

水务阀门系列
Valves for water supply

吉富隆智能装备制造集团有限公司
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企业简介



吉富隆智能装备制造集团有限公司始建于2010年，是一家集自主研发、高端制造、营销服务为一体的现代化集团公司。集团总部坐落于首都北京经济技术开发区，交通十分便利。集团在北京、河北、江苏等地设有生产基地。注册资金10560万元。

公司有产品设计开发中心，现有中高级工程技术人员20余人，使用CAD、CAM辅助开发设计制造系统，采用相关三维等专业技术软件进行产品建模、有限元分析，以保证产品的设计开发。公司经过多年的创新和发展，已成为国内外具有很强的设计开发和科研与生产相结合规模的智能装备制造企业。

公司拥有先进的数控加工中心、数控机床及金加工和切削加工设备；全自动埋弧焊机、气体保护焊机等焊接设备及热处理设备；具备较强检测能力和先进检测设备，有光谱分析仪、硬度计、超声波测厚仪、超声波探伤仪等理化、无损检测设备，拥有先进的阀门综合性能测试、阀门扭矩、寿命试验装置等阀门压力、性能试验装置。

公司致力于智能装备、节能环保等领域，为智能工业系统、智慧热网、智慧水务提供节能方案设计、节能产品制造、工程节能改造、技术维护等服务。同时与哈尔滨工业大学紧密合作，为用户提供智能热网管理中心平台、热网监控、热源控制系、换热站无人值守控制系统，针对集中供热领域全面提供从热源、热网、热力站到热用户的整体节能解决方案。

公司专业生产大口径和高压等级的油气长输管线球阀(分体式 and 全焊接)和供热专用大口径全焊接球阀、轨道球阀、高性能金属密封蝶阀、旋塞阀以及平板闸阀等产品。可按GB、JB、ASME、ANSI、API、DIN、BS等标准生产，广泛应用在石油、天然气长输管线、化工、电厂、区域供热、水处理等诸多领域，产品以卓越的品质和优质服务赢得了国内外客户的信任，产品行销全国，并远销墨西哥、意大利、美国、智利、委内瑞拉、西班牙等国家和地区。

为了更好的适应市场经济，充分发挥企业优势，公司不断引进外来技术、吸纳先进的管理经验，引进培养高端人才，以一流的产品质量和周到的服务来回馈客户。作为高端阀门装备的制造厂家，为市场提供优质的智能装备产品是我们的责任，也是我们的生存发展之道。

诚信天下，合作共赢！欢迎新老客户莅临我公司参观、指导。

Company's profile



GIFLON INTELLIGENT EQUIPMENT MANUFACTURING GROUP CO., LTD. was founded in 2010. It is a modern group company integrating with own R&D, high-class manufacturing, and marketing services. Its headquarter is located in the Beijing Economic and Technological Development Zone within convenience transportation. The group has production bases in Beijing, Hebei, Jiangsu and etc, within RMB 105.6 million registered capital.

The company has more than 20 senior engineers and technicians, using CAD and CAM to develop design and manufacturing systems and applying software such as Pro/E and SolidWorks for products modeling and finite element analysis to guaranty the products design and development. After years of innovation and development, the company has become an intelligent equipment manufacturing enterprise with strong design, development, research and production in both China and abroad.

The company has advanced NCPC, CNC machine tools, metal processing, lathe and milling equipment; automatic submerged arc, gas shield and other welding equipment; heat treatment equipment; and strong test capability and advanced mechanical and chemical testers, NDT test instruments such as spectrum analyzers, hardness testers, Ultrasonic thickness gauge, ultrasonic flaw detector, etc and advanced comprehensive valve performance testers, torque, and life span testers.

The company is dedicated on intelligent equipment, energy conservation and environmental protection, and provides services such as energy-saving solution design, energy-saving products manufacturing, projects energy-saving renew, and technical maintenance for intelligent industrial systems, intelligent heating networks, and intelligent water networks. Meanwhile, we have closed cooperation with Harbin Institute of Technology to provide intelligent heating network management center platform, heating network monitoring, heat source control system, heat exchange station unattended control and etc. For collective heat supply, we provide integrated solution for energy saving from the heat source, heat network, distribution station, until the end users.

We are professional on the manufacturing of large-diameter and high-pressure ball valves (split body and fully welded) for long-distance oil and gas pipeline and heating network pipeline, orbital ball valves, high-performance metal sealing butterfly valves, plug valves, flat gate valves and other products. Valve products can be produced in accordance with standards as ASME, ANSI, API, GB, DIN, BS and are widely used in petroleum and natural gas pipelines, oil refinery, chemical industry, power plants, heating network, water treatment and many other fields. Our products have won the trust from domestic and foreign customers through excellent quality and service, and have been exported to Mexico, Italy, the USA, Chile, Venezuela, Spain and other countries.

In order to better adapt to the market economy and completely utilize the advantages of our company, we continuously introduce foreign technology, absorb advanced management experience, high class human resource, and present high quality products and thoughtful service to our customers. As a manufacturer and innovator of high-class equipment, it is our responsibility to provide high-quality intelligent equipment products to the market; creating value for our customers is our way to survival and development.

We warmly welcome every new and old customer visits and instructs our company and look forward to build a win-win cooperation with you.

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产品概述 Product Overview

水力控制阀是一系列控制阀的总称，它较早生产于以色列、荷兰、丹麦、美国、加拿大等国，九十年代进入中国，本公司生产的水力控制阀系列，分别为遥控浮球阀，可调式减压阀，缓闭止回阀、流量控制阀、泄压/持压阀，电动阀、水泵控制阀、压差平衡阀、紧急关闭阀、雨淋阀、定水位阀等产品。并广泛用于建筑、消防、水厂、暖通、市政、钢铁、电力、石油、化工等系统的管网。

Hydro power control valve is the general name of a series of control valves. It was produced in Israel, the Netherlands, Denmark, the United States, Canada and other countries before, and introduced to China in the 1990s. The hydro power control valve series was produced by our company include remote control floating ball valves, adjustable pressure reducing valve, non-slam check valve, flow control valve, pressure relief/pressure holding valve, electric valve, water pump control valve, differential pressure balancing valve, emergency shut-off valve, deluge valve, water level holding valve and other products. And they are widely applied in the pipeline of construction, fire fighting, water plant, HVAC, municipal utilities, steel, electricity, petroleum, chemical industry and other systems.

水力控制阀它是利用水力控制原理，利用上、下阀腔的压力差控制阀盘的运动，再通过旁通管路和各种不同构造的导阀起不同功能产生系列阀。

The hydro power control valve uses the hydro power control principle and the pressure difference between the upper and lower valve chambers to control the movement of the valve disc, and then produces a series of valves with different functions through bypass lines and pilot valves with various structures.

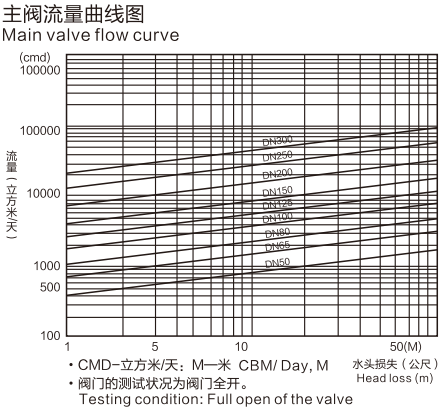
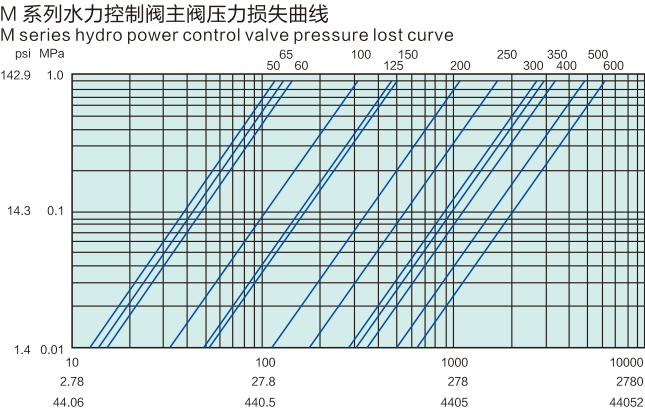
产品特点: Features

- 阀体采用全通道、流线型设计、流体阻力小、注量大；阀体、阀盖内外采用环氧树脂粉体涂装可防止阀体、阀盖的腐蚀；采用国外可拆卸阀座的先进技术，结构巧妙，维修更换方便（无须整台阀门拆除）；The valve body adopts full bore, streamlined design, low fluid resistance and large injection volume; the valve body and bonnet are coated with epoxy resin powder on both inside and outside to prevent corrosion on the valve body and bonnet; it adopts advanced foreign technology of removable seat, with ingenious structure and convenient to maintain and replace parts (no need to dismantle the whole valve)
- 在管路中可任意立式或卧式安装，其可靠性不变；It can be installed vertically or horizontally in the pipeline not affect to its reliability.
- 阀体、阀盖、活塞缸连接处采用密封垫和密封环双重保护；The valve body, valve cover, piston cylinder joints are double protected by sealing gaskets and sealing rings;
- 活塞缸采用导流孔，适当增加阻力，使活塞运动更加平稳、灵活；The piston cylinder adopts a guide hole to increase the resistance properly, making the movement of piston more stable and flexible.
- 全不锈钢活塞缸、整体活塞、丁腈橡胶密封环，完全组合大大延长使用寿命。The stainless steel piston cylinder, integral piston, and nitrile rubber sealing ring are fully combined to extend the life span greatly.

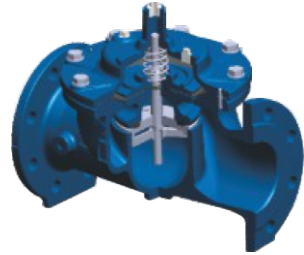
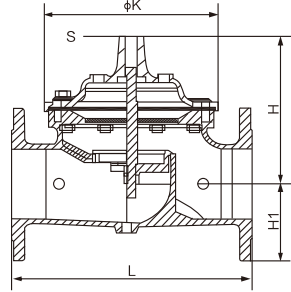


主要零部件材料 Material of main parts

序号 No.	隔膜式 Diaphragm type		活塞式 Piston type	
	部件名称 Name of part	选用材料 Material	部件名称 Name of part	选用材料 Material
1	阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel	阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
2	弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel	缸套 Cylinder sleeve	不锈钢 Stainless steel
3	膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel	活塞 Piston	球墨铸铁 Ductile cast iron
4	膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber	密封圈 Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
5	阀杆 Stem	2Cr13	阀杆 Stem	2Cr13
6	阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel	弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
7	O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber	阀盘 Disk	球墨铸铁 Ductile cast iron
8	O型圈压板 Gland of O ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel	密封垫 Gasket	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
9	阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel	阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
10	阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel	密封压板 Sealing gland	球墨铸铁 Ductile cast iron



产品主要结构简图 Drawing of main structure of the product



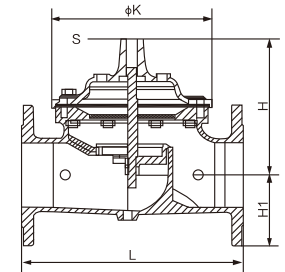
主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
L	230	290	310	350	350	480	600	730	850	850	1100	1100	1250	1450
H	139	159	179	214	214	333	407	476	526	526	624	624	720	835
H1*	85	95	102	112	127	145	172	205	323	262	292	325	360	425
φK	173	198	226	265	265	351	436	524	606	606	741	741	1002	1308
S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300

安装使用说明 Manual of installation and using

- (1)将设备要求的额定参数与产品上标示的额定参数进行对照，确保产品满足应用的要求；
Compare the rated parameters required by the equipment with the rated parameters marked on the product to ensure that the product meets the application requirements;
- (2)安装人员必须是经过培训的、有经验的，以确保安装工作顺利完成；
The installers must be trained and experienced to ensure the smooth completion of the installation;
- (3)在安装结束后必须进行彻底的检查以确保安装无误；
After the installation is completed, a thorough inspection must be carried out to ensure the installation is correct;
- (4)为确保安装工作不出现任何意外，在产品安装前必须对管道系统进行彻底地的清洗(必要时采用化学试剂)，以确保管道系统的清洁。无锈蚀和污垢，在冲洗前必须移去所有的过滤装置以确保管道通畅；
To ensure that there are no accidents during the installation, before the installation, the pipeline system must be thoroughly cleaned (using chemical reagents if necessary) to ensure that the pipeline is clean, free of rust and dirt. All strainers must be removed before flushing to ensure the pipeline is clean.
- (5)建议在系统初始清洗时设备安装管道处安装临时管道，待冲洗工作完成后再将设备安装到管道上；
It is recommended to install a temporary pipeline at the equipment installation section during the initial cleaning of the pipeline, and then install the equipment on the pipeline after the flushing work is completed;
- (6)注意该设备不要使用在介质含有较多油脂、矿物油等粘度较高或有腐蚀性的地方；
Please be noted that this equipment is not applicable on medium contains a lot of grease, mineral oil, or high in viscosity or corrosive.
- (7)使用符合标准的法兰及对应螺栓固定；
Please use standard flange and bolts to fix the equipment
- (8)安装时，请注意介质流动方向需与阀体的箭头方向一致；
Please mind the flow direction of the medium is the same as the arrow on the valve body.
- (9)DN200 以下的主阀水平或垂直安装均可，但以水平安装为宜。DN200 及以上只能水平安装
The valve under DN200 can be installed horizontally or vertically, above DN 200 can only be installed horizontally, horizon installation is more recommended.



工作原理

Working principle

当液面达到设定高度时自动关闭，当液面下降到一定高度就自动补水。

When the level of the liquid reaches to a set height, the valve will close automatically, when the liquid level drops, the valve will open and supply liquid

主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
O型圈压板 O Gland of ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
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S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300

产品应用及特点

Application and feature of product

功能 Function:

控制水塔、水箱和水池液面的高度。

Control the the height of the liquid level of water tower, water tank, pool

应用领域 Applicable sites:

建筑、水处理等。

Building, water treatment and etc.

产品特点 Product features:

- 1、启闭无摩擦 No friction during the open and close
- 2、上装式结构 Top assemble structure
- 3、密封性能可靠 Reliable sealing
- 4、操作方便 Easy to operate
- 5、适用范围广 Wide application

技术参数

Specifications

公称通径 DN: DN50~DN600

公称压力 PN: PN16、PN25

适用温度 Applicable temperature: 0℃~80℃

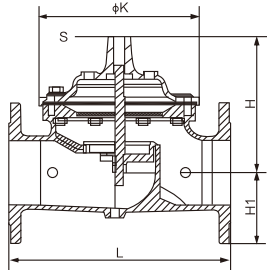
适用介质 Applicable medium: 清水Clear water

最小压差 Min pressure difference: 0.1MPa

设计标准 Design standard: JB/T 10674-2006

测试标准 Test standard: GB/T 13927-2008

液面控制高度 Height of liquid level control: ≤150mm



工作原理
Working principle

当阀门从进口端给水时，水流过针阀进入主阀控制室，出口压力通过导管作用到导阀上，当出口压力高于导阀弹簧设定值时，导阀关闭。控制室停止排水，此时主阀控制室内压力升高并关闭主阀，出口压力不再升高。当阀门出口压力降到导阀弹设定压力时，导阀开启控制室向下游排水。由于导阀系统排水量大于针阀的进水量，主阀控制室压力下降。进口压力使用主阀开启。在稳定状态下，控制室进水、排水相同，主阀开度不变，出口压力稳定。调节导阀弹簧即可设定出口压力。

When the valve supplies water from the inlet, flow through the needle valve into the control chamber of the main valve, and the outlet pressure acts on the pilot valve through the conduit. When the outlet pressure is higher than the setting value of the spring on the pilot valve, the pilot valve closes. The control chamber stops draining water, and the pressure in the control chamber of main valve increases and closes the main valve, and the outlet pressure no longer increases. When the valve outlet pressure drops to the set pressure of the spring of pilot valve, the pilot valve opens the control chamber to drain water to downstream. Since the water discharge of the pilot valve system is bigger than the water intake from the needle valve, the pressure in the control chamber of main valve drops. The inlet pressure opens the main valve. Under stable conditions, the water intake and drainage of the control chamber are the same, the opening angle of the main valve is not changed, and the outlet pressure is stable. The outlet pressure can be set by adjusting the spring of pilot valve .

产品应用及特点
Application and feature of product

功能 Function:
当阀前压力有波动或流量变化的情况下，它能使管道内的高压水自动的减为稳定的低压水，而且减压阀的出口压力在一定范围内可随意调节。

When the pressure before the valve waves or the flow changes, it can automatically reduce the pressure of water in the pipeline to stable water pressure, and the outlet pressure of the pressure reducing valve can be adjusted within a certain range freely.

应用领域 Applicable sites:
建筑、水处理等。
Building, water treatment and etc.

产品特点 Product features:
1、启闭无摩擦 No friction during the open and close
2、上装式结构 Top assemble structure
3、密封性能可靠 Reliable sealing
4、操作方便 Easy to operate
5、适用范围广 Wide application

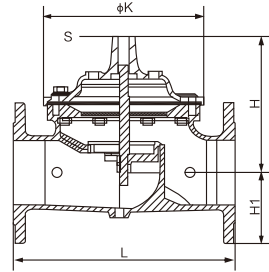
技术参数 Specifications
公称通径 DN: DN50~DN600
公称压力 PN: PN16、PN25
适用温度 Applicable temperature: 0℃~80℃
适用介质 Applicable medium: 清水Clear water
最小压差 Min pressure difference: 0.1MPa
设计标准 Design standard: JB/T 10674-2006
测试标准 Test standard: GB/T 13927-2008
液面控制高度 Height of liquid level control: ≤150mm

主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
O型圈压板 O Gland of ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size 单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
L	230	290	310	350	350	480	600	730	850	850	1100	1100	1250	1450
H	139	159	179	214	214	333	407	476	526	526	624	624	720	835
H1*	85	95	102	112	127	145	172	205	323	262	292	325	360	425
φK	173	198	226	265	265	351	436	524	606	606	741	741	1002	1308
S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300



工作原理 Working principle

当阀门从进口端给水时，水通过微型过滤器、针阀、单向阀进入主阀控制室，再经过球阀排水至下游。因为针阀开度小于球阀开度，即主阀控制室的排水速度大于进水速度，因此控制室压力降低，作用于主阀盘下端的进口压力打开主阀向下游供水。当管道停止供水时，若下游水开始回流，一部分回流水经球阀进入主控制室。由于单向阀作用，回流水不能从主控制室流出，引起主控制室逐渐升压，缓缓关闭主阀。

When the valve supplies water from the inlet, flow through the Micro strainer ,needle valve, check valve,into the control chamber of the main valve, then flows down to the downstream through a ball valve. Because the opening of the needle valve is less than ball valve, that means, the drainage speed of the control chamber is bigger than the water inlet speed, so the pressure of the control chamber is reduced, and the inlet pressure at the lower end of the main valve disc opens, water flows to the downstream through main valve. When the water supply in the pipeline stops, if the back flow from downstream starts, part of the return water enters the main control chamber through the ball valve. Due to the work of the check valve, the back flow cannot flow out of the main control chamber, and causes the pressure of the main control chamber increases, and closes the main valve slowly.

产品应用及特点 Application and feature of product

功能 Function:
调节阀门开启和关闭速度，防止管道内水倒流。
Regulate the opening/ closing speed of the valve, prevent the back flow of the water in the pipeline.

应用领域 Applicable sites:

建筑、水处理等。
Building, water treatment and etc.

产品特点 Product feature:

- 1、启闭无摩擦 No friction during the open and close
- 2、上装式结构 Top assemble structure
- 3、密封性能可靠 Reliable sealing
- 4、操作方便 Easy to operate
- 5、适用范围广 Wide application

技术参数 Specifications

公称通径 DN: DN50~DN600
公称压力 PN: PN16、PN25
适用温度 Applicable temperature: 0℃~80℃
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设计标准 Design standard: JB/T 10674-2006
测试标准 Test standard: GB/T 13927-2008
液面控制高度 Height of liquid level control: ≤150mm

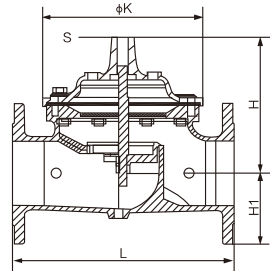
主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass,stainless steel
O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
O型圈压板 O Gland of ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
L	230	290	310	350	350	480	600	730	850	850	1100	1100	1250	1450
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ΦK	173	198	226	265	265	351	436	524	606	606	741	741	1002	1308
S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300



工作原理 Working principle

作泄压阀:当泄压/持压导阀调整为泄压状态时，水通过针阀、主阀控制室、球阀、泄压/持压导阀、球阀流向出口，此时主阀处于开启状态。当进口压力超过泄压/持压导阀设定的安全值时，泄压导阀会自动开启，通过球阀放出部分水，使管路泄压。当压力恢复到安全值时，泄压阀自动关闭。作泄压阀时，各球阀常开。

Working as Pressure relief valve: when the guide valve of the pressure relief / pressure holding is set to the pressure relief state, the water flows through needle valve, main valve control chamber, ball valve, guide valve and the ball valve, and the main valve is open. When the inlet pressure exceeds the safety value set on the guide valve, the pressure relief guide valve will open automatically and release some part of water from the pipeline through the ball valve to relieve the pressure in pipeline. When the pressure returns to safety, the pressure relief valve closes automatically. When working as the pressure relief valve, each ball valve is normal open.

