

Pump Control Valve (W-700X-25C)

◆ Application:

The Watts W-700X Pump Control Valve is designed to protect the pump from water hammer shock. It's generally used in building services, water treatment, etc.

◆ Features:

1. Opening and closing without friction;
2. Modularization structure;
3. Reliable sealing performance;
4. Easy to operate;
5. Wide application scope.



◆ Operating Principles:

When the working valve of pump supplies water to the water downstream, solenoid pilot valve fully opens, the needle valve is adjusted to the appropriate opening degree, the upstream water enters the main valve control room through needle valve and check valve, and flows out through the solenoid pilot valve, at this time, the pressure of main valve control room maintains the appropriate opening degree, and the normal water downstream. When the pump stop working, solenoid pilot valve shuts off, the main valve control room stops the drainage, the pressure of control room increases, the main valve begins to close, when close to 90%, the position limit switch on the top of main valve outputs the pump stopping signal, water pump stops running. At this point the downstream backwater enters into the main valve control room through check valve, the pressure of control room increases, and the main valve is closed.

◆ Technical Specification:

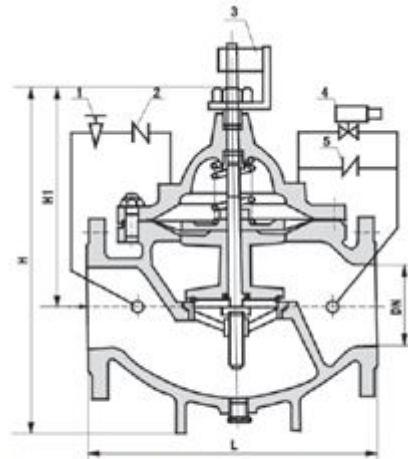
Nominal Diameter:	DN50~DN450
Nominal Pressure:	PN25
Working Temperature:	0℃~80℃
Fluid Medium:	Water
Minimum Different Pressure:	0.1MPa
Control Voltage:	Direct Current 24V; Alternating Current 220V
Design Standard:	JB/T 10674-2006
Test Standard:	GB/T 13927-2008

◆ Material:

Part	Body	Bonnet	Pilot Valve	Connecting Pipe
Material	Carbon Steel Coated with Epoxy	Carbon Steel Coated with Epoxy	Copper	Copper / Stainless Steel

◆ Installation Dimensions:

Connection Dimension: GB/T 9113;



1.Needle Valve 2.Check Valve 3.Limit Switch
4.Solenoid Valve 5.Check Valve

DN	50	65	80	100	125	150	200	250	300	350	400	450
L	203	216	241	292	330	356	495	622	698	787	914	978
H1	160	180	200	270	310	320	370	430	480	525	580	635
H	395	405	430	510	560	585	675	730	760	840	910	910

*Please contact the local salesmen if the size \geq DN450 are needed.

◆ Typical Application:

1. Water plant and water source project;
2. Environmental protection;
3. Municipal facilities;
4. Electric power and utilities;
5. Construction industry.

◆ Installation Instructions:

- (1) The valve's rated parameters should match the equipment's. Make sure that the valve's rated flow satisfies the actual demand;
- (2) The installer must be trained or experienced so as to operate the installation correctly;
- (3) A thorough check after installation is needed to ensure no errors;
- (4) A thorough cleaning before installation is needed (chemical reagent can be applied if it is necessary) to ensure that there is not any rusting or dirt in the pipe. All the filters must be removed before washing to keep the pipe smoothly open;
- (5) When beginning to wash the system, it is suggested to install the valve on a temporary pipe. After finishing system cleaning, move the valve back and install it on the system's pipe;
- (6) This product should not be used when the fluid medium has high viscosity (contains much grease or mineral oil), or under corrosive circumstances;
- (7) Use flange and the corresponding bolts that meet the standard to connect the valve;
- (8) The direction of flow must accord with the direction of the arrow head on the valve body;
- (9) For the size below DN200, the main valve can be installed horizontally or vertically, but horizontal installation is better. The size above DN200 only can be installed horizontally.