称压力 Nominal pressure	1.0-1.MPa
公称通径 Nominal diameter	25-200mm
适用介质 Applicable medium	水、气体 (water, Gas)
适用温度 Applicable temperature	≤180°C
法兰标准 Flange standard	GB/T 17241.6 GB/T9113
试验标准 Test standard	GB/T13927 API158
连接形式 Connection type	法兰、内螺纹 (Flange, Thread)

主要零件材料

Main part material

阀体 Valve body	锡青铜 Tin brozen	不锈钢 stainless steel	铸铁 cast iron	球墨铸铁 Ductile iron
内件 Valve body	锡青铜 Tin brozen	不锈钢 stainless steel	锡青铜、不锈钢 Tin brozen、stainless steel	

主要连接尺寸

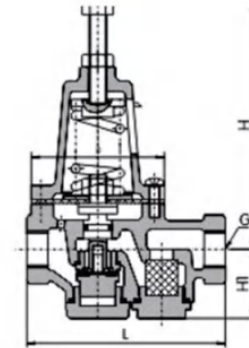
main connection Dimensions

DN	25	32	40	50	65	80	100	125	150	200
L(b型)			78	85	102	122	140	160	178	200

200P黄铜减压阀
200P Brass reducing valve

200P黄铜减压阀属于先导活塞式减压阀,由主阀和导阀两部分组成。200P黄铜减压阀主阀由阀座、主阀盘、活塞、缸套、弹簧等零件组成。200P黄铜减压阀导阀由阀座、阀瓣、膜片、弹簧、调节弹簧等零件组成,200P黄铜减压阀通过调节弹簧压力设定出口压力,利用膜片传感出口压力变化,通过导阀启闭驱动活塞调节主阀节流部位流过面积的大小,实现减压稳压功能,200P黄铜减压阀主要用于蒸汽管路,起减压稳压作用。

The 200P brass reducing valve is a Pilot operate piston reducing valve, consisting of two parts: the main valve and the pilot valve. 200P brass reducing valve main valve consists of valve seat, main valve disc, piston, cylinder sleeve, spring and other parts. 200P brass reducing valve guide valve consists of valve seat, Disc, diaphragm, spring, adjusting spring and other parts. The 200P brass pressure reducing valve sets the outlet pressure by adjusting the spring pressure. The diaphragm senses the change in outlet pressure and drives the piston through the opening and closing of the pilot valve to adjust the size of the flow through the throttling part of the main valve to achieve the function of pressure reduction and stabilisation. The 200P brass pressure reducing valve is mainly used in steam pipelines to reduce and stabilise pressure.



公称通径(DN)(mm) Nominal diameter (mm)	15	20	25	32	40	50
公称通径(inch) Nominal diameter (in)	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
公称通径(MPa) Nominal pressure (MPa)	1.0/1.6					
L	112	112	135	165	192	231
H	130	130	143	195	222	252

ZAJP/M电动精小型单座、套筒调节阀
ZAJ PM electric miniature single seat adjusting valve

ZAJP、ZAJM电动精小型单座、套筒调节阀是DKZ型电动单元组合仪表中的执行单元,它是生产过程自动调节系统中的重要环节之一。它以电源为动力接受统一的标准信号0-10mA或4-20mA.Dc,将此转为与输入信号相对应的上下位移,自动地操纵阀门,改变阀的开启程度,从而达到对工业介质流量、压力、石油、冶金、电站和轻纺等工业生产过程的自动调节和远程控制。

本系列产品有标准型、波纹管密封型、夹套保温型等多种品种。产品公称压力等级有PN1.6、4.0、6.4MPa;公称通径范围DN20-400mm。

ZAJP, ZAJM electric miniature single seat, simple set adjusting valve is the DKZ electric unit combination instrument of the execution unit, it is one of the important links in the production process of automatic regulation system. It takes the power supply as the power to accept the unified standard signal 0-10mA or 4-20mA.Dc, which is converted into the upper and lower displacement corresponding to the input signal, automatically controls the valve, changes the opening degree of the valve, so as to achieve the flow of industrial media, pressure, oil, metallurgy, power station and textile industrial production process of automatic regulation and remote control.

This series of products are standard type, bellows sealing type, jacket insulation type and other varieties. Nominal pressure grade of products are PN1.6, 4.0, 6.4MPa; Nominal diameter range DN20-400mm.



主要零件材料
Main part material

阀体、阀盖 Valve body, bonnet	阀芯、阀座 Spool, Seat	填料 Packing	垫片 Gasket	阀杆、推杆 Valve stem	衬套 Bushing
HT200、ZC230-450、ZGCR18Ni9Ti、304、316L、316	1Cr18Ni9Ti、司钛莱合金对焊(Surfacing welding of titanium and vegetable alloy)	聚四氟乙烯、柔性石墨、不锈钢波纹管 PTFE Flexible graphite, Stainless steel bellows,	橡胶石板、1Cr18Ni9Ti、石墨缠绕垫片 Rubber SLATE, Graphite wound gasket	2Cr13、1Cr18Ni9Ti	2Cr13

主要技术参数
Main technical parameters

公称通径DN(mm) Nominal flow diameter DN (阀座通径DN)	20				25	32	40	50	65	80	100	125	150	200	250	300
	(10)	(12)	(15)	(20)												
额定流量系数Kv Rated flow coefficient Kv	1.8	2.8	4.4	6.9	11	17.6	27.5	44	69	110	176	275	440	690	1100	1760
固有流量特性 Inherent flow characteristics	1.6	2.5	4	6.3	10	16	25	40	63	100	160	250	400	630	1000	1600
额定行程L(mm) Rated stroke L(mm)	10				16		25		40			60		100		
公称压力PN(MPa) Nominal pressure PN(Mpa)	1.6、4.0、6.4															
固有流量特性 Inherent flow characteristics	直线, 百分比Straight line ,Equal percentage)															
固有可调比R Circle with adjustable ratio R	50:1															
允许泄漏量 Allowable leakage	单座	硬密封:IV级、软密封:IV级Hard Seal:Class IV, Soft Seal:IV														
	套筒	硬密封:IV级、软密封:IV级Hard Seal:Class IV, Soft Seal:IV														
工作温度T(°C) Operating temperature T(°C)	-20~200、-40~450、-60~450															
信号范围(Ma,DC) Signal range (Ma,DC)	0~10 4~20															
电源电压 Supply voltage	220V 50HZ															
作用方式 Mode of action	电开式:电关式Electrically open ; Electrically closed															

ZDLN电子式调节阀
ZDLN Electronic adjusting valve

ZDLN型电子式电动双座调节阀是3810L型电子式电动执行机构和直通双座阀组成, 电动执行机构内配有伺服系统, 无须另配伺服放大器, 输入220V(AC)电源及4-20mA(DC)信号, 即可控制阀门开度, 从而达到对介质的压力、温度、流量、液位等工艺参数的连续调节。该产品具有动作灵敏、能源取用方便、信号传输迅速, 同时具有不平衡力小, 允许压差大, 流量系数大等特点, 广泛应用于电力、冶金、化工、轻纺等行业的自动控制系统。

ZDLN type electronic electric double-seat adjusting valve is 3810L type electronic electric actuator and straight double-seat valve composition, electric actuator is equipped with servo system, without the need for another servo amplifier, input 220V (AC) power and 4-20mA (DC) signal, you can control the valve opening degree, so as to achieve continuous adjustment of medium pressure, temperature, flow, liquid level and other process parameters.

The product has sensitive action, easy energy access, rapid signal transmission, as well as small unbalance force, large allowable differential pressure and large flow coefficient, etc. It is widely used in the automatic control systems of electric power, metallurgy, chemical industry, light textile and other industries.



主要技术参数
Main technical parameters

公称口径DN(mm) Nominal flow diameter DN(mm)	25	32	40	50	65	25	32	40	50	65	50	65	
额定流量系数KV Rated flow coefficient Kv	25	32	40	50	65	25	32	40	50	65	50	65	
公称压力PN(MPa) Nominal pressure PN(Mpe)	1.6、4.0、6.4 (常温Normal temperature), 4.0、6.4 (中温Medium temperature), 0.6、4.0、6.4 (低温Low temperature)												
行程mm Row diameter mn	16		25		40			60		100			
动作速度mm/s Action speed m/s	2.1		3.5		1.7			3.4		2.0			
配电电动执行机构型号 Type of electric actuator to be used	381LSA-20 281LXA-20		381LSB-30 381LXB-30		381LSB-50 381LXN-50			381LSB-65		381LSC-90			
流量特性 Flow rate characteristics	直线、等百分比												
介质温度 Medium temperature	-20~200 (常温Normal temperature), -40~+450 (中温Medium temperature), -250~60 (低温Low temperature)												
法兰尺寸 Flange size	铸铁法兰按JB78-559 铸钢法兰按JB79-59 According to JB 78-559 for cast iron flange, JB79-59 for cast steel flange												
法兰型式 Flange type	按jb77-59, 铸铁法兰按光滑式, 铸钢法兰按凹式, 低温阀按榫档式 according to JB77-59, cast iron flange according to smooth type, The cast steel flange technology concave type, The low temperature valves according to Zen groove type												
阀体材质 Valve body material	公称压力 MPa Nominal pressure PN(Mpe)	0.6	低温Low temperature -250~60°C zg1Cr18Ni9Ti(-196°C), CF8M(-250°C)										
		1.6	常温Normal temperature -20~200°C WCB、CF8、CF8M										
		4.0	常温Normal temperature -20~200°C WCB ZGCr18Ni9Ti										
		6.4	中温Medium temperature -40~450°C WCB ZGCr18Ni9Ti、CF8、CF8M										
			低温Low temperature -250~-60°C ZGCr18Ni9Ti(-196°C)、CF8M(-250°C)										

ZDAQ/X型气动薄膜三通调节阀
ZDAQ/X TYPE Pneumatic film three-way adjusting valve

气动三通调节阀,是由多弹簧气动薄膜执行机构和采用圆筒型薄壁窗口形阀芯的三通合流(分流)阀组成.具有结构简单,重量轻,动作灵敏,流量特性精确,配用电-气阀门定位或气动阀门定位器,可实现对工艺管路流体介质的自动调节控制,广泛应用于精确控气体,液体,蒸汽等介质的工艺参数如压力,流量,温度,液位等参数保持在给定值.适合于把一种流体通过三通阀分成二路流出或把两种流体经三通阀合并成一种流体的工况.

Pneumatic three-way regulating valve is composed of multi-spring pneumatic thin film actuator and three-way confluence (shunt) valve with cylinder-type thin-wall window spool. Has the advantages of simple structure, light weight, action quick, precise flow characteristic, with electricity and gas valve positioning or pneumatic valve positioner, which can realize the process of the pipeline automatic adjustment control, are widely used in the precise control of gas, liquid, steam medium such as process parameters such as pressure, flow, temperature, liquid level parameters, such as in a given value. Suitable for a fluid through the three-way valve into two outflow or two fluid through the three-way valve into a fluid.



主要技术参数

Main technical parameters

公称通径 DN (mm) Nominal flow diameter	合流 combined flow	25	32	40	50	65	80	100	125	150	200	250	300
	分流 Split flow						80	100	125	150	200	250	300
额定流量系数 KV Nominal flow coefficient Kv	合流 combined flow	8.5	13	21	34	52	85	135	210	340	535	800	1260
	分流 Split flow						85	135	210	340	535	800	1260
公称压力MPa Nominal pressure Mpa	1.6、4.0、6.4												
行程mm Stroke mm	16	25	40	60	100								
流量特性 Flow rate characteristics	直线(straight line)												
介质温度 Medium temperature	-20~+200, -40~+250 (常温Normal temperature), -40~+425 (中温Medium temperature)												
法兰尺寸 Flange size	铸铁法兰按JB78-559 铸钢法兰按JB79-59 According to JB 78-559 for cast iron flange, JB79-59 for cast steel flange												
法兰型式 Flange type	按JB77-59,铸铁法兰按光滑式,铸钢法兰按凹式,低温阀按榫档式 according to JB77-59, cast iron flange according to smooth type, The cast steel flange technology concave type, The low temperature valves according to Zen groove type												
阀体材质 Body material	HT200,WCB, ZG1Cr18Ni9Ti												
阀芯材质 Spool material	ZG1Cr18Ni9Ti												
上阀盖型式 Upper bonnet type	普通型、热片型(Normal type (room temperature type) Hot plate type (medium temperature type)												
可调比R Adjustable ratio R	30:01:00												

ZDLN电子式调节阀
ZDLN electronic adjusting valve

ZMA/BP系列气动薄膜直通单座调节阀是自动调节系统中最常用的执行器之一，它具有结构简单、动作可靠、泄漏量小及不会发生火灾爆炸等优点，因此广泛地应用于石化、冶金、电站等工业部门的自控系统。由于它阀芯上的不平衡力较大，尤其是大口径时，平衡力增大，因此适用于压差较小又要求泄漏量小的场合。

ZMA/BP series pneumatic film straight-through single-seat adjusting valve is one of the most commonly used actuators in automatic control systems, which has the advantages of simple structure, reliable action, small leakage and no fire and explosion. Therefore, it is widely used in petrochemical, metallurgy, power station and other industrial sectors of the self-control system. Because of the large unbalance force on its spool, especially in large diameter, the balance force increases, so it is suitable for occasions where the differential pressure is small and the leakage volume is required to be small.



产品型号

Product type

产品型号	2MABP-16 BK	ZMABB-40BK	ZMABB-64BK	ZMABB-40G	ZMABB-64G
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主要技术参数

Main technical parameters

公称通径DN(mm) Nominal flow diameter DN(mm)	25	32	40	50	65	80	100	125	150	200	250	300
额定流量系数KV Rated flow coefficient Kv	10	16	25	40	63	100	160	250	400	630	1000	1600
公称压力PN(MPa) Nominal pressure PN(Mpe)	1.6、4.0、6.4(常温), 4.0、6.4(中温),											
行程mm Row diameter mn	16	25		40			60		100			
流量特性 Flow rate characteristics	直线、等百分比											
介质温度 Medium temperature	-15~+200,-40~250(常温Normal temperature), -40~+450(中温Medium temperature),											
法兰尺寸 Flange size	铸铁法兰按JB78-559 铸钢法兰按JB79-59 According to JB 78-559 for cast iron flange, JB79-59 for cast steel flange											
法兰型式 Flange type	按JB77-59,铸铁法兰按光滑式,铸钢法兰按凹式 according to JB77-59, cast iron flange according to smooth type, The cast steel flange technology concave type, The low temperature valves according to Zen groove type											
阀体材质 Valve body material	1.6	HT200										
	4、6.4	WCB, ZG1Cr18Ni9Ti										
阀芯材质 Spool material	1Cr18Ni9Ti											
上阀盖型式 Upper bonnet type	普通型、热片型(Normal type (room temperature type) Hot plate type (medium temperature type)											
可调比R Adjustable ratio R	30:1											

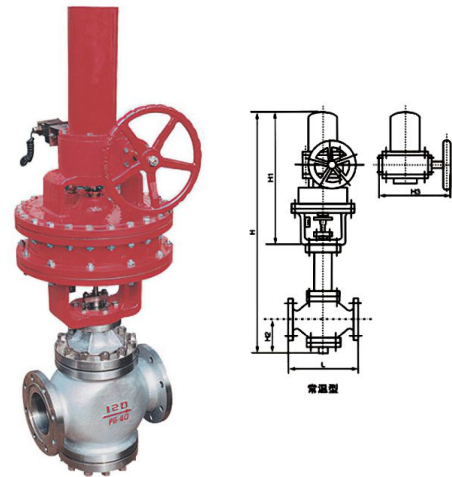
注:可为用户提供ANSI、JPI、JIS等国外法兰标准的产品,可按需确定

Note: Foreign flange standards such as ANSI, JPI and JIS are available for users, and the length of the structure can also be determined according to user needs.

ZSPQ气动活塞快速切断阀
ZSPQ TYPE Pneumatic piston quick cut-off Valves

ZSPQ气动活塞切断阀由切断机构与气动活塞执行机构组成。切断机构采用直通单座形式，DN20阀芯为单导向，DN25-200阀芯为双导向，具有结构简单，操作方便，使用可靠，快速开闭等特点。主要用于无杂质、无颗粒的液体、气体介质，要求快速严密关闭。快速放空的自动控制系统中。

ZSPQ Pneumatic piston quick cut-off Valves is composed of a cut-off mechanism and a pneumatic piston actuator. The cutting mechanism is in the form of a straight single seat, with a single oriented spool for DN20 and a double oriented spool for DN25-200, featuring simple structure, easy operation, reliable use and fast opening and closing. Mainly used in impurity-free, particle-free liquid and gaseous media, requiring fast and tight closure. Quickly emptying in the automatic control system.