作持压阀:当泄压/持压导阀调整为持压状态时，只要主阀进口水压低于导阀设定值，导阀即关闭和。主要控制室升压，主阀关闭。当主阀上游供水压力超过导阀设定压力时，持压导阀才能打开，控制室的水经球阀排到出口，控制室降压主阀开启，开始供水，即保持了上游水压。作持压阀用时，球阀常闭或用丝堵换下。

Working as pressure holding valve: when the guide valve of pressure relief/pressure holding is adjusted to the pressure holding state, when the inlet water pressure of the main valve is lower than the set value of the guide valve, the guide valve is closed, The pressure in main control chamber is increasing, and the main valve is closed. When the water supply pressure from upstream exceeds the pressure set on the guide valve, the pressure guide valve can open, The water in the control chamber is discharged to the outlet through the ball valve, and the main valve of the control chamber is open to start the water supply, that is, the upstream water pressure is maintained. When working as the pressure holding valve, the ball valve is normal closed or replaced by plug.

产品应用及特点 Application and feature of product

功能 Function:
控制管道系统压力，消除管道多余压力，使系统的压力保持在预先设定的压力点上，确保管路系统安全运行。

Control the pipeline system pressure, eliminate the surplus pressure in the pipeline, keep the pressure of the system at the preset point, and ensure the safe operation of the pipeline system.

应用领域 Applicable sites:

建筑、水处理等。
Building, water treatment and etc.

产品特点 Product feature:

- 1、启闭无摩擦 No friction during the open and close
- 2、上装式结构 Top assemble structure
- 3、密封性能可靠 Reliable sealing
- 4、操作方便 Easy to operate
- 5、适用范围广 Wide application

技术参数 Specifications

公称通径 DN: DN50~DN600
公称压力 PN: PN16、PN25
适用温度 Applicable temperature: 0℃~80℃
适用介质 Applicable medium: 清水Clear water
最小压差 Min pressure difference: 0.1MPa
设计标准 Design standard: JB/T 10674-2006
测试标准 Test standard: GB/T 13927-2008
液面控制高度 Height of liquid level control: ≤150mm

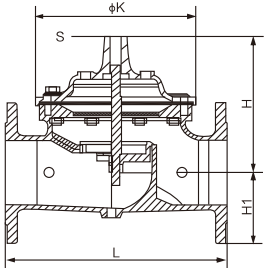
主要材料 Main materials

部件名称 Name of part	选用材料 Material
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膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
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阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
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Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300



工作原理 Working principle

当阀门从进口端给水时，水流流过针阀进入主阀控制室，当电磁导阀打开时，控制室内的水经电磁导阀、球阀流出。球阀开度大于针阀开度，主阀控制室内压力很低，主阀处于全开状态。当电磁导阀关闭时，主阀控制室的水不能流出，控制室升压，推动膜片关闭主阀。

When the valve supplies water from the inlet end, the water flows through the needle valve into the main valve control chamber. When the solenoid valve opens, the water in the control chamber flows out through the solenoid valve and ball valve to the outlets. The opening of the ball valve is greater than the opening of the needle valve, the pressure in the main valve is very low, and the main valve is fully open. When the solenoid valve is closed, the water in the control chamber of the main valve cannot flow out. The pressure will increase and push the diaphragm to close the main valve.

产品应用及特点 Application and feature of product

功能 Function:
遥控开关管理系统，阀门关闭速度可调。
Remote switch piping system, valve closing speed can be adjusted.

应用领域 Applicable sites:
建筑、水处理等。
Building, water treatment and etc.

产品特点 Product feature:
1、启闭无摩擦 No friction during the open and close
2、上装式结构 Top assemble structure
3、密封性能可靠 Reliable sealing
4、操作方便 Easy to operate
5、适用范围广 Wide application

技术参数 Specifications
公称通径 DN: DN50~DN600
公称压力 PN: PN16、PN25
适用温度 Applicable temperature: 0℃~80℃
适用介质 Applicable medium: 清水Clear water
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设计标准 Design standard: JB/T 10674-2006
测试标准 Test standard: GB/T 13927-2008
液面控制高度 Height of liquid level control: ≤150mm

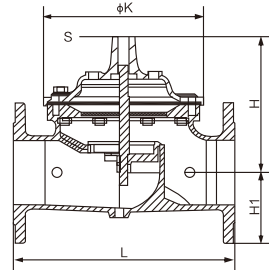
主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
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膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
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阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
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S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300



工作原理 Working principle

当主阀进出口间压差变化时，导阀两端的压差发生变化，导阀开度发生变化，压差大时导阀开度大，控制室的泄水量增大，主阀控制室压力下降，主阀开度增大，主阀进出口间压差变小。反之，主阀进出口间压差变小，则导阀开度变小，主阀控制室压力上升，推动主阀开度减小而使主阀压差增大。这种负反馈作用使主阀进出口间压差稳定在设定值上。设定针阀开度和导阀弹簧压力可设定主阀进出口间压差。

When the pressure difference between the inlet and outlet of the main valve changes, the pressure difference at both ends of the guide valve changes, the opening of the guide valve changes, when the pressure difference is large, the opening of the guide valve is large, the discharge from control chamber increases, the pressure of the control chamber of the main valve decreases, the opening of the main valve increases, and the pressure difference between the inlet and outlet of the main valve becomes smaller. On the contrary, the pressure difference between the inlet and outlet of the main valve becomes smaller, the opening of the guide valve becomes smaller, the pressure of the control room of the main valve rises, and the opening of the main valve decreases to make the pressure difference of the main valve increases. This negative feedback effect stabilizes the pressure difference between the inlet and outlet of the main valve at the set value. The opening degree of needle valve and the spring pressure of the guide valve can set the pressure difference between the inlet and outlet of the main valve.

产品应用及特点 Application and feature of product

功能 Function:
可提高系统的利用率，保持压差的精确恒定值，并可最大限度的降低系统的噪音，以及过大压差对设备造成的损坏。

It can improve the efficiency of the system, maintain the precise constant value of the pressure difference, and minimize the noise of the system, and the damage caused by excessive pressure difference to the equipment.

应用领域 Applicable sites:

建筑、水处理等。
Building, water treatment and etc.

产品特点 Product feature:

- 1、启闭无摩擦 No friction during the open and close
- 2、上装式结构 Top assemble structure
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阀杆 Stem	2Cr13
阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
O型圈压板 O Gland of ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	400	500	600
L	230	290	310	350	350	480	600	730	850	850	1100	1100	1250	1450
H	139	159	179	214	214	333	407	476	526	526	624	624	720	835
H1*	85	95	102	112	127	145	172	205	323	262	292	325	360	425
ΦK	173	198	226	265	265	351	436	524	606	606	741	741	1002	1308
S	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1 1/2"	1 1/2"	2"	2"
Weight (Kg)	14	19	23	32	45	68	125	200	260	310	560	620	880	1300

系列产品介绍 Introduction to serial products

随着现代高层建筑和水司界的不断发展，以及各用户使用要求越来越高，我公司结合实际情况，在一代水力控制阀的基础上成功研制出第二代双控室多功能水力控制阀。它可根据使用环境的不同，在使用前人为一次性调节之后，均能自动保证管网的安全运行，阀体采用流线型设计，所有铸件均采用去锈喷塑处理，所有活动件均采用防腐材料，外部所有导管和导阀都采用全铜或不锈钢材料，组装好之后的阀门无须再喷漆处理。所有与介质接触表面都具有较好的防腐性。通过改变外部导阀和导管的接合形式，从而可演变成水位控制阀、减压阀、消声消锤/缓开/缓闭止回阀、安全泄压阀、电动遥控阀等。根据使用介质和压力的不同我公司生产的有活塞式和膜片式两种供用户选用。

该类阀门的主要特点是利用管道内的自身压力。通过上下腔控制室的压力差来控制主阀盘的启闭，从而达到目的。

With the continuous development of modern high-rise buildings and water utilities, as well as the increasing requirements of users, our company successfully developed the second generation of double control chambers multi-functional hydro control valves on the basis of the first generation and consider with actual situations. It can ensure the safety of the pipeline automatically according to the different environment, after one time setting before use. valve body is with stream line design, all casting part are with rust removing and plastic spray treatment, all motion parts are using anti corrosion materials, all external catheters and guiding valves are using full copper or stainless steel materials, the valve does not need to spray paint after assembling. All surfaces in contact with medium are good at anti-corrosive. By changing the joint form of external guide valve and catheter, it can be developed into water level control valve, pressure reducing valve, Non-slam check valve, safety pressure relief valve, electric remote valve, and etc. According to different medium and pressure, our company produces piston type and diaphragm type to choose for the users.

The main features of this type of valve are utilizing the own pressure in the pipe, and pressure difference between upper and lower control chamber to control the opening and closing of main valve disc to realize its function.

应用标准 Applicable Standards

质量保证 Quality guarantee: ISO9000
设计标准 Design standard: Q/YF-200
结构长度 Structural Length: Q/BYL-2002
法兰标准 Flanges standard: GB/T 17241.6、
API598、GB/T9113
试验标准 Test standards: GB/T 13927

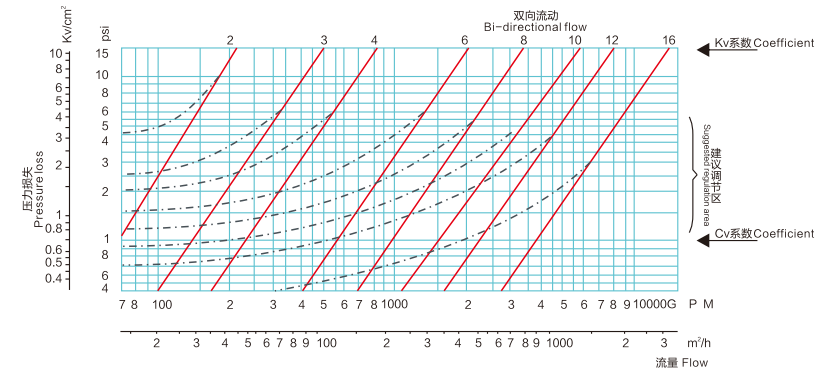
应用标准 Applicable Standards

公称压力PN(MPa)	1.0	1.6	2.5
强度试验(MPa) Testing pressure	1.5	2.4	3.8
密封试验(MPa) Sealing test	1.1	1.76	2.75
气密封试验(Bar) Air tightness test	6	0.6	0.6
工作温度℃ Working temperature	<80℃		
适用介质 Applicable Medium	水及物理、化学性质类似于水的介质 Water, and other medium with similar physical and chemical properties as water		

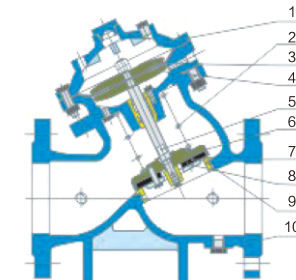
特点及优点 Features and advantages

- ★具有缓开功能，可解决传统的人为关阀开泵
With the slow open function, can resolve the problem on the manually valves opening and pump on
- ★具有缓闭功能，可人为调设关闭时间，自动实现缓闭、消除水锤
With the slow closing function, it can adjust the closing time to realize the slow closing and eliminate water hammer automatically
- ★具有良好的止回功能，采用具有很好弹性和高耐磨性橡胶做密封材料，关闭后可达到滴水不漏。
With good check function, with good elasticity and high wear resistance rubber as sealing material, after closing can be tight.
- ★动作灵敏，不会出现失控现象
Sensitive motion, never lost control
- ★无须人为操作，在管网动行的全过程中均为自动工作。
No need to manually operation, all the process and motions in the pipeline are automatic
- ★维修保养方便，无需从管道上整台拆除阀，在修理时找准故障原因，只需局部检修。
Easy to maintain, During repair and diagnose faults, no need to dismantle the whole set of valve from the pipeline, just need to remove some parts
- ★该阀内外及所有易腐蚀件均采用静电喷塑处理，长期用于污水中不会生锈。
All the easy corroded parts inside and outside of the valve are with static plastic spray treatment, will not get rust in the sewage
- ★在管路中立卧安装均可性能不变。
Can be install both vertically and horizontally in the pipeline not difference on reliability.

主阀流量曲线图 Curve diagram of main valve

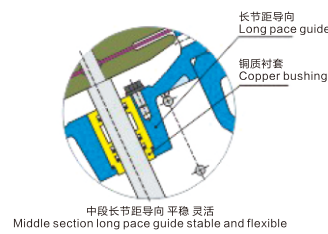
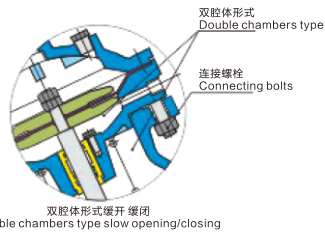


结构简图 Simple structural drawing



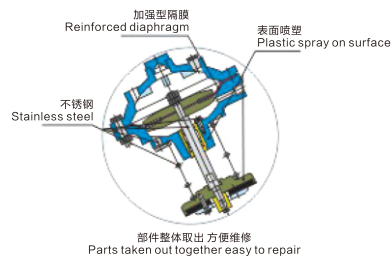
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
2	弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
3	膜片压板 Diaphragm gland	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
4	膜片 Diaphragm	丁腈尼龙强化橡胶、三元乙丙尼龙强化橡胶 Nitrile nylon reinforced rubber, EPDM nylon reinforced rubber
5	阀杆 Stem	2Cr13
6	阀盘 Disk	灰铸铁、球墨铸铁、碳钢、铜、不锈钢 Gray cast iron, ductile cast iron, carbon steel, brass, stainless steel
7	O型密封圈 O Sealing ring	丁腈橡胶、三元乙丙橡胶 Nitrile rubber, EPDM rubber
8	O型圈压板 O Gland of ring	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
9	阀座 Seat	铜合金、不锈钢 Copper alloy, stainless steel
10	阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel



为了更有效地防止水锤的产生，第二代隔膜式水力控制阀将控制室设计成双腔体形式。根据不同用途可以将两个腔室彼此隔离或相通，以实现缓开、缓闭或速闭等辅助功能。在一定程度上阻碍水锤的产生或缓解水锤的力度，保护阀后的其他设备不受损坏。除此之外，阀盖与上腔室连为一体，使得阀盖、上腔室、阀杆、阀盘成为整体，只要松开阀体上的连接螺栓，即可将其一并取出，方便维修及更换易损件。

In order to prevent the water hammer-hammer more effectively, the second generation diaphragm type hydro control valve is within double chambers design on the control chamber According to different uses, the two chambers can be isolated or connected to each other to realize some auxiliary functions such as slow opening, slow closing or quick closing. It can prevent water hammer or relieve the strength of water hammer, protect other equipment after the valve from damage of water hammer. In addition, the bonnet is connected with the upper chamber together, so that the bonnet, upper chamber, stem and disc are integrated. They can be taken out together just after unfasten the bolts on the body, the maintenance and replacement of are easy.



第二代隔膜式水力控制阀的阀盖、上腔室、阀杆、阀盘可整体取出，方便维修及更换橡胶密封面、O环等易损件。阀盖与上腔室之间的隔膜采用尼龙网布加强型橡胶隔膜，耐剪切应力，使用安全可靠。

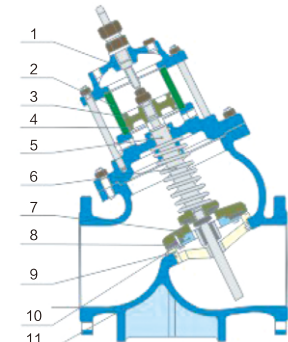
The bonnet, upper chamber, valve stem and valve disc of the second generation diaphragm hydro control valve can be taken out as a whole, convenient maintenance and replacement of rubber sealing surface, O ring and other easy damage parts. The diaphragm between the bonnet and the upper chamber is made of nylon mesh reinforced rubber diaphragm, which is shear stress resistant and safe and reliable for use.

第二代隔膜式水力控制阀的内件，包括上腔室、阀杆、阀盘、弹簧、螺栓等，除了不锈钢件以外都进行了无毒喷塑处理，具有良好的防锈功能。

The trim of the second generation of diaphragm hydro control valve, including the upper control chamber, stem, disc, spring, bolts, etc., all parts are with non-toxic spray plastic treatment except stainless steel part, with good anti-corrosion property.



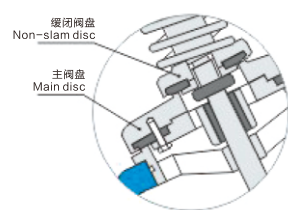
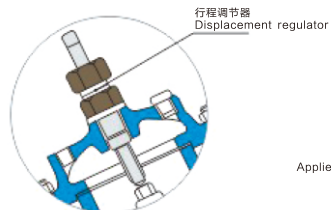
BYH103X活塞式遥控球阀 Piston type remote floating ball valve
BYH104X活塞式可调减压稳压阀 Piston type Pressure relief/Pressure holding valve
BYAX107X活塞式安全泄压/持压阀 Piston type safety pressure discharging/holding valve
BYH108X活塞式电动遥控阀 Piston type remote electric valve



BYDS 101/201X 活塞式多功能水泵控制阀
Piston type multi-functional pump control valve

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
2	缸套 Cylindersleeve	不锈钢 Stainless steel
3	活塞 Piston	球墨铸铁 Ductile cast iron
4	密封圈 Sealing ring	丁腈橡胶 Nitrile rubber
5	阀杆 Stem	2Cr13
6	弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
7	阀盘 Disk	球墨铸铁 Ductile cast iron
8	密封垫 Gasket	丁腈橡胶 Nitrile rubber
9	阀座 Seat	不锈钢 Stainless steel
10	密封压板 Sealing gland	球墨铸铁 Ductile cast iron
11	阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel



在该阀顶部设有行程调节装置可根据管道压力、流量的大小调节主阀盘的开启高度，从而可达到最佳的使用效果。在此位置可设置开度指示装置或信号反馈装置。

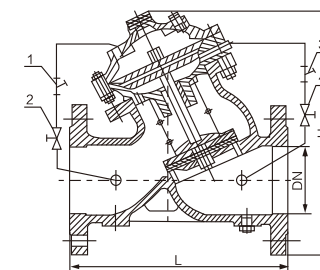
On the top of the valve, there is a displacement regulator can adjust the opening height of the main valve disc according to the pressure and flow rate of the pipe, to achieve the best effect. An opening indicator or a signal feedback device may be installed in this position.

H103X采用小活塞缸式，摩擦力小，运动灵活，关闭时间可在3-60秒，任意调节。

H103X adopts a small cylinder with low friction and flexible motion. The closing time can be adjusted from 3 to 60 seconds.

该阀采用主密封结构，主密封阀盘随介质的压力的大小自动打开和关闭。副密封阀盘受控制室介质的影响，随水锤峰值到达时间的长短自行关闭，从而消除水击现象。

The valve adopts a main and auxiliary sealing structure. The main sealing valve disc automatically opens and closes according to the pressure of the medium. The auxiliary sealing valve disc is affected by the medium in the control chamber and closes automatically according to the length of time when the peak of water hammer reaches, to eliminate the water hammer phenomenon.



1、过滤器 2、小球阀 3、过滤器 4、小球阀
1. Strainer 2. Small ball valve 3. Strainer 4. Small ball valve

工作原理 Working principle

水泵开启时，进水压力作用在滑盘下面，同时进水压力通过进口侧小球阀和小过滤器也进入隔膜的下端，使阀门缓缓开启，防止产生开泵水锤。停泵时，滑盘在自重及弹簧的作用下，先快速关闭90%防止水倒流，防止产生停泵水锤，剩下的10%由出口端的介质通过小球阀和小过滤进入隔膜的上方，关闭速度减慢生产一个级冲过程，防止压力聚增，达到静音关闭。

When the water pump is turned on, the water inlet pressure acts on the bottom of the slide plate, at the same time, the water inlet pressure also enters the bottom of the diaphragm through the small ball valve and small strainer on the inlet side, causing the valve to open slowly to prevent water hammer when the pump is turned on. When the pump is stopped, the slide plate, under the motion of its own weight and spring, first quickly closes 90% to prevent back flow and prevent water hammer when the pump is stopped. The remaining 10% is passed by the medium at the outlet end to enter the top of the diaphragm through the small ball valve and small strainer. The closing speed reduces to form a buffering process, preventing pressure fast accumulation and realize silent closing.

产品应用及特点 Application and feature of product

- 1、消除水锤效果好。将缓开、速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。
Good effect in water hammer eliminating. The technical principle of slow opening and fast closing to eliminate water hammer is integrated to prevent the occurrence of water hammer when start the pump and stop the pump.
- 2、操作方便。只需操作水泵电机启闭按钮，阀门即按照水泵操作规程实现自动开闭。节能效果好。阀体采用了全通道流线型直流式设计。
Easy to operate. Just operate the start button for water pump motor, and the valve will automatically open and close according to the water pump operating procedures. Good energy saving effect. The body adopts a full-channel streamlined direct current design.
- 3、压力损失小、流量大、具体积小、重量轻。
Small pressure lost, big flow rate, small size and light weight.
- 4、阀门采用双室传动机构，分成两个不同的压力室其特点是：平稳的止水关闭，而不产生压力波动。另外，整个传动机构可作为一个整体拆卸，而不用拆掉隔膜，从而便于检查。
The valve adopts dual-chamber transmission mechanism, divided into two different pressure chambers. Its characteristics are: stable water stop closing without pressure fluctuations. In addition, the entire transmission mechanism can be disassembled as a whole, no need to remove the diaphragm, easy to inspect.

