



## WEISIDUN GROUP

集团总部：中国·郑州华南城中原电商大厦  
分工厂：上海·天津·温州·河北·大连  
驻外分公司：非洲·坦桑尼亚·肯尼亚

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Group headquarters: Central Plains E-Commerce Building, Zhengzhou South city, China  
Branch Factory: Shanghai, Tianjin, Wenzhou, Hebei, Dalian  
Branch Company In Overseas: Tanzania, Kenya in Africa

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WEISIDUN GROUP

DIN/JIS/ANSI/BS/GB Valve



DIN/JIS/ANSI/BS/GB Valve

WEISIDUN GROUP



## 企业简介 >> Brief Introduction

WeiSiDun Group. Headquartered in ZhengZhou, which is the geographical center of China, Central Plains hinterland, China's major railways, aviation, highways, electricity, post and telecommunications hub cities, International Air Logistics Center, also an international land port city!

Group consists of six companies, in addition to HeNan WeiSiDun Import and Export Trading Co., Ltd. which is specialized in the import and export of foreign trade, the other five companies all producing factories, Hebei iron valves branch, Wenzhou casting

steel valves, Tianjin butterfly valves, Dalian pipe fittings branch and Ningbo Instrument branch. Beyond that, we also have two branches abroad. One is in Tanzania, the other is in Kenya.

The major products for a variety of valves of cast iron, steel, stainless, steel, copper materials; malleable iron and stainless steel pipe fittings; ductile iron, stainless steel fittings; flanges and other products, mainly used in construction, petroleum, chemical, power, water supply and drainage, municipal, medical people's livelihood and other industries.

The company is equipped with mechanical processing center, physical and chemical center. Each production is charged by a specific department, which makes the pass rate reach 100%. High quality not only bring competitive advantage for us, but also provide economic benefit and guarantee for our customers.

2015, In order to better serve Africa, the huge potential market, our Group set up its own office in Africa , as the goal for the service and push the construction and development of Africa.

In the spirit of "Science and technology constitutes the first productive force". Our company has always made full use of high technology to improve our products, taken the needs of customers at the foremost. The company's goal is: wholeheartedly serve the customer. We sincerely welcome all the friends from home and abroad to cooperate each other and create a bright future.



生产车间 »»  
Production workshop

The pursuit of excellence, continuous innovation, to build Weisidun valve brand

追求卓越，不断创新，全力打造威斯盾阀门品牌



我们深知设备对企业发展的重要，多年来一直不遗余力的对软硬件设施进行更新研发。不但引进了国外各种先进设备和生产技术，同时还对专用装备进行开发，自动连续化生产线已经实现。生产体系的完善构筑，使企业在行业更专业也更全面。

We know to the enterprise development important equipment, has for years been sparing no effort to update the software and hardware facilities development. Not only the introduction of foreign advanced equipment and production technology, and also of special equipment for development, automatic continuous production line has been achieved. The improvement of the production system construction, make the enterprise line has a more professional and more comprehensive.





## 质量检测 Quality Inspection

**Perfect quality from the product of professional technical testing**

完美的品质源于对产品专业的技术检测

威斯盾对每一个产品都进行严格的检测，检测员高度负责的用心溶于每一个部件中，加上最先进的检测设备和严格的科学化管理，使每一个生产的成品经得住顾客的精心挑选。威斯盾人庄严承诺让每一个生产产品都达到出厂标准，这正是威斯盾产品得以畅销的秘诀所在。

Weisidun of rigorous testing of each product. Inspector highly responsible carefully dissolved in every part, coupled with the most advanced detection equipment and strict scientific management, so that each production of refined withstand customer carefully selected. Weisidun solemn promise to let each production products meet the standard factory. This is the secret of Weisidun products selling.





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多标准体对夹蝶阀  
Multi-standard wafer butterfly valve



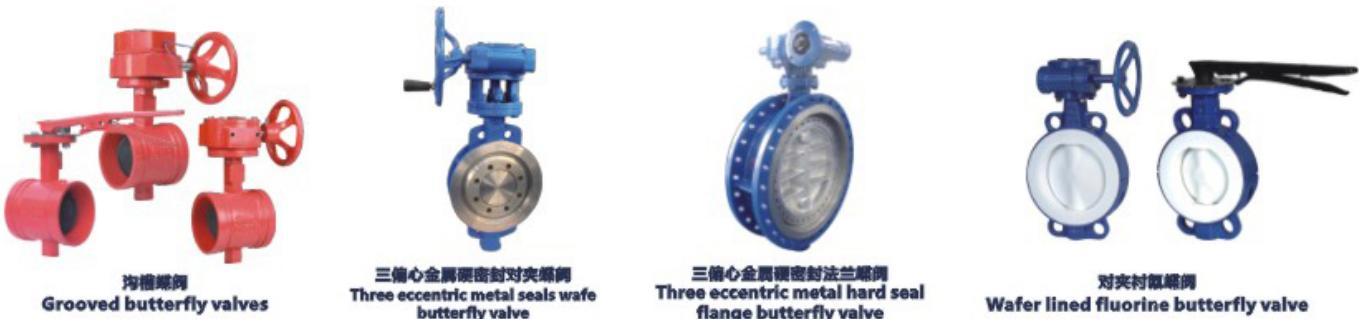
凸耳式对夹蝶阀  
Lug type wafer butterfly valve



双法兰蝶阀  
Double flange butterfly valve



防结露蝶阀  
Anti-knot dew butterfly valve



沟槽蝶阀  
Grooved butterfly valves

三偏心金属硬密封对夹蝶阀  
Three eccentric metal seals wafe butterfly valve

三偏心金属硬密封法兰蝶阀  
Three eccentric metal hard seal flange butterfly valve

对夹氟蝶阀  
Wafer lined fluorine butterfly valve



双法兰衬氟蝶阀  
Double flange lined fluorine butterfly valve

国标软密封闸阀  
GB soft-seal gate valve

德标软密封闸阀F4  
DIN soft-seal gate valve(F4)

德标软密封闸阀F5  
DIN soft-seal gate valve(F5)



德标铸铁硬密封闸阀F4  
DIN Cast iron hard seal gate valve F4

德标铸铁硬密封闸阀F5  
DIN Cast iron hard seal gate valve F5

日标铸铁闸阀  
JIS Cast iron gate valve

英标软密封闸阀  
BS Soft sealing gate valve



美标硬密封闸阀  
ANSI hard sealing gate valve

美标软密封闸阀200PSI  
ANSI soft sealing gate valve 200PSI

美标软密封闸阀300PSI  
ANSI soft sealing gate valve 300PSI

美标铸阀/不锈钢闸阀  
ANSI Cast steel/stainless steel gate valves



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德标铸钢/不锈钢闸阀F4  
DIN Cast steel/stainless steel gate valve F4

德标铸钢/不锈钢闸阀F5  
DIN Cast steel/stainless steel gate valve F5

日标铸钢/不锈钢闸阀10K  
JIS Cast steel/stainless steel gate valve 10K

锻造法兰闸阀  
Forged steel flange gate valve



锻钢丝扣/焊接闸阀  
Forged steel threaded /weld gate valve

手动凸耳/法兰式刀型闸阀  
Manual lug/flanged knife gate valve

气动刀型闸阀  
Pneumatic knife gate valve

电动刀型闸阀  
Electric knife gate valve

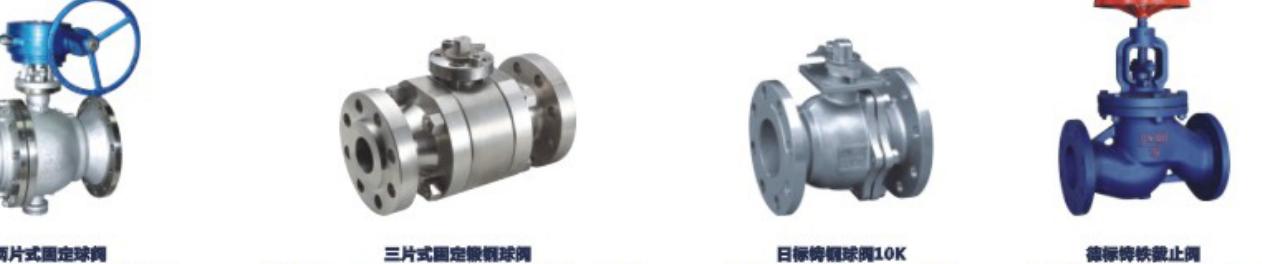


德标铸铁球阀  
DIN Cast iron ball valve

日标铸铁球阀  
JIS Cast iron ball valve

美标铸铁球阀  
ANSI Cast iron ball valve

美标铸钢/不锈钢球阀  
ANSI Cast steel/stainless steel ball valves



两片式固定球阀  
2PC Trunnion mounted ball valve

三片式固定球阀  
3PC Trunnion mounted forged steel ball valve

日标铸钢球阀10K  
JIS Cast steel ball valve 10K

德标铸铁截止阀  
DIN Cast iron globe valve



美标铸铁截止阀  
ANSI Cast iron globe valve

日标铸铁截止阀10K  
JIS Cast iron globe valve 10K

美标铸钢/不锈钢截止阀  
ANSI Cast steel/stainless steel globe valves

德标铸钢/不锈钢截止阀  
DIN Cast steel/stainless steel globe valves



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日标铸钢/不锈钢截止阀  
JIS Cast steel/stainless steel globe valves  
锻造法兰截止阀  
Forged steel flange globe valve  
锻造丝扣/焊接旋启式止回阀  
Forged thread /weld globe valve  
德标铸铁旋启式止回阀  
DIN Cast iron swing check valve



