

UPVC/CPVC Plastic Solenoid Valve

Normally closed diaphragm pilot valve for liquid and gas service



Product Overview

The HOMIPNEU UPVC/CPVC plastic solenoid valve is a normally closed, diaphragm pilot-operated valve for controlling liquid and gas flow. Its non-metallic valve body is available in UPVC or CPVC, while Viton sealing supports reliable shutoff in compatible process media. The series covers threaded port sizes from 1/2 inch to 2 inches for water treatment, process piping and general fluid-control systems.

Key Features

- UPVC or CPVC plastic body for compatible liquid and gas applications.
- Diaphragm pilot-operated, normally closed valve configuration.
- Viton sealing material for dependable shutoff performance.
- Port sizes from 1/2 inch to 2 inches.
- Available with 24 VDC or 220-240 VAC, 50/60 Hz coils.

Applications

- Water treatment and filtration equipment.
- Chemical-compatible process piping subject to material verification.
- Irrigation, dosing and general liquid-control systems.
- Industrial equipment requiring electrically controlled flow shutoff.

Technical Specifications

Parameter	Specification
Product Type	UPVC/CPVC plastic solenoid valve
Working Medium	Liquid and gas
Medium Temperature	0-60 deg C
Operating Pressure	0.3-6 kgf/cm ²
Operating Principle	Diaphragm pilot operated
Valve Function	Normally closed
Body Material	UPVC or CPVC plastic
Sealing Material	Viton
Port Size Range	1/2 in to 2 in
Coil Voltage	24 VDC; 220-240 VAC, 50/60 Hz

Working Principle

In the de-energized state, the diaphragm remains closed and stops flow through the valve. When the coil is energized, the pilot passage changes the pressure balance across the diaphragm, allowing the main orifice to open. Because the design is pilot operated, the valve must be installed in the correct flow direction and within the stated operating-pressure range.

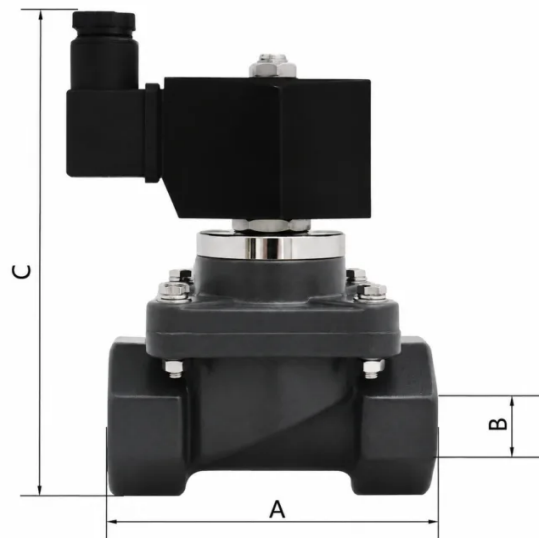
Installation and Operating Guidance

- Confirm that the selected UPVC/CPVC body and Viton seal are compatible with the process medium.
- Install the valve according to the flow-direction marking and keep the pilot passages free from debris.
- Use appropriate thread sealing practice without allowing sealing material to enter the flow path.
- Verify voltage and frequency before energizing the coil.
- Pressurize the system gradually and inspect all joints for leakage.

Selection Notes

Select the model by port size, body material, medium compatibility, operating pressure, temperature and coil voltage. For corrosive or chemically active media, verify compatibility of the valve body, diaphragm and Viton seal before ordering or installation.

Dimension Drawing



Model Selection and Dimensions

Model	Port Size	Diameter O.D.	A	B	C
DHF-21-15	1/2 in	20	74	63	138
DHF-21-20	3/4 in	25	78	63	138
DHF-21-25	1 in	32	98	73	148
DHF-21-32	1 1/4 in	40	120	94	171
DHF-21-40	1 1/2 in	50	130	94	180
DHF-21-50	2 in	58	172	155	225

All dimensions are in millimetres. A, B and C correspond to the original product drawing.

Maintenance and Safety Notes

- Isolate electrical power and release line pressure before servicing the valve.
- Keep the medium clean enough to prevent blockage of the pilot passage and diaphragm area.
- Do not exceed the specified pressure or temperature limits.
- Replace the valve or sealing components if leakage, cracking or chemical damage is observed.

Contact Information

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