技术参数 Specifications

- 公称压力 PN: 1.0MPa、1.6 MPa、2.5 Mpa
- 适用介质 Applicable medium: 原水、清水、油及性质接近水的液体
Water, and other medium with similar physical and chemical properties as water
- 介质温度 Applicable temperature: 0°C~80°C
- 动作压力 Motion pressure: ≤ 0.05 MPa
- 缓闭时间 Closing time: 3~60s(可调Adjustable)
- 水锤峰值 Water hammer peak: ≤ 1.3 倍工作压力 1.3 times of working pressure
- 水泵最高反转速度 Max reversing speed of pump: ≤ 1.2 倍水源额定转速 Times of rated rotation speed,
- 阻力损失 Resistance lost: 比旋启式止回阀减少 less than swing check valve
- 结构形式 Structure: 膜片式 Diaphragm type

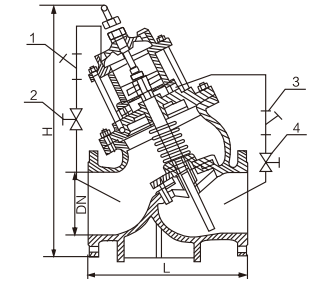
主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
膜片压板 Diaphragm gland	球墨铸铁 Ductile cast iron
膜片 Diaphragm	丁腈橡胶 Nitrile rubber
阀杆 Stem	2Cr13
阀瓣 Disk	球墨铸铁 Ductile cast iron
密封圈 Sealing ring	丁腈橡胶 Nitrile rubber
密封垫压板 Gasket gland	球墨铸铁 Ductile cast iron
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阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
L	205	216	250	320	365	415	500	605	698	787	914	978	978	1150	1300	1450	1650	1800
H	293	328	364	418	481	543	673	792	927	957	1190	1220	1256	1600	2000	2300	2600	2700



1、过滤器 2、小球阀 3、过滤器 4、小球阀
1.Strainer 2. Small ball valve 3. Strainer 4. Small ball valve

工作原理

Working principle

水泵开启时，进水压力作用在滑盘下面，同时进水压力通过进口侧小球阀和小过滤器也进入隔膜的下端，使阀门缓缓开启，防止产生开泵水锤。停泵时，滑盘在自重及弹簧的作用下，先快速关闭90%防止水倒流，防止产生停泵水锤，剩下的10%由出口端的介质通过小球阀和小过滤进入隔膜的上端，关闭速度减慢生产一个级冲过程防止压力聚增，达到静音关闭。

When the water pump is turned on, the water inlet pressure acts on the bottom of the slide plate, meanwhile, the water inlet pressure also enters the bottom of the diaphragm through the small ball valve and small strainer on the inlet, makes the valve to open slowly and prevent water hammer when the pump starts. When the pump is stopped, the slide plate, under the action of its own weight and spring, first quickly closes 90% to prevent water backflow and prevent water hammer when the pump is stopped. The remaining 10% is passed by the medium at the outlet end to enter the top of the diaphragm through the small ball valve and small strainer. The closing speed reduces to form a buffing process, preventing pressure fast accumulation and realize silent closing.

产品应用及特点

Application and feature of product

1、消除水锤效果好。将缓开、速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。

Good effect in water hammer eliminating . The technical principle of slow opening and fast closing to eliminate water hammer is integrated to prevent the occurrence of water hammer when start the pump and stop the pump.

2、操作方便。只需操作水泵电机启闭按钮，阀门即按照水泵操作规程实现自动开闭。

Easy to operate. Just operate the start button for water pump motor , and the valve will automatically open and close according to the water pump operating procedures.

3、节能效果好。阀体采用了全通道流线型直流式设计，压力损失小、流量大、具体积小、重量轻。

Good energy saving effect. The body adopts a full-channel streamlined direct current design. Small pressure lost, big flow rate, small size and light weight.

4、阀门采用双室传动机构，分成两个不同的压力室，其特点是:平稳的止水关闭，而不产生压力波动。另外，整个传动机构可作为一个整体拆卸，而不用拆掉隔膜，从而便于检查。

The valve adopts dual-chamber transmission mechanism, divided into two different pressure chambers. Its characteristics are: stable water-stop closing without pressure fluctuations. In addition, the entire transmission mechanism can be disassembled as a whole, no need to remove the diaphragm, easy to inspect.

技术参数

Specifications

公称压力 PN: 1.0MPa、1.6 MPa、2.5 Mpa

适用介质 Applicable medium:

原水、清水、油及性质接近水的液体

Water, and other medium with similar physical and chemical properties as water

介质温度 Applicable temperature:0℃~80℃

动作压力 Motion pressure:≤0.05MP

缓闭时间 Closing time:3~120s(可调Adjustable)

水锤峰值Water hammer peak:

≤1.3倍工作压力1.3 times of working pressure

水泵最高反转速度 Max reversing speed of pump:

≤1.2倍水源额定转速 times of rated rotation speed,

阻力损失 Resistance lost:

比旋启式止回阀减少31% less than swing check valve

结构形式 Structure: 活塞式 Piston type

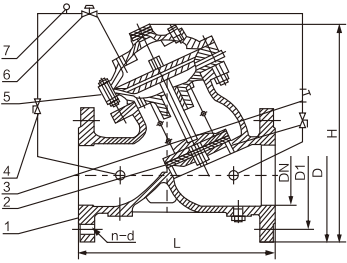
主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
弹簧 Spring	弹簧钢、不锈钢 Spring steel, stainless steel
膜片压板 Diaphragm gland	球墨铸铁 Ductile cast iron
膜片 Diaphragm	丁腈橡胶 Nitrile rubber
阀杆 Stem	2Cr13
阀瓣 Disk	球墨铸铁 Ductile cast iron
密封圈 Sealing ring	丁腈橡胶 Nitrile rubber
密封垫压板 Gasket gland	球墨铸铁 Ductile cast iron
阀座 Seat	不锈钢 Stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
L	205	216	250	320	365	415	500	605	698	787	914	978	978	1150	1300	1450	1650	1800
H	293	328	364	418	481	543	673	792	927	957	1190	1220	1256	1600	2000	2300	2600	2700



1、主阀 2、铜球阀 3、铜过滤器 4、铜球阀 5、双室隔膜传动机构 6、减压导阀 7、压力表
1. Main valve, 2. brass ball valve, 3. brass strainer, 4. brass ball valve, 5. Dual chamber diaphragm transmission device, 6. pressure reducing guide valve, 7. pressure gauge

工作原理
Working principle

主阀安装在给水系统的管道上，主阀滑盘(阀瓣)通过液压导管的压力传递，模仿导阀的动作。当下游压力低于设定压力时，导阀开启，隔膜上方的压力水被排放到下游，排放速度大于入口的补充速度主阀滑盘上移使下游压力增大至设定值。当下游压力高于设定值时，导阀关闭，隔膜上方的压力水向下作用在隔膜上，主阀滑盘向下移动，使下游压力降低至设定值，从而保持压力恒定。

The main valve is installed on the water supply pipeline. The main valve slide disc (valve disc) moves as a guide valve through pressure transmission in hydraulic conduit. When the pressure in downstream is lower than the set pressure, the guide valve opens, and the water above the diaphragm is discharged to the downstream. The discharge speed is greater than the supply speed from the inlet. The slide disc of main valve moves up to increase the downstream pressure to the set value. When the downstream pressure is higher than the set value, the guide valve closes, and the water above the diaphragm acts downward on the diaphragm. The main valve slide disc moves downward, reducing the downstream pressure to the set value, thereby maintaining a constant pressure.

产品应用及特点
Application and feature of product

1、减压的效果可靠，出口压力不受进口压力及流量的影响，即减动压，又减静压，能够保持设定的出口压力恒定。The pressure reduction effect is reliable, and the outlet pressure is not affected by the inlet pressure and flow rate, which can reduce both dynamic pressure and static pressure, and can keep the set outlet pressure constantly.

2、调压操作方便，只需调节先导阀的调节螺钉，就能获得精确稳定的出口压力。The operation is convenient. You only need to adjust the screw of the guild valve to get accurate and stable outlet pressure.

3、节能效果好，阀体采用了全通道流红型直流式设计，压力损失小、流量大、体积小、重量轻。Good energy saving effect. The body adopts a full-channel streamlined direct current design. Small pressure lost, big flow rate, small size and light weight.

4、寿命长，重要零件均采用特殊材料，基本无须维护，使用寿命长。Long life span, special materials for import parts, almost no need to maintain.

技术参数
Specifications

公称压力 PN: 1.0MPa、1.6 MPa、2.5 Mpa
适用介质 Applicable medium:
原水、清水、油及性质接近水的液体
Water, and other medium with similar physical and chemical properties as water
介质温度 Applicable temperature:0℃~80℃
动作压力 Motion pressure:≤0.05MPa
缓闭时间 Closing time:3~60s(可调Adjustable)
水锤峰值Water hammer peak:
≤1.3倍工作压力1.3 times of working pressure
水泵最高反转速度 Max reversing speed of pump:
≤1.2倍水源额定转速 times of rated rotation speed,
阻力损失 Resistance lost:
比旋启式止回阀减少31% less than swing check valve
结构形式 Structure: 膜片式 Diaphragm type

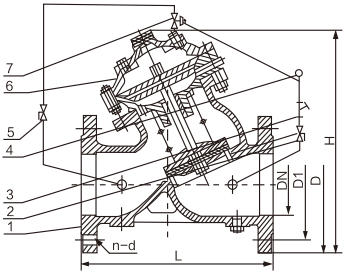
主要材料 Main materials

部件名称 Name of part	选用材料 Material
阀盖 Bonnet	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel
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阀瓣 Disk	球墨铸铁 Ductile cast iron
密封圈 Sealing ring	丁腈橡胶 Nitrile rubber
密封垫压板 Gasket gland	球墨铸铁 Ductile cast iron
阀座 Seat	不锈钢 Stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

单位: mm

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1、主阀 2、铜球阀 3、铜过滤器 4、压力表 5、铜球阀 6、双室隔膜传动机构 7、泄压导阀
1. Main valve 2. brass ball valve 3. brass strainer 4. pressure gauge 5. brass ball valve 6. Dual chamber diaphragm transmission device 7. pressure relief guide valve

工作原理
Working principle

通过液压导管的压力传递，使主阀滑盘(阀瓣)模仿导阀的动作。只要上游压力低于导阀的设定值，导阀关闭，上游压力作用在隔膜上方，使主阀保持关闭。一旦上游压力升至超过导阀的设定压力，导阀就会开启，泄放隔膜上方的压力水，主阀开启，大量泄水降压至设定值才缓慢平稳关闭，不产生二次水锤。

The pressure is transmitted through the hydraulic conduit, so that the main valve slide disc (valve disc) can move as the guide valve. As long as the upstream pressure is lower than the set value of the guide valve, the guide valve is closed, and the upstream pressure acts on the diaphragm to keep the main valve closed. Once the upstream pressure rises to exceed the set pressure of the guide valve, the guide valve will open, release the water above the diaphragm, and the main valve will open. A large amount of water will be released to reduce the pressure to the set value before it closes slowly and smoothly, without generating secondary water hammer.

产品应用及特点
Application and feature of product

1.能准确的保持不变的安全设定压力，一旦超压，泄压阀迅速打开，及时泄压。
Keep the set pressure constantly, once the pressure exceeds, the pressure relief valve will open quickly, and relieve pressure on time.

2.关闭平稳可靠，消除压力余波，消除水锤。
Stable and reliable closing, eliminate surplus pressure and water hammer.

技术参数
Specifications

公称压力 PN: 1.0MPa、1.6 MPa、2.5 Mpa
适用介质 Applicable medium:
原水、清水、油及性质接近水的液体
Water, and other medium with similar physical and chemical properties as water
介质温度 Applicable temperature:0℃~80℃
动作压力 Motion pressure:≤0.05MPa
缓闭时间 Closing time:3~60s(可调Adjustable)
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水泵最高反转速度 Max reversing speed of pump:
≤1.2倍水源额定转速 times of rated rotation speed,
阻力损失 Resistance lost:
比旋启式止回阀减少31% less than swing check valve
结构形式 Structure: 膜片式 Diaphragm type

主要材料 Main materials

部件名称 Name of part	选用材料 Material
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阀杆 Stem	2Cr13
阀瓣 Disk	球墨铸铁 Ductile cast iron
密封圈 Sealing ring	丁腈橡胶 Nitrile rubber
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阀座 Seat	不锈钢 Stainless steel
阀体 Body	灰铸铁、球墨铸铁、碳钢、不锈钢 Gray cast iron, ductile cast iron, carbon steel, stainless steel

主要连接尺寸 Main connection size

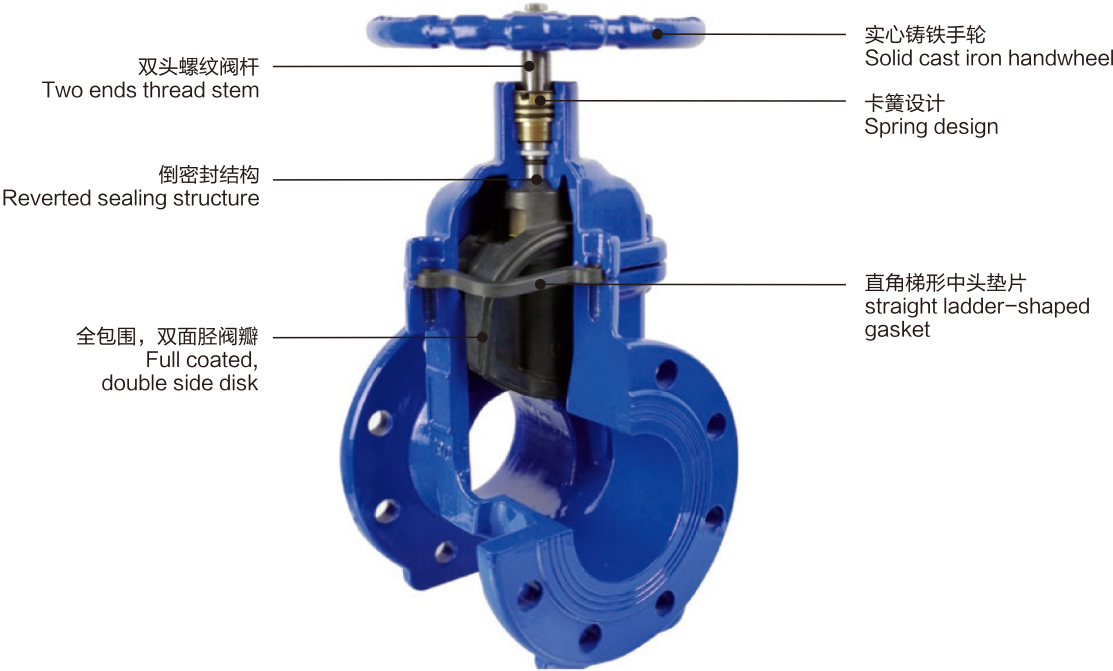
单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
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H	293	328	364	418	481	543	673	792	927	957	1190	1220	1256	1600	2000	2300	2600	2700

主阀流量曲线图 Curve diagram of main valve

长期以来市场上使用的一般闸阀，普遍存在漏水，易生锈现象，本企业引进国内外先进技术所生产的软密封闸阀，克服了一半闸阀密封性差，弹性疲乏，易生锈等缺陷，软密封闸阀是传统闸阀的换代产品，利用弹性闸板产生微量变形的补偿作用，达到良好的密封效果，该阀具有开关轻巧，密封可靠，弹性记忆佳及使用寿命长等显著优点，可广泛应用与自来水、污水、建筑、食品、电力、医药、冶金、轻纺、能源系统等流体管线上作为调节和节流装置使用。

For a long time, the gate valves used in the market are commonly leaking and easy to get rust. The soft sealed gate valves produced by our company are adopted advanced technologies from domestic and foreign , which overcomes half of the defects of gate valves such as poor sealing, elastic fatigue, and easy to get rust. This kind of soft sealed gate valve is an alternative of the traditional ones. It uses the elastic gate plate to compensate for slight deformation and achieve a good sealing effect. The valve has significant advantages such as easy to operate, reliable sealing, good elastic memory and long life span. It can be widely used in It is used as a regulating and throttling device in pipelines such as tap water, sewage, construction, food, power, medicine, metallurgy, textiles, and energy systems.



特点 Features

平底式闸座、全通径 Flat-bottom valve seat, full bore

传统的闸阀往往在通水洗管后即因外物诸如石头、木块、水泥、铁屑、杂物等淤积于阀底凹槽内，容易造成无法关闭严密而形成漏水现象，弹性座封闸阀底部采用与水管相同的平底设计，不易造成杂物淤积，使流体畅通无阻。通道流量口大于口径，可满足开孔需要。

Some foreign objects such as stones, wood, cement, iron filings, and debris settled in the groove at the bottom of the valve for traditional gate valves, after water is passed through the pipe for washing, which can easily cause leakage due to fail to close tightly. The bottom of the resilient seat sealed gate valve adopts the same flat bottom design as the water pipe, which is not easy to cause debris sediment and allows the fluid to flow unimpeded. The bore is larger than the size of pipe, can meet the requirement to open holes.

闸板整体包胶、双筋结构 Full rubber coated gate, double rib structure

闸板上端采用全包围的结构，螺母固定的稳定性更优，闸板两侧是双筋结构，闸板宽，单边压力偏移量小，扭力轻，静压测试可做到双向密封，静压无泄漏；内腔变形，可进行弥补。

The upper end of the disc adopts a fully enclosed structure, the nuts are more stable, the two sides of the disc are double-rib structure, the disc is wide, the offset from unilateral pressure is small, the torque is light, and can do double sides sealing test for the static pressure test no leakage on the static test, the deformation of the inner cavity can be compensated.

新型闸杆密封结构 New type of stem sealing structure

铜螺母内旋于阀盖，内侧2道、外侧2道“O”型圈，闸杆一道“O”型圈，绝佳的密封性能，有效的减少闸杆磨损及防止泄漏。The copper nuts are screwed inside the bonnet, with 2 "O" rings on the inside and 2 on the outside, and one "O" ring on the valve stem, which has excellent sealing performance and effectively reduces valve stem wear to prevents leakage.

有助生饮 Good hygiene

所有的产品喷塑采用经过WARS认证的无毒环氧塑粉，每一台产品均可以通过安全饮用水认证，可供生饮。

All products are sprayed with non-toxic epoxy plastic powder certified by WARS. Each product can pass the safe certification on drinking water and can be drunk directly.

耐腐蚀 Anti-corrosion

阀体采用粉末环氧树脂涂装，可防止阀体的腐蚀与生锈，并可用于污水系统。

The body is with epoxy plastic powder painting, and prevent corrosion and rust, suitable for sewage

不易碎裂 Solid strength

以往传统铸铁闸阀常因外物击中，碰撞或重叠而造成断裂等现象。由于本体改用球墨铸铁，此种情形

The traditional gate valves are easy to crack caused by impact, crush, or pile stock, our valves apply high quality ductile cast iron to avoid crack.

精铸阀体 Precision casting body

阀体采用精密铸造，精确的几何尺寸使得阀体内部无需任何精加工即可保证阀门的密封性。

The body is adopted precision casting, the precision dimension of the cavity of the body can ensure the sealing without any further machining

重量轻 Light weight

本体采用球墨铸造制成，重量较传统闸阀重量减轻约20%~30%，安装维修方便。

The main body is made of ductile casting iron, the weight is about 20%~30% lighter than traditional gate valves and is easy to install and maintain.



Z41X(RRHX)
Rising stem



Z45X(RVHX)
Hand wheel



Z45X(RVCX)
With square cap



Z945X(RVEX)
Electric actuator



Z945X(RVEX)
Electric actuator



Z545X(RVHX)
Bevel gear



Z45X
Hand wheel



Z445X
Spur gear



ZSXF-Z
Signal opening indicator



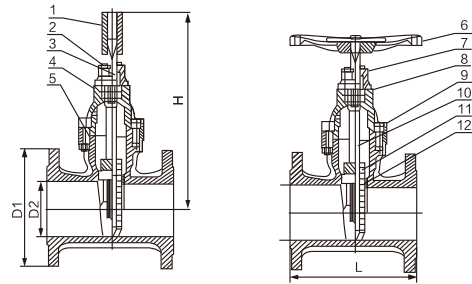
Z85X(GVGX)
Clamp and hand wheel



Z81X(GVGR)
Clamp and rising stem



ZSZF
Rising stem



工作原理
Working principle

弹性座封闸阀又叫升降杆闸阀。通常在升降杆上有梯形螺纹，通过阀门顶端的螺母以及阀体上的导槽，将旋转运动变为直线运动，也就是将操作转矩变为操作推力。开启阀门时，当闸板提升高度等于阀门通径的1:1倍时，流体的通道完全畅通。
The resilient seat gate valve is also called the lifting stem gate valve. Usually there is a trapezoidal thread on the stem. Through the nut at the top of the valve and the guide groove on the valve body, the rotary motion is converted into linear motion, that is, the operating torque is converted into operation thrust. When the valve is opened, when the gate lift height is equal to the valve diameter, the fluid passage is completely through.

产品应用及特点
Application and feature of product

功能 Functions:
可广泛用于自来水、污水、建筑、石油、化工、食品、医药、轻纺、电力、船舶、冶金、能源系统等流体管线上作为调节和截流装置使用。
It can be widely used as a regulating and throttling device in pipelines such as tap water, sewage, construction, petroleum, chemical industry, food, medicine, textile, power, shipbuilding, metallurgy, energy system, etc.

特点 Features:
Z45X弹性座封闸阀有灵敏、可靠、安装方便等特点。
Z45X resilient seat gate valve has features such as flexible, reliable, easy to install.