美标铸铁旋启式止回阀  
ANSI Cast iron swing check valve  
英标铸铁旋启式止回阀  
BS Cast iron swing check valve  
日标铸铁旋启式止回阀10K  
JIS Cast iron swing check valve 10K  
球形止回阀  
Ball check valve



橡胶蝶止回阀  
Rubber disc check valve  
对夹式止回阀  
Wafer type check valve  
美标铸钢/不锈钢旋启式止回阀  
ANSI Cast steel / stainless steel swing check valve  
日标铸钢/不锈钢旋启式止回阀  
JIS Cast steel / stainless steel swing check valve



锻造法兰旋启式止回阀  
Forged steel flange swing check valve  
锻造丝扣/焊接旋启式止回阀  
Forged steel thread /welded swing check valve  
底阀  
Foot Valve  
底阀  
Foot Valve



1片式丝扣球阀  
1PC Threaded ball valve  
2片式丝扣球阀  
2PC Threaded ball valve  
3片式丝扣球阀  
3PC Threaded ball valve  
丝扣闸阀  
Threaded gate valve



丝扣截止阀  
Thread globe valve  
丝扣止回阀  
Thread check valve  
丝扣过滤器  
Thread strainer  
德标铸铁过滤器  
DIN Cast iron strainer



美标铸铁过滤器  
ANSI Cast iron strainer  
日标铸铁过滤器  
JIS Cast iron strainer  
美标铸钢/不锈钢过滤器  
ANSI Cast steel/stainless steel strainer  
日标铸钢/不锈钢过滤器  
JIS Cast steel/stainless steel strainer



单口法兰/丝扣排气阀  
Single flange/thread bleed valve  
双球排气阀、复合式排气阀  
Double ball air valve, combined air vent valve  
100X遥控浮球阀  
100X Remote control float valve  
电动遥控浮球阀  
Electric remote float valve



200X减压阀  
200X pressure reducing valve  
300X缓闭逆止阀  
300X slow closing reverse valve  
400X流量控制阀  
400X Flow control valve  
500X泄压/特压阀  
500X Pressure relief/pressure valve



600X水力电动控制阀  
600X hydraulic electric control valve  
700X水泵控制阀  
700X pump control valve  
800X压差旁通平衡阀  
800X Pressure differential bypass balancing valve  
900X紧急关闭阀  
900X emergency shut-in valve  
745X活塞式多功能水泵控制阀  
745X piston type multi-function pump control valve



# Air release valve series

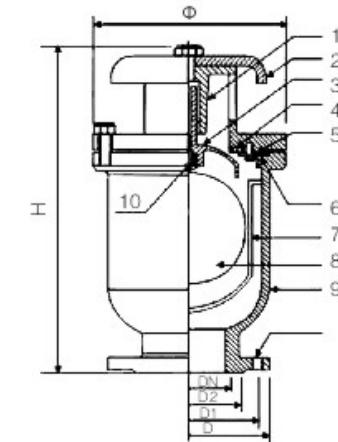
## 排气阀系列

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新型复合式排气阀  
Single flange/thread bleed valve



### 产品概述 Product Overview

本产品用于管路上的最高点或者有闭气的和泵的出口处，来排除管内的气体来疏通管道，使管道达到正常工作，如不装排气阀，管道随时出现气阻，使管道出水容量达不到设计要求。其次：管道在运转时出现停电，停泵管道及时出现负压会引起管道振动或破裂，排、进气阀就迅速把空气吸入管内，防止管道振动或破裂。

This product is used at the highest point on the pipeline or at the outlet of the closed air and pump to remove the gas in the pipeline to dredge the pipeline and make the pipeline work normally. If the exhaust valve is not installed, the pipeline will appear air resistance at any time, so that the water output capacity of the pipeline cannot meet the design requirements. Secondly: the pipeline in the operation of power failure, stop the pump pipeline in time negative pressure will cause vibration or rupture of the pipeline, the exhaust, inlet valve quickly inhaled the air in the pipe, to prevent vibration or rupture of the pipeline.

### 作用原理 Action principle

复合式排气阀它必须设有两孔一大一小，大孔与通径孔基本相同，管道首次通水有大量气体往外排，这些气体是从大孔排出。当气体排完后，大孔停止排气，管道在正常运转时，管内自然会产生负压。管内需要大量空气，浮球顺水下降，打开小孔带动大孔进行大量的进气确保管道安全。

注：排气阀在使用过程中压力不低于0.02MPa,如低于0.02MPa排气阀容易漏水，该阀必须配一只阀门作为检修用。

The compound exhaust valve must be equipped with two holes, one big and one small, the big hole and the diameter hole are basically the same, the pipeline first water has a lot of gas to discharge, these gases are discharged from the big hole. When the gas exhaust, the big hole stop exhaust, pipe in normal operation, the tube will naturally produce negative pressure. A large amount of air is needed in the pipe, and the float ball drops down with the water, opening the small hole and driving the large hole to conduct a large amount of air intake to ensure the safety of the pipe.

Note: the pressure of the exhaust valve should not be less than 0.02mpa in the process of use. If the exhaust valve is prone to water leakage, it must be equipped with a valve for maintenance.

### 技术参数 Technical parameters

技术参数 Technical parameters	
工作压力 Working pressure	1.6/2.5Mpa
介质 Medium	水
使用温度 Working temperature	≤ 80°C



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### 新型复合式排气阀 Single flange/thread bleed valve

主要零件材质 Material Specifications

NO.	部件 Parts	材料 Material
1	防雨盖 Rain proof cover	QT450/WCB
2	阀盖 Bonnet	QT450/WCB
3	导杆塞头 Guide rod plug	304
4	密封圈 Seal ring	Rubber
5	密封压板 Sealing plate	304
6	密封垫 Gasket	PTFE
7	密封头 Sealing head	Rubber
8	球桶 Ball barrels	304
9	浮球 Float ball	304
10	阀体 Body	QT450/WCB

CARX-1.6型外形尺寸表  
CARX-1.6 type dimensions

DN	D	D1	D2	Φ	H	Z-Φ d
25	115	85	68	165	310	4-14
50	165	125	102	165	310	4-18
80	200	160	138	200	370	8-18
100	220	180	158	220	380	8-18
150	285	240	212	285	500	8-22
200	340	295	268	360	600	12-22
250	405	355	320	465	680	12-26
300	460	410	378	505	780	12-26
350	520	470	438	605	860	16-26
400	580	525	490	660	940	16-30

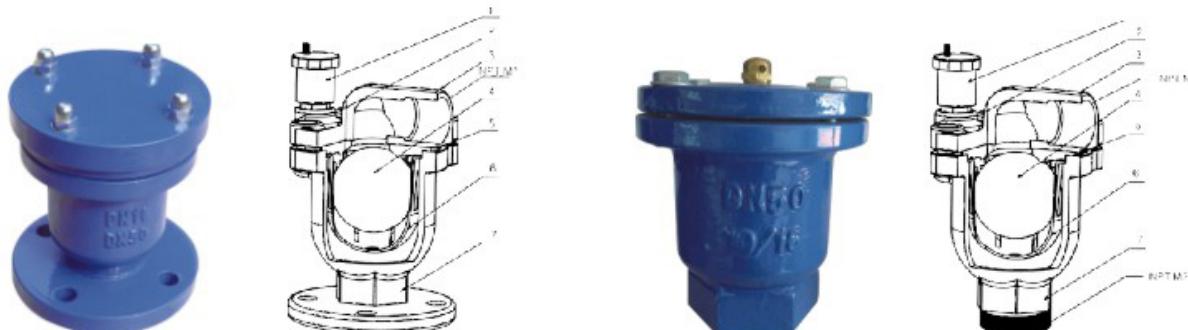
CARX-2.5型外形尺寸表  
CARX-2.5 type dimensions