主要技术参数

Main technical parameters

公称口径DN(mm) Nominal diameter DN(mm)	20	25	32	40	50	80	100	125	150	200
阀座直径DNN(mm) Valve seat diameter DN(mm)	26	43	43	52	62	94	115	140	166	216
额定系数KV Rated flow coefficient Kv	6.5	10	15	25	40	100	150	260	350	540
公称压力PN(MPa) Nominal pressure PN(Mpa)	4.0,6.4									
行程L(mm) Stroke L(mm)	16		25			40		60		
介质温度℃ Media temperature	-20~150(常温Normal temperature), -20~450(中温Medium temperature), -20~550(高温), -250~60(低温Medium temperature)									
流量特性 Flow rate characteristics	两位快开式Two-position fast-opening type									
配用执行机构型号 Actuator type	ZSD-2		ZSD-3			ZSD-5		ZSD-7		
法兰尺寸 Flange size	按JB79-559 According to JB79-559									
法兰型号 Flange type	法兰密封型式按JB77中凹式 Flange seal type according to Jb77 in concave									
阀体材质 Valve body material	ZG340-450,ZG1Cr18Ni9Ti,ZG0Cr18Ni12MO2Ti,CF8M(-254℃)									

性能指标

Performance indicators

公称口径mm Nominal diameter mm	20	25	32	40	50	65	80	100	125	150	200
泄漏量 ml/min Leakage ml/min	软密封 Soft seal	0									
	硬密封 Hard seal	≤1	≤3			≤5		≤7		≤9	
切断时间S Cut-off time s	1-2					2-4					
额定行程偏差% Rated travel deviation %	±15										

允许压力差

Main technical parameters

公称口径mm Nominal diameter mm	20	25	32	40	50	65	80	100	125	150	200
允许压差(MPa) Allowable differential pressure Mpa	4.0					4.0	4.0	2.8	3.5	2.4	
						(2.5)	(1.7)	(1.0)	(1.1)	(0.8)	(1.6)

ZQGP型气动快速切断阀
ZQGP Pneumatic quick cut-off Valves

ZQGP型气动快速切断阀由国内首次推出的气动多弹簧活塞执行机构和低流阻、双重密封结构的切断阀组成。执行机构动作速度快、推力大、有自复位功能、带手操机构;阀体流路通畅,流量系数大、阀芯阀座有弹性和刚性串级双重密封。新颖独特的结构使本产品成为一类快速动作严密切断、安全可靠的高性能新型切断阀。

滚长本产品性能优良、规格齐全,还有形体小、重量轻等优点,它能满足化工、石油、冶金和其它工业部门生产过程中自动快速排放和紧急切断的操作要求,适用于生产过程和设备的安全保护系统,也适用于一般的两位控制和开关操作场合。



ZQGP TYPE Pneumatic quick cut-off Valves is composed of a pneumatic multi-spring piston actuator and a low flow resistance, double-sealed structure shut-off valve, the first of its kind in China. The actuator is fast, has a large thrust, a self-resetting function and a hand-operated mechanism; the valve body has a smooth flow path, a large flow coefficient and spool, valve seat with a double seal of elastic and rigid tandem level. The novel and unique structure makes this product a new type of high performance cut-off valve with fast action and tight cut-off, safe and reliable.

This product has excellent performance, complete specifications, as well as the advantages of small size and light weight. It meets the operational requirements for automatic rapid discharge and emergency cut-off in production processes in the chemical, petroleum, metallurgical and other industrial sectors and is suitable for safety protection systems for production processes and equipment, as well as for general two-position control and switching operation field stations.

主要技术参数

Main technical parameters

公称压力(MPa) Nominal pressure (Mpa)	1.6、6.4							
公称通径mm Nominal pressure (Mpa)	25	40	50	65	80	100	150	200
额定流量系数KV Nominal pressure (Mpa)	10	25	40	63	100	160	400	630
额定行程mm Nominal pressure (Mpa)	10	16		30			60	
气缸有效面积cm ² Nominal pressure (Mpa)	180	360		700			1400	
全行程时间s Nominal pressure (Mpa)	≤1			≤1.5			≤2	
允许压差(MPa) Nominal pressure (Mpa)	6.4				4.8	3.1	2.7	1.6
泄漏量 Nominal pressure (Mpa)	硬密封:1×10 ¹ 额定容量Hard seal:1×1×10 ¹ rated capacity							
	软密封:VI级(GB/T4213) Soft seal :class VI(GB/T4213)							
操作压力MPa Nominal pressure (Mpa)	500							
工作温度°C Nominal pressure (Mpa)	-40~+250, -40~+450, -40~+180							
环境温度°C Nominal pressure (Mpa)	-40~+70							

主要零件材料

Main parts materials

零件名称 Part name	材料 materials
阀体、阀盖 Valve body, Bonnet	ZG304-450,ZG1Cr18Ni9,ZG0Cr18Ni12Mo2Ti
阀芯、阀座 Valve spool, valve seat	1Cr18Ni9,0Cr18Ni12Mo2Ti,密封面堆焊史太立合金Seal surface welded with Stellite alloy
阀座圈 Seat ring	0Cr18Ni12Mo2Ti,聚四氟乙烯 (PTFE,)
填料 Packing	聚四氟乙烯,柔性石墨 (PTFE, flexible graphite)

ZZYP型自力式压力调节阀
ZZYP type self-operated pressure adjusting valve

ZZYP型自力式压力调节阀是不需要任何外加能源,利用被调介质自身能量而实现自动调节的执行器产品,该产品最大特点是能在无电、无气的场所工作,同时又节约了能源,压力设定值在运行中可随意调整。采用快开流量特征,动作灵敏、密封性能好,因而它广泛应用于石油、化工、电力、冶金、食品、轻纺、机械制造与居民建筑楼群等各种工业设备中各种气体、液体及蒸汽介质减压、稳压(用于阀后调节),或泄压、持压(用于阀前调节)的自动控制。附设冷凝器可在 ≤ 350 温度下使用。

ZZYP type self-operated pressure adjusting valve is without any additional energy, the use of the regulated medium's own energy to achieve automatic adjustment of the actuator products, the product's most important feature is to work in places without electricity and gas, while saving energy, the pressure setting value in operation can be adjusted at will. With fast-opening flow characteristics, sensitive action and good sealing performance, it is widely used in petroleum, chemical, electric power, metallurgy, food, light textile, machinery manufacturing and residential building groups and other industrial equipment of various gases, liquids and steam media pressure reduction, pressure stabilization (for post-valve adjustment), or pressure relief, pressure holding (for pre-valve adjustment) of automatic control. With condenser can be used at ≤ 350 temperature.



工作温度与作用介质压力的关系

The relationship between operating temperature and the pressure of the acting medium

公称通径DN(mm) Nominal flow diameter DN(mm)	20	25	32	40	50	65	80	100	125	150	200	250	300	
额定流量系数Kv Rated flow coefficient Kv	7	11	20	30	48	75	120	190	300	480	760	1100	1750	
额定行程(mm) Rated stroke(mm)	8					14		25		40		50	60	70
公称压力PN(MPa) Nominal pressure PN(Mpa)	1.6、4.0、6.4													
压力调节范围(Kpa) Pressure adjustment range(Kpa)	15~50 40~80 60~100 80~140 120~180 160~220 220~260 240~300 280~350 330~400 380~450 430~500 180~560 540~620 600~700 680~800 780~900 880~1000 600~1500 1000~2500													
流量特性 Flow rate characteristics	快开 Fast opening													
调节精度(%) Adjustment accuracy(%)	±5													
使用介质 Medium of use	热水、蒸汽、各种气体及低粘度介质(Hot water, steam, various gases and low viscosity media)													
使用温度°C Operating temperature	-20~80 -20` 350													
允许泄漏量 Allowable leakage	硬密封 hard seal (ml/h)	单座: ≤ 10 的负四次方的额定容量(IV级); 双座、套筒 $\leq 5 \times 10$ 的负三次方的额定容量(II级) Single-seated: $<10^4$ valve rated capacity (Class IV) Double-seated, sleeve simple: $<5 \times 10^3$ valve rated capacity (Class II)												
	软密封 soft seal (ml/h)	0.15	0.30	0.45	0.60	0.90	1.7	4.0	6.75	11.1	11.6			
减压比 Pressure reduction ratio	最大 MAX	10												
	最小 MIN	12.5												

HLS小口径单座调节阀(CV3000系列)

HLS TYPE Small Bore Single Seat adjusting valves (CV3000 Series)

结构紧凑,有呈S流线型的通道,使其压降损失小,流最大,可调节范围广,流量特性精度高,符合IEC534-1-1976标准。调节阀的泄露量符合ANSIB16,104标准。调节阀配用多弹簧薄膜执行机构,其结构紧凑,输出力大。

本产品符合GB/T4213-92

Compact structure, with S-shaped flow channels, resulting in small pressure drop losses, maximum flow, wide adjustable range and high accuracy of flow characteristics, in accordance with IEC 534-1-1976. Leakage of adjusting valves according to ANSIB 16,104. The adjusting valve is equipped with a multi-spring film actuator, which has a compact structure and a large output force.

This product conforms to GB/T4213-92



工作温度与作用介质压力的关系

The relationship between operating temperature and the pressure of the acting medium

公称通径DN(mm) <small>Nominal flow diameter DN(mm)</small>	20		25
公称压力PN(MPa) <small>Nominal pressure PN(Mpa)</small>	ANSI125、150、300、600	JIS10、16、20、30、40K	PN1.6、4.0、6.4Pa
连接形式	法兰连接Flange: FF、RF、R、LG、沟槽型Groove、嵌入式Embedded type		
	法兰标准Flange standard: JISB2201-1984、ANS1B16.5-1981、JB79-59等		
	焊接连接Welded,承插焊SW		
材料	铸钢cast steel(ZG230-450)、不锈钢stainless steel(7 GICr18Ni9Ti、ZG1Cr18Ni12Mo2Ti、2G316L)、钛Titanium等		
上阀盖	常温型Normal temperature(P):-17~+230°C:伸长I型Elongated type(EI):“45v-17°C+230~566°C		
	伸长型Elongated type(E):-100~-45°C伸长型Elongated type(E D):-196~-100°C		
型式	直通单座铸造球阀(Straight single seat cast ball valves)		
压盖型式	螺栓压紧式(Bolt down type)		
填料	V型聚四氟乙填料、含浸聚四氟乙烯石棉填料、石墨填料 V type PTEF packing, PTEF asbestos packing, Graphite packing		

注:工作温度不准超过各种材料的允许范围

Note: Working temperatures are not allowed to exceed the permissible range for the various materials.

阀内组件

In-valve components

阀芯型式(Spool type)	单座柱塞型阀芯(Single-seated plunger type spool)
流量特性 (Flow characteristics)	金属阀座等百分比特性(CF)和线性特性(LCF) <small>Equal percentage characteristic (%CF) and linear characteristic (LCF)</small>
	C值从0.04-14的高精度流量特性符合IEC534-1-1976标准 <small>High precision flow characteristics from 0.04 to 14 Cv in accordance with IEC 534-1-1976</small>
	软阀座等百分比特性(%C)和线性特性(LTF) <small>Soft seats Equal percentage characteristic (%CF) and linear characteristic (LTF)</small>
材料(Material)	不锈钢(1Cr18Ni9Ti、1Cr18Ni12Mo2Ti、17-4PH、9Cr18、316L)
	不锈钢堆焊司太莱合金、钛和耐腐蚀合金等 <small>Stainless steel overlays of Stellite, titanium and corrosion resistant alloys, etc.</small>

V230Y01/02 型自力式压力调节阀
V230Y01/02 Type Self-operated pressure adjusting valves

V230Y01、V231Y02型自力式压力调节阀由阀体、阀座、阀芯部件等组成,是一种无需外来能源而只依靠被调介质自身的压力变化进行自动调节压力的节能型产品,可用于非腐蚀性的液体、气体和蒸汽等介质的压力控制装置。广泛用于石油、化工、冶金、轻工等工业部门及城市供热、供暖系统。本产品有公称压力PN16、40,公称通径范围20-300mm,使用温度350摄氏度。多种多样的品种可供选择。

V230Y01, V231Y02 self-operated pressure regulating valve is composed of valve body, valve seat, spool parts, etc. It is an energy-saving product that automatically regulates pressure without external energy and relies only on the pressure change of the regulated medium itself, and can be used as a pressure control device for non-corrosive liquid, gas and steam media. Widely used in petroleum, chemical, metallurgy, light industry and other industrial sectors and urban heating and heating systems. This product is available in nominal pressure PN16, 40, nominal diameter range 20-300mm, use temperature <350 degrees Celsius. A wide variety of species are available.



主要技术参数
Main technical parameters

公称通径DN(mm) Nominal flow diameter DN(mm)	20	25	32	40	50	65	80	100	125	150	200	250	300
额定流量系数Kv Rated flow coefficient Kv	7	11	20	30	48	75	120	190	300	480	760	1100	1750
额定行程(mm) Rated stroke(mm)	8		10		14	20		25	40		50	60	70
公称压力PN(MPa) Nominal pressure PN(Mpa)	1.6、6.4												
压力调节范围(Kpa) Pressure adjustment range(Kpa)	15~50 40~80 60~100 80~140 120~180 160~220 220~260 240~300 280~350 330~400 380~450 430~500 180~560 540~620 600~700 680~800 780~900 880~1000 600~1500 1000~2500												
流量特性 Flow rate characteristics	快开Fast-opening												
调节精度(%) Adjustment accuracy(%)	±5												
使用介质 Medium of use													
使用温度°C Operating temperature	≤350												
允许泄漏量 Allowable leakage	硬密封 hard seal (ml/h)	单座: ≤10的负四次方的额定容量 (IV级); 双座、套筒 ≤5×10的负三次方的额定容量 (II级) Single-seated: <10' valve rated capacity (Class IV) Double-seated, sleeve simple: <5X10 valve rated capacity (Class II)											
	软密封 soft seal (ml/h)	0.15	0.30	0.45	0.60	0.90	1.7	4.0	6.75	11.1	11.6		
减压比 Pressure reduction ratio	最大 MAX	10											
	最小 MIN	12.5											

V230Y11/12型自力式差(微)压调节阀
V230Y11/12 type Self-operated differential pressure adjusting valve

V230Y型自力式差(微)压调节阀是一种不需外来能源的节能型产品,利用工艺管道中的压力变化与信号进行比较,使被调介质的力与执行机构的输出力平衡,以达到确定的压力、差压值。主要用于各种工业炉气体燃烧系统,控制甲、乙两种燃料混合比流量,以达到理想的燃烧条件。可用于汽轮发电机密封油系统中,确保发电机组正常安全运行并提高发电效率。可用于煤气、天然气、液化气、石油气、氨气等各种工业气体的减压、微压调节。该阀也可应用于石油、化工、冶金、制药等工业部门过程差压或微压,平衡系统的自动调节。



V230Y self-operated differential (micro) pressure adjusting valve is an energy-saving product that does not require external energy. It uses the pressure change in the process pipeline to compare with the signal so that the force of the regulated medium is balanced with the output force of the actuator to achieve a determined pressure and differential pressure value. - Mainly used in various industrial furnace gas combustion systems to control the mixing ratio flow of A and B fuels in order to achieve ideal combustion conditions. It can be used in the confidential oil sealing system of turbine power generation to ensure the normal and safe operation of the generator set and to improve the efficiency of power generation. It can be used for the decompression and micro-pressure regulation of various industrial gases such as gas, natural gas, liquefied gas, LPG, ammonia, etc. The valve can also be used in petroleum, chemical, metallurgical, pharmaceutical and other industrial sectors process differential pressure or micro-pressure, balancing the automatic regulation of the system.

