

产品简介 Product Introduction

水力控制阀就是用水压控制的阀门，一般分为隔膜型和活塞型两大类，两者工作原理相同。它由一个主阀及其附设的导管、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、流量控制阀、泄压阀、水力电动控制阀等。水力控制阀都是以上下游压力差 ΔP 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、或完全关闭及处于调节状态，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，其调节位置取决于导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并随它的变化而开大或关小其自身的小阀口，从而改变隔膜（活塞）上方控制室的压力值，控制主阀阀盘的调节位置。

Waterpower controlling valve uses water pressure to control valve. It is divided as two sorts diaphragm model and piston model, with same working principle. It is composed of main valve and enclosed pipe guide, guiding valve, needle valve, ball valve and pressure meter etc. It can evolve into remote control float valve, pressure reducing valve, slow-closure check valve, capacity controlling valve, pressure relief valve, waterpower electric controlling valve etc. according to different usages, functions and occasions. Waterpower controlling valves take upstream and downstream pressure differentia ΔP as motivity, controlled by guide valve, diaphragm (piston) operate in hydraulic differential, automatically adjusted by water-power, thereby make the disc of main valve wholly open or completely close and situate in adjustable status. When pressure water flows on diaphragm (piston) of main controlling house is drained to air or downstream low area, pressure value on underside of disc bottom and diaphragm is bigger than upper pressure value, there by pushes the disc of main valve to fully open position. When pressure water flow into diaphragm of upper controlling house can't drain to air or downstream low pressure area, pressure value on upper diaphragm (piston) is bigger than downside pressure value, there by presses disc of main valve to fully close position. When pressure on upper diaphragm (piston) of controlling house is between inlet pressure and outlet pressure, disc of main valve will be in adjustable status. the adjustable position is decided by combined controlling function of needle valve and adjustable guide valve in guide pipe system. Adjustable valve through outlet pressure on down stream along with the variety to open self port bigger small, so as to change pressure value on diaphragm (piston) upper controlling house, control adjustable position of main valve disc.

主要零部件材质 Main parts material

隔膜型 Diaphragm type	零件名称 Name of parts	阀体 Body 阀盖 Bonnet	阀盘 Ring 阀座 Seat	弹簧 Spring 阀杆 Stem	膜片 Membrane	螺栓 Bolt 螺母 Nut	O型圈 O-Ring
	材质 Material	铸铁 Cast Iron 球铁 Ductile Iron 铜 Brass 碳钢 Carbon steel 不锈钢 Stainless steel	铜 Bronze 不锈钢 Stainless steel	不锈钢 Stainless steel	尼龙强化橡胶 Nylon Reinforced Rubber	不锈钢 Stainless steel	丁晴橡胶 NBR

活塞式 Piston type	零件名称 Name of parts	阀体 Body 阀盖 Bonnet	阀盘 Ring 阀座 Seat	气缸 Air cylinder	弹簧 Spring 阀杆 Stem	皮碗 Leather cup	螺栓 Bolt 螺母 Nut	O型圈 O-Ring
	材质 Material	铸铁 Cast Iron 球铁 Ductile Iron 铜 Brass 碳钢 Carbon steel 不锈钢 Stainless steel	铜 Bronze 不锈钢 Stainless steel	铜 Bronze 不锈钢 Stainless steel	不锈钢 Stainless steel	皮革 Leather	不锈钢 Stainless steel	丁晴橡胶 NBR

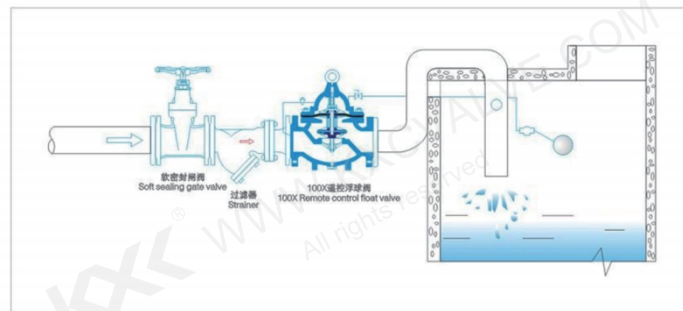
主要技术参数 Main technical parameters

公称压力 Nominal pressure	试验压力 Test pressure		公称通径 Nominal diameter	工作温度 Temperature	适用介质 Medium
PN(Mpa)	壳体 Shell	密封 Seal	DN(mm)		
1.0	1.5	1.1	25-800	$\leq 80^{\circ}\text{C}$	无杂物的清水、污水 Sundry Water and Sewage
1.6	2.4	1.76			
2.5	4	4.75			