技术参数 Specifications
公称通径 DN: DN50mm~DN600mm
公称压力 PN: 1.0MPa~2.5Mpa
工作温度 Working temperature: 0℃~120℃
适用介质 Applicable Medium: 水、油、气等 Water, oil, gas, etc
法兰标准 Flanges standard: GB/T17241.6、GB9113
试验标准 Test standards: GB13927、API598

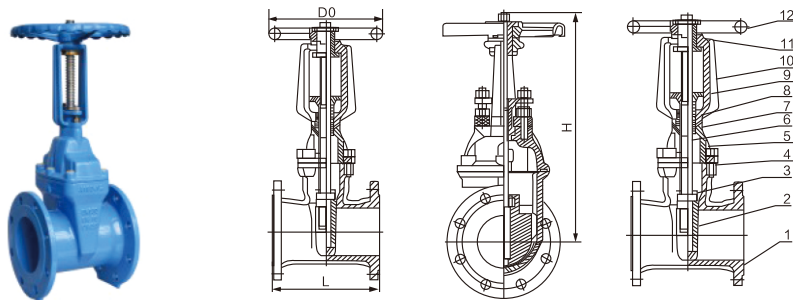
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	传动帽 Transmission cap	球墨铸铁 ductile cast iron,
2	防尘帽 Dust proof cap	球墨铸铁 ductile cast iron,
3	O型圈 O ring	NBR
4	阀盖 Bonnet	NBR
5	阀体 Body	球墨铸铁 ductile cast iron
6	手轮 Handwheel	球墨铸铁 ductile cast iron
7	轴盖 Axle cover	球墨铸铁 ductile cast iron
8	止推轴承 Thrust bearing	黄铜、青铜 brass, bronze
9	螺栓 Bolt	35
10	阀杆 Stem	2Cr13
11	铜螺母 Brass nut	黄铜、青铜 bronze, brass
12	阀瓣 Disc	球墨铸铁+EPDM/NBR ductile cast iron

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500
L	GB	178	190	203	229	254	267	292	330	356	381	432	457
	F4	150	170	180	190	200	210	230	250	270	290	310	330
	F5	250	270	280	300	325	350	400	450	500	550	600	700
H		236	238	270	320	378	415	518	620	730	780	930	1180
Do		200	200	220	240	240	280	320	380	420	460	520	600



工作原理
Working principle

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The resilient seat gate valve is also called the lifting stem gate valve. Usually there is a trapezoidal thread on the stem. Through the nut at the top of the valve and the guide groove on the valve body, the rotary motion is converted into linear motion, that is, the operating torque is converted into operation thrust. When the valve is opened, when the gate lift height is equal to the valve diameter, the fluid passage is completely through.

产品应用及特点
Application and feature of product

- 1、关闭严密可靠。采用牢固的橡胶密封环密封，利用液压控制原理，使滑盘关闭力与进水压力成正比，密封可靠性高。
Tight and reliable closing. It uses a strong rubber sealing ring to seal and utilizes the hydraulic control principle to make the closing force of the sliding disc proportional to the water inlet pressure, with high sealing reliability.
- 2、过流量大。阀体采用全通道流线型设计，流体阻力小，流量大。
High flow, the body is adopted full channel streamline design, low flow resistant, big flow
- 3、使用维护方便。主阀安装在水池外面，调试检查方便。维修简单。
Easy to maintain, the valve can be install outside of pool, easy to check and repair

- 技术参数
Specifications
- 公称通径 DN: DN50mm~DN600mm
 - 公称压力 PN: 1.0MPa~2.5Mpa
 - 工作温度 Working temperature: 0℃~120℃
 - 适用介质 Applicable Medium: 水、油、气等 Water, oil, gas, etc
 - 法兰标准 Flanges standard: GBIT17241.6、GB9113
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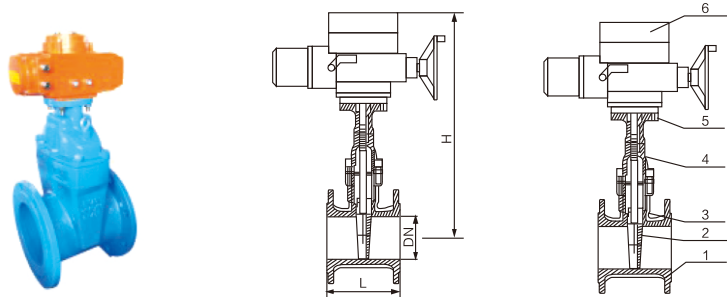
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
2	阀瓣 Disc	球墨铸铁Ductile cast iron+EPDM/NBR
3	螺母 Nut	黄铜 Brass
4	阀杆 Stem	2Cr13
5	螺栓 Bolt	35
6	阀盖 Bonnet	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
7	铜套 Copper sleeve	黄铜 Brass
8	密封圈 Sealing ring	NBR
9	压盖 Gland	WCB
10	支架 Brace	球墨铸铁 Ductile cast iron
11	阀杆螺母 Stem nut	黄铜 Brass
12	手轮 Hand wheel	球墨铸铁: Ductile cast iron

主要连接尺寸 Main connection size

单位: mm

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H		236	238	272	314	372	419	510	639	725	937
Do		200	200	220	240	240	280	320	380	420	520



工作原理
Working principle

弹性座封闸阀又叫升降杆闸阀。通常在升降杆上有梯形螺纹，通过阀门顶端的螺母以及阀体上的导槽，将旋转运动变为直线运动，也就是将操作转矩变为操作推力。开启阀门时，当闸板提升高度等于阀门通径的1:1倍时，流体的通道完全畅通。

The resilient seat gate valve is also called the lifting stem gate valve. Usually there is a trapezoidal thread on the stem. Through the nut at the top of the valve and the guide groove on the valve body, the rotary motion is converted into linear motion, that is, the operating torque is converted into operation thrust. When the valve is opened, when the gate lift height is equal to the valve diameter, the fluid passage is completely through.

产品应用及特点
Application and feature of product

功能 Functions:
可广泛用于自来水、污水、建筑、石油、化工、食品、医药、轻纺、电力、船舶、冶金、能源系统等流体管线上作为调节和截流装置使用。
It can be widely used as a regulating and throttling device in pipelines such as tap water, sewage, construction, petroleum, chemical industry, food, medicine, textile, power, shipbuilding, metallurgy, energy system, etc.

特点 Features:
Z45X弹性座封闸阀有灵敏、可靠、安装方便等。
Z45X resilient seat gate valve has features such as flexible, reliable, easy to install.

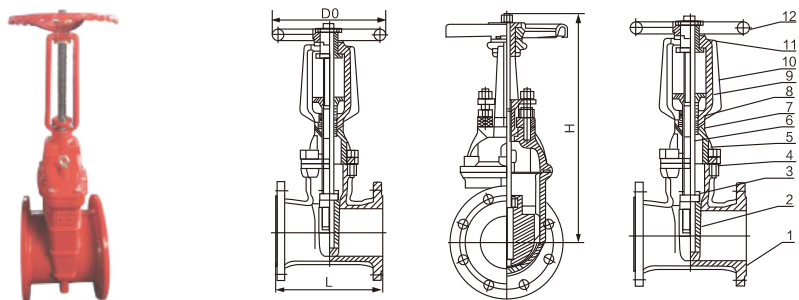
技术参数 Specifications
公称通径 DN: DN50mm~DN600mm
公称压力 PN: 1.0MPa~2.5Mpa
工作温度 Working temperature: 0℃~120℃
适用介质 Applicable Medium: 水、油、气等 Water, oil, gas, etc
法兰标准 Flanges standard: GB/T17241.6、GB9113
试验标准 Test standards: GB13927、API598

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁Ductile cast iron、铸钢Cast steel
2	阀瓣 Disc	球墨铸铁Ductile cast iron+EPDM/NBR
3	阀杆 Stem	2Cr13
4	阀盖 Bonnet	球墨铸铁Ductile cast iron、铸钢Cast steel
5	支架 Holder	球墨铸铁Ductile cast iron、铸钢Cast steel
6	电动装置 Electric actuator	—

主要连接尺寸 Main connection size 单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500
L	GB	178	190	203	229	254	267	292	330	356	381	432	457
	F4	150	170	180	190	200	210	230	250	270	290	310	330
	F5	250	270	280	300	325	350	400	450	500	550	600	700
H		236	238	270	320	378	415	518	620	730	780	930	1180
H1		282	282	282	282	282	267	267	267	267	267	415	415



工作原理
Working principle

消防闸阀关闭时，密封面可以只依靠介质压力来密封，即依靠介质压力将闸板的密封面压向另一侧的阀座来保证密封面的密封，这就是自密封。大部分闸阀是采用强制密封的，即阀门关闭时，要依靠外力强行将闸板压向阀座，以保证密封面的密封性。

When the fire gate valve is closed, the sealing surface can be sealed only by relying on the medium pressure, that is, relying on the medium pressure to press the sealing surface of the gate to the seat on the other side to ensure the sealing of the sealing surface, which is self-sealing. Most gate valves are forced to seal, that is, when the valve is closed, it is necessary to rely on external forces to force the gate to the seat to ensure the tightness of the sealing surface.

产品应用及特点
Application and feature of product

功能 Functions:
消防闸阀常应用于自动喷水消防管路系统，来监控供水管路，可以远地指示阀门开度，如果闸阀安装位置离地面较高时，一般选用升杆式闸阀，可以明显看见阀门开度指示，若安装位置较低。则需选用附开度指示闸阀。Fire fighting gate valves are often used in automatic sprinkler in fire fighting pipeline systems to monitor water supply, and can indicate valve opening remotely. If the gate valve is installed at a higher position from the ground, a rising stem gate valve can be generally used, and the valve opening can be clearly seen. If the installation position is lower, a gate valve with opening indicator must be used.

特点 Features:
在普通弹性座闸阀原有的性能规范增加标尺装置，主要应用于自动喷水消防管路系统，来监控供水管路，可以明确看出阀门开度。
The ruler device is added to the original performance specification of the ordinary elastic seat gate valve, which is mainly used in the automatic sprinkler fire extinguishing pipeline system to monitor the water supply pipeline, and the valve opening can be clearly seen.

技术参数 Specifications
公称通径 DN: DN50mm~DN600mm
公称压力 PN: 1.0MPa~2.5Mpa
工作温度 Working temperature: 0℃~80℃
适用介质 Applicable Medium: 水、油、气等 Water, oil, gas, etc
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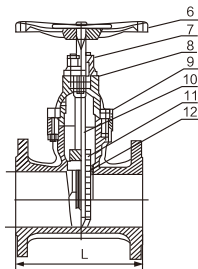
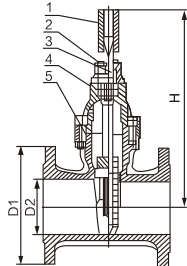
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	传动帽 Transmission cap	球墨铸铁 ductile cast iron,
2	防尘帽 Dust proof cap	球墨铸铁 ductile cast iron,
3	O型圈 O ring	NBR
4	阀盖 Bonnet	NBR
5	阀体 Body	球墨铸铁 ductile cast iron
6	手轮 Handwheel	球墨铸铁 ductile cast iron
7	轴盖 Axle cover	球墨铸铁 ductile cast iron
8	止推轴承 Thrust bearing	黄铜、青铜 brass, bronze
9	螺栓 Bolt	35
10	阀杆 Stem	2Cr13
11	铜螺母 Brass nut	黄铜、青铜 bronze, brass
12	阀瓣 Disc	球墨铸铁+EPDM/NBR ductile cast iron

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400
L	GB	178	190	203	229	254	267	292	330	356	432
	F4	150	170	180	190	200	210	230	250	270	310
	F5	250	270	280	300	325	350	400	450	500	600
H		236	238	272	314	372	419	510	639	725	937
Do		200	200	220	240	240	280	320	380	420	520



工作原理
Working principle

消防闸阀关闭时，密封面可以只依靠介质压力来密封，即依靠介质压力将闸板的密封面压向另一侧的阀座来保证密封面的密封，这就是自密封。大部分闸阀是采用强制密封的，即阀门关闭时，要依靠外力强行将闸板压向阀座，以保证密封面的密封性。

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产品应用及特点
Application and feature of product

功能 Functions:
消防闸阀常应用于自动喷水消防管路系统，来监控供水管路，可以远地指示阀门开度，如果闸阀安装位置离地面较高时，一般选用升杆式闸阀，可以明显看见阀门开度指示，若安装位置较低。则需选用附开度指示闸阀。Fire fighting gate valves are often used in automatic sprinkler in fire fighting pipeline systems to monitor water supply, and can indicate valve opening remotely. If the gate valve is installed at a higher position from the ground, a rising stem gate valve can be generally used, and the valve opening can be clearly seen. If the installation position is lower, a gate valve with opening indicator must be used.

特点 Features:
在普通弹性座闸阀原有的性能规范增加标尺装置，主要应用于自动喷水消防管路系统，来监控供水管路，可以明确看出阀门开度。The ruler device is added to the original performance specification of the ordinary elastic seat gate valve, which is mainly used in the automatic sprinkler fire extinguishing pipeline system to monitor the water supply pipeline, and the valve opening can be clearly seen.

技术参数 Specifications
公称通径 DN: DN50mm-DN600mm
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工作温度 Working temperature: 0℃~80℃
适用介质 Applicable Medium:
水、油、气等 Water, oil, gas, etc
法兰标准 Flanges standard:
GBIT17241.6、GB9113
试验标准 Test standards: GB13927、API598

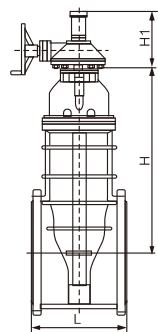
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
2	阀瓣 Disc	球墨铸铁Ductile cast iron+EPDM/NBR
3	螺母 Nut	黄铜 Brass
4	阀杆 Stem	2Cr13
5	螺栓 Bolt	35
6	阀盖 Bonnet	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
7	铜套 Copper sleeve	黄铜 Brass
8	密封圈 Sealing ring	NBR
9	压盖 Gland	WCB
10	支架 Brace	球墨铸铁 Ductile cast iron
11	阀杆螺母 Stem nut	黄铜 Brass
12	手轮 Hand wheel	球墨铸铁 Ductile cast iron

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400
L	GB	178	190	203	229	254	267	292	330	356	432
	F4	150	170	180	190	200	210	230	250	270	310
	F5	250	270	280	300	325	350	400	450	500	600
H		236	238	272	314	372	419	510	639	725	937
Do		200	200	220	240	240	280	320	380	420	520



工作原理
Working principle

弹性座封闸阀又叫升降杆闸阀。通常在升降杆上有梯形螺纹，通过阀门顶端的螺母以及阀体上的导槽，将旋转运动变为直线运动，也就是将操作转矩变为操作推力。开启阀门时，当闸板提升高度等于阀门通径的1:1倍时，流体的通道完全畅通。

The resilient seat gate valve is also called the lifting stem gate valve. Usually there is a trapezoidal thread on the stem. Through the nut at the top of the valve and the guide groove on the valve body, the rotary motion is converted into linear motion, that is, the operating torque is converted into operation thrust. When the valve is opened, when the gate lift height is equal to the valve diameter, the fluid passage is completely through.

产品特点
Product Features

大口径弹性座封闸阀采用最优质的球墨铸铁或碳钢铸造而成，具有强度高、重量轻，几何尺寸精确的特点，闸板具有互换的功能，加装螺旋伞齿轮省力机构，人可非常轻松自如地开关，也可根据用户的要求加装开闭指示柱，或电动、气动执行机构。密封、防锈功能极佳，安全可靠、使用寿命长。可立式卧式安装，此大口径弹性座封闸阀广泛应用于给排水系统、污水处理系统、市政建设及矿山、冶金、电厂等行业。

Big size resilient seat gate valve is made of the best quality ductile iron or carbon steel. It has the properties as high strength, light weight and precise geometric dimensions. The disc is replaceable. A bevel gear mechanism can be installed to make people open and close it easily. It can also be equipped with an open/close indicator column, electric or pneumatic actuator according to the user's requirements. It has excellent sealing and rust-proof functions, the valve is safe and reliable, with long life span. It can be installed both vertically and horizontally. This big size resilient seat gate valve is widely used in water supply and drainage systems, sewage treatment systems, municipal utilities construction, mining, metallurgy, power plants and other industries.

技术参数
Specifications

公称通径 DN: DN500mm~DN1400mm
公称压力 PN: 1.0MPa~2.5Mpa
工作温度 Working temperature: 0℃~120℃
适用介质 Applicable Medium:
水、油、气等 Water, oil, gas, etc
法兰标准 Flanges standard:
GBIT17241.6、GB9113
试验标准 Test standards: GB13927、API598

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
2	阀瓣 Disc	球墨铸铁Ductile cast iron+EPDM/NBR
3	螺母 Nut	黄铜 Brass
4	阀杆 Stem	2Cr13
5	螺栓 Bolt	35
6	阀盖 Bonnet	灰铸铁Gray cast iron、球墨铸铁Ductile cast iron
7	铜套 Copper sleeve	黄铜 Brass
8	密封圈 Sealing ring	NBR
9	压盖 Gland	WCB
10	支架 Brace	球墨铸铁 Ductile cast iron
11	阀杆螺母 Stem nut	黄铜 Brass
12	手轮 Hand wheel	球墨铸铁 Ductile cast iron

主要连接尺寸 Main connection size

单位: mm

DN		500	600	700	800	900	1000	1200	1400
L	GB	457	508	610	660	711	811	960	1080
	F4	350	390	430	470	510	550	630	710
	F5	700	800	900	1000	1100	1200	1400	—
H	Bearing	1048	1208	1390	1594	1594	1860	2270	2620
H1	Spur Gear	350	350	360	360	425	425	425	—

技术参数 Specifications

设计标准参照 Design standard accords to: GB/T 12232-2005
结构长度符合 Structural length accords to: GB/T 12221
法兰连接符合 Flange connection accords to: GB/T 17241.6
试验标准参照 Test standards accords to: GB 13927
工作压力 Working pressure: PN10/PN16/PN25
口径范围 Size range: DN50mm~DN300mm
操作方式 Operation: 手轮/方头 Hand wheel/bare stem
关闭方向 Closing side: 顺时针关闭 Clockwise

主要材料 Main materials

NO.	部件名称 Name of part	选用材料 Material
1	阀瓣 Disc	球铁 Ductile cast iron
2	阀瓣密封圈 Disc Sealing ring	钢合金 Alloy steel
3	阀座密封圈 Seat Sealing ring	钢合金 Alloy steel
4	阀体 Body	球铁 Ductile cast iron
5	阀杆螺母 Stem nut	钢合金: Alloy steel
6	垫圈 Gasket	EPDM
7	阀杆 stem	SS420
8	O型圈 O ring	EPDM
9	O型圈 O ring	EPDM
10	密封垫圈 sealed gasket	Pvc-u
11	螺栓 Bolt	镀锌钢 Galvanized steel
12	手轮 Hand wheel	球铁 Ductile cast iron
13	螺柱 Stub	镀锌钢 Galvanized steel
14	填料压盖 Packing Gland	球铁 Ductile cast iron
15	填料箱 Packing box	球铁 Ductile cast iron
16	O型圈 O ring	EPDM
17	阀盖 Bonnet	球铁 Ductile cast iron
18	螺栓 Bolt	镀锌钢 Galvanized steel
19	平垫片 flat gasket	镀锌钢 Galvanized steel
20	螺母 Nut	镀锌钢 Galvanized steel

主要连接尺寸 Main connection size

DN	结构长度 Structure length (mm)	EN1092-2			
		φ D	φ A	φ K	N-φ n
50	178	165	125	90	4-φ 19
65	190	185	145	118	4-φ 19
80	203	200	160	132	8-φ 19
100	229	220	180	156	8-φ 19
125	254	250	210	184	8-φ 19
150	267	285	240	211	8-φ 23
200	292	340	295	266	8-φ 23/12-φ 23
250	330	395/405	350/355	319	12-φ 23/12-φ 28
300	356	445/460	400/410	370	12-φ 23/12-φ 28

硬密封闸阀 hard sealed gate valve

英标 British Standard BS5163; 德标 Germany Standard DIN3352-F4/F5; 美标 America Standard AWWAC500;
日标 Japanese Standard JSB2062; 双法兰连接 Double flanges connection DN50-300

- 结构长度 Structural Length: EN558-1; ASME B16.10
- 法兰标准 Flange standard: EN1092; ANSI B16.5
- 公称压力 Rated pressure: PN16
- 阀体试压 Strength Test 1.5XPN; 密封试压 Sealing test 1.1XPN
- 内外表面环氧喷塑 250 微米厚度
Thickness of epoxy spray painting on the surface: 250 μm
- 使用介质: 中性水、饮用水、污水
Applicable Medium: Water, drinking water, Sewage
- 顺时针关闭 (CWC) Clockwise to close
- 操作方式: 手轮, 传动帽
way of operation: handwheel, transmission cap
- 密封等级 Sealing Class: GB/T 13927
DN50-150 (Class A), DN200-300 (Class D)
- 滚压阀杆-表面光滑, 降低操作扭矩
Stem: smooth surface, low operation torque
- 中口连接螺栓标准材质 connection bolts: SS304
- 发货前 100% 水压测试, hydro test before shipment

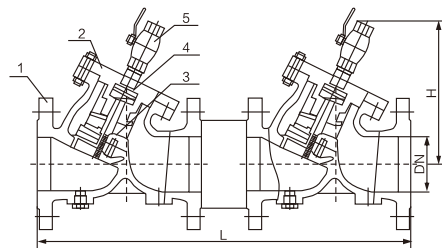
● 阀杆密封 Stem Sealing
由三个独立的密封圈保证上密封永久密封, 若长久使用后密封圈磨损泄露时只需要紧固上端压盖螺栓即可恢复密封。
The upper sealing can be ensured as permanent sealing by 3 independent sealing rings, it only needs to fasten the upper bolt on the gland to recovery the sealing after long time to use and wearing on the sealing rings occurred.