DN	D	D1	D2	Φ	H	Z-Φ d
25	115	85	68	195	320	4-14
50	165	125	102	195	320	4-18
80	200	160	138	242	375	8-18
100	235	190	162	260	395	8-22
150	300	250	218	340	500	8-26
200	360	310	278	405	600	12-26
250	435	370	335	465	680	12-30
300	485	430	395	505	780	16-30
350	555	490	450	605	860	16-33
400	620	550	505	660	940	16-36



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### 单口法兰/丝扣排气阀 Single flange/thread bleed valve



#### 产品概述 Product Overview

排气阀应用于独立采暖系统、集中供热系统、采暖锅炉 中央空调 地板采暖及太阳能采暖系统等管道排气。因为水中通常都溶有一定的空气，而且空气的溶解度随着温度的升高而减少。这样水在循环的过程中气体逐渐从水中分离出来，并逐渐聚在一起形成大的气泡甚至气柱。因为有水的补充所以经常有气体产生。

Exhaust valves are usually applied on the pipelines of independent heating system, central heating supply system, heating boiler central air-conditioning, floor heating and air heating system. Because there are certain air soluble in water and the air solubility decrease when the temperature rise, then the air separate from water during water cycle, it gradually comes together to form larger bubbles or air column, it usually produce gas for the water supplement.

主要零件材质 Material Specifications

NO.	部件 Parts	材料 Material
1	铜空气阀 Copper air valve	黄铜 BRASS(HPB59-1)
2	螺栓 Bolt	碳钢 Carbon steel
3	阀盖 Bonnet	球墨铸铁 DI
4	球球 Ball	塑料 ABS
5	密封垫片 Seal Gasket	橡胶 EPDM
6	篮筐 Basket	聚乙烯 POLY
7	Body(阀体)	球墨铸铁 DI

#### 主要连接尺寸 Main connection Dimensions

DN	B	ΦD	ΦK	ΦG	N-ΦC
20	16	105	75	58	4-Φ14
25	16	115	85	68	4-Φ14
32	18	140	100	78	4-Φ18
40	18	150	110	88	4-Φ18
50	19	165	125	102	4-Φ18
80	20	200	160	138	8-Φ18
100	20	220	180	158	8-Φ18

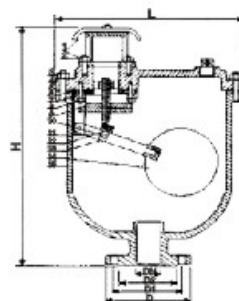
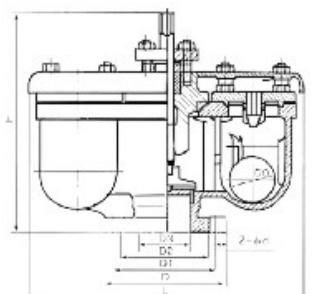
#### 主要连接尺寸 Main connection Dimensions

DN	M1	M2
20	NPT	NPT
25	NPT	NPT
32	NPT	NPT
40	NPT	NPT
50	NPT	NPT



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双球排气阀、复合式排气阀  
 Double ball air valve, combined air vent valve



产品概述 Product Overview

本阀适用于工作介质为水的管道上 作为排除管道内气体的设备 提高输送水设备的效率和保护管道不致变形、破裂。当管道负压时 本产品能自动吸入空气防止管道破裂；本阀由双口排气 排气量大；有自带检修阀 检修时关闭检修阀 可在线检修。

Air valves are applied on the water pipelines as the equipment to exclude the gas in pipelines, it enhances the efficiency of water transport and protect the pipelines from transformation and broke. When the pipeline under negative pressure, this valve will suction air automatically to prevent the pipeline broken. This valve has big gas displacement for double air vents, it owns maintenance valve, close it when repair then it can be on-line overhaul.

技术参数 Tech ca parameters

使用压力 Using the pressure	1.0MPa
试验压力 Test pressure	1.5MPa
适用介质 Applicable medium	清水 Clear water
适用温度 Suitable temperature	常温 Normal temperature
阀体 Body	灰铁 CI
浮球与塞头 Floating ball and stopper	不锈钢 Stainless steel

主要外形及连接尺寸 Main external and connecting dimensions(mm)

双球排气阀 Double Ball Air valve						
DN	D	D1	D2	L	H	Z-Φd
50	160	125	100	325	325	4-14
80	195	160	135	325	325	4-14
100	215	180	155	380	380	4-18
125	245	210	185	475	475	8-18
150	280	240	210	475	475	8-18
200	335	295	265	580	580	8-23

\*The above specifications to be varied to suit your specific requirements.

主要外形及连接尺寸 Main external and connecting dimensions(mm)

复合式排气阀 Combined Air Vent Valve						
DN	D	D1	D2	L	L1	H
25	115	85	65	235	180	355
50	160	125	102	325	205	450
80	195	160	138	365	235	500
100	215	180	158	385	258	535

根据管径大小选择不同规格排气阀

Choose different specifications according to pipe diameter size of exhaust valve

Size	输送水管 Water pipe Φ						
25	100-250	80	500-700	150	1200-1500	250	2200-2600
50	300-450	100	800-1000	200	1600-2000	300	2800-3400

# Hydraulic control valve series

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# 水力控制阀系列





结构特点 Structural features

水力控制阀就是用水压控制的阀门，它收一个主阀(如图1所示)及其附设的导管、导阀、针阀、球阀和压力表等组成。根据使用目的、功能及场所的不同可演变成遥控浮球阀、减压阀、缓闭止回阀、泄压阀、水力电动控制阀等。水力控制阀分隔膜型和活塞型两类，工作原理相同，都是以上下游压力差 $\Delta P$ 为动力，由导阀控制，使隔膜(活塞)液压式差动操作。完全由水力自动调节，从而使主阀阀盘完全开启或完全关闭或处于调节状态。当进入隔膜(活塞)上方控制室内的压力水被排到大气或下游低压区时，作用在阀盘底部和隔膜下方的压力值就大于上方的压力值，所以将主阀阀盘推到完全开启的位置；当进入隔膜(活塞)上方控制室内的压力水不能排到大气或下游低压区时，作用在隔膜(活塞)上方的压力值就大于下方的压力值，所以就会把主阀阀盘压到完全关闭的位置，当隔膜(活塞)上方控制室内的压力值处于入口压力与出口压力中间时，主阀阀盘就处于调节状态，其调节位置取决于异管系统中的针阀和可调导阀的联合控制作用。可调导阀可以通过下游的出口压力随它的变化而开大或关小其自身的小阀门，从而改变隔膜(活塞)上方控制的压力值，控制主阀阀盘的调节位置。

A hydraulic control valve is a valve that is controlled by water pressure, which takes a main valve (shown in figure 1) and its attached catheter, guide valve, needle valve, ball valve and pressure gauge. According to the use purpose, function and the difference of the place can be transformed into the remote control float ball valve, the pressure-reducing valve, the relief valve, the relief valve, the hydraulic electric control valve and so on. Hydraulic control valve diaphragm type and piston type two kinds, the working principle of the same, is more than the downstream pressure difference  $\Delta P$ , is controlled by a pilot valve, the diaphragm (piston) hydraulic differential operation, entirely by hydraulic automatic adjustment, so that the main valve valve fully open or fully closed or in a state of adjustment. When entering the diaphragm (piston) pressure of control room above the downstream of the water is discharged into atmosphere, or low pressure area, effect in the bottom of the valve plate above and below the diaphragm of the pressure value is greater than the pressure value, so the main valve plate to the fully open position; When entering the diaphragm (piston) pressure above the control room of water cannot be discharged into atmosphere, or downstream of the low pressure area, effect of the pressure on the top of the diaphragm (piston) value is greater than at the bottom of the pressure value, so will the pressure of the main valve disc to the fully closed position, when the diaphragm (piston) pressure of control room above the value in the inlet pressure and outlet pressure, the main valve disc is in a state of adjustment, adjust the position depends on the different needle valve in the pipe system and adjustable pilot valve joint control function. Adjustable valve can through the downstream outlet pressure and along with the change of it up or down its own small valve port, thus changing the diaphragm (piston) pressure above the control valve, control the regulation of the main valve disc position.