主要零件材料

Main parts material

阀体 (Valve body)	HT200, ZG230-450, ZG1Cr18Ni9Ti, ZG1Cr18Ni12Mo2Ti
阀芯 (Spool)	Cr18Ni12Mo2Ti, 1Cr18Ni9Ti
阀座 (Seat)	Cr18Ni12Mo2Ti, 1Cr18Ni9Ti
弹簧 (Bullet)	60Si12Mn, 1Cr18Ni9Ti, 50CrVA
波纹管 (Bellows)	1Cr18Ni9Ti
膜片 (Diaphragm)	Nitrile rubber, oil resistant rubber, fluorine rubber
膜盖 (Membrane cover)	A3, 1Cr18Ni9Ti

主要技术参数

Main technical parameters

公称通径DN (mm) Nominal flow diameter DN (mm)	20	25	32	40	50	65	80	100	
额定流量系数 Kv Rated flow coefficient Kv	单座 Single seat	8	11	20	32	50	80	100	160
	双座 Double seat					53	83		
额定行程L (mm)	6	8		10		15		20	
公称压力PN (MPa) Nominal pressure PN (Mpa)	0.10、1.0								
差压调节范围 (Kpa) Pressure regulation range (Kpa)	0.5~5.5、5~10、9-14、13~19、18~24、22~-28、2633、31~38、36~44、42~51、49~58、56~66、64~78、76~90、88~100								
介质温度 (%) Media temperature (%)	≤80								
调节精度 (%) Adjustment accuracy (%)	≤10								
允许泄漏量 (1/h) Allowable leakage volume (1/h)	单座 Single seat	单座: ≤10的负四次方的额定容量 (IV级); Single-seated: <10' valve rated capacity (Class IV)							
	双座 Double seat	双座、套筒 ≤5×10的负三次方的额定容量 (II级) Double-seated, sleeve simple: <5X10 valve rated capacity (Class II)							

减温减压阀

Temperature and pressure reduction device

用途 (Use)

WY系列减温减压装置配上相应的工业自动化控制系统,可对电站或工业锅炉以及热电厂等处输送来的一次(新)蒸汽压力P1、温度t1进行减温减压,使其二次蒸汽压力P2、温度t2达到生产工艺所需的要求。WY系列减温减压装置及其热控柜广泛用于电站、轻纺、石化等行业。

WY series temperature and pressure reducing device with the corresponding industrial automation control system, can be used in power stations or industrial boilers and thermal power plants and other places to transport the primary (new) steam pressure P, temperature t, to reduce temperature and pressure, so that its secondary steam pressure P, temperature t; to meet the requirements of the production process. WY series temperature and pressure reducing device and its thermal control cabinet are widely used in power stations, light textile, petrochemical and other industries.

结构特点 Structural Features

WY系列减温减压装置是本厂积数十年设计、制造的经验,并吸取国外先进结构而开发的新一代减温减压装置。

WY series temperature and pressure reducing device is a new generation of temperature and pressure reducing device developed by our factory with decades of experience in designing and manufacturing, and absorbing advanced structure from abroad.

WY系列减温减压装置由减压系统(减压阀、节流孔板等)、减温系统(高压差可调喷嘴等)、安全保护装置(安全阀、止回阀)等组成,主要特点如下(WY series temperature and pressure reducing device consists of pressure reducing system (pressure reducing valve, throttle plate, etc.), temperature reducing system (high pressure difference adjustable nozzle, etc.), safety protection device (safety valve, check valve), etc. The main features are as follows.):

1、减压部分是由减压阀、节流孔板等组成,消除了过去的由减温减压阀产生的热应力,增强了装置的安全性,延长了装置的使用寿命,同时也降低了装置的噪音。The pressure reducing part is composed of pressure reducing valve, throttle orifice plate, etc., which eliminates the thermal stress generated by the temperature reducing pressure reducing valve in the past, enhances the safety of the device, extends the service life of the device, and also reduces the noise of the device.

2、减温部分是由可调节喷嘴来完成的,它集分配阀、节流装置、喷嘴功能于一体,它既可对高压水进行减压,又可控制冷却水的喷射量,还可像喷嘴那样进行喷射,它克服过去喷嘴与节流装置不可调的缺点,这一改革带来了以下一些优点(The temperature reduction part is completed by the adjustable nozzle, which integrates the functions of distribution valve, throttling device and nozzle, it can not only depressurize the high-pressure water, but also control the amount of cooling water injection, and can be sprayed like a nozzle, which overcomes the shortcomings of the past nozzle and throttling device can not be adjusted, this reform has brought the following advantages.):

2.1、喷嘴的喷射速度不再随负荷变化而改变。

Nozzle injection speed no longer varies with load

2.2、缩短了水滴蒸发时间,提高了雾化效果。

The evaporation time of water droplets is shortened and the atomization effect is improved

2.3、出口流量最大调节,范围可以达到1:10。

Outlet flow maximum adjustment, the range can reach 1:10

2.4、简化了系统,取消回水装置,增加运行安全系数(减温水压力大于除氧器压力),减少了占地面积,降低了工程投资,又便于安装与调试。

The system is simplified, the backwater device is cancelled, the operation safety factor is increased (the pressure of the deaerator is greater than the pressure of the deaerator), the floor area is reduced, the project investment is reduced, and it is easy to install and debug.

主要性能指标 Main performance indicators

1、进口蒸汽压力 $P1 \leq 3.82\text{MPa}$ (39kgf/cm²), 温度 $T1 \leq 450^\circ\text{C}$

Inlet steam pressure $P1 \leq 3.82\text{MPa}$ (39kGF/cm²), temperature $T1 \leq 450^\circ\text{C}$

2、出口流量Q减温减压装置出口流量Q的变化范围为10%Q~100%Q,在此范围内调节比较理想,若有特殊要求,另行商定。

Outlet flow Q temperature reduction and pressure reduction device outlet flow Q changes in the range of 10% Q ~ 100% Q, in this range of adjustment is more ideal, if there are special requirements, agreed separately.

3、出口蒸汽压力P2 (Outlet steam pressure P2)

出口蒸汽压力P2的调节精确度不低于2.5级,误差不大于 $\pm 0.04\text{MPa}$

The adjustment accuracy of outlet steam pressure P2 is not less than 2.5 grade and the error is not more than $\pm 0.04\text{MPa}$

4、出口蒸汽温度T2 (Outlet steam temperature T2)

出口蒸汽温度T2的调节精确度不低于2.5级,误差不大于 $\pm 5^\circ\text{C}$

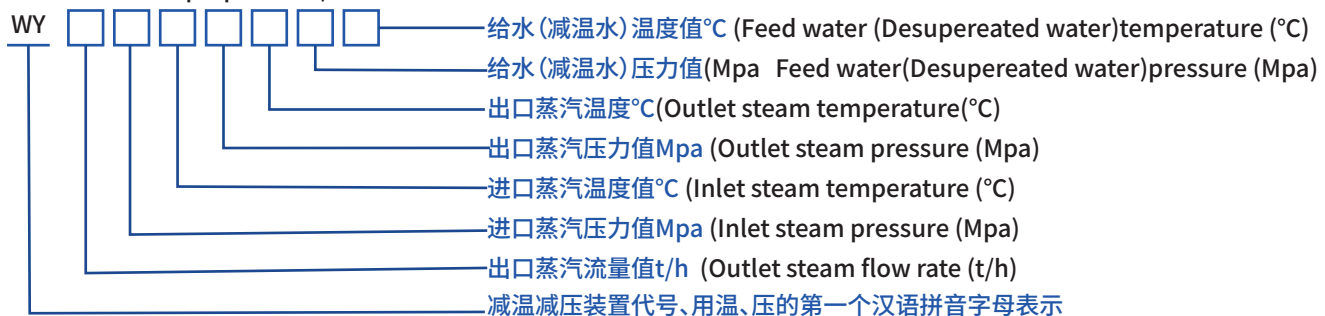
Outlet steam temperature T2 regulation accuracy of not less than 2.5 levels, the error is not greater than $\pm 5^\circ\text{C}$

5、噪音 (Noise)

装置正常运行时,在减压阀或减温减压阀下游一米,同时距管壁一米处测其噪音,噪音声级应不大于80分贝。

When the device is in normal operation, one meter downstream of the pressure reducing valve or temperature reducing valve, while one meter from the pipe wall to measure its noise, the noise level should not be greater than 80 decibels.

型号编制 (Model preparation)



Temperature reduction and pressure reduction device code, with temperature, pressure of the first Chinese phonetic alphabet

例: WY80-3.82/450-0.98/260-8.0/104表示出口蒸汽流量为80t/h: 进口蒸汽压力3.82MPa, 温度 450°C , 出口蒸汽压力为0.98MPa, 温度 260°C ; 减温水压力为8.0MPa, 温度 104°C 的减温减压装置。
Example: WY80-3.82/450-0.98/260-8.0/104 indicated that the outlet steam flow is 80t/h, the inlet steam pressure is 3.82mpa, temperature is 450°C , the outlet steam pressure is 0.98mpa, temperature is 260°C ; Temperature reducing and pressure-reducing device with water pressure of 8.0MPa and temperature of 104°C .

初步设计及施工图设计的资料及其选用 Preliminary design and construction drawing design information and its selection

1. WY-01型减温减压装置系列图 (图一)

WY-01 type temperature and pressure reducing device series diagram (Figure 1)
WY-01型减温减压装置由减压阀、可调喷嘴及一套主安全阀、冲量安全阀等组成，共有91种规格，常用出口蒸汽管径D.在200~400mm 之间，出口蒸汽流量在Q=5t/h~80t/h范围内。该系列各规格的结构尺寸见表二。
WY-01 type temperature and pressure reducing device consists of pressure reducing valve, adjustable nozzle and a set of main safety valve, impulse safety valve, etc. There are 91 specifications, commonly used export steam pipe diameter D. between 200 ~ 400mm, the export steam flow in Q = 5t / h ~ 80t / h range. The series of structural dimensions of each specification is shown in Table II.

2. WY-02型减温减压装置系列图 (图二)

WY-02 type temperature and pressure reducing device series diagram (Figure 2)
WY-02系列减温减压装置比WY-01系列多一套主安全阀和冲量安全阀，其余基本相同，共有28种规格，出口蒸汽管径DN从400~600mm，常用出口蒸汽流量在Q=25t/h~120t/h范围内。该系列各规格的结构尺寸见表三。
WY-02 series temperature and pressure reducing device than WY-01 series more than a set of main safety valve and impulse safety valve, the rest is basically the same, a total of 28 specifications, export steam pipe diameter DN from 400 ~ 600mm, commonly exported steam flow in the Q = 25t/h ~ 120t/h range. The series of structural dimensions of each specification is shown in Table III.

3. WY-05型减温减压装置系列图 (图三)

WY-05 type temperature and pressure reducing device series diagram (Figure 3)
WY-05复型减温减压装置由减压阀、可调喷嘴及弹簧安全阀等组成，WY-05系列各有27种规格，出口蒸汽管径DN在80~150mm之间，常用出口蒸汽流量在Q=2~15/h范围内。WY-05系列各规格的结构尺寸见表四，WY-06系列各规格的结构尺寸见表五。
WY-0 compound temperature and pressure reducing device consists of pressure reducing valve, adjustable nozzle and spring safety threshold, WY-05 series have 27 kinds of specifications, export steam pipe diameter DN between 80 ~ 150mm, commonly used export steam flow in the range of Q = 2 ~ 15/h. WY-05 series of structural dimensions of each specification is shown in Table IV, WY-06 series of structural dimensions of each specification is shown in Table V.

4. 减温减压装置选型表 (表一)

Temperature reduction and pressure reduction device selection table (Table I)
减温减压装置选型表中对常用的中、低压锅炉的新蒸汽参数p1、t1减至出口蒸汽参数P2=1.4~0.1MPa, t2=400~130°C, 流量Q=2~120t/h, 范围内的减温减压装置，逐一给出了对应参数所需的装置系列规格代号。
Temperature and pressure reduction device selection table for commonly used in the new steam parameters of low-pressure boilers p1, t1 reduced to the export steam parameters P2 = 1.4 ~ 0.1MPa, t2 = 400 ~ 130 °C, the flow rate Q = 2 ~ 120t/h, the range of temperature and pressure reduction devices, one by one to give the corresponding parameters required for the device series specifications code.

注：①表一中所列各参数是常规参数，若特殊参数在表中查不到对应的系列规格代号，可与本公司开发部联系；
②编制本表时，减温给水参数以压力Pb=P2+0.5MPa, 温度tb=104°C计算。
Note: ①The parameters listed in Table I are conventional parameters, if special parameters are not found in the table corresponding to the series specification code, you can contact our development department;
②In the preparation of this table, the parameters of temperature reduction water supply are calculated with pressure Pb=P2+0.5MPa and temperature tb=104°C.

5. 减温减压装置各系列、规格的结构尺寸表 (表二至表五)

The structure size table of each series and specification of temperature reducing and pressure reducing device (Table II to Table V)
对应于减温减压装置示意图：图一、图二、图三、表二至表五给出了减温减压装置各系列、规格的主要结构尺寸。
Corresponding to the temperature and pressure-reducing device illustration: Figure I, Figure II, Figure III, Table II to Table V gives the main structural dimensions of each series and specification of the temperature and pressure-reducing device.

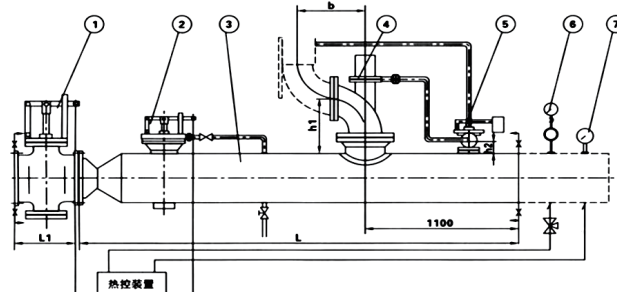
6. 减温减压装置选用 Temperature and pressure reduction device selection

减温减压装置的选用步骤如下：
The procedure for selecting a temperature and pressure reduction device is as follows;
①根据出口蒸汽流量Q、一次新蒸汽参数压力P1, 温度t1, 出口二次蒸汽压P2, 温度t2, 从减温减压装置选型表一中查出所需的减温减压装置系列、规格代号；
According to the export steam flow Q, primary new steam parameters pressure P1, temperature t1, export secondary steam pressure P2, temperature t2, from the temperature and pressure reducing device selection table I to find out the required temperature and pressure reducing device series, specifications code;
②由减温减压装置系列、规格代号从表二至表五中就可查了该系列减温减压装置的主要结构尺寸。
By the temperature and pressure reducing device series, the specification code from Table II to Table V can be found in the main structural dimensions of the series of temperature and pressure reducing devices.
有了减温减压装置的系列代号、减温减压装置系列图及系列规格的结构尺寸表就可满足初步设计及施工图设计需要。
With the series code of temperature and pressure reducing device, temperature and pressure reducing device series diagram and series specifications of the structure size table can meet the preliminary design and construction drawings design needs.

例：一套出口蒸汽流量Q=5t/h, 一次新蒸汽压力p1=1.3MPa, 温度t1=300°C, 二次蒸汽压p2=0.6MPa, 温度t2=190°C的减温减压装置，从选型表一中得其系列规格代号为：WY05-007MX, 得知该装置WY-05系列，见系列图图三；从表四中通用细表号WY05-077MY一栏中即可查得其主要结构尺寸。
Example: a set of export steam flow Q = 5t/h, a new steam pressure p1 = 1.3MPa, temperature t1 = 300 °C, secondary steam pressure p2 = 0.6MPa, temperature t2 = 190 °C of the temperature reduction and pressure reduction device, from the selection table in Table I of its series specifications code: WY05-007MX, know the device WY-05 series, see the series chart Figure III; from Table IV in general The main structural dimensions can be found in the column of the detailed table number WY05-077MY.

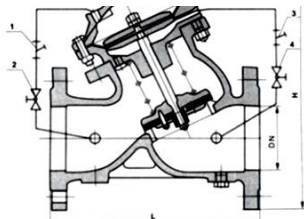
减温减压装置系列图

Temperature reducing and pressure reducing device series diagram

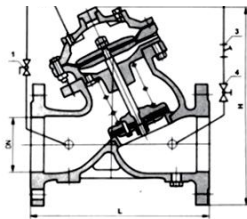


序号	名称 Name
1	减压阀 Reducing Valve
2	可调喷嘴 Adjustable nozzle
3	主管道 Main
4	主安全阀 Main safety valve
5	冲量安全阀 Flush safety valve
6	压力表 Pressure Gauges
7	双金属温度计 Bimetal Thermometer

YX741X隔膜阀可调减压稳压阀
YX741X Diaphragm valve adjustable pressure reducing and stabilizing valve

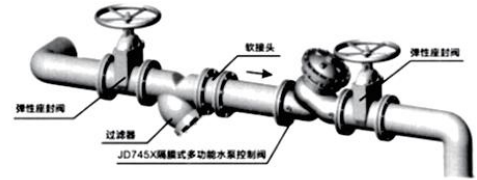


1、过滤器 2、小球阀 3、过滤器 4、小球阀

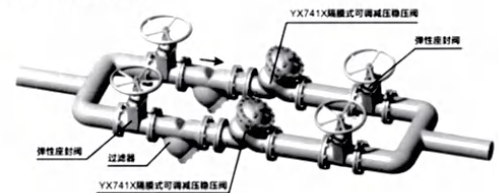


1、小球阀 2、导阀 3、过滤器 4、小球阀

典型安装示意图



典型安装示意图



隔膜式多功能水泵控制阀是安装在高层建筑给水系统以及其他给水系统的水泵出口处,防止介质倒流、水锤及水击现象的智能型阀门,该阀兼具电动阀、逆止阀和水锤消除器三种功能,可有效地提高供水系统的安全可靠性。并将缓开、速闭、缓闭消除水锤的技术原理一体化,防止开泵水锤和停泵水锤的产生。只需操作水泵电机启闭按钮,阀门即可按照水泵操作规程自动实现启闭,流量大、压力损失小。隔膜式适用于600口径以下的阀门。

Diaphragm multifunctional pump control valve is installed in the water supply system of high-rise buildings and other water supply system at the outlet of the pump to prevent the backflow of media, water hammer and water hammer phenomenon of intelligent valves, the valve both electric threshold, check valve and water hammer eliminator three functions, can effectively improve the safety and reliability of the water supply system. And the slow opening, fast closing, slow closing pin in addition to the integration of the technical principle of water hammer, to prevent the production of water hammer on the pump and stopping the pump water hammer. Only need to operate the pump motor opening and closing button, the valve can automatically realize opening and closing according to the pump operating procedures, with large flow and small pressure loss. Diaphragm type is suitable for valves below 600 caliber.

