

PU225 Series 2/2 Way Solenoid Valve

Pilot-operated normally closed valve for on-off control of air, water, oil and compatible neutral fluids.



PU225-04A

Product Overview

The HOMIPNEU PU225 Series is a 2-port, 2-position pilot-operated solenoid valve for automatic pipeline opening and closing. It is available with brass or steel body options and port sizes from 3/8 inch to 2 inches. The series is intended for air, water, oil and compatible neutral fluids when pressure, temperature, viscosity and material compatibility are confirmed.

Key Features

- 2/2 way normally closed control: closed without power and open when energized.
- Pilot-operated guide structure for larger pipeline flow capacity.
- Port range from 3/8 inch to 2 inches for multiple installation requirements.
- Brass or steel body options for general industrial fluid-control systems.
- Suitable for air, water, oil and compatible neutral fluids within rated limits.

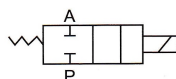
Applications

- Water supply, cleaning, cooling, irrigation and general water-control equipment.
- Compressed-air circuits, pneumatic equipment and automated machine control panels.
- Compatible oil and neutral-fluid circuits in industrial process equipment.

Technical Specifications

Parameter	Specification
Working Medium	Air, water and oil
Motion Pattern	Pilot-operated guide type
Valve Function	2/2 way, normally closed
Body Material	Brass / steel
Operation Fluid Viscosity	50 cSt
Working Pressure	0.5-7 kgf/cm ²
Maximum Pressure Resistance	10.5 kgf/cm ²
Operating Temperature Range	-5 to 80 deg C

Electrical Information and Circuit Symbol



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

Valve Function

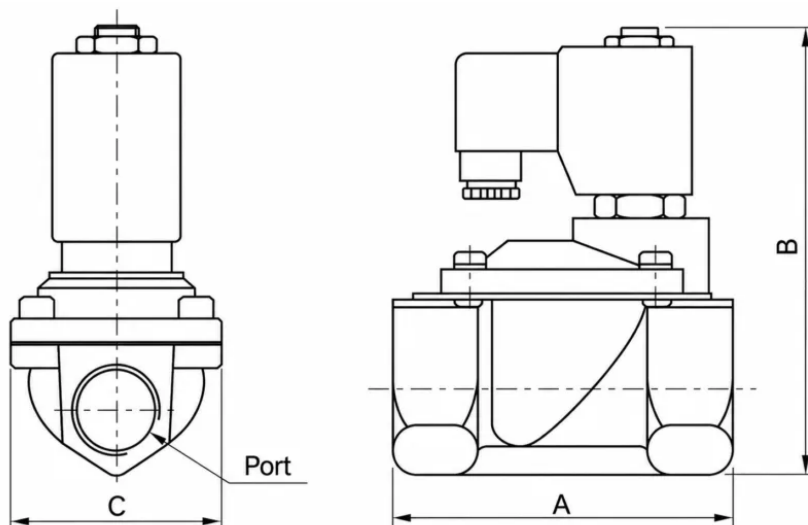
In the de-energized state, the spring keeps the valve closed and blocks flow between ports P and A. When the rated coil voltage is applied, the solenoid pilots the valve open. Removing power returns the valve to the normally closed state.

Flow Capacity by Model

Model	Port	Orifice	Cv
PU225-03A/NO	3/8 in	13	4.50
PU225-04A/NO	1/2 in	13	4.50
PU225-06A/NO	3/4 in	25	12.00
PU225-08A/NO	1 in	25	12.00
PU225-12A/NO	1 1/4 in	38	22.00
PU225-14A/NO	1 1/2 in	38	30.00
PU225-20A/NO	2 in	50	48.00

Orifice values are in millimetres. Confirm the required function suffix before ordering.

Dimension Drawing



Model Selection and Dimensions

Model	Bore	A	B	C
PU225-03A	3/8 in	67.5	106	48
SPU225-03A	3/8 in	67.5	106	48
PU225-04A	1/2 in	67.5	106	48
SPU225-04A	1/2 in	67.5	106	48
PU225-06A	3/4 in	75	112	58
SPU225-06A	3/4 in	75	112	58
PU225-08A	1 in	96	124.5	70
SPU225-08A	1 in	96	124.5	70
PU225-12A	1 1/4 in	130	139	97
SPU225-12A	1 1/4 in	130	139	97
PU225-14A	1 1/2 in	130	139	97
SPU225-14A	1 1/2 in	130	139	97
PU225-20A	2 in	161	160.5	112

Dimensions A, B and C are in millimetres. Bore denotes the nominal pipe connection size.

Selection Notes

- Select the port size and flow capacity according to the pipeline and required Cv value.
- Confirm body material, thread standard, coil voltage, medium and seal compatibility.
- Pilot-operated valves require suitable operating pressure and pressure differential.

Additional Product Views



PU225-06A



SPU225-08A

Installation and Operating Guidance

- Install the valve in the marked flow direction and support connected piping independently.
- Flush the pipeline before installation to prevent debris from entering the valve seat or pilot passages.
- Match the coil voltage and AC frequency to the control power supply before energizing.
- Apply pressure gradually and check switching, leakage, noise and coil temperature.

Maintenance and Safety Notes

- Isolate electrical power and fluid pressure before inspection or service.
- Do not exceed the stated pressure, temperature or viscosity limits.
- Confirm material compatibility for chemicals, fuel gas, oxygen, steam or safety-critical service.

Ordering Information

Specify the exact PU225 or SPU225 model, port size, thread standard, body material, working medium, pressure range, operating temperature, fluid viscosity, coil voltage and frequency, electrical connection, quantity and packaging requirements. OEM and ODM support is available.

Contact Information

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