● 阀杆设计: Stem design
球面止推, 自动定心, 摩擦阻力小, 使阀门开关轻便, 操作扭矩小。
Spheric thrusting, automatic center locking, low friction and resistance, easy to operation, low torque to open.

● 主密封圈 Main sealing ring
在线带压更换密封圈时可防止泄露。
Preventing leakage during online sealing rings replacement.

● 阀瓣 Disc
球墨铸铁材质, 密封圈为铜合金, 表面通过精密加工, 能和阀体密封圈很好的。密封圈精确加工并牢固的压在阀瓣上的燕尾槽内。产品内外表面喷涂环氧树脂, 保证长期使用不腐蚀。
Made of ductile iron, the sealing ring is copper alloy, and the surface is precisely machined to fit well with the body sealing ring. The sealing ring is precisely machined and firmly pressed into the dovetail groove on the disc. The inner and outer surfaces of the product are sprayed with epoxy resin to ensure long-term use without corrosion.

● 专机 Customized equipment
量身定制, 全自动化设备生产, 确保产品的加工精度及镜面粗糙度, 有效的保证产品一次合格率达 99.5%。
Customized equipment, fully automatic equipment to produce, ensure the precision and mirror like surface roughness, qualified rate can reach to 99.5%



工作原理 Working principle

普通型:为三个止回阀串联而成, 当其中有一只密封破坏时, 另二只还起密封作用, 防止回流。但三只止回密封同时破坏后, 就失去了止回作用。其安全可靠相对差些, 工作原理较简单。

Ordinary type: It is composed of three check valves connected in series. When one of the check valves is damaged, the other two can still seal to prevent back flow. But when all three check valves are damaged at the same time, it loses its function. The safety and reliability of it are relatively poor, and its working principle is simple.

安全型:防污隔断阀在普通型基础上中间加排水器, 这样即使二只止回阀密封同时破坏, 其他也能起到防止回流污染的作用。

Safety type: The anti-dirt throttling valve is based on the ordinary type but add a drainer in the middle. In this way, even the seals of two check valve are damaged at the same time, the others can also prevent back flow pollution.

产品特点 Product Features

HS41X是一种安装在各类管路系统中用于严格阻止介质倒流, 保护其后的介质或设备不受污染的止逆类阀了。由两个串联的止回阀和过渡部分组成, 密封严密确保介质无一点回流, 安全可靠, 使用寿命长。

HS41X is a back flow preventor installed in various pipeline systems to strictly prevent the back flow of medium and protect the media or equipment away from contamination. It consists of two check valves in series and a transition part. It is tightly sealed to ensure that there is no back flow of medium. It is safe, reliable and has a long life span.

技术参数 Specifications

公称通径 DN: DN50mm~DN600mm

公称压力 PN: 1.0MPa~2.5MPa

适用介质Applicable Medium:

原水, 清水, 油及性质接近水的液体

Water, and other medium with similar physical and chemical properties as water

介质温度 Medium temperature: 0℃~80℃

典型应用 Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

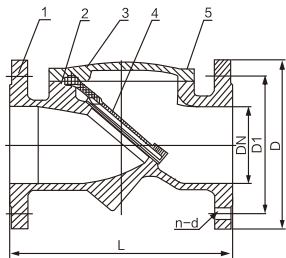
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁 Ductile cast iron、铸钢 Casting steel
2	阀盖 Bonnet	球墨铸铁 Ductile cast iron、铸钢 Casting steel
3	阀瓣 Disc	球墨铸铁 Ductile cast iron、铸钢 Casting steel
4	弹簧 Spring	不锈钢 Stainless steel
5	放污阀 Drainer valve	黄铜 Brass

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	458	482	551	653	735	793	1008	1186	1340	1505	1670	1886	1986	2318
H	210	235	264	308	356	400	503	595	705	705	905	910	921	1210



工作原理
Working principle

当介质按规定方向流动时，阀瓣受介质力的作用，被开启;介质逆流时，依靠介质本身流动自行快速关闭，达到阻止介质逆流的目的。
When the medium flows in set direction, the valve disc is opened by the force of the medium; when the medium flows in reverse, it closes quickly by the flow of the medium itself, to prevent the medium back flow.

产品应用及特点
Application and feature of product

功能 Functions:
依靠介质本身流动而自动开、闭阀瓣，用来防止介质倒流。
Open/Close depend on the flow of the medium it self, to prevent the back flow of the medium.

应用领域 Application fields:
石油、化工、冶金、水处理等
Petroleum, Chemical, Metallurgy, water treatment

产品特点 Product Features :
1、低压启闭性能好;
Good open/close motion under low pressure
2、水头损失小;Low lost on flow rate
3、阀瓣整体包胶，保证不受污染;
Full rubber coated disc, not contaminant
4、使用寿命长。Long life span

技术参数
Specifications
公称通径 DN: DN50mm~DN600mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
测试标准 Test standard: GB/T 13927-2008

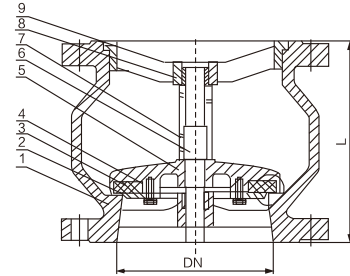
典型应用
Typical Application
1、水厂及水源工程
City water plant and water resource projects
2、环境保护 Environment protection
3、市政设施 Municipality utilities
4、电力及公用事业 Power plants
5、建筑行业 Buildings
6、石油、化工 Petroleum, Chemical plants
7、钢铁、冶金 Steel, Metallurgy plants
8、造纸行业 Paper producing

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁 Ductile cast iron、铸钢 Casting steel
2	阀盖 Bonnet	球墨铸铁 Ductile cast iron、铸钢 Casting steel
3	阀瓣 Disc	球墨铸铁 Ductile cast iron、铸钢 Casting steel
4	弹簧 Spring	不锈钢 Stainless steel

主要连接尺寸 Main connection size 单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	203	216	241	292	330	356	495	622	698	787	914	965	1067	1219
H														



工作原理 Working principle

当介质按规定方向流动时，阀瓣受介质力的作用被顶开，实现开启；介质逆流时，因阀瓣背面弹簧力和介质反向力的作用，使阀瓣与阀座的密封面紧密贴合而关闭，由于阀瓣密封面采用橡胶密封，从而实现消声和阻止介质逆流的目的。

When the medium flows in set direction, the valve disc is opened by the force of the medium; when the medium flows in reverse, it closes quickly by the spring in the back of disc and flow of the medium, the disc and seat are contact tightly. The sealing face of the disc is made of rubber, it is silent during closing, and prevent the medium back flow.

产品应用及特点 Application and feature of product

消声止回阀是指依靠介质本身流动而自动开、闭阀瓣，用来防止介质倒流的阀门，又称逆止阀、单向阀、逆流阀。该阀门适用于给排水系统，高层建筑管网，广泛应用于泵出口的管道上。
A muffler check valve is a valve that automatically opens and closes the valve disc depends on the flow of the medium itself to prevent the back flow. It is also called non-return valve, one-way valve, or reverse flow valve. This valve is suitable for water supply and drainage systems, high-rise building pipe networks, and is widely used at pump outlets.

产品特点 Product Features:

- 1、可以水平或垂直安装:
Can be installed horizontally or vertically
- 2、水头损失小 Low lost on flow rate;
- 3、噪音小，结构紧凑，密封可靠;
Low noise, compacted structure, reliable sealing
- 4、强度高 High strength;
- 5、有效防止水锤;
Prevent water hammer effectively
- 6、长导向轴可以有效防止阀瓣位移;
Low guide axle can prevent disc displacement effectively
- 7、独特的法兰切口可以放置经过的电缆线(DN100以下)。
Unique flanges cut can put cables under it. (Smaller than DN100)

技术参数 Specifications

公称通径 DN: DN50mm-DN300mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
连接方式 Connection type:
法兰连接 Flange Connection
测试标准 Test standard: GB/T 13927-2008

典型应用 Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

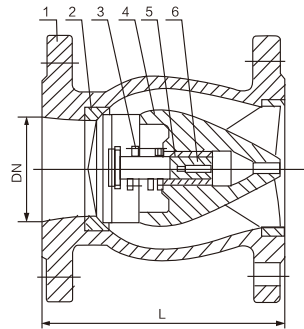
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel
2	压板 Gland	不锈钢 Stainless steel
3	密封垫 Sealed gasket	NBR
4	螺栓 Bolt	不锈钢: Stainless steel
5	阀瓣 Disc	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel
6	阀杆 Stem	不锈钢 Stainless steel
7	弹簧 Spring	不锈钢 Stainless steel
8	导向套 Guiding sleeve	铜合金 Alloy steel
9	支架 Brace	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
L	120	130	150	165	190	210	255	310	320	380	405	430	450	510
H														



工作原理
Working principle

该阀的结构特征如图所示。该阀的主要特点是在阀体上安装了一个导流体，当液体从进口进入后，顶开阀瓣6流向出口。当液体停止进入时，出口管道内的液体流速将逐渐减慢，由于阀瓣6在弹簧3和阀瓣回流的右端导流体内介质的作用下迅速向左移动。在出口介质流速达到零之前，防止了波体的倒流，从而防止了水锤的发生，达到了静音关闭的效果，消防了噪音，延长了阀门的使用寿命。

The structure of this valve is shown in the drawing. The main feature of this valve is that a flow guiding body is installed on the valve body. When the liquid enters from the inlet, the disc 6 is pushed and flows to the outlet. When the liquid stops entering, the liquid flow rate in the outlet pipe will gradually slow down, because the disc 6 moves rapidly to the left under the force of the spring 3 and the back flow in the guide body at the right end of the Disc 6. Before the outlet medium flow rate reaches zero, the back flow and water hammer are prevented. The effect of silent closing, reducing noise, and extending the service life of the valve are realized.

产品应用及特点
Application and feature of product

功能 Function:
依靠介质本身流动而自动开、闭阀瓣，用来防止介质倒流。

Open/Close depend on the flow of the medium itself, to prevent the back flow of the medium.

应用领域 Application fields:
石油、化工、冶金、水处理等。
Petroleum, Chemical, Metallurgy, water treatment and etc.

产品特点 Product Features:
1、低压启闭性能好;
Good open/close motion under low pressure
2、水头损失小; Low lost on flow rate
3、使用寿命长; Long life span

技术参数 Specifications
公称通径 DN: DN50mm~DN600mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
测试标准 Test standard: GB/T 13927-2008

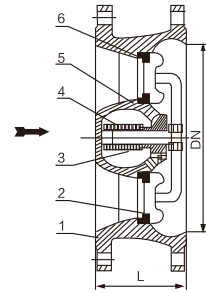
典型应用 Typical Application
1、水厂及水源工程
City water plant and water resource projects
2、环境保护 Environment protection
3、市政设施 Municipality utilities
4、电力及公用事业 Power plants
5、建筑行业 Buildings
6、石油、化工 Petroleum, Chemical plants
7、钢铁、冶金 Steel, Metallurgy plants
8、造纸行业 Paper producing

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁Ductile cast iron、铸钢Casting steel,
2	阀座 Seat	不锈钢 Stainless steel
3	弹簧 Spring	不锈钢 Stainless steel
4	导流体 Flow guiding body	球墨铸铁Ductile cast iron、铸钢Casting steel,
5	导向套 guiding sleeve	球墨铸铁Ductile cast iron、铸钢Casting steel,
6	阀瓣 Disc	球墨铸铁Ductile cast iron、铸钢Casting steel,

主要连接尺寸 Main connection size 单位: mm

DN	50	65	80	100	125	150	200	250	300	350
L	120	150	180	229	254	267	292	330	356	381
H										



工作原理 Working principle

CVKR静音式止回阀安装于水源出口处，可在水流倒流前先行快速关闭，避免产生水锤、水击声和破坏型冲击，以达到静音、防止倒流和保护设备的目的。

CVKR Muffler check valve is installed at the outlet of water resource, it can be closed rapidly before the back flow, to prevent water hammer, water impact, and damage impact, and realize the purpose of silence, back flow prevention, and equipment protection.

产品应用及特点

Application and feature of product

CVKR静音止回阀采用符合水力学的轮廓设计，取得较佳的流线型水路，内部附有导流体的设计能保证最小的压力损失。

The design of CVKR muffler check valve complies to hydro flow mechanics to achieve an optimized streamlined channel. The internal design with a guide body can ensure minimal pressure loss.

产品特点 Product Features:

- 1、可以水平或垂直安装:
Can be installed horizontally or vertically
- 2、水头损失小;
Low lost on flow rate
- 3、噪音小，结构紧凑，密封可靠;
Low noise, compacted structure, reliable sealing
- 4、强度高; High strength
- 5、有效防止水锤;
Prevent water hammer effectively

技术参数

Specifications

公称通径 DN: DN50mm-DN300mm

公称压力 PN: 1.0MPa~2.5MPa

介质温度 Medium temperature: 0℃-80℃

适用介质 Applicable Medium: 水 Water

连接方式 Connection type:

法兰连接 Flange Connection

法兰标准 Flanges standard: GB/T 17241.6-2008

测试标准 Test standard: GB/T 13927-2008

典型应用

Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

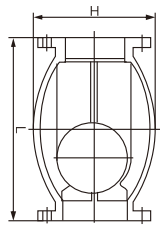
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel
2	阀瓣 Disc	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel
3	轴承 Bearing	不锈钢 Stainless steel
4	弹簧 Spring	不锈钢 Stainless steel
5	导向套 guiding sleeve	球墨铸铁、铸钢、不锈钢 Ductile cast iron, casting steel, Stainless steel
6	阀座 Seat	不锈钢 Stainless steel

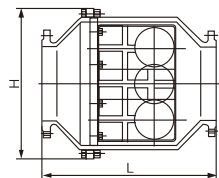
主要连接尺寸 Main connection size

单位: mm

DN	300	350	400	450	500	600	700	800	900	1000	1200
L	181	184	191	203	219	222	280	356	368	432	524
H											



HQ44X-16
DN50-300



HQ45X
DN300-1000

工作原理

Working principle

微阻球形止回阀，采用橡胶包皮球为阀瓣，在介质的作用下，可在阀替内的滑道上滚动，从而打开或关闭阀门，流量大流阻损失小，密封性能好，消声关闭，可减小水击波。水平或垂直安装均可。可用于冷水、热水、工业及生活污水等管网的水泵出口，防止介质倒流。

The micro-resistance ball type check valve uses a rubber-coated ball as the disc. Under the flow of the medium, it can roll on the slide groove inside the valve to open or close the valve. It has a large flow rate, small flow resistance loss, good sealing performance, silent closing and can reduce water impact. It can be installed horizontally or vertically, used for the water pump outlet for water, hot water, industrial and domestic sewage pipe networks to prevent back flow.

产品应用及特点

Application and feature of product

功能 Functions:

流量大流阻损失小，密封性能好，消声关闭，可减少水击波。

large flow rate, small flow resistance loss, good sealing performance, silent closing and can reduce water impact.

应用领域 Application fields:

石油、化工、冶金、水处理等

Petroleum, Chemical, Metallurgy, water treatment and etc

产品特点 Product Features:

- 1、低压启闭性能好;
Good open/close motion under low pressure
- 2、水头损失小; Low lost on flow rate
- 3、使用寿命长; Long life span

技术参数

Specifications

公称通径 DN: DN50mm-DN1000mm

公称压力 PN: 1.0MPa~2.5MPa

介质温度 Medium temperature: 0℃-80℃

适用介质 Applicable Medium: 水 Water

测试标准 Test standard: GB/T 13927-2008

典型应用

Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

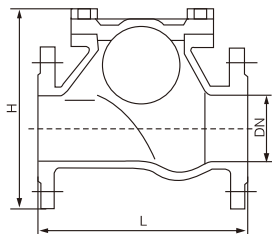
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁 Ductile cast iron、铸钢 Casting steel
2	球体 Ball	球墨铸铁 Ductile cast iron、铸钢 Casting steel+NBR/EPDM
3	阀座 Seat	球墨铸铁 Ductile cast iron、铸钢 Casting steel

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
L	205	216	241	291	330	356	495	622	698	787	914	978	978	1295	1448	1600	1760	1900
H	180	210	225	245	280	320	380	450	470	500	815	825	980	1155	1260	1350	1660	1700



工作原理
Working principle

HO41X微阻滚球形式止回阀，采用橡胶包皮滚动球为阀瓣，在介质的作用下，可在阀体的整体式滑道上作上下滚动，从而打开或关闭阀门，密封性能好，消声市关闭，不产生水锤。

HO41X micro-resistance ball type check valve uses a rubber-coated ball as the disc. Under the flow of the medium, it can roll on the slide groove inside the valve to open or close the valve. It has good sealing performance, silent closing and can prevent water hammer.

产品应用及特点
Application and feature of product

阀体采用全水流通道，流量大，阻力小，水龙头损失比旋启式50%，在水平或垂直安装均可，可用于冷水、热水、工业及生活污水管网，更适合潜水排污泵，介质温度0℃-80℃。可安装于水泵出水口处，以防止倒流及水锤对泵损害。

The valve body adopts full bore, large flow rate, small resistance, and flow loss is 50% less than swing type. It can be installed horizontally or vertically, and can be used for water, hot water, industrial and domestic sewage pipe networks. It is more suitable for submersible sewage pumps, and the medium temperature is 0℃-80℃. It can be installed at the outlet of the water pump to prevent back flow and water hammer to damage pump.

产品特点 Product Features:

- 1、可以水平或垂直安装;
Can be installed horizontally or vertically
- 2、水头损失小 Low lost on flow rate;
- 3、噪音小，结构紧凑，密封可靠;
Low noise, compacted structure, reliable sealing
- 4、强度高; High strength
- 5、有效防止水锤;
Prevent water hammer effectively

技术参数 Specifications

公称通径 DN: DN50mm-DN400mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃-80℃
适用介质 Applicable Medium: 水 Water
连接方式 Connection type:
法兰连接Flange Connection
法兰标准 Flanges standard: GB/T 17241.6-2008
测试标准 Test standard: GB/T 13927-2008

典型应用 Typical Application

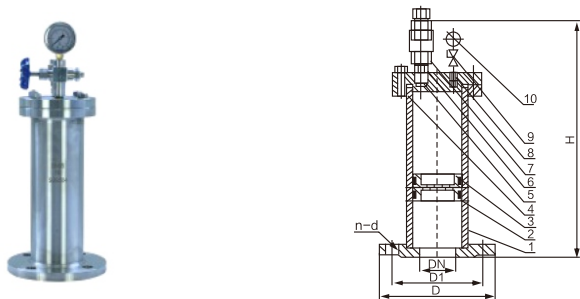
- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁 Ductile cast iron、铸钢 Casting steel
2	球体 Ball	球墨铸铁 Ductile cast iron、铸钢 Casting steel+NBR/EPDM
3	阀座 Seat	球墨铸铁 Ductile cast iron、铸钢 Casting steel

主要连接尺寸 Main connection size 单位: mm

DN	50	65	80	100	125	150	200	250	300	350	400
L	180	200	260	300	350	400	500	600	698	800	880
H	185	210	245	280	335	400	495	600	690	776	885



工作原理
Working principle

在ZYA9000型活塞气囊式水锤吸纳器工作时，气缸内充满一定压力的气体，标准三通垂直装于管路中。在正常情况下，当水流压力低于气缸内压力时，活塞不会产生运动，吸纳器对管路不产生影响管路液体正常流动。当管路水流压力高于气缸内压力时，能对水击波的瞬产压力提供有效的缓冲，从而使管内压力得到调节。

When the ZYA9000 model piston airbag water hammer absorber is working, the cylinder is filled with gas on pressure, and the standard tee is installed vertically in the pipeline. Under normal conditions, when the flow pressure is lower than the pressure in the cylinder, the piston will not move, and the absorber will not affect the normal flow of in the pipeline. When the water flow pressure in the pipeline is higher than the pressure in the cylinder, it can provide effective buffering for the instantaneous pressure of the water hammer, so that the pressure in the pipe can be adjusted.

产品应用及特点
Application and feature of product

产品结构简单，安装维修方便。性能稳定、动作灵敏，能有效地、快速地消除运行管道中的噪音和振动。在水泵管路各种工况下，均可有效的消除不规则的水击波震荡。This product has a simple structure and is easy to install and maintain. It has stable performance and sensitive action, and can effectively and quickly eliminate noise and vibration in the pipeline. It can effectively eliminate irregular water hammer vibrations under various working conditions in the pipeline.