主要外形及连接尺寸 Main external and connecting dimensions(mm)

公称通径DN(mm)	25	32	40	50	60	80	100	125	150	200	250	300	350	400	450	500	600	700	800	
L	160	180	200	205	215	240	290	325	355	458	530	615	686	762	864	914	1068	1300	1450	
PN10	D	115	135	145	160	180	195	215	245	280	385	390	440	500	585	615	670	780	895	1010
D1	85	100	110	125	145	160	180	210	240	295	350	400	460	515	565	620	725	840	950	
PN16	D	115	135	145	160	180	195	215	245	280	335	405	480	520	580	640	705	840	910	1020
D1	85	100	110	125	145	160	180	210	240	295	355	410	470	525	585	650	770	940	950	
PN25	D	110	135	145	160	180	195	230	270	300	360	425	485	550	610	660	730	840	955	1070
D1	85	100	110	125	145	160	190	220	250	310	370	430	490	550	660	660	770	875	990	
H	172	172	265	265	310	350	460	520	570	695	780	595	1025	1080	1080	1135	1270	1460	1640	
H1	106	106	210	210	215	245	305	365	415	510	560	658	696	735	610	665	725	865	975	

注：安装示意图中弹性座封闸阀或伸缩蝶阀，任选。

Note: in the installation diagram, elastic block sealing gate valve or telescopic butterfly valve, optional.

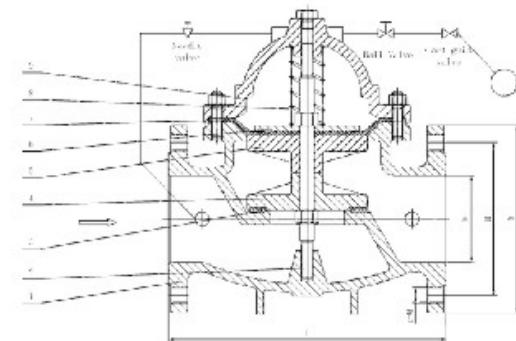
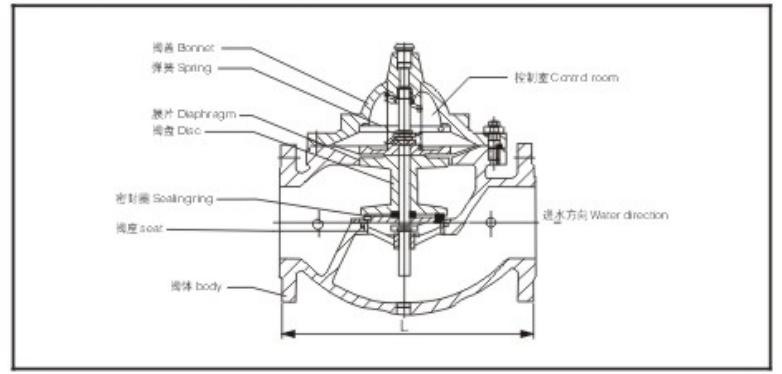
主要零件材质 Material Specifications

零件名称 Part name	材质 Material
阀体 Body	铸铁、铸钢、球铁 Cast iron, cast steel, ball iron
过滤器 Strainer	铜 Copper
调节阀 Control valve	铜 Copper
阀杆 Stem	不锈钢 Stainless steel
膜片及压板 Diaphragm and pressure plate	丁腈橡胶、球铁 Nitrile rubber, ball iron
上盖 On cover	球铁、青铜 Iron and bronze
缓闭阀板 Slowly closing valve plate	不锈钢 Stainless steel
弹簧 Spring	硅锰钢 Silicon manganese steel
大阀盘 Big disc	球铁 Ductile iron
阀座 Seat	铜、不锈钢 Copper and stainless steel
膜片座 Diaphragm seat	铸铁、铸钢、球铁 Cast iron, cast steel, ball iron
调节阀 Control valve	铜 Copper
过滤器 Strainer	铜 Copper

主要技术参数 Main technical parameters

公称压力 PN(MPa)	试验压力 Test pressure (Mpa)		适用介质 Applicable medium	工作温度 Working temperature
	壳体 Shell	密封 Seal		
1.0	1.5	1.10	无杂物的 清水、污水 Sundry water and sewage	$\leq 80^\circ\text{C}$
1.6	2.4	1.76		
2.5	4.0	2.75		

主阀(隔膜型)结构图 Main valve (diaphragm) structure diagram



Product introduction

The valve body of this product adopts the global channel streamline design, the fluid resistance is small, the flow rate is big, the sealing effect is good. Due to the main valve equipped with a pipe control system, the use of water operation, can automatically control the water tower or pool level. Simple maintenance, flexible and durable, high accuracy of liquid control, water level is not disturbed by water pressure and closed tightly watertight.

Material Specifications

Pressure PN	1.6MPa	2.5MPa	
	Test pressure	Shell test	2.4MPa
	Seal test	1.76MPa	2.75MPa
Trial temperature			$\leq 80^\circ\text{C}$
Applicable medium			Water

Structure and main parts materials

NO	Name	Material
1	Body	QT450
2	Stern	2Cr13
3	Seal Ring	NBR
4&5	Disc	QT450+NBR
6	Diaphragm plate	45#
7	Diaphragm	Reinforced NBR
8	Spring	Stainless steel
9	Bonnet	QT450
	Needle valve	SS304
	Ball valve	SS304
	Float guide valve	SS304

DN	L	D		D1		n-d		阀门通径到顶部H1	中口法兰到阀门顶部H
		PN16	PN25	PN16	PN25	PN16	PN25		
50	190	165	165	125	125	4-18	4-18	140	75
65	210	185	185	145	145	4-18	8-18	150	80
80	240	200	200	160	160	8-18	8-18	170	105
100	270	215	230	180	190	8-18	8-22	210	115
125	285	245	265	210	220	8-18	8-26	230	140
150	325	280	295	240	250	8-22	8-26	260	160
200	380	335	355	295	310	12-22</td			



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## 100X遥控浮球阀 100X Remote control float valve

### Working principle

When the pipe feeds water from the inlet end of the valve, since the needle valve 20, the ball valve 19 and the float valve 18 are normally open, the water passing through the microfilter 21 and the needle valve 20 enters the bonnet control chamber, and then passes through the ball valve 19 and The float valve 18 flows into the water tank, and no pressure can be formed in the control room, and the pressure water entering the main valve disc lifts the main valve disc, and opens the main valve disc like a large amount of water supply in the water tank. When the water level in the water tank gradually rises, when the float ball is closed and the float valve 18 is closed, the water in the bonnet control chamber gradually increases the pressure until the main valve disc is closed, because the general main valve is installed outside the water tank, and the float ball valve Installed in the water tank, it plays the role of automatic remote control of the water level.

### Installation and maintenance

The main valve is installed on the inlet pipe of the pool or the high water tower. The best installation method is horizontally installed on the pipeline, the valve cover is facing upwards, and the vertical installation can also achieve the operation function.

Thoroughly remove any debris from the pipe before installation and thoroughly flush the pipe. When installing, pay attention to the external flow indication arrow of the valve and follow the direction to install.

A gate valve and a filter should be installed in front of the main valve, and a gate valve should be installed after the main valve to facilitate maintenance.

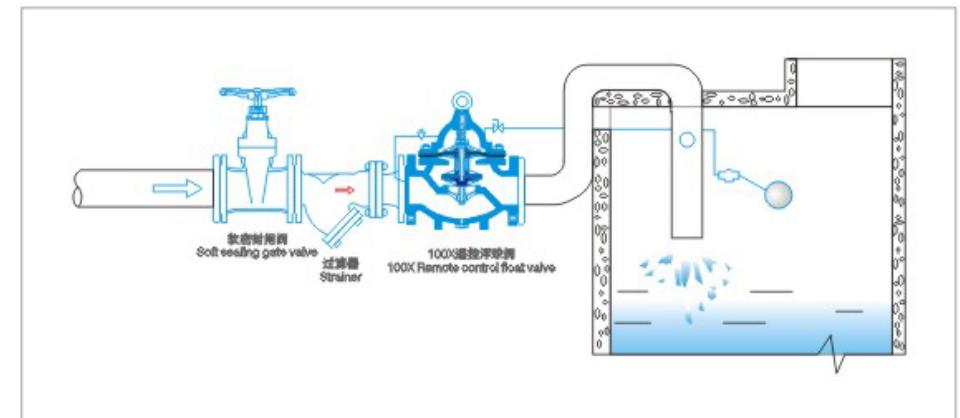
When testing the water, slowly open the gate valve in front of the main valve, slowly increase the pressure, and pay attention to whether the control line outside the main valve leaks.

The microfilter 21 outside the main valve inlet is cleaned once every 2-3 months.