隔膜可调式减压稳压阀是安装于高层建筑给排水系统管道上,将进口压力减至某一需要的出口压力的特种阀门,该阀门依靠本身能量使出口压力保持稳定在设定值,即出口压力不因进口压力及流量的变化而变化,并且阀门控制系统的进口处装有一个自清洁滤网,利用流体特性,使比重较大、直径较大的悬浮颗粒不会进入控制系统,确保系统循环畅通无阻,使阀门能安全可靠地运动。系统动作灵敏、使用寿命长。

Diaphragm adjustable pressure reducing and stabilizing valve is installed in high-rise building water supply and drainage system pipeline, the import pressure is reduced to a certain required outlet pressure of the special valve, the valve relies on its own energy to keep the outlet pressure stable in the set value, that is, the outlet pressure does not change due to changes in the import pressure and flow, and the valve control system is equipped with a self-cleaning screen at the import, the use of fluid properties, so that the specific gravity of larger, straight through The larger suspended particles will not enter the control system to ensure that the system circulation is unobstructed, so that the valve can be safe and reliable movement. System action is sensitive, long service life.

主要连接外型尺寸

Main connection dimensions

单位:mm

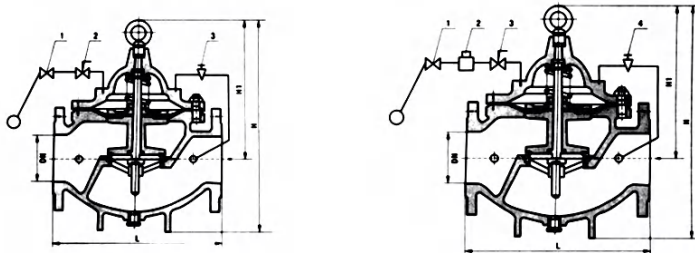
Unit:mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	203	216	241	292	330	356	380	400	480	620	650	730	914	1067
H	293	328	364	418	481	543	673	729	927	957	1188	1218	1256	1600

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	203	216	241	292	330	356	380	400	480	620	650	730	914	1067
H	300	337	467	520	580	640	778	889	1010	1037	1188	1264	1324	1600

100X隔膜阀遥控浮球阀

100X Diaphragm valve remote control float valve



100X隔膜式遥控浮球阀是兼具多种功能的水力操作式阀门。主要安装于水池或高架水塔的进水口处,当水位达到设定的高度时,主阀由浮球导阀控制关闭进水口停止供水;当水位下降时,主阀由浮球开关控制打开进水口向水池注水,实现自动补水。液位控制精确,不受水压干扰;100X隔膜式遥控浮球阀可随水池的高度及使用空间任意位置安装,维护、调试、检查方便、密封可靠、使用寿命长。隔膜式阀门性能可靠、强度高、动作灵活,适用于450mm口径以下的管道。DN500mm以上的建议使用活塞式。

100X diaphragm type remote control float valve is a multi-functional, hydraulically operated valve. Mainly installed in the pool or elevated water tower inlet, when the water level reaches a set height, the main valve is controlled by the float guide valve to close the inlet to stop water supply: when the water level drops, the main valve is controlled by the float switch to open the inlet to the pool water injection, to achieve automatic water replenishment. Level control is accurate, not subject to water pressure interference; 100X diaphragm remote control float valve can be installed anywhere with the height of the pool and the use of space, maintenance, commissioning, inspection party to make, reliable sealing, long service life. Diaphragm type valve performance is reliable, high strength, flexible action, suitable for pipelines below 450mm caliber. piston type is recommended for DN500mm or more.

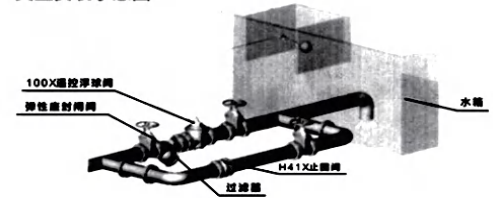
主要连接外型尺寸

Main connection dimensions

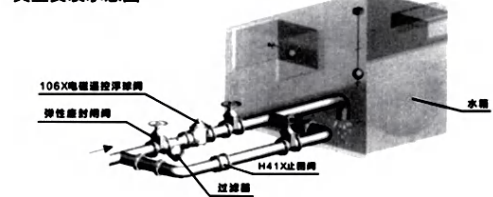
单位:mm
Unit:mm

DN	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450
L	150	160	180	200	203	216	241	292	330	356	380	400	500	560	650	730
HL	179	179	179	210	210	215	245	305	365	415	510	560	658	696	735	735
H	212	212	212	265	265	310	350	460	520	570	840	890	1030	1090	1150	1150

典型安装示意图



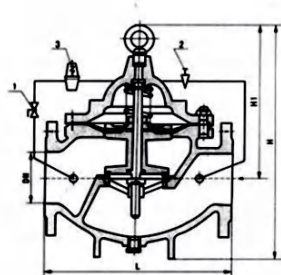
典型安装示意图



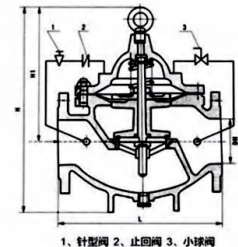
106X电磁遥控浮球阀是在100X遥控浮球阀的基础上安装了常开(常闭)型电磁阀电控装置,使该阀具有双保险作用,即使停电或电浮球失灵,也能控制水位,绝不会让水位超过规定的位置,电动浮球阀可以设置启闭水位,解决主阀频繁启闭。该阀广泛用于高层建筑、城市生活用水、消防、工矿企业的水池、水塔的进水管中。

106X electromagnetic remote control float valve is installed on the basis of 100X remote control float valve normally open (normally closed) type solenoid valve electric control device, so that the valve has a double insurance role, even if the power failure or electric float failure, but also to control the water level, never let the water level exceed the specified position, electric float valve can be set to open and close the water level, to solve the main valve frequently open and close. The valve is widely used in high-rise buildings, urban domestic water, fire-fighting, industrial and mining enterprises in the pool, water tower inlet pipeline.

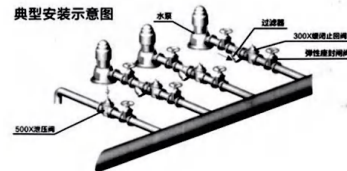
200X减压阀 200X、300缓闭式止回阀
200xReducing Valve、300X slow-closing check valve



典型安装示意图



典型安装示意图



200X减压阀,是一种利用介质自身能量来调节与控制管路压力的智能型阀门。200X减压阀用于生活给水、消防给水及其他工业给水系统、通过调节减压导阀,即可调节主阀的出口压力。出口压力不因进口压力、进口流量的变化而变化,安全可靠地将出口压力维持在设定值上,并可根据需要调节设定值以达到减压目的,该阀减压精确、性能稳定、安全可靠、安装调节方便、使用寿命长。

200X pressure reducing valve is an intelligent valve that uses the medium's own energy to regulate and control the pressure of pipeline. 200X pressure reducing valve is used for domestic water supply, fire water supply and other industrial water supply systems, by adjusting the pressure reducing pilot valve, you can adjust the outlet pressure of the main valve. The outlet pressure does not change due to the change of inlet pressure and inlet flow, and the outlet pressure is safely and reliably maintained at the set value, and the set value can be adjusted according to the need to achieve the purpose of pressure reduction, the valve is accurate, stable, safe and reliable, easy to install and adjust, and has a long service life.

300X缓闭式止回阀是安装在高层建筑给水系统以及其他给水系统的水泵出口处、防止介质倒流、水锤及水击现象的智能型阀门。该阀兼具电动阀、逆止阀和水锤消除器三种功能,可有效地提高供水系统的安全可靠性。并将缓开、速闭、缓闭消除水锤的技术原理一体化,防止开泵水锤和停泵水的产生。只需操作水泵电机启闭按钮,阀门即可按照水泵操作规程自动实现启闭,流量大、压力损失小。适用于600口径以下的阀门。

300X slow-closing check valve is an intelligent valve installed in the water supply system of high-rise buildings and other water supply systems at the outlet of the pump to prevent the backflow of media, water hammer and water hammer phenomenon. The valve has three functions of electric valve, check valve and water hammer eliminator, which can effectively improve the safety and reliability of water supply system. And the technical principle of slow opening, speed closing and slow closing to eliminate water hammer is integrated to prevent the generation of water hammer and stopping water from opening the pump. Only need to operate the pump motor opening and closing button, the valve can be opened and closed in accordance with the pump operating procedures automatically real view, large flow, small pressure loss. Applicable to valves below 600 caliber.

主要连接外型尺寸

Main connection dimensions

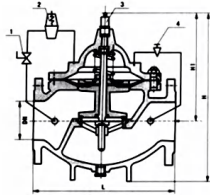
单位:mm

Unit:mm

DN	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450
L	150	160	180	200	203	216	241	380	356	356	380	400	500	560	650	730
HL	179	179	179	210	210	215	245	305	365	415	510	560	658	696	735	735
H	342	342	342	395	395	405	430	510	560	585	675	730	840	840	910	910

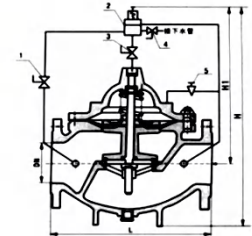
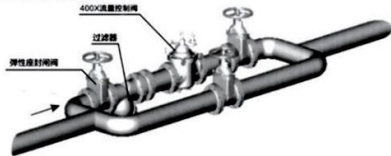
DN	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450
L	150	160	180	200	203	216	241	292	330	356	380	400	500	560	650	730
HL	106	106	106	137	137	145	178	232	286	318	413	502	600	638	677	677
H	172	172	172	225	225	270	289	375	420	570	722	769	906	1025	1027	1027

400X流量控制阀、500X泄压阀、持压阀
400X Flow control valve, 500X Pressure relief valve

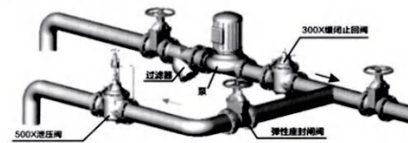


1、小球阀 2、导阀 3、流量调节器 4、针型阀

典型安装示意图



1、小球阀 2、导阀 3、小球阀 4、小球阀 5、针型阀



400X流量控制阀,是一种采用高精度先导式方式控制流量的多功能阀门。适用于配水管需控制流量和压力的管路中、保持预定流量不变,将过大流量限制在一个预定值。并将上游高压适当减压,即使主阀上游的压力发生安化,也不会影响主阀下游的流量,该阀一改常有节流阀使用孔板或纯机械地减小流域面积的原理,利用相关导阀,最大限度地减少能量在节流过程中的损失。如果紧急情况400XA流量控制阀可以完全截止流量,避免损失。控制灵敏度高,安全可靠,调试简便,使用寿命长。

The 400X flow control valve is a multifunctional valve that uses a high-precision pilot type to control flow. It is suitable for piping where the flow and pressure need to be controlled, keeping the predetermined flow constant and limiting the excessive flow to a predetermined value. And the upstream high pressure will be properly depressurized, even if the pressure upstream of the main valve, will not affect the flow downstream of the main valve, the valve - to change the throttle valve often use orifice plate or purely mechanical reduction of the basin area principle, the use of the relevant pilot valve to minimize the loss of energy in the throttling process. If the emergency 400XA flow control valve can completely cut off the flow to avoid losses. High control sensitivity, safety and reliability, easy commissioning, long service life.

500X泄压阀/持压阀主要用于消防或其他供水系统中,以防止系统超压或维持消防供水系统的压力。消防泵关闭后还可以减少水锤的冲击,也用于大型供水系统的水锤消除装置。并且阀门控制系统的进口处装有一个自清洁滤网,利用流体特性。使比重较大、直径较大的悬浮颗粒被不会进入控制系统,确保系统循环畅通无也用于大型,使阀门能安全可靠地运行。系统动作平稳,强度高,使用寿命长、适用于600口径以下的管道。

The 500X pressure relief threshold/holding valve is mainly used in fire fighting or other water supply systems to prevent system overpressure or to maintain the pressure of the fire fighting water supply system. It can also reduce the impact of water hammer after the fire pump is shut down, and is also used as a water hammer elimination device for large water supply systems. And the valve control system is equipped with a self-cleaning screen at the inlet, using fluid properties. Make the specific gravity, larger diameter suspended particles are not will not enter the control system, to ensure that the system circulation without also used for large, so that the valve can be safe and reliable operation. System action is smooth, high strength, long service life, suitable for pipelines below 600 caliber.

主要连接外型尺寸

Main connection dimensions

单位:mm

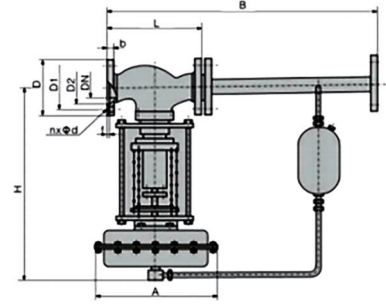
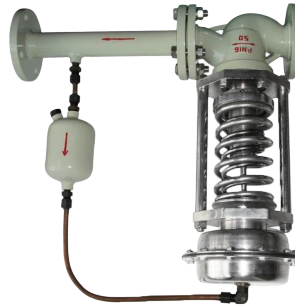
Unit:mm

DN	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450
L	150	160	180	200	203	216	241	380	356	356	380	400	500	560	650	730
HL	247	247	247	278	278	298	313	350	265	420	450	470	490	526	570	570
H	342	342	342	395	395	405	430	510	560	585	675	730	840	840	910	910

DN	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400	450
L	150	160	180	200	203	216	241	292	330	356	380	400	500	560	650	730
HL	463	463	463	516	516	520	537	596	653	709	805	855	953	990	1030	1030
H	557	557	557	310	325	625	642	750	808	864	1135	1185	1325	1385	1445	1445

ZYZZY 自力式压力调节阀
ZYZZY Self-operated pressure regulating valve

ZYZZS自力式压力调节阀是不需要任何外加能源,利用被调介质自身能量而实现自动调节阀的执行器产品。该产品最大特点,能在无电、无气的场所工作,同时又节约了能源,压力设定值在运行中可随意调整。采用快开流量特征,动作灵敏、密封性能好,因而它广泛应用于石油、化工、电力、冶金、食品、轻纺、机械制造与居民建筑楼群等各种工业设备中的各种气体、液体及蒸汽介质减压、稳压(用于阀后调节),或泄压、持压(用于阀前调节)的自动控制。附设冷凝器可在 $\leq 350^{\circ}\text{C}$ 温度下使用。



ZYZZS self-operated pressure regulating valve is an actuator product that does not require any external energy and uses the regulated medium's own energy to achieve automatic valve adjustment. The biggest feature of this product is that it can work in places without electricity and gas, while saving energy, and the pressure setting value can be adjusted at will during operation. Fast-opening flow characteristics, sensitive action, good sealing performance, so it is widely used in petroleum, chemical, electric power, metallurgy, food, light textile, machinery manufacturing and residential building complexes and other industrial equipment of various gases, liquids and steam medium pressure reduction, pressure stabilization (for post-valve regulation), or pressure relief, pressure holding (for pre-valve regulation) of automatic control. With a condenser can be used at a temperature of $\leq 350^{\circ}\text{C}$.