产品特点 Product Features:

- 1、水头损失小;
Low lost on flow rate
- 2、噪音小，结构紧凑，密封可靠;
Low noise, compacted structure, reliable sealing
- 3、强度高; High strength
- 4、有效防止水锤;
Prevent water hammer effectively

技术参数
Specifications

公称压力 PN: DN50mm~DN400mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
连接方式 Connection type:
法兰连接Flange Connection
法兰标准 Flanges standard: GB/T 17241.6~2008
测试标准 Test standard: GB/T 13927~2008

典型应用
Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

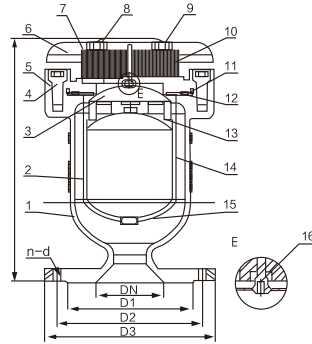
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	不锈钢 Stainless steel
2	活塞 Piston	不锈钢 Stainless steel
3	O型密封圈 O ring	NBR
4	六角螺栓 Hexagon blot	A2-70
5	阀盖 Bonnet	不锈钢 Stainless steel
6	连接头 Joint	不锈钢 Stainless steel
7	止回阀 Check valve	不锈钢 Stainless steel
8	O型密封圈 O ring	NBR
9	针型阀 Needle valve	不锈钢 Stainless steel
10	压力表 Pressure Gauge	

主要连接尺寸 Main connection size

单位: mm

DN	50	65	80	100	125	150	200	250	300
L	365	465	510	575	600	645	755	855	955
H									



工作原理 Working principle

充满水，浮球上升带动阀瓣关闭，停止排气。当管内水正常输送时，如有少量空气聚集在阀内到相当的程度，阀内水位下降，浮球随之下降，此时空气由小孔排出。当水泵停止时，管内水流空或遇管内产生负压，此时阀瓣迅速开启，吸入空气，确保管线安全。

When the pipe is filled with water, the floating ball rises and drives the valve disc to close, air exhausting stops. When the water in the pipe is transported normally, if a small amount of air gathers in the valve, the water level in the valve drops, and the floating ball drops accordingly, and the air is discharged from the small hole. When the water pump stops, the water in the pipe flows out, negative pressure may appear in the pipe. At this time, the valve disc opens quickly to inhale air to ensure the safety of the pipeline.

产品应用及特点 Application and feature of product

- 1、将空的管路系统于充满水时，可以将空气大量排出；
When water is filling in pipeline, the valve can exhaust big amount of air from the pipeline.
- 2、可以连续不断的排出管路系统中积聚的微量空气由小孔连续排出；
It can exhaust small quantity of air in the pipeline continuously from small holes.
- 3、当管路流空时，可以由大气中吸入大量空气，以防止管路破管或变形。
When the pipeline is empty, it can inhale a lot of air, to prevent crack and deformation on the pipeline

- 精巧先进的机械设计，强壮结实的浮球，可以防止被突然产生的水锤击毁损坏。
Crafted advanced mechanical design, Solid strong floating ball, can prevent the damage from sudden occurred water hammer
- 在水位没有上升到推动浮球密封排气大孔之前;即使压缩空气流速到达音速的情形下，浮球仍能留在底部位置。
Before the water level has not rises to push the float ball to seal the large exhaust holes, the floating ball can remain at the bottom even if the compressed air flow speed reaches sonic.
- 没有支臂或杠杆可以防止震动及脱落问题。
No arm or lever bar structure, no need to worry about on oscillation or falling apart
- 浮球外面有不锈钢套筒，保证浮球在设定的导轨内滑动。
There is stainless steel sleeve outside floating ball, to ensure the ball can slide on the set sliding groove.
- 底部橡胶防撞垫具有保护浮球下降中碰撞的功能在负压情况下，通过精巧设计的足够孔数，可以达到快速排水及吸气功能。
The rubber anti-collision pad at the bottom has the function of protecting the ball from collision during descent. Under negative pressure conditions, the sufficient number of holes designed ingeniously can realize rapid drainage and air suction functions.
- 上部滤网作为选配部件，具有安全保护和防止昆虫或鸟类进入的功能。
Upper screen mesh is an optional part, can keep birds and insects away and protect the valve.
- 阀体内外部以环氧树脂涂装，可以达到更长的使用寿命。
The body is painted on epoxy on both outside and inside, can have a long life span

技术参数 Specifications

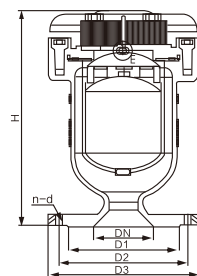
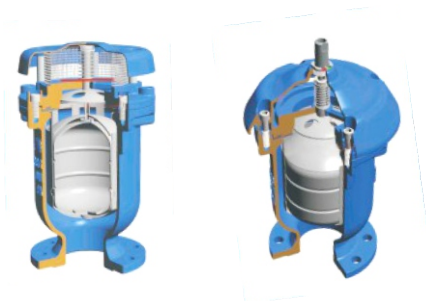
公称通径 DN:DN50mm~DN200mm
工作压力 Working Pressure: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
连接方式 Connection type: 法兰连接Flange Connection
制造标准:GJ/T 217,BS EN 1074-3, AWWA C512
法兰标准 Flanges standard: GB/T 17241.6,BS EN 1092,
BS EN 558, ANSI

典型应用 Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

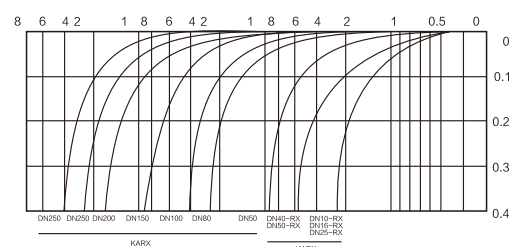
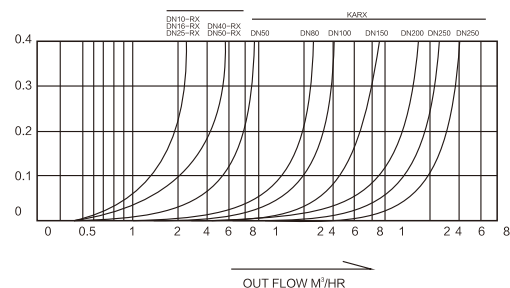
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球铸 Ball casting
2	浮球 Floating ball	不锈钢 Stainless steel
3	密封盖 Sealing cap	不锈钢 Stainless steel
4	内六角螺栓 Inner Hexagon blot	碳钢 Carbon steel、不锈钢 Stainless steel
5	阀盖 Bonnet	球铁 Ductile iron
6	防尘盖 Dust proof cover	碳钢Carbon steel
7	防尘网 Dust proof mesh	不锈钢 Stainless steel
8	外六角螺栓 Outer Hexagon blot	碳钢 Carbon steel、不锈钢 Stainless steel
9	平垫 Flat washer	不锈钢 Stainless steel
10	支柱 Brace	铝 Aluminum
11	O型圈 O ring	橡胶 Rubber
12	中腔密封垫 Middle cavity gasket	橡胶 Rubber
13	排气孔密封垫 Exhausting hoes gasket	橡胶 Rubber
14	外套管 Outer Sleeve	不锈钢 Stainless steel
15	防撞套 Damper	橡胶 Rubber
16	排气孔 Exhausting hoes	不锈钢 Stainless steel

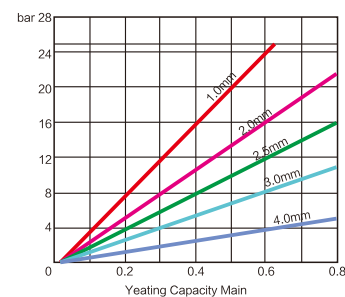


吸排气性能曲线图

Suction and exhaust performance diagram



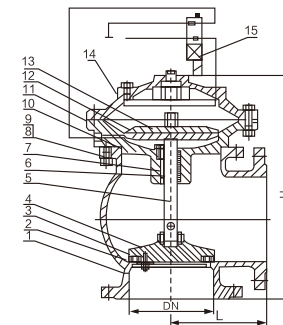
Air release during working conditions



主要连接尺寸 Main connection size

单位: mm

DN	Model No.	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	H	PN10	PN16	PN25
50	KARX-0050	99	99	99	165	165	165	125	125	125	202	4-Φ19	4-Φ19	4-Φ19
80	KARX-0080	132	132	132	200	200	200	160	160	160	294	8-Φ19	8-Φ19	8-Φ19
100	KARX-0100	156	156	156	220	220	235	180	180	190	361	8-Φ19	8-Φ19	8-Φ23
150	KARX-0150	211	211	211	285	285	300	240	240	250	404	8-Φ23	8-Φ23	8-Φ28
200	KARX-0200	266	266	274	340	340	360	295	295	310	487	8-Φ23	12-Φ23	12-Φ28
300	KARX-0300	270	370	389	445	460	485	400	410	430	602	12-Φ23	12-Φ28	12-Φ31



工作原理

Working principle

本产品由双室隔膜传动机构和角式阀体组成。当隔膜上室给压力时，使阀瓣关闭；当隔膜下室给压力时，使阀瓣开启。

This product is consisted of a double-chamber diaphragm transmission mechanism and an angle type valve body. When pressure is applied to the upper chamber of the diaphragm, the disc is closed; when pressure is applied to the lower chamber of the diaphragm, the valve disc is opened.

产品应用及特点

Application and feature of product

功能Function:

由液压源或气动源作执行的角型截止门，通常成排安装在沉淀池底部外侧壁，用以排除池底沉淀的泥砂和污物。该阀液压缸之活塞为L形皮碗，密封性能好，经久耐用，阀门密封副亦橡胶密封，无泄漏。还可通过电动二位四通换向电磁阀实现远程控制。操作方便，安全可靠。An Angle globe valves actuated by hydraulic or pneumatic power, usually installed in rows on the outer side wall of the bottom of the sedimentation tank to remove mud, sand and dirt deposited at the bottom of the tank. The piston of the hydraulic cylinder of this valve is an L-shaped rubber cup with good sealing performance and durability. It has an auxiliary seal is also rubber and leak-free. It can also be remotely controlled through an electric two-position four-way reversing solenoid valve. It is easy to operate, safe and reliable.

产品特点 Product Features:

- 1、采用双隔膜传动机构，无运动磨损，寿命长。
Adopt double diaphragm transmission mechanism, no motion wearing, long life span
- 2、阀瓣与阀座为软密封，密封性能好，无泄漏；
The disc and seat are soft sealed, good sealing, no leakage.
- 3、驱动介质压力低，采用电动二位四通换向阀或手动二位四通换向阀集中控制，操作方便。
Low actuating pressure, can be central operated through electric two-position four-way reversing valve or manual two-position four-way reversing valve, easy to operate.

技术参数

Specifications

公称通径 DN: DN50mm-DN400mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
测试标准 Test standard: GB/T 13927-2008

典型应用

Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

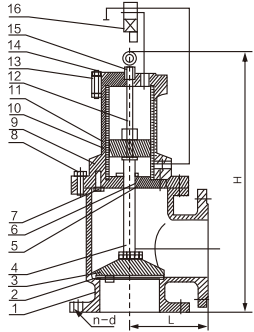
主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁Ductile cast iron、铸钢Casting steel
2	密封垫压板 Sealing gasket gland	不锈钢Stainless steel+环氧树脂 Epoxy
3	阀盘密封垫 Disc sealing gasket	NBR
4	阀瓣 Disc	不锈钢 Stainless steel
5	阀杆 Stem	不锈钢 Stainless steel
6	导向套 Guide sleeve	铜合金 Copper alloy
7	O型密封圈 O ring	NBR
8	螺母 Nut	不锈钢 Stainless steel
9	螺柱 Stub	不锈钢 Stainless steel
10	O型密封圈 O ring	NBR
11	下阀盖 lower bonnet	球墨铸铁Ductile cast iron、铸钢Casting steel
12	膜片 Diaphragm	尼龙强化橡胶 Nylon reinforced rubber
13	膜片压板 Diaphragm gland	不锈钢 Stainless steel
14	上阀盖 lower bonnet	球墨铸铁 Ductile cast iron、铸钢Casting steel,
15	二位四通通 two positions four ways Tee	电动 Electric

主要连接尺寸 Main connection size

DN	100	150	200	250	300	350	400		
L	160	190	225	280	280	300	340		
H	370	440	530	615	785	880	970		

单位: mm



工作原理
Working principle

液动角式排泥阀由液压缸和角式截止阀两大部分组成，液压缸为动力带动阀板升降，使阀体通道开或闭以达到流体通断。液压缸活塞密封件L型皮碗，其密封性能好，经久耐用。皮碗选用吸水革制作，其寿命达两年以上，经用户使用后的反馈信息有多达5年未更换者有之。开启速度快，一般在15秒钟内阀板已全开，阀板与阀体为软密封关闭后密封性能好，无泄漏，以便维修更换，如配以电磁换回阀指控液压缸，则能实现远控、自控等。若配手动装置，可以4-12台一排安装同时启动关闭，驱动压力取于水厂本身，无需另加设备，可省人力物力，节约能源。

The hydraulic angle type quick open mud drainage valve is consisted of hydraulic cylinder and angle globe valve. The hydraulic cylinder drives the disc to rise and fall, so that the valve body channel is open or closed to make flow open or close. The sealing of hydraulic cylinder piston is L-shaped rubber cap, its sealing performance is good and durable. The rubber cup is made of water-absorbing rubber, its life span is more than two years, and sometimes can be 5 years from the feedback of customers. Opening speed is fast, generally within 15 seconds the disc has been fully open, the disc and body are soft sealed. The sealing performance is good, no leakage, easy to maintenance and replacement, if add an solenoid to control the hydraulic cylinder, can realize remote control, automatic control, etc. If equipped with manual device, 4-12 sets can be installed in a row, open/close can be in the same time, the driving pressure is from the water plant itself, without additional equipment, can save manpower and material resources, save energy.

产品应用及特点
Application and feature of product

采用电动二位四通换向阀或手动二位四通换向阀集中控制，操作方便，阀门启闭灵活。此阀主要安装在个类沉淀池的底部壁外，用以排除池底的泥沙污物。相关产品有J644X气动快开角型、JM744、JM644X气动、液压快开型、H742X波动型、100S角式隔膜型。Using electric two-positions, four-ways reversing valve or manual two-positions, four-ways reversing valve to central control, easy to operate, flexible opening and closing. This valve is mainly installed outside the bottom wall of the sedimentation tank to remove the sediment at the bottom of the pool. There are some similar products such as J644X pneumatic quick open angle type, JM744、JM644X pneumatic, hydraulic quick open type, H742X waving type, 100S diaphragm angle type.

技术参数
Specifications

公称通径 DN: DN50mm-DN400mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃-80℃
适用介质 Applicable Medium: 水 Water
连接方式 Connection type: 螺纹连接 Threaded connection
连接标准 Flanges standard: GB/T 7306
测试标准 Test standard: GB/T 13927-2008

典型应用
Typical Application

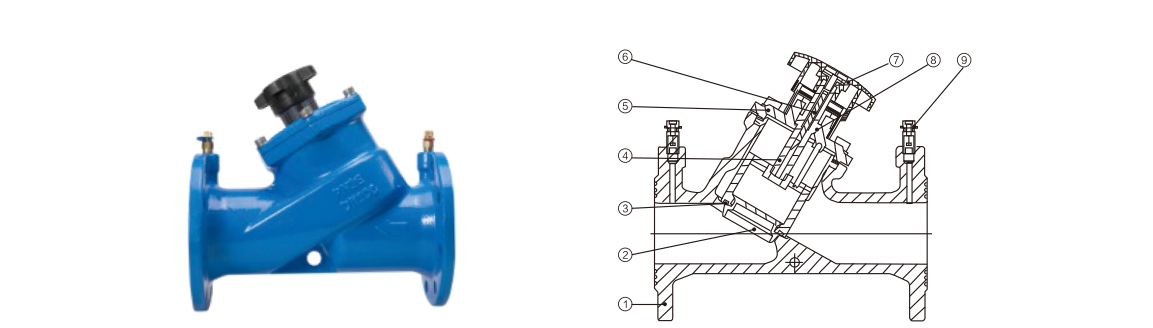
- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
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- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁Ductile cast iron、铸钢Casting steel,
2	密封垫 Sealing gasket	NBR
3	阀瓣 Disc	球墨铸铁Ductile cast iron、铸钢Casting steel,
4	阀杆 Stem	不锈钢: Stainless steel
5	导向套 Guide sleeve	铜合金: Copper alloy
6	O型密封圈 O ring	NBR
7	下阀盖 lower bonnet	球墨铸铁Ductile cast iron、铸钢Casting steel
8	螺柱 Stub	不锈钢 Stainless steel
9	缸体 Cylinder	球墨铸铁Ductile cast iron、铸钢Casting steel
10	膜片压板 Diaphragm gland	不锈钢 Stainless steel
11	活塞密封圈 Piston sealing ring	NBR
12	限位指示器 Position indicator	不锈钢 Stainless steel
13	上阀盖 Upper bonnet	球墨铸铁Stainless steel、铸钢Casting steel
14	填料 Packing	NBR
15	填料压盖 Packing gland	球墨铸铁Stainless steel、铸钢Casting steel

主要连接尺寸 Main connection size

DN	80	100	150	200	250	300	350	400
L	135	145	175	225	260	280	305	340
H	480	500	620	735	805	940	1100	1200



工作原理
Working principle

STBV 系列静态平衡阀安装在水系统的不同位置，通过手动设定阀门不同开度，改变管网阻力分布，调节循环水系统支路或末端之间的静态水力平衡，保证不同支路或末端达到设计流量。

The STBV series static balancing valve is installed in different positions of the water system. By manually setting the different openings of the valves to change the resistance distribution of the pipe network, and regulate the static hydro balance between the branches or ends of the circulating water system, to ensure that the different branches or ends reach the designed flow rate.

产品应用及特点
Application and feature of product

精确流量控制 accurate flow rate control
双面数字手轮开度指示
Double sides digital opening indication on hand wheel
开度锁定简单 Easy to lock the opening
具有关断功能 Within throttling function
采用平衡式阀芯，轻松调节
Adopt balance type trim, easy to regulate
具有自密封压力测量口
Within self sealing pressure gauge connector

典型应用
Typical application

STBV 系列静态平衡阀适用于空调、采暖及工艺水系统，对系统进行静态水力平衡，并且可以通过静态平衡阀的测量功能对系统进行故障诊断。

STBV series static balancing valve is suitable for air conditioning, heat supply and processing water system, make the system in static hydro balance, and the system can be diagnosed through the measurement function of the static balancing valve.

技术参数
Specifications

公称通径 DN: DN65mm–DN500mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: –10℃–120℃
适用介质 Applicable Medium: 水 Water
测试标准 Test standard: GB/T 13927–2008

测量精度
Precision of measurement

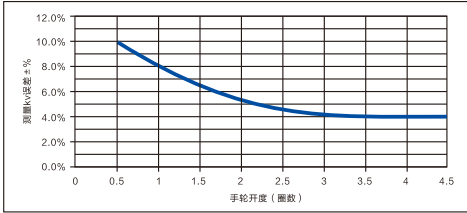
根据国标GBIT28636–2012要求，在阀门开度>50%时，误差不得大于±5%;10%≤开度≤50%时，误差不得大于±10%。上图为我公司产品的测量精度，完全优于国家标准的规定。故在产品选型时，建设计流量下阀门开度大于50%为宜，同时为保证现场调试余量，阀门尽量设置在75%开度左右。

According to the regulation on the GBIT28636–2012, the tolerance is5% when the opening is >50%, the tolerance is 10%, when the opening is ≤50%, the precision o f measurement of our products shown in the above diagram is better that the regulations in national standard. So when you select products, we suggest the opening suppose to>50% under the designed flow rate, and ensure the residue in the site, the 75% opening is recommended.

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁Ductile cast iron、铸钢Casting steel,
2	阀芯 Valve core	不锈钢 Stainless steel
3	阀座密封 Valve seat seal	EPDM
4	阀杆 Stem	不锈钢 Stainless steel
5	阀盖 Valve cover	球墨铸铁Ductile cast iron
6	锁定芯杆 Locking mandrel	不锈钢 Stainless steel
7	手轮 Handwheel	尼龙 Nylon
8	阀杆密封 Stem seal	EPDM/PTFE
9	测量嘴 Measuring nozzle	黄铜 Brass

测量精度 Measurement accuracy

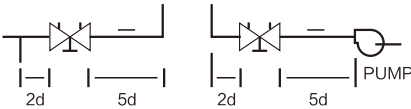


KVS

DN	65	80	100	125	150	200	250	300	350	400	450	500
KVS	94.47	137.31	211.20	330.22	408.32	759.21	1162.44	1703.45	2450.00	3080.00	3750.00	4210.00

KVS

圈数 number of turns	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500
1	13.6	14.04	17.6	24.43	30.15	61.52	93.35	77.84	50.67	79.04	71.58	111.27
2	31.17	28.24	38.7	40.42	50.84	114.27	177.64	180.75	94.05	135.62	150.09	234.51
3	48.1	42.78	57.3	64.45	70.45	158.44	247.53	244.12	167.18	209.12	240.67	307.44
4	59.8	62.08	76.5	89.5	93.93	194.06	295.25	309.35	237.79	292.31	329.78	362.5
5	68.35	82.97	99.3	116.92	122.2	228.97	345.49	353.48	322.44	387.21	446.03	402.51
6	76.07	103.73	132.5	166.1	149.16	295.88	480.61	408.11	421.79	490.08	590.43	455.27
7	82.61	119.93	167.5	206.71	182.19	375.28	599.27	566.22	559.08	595.6	752.09	521.47
8	87.84	127.67	190.2	243.57	223.49	452.07	705.34	742.04	704.52	734.44	910.58	656.8
9	94.47	137.31	211.2	275.85	288.33	526	809.04	867.56	871.73	911.75	1294.09	809.53
10	-	-	-	307.07	326.57	589.74	916.65	1002.31	1175.55	1153.86	1657.8	967.13
11	-	-	-	330.22	372.26	641.03	1006.79	1146.01	1396.09	1407.24	1985.72	1162.83
12	-	-	-	-	408.32	708.91	1081.64	1290.26	1697.82	1779.88	2329.01	1409.23
13	-	-	-	-	-	759.21	1162.44	1408.81	1917.54	2056.43	2607.31	1629.55
14	-	-	-	-	-	-	-	1514.31	2012.05	2377.5	2774.08	1894.87
15	-	-	-	-	-	-	-	1619.95	2118.69	2601.18	2887.43	2143.69
16	-	-	-	-	-	-	-	1703.45	2211.72	2671.07	3015.55	2557.11
17	-	-	-	-	-	-	-	-	2298.74	2764.54	3147.25	2894.62
18	-	-	-	-	-	-	-	-	2372.07	2876.41	3251.94	3187.54
19	-	-	-	-	-	-	-	-	2450.00	2946.23	3351.62	3496.25
20	-	-	-	-	-	-	-	-	-	3011.63	3449.5	3725.41
21	-	-	-	-	-	-	-	-	-	3080.00	3558.67	3886.75
22	-	-	-	-	-	-	-	-	-	-	3657.72	3978.05
23	-	-	-	-	-	-	-	-	-	-	3750.00	4051.66
24	-	-	-	-	-	-	-	-	-	-	-	4123.84
25	-	-	-	-	-	-	-	-	-	-	-	4210.00



2d 5d 2d 5d PUMP

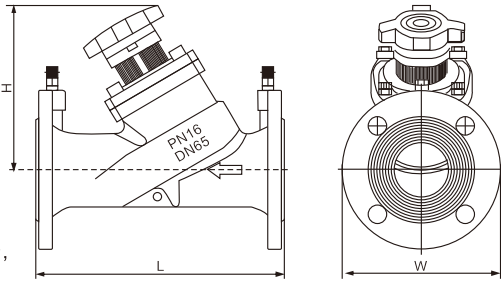
安装说明 Manual of installation

STBV 系列静态平衡阀一般安装于系统的回水管，当与动态压差平衡阀配套使用时，安装于供水管。

STBV series static balancing valve is usually installed at the returning pipe of the piping system, but when it is used with dynamic pressure difference balancing valves, it is installed at water supply pipe.