100X遥控浮球阀

100X Remote control float valve

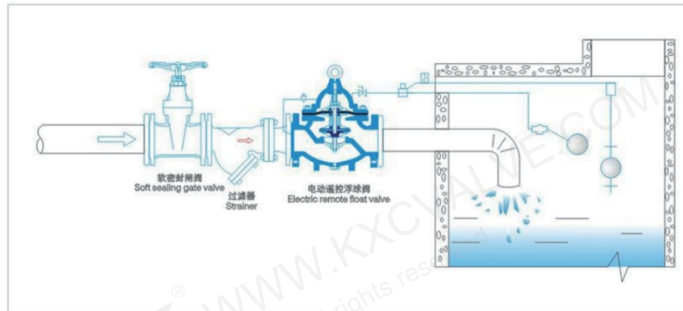
Control the liquid surface of the water tower or cistern, maintain simple, flexible and durable, the liquid level control accuracy is high, the water level is not disturbed by the water pressure and the switch is tight. The control float can be installed with the main valve body.



电动遥控浮球阀

Electric remote float valve

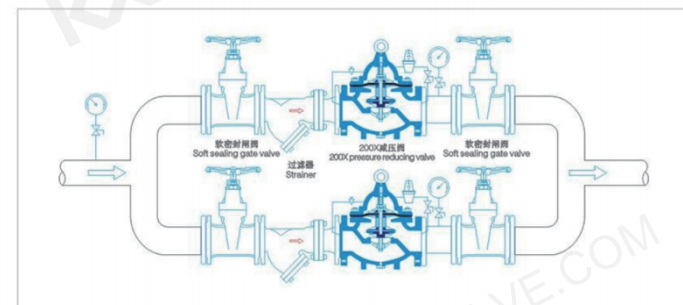
Control the liquid surface of the water tower or cistern, maintain simple, flexible and durable, the liquid level control accuracy is high, the water level is not disturbed by the water pressure and the switch is tight. The control float can be installed with the main valve body. Additional electromagnetic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



200X减压阀

200X pressure reducing valve

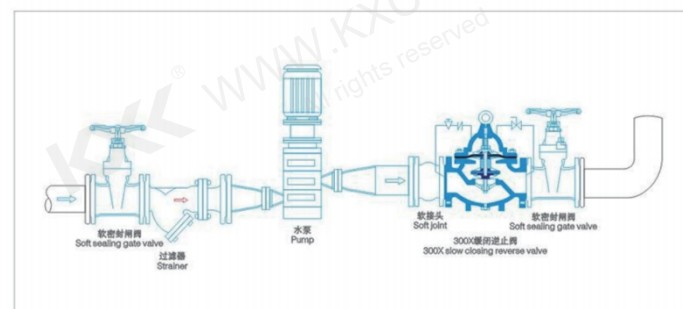
Main control fixed outlet pressure, the main valve inlet pressure, the main valve outlet pressure has no change and change, nor because of the change of the main valve outlet flow to change its outlet pressure, suitable for industrial water supply, fire water supply and water pipe network system.