主要技术参数和性能指标
Main technical parameters and performance indicators

零件名称 (Part Name)	材料 (Material)
阀体 (Valve body)	ZG230-450, ZG1Cr18Ni9Ti, ZGCr18Ni12Mo2Ti
阀芯 (Valve spool)	1Cr18Ni9Ti, Cr18Ni12Mo2Ti
阀座 (Valve seat)	1Cr18Ni9Ti, Cr18Ni12Mo2Ti
阀杆 (Valve stem)	1Cr18Ni9Ti, Cr18Ni12Mo2Ti
橡胶膜片 (Rubber Diaphragm)	丁腈、乙丙、氟、耐油橡胶 (Nitrile, Ethylene, Fluorine, Oil resistant rubber)
膜盖 (Membrane cover)	A3, A4钢涂四氟乙烯 (A3, A4 steel coated with teflon)
填料 (Packing)	聚四氟乙烯、柔性石墨 (Polytetrafluoroethylene, Flexible graphite)

主要技术参数和性能指标
Main technical parameters and performance indicator

公称通径DN(mm) Nominal flow diameter DN(mm)	20	25	32	40	50	65	80	100	125	150	200	250	300		
额定流量系数Kv Rated flow coefficient Kv	7	11	20	30	48	75	120	190	300	480	760	1100	1750		
额定行程 (mm) Rated stroke(mm)	8		10		14		20		25		40		50	60	70
公称压力PN(MPa) Nominal pressure PN(Mpa)	1.6、4.0、6.4														
压力调节范围(Kpa) Pressure adjustment range(Kpa)	10-60、20-120、200-500、450-1000、800-1600、1000-2200、2000-2800														
流量特性 Flow rate characteristics	快开Fast-opening														
调节精度 (%) Adjustment accuracy(%)	± 5														
使用介质 Medium of use	热水、蒸汽、各种气体及低粘度介质 Hot water steam、various gases and low viscosity media														
使用温度 $^{\circ}\text{C}$ Operating temperature	≤ 80 、 ≤ 350														
允许泄漏量 Allowable leakage	单座: ≤ 10 的负四次方的额定容量(IV级);双座、套筒 $\leq 5 \times 10$ 的负三次方的额定容量(II级) Single-seated: $<10^{-4}$ valve rated capacity (Class IV) Double-seated, sleeve simple: $<5 \times 10^{-3}$ valve rated capacity (Class II)														
硬密封 hard seal (ml/h)	0.15														
软密封 soft seal (ml/h)	0.30														
最大 MAX	0.45														
最小 MIN	0.60														
	0.90														
	1.7														
	4.0														
	6.75														
	11.10														
	11.60														
减压比 Pressure reduction ratio	10														
	1.25														

外型尺寸及重量
External dimensions and weight

公称通径DN Nominal diameter DN	20	25	32	40	50	65	80	100	125	150	200	250	300		
法兰接管尺寸B Flange receiver size (B)	383		512		603		862		1023		1380		1800	2000	2200
法兰端面距L Flange end distance (L)	150	160	180	200	230	290	310	350	400	480	600	730	850		
压力调节范围 Pressure adjustment range (Kpa)	15-140	H	475	520	540	710	780	840	840	915	940	1000			
		A	280				308								
	130-300	H	455	500	520	690	760	800	870	880	900	950			
		A				230									
	280-500	H	450	490	510	680	750	790	860	870	890	940			
		A		176		194				280					
	480-1000	H	445	480		670	740	780	850	860	880	930			
		A		176		194				280					
	600-1500	H	445	570	600	820	890	950	1000	1100	1200				
		A	85			96									
	1000-2500	H	445	570	600	820	290	950	1000	1100	1200				
		A	85			96									
重量KG	26		37	42	72	90	114	130	114	180	200	250			
导压管接头螺纹 Pressure guide fitting thread	M16X1.5														

ZYV23001/ZYV23101 自力式阀后压力调节阀
ZYV23001/ZYV23101 Self-operated post-valve pressure regulating valve

无需外来能源的节能型控制阀用于气体、液体和蒸汽温度 $\leq 350^{\circ}\text{C}$ 等介质的阀后压力控制装置。
Energy-saving control valve without external energy for gas, liquid and steam temperature $\leq 350^{\circ}\text{C}$ and other media after the valve pressure control device.

产品特点

Product Features

- 1、维护量小, 介质直接控制, 无需外来能源的节能控制阀
Energy-saving control valves with low maintenance and direct media control without external energy
- 2、不锈钢波纹管 (1) 压力平衡式, 不平衡力小, 灵敏度高
Stainless steel bellows (1) pressure balance type, small unbalance force, high sensitivity
- 3、支持内取压和外取压
Support internal and external pressure extraction
- 4、设定点范围宽, 可通过调节螺母方便的调整设定点
Wide range of set points can be easily adjusted by adjusting nuts
- 5、执行器与弹簧可随意组合, 从而实现多种调节范围
Actuator and spring can be randomly matched, so as to achieve a variety of adjustment range
- 6、对于高密封要求, 使用软密封阀芯
For high seal requirements, use a soft seal spool
- 7、标准低噪音阀芯---对于更高的降噪要求, 可使用带减
Standard low-noise spool - for higher noise reduction requirements, use a spool with reduced noise.
- 8、噪器的特殊型号
Special models of noisemakers
- 9、采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制
Adopt standard modular design, high level of trivrialization, through the combination of parts, can be a number of combination control
(1) $\text{DN} \geq 150$ 时, 采用膜片平衡式
(1) When $\text{DN} \geq 150$, use diaphragm balance type

执行机构 Actuator

膜盒 (Membrane box)

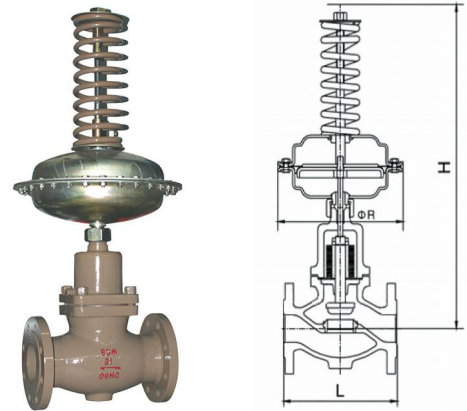
上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供七种压力设定范围
Available in seven pressure setting ranges

特殊类型 (Special Types)

带泄露管接头或双膜片断裂指示装置 With leak fitting or double diaphragm breakage indicator
对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
No lubricants and greases for working environments with special cleanliness requirements
使用气体和蒸汽介质时, 如要求特别低的噪音时, 应使用减噪器的阀门
When using gas and steam media, valves with noise reducers should be used if particularly low noise is required
对于有特殊防腐要求的, 可提供PTFE膜片
For special anti-corrosion requirements, PTFE diaphragms are available.



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰RFa(flange RF)
材质 Material	WCB\CF8\CF8M

阀盖

内装压力平衡机构, 由以下零件组成:
DN15-125由316波纹管+304平衡弹簧组合而成。
DN150-250由FKM平衡膜片+304平衡弹簧组合而成。
通过“连接螺母”将调节机构与执行机构组合在一起, 拆装十分便捷。
冷却罐内充满冷媒防止膜片老化 ($\geq 150^{\circ}\text{C}$ 时)
阀体加长件为高温保护装置 ($\geq 150^{\circ}\text{C}$ 时) 内充满冷媒

Valve cover

The pressure balancing mechanism is installed inside the valve cover and consists of the following parts.
DN15-125 is made of 316 bellows + 304 balance spring.
DN150-250 is made of FKM balance diaphragm + 304 balance spring.
The regulator and actuator are combined by means of a "coupling nut", which makes disassembly and assembly very easy.
Cooling tank is filled with refrigerant to prevent diaphragm aging ($\geq 150^{\circ}\text{C}$)
The valve body extension is a high temperature protection device ($\geq 150^{\circ}\text{C}$) filled with cold coal.

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23001	15-250	K230	ZA3	/	$\leq 150^{\circ}\text{C}$	硬密封 Hard Seal
K23101	15-250	K231	ZA3	/	$\leq 150^{\circ}\text{C}$	软密封 Soft Seal
K23201	15-125	K232	ZA3	冷却罐 Cooling tank	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA3	冷却罐+加长件 Cooling tank + extensions	$\leq 300^{\circ}\text{C}$	硬密封 Hard Seal
	15-125	K232	ZA3	冷却罐+散热片 Cooling tank + heat sink	$\leq 350^{\circ}\text{C}$	硬密封 Hard Seal

ZYV23001/ZYV23101 自力式阀后压力调节阀
ZYV23001/ZYV23101 Self-operated post-valve pressure regulating valve

K230/K231/K232 阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值 (m³/h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值、根据VDMA2442标准	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差 ΔP _{max} .PN16(Mpa)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
最大压差 ΔP _{max} .PN16(Mpa)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	4×10 ⁻⁴ × 阀额定容量 (L/H)												
硬密封 Hard Seal	10气泡/分(10 bubbles/min)						20气泡/分(20 bubbles/min)				40气泡/分(40 bubbles/min)		
软密封 Soft Seal													
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe, ferrule type fittings)												

小流量调节机构Cv值
Small flow regulator Cv value

公称直径DN (mm) Nominal diameter (mm)	15至32												
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5			
阀座 (mm) Valve seat (mm)	6						8		11		14		
阀芯形式 Valve spool form	硬密封Hard seal												
泄露量等级 Leakage level	GB4213-92 V级												

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm²) Effective area of the actuator (cm²)			32	80	250	630
阀后压力控制范围 (Mpa) Valve front pressure control range (Mpa)	红色弹簧 Red spring	0.3-1.2		0.1-0.6	0.015-0.15	
	黄色弹簧 Yellow spring			0.05-0.3	0.01-0.07	0.005-0.035
	黑色弹簧 Black spring	0.8-1.6				
适用公称直径范围DN Applicable nominal diameter	15~125					
保证压力阀正常工作的最小差ΔP _{min} (Mpa) Minimum differential pressure to ensure proper operation of the pressure valve ΔP _{min} (Mpa)			≥0.05	≥0.04	≥0.01	≥0.15
允许上下膜室之间的最大压差ΔP _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber ΔP _{min} (Mpa)			2.0	1.25	0.4	0.15
设定值偏差 Set deviation value	±8%					
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe, ferrule type fittings)					

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	150
A 32cm² φ 172mm	H mm	647	647	673	673	675	67.5	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 80cm² φ 172mm	H mm	642	642	668	668	670	670	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 250cm² φ 263mm	H mm	682	647	708	708	710	710	745	745	850	850	765	795	842
	kg	19.2	13.7	22.7	26	27	30	42	46	73	83	93	153	233
A 630cm² φ 380mm	H mm	732	647	758	758	760	760	795	795	900	900	815	845	892
	kg	34.2	34.7	37.7	41	42	45	57	61	88	98	108	168	248
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

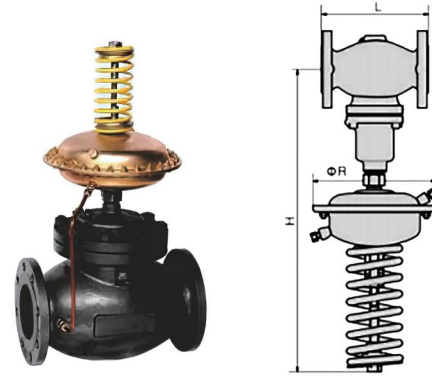
	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上。(适用于有效面积为630CM2的执行器) Connected with φ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	FSQ-I型散热器、FSQ-I型散热器	适用于DN15-125.当介质温度在200°C-350°C之间时,同上。(采用波纹管密封,主要用于热电厂) Suitable for DN15-250. when the medium temperature is between 150°C- 350°C.
	阀体加长件FJC	适用于DN150-250.当介质温度在150°C-200°C之间时。 Suitable for DN15-250. when the medium temperature is between 150°C- 200°C.
	减噪器FJZ	适用于DN15-125,当噪音超过允许范围时,使用此件。(一般多用于蒸汽阀上) Suitable for DN15-250.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

ZYV23002/ZYV23102 自力式阀前压力调节阀
ZYV23002/ZYV23102 Self-operated post-valve pressure regulating valve

无需外来能源的节能型控制阀用于气体、液体和蒸汽温度 $\leq 200^{\circ}\text{C}$ 等介质的阀后压力控制装置。
Energy-saving control valve without external energy for gas, liquid and steam temperature $\leq 200^{\circ}\text{C}$ and other media after the valve pressure control device.

产品特点
Product Features

- 1、维护量小, 介质直接控制, 无需外来能源的节能控制阀。
Energy-saving control valves with low maintenance and direct media control without external energy
 - 2、不锈钢波纹管 (1) 压力平衡式, 不平衡力小, 灵敏度高
Stainless steel bellows (1) pressure balance type, small unbalance force, high sensitivity
 - 3、支持内取压和外取压
Support internal and external pressure extraction
 - 4、设定点范围宽, 可通过调节螺母方便的调整设定点
Wide range of set points can be easily adjusted by adjusting nuts
 - 5、执行器与弹簧可随意组合, 从而实现多种调节范围
Actuator and spring can be randomly matched, so as to achieve a variety of adjustment range
 - 6、对于高密封要求, 使用软密封阀芯
For high seal requirements, use a soft seal spool
 - 7、标准低噪音阀芯---对于更高的降噪要求, 可使用带减
Standard low-noise spool - for higher noise reduction requirements, use a spool with reduced noise.
 - 8、噪器的特殊型号
Special models of noisemakers
 - 9、采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
Adopt standard modular design, high level of trivrialization, through the combination of parts, can be a number of combination control
- (1) DN ≥ 150 时, 采用膜片平衡式。
(1) When DN ≥ 150 , use diaphragm balance type



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰 RFa(flange RF)
材质 Material	WCB\CF8\CF8M

执行机构 Actuator

膜盒 (Membrane box)

上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供七种压力设定范围
Available in seven pressure setting ranges

特殊类型 (Special Types)

带泄露管接头或双膜片断裂指示装置 With leak fitting or double diaphragm breakage indicator
对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
No lubricants and greases for working environments with special cleanliness requirements
使用气体和蒸汽介质时, 如要求特别低的噪音时, 应使用减噪器的阀门。
When using gas and steam media, valves with noise reducers should be used if particularly low noise is required
对于有特殊防腐要求的, 可提供PTFE膜片。
For special anti-corrosion requirements, PTFE diaphragms are available.

阀盖

内装压力平衡机构, 由以下零件组成:
DN15-125由316波纹管+304平衡弹簧组合而成。
DN150-250由FKM平衡膜片+304平衡弹簧组合而成。
通过“连接螺母”将调节机构与执行机构组合在一起, 拆装十分便捷。
冷却罐内充满冷媒防止膜片老化 ($\geq 150^{\circ}\text{C}$ 时)
阀体加长件为高温保护装置 ($\geq 150^{\circ}\text{C}$ 时) 内充满冷媒

Valve cover

The pressure balancing mechanism is installed inside the valve cover and consists of the following parts.
DN15-125 is made of 316 bellows + 304 balance spring.
DN150-250 is made of FKM balance diaphragm + 304 balance spring.
The regulator and actuator are combined by means of a "coupling nut", which makes disassembly and assembly very easy.
Cooling tank is filled with refrigerant to prevent diaphragm aging ($\geq 150^{\circ}\text{C}$)
The valve body extension is a high temperature protection device ($\geq 150^{\circ}\text{C}$) filled with cold coal.