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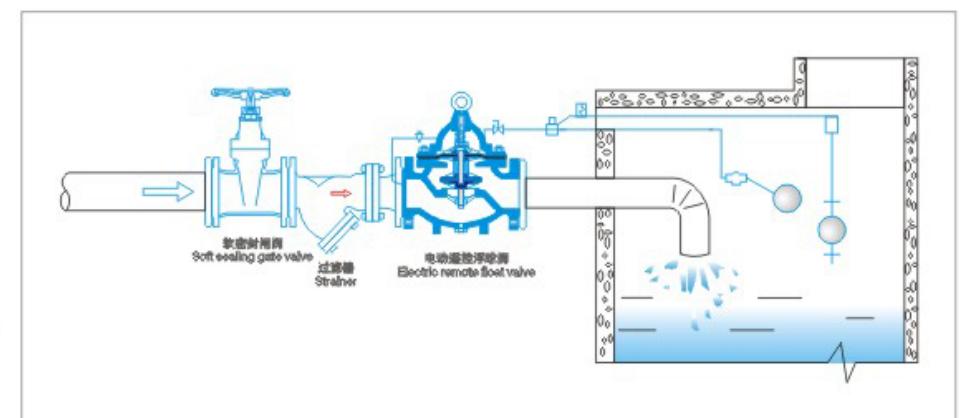
## 100X遥控浮球阀 100X Remote control float valve



控制水塔或水池的液面，保养简单，灵活耐用，液位控制准确度高，水位不受水压干扰且开关紧密不漏水。控制浮球可与主阀体分离式安装。

Control the liquid surface of the water tower or cistern, maintain simple, flexible and durable, the liquid level control accuracy is high, the water level is not disturbed by the water pressure and the switch is tight. The control float can be installed with the main valve body.

## 电动遥控浮球阀 Electric remote float valve



控制水塔或水池的液面，保养简单，灵活耐用，液位控制准确度高，水位不受水压干扰且开关紧密不漏水。控制浮球可与主阀体分离式安装。附加电磁控制可形成第二道保险，以防溢流。

Control the liquid surface of the water tower or cistern, maintain simple, flexible and durable, the liquid level control accuracy is high, the water level is not disturbed by the water pressure and the switch is tight. The control float can be installed with the main valve body. Additional electromagnetic control can form a second insurance to prevent overflow.

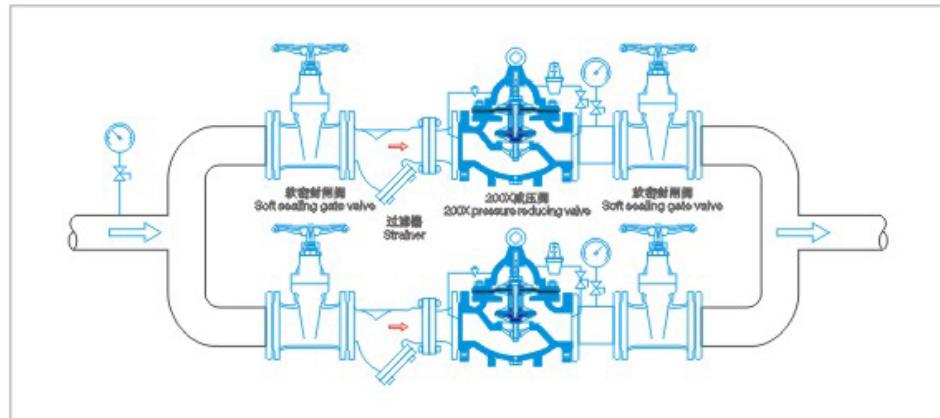
If the main valve is installed in the shading well, there should be enough maintenance space around the main valve. The main valve is large diameter ( $\geq DN100$ ). The inlet hole must be placed at the upper end of the main valve for easy installation and maintenance.



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## 水力控制阀 Hydraulic control valve

200X减压阀  
200X pressure reducing valve



主要控制主阀的固定出口压力，主阀出口压力不因进口压力变化而改变，亦不因主阀出口流量的变化而改变其出口压力，适用于工业给水、消防供水及生活用管网系统。

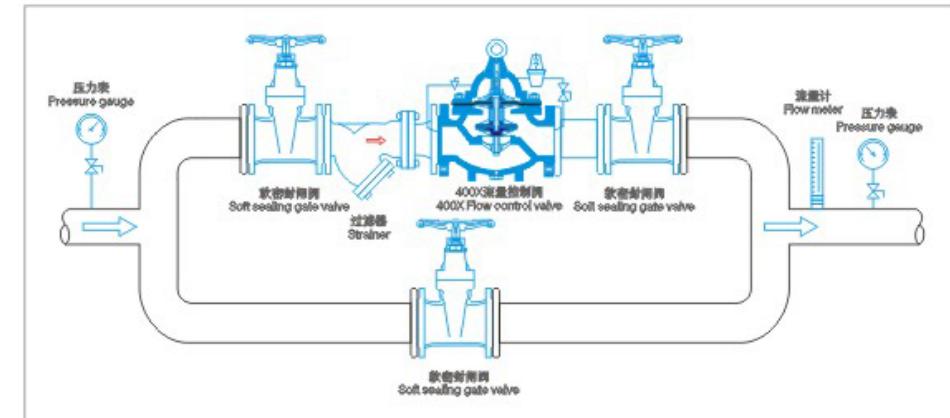
Main control fixed outlet pressure, the main valve inlet pressure, the main valve outlet pressure has no change and change, nor because of the change of the main valve outlet flow to change its outlet pressure, suitable for industrial water supply, fire water supply and water pipe network system.



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## 水力控制阀 Hydraulic control valve

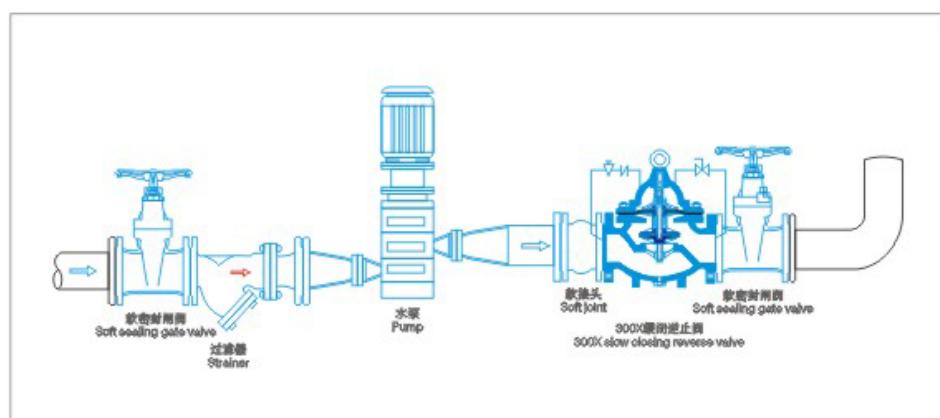
400X流量控制阀  
400X Flow control valve



作用与用途：主阀安装在配水管路需控制流量和压力的管路中，保持预定流量不变，将过大流量限制在一个预定值，将上游高压减为下游低压。即使主阀上游的压力变化，也不会影响主阀下游的流量。

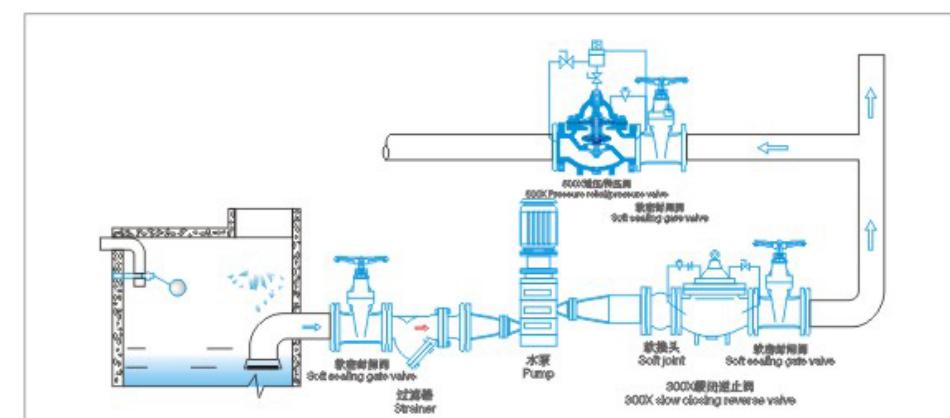
Functions and purposes: the main valve installed in the road pipes to control flow and pressure of the pipeline, the scheduled traffic unchanged, limit excessive flow to a predetermined value, to reduce the high pressure upstream to downstream of low pressure. Even the pressure changes upstream of the main valve will not affect the downstream flow of the main valve.