300X缓闭逆止阀

300X slow closing reverse valve

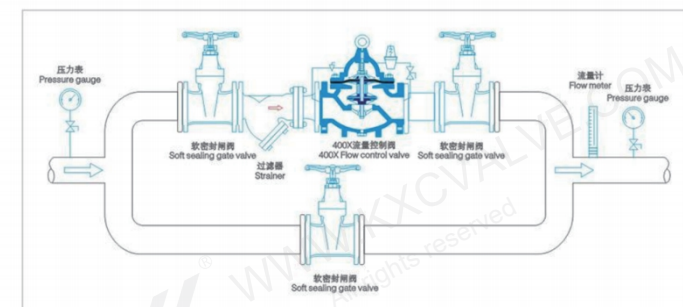
The reverse stop valve with opening and closing speed control can be adjusted to the best opening or closing speed when the pumping machine is started or stopped. It can be used in high-rise buildings to reduce water hammer and water acoustic phenomena to achieve quiet closure.



400X流量控制阀

400X Flow control valve

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 flow pressure. Even the pressure changes upstream of the main valve will not affect the downstream flow of the main valve.

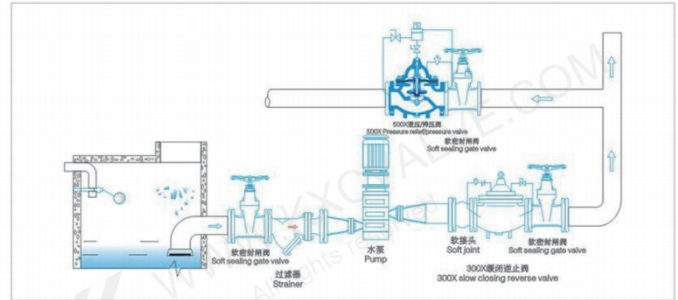




500X泄压/持压阀

500X Pressure relief/pressure valve

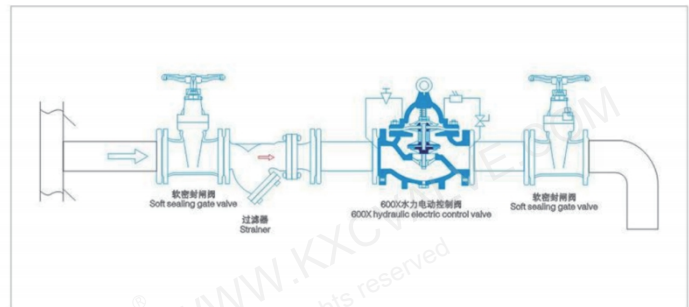
Pressure relief valve: feed pipe can be more than guiding value for the pressure release valve, and maintain in the tube under pressure in a safe setting, in order to prevent the tube of high pressure or pressure or sudden (SURGE) damage to piping or equipment. It can be used in the fire test circulating 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.



600X水力电动控制法

600x hydraulic electric control valve

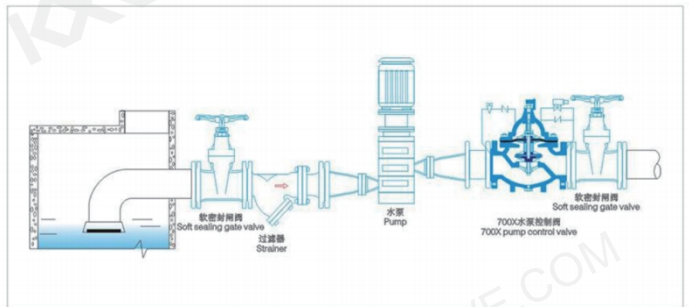
The device can be used as the function of remote opening or closing, and can be installed with speed control device. It can replace the large electric operator used for opening or closing gate valve or butterfly valve.



700X水泵控制阀

700X pump control valve

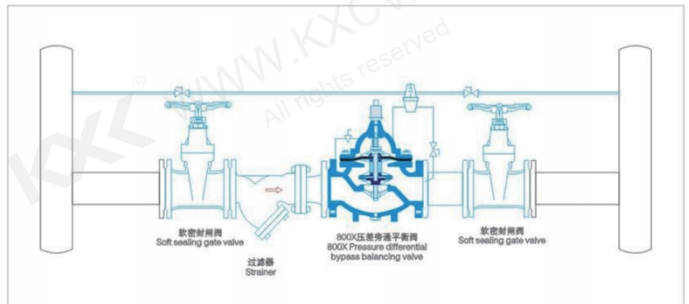
Functions and purposes: the valve consists of main valve, 4. needle valve, 2. Solenoid operated valve, 7. one-way valve, 6. ball valve, 3. Electrical control switch, 1. and pressure gauge, 5, etc., water pump control valve can control water pump check valve. When the pump stops running, the water pump 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.