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23001	15-250	K230	ZA4	/	$\leq 150^{\circ}\text{C}$	硬密封 Hard Seal
K23101	15-250	K231	ZA4	/	$\leq 150^{\circ}\text{C}$	软密封 Soft Seal
K23201	15-125	K232	ZA4	冷却罐 Cooling tank	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+加长件 Cooling tank + extensions	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal

ZYV23004/ZYV23104 自力式差压调节阀
ZYV23004/ZYV23104 Self-operated differential pressure control valve

K230/K231/K232 阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN16 (Mpa)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN40 (Mpa)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	4×10 ⁻⁴ × 阀额定容量(L/H)												
硬密封 Hard Seal	10气泡/分(10 bubbles/min)						20气泡/分(20 bubbles/min)				40气泡/分(40 bubbles/min)		
软密封 Soft Seal													
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)												

小流量调节机构Cv值
Small flow regulator Cv value

公称直径DN (mm) Nominal diameter (mm)	15至32													
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5				
阀座 (mm) Valve seat (mm)	6						8		11		14			
阀芯形式 Valve spool form	硬密封Hrad seal													
泄露等级 Leakage level	GB4213-92 V级													

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)	32	80	250	630
阀后压力控制范围 (Mpa) Valve front pressure control range (Mpa)	红色弹簧 Red spring	0.3-1.2	0.1-0.6	0.015-0.15
	黄色弹簧 Yellow spring		0.05-0.3	0.01-0.07
	黑色弹簧 Black spring	1.0-1.6		0.005-0.035
适用公称通径范围DN Applicable nominal diameter	15~125		15-250	
保证压力阀正常工作的最小差△P _{min} (Mpa) Minimum differential pressure to ensure proper operation of the pressure valve △P _{min} (Mpa)	≥0.05	≥0.04	≥0.01	≥0.15
允许上下膜室之间的最大压差△P _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{max} (Mpa)	2.0	1.25	0.4	0.15
设定值偏差 Set deviation value	±8%			
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)			

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
A 32cm ² φ 172mm	H mm	647	647	668	668	670	670	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 80cm ² φ 172mm	H mm	642	642	668	668	670	670	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 250cm ² φ 263mm	H mm	682	682	708	708	710	710	710	745	850	850	765	795	842
	kg	19.2	13.7	22.7	26	27	30	42	46	73	83	93	153	233
A 630cm ² φ 380mm	H mm	732	647	758	758	760	760	795	795	900	900	815	845	892
	kg	34.2	34.7	37.7	41	42	45	57	61	88	98	108	168	248
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上,(适用于有效面积为630CM2的执行器) Connected withφ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	阀体加长件FJC	适用于DN150-250,当介质温度在150°C-200°C之间时。 Suitable for DN15-250, when the medium temperature is between 150°C- 200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

注:1、法兰标准:正常为DIN标准(德国)也可为用户提供下列法兰标准的产品,但订货时应特殊注明。1、JB(中国),2、ANSI(美国)只可提供ANSI150、300两种,3、JIS(日本)
2、表中H为不包括附件的整机高度。加附件时,整机高度为表中的高度加上附件的有效高度。
附件有效高度尺寸:FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm
Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1, JB (China), 2, ANSI (United States), only ANSI150, 300 two kinds can be provided, 3, JIS (Japan) 2, H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

ZYV23003/ZYV23103自力式差压调节阀
ZYV23003/ZYV2310 Self-operated differential pressure control valve

无需外来能源的节能型控制阀用于非腐蚀性液体、气体温度 $\leq 200^{\circ}\text{C}$ 的阀前差压控制装置,当差压升高时阀门关闭。

Energy-saving control valves without external energy are used for differential pressure control devices in front of valves for non-corrosive liquids and gases with temperatures $\leq 200^{\circ}\text{C}$. The valves close when the differential pressure rises.

产品特点
Product Features

- 1、维护量小, 介质直接控制, 无需外来能源的节能控制阀。
Energy-saving control valves with low maintenance and direct media control without external energy
- 2、不锈钢波纹管 (1) 压力平衡式, 不平衡力小, 灵敏度高
Stainless steel bellows (1) pressure balance type, small unbalance force, high sensitivity
- 3、支持内取压和外取压
Support internal and external pressure extraction
- 4、设定点范围宽, 可通过调节螺母方便的调整设定点
Wide range of set points can be easily adjusted by adjusting nuts
- 5、执行器与弹簧可随意组合, 从而实现多种调节范围
Actuator and spring can be randomly matched, so as to achieve a variety of adjustment range
- 6、对于高密封要求, 使用软密封阀芯
For high seal requirements, use a soft seal spool
- 7、标准低噪音阀芯---对于更高的降噪要求, 可使用带减
Standard low-noise spool - for higher noise reduction requirements, use a spool with reduced noise.
- 8、噪器的特殊型号
Special models of noisemakers
- 9、采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
Adopt standard modular design, high level of trivrialization, through the combination of parts, can be a number of combination control
(1) $\text{DN} \geq 150$ 时, 采用膜片平衡式。
(1) When $\text{DN} \geq 150$, use diaphragm balance type

执行机构 Actuator

膜盒 (Membrane box)

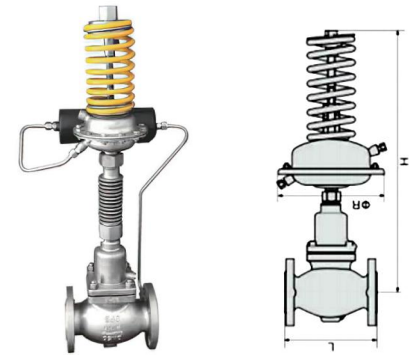
上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供五种压力设定范围
Available in five pressure setting ranges

特殊类型 (Special Types)

带泄露管接头或双膜片断裂指示装置对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
For working environment with special cleaning requirements, no lubricants and greases are used



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰RFa(flange RF)
材质 Material	WCB\CF8\CF8M

阀盖

内装压力平衡机构, 由以下零件组成:
DN15~125由316波纹管+304平衡弹簧组合而成。
DN150~250由FKM平衡膜片+304平衡弹簧组合而成。
配冷却罐 (140-200 $^{\circ}\text{C}$)

Valve cover

The pressure balancing mechanism is installed inside the valve cover and consists of the following parts.
DN15~125 is made of 316 bellows + 304 balance spring.
DN150~250 by the combination of FKM balance diaphragm + 304 balance spring.
Equipped with cooling tank (140-200 $^{\circ}\text{C}$)

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23003	15-250	K230	ZA4	/	$\leq 150^{\circ}\text{C}$	硬密封 Hard Seal
K23103	15-250	K231	ZA4	/	$\leq 150^{\circ}\text{C}$	软密封 Soft Seal
K23203	15-125	K232	ZA4	冷却罐 Cooling tank	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+加长件 Cooling tank + extensions	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal

ZYV23003/ZYV23103自力式差压调节阀
ZYV23003/ZYV23103 Self-operated differential pressure control valve

K230/K231/K232阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN16 (Mpa)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN40 (Mpa)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	硬密封 Hard Seal	4×10 ⁻⁴ × 阀额定容量(L/H)											
	软密封 Soft	10气泡/分(10 bubbles/min)				20气泡/分(20 bubbles/min)				40气泡/分(40 bubbles/min)			
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)												

小流量调节机构Cv值
Small flow regulator Cv value

公称直径DN (mm) Nominal diameter (mm)	15至32												
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5			
阀座 (mm) Valve seat (mm)	6				8				11				14
阀芯形式 Valve spool form	硬密封Hrad seal												
泄露量等级 Leakage level	GB4213-92 V级												

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)	32	80	250	630
阀后压力控制范围 (Mpa) Valve front pressure control range (Mpa)	红色弹簧 Red spring	0.1-0.6	0.015-0.15	
	黄色弹簧 Yellow spring	0.05-0.3	0.01-0.07	0.005-0.035
适用公称直径范围DN Applicable nominal diameter	15~125		15-250	
保证压力阀正常工作的最小差△P _{min} (Mpa) Minimum differential pressure to ensure proper operation of the pressure valve △P _{min} (Mpa)	≥0.04		≥0.01	≥0.005
允许上下膜室之间的最大压差△P _{max} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{max} (Mpa)	1.25		0.4	0.15
设定值偏差 Set deviation value	±8%			
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)			

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
A 80cm ² φ 172mm	H mm	642	642	668	668	670	670	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 250cm ² φ 263mm	H mm	682	682	708	708	710	710	710	745	850	850	765	795	842
	kg	19.2	13.7	22.7	26	27	30	42	46	73	83	93	153	233
A 630cm ² φ 380mm	H mm	732	647	758	758	760	760	795	795	900	900	815	845	892
	kg	34.2	34.7	37.7	41	42	45	57	61	88	98	108	168	248
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上。(适用于有效面积为630CM ² 的执行器) Connected with φ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	阀体加长件FJC	适用于DN150-250,当介质温度在150°C-200°C之间时。 Suitable for DN150-250, when the medium temperature is between 150°C- 200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

注:1、法兰标准:正常为DIN标准(德国)也可为用户提供下列法兰标准的产品,但订货时应特殊注明。1、JB(中国),2、ANSI(美国)只可提供ANSI150、300两种,3、JIS(日本)
2、表中H为不包括附件的整机高度。加附件时,整机高度为表中的高度加上附件的有效高度。
附件有效高度尺寸:FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm
Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1、JB (China), 2、ANSI (United States), only ANSI150, 300 two kinds can be provided, 3、JIS (Japan) 2. H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

ZYV23004/ZYV23104自力式差压调节阀
ZYV23004/ZYV23104 Self-operated differential pressure control valve

无需外来能源的节能型控制阀用于非腐蚀性液体、气体温度 $\leq 200^{\circ}\text{C}$ 的阀前差压控制装置,当差压升高时阀门关闭。

Energy-saving control valves without external energy are used for differential pressure control devices in front of valves for non-corrosive liquids and gases with temperatures $\leq 200^{\circ}\text{C}$. The valves close when the differential pressure rises.

产品特点
Product Features

- 1、维护量小, 介质直接控制, 无需外来能源的节能控制阀。
Energy-saving control valves with low maintenance and direct media control without external energy
 - 2、不锈钢波纹管 (1) 压力平衡式, 不平衡力小, 灵敏度高
Stainless steel bellows (1) pressure balance type, small unbalance force, high sensitivity
 - 3、支持内取压和外取压
Support internal and external pressure extraction
 - 4、设定点范围宽, 可通过调节螺母方便的调整设定点
Wide range of set points can be easily adjusted by adjusting nuts
 - 5、执行器与弹簧可随意组合, 从而实现多种调节范围
Actuator and spring can be randomly matched, so as to achieve a variety of adjustment range
 - 6、对于高密封要求, 使用软密封阀芯
For high seal requirements, use a soft seal spool
 - 7、标准低噪音阀芯---对于更高的降噪要求, 可使用带减
Standard low-noise spool - for higher noise reduction requirements, use a spool with reduced noise.
 - 8、噪器的特殊型号
Special models of noisemakers
 - 9、采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
Adopt standard modular design, high level of trivrialization, through the combination of parts, can be a number of combination control
- (1) DN ≥ 150 时, 采用膜片平衡式。
(1) When DN ≥ 150 , use diaphragm balance type

执行机构 Actuator

膜盒 (Membrane box)

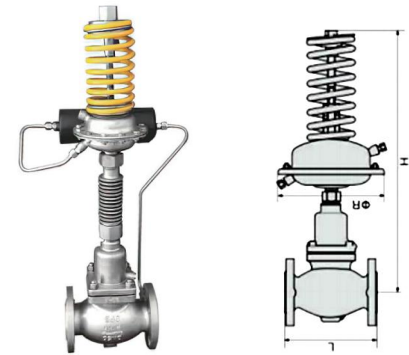
上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供五种压力设定范围
Available in five pressure setting ranges

特殊类型 (Special Types)

带泄露管接头或双膜片断裂指示装置对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
For working environment with special cleaning requirements, no lubricants and greases are used



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰 RFa (flange RF)
材质 Material	WCB\CF8\CF8M

阀盖

内装压力平衡机构, 由以下零件组成:
DN15~125由316波纹管+304平衡弹簧组合而成。
DN150~250由FKM平衡膜片+304平衡弹簧组合而成。
配冷却罐 (140-200 $^{\circ}\text{C}$)

Valve cover

The pressure balancing mechanism is installed inside the valve cover and consists of the following parts.
DN15~125 is made of 316 bellows + 304 balance spring.
DN150~250 by the combination of FKM balance diaphragm + 304 balance spring.
Equipped with cooling tank (140-200 $^{\circ}\text{C}$)

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23004	15-250	K230	ZA4	/	$\leq 150^{\circ}\text{C}$	硬密封 Hard Seal
K23104	15-250	K231	ZA4	/	$\leq 150^{\circ}\text{C}$	软密封 Soft Seal
K23204	15-125	K232	ZA4	冷却罐 Cooling tank	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+加长件 Cooling tank + extensions	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal

ZYV23004/ZYV23104自力式差压调节阀
ZYV23004/ZYV23104 Self-operated differential pressure control valve

K230/K231/K232阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN16 (Mpa)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
最大压差△P _{max} .PN40(Mpa) Maximum differential pressure △P _{max} .PN40 (Mpa)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	硬密封 Hard Seal	4×10-4×阀额定容量(L/H)											
	软密封 Soft	10气泡/分(10 bubbles/min)				20气泡/分(20 bubbles/min)				40气泡/分(40 bubbles/min)			
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)												

小流量调节机构Cv值
Small flow regulator Cv value

公称直径DN (mm) Nominal diameter (mm)	15至32												
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5			
阀座 (mm) Valve seat (mm)	6				8				11		14		
阀芯形式 Valve spool form	硬密封Hrad seal												
泄露量等级 Leakage level	GB4213-92 V级												

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)			80	250	630
阀后压力控制范围 (Mpa) Valve front pressure control range (Mpa)	红色弹簧 Red spring		0.1-0.6	0.015-0.15	
	黄色弹簧 Yellow spring		0.05-0.3	0.01-0.07	0.005-0.035
适用公称直径范围DN Applicable nominal diameter			15~125		15-250
保证压力阀正常工作的最小差△P _{min} (Mpa) Minimum differential pressure to ensure proper operation of the pressure valve △P _{min} (Mpa)			≥0.04	≥0.01	≥0.005
允许上下膜室之间的最大压差△P _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{min} (Mpa)			1.25	0.4	0.15
设定值偏差 Set deviation value			±8%		
控制管线/接头 Control lines/connectors	钢管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)				

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
A 80cm ² φ 172mm	H mm	647	647	673	673	675	675	710	710	815	815	/	/	/
	kg	13.7	14.2	17.2	20.5	21.5	24.5	36.5	40.5	67.5	77.5	/	/	/
A 250cm ² φ 263mm	H mm	652	652	678	678	680	680	715	715	820	820	735	765	812
	kg	19.2	13.7	22.7	26	27	30	42	46	73	83	93	153	233
A 630cm ² φ 380mm	H mm	732	647	758	758	760	760	795	795	900	900	815	845	892
	kg	34.2	34.7	37.7	41	42	45	57	61	88	98	108	168	248
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上。(适用于有效面积为630CM2的执行器) Connected with φ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	阀体加长件FJC	适用于DN150-250,当介质温度在150°C-200°C之间时。 Suitable for DN150-250, when the medium temperature is between 150°C- 200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

注:1、法兰标准:正常为DIN标准(德国)也可为用户提供下列法兰标准的产品,但订货时应特殊注明。1、JB(中国),2、ANSI(美国)只可提供ANSI150、300两种,3、JIS(日本)
2、表中H为不包括附件的整机高度。加附件时,整机高度为表中的高度加上附件的有效高度。
附件有效高度尺寸:FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm
Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1、JB (China), 2、ANSI (United States), only ANSI150, 300 two kinds can be provided, 3、JIS (Japan) 2. H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

ZYV23012/ZYV23112指挥器自力式调节阀
ZYV23012/ZYV23112 Commander self-operated regulating valve

无需外来能源的节能型控制阀用于非腐蚀性液体、气体和蒸汽温度 $\leq 300^{\circ}\text{C}$ 等介质的阀后稳压控制系统。

Energy-saving control valves without external energy are used for post-valve pressure stabilization control systems for non-corrosive liquids, gases and steam with temperatures $\leq 300^{\circ}\text{C}$.

产品特点
Product Features

1. 维护量小, 介质直接控制, 无需外来能源的节能控制阀
 2. 不锈钢波纹管(1)压力平衡式, 不平衡力小, 灵敏度高
 3. 采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
(1) DN ≥ 150 时, 采用膜片平衡式。
1. Energy-saving control valve with low maintenance and direct control of medium without external energy
 2. Stainless steel bellows(1) pressure balance type, small unbalance force, high sensitivity
 3. Adopt standard modular design, high level of trivialization, through the combination of parts, a number of combination control can be carried out.
(1)When DN ≥ 150 , the diaphragm balance type is used.