通常，STBV 与弯头或水泵连接时，需要保持一定的直管段安装距离;当与弯头连接时，遵循阀门5d，阀后2d原则;当与水泵连接时，遵循10d原则。

Usually, when the STBV is connected with elbow or water pump, it need a spool for installation, for connecting with elbow, if the elbow is in front of valve, it should be 5D, in it is behind valve it should be 2D, when connects with water pump, it should be 10D

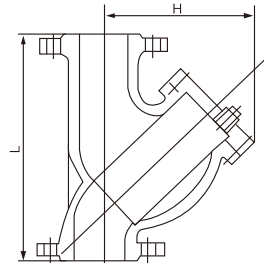


L W H

主要连接尺寸 Main connection size

单位: mm

DN	L	H	W	重量(Kg)
DN65	290	195	185	15.6
DN80	310	215	200	20.0
DN100	350	230	220	26.3
DN125	400	330	250	38.1
DN150	480	350	285	52.6
DN200	600	420	340	91.7
DN250	730	460	405	152.3
DN300	850	600	460	230.0
DN350	980	993	520	320.0
DN400	1100	1090	580	440.0
DN450	1200	1130	640	630.0
DN500	1250	1258	715	885.0



工作原理 Working principle

Y型过滤器是输送介质的管道系统不可缺少的一种过滤器装置，Y型过滤器通常安装在减压阀、泄压阀、定水位阀或其它设备的进口端，用来清除介质中的杂质，以保护阀门及设备的正常使用。当液体通过主管进入滤蓝后，固体杂质颗粒被阻挡在滤蓝内，而洁净的流体通过滤蓝、由过滤器出口排出。

Y shaped Strainer is an indispensable filtering device for the pipeline system of conveying medium. Y shaped Strainer is usually installed at the inlet end of pressure reducing valve, pressure relief valve, water level valve or other equipment to remove impurities in the medium to protect the normal use of valves and equipment. When the liquid enters the filter basket through the main pipe, the solid impurity particles are blocked in the filter basket, and the clean fluid passes through the filter basket and is discharged from the filter outlet.

产品应用及特点 Application and feature of product

Y型过滤器具有结构先进，阻力小，排污方便等特点。Y型过滤器适用介质可为水、油、气。一般通水网为18-30目，通气网为10-100目上，通油网为100-480目。篮式过滤器主要由接管、丰管、滤蓝、法兰、法兰盖及紧固件等组成。

Y shaped Strainer has the characteristics of advanced structure, small resistance and convenient to remove impurities. The Y-type filter is suitable for water, oil and gas. Generally, the mesh for water is 18-30 mesh, for air is 10-100 mesh, and for oil is 100-480 mesh. The basket filter is mainly composed of connecting pipe, main pipe, a filter basket, a flange, a flange cover and fasteners.

技术参数 Specifications

公称通径 DN: DN50mm-DN800mm
公称压力 PN: 1.0MPa~2.5MPa
介质温度 Medium temperature: 0℃~80℃
适用介质 Applicable Medium: 水 Water
测试标准 Test standard: GB/T 13927-2008

典型应用 Typical Application

- 1、水厂及水源工程
City water plant and water resource projects
- 2、环境保护 Environment protection
- 3、市政设施 Municipality utilities
- 4、电力及公用事业 Power plants
- 5、建筑行业 Buildings
- 6、石油、化工 Petroleum, Chemical plants
- 7、钢铁、冶金 Steel, Metallurgy plants
- 8、造纸行业 Paper producing

主要材料 Main materials

序号 No.	部件名称 Name of part	选用材料 Material
1	阀体 Body	球墨铸铁、铸钢 Ductile cast iron, casting steel
2	阀盖 Bonnet	球墨铸铁、铸钢 Ductile cast iron, casting steel
3	膜片压板 Diaphragm gland	球墨铸铁、铸钢 Ductile cast iron, casting steel
4	阀盘 Disk	球墨铸铁、铸钢 Ductile cast iron, casting steel
5	阀杆 Stem	不锈钢 Stainless steel
6	膜片 Diaphragm	NBR

主要连接尺寸 Main connection size

单位: mm

DN	65	80	100	125	150	200	250	300
L	290	310	350	400	480	600	730	850
H	179	200	225	264	312	395	482	565

特点 Features

1、连接 键精度高、强度大、适用安装手柄、蜗轮蜗杆传动、电动和气动各种控制装置；
High precision of connection pin, high strength, suitable for handle installation, worn gears transmission, electric, pneumatic and etc

2、阀杆整体性好，便于控制阀板启闭，具有良好的密封性能，阀杆周围无泄露现象；
Good integrity of stem, easy to control the open/close of the disc, with good sealing, no leakage around the stem.

3、阀板经抛光处理，与阀座配合精度高无干涉现象，操作力矩小，阀座使用寿命长，阀板外形尺寸精确，截流后密封性好。
Polished disc, match with seat precisely, no interference, low operation torque, long life span of the seat, precise dimension of disc, good throttling after close.

4、止推轴承防止阀杆超载，阀杆密封不易变形，避免阀杆泄露现象。
Overloading on the stem is prevented by a thrusting bearing, the stem is not easy to deform, avoid to leakage from stem.

主要材料 Main materials

零件名称Name of parts	材料 Materials
阀体 Body	WCB、QT450-10、HT200、HT250
蝶板 Disc	WCB、QT450-10、HT200、HT250
阀轴 Stem	2Cr13
密封圈 Sealing ring	丁腈耐油橡胶 Nitrile oil resistant rubber

执行标准 Executive standard

制造标准 Production Standard	GB/T 12238-89
法兰标准 Flange standard	GB9113-2000、GB172416-1998
结构长度标准 Structural length standard	GB12221-89
检验标准 Test standard	GBIT 13927-92

主要技术参数 Main technical parameters

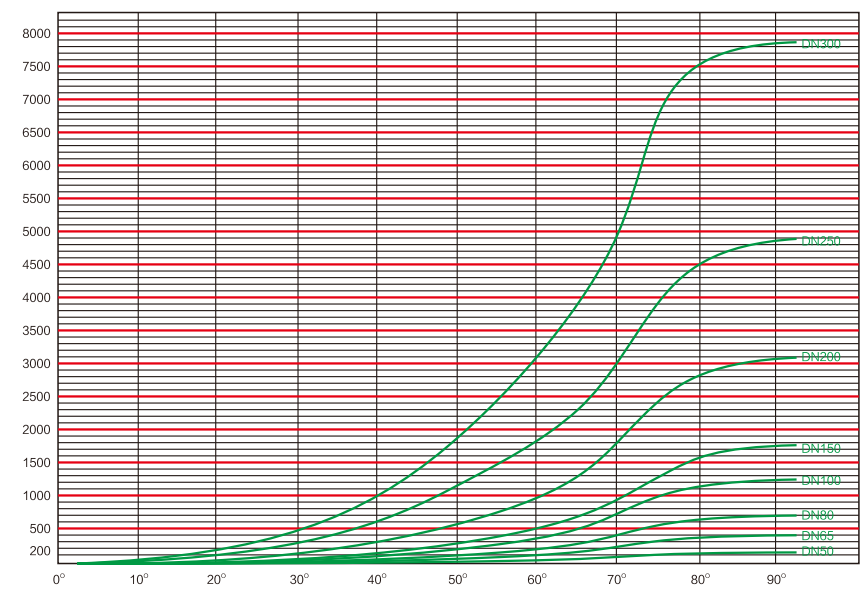
公称通径DN(mm)	40-600	
公称压力PN(MPa)	1.0	1.6
密封试验 Sealing test(MPa)	1.1	1.76
强度试验 Strength test(MPa)	1.5	2.4
适用温度 Applicable temperature	-10℃-80℃	
适用介质 Applicable Medium	水、空气、天然气、食品、药品、各种油类、酸类 Water, Air, Nature Air, Food, Pharmaceutic, various of oil, acids	
驱动方式 Way to actuate	手柄、蜗轮蜗杆传动、电动，气动 Handle, Worm gears, Electric, Pneumatic	

密封副材质表 Material of ancillary sealing

材料 Material	适用温度 ℃	介质类型及适用程度 Sort of medium and applicable													特点 Features	价位 Cost
		淡水 Fresh water	海水 Sea water	盐类 Salts	强碱 Strong alkali	弱碱 Weak alkali	强酸 Strong acid	弱酸 Weak acid	天然气 Natural gas	醇类 Alcohols	空气 Air	蒸气 Steam	油类 Oil	食品 Food		
丁腈橡胶 Nitrile rubber	-40~93℃	★	★	★	▲	★	●	▲	★	■	★	●	★	▲	耐油 Oil resistant	低 Low
三元乙丙 EPDM	-50~135℃	★	★	★	★	★	■	★	▲	▲	★	★	■	★	耐老化 Aging resistant	较低 Low
天然橡胶 Nature Rubber	-20~80℃	★	★	★	★	★	■	▲	●	■	★	●	●	●	高弹性 High elasticity	低 Low
氯丁橡胶 Chloroprene rubber	-40~82℃	★	★	▲	★	★	●	■	●	■	★	●	●	▲	耐光、耐老化 Ray resistant, aging resistant	低 Low
硅橡胶 Silicone rubber	-65~210℃	★	★	▲	●	▲	●	▲	★	▲	★	★	■	■	耐高温 High temperature resistant	高 High
氟橡胶 Fluororubber	-23~204℃	★	★	★	■	★	■	★	★	■	★	★	★	★	耐高温、耐腐蚀 High temperature resistant, corrosion resistant	昂贵 Expansive
聚四氟乙烯 PTFE	-200~160℃	★	★	★	★	★	★	★	★	★	★	★	★	★	耐腐蚀、耐热 strong corrosion resistant, heat resistant	昂贵 Expansive
球铁镀铬 Chrome plated ductile iron	-30~350℃	▲	▲	■	●	■	●	■	▲	★	▲	★	★	■	耐热 Heat resistant	低 Low
球铁尼龙覆层 Nylon coated ductile iron	-30~95℃	★	★	★	★	★	★	★	★	■	★	●	★	★	耐腐蚀、耐磨、减少摩擦 Corrosion resistant, wear resistant, reduction	较低 Low
球铁氧化聚醚覆层 Oxidized polyether coating ductile iron	-30~120℃	★	★	★	★	★	★	★	★	★	★	■	★	★	耐腐蚀、耐磨 Strong corrosion resistant, wear resistant	较低 Low
球铁四氟覆层 PTFE coated ductile iron	-30~160	★	★	★	★	★	★	★	★	★	★	★	★	★	耐腐蚀、耐热 Strong corrosion resistant, heat resistant	昂贵 Expansive
铝青铜 Aluminum bronze	-273~232℃	★	◆	■	●	■	●	▲	★	★	★	★	★	■	耐热、耐腐蚀 Heat resistant, corrosion resistant	高 High
不锈钢 Stainless steel	-268~538℃	★	◆	■	■	▲	■	★	★	★	★	★	★	★	耐高温、耐腐蚀 High temperature resistant, corrosion resistant	高 High
碳钢镀铬 Carbon steel chrome plating	-29~425℃	▲	●	■	●	■	■	■	▲	★	▲	★	★	■	耐高温 High temperature resistant	较低 Low

符合说明:*非常适用;▲◆适用(其中◆当流速大于1.5M/S时不适用);■有限适用;●不适用0
Very suitable, suitable, relevant suitable, not suitable

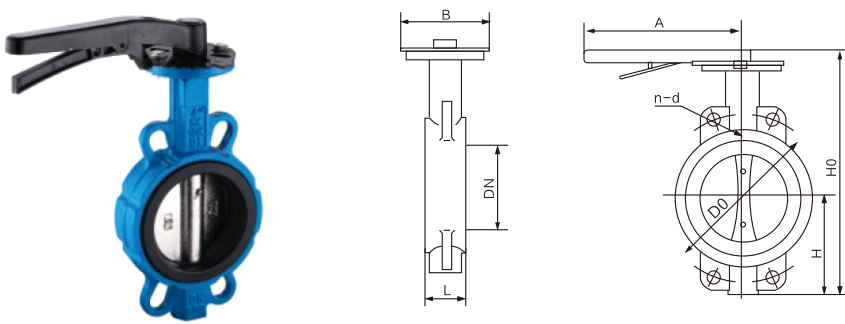
曲线流量图 Flow rate curve



Cv值定义 Definition of CV value:
当阀门全开时，阀门两端压差为1磅/英寸2
When the valve is fully open, pressure difference between two ends of valve is 1 LBS/inch2
流体用60° F 的清水时，通过阀门的美加仑/分的流量数。
Fluid is 60° F clean water, the fluid gets through the valve: Gallon/minute

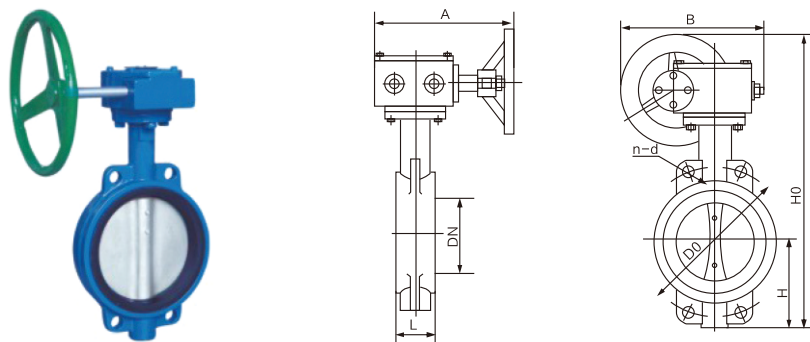
$$Cv = Q \sqrt{\frac{G}{\Delta P}}$$

Q: 最大流量 (美加仑/分) Max flow rate: Gallon/minute
G: 比重 (水=1) Density
 ΔP : 压力降 (磅/英寸²) Pressure drop (LBS/inch²)



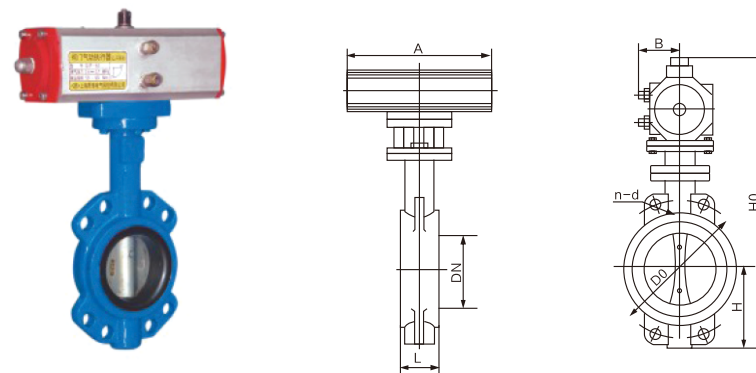
D71X-10 对夹式软密封蝶阀主要外形连接尺寸
16 Main connection dimension of center line wafer soft sealed butterfly valve 单位: mm

DN	L	H	H0	A	B	0.6MPa		1.0MPa		1.6MPa	
						D0	n-d	D0	n-d	D0	n-d
50	43	63	235	270	110	110	4-14	125	4-18	125	4-18
65	46	70	250	270	110	130	4-14	145	4-18	145	4-18
80	46	83	275	270	110	150	4-18	160	8-18	160	8-18
100	52	105	316	270	110	170	4-18	180	8-18	180	8-18
125	56	115	340	310	110	200	8-18	210	8-18	210	8-18
150	56	137	376	310	110	225	8-18	240	8-22	240	8-22
200	60	164	430	353	150	280	8-18	295	8-22	295	12-22
250	68	206	499	353	150	335	12-18	350	12-22	355	12-26
300	78	230	570	380	150	395	12-22	400	12-22	410	12-26



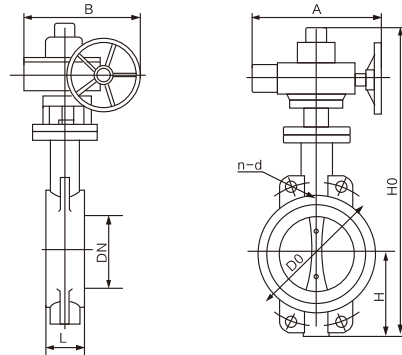
D371X-10 对夹式蜗轮传动软密封蝶阀主要外形连接尺寸 单位: mm
16 Main connection dimension of wafer type soft sealed butterfly valve with worm gearbox

DN	L	H	H0	A	B	0.6MPa		1.0MPa		1.6MPa	
						D0	n-d	D0	n-d	D0	n-d
50	43	63	306	180	200	110	4-14	125	4-18	125	4-18
65	46	70	321	180	200	130	4-14	145	4-18	145	4-18
80	46	83	346	180	200	150	4-18	160	8-18	160	8-18
100	52	105	387	180	200	170	4-18	180	8-18	180	8-18
125	56	115	411	180	200	200	8-18	210	8-18	210	8-18
150	56	137	447	270	280	225	8-18	240	8-22	240	8-22
200	60	164	572	270	280	280	8-18	295	8-22	295	12-22
250	68	206	646	270	280	335	12-18	350	12-22	355	12-26
300	78	230	738	380	420	395	12-22	400	12-22	410	12-26
350	78	248	761	380	420	445	12-22	460	16-22	470	16-26
400	102	289	877	450	470	495	16-22	515	16-26	525	16-30
450	114	320	938	480	490	550	16-22	565	20-26	585	20-30
500	127	343	993	480	490	600	20-22	620	20-26	650	20-33
600	154	413	1131	480	490	705	20-26	725	20-30	770	20-36
700	165	478	1476	640	660	810	24-26	840	24-30	840	24-36
800	190	525	1533	640	660	920	24-30	950	24-33	950	24-39
900	203	585	1655	750	860	1020	24-30	1050	28-33	1050	28-39
1000	216	640	1765	850	900	1120	28-30	1160	28-36	1170	28-42
1200	254	755	1995	850	900	1340	32-33	1380	32-39	1390	32-48



D671X-10 对夹式气动软密封蝶阀主要外形连接尺寸 单位: mm
16 Main connection dimension of wafer pneumatic soft sealed butterfly valve

DN	L	H	H0	A	B	0.6MPa		1.0MPa		1.6MPa	
						D0	n-d	D0	n-d	D0	n-d
50	43	63	315	180	65	110	4-14	125	4-18	125	4-18
65	46	70	330	180	65	130	4-14	145	4-18	145	4-18
80	46	83	390	240	75	150	4-18	160	8-18	160	8-18
100	52	105	431	240	75	170	4-18	180	8-18	180	8-18
125	56	115	455	240	75	200	8-18	210	8-18	210	8-18
150	56	137	626	350	93	225	8-18	240	8-22	240	8-22
200	60	164	720	350	93	280	8-18	295	8-22	295	12-22
250	68	206	800	550	350	335	12-18	350	12-22	355	12-26
300	78	230	860	600	350	395	12-22	400	12-22	410	12-26
350	78	248	883	600	350	445	12-22	460	16-22	470	16-26
400	102	289	972	600	350	495	16-22	515	16-26	525	16-30
450	114	320	1043	750	380	550	16-22	565	20-26	585	20-30
500	127	343	1098	750	380	600	20-22	620	20-26	650	20-33
600	154	413	1236	750	380	705	20-26	725	20-30	770	20-36
700	165	478	1431	750	380	810	24-26	840	24-30	840	24-36
800	190	525	1488	750	380	920	24-30	950	24-33	950	24-39
900	203	620	1615	1250	380	1020	24-30	1050	28-33	1050	28-39
1000	216	725	1765	1500	580	1120	28-30	1160	28-36	1170	28-42
1200	254	780	1976	1500	580	1340	32-33	1380	32-39	1390	32-48



D971X-6 对夹式电动软密封蝶阀主要外形连接尺寸
16 Main connection dimension of wafer electric soft sealed butterfly valve

