The following is a detailed introduction to the 100X Remote Control Float Valve:

Product Introduction

Structural Composition: The 100X remote control float valve consists of a main valve, a needle valve, a ball valve, a float valve, a micro filter, etc., forming a hydraulic control connection pipe system.

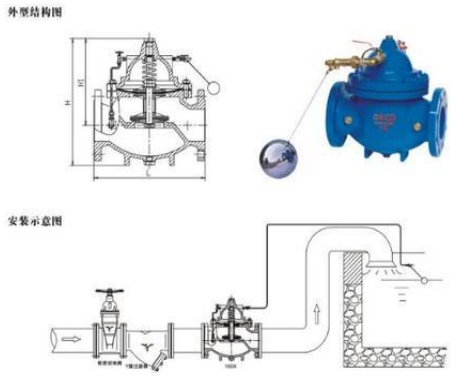
Working Principle: When water is supplied from the inlet end of the pipeline, since the needle valve, ball valve, and float valve are normally open, water enters the water tank through the micro filter, needle valve, control chamber, ball valve, and float valve. At this time, no pressure is formed in the control chamber, the main valve opens, and the water tower (tank) supplies water. When the water level in the water tower (tank) rises to the set height, the float rises and closes the float valve. The water pressure in the control chamber increases, pushing the main valve to close, and the water supply stops. When the water level drops, the float valve opens

again, the water pressure in the control chamber decreases, and the main valve opens again to continue supplying water, maintaining the set water level.

Application Scenarios: It is widely used for the liquid level control of facilities such as water towers and water tanks in the water supply pipeline systems of high-rise buildings, living areas, etc. It is also suitable for the automatic water supply systems of various water tanks (boxes) and water towers in industrial and mining enterprises and civil buildings, and is also used in the circulating water supply systems of normal pressure boilers.

Typical Installation Schematic Diagram

Installation Schematic Diagram of the 100X Remote Control Float Valve Product



Maintenance and Troubleshooting

Maintenance

Regular Inspection: Regularly inspect all components of the valve, including the valve stem, valve disc, sealing ring, float, etc., to check for any signs of wear, corrosion, deformation, or damage.

Component Cleaning: Regularly clean the debris and dirt inside the main valve body, micro filter, and pilot valve to prevent blockage from affecting the normal operation of the valve.

Lubrication Treatment: Apply appropriate lubrication to the moving parts such as the valve stem. Lubricating grease or lubricating oil can be used to reduce friction and ensure the flexible movement of the valve.

Sealing Performance Inspection: Check the sealing performance of the valve. If there is any leakage, replace the sealing ring or repair the sealing surface in a timely manner.

Troubleshooting

Fault Phenomenon	Possible Causes	Solutions
Water tank overflow	Damaged rubber gasket of the pilot valve Leakage at the weld of the float The connecting rod piston is stuck by foreign objects	Replace the gasket Replace the float Remove the foreign objects
Low water level	Foreign objects inside the pilot valve body The connecting rod piston is stuck by foreign objects	Remove the foreign objects Remove the foreign objects
Abnormal sound	Foreign objects inside the main valve body	Remove the impurities
Unreasonable closing speed	Improper opening degree of the needle valve	Adjust the opening degree of the needle valve

Performance Characteristics

Precise Liquid Level Control: It directly uses the liquid level for control, without the need for other devices and energy sources. It is not affected by water pressure and can accurately control the water level within the set range, preventing overflow and low water levels.

Novel and Reasonable Structure: It reasonably applies the hydraulic principle and control theory. It is composed of a main valve and an externally installed pilot valve, etc., and controls the opening and closing of the main valve through the float 联动 pilot valve.

Stable and Reliable Operation: The diaphragm-type valve has reliable performance, high strength, flexible movement, and large flow. It is suitable for pipelines with a diameter of less than 450mm. For pipelines with a diameter of DN500mm or above, a piston type is recommended.

Fast Opening and Slow Closing of the Valve Disc: It has the characteristics of fast opening and slow closing, without generating

water hammer impact. The closing time is adjustable, which can effectively protect the pipeline system from the damage of the water hammer effect.

Good Check and Sealing Effect: It can close tightly to prevent the backflow of water, with reliable sealing and a long service life.

Convenient Installation and Maintenance: It can be installed at any position according to the height of the water tank and the available space. Maintenance, debugging, and inspection are relatively convenient.