执行机构 Actuator

膜盒 (Membrane box)

上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供五种压力设定范围
Available in five pressure setting ranges

特殊类型(Special Types)

带泄露管接头或双膜片断裂指示装置 With leak fitting or double diaphragm breakage indicator
对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂

指挥器
Commander

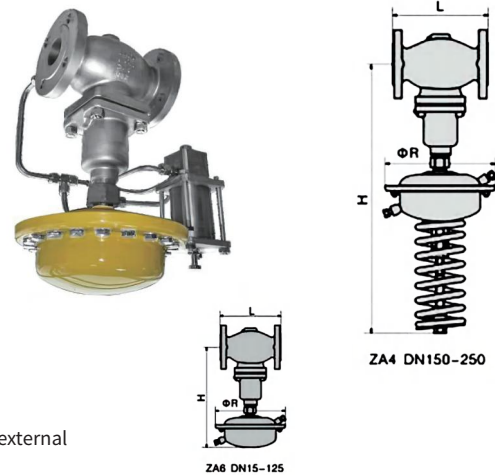
壳体 (shell) 内件 (Inner Parts)
气动座(Pneumatic seat):2Cr13 阀芯Valve spool : 304+F4
缸体 (Cylinder block): 2Cr13 密封圈Seals : FKM
法兰(Flange): 2Cr13 阀杆Valve stem : 2Cr13

压力平衡元件
Pressure balancing element

波纹管 (Bellows) : 316
平衡弹簧 (Balance spring) : 60Si2Mn
可提供五种压力设定范围, 通过调节螺钉和针阀来设定阀后压力
Available in five pressure setting ranges, Set by adjusting screw and needle valve
Set post-valve pressure

产品组合与允许工作温度
Product combinations and allowable operating temperatures

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23012	15-250	K230	ZA4/ZA4	/	$\leq 150^{\circ}\text{C}$	硬密封 Hard Seal
K23112	15-250	K231	ZA4/ZA4	/	$\leq 150^{\circ}\text{C}$	软密封 Soft Seal
K23212	15-125	K232	ZA4	冷却罐 Cooling tank	$\leq 200^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+散热片 Cooling tank + heat sink	$\leq 300^{\circ}\text{C}$	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+加长件 Cooling tank + extensions	$\leq 300^{\circ}\text{C}$	硬密封 Hard Seal



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰RFa(flange RF)
材质 Material	WCB\CF8\CF8M

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

阀盖
Valve cover

内装压力平衡机构, 由以下零件组成; DN15~125由316波纹管+304平衡弹簧组合而成。DN150~250由FKM平衡膜片+304平衡弹簧组合而成。通过"连接螺母"将调节机构与执行机构组合在一起, 拆装十分便捷。

The pressure balancing mechanism is installed inside and consists of the following parts; DN15~125 by the combination of 316 bellows + 304 balance spring. DN150~250 is made of FKM balancing diaphragm + 304 balancing spring. The regulator and actuator are combined by means of a "coupling nut", which makes disassembly and assembly very easy.

ZYV23012/ZYV23112指挥器自力式调节阀
ZYV23012/ZYV23112 Commander self-operated regulating valve

K230/K231/K232 阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差△P _{max} (Mpa) Maximum differential pressure△P _{max} (Mpa)	PN16	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
	PN40	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN40 (Mpa)	0.08										0.1		
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	K230	4×10-4× 阀额定容量(L/H)											
	K231	10气泡/分(10 bubbles/min)					20气泡/分(20 bubbles/min)				40气泡/分(40 bubbles/min)		
设定值偏差 Set deviation value	≤±4%												

小流量调节机构Cv值
Small flow regulator Cv value

公称通径DN (mm) Nominal diameter (mm)	15至32												
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5			
阀座 (mm) Valve seat (mm)	6					8			11		14		
阀芯形式 Valve spool form	硬密封Hrad												
泄露等级 Leakage level	GB4213-92 V级												

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)	250	
压力设定范围 (Mpa) Pressure setting range (Mpa)	0.01-0.12、0.08-0.25、0.02-0.5、0.45-1.0、0.6-2.0	
允许上下膜室之间的最大压差△P _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{max} (Mpa)	0.4	
控制管线/接头 Control lines/connectors	铜管或钢管φ10×1 (mm)卡套式管接头1/4"(Copeper or steel pipe, ferrule type fittings)	
控制精度 Control accuracy	±4%	

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
ZA6 φ 263mm	H mm	372	372	398	398	400	400	435	435	435	540	/	/	/
	kg	15.2	15.2	15.2	22	23	26	38	38	69	79	/	/	/
ZA4 φ 263mm	H mm											796	824	874
	kg											93	153	233
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上。(适用于有效面积为630CM ² 的执行器) Connected with φ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	FSQ-I型散热片、FSQ-I型散热片	适用于DN15-125.当介质温度在200°C-350°C之间时。同上。(采用波纹管密封,主要用于热电厂) Suitable for DN15-250. when the medium temperature is between 150°C-350°C.
	阀体加长件FJC	适用于DN150-250.当介质温度在150°C-200°C之间时。 Suitable for DN150-250. when the medium temperature is between 150°C-200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

注：1、法兰标准：正常为DIN标准(德国)也可为用户提供下列法兰标准的产品,但订货时应特殊注明。1、JB(中国),2、ANSI(美国)只可提供ANSI150、300两种,3、JIS(日本)2、表中H为不包括附件的整机高度。加附件时,整机高度为表中的高度加上附件的有效高度。

附件有效高度尺寸：FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1. JB (China), 2. ANSI (United States), only ANSI150, 300 two kinds can be provided, 3. JIS (Japan) 2. H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

ZYV23013/ZYV23113指挥器自力式调节阀
ZYV23013/ZYV23113 Commander self-operated regulating valve

无需外来能源的节能型控制阀用于非腐蚀性气体、液体和蒸汽温度≤300℃等介质的阀前压力控制装置

Energy-saving control valve without external energy for non-corrosive gases, liquids and steam temperature ≤ 300 °C and other media before the valve pressure control device.

产品特点
Product Features

1. 维护量小, 介质直接控制, 无需外来能源的节能控制阀
 2. 不锈钢波纹管压力平衡式, 不平衡力小, 灵敏度高
 3. 设定点范围宽, 可通过调节螺母方便的调整设定点
 4. 对于高密封要求, 使用软密封阀芯
 5. 采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
- (1) DN ≥ 150时, 采用膜片平衡式。
1. Energy-saving control valve with low maintenance and direct control of medium without external energy
 2. Stainless steel bellows pressure balance type, small unbalance force, high sensitivity
 3. Wide range of set point, easy to adjust set point by adjusting nut
 4. For high sealing requirements, a soft seal spool is used
 5. Adopt standard modular design, high level of trituration, and multiple combination control through combination parts.

(1)When DN ≥ 150, the diaphragm balance type is used.

执行机构 Actuator

膜盒 (Membrane box)

上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
四种型号执行器可满足不同工况要求
Four types of actuators to meet the requirements of different working conditions

设定弹簧 (Set spring)

拆装更换便捷, 调节方便
Convenient disassembly and replacement, convenient adjustment
可提供五种压力设定范围
Available in five pressure setting ranges

特殊类型 (Special Types)

对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
For working environments with special cleanliness requirements, no lubricants and greases are used

指挥器
Commander

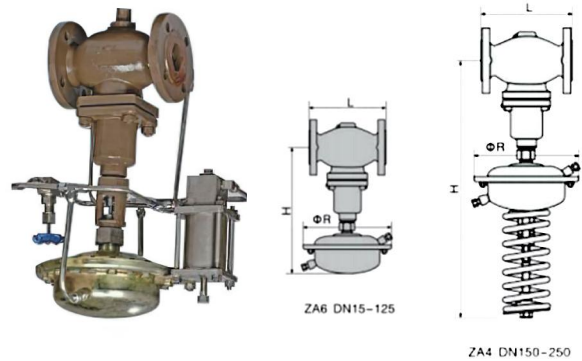
壳体 (shell) 内件 (Inner Parts)
气动座 (Pneumatic seat): 2Cr13 阀芯 Valve spool : 304+F4
缸体 (Cylinder block): 2Cr13 密封圈 Seals : FKM
法兰 (Flange): 2Cr13 阀杆 Valve stem : 2Cr13

压力平衡元件
Pressure balancing element

波纹管 (Bellows) : 316
平衡弹簧 (Balance spring) : 60Si2Mn
可提供五种压力设定范围, 通过调节螺钉和针阀来设定阀后压力
Available in five pressure setting ranges, Set by adjusting screw and needle valve
Set post-valve pressure

产品组合与允许工作温度
Product combinations and allowable operating temperatures

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K23013	15-250	K230	ZA4/ZA4	/	≤150℃	硬密封 Hard Seal
K23113	15-250	K231	ZA4/ZA4	/	≤150℃	软密封 Soft Seal
K23213	15-125	K232	ZA4	冷却罐 Cooling tank	≤200℃	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+散热片 Cooling tank + heat sink	≤300℃	硬密封 Hard Seal
	15-250	K232	ZA4	冷却罐+加长件 Cooling tank + extensions	≤300℃	硬密封 Hard Seal



阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰 RFa (flange RF)
材质 Material	WCB\CF8\CF8M

阀内件
Valve internals

阀芯 Valve spool	硬密封 (Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封 (Soft seal) FKM	阀杆 (Valve stem)	304、316

阀盖
Valve cover

内装压力平衡机构, 由以下零件组成: DN15~125由316波纹管+304平衡弹簧组合而成。DN150~250由FKM平衡膜片+304平衡弹簧组合而成。通过"连接螺母"将调节机构与执行机构组合在一起, 拆装十分便捷。

The pressure balancing mechanism is installed inside and consists of the following parts; DN15~125 by the combination of 316 bellows + 304 balance spring. DN150~250 is made of FKM balancing diaphragm + 304 balancing spring. The regulator and actuator are combined by means of a "coupling nut", which makes disassembly and assembly very easy.

ZYV23013/ZYV23113指挥器自力式调节阀
ZYV23013/ZYV23113 Commander self-operated regulating valve

K230/K231/K232 阀后调节机构技术参数
K230/K231/K232 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250	
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400	
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2	
最大压差△P _{max} (Mpa) Maximum differential pressure△P _{max} (Mpa)	PN16	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0	
	PN40	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0	1.0	
最大压差△P _{max} .PN16(Mpa) Maximum differential pressure △P _{max} .PN40(Mpa)	0.08										0.1			
允许泄漏量 (规定试验条件) Allowed leakage volume (under specified experimental conditions)	K230	4×10 ⁻⁴ × 阀额定容量(L/H)												
	K231	10气泡/分(10 bubbles/min)					20气泡/分(20 bubbles/min)					40气泡/分(40 bubbles/min)		
设定值偏差 Set deviation value	≤±4%													

小流量调节机构Cv值
Small flow regulator Cv value

公称通径DN (mm) Nominal diameter (mm)	15至32												
Cv	0.01	0.04	0.1	0.16	0.25	0.4	0.63	1.0	13	2.5			
阀座 (mm) Valve seat (mm)	6					8			11		14		
阀芯形式 Valve spool form	硬密封Hard seal												
泄露等级 Leakage level	GB4213-92 V级												

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)	250	
压力设定范围 (Mpa) Pressure setting range (Mpa)	0.01-0.12、0.08-0.25、0.02-0.5、0.45-1.0、0.6-2.0	
允许上下膜室之间的最大压差△P _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{max} (Mpa)	0.4	
控制管线/接头 Control lines/connectors	铜管或钢管φ10×1 (mm)卡套式管接头1/4"(Copeper or steel pipe,ferrule type fittings)	
控制精度 Control accuracy	±4%	

外型尺寸及重量
External dimensions and weight

ZA3 AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
ZA6 φ 263mm	H mm	372	372	398	398	400	400	435	435	435	540	/	/	/
	kg	15.2	15.2	15.2	22	23	26	38	38	69	79	/	/	/
ZA4 φ 263mm	H mm											796	824	874
	kg											93	153	233
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

	冷却罐1L、冷却罐3L Cooling tank 1L、Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上。(适用于有效面积为630CM ² 的执行器) Connected withφ10 pipe by R1/4 tube fitting, suitable for temperature≥150°C.
	FSQ-I型散热片、FSQ-I型散热片	适用于DN15-125.当介质温度在200°C-350°C之间时。同上。(采用波纹管密封,主要用于热电厂) Suitable for DN15-250. when the medium temperature is between 150°C- 350°C.
	阀体加长件FJC	适用于DN150-250.当介质温度在150°C-200°C之间时。 Suitable for DN15-250. when the medium temperature is between 150°C- 200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

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附件有效高度尺寸：FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

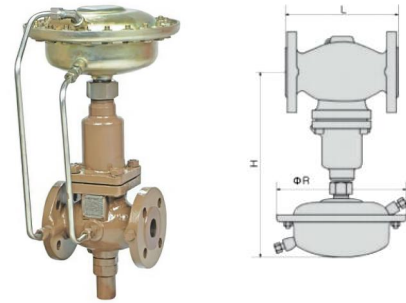
Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1. JB (China), 2. ANSI (United States), only ANSI150, 300 two kinds can be provided, 3. JIS (Japan) 2. H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

无需外来能源的节能型控制阀用于非腐蚀性液体、气体、蒸汽等介质工艺装置的流量控制。

Energy-saving control valves without external energy are used for flow control of non-corrosive liquids, gases, steam and other media in process installations.

产品特点 Product Features

1. 维护量小, 介质直接控制, 无需外来能源的节能控制阀
 2. 不锈钢波纹管(1)压力平衡式, 不平衡力小, 灵敏度高
 3. 采用标准模块化设计, 三化水平高, 通过组合件, 可进行多项组合控制。
(1) DN ≥ 150时, 采用膜片平衡式。
1. nergy-saving control valve with low maintenance and direct control of medium without external energy
 2. Stainless steel bellows(1)pressure balance type, small unbalance force, high sensitivity
 3. Adopt standard modular design, high level of trivialization, through combination parts, multiple combination control is possible.
(1)When DN ≥ 150, the diaphragm balance type is used.



执行机构 Actuator

膜盒 (Membrane box)

上下膜盖为钢板冲压
Upper and lower membrane cover is steel plate stamping
膜片及O型圈全部采用优质FKM材料
All diaphragms and O-rings are made of high quality FKM material
两种控制弹簧 (304) 设定了两种有效压力, 可满足不同工况要求
Two types of control springs (304) set two effective pressures to meet the requirements of different working conditions

特殊类型(Special Types)

对有特殊清洁度要求的工作环境, 不用润滑油和润滑脂
For working environments with special cleanliness requirements, no lubricants and greases are used

节流阀组件 Throttle assembly

节流阀体(Throttle body):2Cr13
节流内件(Throttle inner part) : 2Cr13

阀盖 Valve cover

内装压力平衡机构, 由以下零件组成;
DN15~125由316波纹管+304平衡弹簧组合而成。
DN150~250由FKM平衡膜片+304平衡弹簧组合而成。通过"连接螺母"将调节机构与执行机构组合在一起, 拆装十分便捷。
The pressure balancing mechanism is installed inside and consists of the following parts;
DN15~125 by the combination of 316 bellows + 304 balance spring.
DN150~250 is made of FKM balancing diaphragm + 304 balancing spring. The regulator and actuator are combined by means of a "coupling nut", which makes disassembly and assembly very easy.

产品组合与允许工作温度 Product combinations and allowable operating temperatures

产品型号 Product Model	规格范围DN Specification range DN	调节机构型号 Regulator Model	执行机构种类 Actuator Model	配套附件种类 Accessory type	工作温度 Operating temperature	芯座密封 Spool seat seal
K13005	15-250	K130	ZA5	/	≤150°C	硬密封 Hard Seal
K13005	15-250	K131	ZA5	/	≤150°C	软密封 Soft Seal
K13005	15-125	K131	ZA5	冷却罐 Cooling tank	≤200°C	硬密封 Hard Seal
	15-250	K131	ZA5	冷却罐+加长件 Cooling tank + extensions	≤200°C	硬密封 Hard Seal

阀体 Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰 RFa(flange RF)
材质 Material	WCB\CF8\CF8M

阀内件 Valve internals

阀芯 Valve spool	硬密封(Hard seal) 304、316	阀座 (Valve seat)	CF8、CF8M
	软密封(Soft seal) FKM	阀杆 (Valve stem)	304、316

ZYV13005/ZYV23105 自力式流量调节阀
ZYV13005/ZYV23105 Self-operated flow control valve

K130/K131/K132 阀后调节机构技术参数
K130/K131/K132 Technical parameters of post-valve regulator

公称直径DN Nominal Diameter	15	20	25	32	40	50	65	80	100	125	150	200	250
KVS值(m ³ /h)	4	6.3	8	16	20	32	50	80	125	160	280	320	400
Z值	0.6	0.6	0.6	0.55	0.55	0.5	0.5	0.45	0.4	0.35	0.3	0.2	0.2
最大压差△P _{max} (Mpa) Maximum differential pressure△P _{max} (Mpa)	PN16	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.2	1.0	1.0
	PN40	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.2	1.0
节流器压差(Δp)的流量范围 (m ³ /h)Qs(有效压力的流量范围) Flow range (m ³ /h) for throttle differential pressure (Δp) Qs flow range for effective pressure	0.02(Mpa)	0.1-2	0.2-3	0.2-4	0.4-7	0.6-11	0.8-16	3-28	4-40	6-63	8-80	12-125	15-150
	0.05(Mpa)	0.2-3	0.3-1.5	0.3-6	0.5-10	0.8-16	1.2-24	4-40	6-58	9-90	12-120	18-180	22-220
允许泄漏量 (规定试验条件) Allowable leakage volume (under specified experimental conditions)	硬密封	10气泡/分(10 bubbles/min)						20气泡/分(20 bubbles/min)			40气泡/分(40 bubbles/min)		
	设定值偏差 Set deviation value	铜管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe, ferrule type fittings)											

