

Non-Surge Check Valve (W-300X-25C)

◆ Application:

The Watts W-300X Non-Surge Check Valve is designed to adjust the valve opening and closing speed, preventing the water backflow in the pipe. 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 valve supplies water from the inlet, the water flows into the main valve control room through the micro strainer, needle valve and check valve, and then drains water to the downstream through the ball valve. Because the opening degree of the needle valve is less than the ball valve, it means the water drainage speed of the main valve control room is faster than the water inflow speed, so the pressure in the control room reduces, the inlet pressure on the bottom of the main valve opens the main valve to supply water to the downstream. When pipe stops supplying water, if the downstream water flowing back, part of the return water enters the main control room, because of the check valve, the reflux water cannot flow from the main control room, which causes the pressure of the main control room rises gradually, and the main valve closes slowly.

◆ Technical Specification:

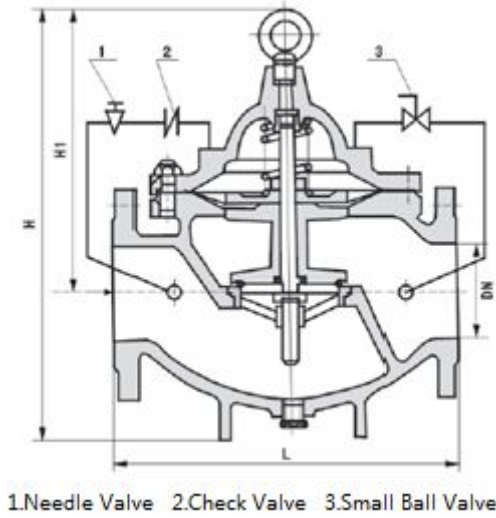
Nominal Diameter:	DN50~DN600
Nominal Pressure:	PN25
Working Temperature:	0°C~80°C
Fluid Medium:	Water
Minimum Different Pressure:	0.1MPa
Design Standard:	JB/T 10674-2006
Test Standard:	GB/T 13927-2008

◆ Material:

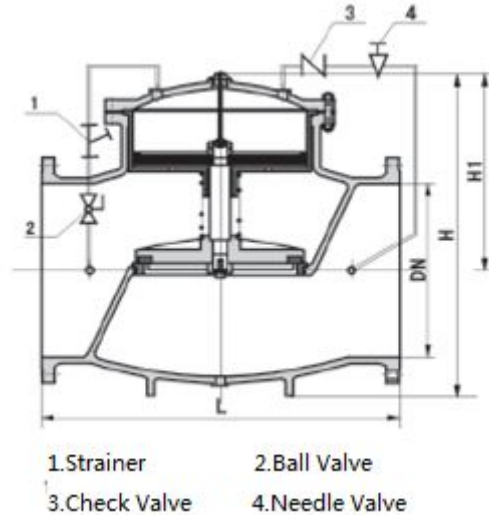
Part	Body	Bonnet	Pilot Valve	Connecting Pipe
Material	Carbon Steel Coated with Epoxy	Carbon Steel Coated with Epoxy	Copper	Copper / Stainless Steel

◆ Installation Dimensions:

Connection Dimension: GB/T 9113;



DN50-450



DN500-600

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	978	1075	1230
H1	137	145	178	232	286	318	413	502	600	638	677	677	620	695
H	225	270	289	375	420	570	722	769	906	1025	1027	1027	750	850

◆ 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.