# PU220 Series 2/2 Way Brass Solenoid Valve

Normally closed electric on/off valve for air, water, oil and compatible neu

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 designed for air, water, oil and compatible neutral fluids.

The valve body is brass, with optional NBR, VITON or EPDM seals. Common coil choices include DC12V, DC24V, AC24V, AC110V and AC220V. Electrical connection can be supplied with a DIN connector or lead-wire configuration.

**Typical uses:** compressed-air lines, water systems, oil circuits, filling machines, cleaning equipment, irrigation, laboratory devices and general industrial automation.

### 2/2 WAY NC

Closed without power; opens when the coil is energized.

### BRASS BODY

Practical strength and corrosion resistance for general fluid service.

### PORT RANGE

G1/8, G1/4, G3/8, G1/2, G3/4 and G1.

### VOLTAGE OPTIONS

DC12V, DC24V, AC24V, AC110V and AC220V.

Application suitability depends on medium compatibility, pressure, temperature, viscosity, seal material, coil voltage, thread standard and installation conditions. Confirm all details before ordering.

## Technical Specifications

| Item | Specification |
|---|---|
| Series | PU220 Series |
| Valve type | Brass fluid-control solenoid valve |
| Function | 2/2 way; 2 ports, 2 positions |
| Normal state | Normally closed |
| Working medium | Air, water, oil and compatible neutral fluids |
| Operation | Solenoid operated; direct acting or assisted-lift construction depending on size |
| Body material | Brass |
| Seal options | NBR / VITON / EPDM |
| Port sizes | G1/8, G1/4, G3/8, G1/2, G3/4, G1 |
| Orifice range | 1.5, 2.3, 8.0, 13.0, 20.0 and 25.0 mm |
| Cv range | 0.10 to 11.00 |
| Working pressure | 0 to 0.7 MPa |
| Maximum pressure resistance | 1.05 MPa |
| Working temperature | -10 to 90 °C |
| Voltage options | DC12V, DC24V, AC24V, AC110V, AC220V |
| Electrical entry | DIN connector or lead wire |
| Flow direction | Follow the arrow marked on the valve body |

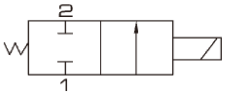
## Model Selection Data

| Model | Port | Orifice | Cv |
|---|---|---|---|
| PU220-01 | G1/8 | 1.5 mm | 0.10 |
| PU220-02 | G1/4 | 2.3 mm | 0.18 |
| PU220-03 | G3/8 | 8.0 mm | 1.00 |
| PU220-04 | G1/2 | 13.0 mm | 4.00 |
| PU220-06 | G3/4 | 20.0 mm | 8.60 |
| PU220-08 | G1 | 25.0 mm | 11.00 |

**Selection note:** The model suffix indicates nominal port size. Confirm the exact thread standard (for example G/BSP or another requested thread), valve construction, seal material and voltage before production use.

## Valve Circuit Symbol

Symbol

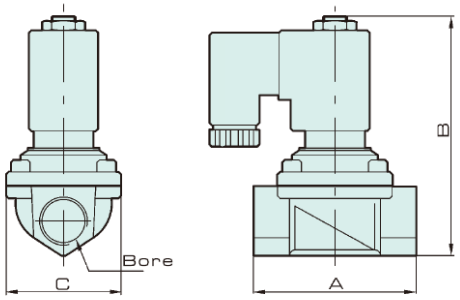



**2/2 Way Normally Closed Solenoid Valve**

The symbol shows a two-port, two-position normally closed valve with spring return. In the de-energized state, the flow path is closed. Energizing the solenoid shifts the valve to connect the inlet and outlet.

## Overall Dimensions

Overall Dimension




Dimension

| Model | Bore | A | B | C |
|---|---|---|---|---|
| PU220-01 | PT1/8 | 22 | 72 | 22 |
| PU220-02 | PT1/4 | 35 | 75.5 | 25.4 |
| PU220-03 | PT3/8 | 55 | 79.5 | 30 |
| PU220-04 | PT1/2 | 66.5 | 101 | 48 |
| PU220-06 | PT3/4 | 71 | 107 | 48 |
| PU220-08 | PT1 | 96 | 120 | 70 |

Dimension reference for the PU220 family. A, B and C are overall envelope dimensions in millimetres. The reference drawing lists PU220-01 through PU220-08. Because dimensions can vary by coil, connector, thread and production revision, request the current HOMIPNEU drawing before designing a fixed mounting envelope.

## Installation, Ordering and Safety Notes

### Installation

1. Check the flow arrow on the brass body.
2. Install with clean piping and prevent sealant or debris entering the valve.
3. Support connected pipes so the valve body is not mechanically loaded.
4. Keep the coil and connector protected from moisture beyond the verified enclosure rating.
5. Do not energize an incorrect voltage coil.

### Commissioning

Slowly apply pressure, then test opening, closing, leakage, coil temperature and fail-safe behaviour under actual operating conditions. Verify that the valve closes when electrical power is removed.

### Maintenance

Isolate electrical and fluid energy before service. Inspect the coil, connector, seals, plunger, diaphragm and valve seat. Replace parts only with verified compatible components.

### Ordering information

Provide model, port size, thread standard, working medium, pressure range, operating temperature, fluid viscosity, seal material, coil voltage/frequency, electrical entry, quantity and packaging requirements.

### Seal selection

NBR is commonly used for general air, water and light-oil service. VITON may offer improved heat or chemical resistance. EPDM is often selected for compatible water or steam duties. Final compatibility must be confirmed for the actual medium and temperature.

### Safety notice

This datasheet is a product-selection aid and does not replace a machine risk assessment or approved installation manual. Do not exceed verified pressure, temperature, voltage or media limits. Obtain written application approval for hazardous fluids, oxygen, fuel gas, vacuum, hot fluids or safety-critical service.

Source note: Core specifications and model data are based on the HOMIPNEU PU220 product page. The circuit symbol and overall-dimension illustration were cross-checked against public PU220-series manufacturer datasheets. External drawings are included as same-series references only; exact HOMIPNEU dimensions and electrical details should be confirmed before ordering.

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