

## PU220 Series 2/2 Way Brass Solenoid Valve

Normally closed brass solenoid valve for electric on/off control of air, water and oil.



### Product Overview

The HOMIPNEU PU220 Series is a 2-port, 2-position normally closed brass solenoid valve for electrically controlled pipeline shut-off. It is available in port sizes from G1/8 to G1 and is suitable for air, water, oil and compatible neutral fluids when pressure, temperature, viscosity and seal compatibility are confirmed.

### Key Features

- 2/2 way normally closed design: closed without power and open when energized.
- Brass valve body for common industrial fluid-control applications.
- Port sizes from G1/8 to G1 with multiple flow capacities.
- Optional NBR, VITON or EPDM sealing materials.
- Common coil choices include DC12V, DC24V, AC24V, AC110V and AC220V.

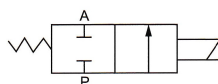
### Applications

- Compressed-air lines, water supply systems and compatible light-oil circuits.
- Filling, cleaning, irrigation and water-treatment equipment.
- Laboratory devices, HVAC auxiliary systems and general industrial automation.

## Technical Specifications

| Parameter                   | Specification                            |
|-----------------------------|------------------------------------------|
| Working Medium              | Air, water and oil                       |
| Motion Pattern              | Direct drive type                        |
| Valve Function              | 2/2 way, normally closed                 |
| Operation Fluid Viscosity   | 50 cSt                                   |
| Working Pressure            | 0.5-7 kgf/cm <sup>2</sup>                |
| Maximum Pressure Resistance | 10.5 kgf/cm <sup>2</sup>                 |
| Operating Temperature Range | -5 to 80 deg C                           |
| Body Material               | Brass                                    |
| Seal Options                | NBR / VITON / EPDM                       |
| Voltage Options             | DC12V, DC24V, AC24V, AC110V, AC220V      |
| Electrical Connection       | DIN connector or lead-wire configuration |

## Electrical Information and Circuit Symbol



2/2-way normally closed solenoid valve with spring return.

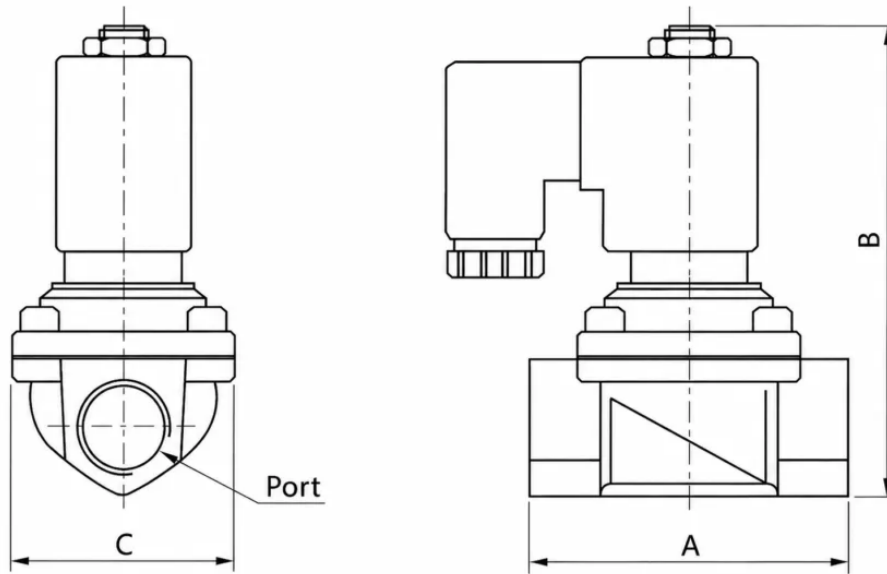
## Valve Function

In the de-energized state, the spring keeps the valve closed and blocks flow between ports P and A. When the rated coil voltage is applied, the solenoid actuates the valve mechanism and opens the flow path. Removing power returns the valve to the normally closed state.

## Electrical Selection Notes

- Match the coil voltage and AC frequency to the control power supply.
- Use suitable circuit protection and isolate power before wiring or maintenance.
- Confirm coil duty, connector type and environmental protection before continuous service.

## Dimension Drawing



## Model Selection and Dimensions

| Model      | Port | Orifice | Cv    | A    | B    | C  |
|------------|------|---------|-------|------|------|----|
| PU220-01AR | G1/8 | 1.5     | 0.10  | 30   | 62   | 22 |
| PU220-02AR | G1/4 | 2.3     | 0.18  | 30   | 62   | 22 |
| PU220-03AR | G3/8 | 8.0     | 1.00  | 55   | 78.5 | 30 |
| PU220-03A  | G3/8 | 13      | 4.00  | 67.5 | 101  | 48 |
| PU220-04A  | G1/2 | 13      | 4.00  | 67.5 | 101  | 48 |
| PU220-06A  | G3/4 | 20      | 8.60  | 75   | 107  | 58 |
| PU220-08A  | G1   | 25      | 11.00 | 96   | 121  | 70 |

Dimensions A, B and C and orifice values are in millimetres.

## Additional Product Views



## Operating Principle

The valve converts an electrical control signal into automatic pipeline opening and closing. The normally closed structure helps stop the medium when electrical power is removed. Install the valve in the marked flow direction and verify actual operating conditions before commissioning.

## Installation and Operating Guidance

- Check the flow-direction arrow on the brass body before installation.
- Use clean piping and prevent thread sealant, metal chips or debris from entering the valve.
- Support connected pipes so the valve body is not subjected to mechanical load.
- Keep the coil and connector protected from moisture beyond the verified enclosure rating.
- Apply pressure gradually and test opening, closing, leakage and coil temperature.

## Maintenance and Safety Notes

- Isolate electrical power and fluid pressure before servicing the valve.
- Inspect the connector, coil, seals, plunger, diaphragm and valve seat for damage or contamination.
- Do not exceed the verified pressure, temperature, voltage or medium limits.
- Confirm material compatibility for hot fluids, chemicals, fuel gas, oxygen or safety-critical service.

## Ordering Information

Specify the exact PU220 model, port size, thread standard, working medium, pressure range, operating temperature, fluid viscosity, seal material, coil voltage and frequency, electrical connection, quantity and packaging requirements. OEM and ODM support is available.

## Selection Reminder

Final selection must match the actual medium, pressure, temperature, viscosity, seal material, voltage, frequency and installation environment. Confirm current production specifications before ordering or designing a fixed mounting envelope.

### Contact Information

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