800X压差旁通平衡阀

800X Pressure differential bypass balancing valve

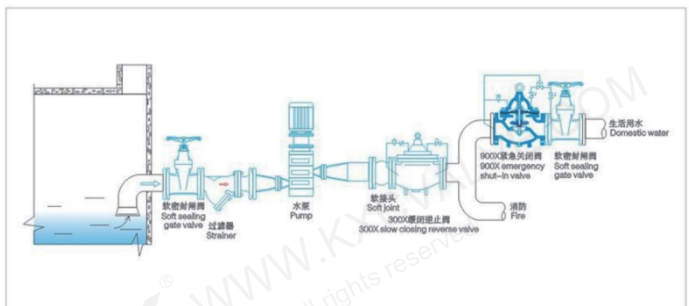
For air conditioning system supply/backwater, to guarantee the difference pressure between supply/backwater and improve the utilization ratio of the system. Maintain accurate constant pressure, reduce the noise of the system, and the damage to the equipment.



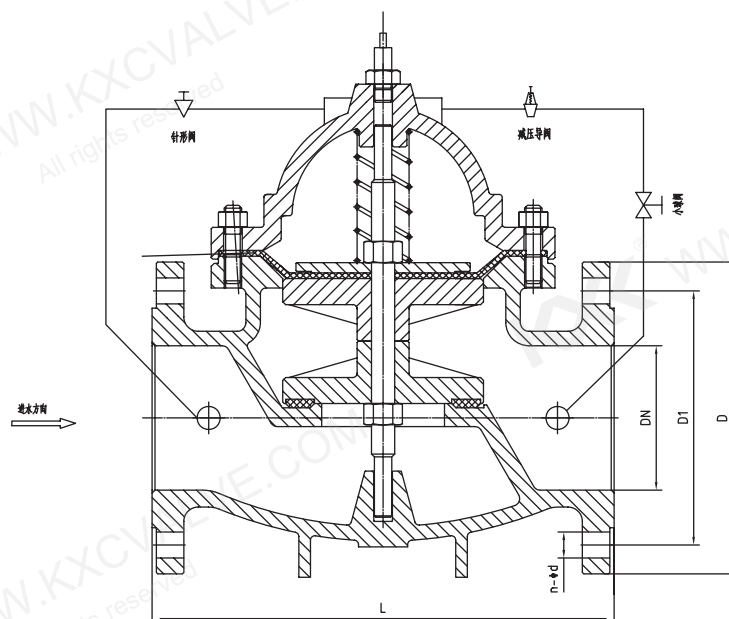
900X紧急关闭阀

900x emergency shut-in valve

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.



主要外形及连接尺寸 Main external and connection dimension



DN	INCH	L	D		D1		n-d	
mm			PN10	PN16	PN10	PN16	PN10	PN16
50	2	235	165	165	125	125	4-19	4-19
65	2.5	235	185	185	145	145	4-19	4-19
80	3	250	200	200	160	160	8-19	8-19
100	4	290	220	220	180	180	8-19	8-19
125	5	325	250	250	210	210	8-19	8-19
150	6	360	285	285	240	240	8-23	8-23
200	8	420	340	340	295	295	8-23	12-23
250	10	450	395	405	350	355	12-23	12-28
300	12	510	445	460	400	410	12-23	12-28
350	14	670	505	520	460	470	16-23	16-28
400	16	730	565	580	515	525	16-28	16-31
450	18	730	615	640	565	585	20-28	20-31
500	20	800	670	715	620	650	20-28	20-34
600	24	970	780	840	725	770	20-31	20-37
700	28	1110	895	910	840	840	24-31	24-37
800	32	1200	1015	1025	950	950	24-34	24-41