300X缓闭逆止阀  
300X slow closing reverse valve



具有开启和关闭速度调控的逆止阀，于启动或停止抽水机运转时，可配合现场调节至最佳开启或关闭速度。可用于高层建筑，减少水锤及水声现象产生，以达安静关闭之效果。

The reverse stop valve with opening and closing speed control can be adjusted to the best opening or closing speed when the pumping machine is started or stopped. It can be used in high-rise buildings to reduce water hammer and water acoustic phenomena to achieve quiet closure.



泄压阀：可将给水管中超过引导阀安全设定值之压力释放，并维持管中压力于一安全设定值以下，以防止管中高压或突压(SURGE)毁损管线或设备。可用于高层大楼消防测试循环系统之泄压用，以防止水压过高造成系统危险。持压阀：可维护主阀上游供水压力于某一设定值以上，以保障主阀上游供水区之压力。紧急开启阀：装于消防喷淋泵出水口处，当泵出水口处压力上升至某一设定值以上时此阀立即开启。

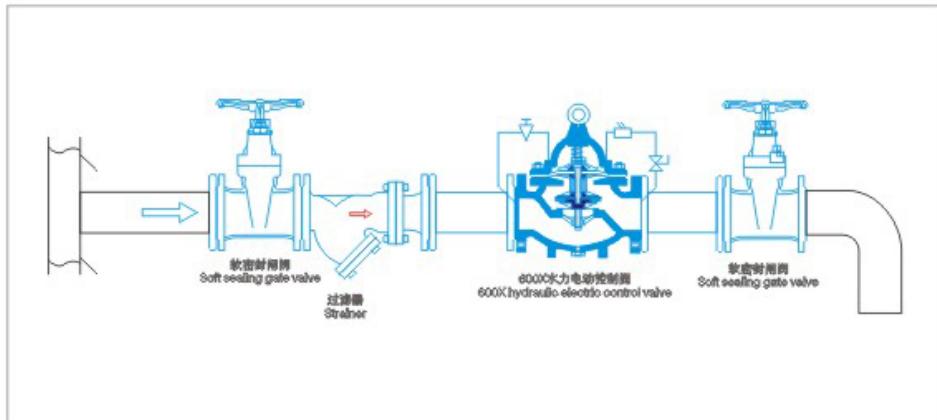
Pressure relief valve: feed pipe can be more than guiding value for the pressure release valve, and maintain in the tube under pressure in a safe setting, in order to prevent the tube of high pressure or pressure or sudden (SURGE) damage to piping or equipment. It can be used in the fire test circulating system of high-rise building to prevent the water pressure from being too high. Holding valve: the upstream water supply pressure of the main valve can be maintained above a set value to ensure the pressure of the upstream water supply area of the main valve. Emergency opening valve: installed in the outlet of the fire spray pump. The valve is opened immediately when the pressure of the pump outlet is increased to above a certain set value.



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## 水力控制阀 Hydraulic control valve

600X水力电动控制阀  
600X hydraulic electric control valve



装置于管路中，可做为遥控开启或关闭之功能，同时可加装速度调控装置。可取代  
用来启闭闸阀或蝶阀用之大型电动操作机，维修简单。

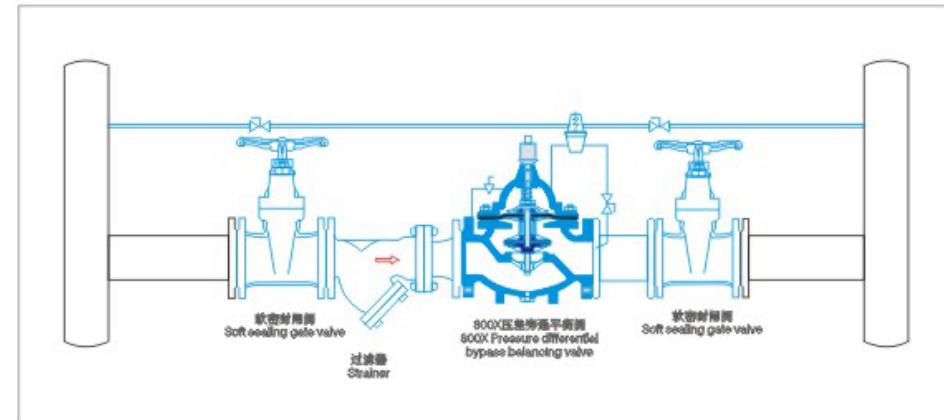
The device can be used as the function of remote opening or closing, and can be  
installed with speed control device. It can replace the large electric operator used  
for opening or closing gate valve or butterfly valve.



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## 水力控制阀 Hydraulic control valve

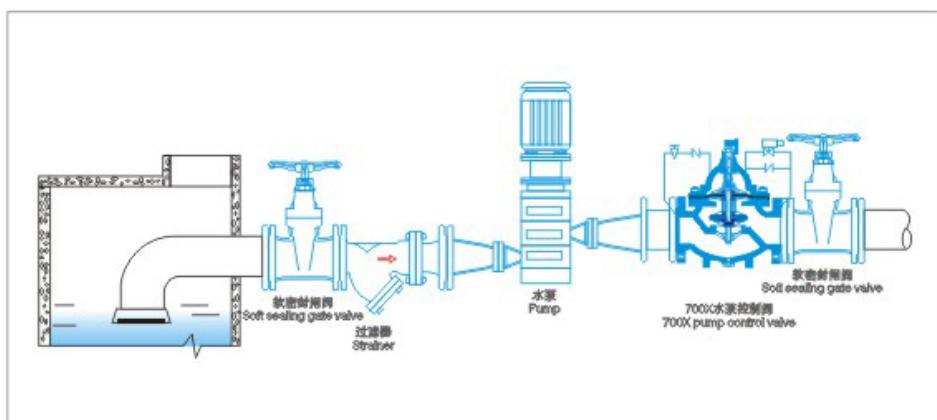
800X压差旁通平衡阀  
800X Pressure differential bypass balancing valve



用于空调系统供/回水之间，保证供/回水之间的差压，提高系统的利用率。保持压  
差的精确恒定值，可降低系统的噪音，以及过大差压对设备的损坏。

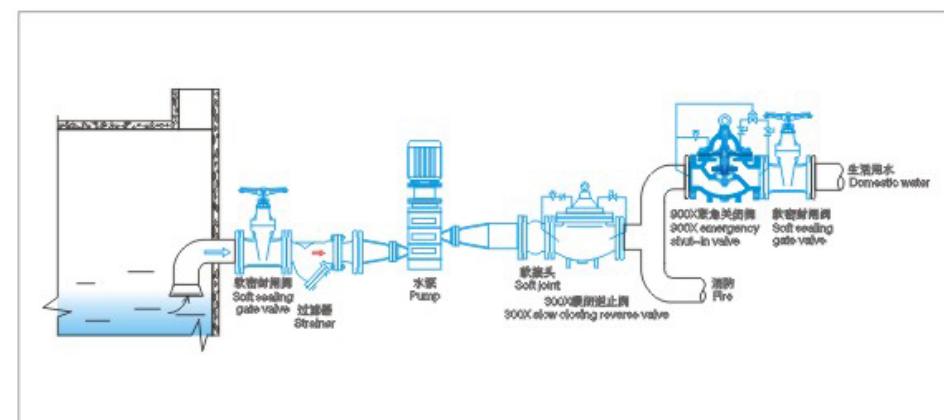
For air conditioning system supply/backwater, to guarantee the difference pressure  
between supply/backwater and improve the utilization ratio of the system. Maintain  
accurate constant pressure, reduce the noise of the system, and the damage to the  
equipment.

700X水泵控制阀  
700X pump control valve



作用与用途：该阀由主阀4、针阀2、电磁导向阀7、单向阀6、球阀3、电器控制  
开关1与压力表5等组成，水泵控制阀能够控制水泵的止回阀。当水泵停止运行前，  
由进口压力先关闭主阀的90%时，使水泵自动停止，剩下的10%由回水关闭，可完  
全防止水锤现象产生。适用于工矿、企业、高层建筑中由水泵直接供水及生活用水  
管网系统。

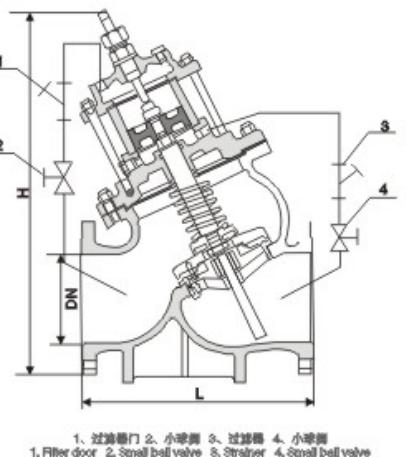
Functions and purposes: the valve consists of main valve, 4. needle valve, 2. Solenoid  
operated valve 7. one-way valve 6. ball valve, 3. Electrical control switch 1 and  
pressure gauge 5, etc., water pump control valve can control water pump check  
valve. When the pump stops running, the water pump automatically stops when the  
Inlet pressure closes 90% of the main valve, and the remaining 10% is turned off by  
backwater to prevent the water hammer from producing. It is suitable for direct water  
supply and living water pipe network system in mining, enterprises and high-rise  
buildings.