单位: mm

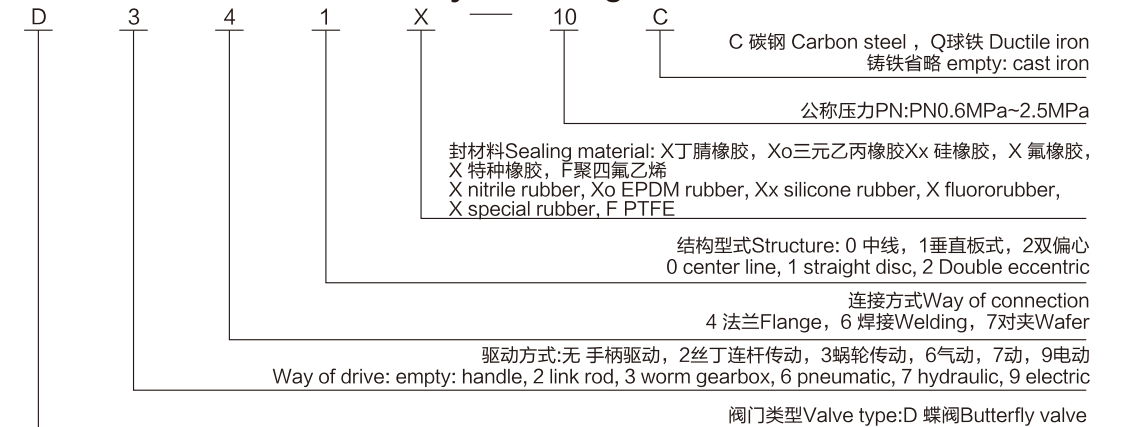
DN	L	H	H0	A	B	0.6MPa		1.0MPa		1.6MPa	
						D0	n-d	D0	n-d	D0	n-d
50	43	63	438	125	125	110	4-14	125	4-18	125	4-18
65	46	70	453	125	125	130	4-14	145	4-18	145	4-18
80	46	83	478	125	125	150	4-18	160	8-18	160	8-18
100	52	105	519	125	125	170	4-18	180	8-18	180	8-18
125	56	115	713	325	245	200	8-18	210	8-18	210	8-18
150	56	137	749	325	245	225	8-18	240	8-22	240	8-22
200	60	164	843	325	245	280	8-18	295	8-22	295	12-22
250	68	206	947	363	313	335	12-18	350	12-22	355	12-26
300	78	230	1013	363	313	395	12-22	400	12-22	410	12-26
350	78	248	1046	363	313	445	12-22	460	16-22	470	16-26
400	102	289	1135	363	313	495	16-22	515	16-26	525	16-30
450	114	320	1328	465	439	550	16-22	565	20-26	585	20-30
500	127	343	1226	546	481	600	20-22	620	20-26	650	20-33
600	154	413	1394	546	556	705	20-26	725	20-30	770	20-36
700	165	478	1534	546	556	810	24-26	840	24-30	840	24-36
800	190	525	1159	546	556	920	24-30	950	24-33	950	24-39
900	203	585	1748	617	706	1020	24-30	1050	28-33	1050	28-39
1000	216	640	1805	632	706	1120	28-30	1160	28-36	1170	28-42
1200	254	755	2035	632	706	1340	32-33	1380	32-39	1390	32-48

产品概述 Product general description

我公司研制的软密封中线对夹式蝶阀，双偏心法兰式蝶阀结构紧凑，90回转开关轻松，密封可靠，使用寿命长，被广泛用于水厂、电厂、钢厂、造纸、化工、食品等系统供排水中，作为调节和截止使用。

The soft-sealed center line wafer-type butterfly valve and double-eccentric flange butterfly valve developed by our company have compact structure, easy 90-turn switch, reliable sealing and long life span. They are widely used as regulating and throttling devices in water supply and drainage of water plants, power plants, steel plants, paper making plants, chemical industry, food and other systems.

产品型号编制方法 Models and way of coding



特点 Features

- 1、本阀采用双偏心结构，具有越关越紧的密封功能，密封性能可靠。
This valve adopts a double eccentric structure, the sealing function can be more tighter as it more closed, and has reliable sealing performance.
- 2、密封副材料选用不锈钢和丁腈耐油橡胶配对，使用寿命长。
The materials of auxiliary sealing are stainless steel combine nitrile oil-resistant rubber, which has a long life span.
- 3、橡胶密封圈即可位于阀体上，也可以位于蝶板上，可适用不同特点的介质，供用户选择。
The rubber sealing ring can be located on the body or on the disc, which can be used for different medium for users to choose.
- 4、蝶板采用框架结构，强度高，过流面积大，流阻小。
The disc adopts a frame structure with high strength, large flow area and small flow resistance.
- 5、整体烤漆，能有效地防止锈蚀且只要更换密封阀座材料，就可使用于不同介质。
The overall paint can effectively prevent rust and can be used for different mediums just need replace sealing material of the seat.
- 6、本阀具有双向密封功能，安装时不受介质流向的控制，也不受空间位置的影响，可在任何方向安装。
This valve has a bi-direction sealing function. It is not effected by the flow direction of the medium nor the installation position.
- 7、本阀结构独特，操作灵活，省力、方便。
This valve has a unique structure, flexible operation, labor-saving and convenient.

主要材料 Main materials

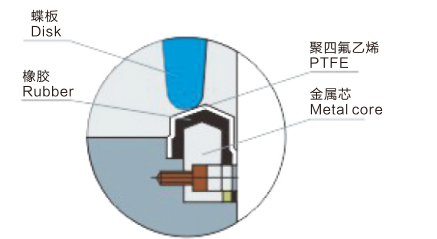
零件名称Name of parts	材料 Materials
阀体 Body	WCB、QT450-10、HT200、HT250
蝶板 Disc	WCB、QT450-10、HT200、HT250
阀轴 Stem	2Cr13
密封圈 Sealing ring	丁腈耐油橡胶 Nitrile oil resistant rubber
填料 Packing	柔性石墨 Flexible graphite

执行标准 Executive standard

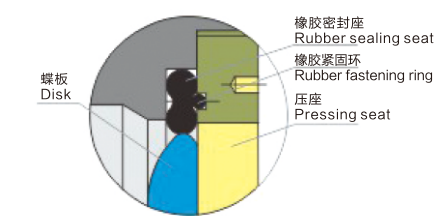
制造标准 Production Standard	GB/T 12238-89
法兰标准 Flange standard	GB9113-2000、GB172416-1998
结构长度标准 Structural length standard	GB12221-89
检验标准 Test standard	GBIT 13927-92

主要技术参数 Main technical parameters

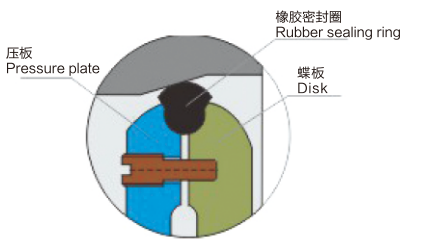
公称通径DN(mm)	50-2000		50-1600
公称压力PN(MPa)	0.6	1.0	1.6
密封试验 Sealing test(MPa)	0.66	1.1	1.76
强度试验 Strength test(MPa)	0.9	1.5	2.4
适用温度 Applicable temperature	丁腈橡胶 Nitrile rubber:-40℃~90℃，氟橡胶 FKM:-20℃~200℃		
适用介质 Applicable Medium	水、空气、天然气、食品、药品、各种油类、酸类 Water, Air, Nature Air, Food, Pharmaceutic, various of oil, acids		
泄漏率 Rate of leakage	符合GBIT 13927-92标准Standard		
驱动方式 Way to actuate	蜗轮传动、电动、气动、液动 Worm gear drive, Electric, Pneumatic, Hydraulic		



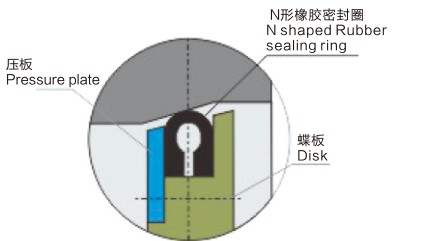
J形橡胶密封圈是将密封圈做在阀座上的一种密封形式，密封圈由金属母材外包覆聚四氟乙烯及特种硫化橡胶层组成。金属芯使蝶板有足够的刚性聚四氟乙烯的软硬过渡，以及橡胶层的弹性补偿确保阀门的可靠密封。The J-shaped rubber sealing ring is a sealing form that fix the sealing ring on the seat. The sealing ring is composed of metal basic material coating with PTFE and vulcanized rubber layer. The metal core makes the butterfly plate have enough rigidity, PTFE works as a soft and hard transition, and the elastic compensation from the rubber layer to ensure the reliable seal of the valve.



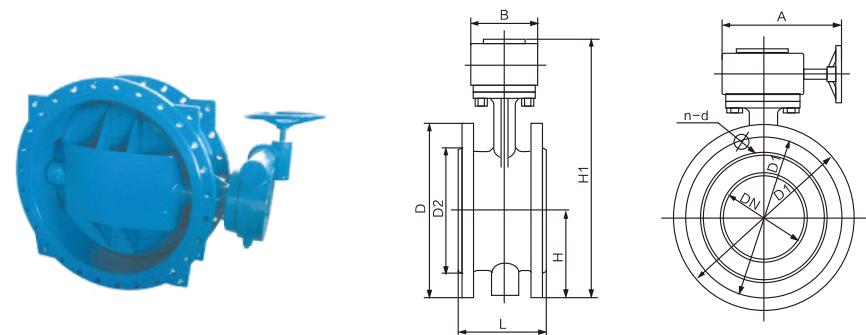
哑铃形橡胶密封圈是将密封圈做在阀座上的种密封形式。哑铃形密封圈用O型橡胶紧固环限制阻止密封圈滑出沟槽。该结构密封性能特别好，使用寿命长，但只限于低压，常温的管路系统。密封圈更换容易，方便维修。A dumbbell rubber ring is a seal that puts the ring on the seat. Use an o-type rubber fastening ring to prevent the sealing ring slipping out of the groove. This structure has particularly good sealing performance and long life span, but it is only used for low pressure and normal temperature pipeline. Seal ring is easy to replace and repair.



扇形弹性橡胶密封圈是将密封圈做在蝶板上的一种密封形式。密封圈的配合可用螺栓调节，当阀经过一段时间的使用后，密封面有一定的磨损此时拧紧螺栓挤压扇形弹性橡胶密封圈，补偿磨损余量，延长阀门寿命。The fan-shaped elastic rubber seal is a kind of seal made on the disc. The sealing ring can be adjusted by bolts. When the valve has been used for a period of time, the sealing surface will be worn a little bit. At this time, tighten the bolts to squeeze the fan-shaped elastic rubber sealing ring to compensate for the wear margin and extend the life of the valve.



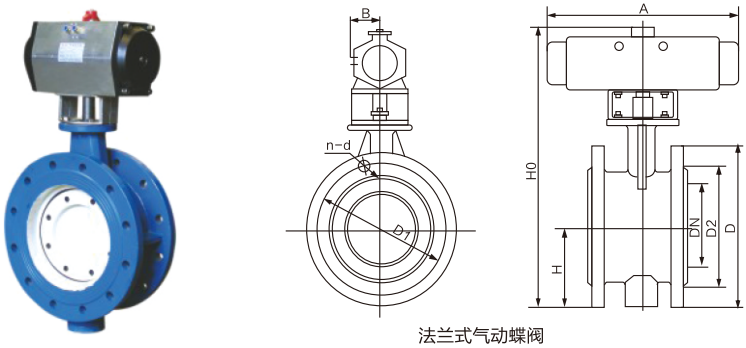
N形高弹性密封圈是将密封圈做在蝶板上的一种形式，N形高弹性密封圈用压板压住，并用螺栓固定，内部镶嵌金属钢丝索加强环，既有柔性又能防止密封圈径向胀缩。适合于中、高压管路系统。N-shaped high elastic sealing ring is a form of sealing ring put on the disc. The N-shaped high elastic sealing ring is pressed by a pressure plate and fixed with bolts. The metal wire reinforcement ring is embedded inside. It is flexible and no radial expansion or shrinkage on the sealing ring. It is suitable for medium and high pressure pipeline.



FBGX (D342X) - 10 蜗轮传动软密封蝶阀主要外形连接尺寸
16 Main connection dimension of worm gear drive soft sealed butterfly valve 单位: mm

DN	L	H	H1	A	B	0.6MPa				1.0MPa				1.6MPa			
						D	D1	D2	n-d	D	D1	D2	n-d	D	D1	D2	n-d
50	108	82.5	306	80	80	140	110	88	4-14	165	125	99	4-18	165	125	99	4-18
65	112	92.5	321	80	80	160	130	108	4-14	185	145	118	4-18	185	145	118	4-18
80	114	100	346	80	80	190	150	124	4-18	200	160	132	8-18	200	160	132	8-18
100	127	110	387	95	95	210	170	144	4-18	220	180	156	8-18	220	180	156	8-18
125	140	125	411	95	95	240	200	174	8-18	250	210	184	8-18	250	210	184	8-18
150	140	142.5	447	95	95	265	225	199	8-18	285	240	211	8-22	285	240	211	8-22
200	152	170	607	190	308	320	280	254	8-18	340	295	266	8-22	340	295	266	12-22
250	165	192.5	688	190	308	375	335	309	12-18	395	350	319	12-22	405	355	319	12-26
300	178	222.5	742	190	308	440	395	363	12-22	445	400	370	12-22	460	410	370	12-26
350	190	252.5	797	190	308	490	445	413	12-22	505	460	429	16-22	520	470	429	16-26
400	216	282.5	930	270	466	540	495	463	16-22	565	515	480	16-26	580	525	480	16-30
450	222	307.5	975	270	466	595	550	518	16-22	615	565	530	20-26	640	585	548	20-30
500	229	335	1065	270	466	645	600	568	20-22	670	620	582	20-26	715	650	609	20-33
600	267	390	1225	457	625	755	705	667	20-26	780	725	682	20-30	840	770	720	20-36
700	292	447.5	1343	457	625	860	810	772	24-26	895	840	794	24-30	910	840	794	24-36
800	318	507.5	1436	457	625	975	920	878	24-30	1015	950	901	24-33	1025	950	901	24-39
900	330	557.5	1616	598	853	1075	1020	978	24-30	1115	1050	1001	28-33	1125	1050	1001	28-39
1000	410	615	1711	598	853	1175	1120	1078	28-30	1230	1160	1112	28-36	1255	1170	1112	28-42
1200	470	727.5	1971	598	853	1405	1340	1295	32-33	1455	1380	1328	32-39	1485	1390	1328	32-48
1400	530	837.5	2218	860	1345	1630	1560	1510	36-36	1675	1590	1530	36-42	1685	1590	1530	36-48
1600	600	957.5	2578	860	1345	1830	1760	1710	40-36	1915	1820	1750	40-48	1930	1820	1750	40-56
1800	670	1057.5	2689	860	1345	2045	1970	1918	44-39	2115	2020	1950	44-48	2130	2020	1950	44-56
2000	760	1162.5	3022	952	1592	2265	2180	2125	48-42	2325	2230	2150	48-48	2345	2230	2150	48-62

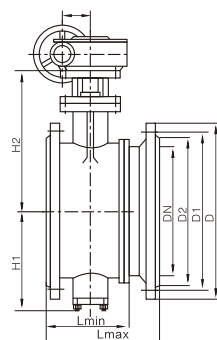
注: 可根据用户要求从DN250~3000生产 (GB12221-89) 长系列, 从DN1200~3000带底脚的需注明。



FBGX (D642X) - 10 气动软密封蝶阀主要外形连接尺寸
16 Main connection dimension of Pneumatic soft sealed butterfly valve 单位: mm

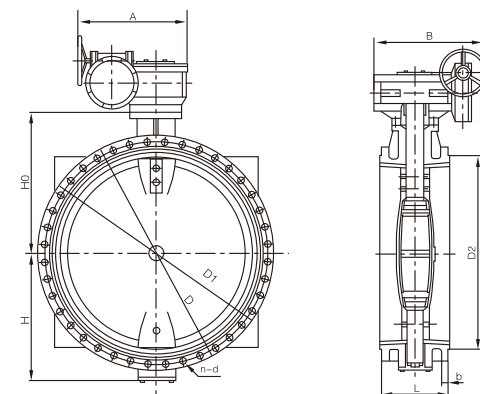
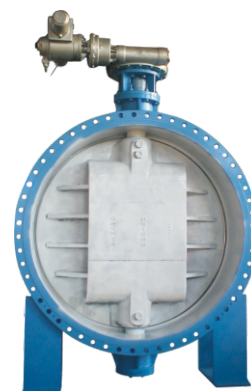
DN	L	H	H0	A	B	0.6MPa				1.0MPa				1.6MPa			
						D	D1	D2	n-d	D	D1	D2	n-d	D	D1	D2	n-d
50	108	82.5	338	180	65	140	110	88	4-14	165	125	99	4-18	165	125	99	4-18
65	112	92.5	358	180	65	160	130	108	4-14	185	145	118	4-18	185	145	118	4-18
80	114	100	413	240	72	190	150	124	4-18	200	160	132	8-18	200	160	132	8-18
100	127	110	428	240	72	210	170	144	4-18	220	180	156	8-18	220	180	156	8-18
125	140	125	444	240	72	240	200	174	8-18	250	210	184	8-18	250	210	184	8-18
150	140	142.5	553	350	93	265	225	199	8-18	285	240	211	8-22	285	240	211	8-22
200	152	170	678	350	93	320	280	254	8-18	340	295	266	8-22	340	295	266	12-22
250	165	192.5	742	550	350	375	335	309	12-18	395	350	319	12-22	405	355	319	12-26
300	178	222.5	803	600	350	440	395	363	12-22	445	400	370	12-22	460	410	370	12-26
350	190	252.5	866	600	350	490	445	413	12-22	505	460	429	16-22	520	470	429	16-26
400	216	282.5	940	600	350	540	495	463	16-22	565	515	480	16-26	580	525	480	16-30
450	222	307.5	995	750	380	595	550	518	16-22	615	565	530	20-26	640	585	548	20-30
500	229	335	1058	750	380	645	600	568	20-22	670	620	582	20-26	715	650	609	20-33
600	267	390	1163	750	380	755	705	667	20-26	780	725	682	20-30	840	770	720	20-36
700	292	447.5	1283	750	380	860	810	772	24-26	895	840	794	24-30	910	840	794	24-36
800	318	507.5	1398	750	380	975	920	878	24-30	1015	950	901	24-33	1025	950	901	24-39
900	330	557.5	1498	1250	380	1075	1020	978	24-30	1115	1050	1001	28-33	1125	1050	1001	28-39
1000	410	615	1608	1500	580	1175	1120	1078	28-30	1230	1160	1112	28-36	1255	1170	1112	28-42
1200	470	727.5	1876	1500	580	1405	1340	1295	32-33	1455	1380	1328	32-39	1485	1390	1328	32-48

注: 可根据用户要求从DN250~3000生产 (GB12221-89) 长系列, 从DN1200~3000带底脚的需注明。



DS341X-10 C、P、R 法兰式伸缩蝶阀主要外形连接尺寸 单位: mm
Main connection dimensions of flanged extendable butterfly valve

DN	D	D1	D2	Lmax	Lmin	H1	H2	n-d
100	220	180	156	216	174	110	170	8-18
125	250	210	184	232	186	123	182	8-18
150	285	240	211	239	194	140	210	8-22
200	340	295	266	264	214	170	238	8-22
250	395	350	319	296	235	195	270	12-22
300	445	400	370	300	250	222	300	12-22
350	505	460	429	320	270	252	330	16-22
400	565	515	480	332	282	285	368	16-26
450	615	565	530	355	305	310	402	20-26
500	670	620	582	365	315	337	438	20-30
600	780	725	685	420	340	393	490	24-30
700	895	840	794	446	396	450	558	24-33
800	1015	950	901	476	426	515	625	28-33
900	1115	1050	1001	506	456	560	685	28-33
1000	1230	1160	1112	516	466	610	750	28-36
1200	1455	1380	1328	560	510	725	880	32-39
1400	1675	1590	1530	590	540	840	987	36-42
1600	1915	1820	1750	630	585	960	1158	40-48
1800	2115	2020	1950	680	630	1060	1258	44-48
2000	2325	2230	2150	730	680	1165	1365	48-48



D942X-10 大口径电动软密封蝶阀主要外形连接尺寸 单位: mm
Main connection dimensions of large size electric soft sealed butterfly valve

DN	L	H	H0	A	B	0.6MPa				1.0MPa				1.6MPa			
						D	D1	D2	n-d	D	D1	D2	n-d	D	D1	D2	n-d
2200	840	1665	4529	2057	1585	2405	2340	2295	52-33	2475	2390	2335	52-43	2550	2440	2370	52-56
2400	910	1778	4845	2057	1585	2605	2540	2495	56-33	2685	2600	2545	56-43	2760	2650	2570	56-56
2600	990	1865	5060	2057	1585	2805	2740	2695	60-33	2905	2810	2750	60-49	2960	2850	2780	60-56
2800	1070	2051	5960	2357	1905	3030	2960	2910	64-36	3115	3020	2960	64-49	3180	3070	3000	64-56
3000	1150	2189	6800	2357	1905	3230	3160	3110	68-36	3315	3220	3160	68-49	3405	3290	3210	68-62

注:可根据用户要求从DN250~3000生产(GB12221-89)长系列, 从DN1200~3000带底脚的需注明。
Remark: Long pattern can be produced for DN250~3000 according to the customer demand, if you need foot stand, please tell us.