ZA3执行机构主要技术参数
Main technical parameters of ZA4 actuator

执行机构有效面积(cm ²) Effective area of the actuator (cm ²)	250
有效压力(Mpa) Effective pressure(Mpa)	0.02、0.05
允许上下膜室之间的最大压差△P _{min} (Mpa) Allowed maximum pressure difference between upper and lower membrane chamber △P _{min} (Mpa)	0.4
控制管线/接头 Control lines/connectors	铜管或钢管φ10×1(mm)卡套式管接头1/4"(Copeper or steel pipe, ferrule type fittings)
控制精度 Control accuracy	±5%

外型尺寸及重量
External dimensions and weight

AφR	DN	15	20	25	32	40	50	65	80	100	125	150	200	250
ZA5 φ 263mm	H mm	372	372	398	398	400	400	435	435	435	540	576	604	654
	kg	15.2	15.2	15.2	22	23	26	38	38	69	79	94	154	237
L		130	150	160	180	200	230	290	310	350	400	480	600	730

附件
Annexes

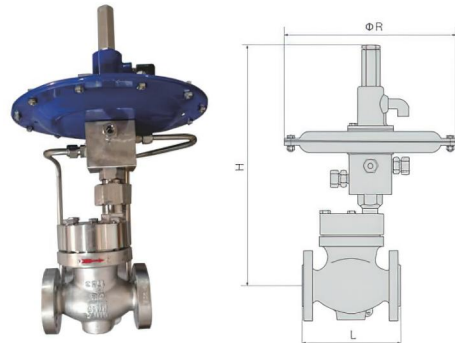
	冷却罐1L、冷却罐3L Cooling tank 1L, Cooling tank 3L	用R1/4卡套式管接头与中10管连接,适用于≥150°C时,同上,(适用于有效面积为630CM ² 的执行器) Connected with φ10 pipe by R1/4 tube fitting, suitable for temperature ≥150°C.
	阀体加长件FJC	适用于DN150-250.当介质温度在150°C-200°C之间时。 Suitable for DN150-250. when the medium temperature is between 150°C- 200°C.
	行程显示器FHC For travel displa	用于行程显示,适用于温度≤200°C时。 For travel display, suitable for temperature 200°C

注：1、法兰标准：正常为DIN标准(德国)也可为用户提供下列法兰标准的产品,但订货时应特殊注明。1、JB(中国),2、ANSI(美国)只可提供ANSI150、300两种,3、JIS(日本)2、表中H为不包括附件的整机高度。加附件时,整机高度为表中的高度加上附件的有效高度。附件有效高度尺寸：FJC型加长件(T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm
Note: 1, flange standard: normal DIN standard (Germany), can also provide users with the following flange standard products, but should be specially indicated when ordering. 1, JB (China), 2, ANSI (United States), only ANSI150, 300 two kinds can be provided, 3, JIS (Japan) 2, H in the table is the height of the whole machine without accessories. When attachments are added, the height of the whole machine is the height in the table plus the effective height of the attachments. The effective height of the attachment dimensions: FJC type extensions (T>140°C, DN150-250) DN150 304mm, DN200 504mm, DN250 804mm

ZYV25108 自力式微压调节阀
ZYV25108 Self-operated micro-pressure control valve

无需外来能源的节能型控制阀,可广泛用于干介质压力不大于1.4Mpa工作温度不大于120°C(150°C),调压范围在0.14~7.2Kpa无腐蚀性的气体或空气介质的阀后压力(毫米水柱级)广泛适用于各种油、化学品、液体贮罐的气封调压装置中。

Energy-saving control valve without external energy, can be widely used in dry medium pressure is not greater than dry 1.4Mpa working temperature is not greater than 120 °C (150 °C), regulating pressure range in 0.14 ~ 7.2Kpa non-corrosive gas or air medium after the valve pressure (mm water column level) widely used in a variety of oil, chemicals, liquid storage tanks in the gas seal pressure regulating device.



膜片

Diaphragm

丁腈橡胶 (Nitrile rubber(NBR)) : -40~120°C

氟橡胶 (Viton) : -20~150°C

乙丙橡胶 (Ethylene Propylene Rubber) : -50~150°C

执行机构 Actuator

膜盒 (Membrane box): A3钢板冲压成型

弹簧: 304 阀芯: 304

阀座: 304 阀杆: 304

阀盖

Valve cover

材质 (Material): WCB\CF8\CF8M

压力平衡元件 (Pressure balancing elements): 膜片+弹簧 (Diaphragm + spring)

材料 (Material): 弹簧 (Spring) 304

阀体
Valve body

形式 Form	流体压力平衡型阀芯 Fluid pressure balance type spool
公称通径 Nominal diameter	DN15-250mm
公称压力 Nominal pressure	PN1.6、2.5、4.0MPa
连接方式 Connection method	法兰RFa(flange RF)
材质 Material	WCB\CF8\CF8M

K251微压阀(主阀)技术参数

K251 micro-pressure valve (main valve) technical parameters

公称直径 Nominal Diameter	15	20	25	30	40	50	65	80	100
额定流量系数Kv value Rated flow coefficient Kv value	4	6.3	8	16	20	32	50	80	25
流量特点 Flow characteristics	快开Fast opening								
公称压力 Nominal pressure	PN	1.6Mpa							
压力平衡元件 Pressure balancing elements	弹簧 (Spring)	1Cr18Ni9							
	波纹管 Corrugated diaphragm	丁腈橡胶 Nitrile rubber(NBR)	氟橡胶 Viton	乙丙橡胶 Ethylene Propylene Rubber					
工作温度 Operating temperature		-40~120°C	-20~150°C	-50~150°C					
允许泄露量(阀前输入0.1Mpa气压) Allowable leakage (0.1Mpa air pressure input before the valve)		1个气泡/1 bubble/min	2个气泡/2 bubble/min	3个气泡/分 3 bubble/min	4个气泡/分 4 bubble/min	6个气泡/分 6 bubble/min	11个气泡/分 11 bubble/min		

ZA8型执行机构(指挥器)主要技术参数

Main technical parameters of ZA8 type actuator (conductor)

执行机构有效面积(cm ²) Effective area of actuator (cm ²)	430		
阀后压力控制范围(Kpa) Pressure control range after the valve (Kpa)	0.14-0.36	0.32-1.00	0.90-2.50
	2.10-4.50	3.90-7.20	
最大输入压力(Mpa) Maximum input pressure Mpa(Mpa)	≤1.4		
最小输入压力(MPa) Minimum input pressure Mpa(Mpa)	≥0.2		
膜片材质 Diaphragm material	氟橡胶viton		
工作温度 Operating temperature °C	-20~150°C		
调节精度 Adjustment accuracy	±15%		

外形尺寸及重量K25108

Dimension and weight K25108

AφR	DN	15	20	25	32	40	50	65	80	100
	H mm	320	170	390	400	410	438	460	500	520
ZA8 φ280mm	kg	18	26	26	32	40	47	60	65	71
	L	150	160	160	230	230	230	290	350	350

气动三通调节阀
Pneumatic 3 way regulating valve

性能规范
Function and specification

输入气源 Input air source	输入压力 Input pressure	特性 Features
压宿空气 The compressed air	0.3Mpa-0.4Mpa	常闭 Normally closed

主要连接外型尺寸
Main connection dimensions

公称通径 Nominal Diameter DN(mm)	尺寸 Measurement (mm)							
	D	D1	N-d	L	H1	H	E	H2
25	115	115	4-φ14	160	84	640	φ245	290
32	140	140	4-φ18	180	98	650	φ245	290
40	150	150	4-φ18	200	108	665	φ245	290
50	165	165	4-φ18	230	112	670	φ245	290
65	185	185	4-φ18	290	126	720	φ245	290
80	200	160	4-φ18	310	130	735	φ245	290
100	220	180	4-φ18	350	150	770	φ245	290

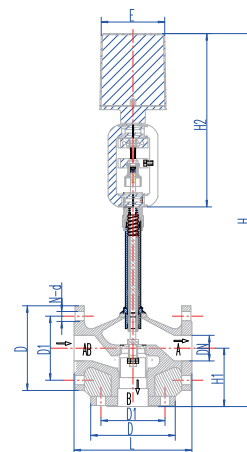
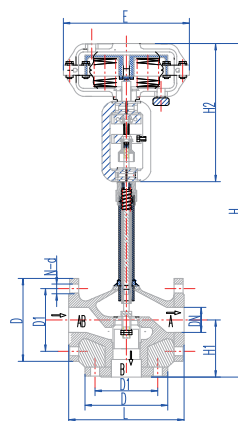
DRY 电动三通调节阀
DRY Electric 3 way regulating valve

性能规范
Function and specification

型号 type	输入信号 Input Signal	反馈信号 Feedback signal	电源 Power source
DRY	220V (AC)	220V(AC)	220
DRY-MN	4-20mA	4-20mA	220

主要连接外型尺寸
Main connection dimensions

公称通径 Nominal Diameter DN(mm)	尺寸 Measurement (mm)							
	D	D1	N-d	L	H1	H	E	H2
25	115	115	4-φ14	160	84	690	φ130	340
32	140	140	4-φ18	180	98	700	φ130	340
40	150	150	4-φ18	200	108	715	φ130	340
50	165	165	4-φ18	230	112	720	φ130	340
65	185	185	4-φ18	290	126	770	φ130	340
80	200	160	4-φ18	310	130	785	φ130	340
100	220	180	4-φ18	350	150	820	φ130	340



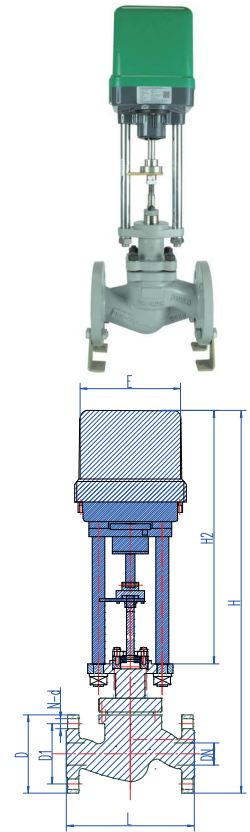
RIK 电动二通调节阀
RIK Electric 2 way regulating valve

性能规范
Function and specification

型号 type	输入信号 Input Signal	反馈信号 Feedback signal	电源 Power source
RIK	220V (AC)	220V(AC)	220
RIK-MN	4-20mA	4-20mA	220

主要连接外型尺寸
Main connection dimensions

公称通径 Nominal Diameter DN(mm)	尺寸 Measurement (mm)							
	D	D1	N-d	L	H1	E	H2	
25	115	115	4-φ14	160	600	160	410	
32	140	140	4-φ18	180	620	160	410	
40	150	150	4-φ18	200	630	160	410	
50	165	165	4-φ18	230	640	160	410	
65	185	185	4-φ18	290	670	160	410	
80	200	160	8-φ18	310	680	160	410	
100	220	180	8-φ18	350	700	160	410	



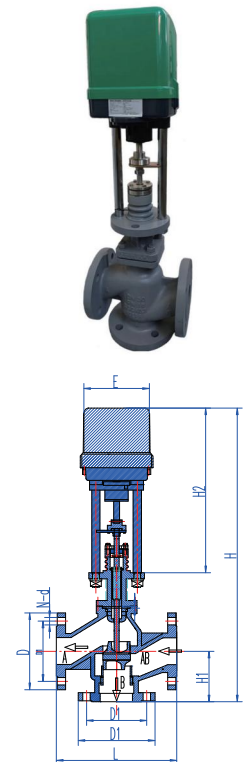
RIK 电动三通调节阀
RIK Electric 3 way regulating valve

性能规范
Function and specification

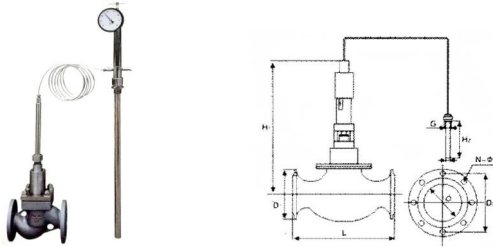
型号 type	输入信号 Input Signal	反馈信号 Feedback signal	电源 Power source
RIKX	220V (AC)	220V(AC)	220
RIKX-MN	4-20mA	4-20mA	220

主要连接外型尺寸
Main connection dimensions

公称通径 Nominal Diameter DN(mm)	尺寸 Measurement (mm)							
	D	D1	N-d	L	H1	H	E	H2
25	115	115	4-φ14	160	75	640	160	410
32	140	140	4-φ18	180	80	650	160	410
40	150	150	4-φ18	200	90	670	160	410
50	165	165	4-φ18	230	100	690	160	410
65	185	185	4-φ18	290	120	720	160	410
80	200	160	8-φ18	310	130	740	160	410
100	220	180	8-φ18	350	150	760	160	410



ZZWP型自力式温度调节阀
ZZWP Self-operated temperature regulating valve



根据被控介质温度的变化自动调节阀开度, 无需外界能源而进行温度自动调节, 使用于蒸汽、热水、热油等为介质的各种换热场合, 广泛应用于采暖供热, 制冷空调、生活热水、石油化工、电力、机电、纺织、橡胶、食品等行业。
According to the controlled medium temperature changes automatically adjust the valve opening, without external energy and automatic temperature adjustment, used in steam, hot water, hot oil and other media for a variety of heat transfer occasions, widely used in heating and heating, refrigeration and air conditioning, domestic hot water, petrochemical, electric power, electromechanical, textile, rubber, food and other industries.

主要技术参数
Main technical parameters

公称通径 (mm) Nominal diameter (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250
流通能力C值 Flow capacity C value	3.2	5	8	12.5	20	32	50	80	120	180	260	350	450
公称压力 (Mpa) Nominal pressure (Mpa)	阀体材质为铸铁) PN25 (2.5Mpa, 阀体材质为铸钢) Nominal pressure (Mpa) PN16 (1.6Mpa, the valve body cast iron) PN25 (2.5Mpa, the valve body cast steel)												
温度设定范围°C Temperature setting range(°C)	+35°C~+110°C												
导管长度m Conduit length(m)	导管标准长度3m; 特殊定做5m 10m 15m Conduit standard length 3m; special custom 5m 10m 15m												
最大工作温度 Maximum working temperature -	铸铁Cast iron						180°C						
	铸钢 Cast steel						350°C						

特点 (Features):

体积小、重量轻、安装简易, 准确可靠寿命长调解设定简易, 免维修式工作, 无需昂贵的调试费用无源工作 (无电源、气源正常工作) 阀体内部采用波纹管平衡元件, 克服高压差关闭, 开启阀体密封采用V型环高温密封组件, 防止了阀杆过紧抱死或漏气的可能性。
Small size, light weight, easy to install, accurate and reliable, long life, easy to set mediation, maintenance-free type work, no expensive commissioning costs passive work (no power, gas source normal work). Valve body internal bellows balance elements to overcome high pressure differential closure, open the valve body seal using V-ring high-temperature sealing components to prevent the possibility of over-tight stem holding or air leakage.

技术参数:

Technical parameters:
公称压力: PN16
Nominal pressure
行程: DN40-DN100: 20mm
Stroke
DN100-DN250: 40mm

泄漏量: 0-0.05Kva

温度设定范围: +35°C~+110°C

介质温度: +1°C~+220°C

阀瓣特性: 快开式比例调节

Valve flap characteristics: fast-opening proportional adjustment

材质: 阀体: 球墨铸铁, 阀杆、阀瓣: 不锈钢, 执行器、感温包: 不锈钢

Material: valve body: ductile iron, valve stem, valve flap: stainless steel, actuator, temperature-sensitive-

导管: 紫铜管, 平衡元件: 316L不锈钢

package: stainless steel Conduit: purple copper tube, balance element: 316L stainless steel

阀杆密封: 组合特种专用密封

Stem seal: combination of special special seal

外形尺寸表
Dimension table

单位: mm
Unit: mm

型号 Size(DN)	H1 (mm)	D1 (mm)	D (mm)	D2 (mm)	L (mm)	D (mm)	G (mm)	H2 (mm)	N~φ (mm)	重量 Weight(kg)
DN32	555	135	32	100	180	25	1	180	4~φ18	23
DN40	570	145	40	110	200	25	1	180	4~φ18	25
DN50	610	160	50	125	230	25	1	280	4~φ18	28
DN65	635	180	65	145	290	25	1	280	4~φ18	333
DN80	680	195	80	160	310	25	1	280	8~φ18	45
DN100	720	215	100	18	350	25	1	280	8~φ18	57
DN125	760	245	125	210	395	25	1	380	8~φ18	73
DN150	800	280	150	240	470	25	1	380	8~φ23	100
DN200	950	335	200	300	550	25	1	480	12~φ22	200
DN250	985	405	250	355	640	25	1	480	12~φ22	250



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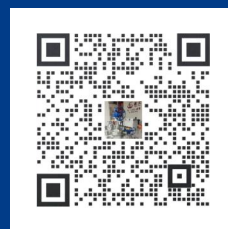
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