

DN50 pulse solenoid valve

instruction manual

JX-TWV-PL

Ver1.0

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Chapter 1 Product Introduction

1.1 Product overview

Pulse solenoid valve is a pulse signal control fluid flow automation basic components, used in industrial control systems to adjust the direction of the medium, traffic . The pilot pulse solenoid valve changes the upper and lower pressure difference of the diaphragm by controlling the amount of water entering the upper and lower pressure of the diaphragm, and the diaphragm is deformed under the action of the pressure difference to realize the opening and closing of the valve. The flow rate of the liquid is controlled by controlling the height of the manual limit handle.

Pulse solenoid valve is widely used in agricultural fields, water-saving irrigation, landscaping, breeding and seedling, water supply and drainage, gardening, urban water supply and other occasions.

1.2 Main parameters

Parameters	Technical indicators
Working voltage	DC 12-40V
Waterproof rating	IP68
Control mode	Manual/pulse voltage
Valve body material	Reinforced Nylon (PA66)
Working	0-60 °C

temperature	
Diaphragm material	EPDM rubber (EPDM)
Liquid medium	$\leq 50\text{cSt}$
Pressure range	0-0.7MPA
principle	Pilot Type

第 2 章 Hardware connection

2.1 Equipment installation inspection

Check the equipment list before installing the equipment:

Name	Quantity
Pulse solenoid valve	1
Warranty Card/Certificate	1 serving

2.2 Product structure



Name	Description
Manual limit handle	Regulating valve opening and closing height to control valve flow rate
Knob switch	The switch of the valve can be manually controlled, or it can be switched to pulse control
Electromagnetic head	Pulse electromagnetic head, receiving pulse signal, control valve opening and closing
Manual control valve	For the pulse solenoid valve is invalid, manual control is done by the knob switch.
Ton	Shot manual control valve
Water outlet interface	Connect the electromagnetic head water outlet channel
Water inlet interface	Connect the electromagnetic head water inlet channel
Control interface	Connect the electromagnetic head control channel to switch the valve opening and closing state

Note: Manual control valve: This component pulse solenoid valve is invalid, please do not try to operate the control to avoid affecting the air tightness of the valve body.

The knob switch is as follows:



OPEN-manual on, CLOSE-manual off, AUTO-pulse control status

2.3 Product size



2.4 Installation and usage items

1. The installation direction is marked on the valve. As

shown in the figure, if the installation is wrong, the actual control effect of the electromagnetic head knob switch will be opposite to the logo.



2. The valve needs to add a filter or debris filter device before entering the water to prevent the impact of debris in the liquid on the diaphragm impact damage or debris blocking the water inlet hole, endangering the safety of the valve.

3. The best installation position is the coil vertical upward, that is, the solenoid valve is best installed horizontally.

4. In the case of insufficient pipe rigidity or high water pressure and obvious water hammer phenomenon, please fix the valve front and rear to prevent the safety hazard caused by the vibration of the valve.

5. Normally closed solenoid valve will discharge part of the liquid when just on the liquid, but in a short time will automatically close, this is a normal phenomenon.

6. Before the valve is removed from the pipeline connection, the medium pressure must be released and the

power supply must be cut off.

7. Manual shut-off valves should be added before and after the solenoid valve, and a bypass should be provided to facilitate the maintenance of the solenoid valve in the event of failure, as shown in the figure below.