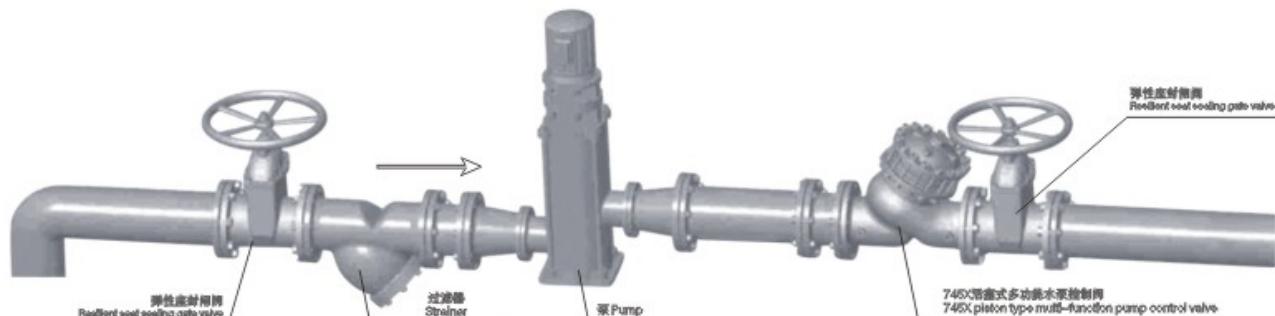
作用与用途：该阀是用于生活小区中消防用水与生活用水并联的供水水系统中。当  
消防用水时，阀门自动紧急关闭，切断生活用水保证消防用水。当消防结束时，阀  
门自动打开，恢复生活供水。比传统的消防单独供水更能节约成本。

Function and purpose: this valve is used in the water supply water system which is  
used in parallel with water and domestic water. When the fire water is used, the valve  
is automatically closed and the water is cut off. When the fire is over, the valve will  
open automatically and restore the water supply. More cost-effective than traditional  
fire services alone.

745X活塞式多功能水泵控制阀  
745X piston type multi-function pump control valve



#### 典型安装示意图 Main technical parameters



活塞式多功能水泵控制阀是安装在大口径给水管网系统的水泵出口处、防止介质倒流、水锤及水击现象的智能型阀门。该阀兼具电动阀、逆止阀和水锤消除器三种功能，可有效地提高供水系统的安全可靠性。双腔室、双瓣结构可使阀门在停泵后迅速关闭90%(防止回流介质导致水泵反转)，再缓慢关闭其余10%(消除破坏性水锤)。活塞式阀门性能可靠、强度高、动作平稳，防止开泵水锤和停泵水锤的场合。只需操作水泵电机启闭按钮，阀门即可按照水泵操作规程自动实现启闭，流量大、压力损失小。

The piston type multi-function pump control system is the intelligent valve installed in the outlet of the pump outlet of the large-caliber water supply pipe network, preventing the backflow of the medium, water hammer and water hammer. The valve has three functions of electric valve, reverse stop valve and water hammer eliminator, which can effectively improve the safety and reliability of water supply system. Double Chambers and double disc structure can make the valve after the pump stopped quickly closed 90% (to prevent the backflow medium pump Inversion), and then slowly closing the remaining 10% (eliminate destructive water hammer) piston valve is reliable in performance, high strength, smooth movement, prevent pumping water hammer and stop the pump water hammer. The valve can automatically realize the opening and closing according to the operating procedures of the pump motor, and the discharge volume and pressure loss are small.

#### 产品概述

H142X液压水位控制阀是一种自动控制水箱、水塔液面高度的水力控制阀。当水面下降超过预设值时，浮球阀打开，活塞上腔室压力降低。活塞上下形成压差，在H142X液压水位控制阀压差作用下H142X液压水位控制阀的阀瓣打开进行供水作业；当水位上升到预设高度时，浮球阀关闭，活塞上腔室压力不断增大致使阀瓣关闭停止供水。如此往复自动控制液面在设定高度，实现自动供水功能。

#### Product overview

H142X hydraulic water level control valve is a hydraulic control valve that automatically controls the height of water tank and water tower. When the water level drops beyond the preset value, the float valve opens and the pressure in the upper chamber of the piston decreases. Pressure difference is formed between the piston and the lower part. Under the pressure difference of H142X hydraulic water level control valve, the disc of H142X hydraulic water level control valve is opened for water supply operation. When the water level rises to the preset height, the float valve closes, and the increased pressure in the upper chamber of the piston causes the disc to close and stop supplying water. So reciprocating automatic control liquid level at the set height, the realization of automatic water supply function.

#### 工作原理

当水池或水塔内水位下降，浮球阀开启排水时，进水管内有压水将阀内活塞托起，密封面打开，阀门即开启供水，当水位上升到控制阀时，浮球阀关闭，活塞下移将密封面封闭，阀门即停止供水。

#### Working principle

When the water level in the pool or water tower drops and the float valve is opened for drainage, the pressure water in the inlet pipe lifts the piston in the valve and the sealing surface opens, the valve opens water supply. When the water level rises to the control valve, the float valve closes, the piston moves down to close the sealing surface, and the valve stops water supply.

#### 技术参数

使用介质：洁净水

使用压力：H142X-4T-A, H142X-4-A: 0.05MPa ~ 0.4MPa

H142X-10-A: 0.05MPa ~ 1MPa

介质温度：≤60°C

#### Technical parameters

Use medium: clean water

Working pressure: H142X-4T-A, H142X-4-A: 0.05MPa ~ 0.4MPa

H142X-10-A: 0.05MPa ~ 1MPa

Medium temperature: ≤60°C

#### 性能特点

- 1、运用液压原理控制，结构新颖合理。
- 2、工作平稳可靠。在规定的使用压力范围内，可保证无水锤冲击。
- 3、重量轻，体积小。
- 4、安装维修方便。

#### Performance characteristics

1. The use of hydraulic control, the structure is novel and reasonable.
2. Stable and reliable work. No water hammer impact can be guaranteed within the specified operating pressure range.
3. Light weight and small volume.
4. Easy installation and maintenance.



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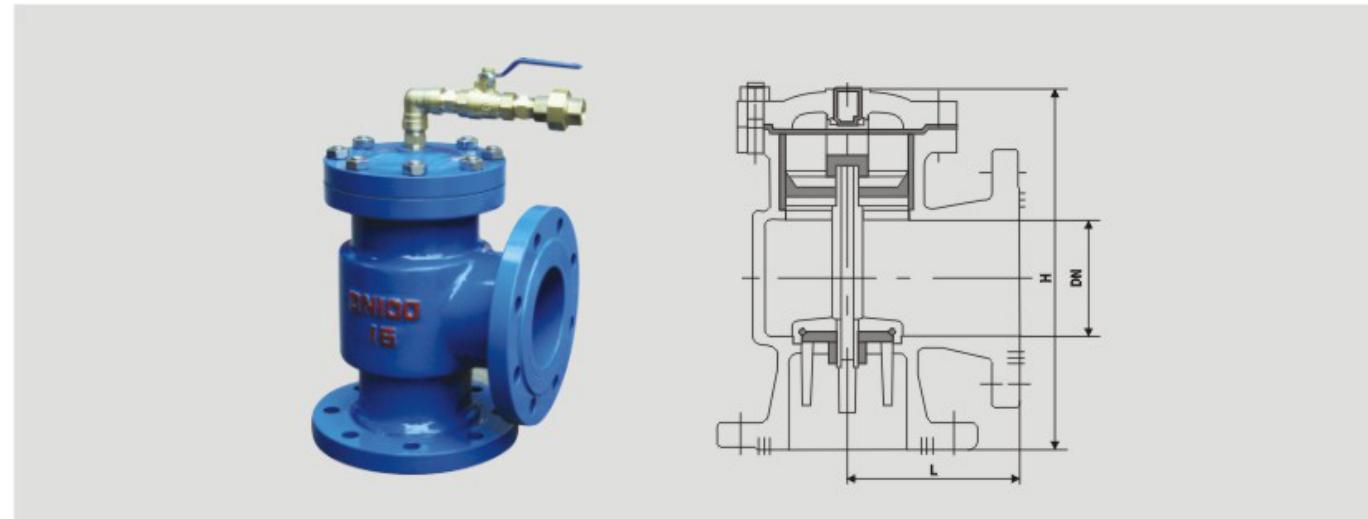
### H142X液压水位控制阀 H142X hydraulic water level control valve

#### 安装形式及注意事项

将该阀垂直固定在进水管上，然后将控制管、截止阀和浮球阀连接旋紧在该阀上即可。该阀进水管和出水管连接法兰H142X-4T-A为0.6MPa标准法兰；H142X-10-A为1MPa标准法兰。进水管直径应大于或等于阀门公称通径，出水口应低于浮球阀。浮球阀安装应距离水管一米以上；在水箱内出水管高于水位线处钻一小孔，以防直空回水。使用时，截止阀应全开，如同一水池安装二只以上阀则应保持同一水平面。因主阀关闭要滞后浮球阀关闭约30~50秒，故水箱要有足够的空余容积，以防溢水。为防止杂质、砂粒进入阀内引起工作失灵，阀前应装过滤器。如安装在地下水池，则应在地下泵房安装报警装置。

#### Installation form and matters needing attention

Fix the valve vertically on the inlet pipe, then screw the control pipe, globe valve and float valve together on the valve. The connection flange of the inlet pipe and outlet pipe of the valve H142X-4T-A 0.6MPa standard flange; H142X-10-A 10MPa standard flange. The inlet pipe diameter shall be greater than or equal to the nominal size of the valve, and the outlet shall be lower than the float valve. Float valve installation should be more than one meter away from the water pipe; Drill a small hole above the water level in the water tank to prevent direct air backwater. When in use, the globe valve should be fully open, as a pool of more than two valves should be kept at the same level. Because main valve closes want to lag float valve closes about 30~50 seconds, reason cistern should have enough free volume, in case overflow water. In order to prevent impurities, sand into the valve caused by failure, the valve should be installed before the filter. If installed in an underground tank, an alarm device should be installed in the underground pump room.



#### 零部件材料

零件名称	阀体	蝶板	密封圈	阀杆	填料
材料	灰铸铁、碳钢	灰铸铁、碳钢、球墨铸铁、不锈钢	氯丁橡胶、丁腈耐油橡胶	不锈钢	聚四氟乙烯

#### Component materials

Part name	Body	Butterfly plat	Sealing ring	Stem	Packing
Material	Gray cast iron, Carbon steel	Gray cast iron, Carbon steel, Ductile iron, Stainless steel	Neoprene rubber, Nitrile oil resistant rubber	Stainless steel	Polytetrafluoroethylene



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### H142X液压水位控制阀 H142X hydraulic water level control valve

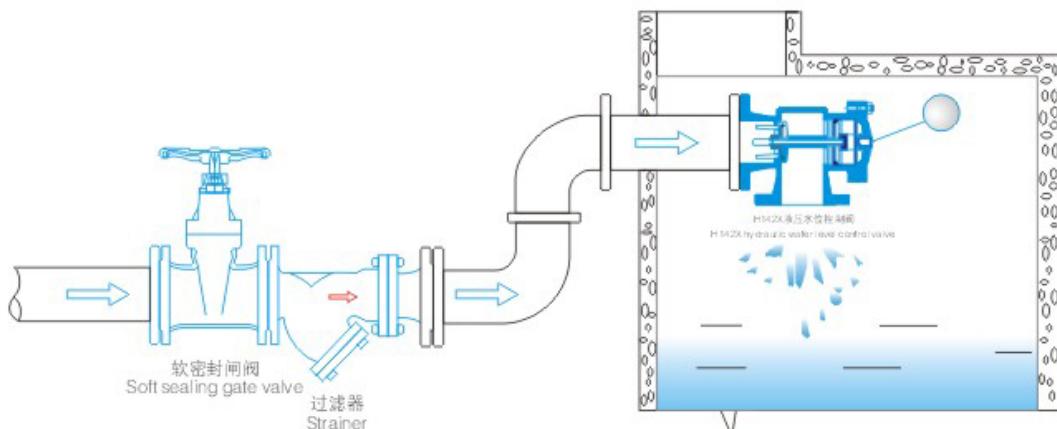
#### 性能参数

型号	公称压力 PN(MPa)	强度试验压(MPa)	密封压力 (MPa)	适用温度 (°C)	适用介质	缓闭时间
H142X	1.0	1.5	1.1	≤80	清水	≤60秒
	1.6	2.4	1.76			
	2.5	3.75	2.75			

#### Performance parameters

Model	Nominal pressure PN(MPa)	Strength test pressure (MPa)	Sealing pressure (MPa)	Suitable temperature (°C)	Applicable medium	Slowly-closing time
H142X	1.0	1.5	1.1	≤80	Clear water	≤60 seconds
	1.6	2.4	1.76			
	2.5	3.75	2.75			

#### 结构示意图 Schematic diagram





选型要点

- 1、工程式中应用的水力控制阀是经过制造厂检验合格，各种标识齐全，技术资料符合要求的产品。
- 2、根据功能要求，选择阀门种类，再根据管道输送介质、温度、建筑标准和业主要求等，确定阀门的阀体和密封部位的材质。常用的阀体材料有铸铁、钢铁、铜、塑料等。常用的密封面和衬里材料有铜合金、塑料、钢、硬质合金、橡胶等。阀体材料应与管道材料相匹配。
- 3、阀门的公称压力有0.6、1.0、1.6、2.5和4.0MPa等不同级别，管道输送的介质，其工作压力应小于阀门的公称压力值。
- 4、工程中水力控制阀的设置应当有足够的空间，以便管理、操作、安装和维修，并应符合管路对阀门的要求。
- 5、管路采用法兰连接时，应采用法兰连接的水力控制阀;管路采用沟槽式连接时，应采用沟槽式连接的水力控制阀。
- 6、水利控制阀应设置在介质单向流动的管路上。
- 7、水利控制阀主阀体上的箭头方向必须与管路系统流向一致。
- 8、接水力控制阀管段不应有气堵、气阻现象。在管网最高位置等存气段应设置自动排气阀。
- 9、阀门水平安装时，阀盖、阀杆应朝上。垂直安装时，阀盖、阀杆应朝外。
- 10、阀门安装前应做强度和严密性试验。
- 11、阀门的强度和严密性试验应符合以下规定：
  - A、阀门的强度试验压力为公称压力的1.5倍;
  - B、阀门的严密性试验压力为公称压力的1.5倍;
  - C、试验压力在试验持续时间内应保持不变，且壳体填料及阀瓣密封面无渗漏;
  - D、阀门试验持续时间按上表。



Selection key points:

1. The hydraulic control valve applied in the engineering type is the product that has been inspected and qualified by the manufacturer, with all kinds of complete marks and technical data meeting the requirements.
2. Select the type of valve according to the functional requirements, and then determine the material of the valve body and sealing parts according to the pipeline transportation medium, temperature, building standards and owner requirements. Common valve body materials are cast iron, copper iron, copper, plastic and so on. Commonly used sealing surface and lining materials are copper alloy, plastic, steel, carbide, rubber and so on. The valve body material shall match the pipe material.
3. The nominal pressure of the valve is 0.6, 1.0, 1.6, 2.5 and 4.0MPa. The working pressure of the medium transported by the pipeline should be less than the nominal pressure value of the valve.
4. The setting of hydraulic control valves in the project shall have sufficient space for management, operation, installation and maintenance, and shall meet the requirements of pipelines for valves.
5. When pipelines are connected with flanges, hydraulic control valves connected with flanges shall be used; When the pipeline is connected by groove, the hydraulic control valve connected by groove shall be adopted.
6. Water control valve should be set in the one-way flow of medium pipeline.
7. The arrow direction on the main valve body of the water control valve shall be consistent with the flow direction of the pipeline system.
8. There should be no gas blockage or gas resistance in the pipe segment connected to the hydraulic control valve. Automatic exhaust valve shall be set at the highest position of the pipe network and other gas storage section.
9. When the valve is installed horizontally, the cover and stem should face up. When installing vertically, cover and stem should face outward.
10. Strength and tightness test should be done before valve installation.
11. The strength and tightness test of the valve shall meet the following requirements:
  - A. The strength test pressure of the valve is 1.5 times of the nominal pressure;
  - B. The tightness test pressure of the valve is 1.5 times of the nominal pressure;
  - C. The test pressure should remain unchanged during the test duration, and there is no leakage on the sealing surface of shell packing and valve disc;
  - D. The duration of valve test is shown in the table above.

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