

6213 Series 2/2 Way Diaphragm Solenoid Valve

Servo-assisted normally closed valve for water, air and compatible neutral fluids



Product Overview

The HOMIPNEU 6213 Series is a 2-port, 2-position diaphragm solenoid valve for automatic on-off control of water, air and compatible neutral fluids. Its servo-assisted normally closed structure provides a compact solution for water systems, process equipment, compressed-air circuits and OEM machinery. Multiple port sizes and AC/DC coil voltage options support a wide range of installation requirements.

Key Features

- 2/2-way normally closed control for automatic pipeline shut-off.
- Servo-assisted diaphragm structure supports higher flow capacity.
- Suitable for water, air and compatible neutral fluids.
- Port sizes available from G1/4 to G1 for different pipelines.
- Common AC and DC coil voltage options support industrial control systems.
- Brass valve body provides durable service in general fluid applications.

Technical Specifications

Parameter	Specification
Valve Type	2/2-way servo-assisted diaphragm solenoid valve
Control Function	Normally closed; opens when the coil is energized
Compatible Media	Water, air and compatible neutral fluids
Port Size Range	G1/4, G3/8, G1/2, G3/4 and G1
Nominal Diameter Range	4, 10, 14 and 25 mm, depending on model
Working Pressure	0-6 or 0.3-10 kgf/cm ² , depending on model
Ambient Temperature	-20 to +55 deg C or -10 to +55 deg C
Fluid Temperature	0 to +90 deg C or -10 to +90 deg C
Kv Values	1.1, 2, 3.6, 8.3 and 11 m ³ /h, depending on model
AC Power Consumption	14 VA
DC Power Consumption	8 W
Voltage Options	AC 24 V, 36 V, 110 V, 220 V; DC 12 V, 24 V
Switching Frequency	At least 1 Hz or 0.5 Hz, depending on model

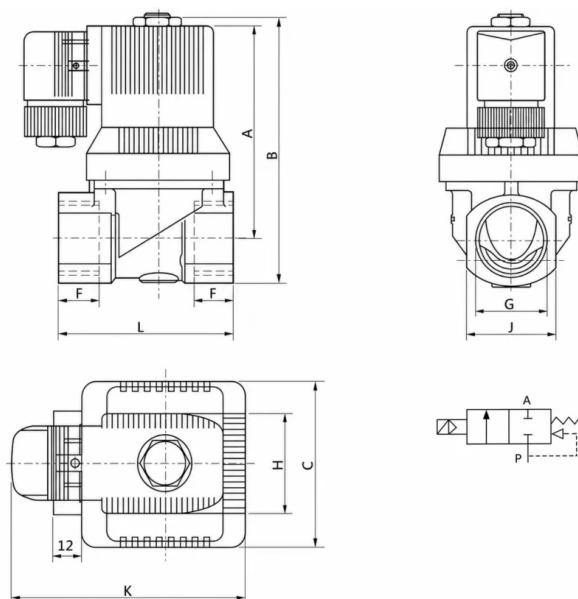
Applications

- Water supply, washing, cooling and cleaning systems.
- Industrial fluid-control equipment and process panels.
- Compatible compressed-air circuits and machine tools.
- Water treatment, filling, packaging and OEM machinery.
- Distributor stock, maintenance and replacement projects.

Operating Principle

When the coil is de-energized, the spring and diaphragm keep the main flow path closed. When electrical power is applied, the pilot passage changes the pressure balance across the diaphragm, allowing the main valve to open. Because the design is servo-assisted, the available pressure differential and installation conditions must be confirmed before operation.

Dimension Drawing and Valve Symbol



Model Selection and Dimensions

Model	G	C	F	L	J	A	B	H	K
6213-02	G1/4	38	14	50	26	71	85	35	71
6213-03	G3/8	38	14	50	26	71	85	35	71
6213-04 A	G1/2	38	14	50	26	71	85	35	71
6213-04 B	G1/2	45	16	58	31	82	96	35	80
6213-06 A	G3/4	45	16	58	31	82	96	35	90
6213-06 B	G3/4	65	18	82	41	96	117	35	90
6213-08	G1	65	18	82	41	96	117	35	90

All dimensional values are in millimetres. A/B suffixes distinguish the two body-size entries listed for the same model.

Selection Notes

- Confirm the working medium, pressure differential and fluid temperature.
- Select the correct port size, valve body size and Kv value for the required flow.
- Confirm the coil voltage and frequency before ordering or installation.
- Install the valve in the permitted flow direction shown by the body arrow.

Installation and Operating Guidance

- Flush the pipeline before installation to remove particles and sealing debris.
- Confirm that the body arrow matches the intended fluid-flow direction.
- Use appropriate thread sealing material without allowing it to enter the flow passage.
- Support connected piping so external loads are not transferred to the valve body.
- Apply the rated voltage only and verify the coil specification before energizing.
- Pressurize the system gradually and inspect all threaded joints for leakage.

Maintenance and Safety Notes

- Isolate electrical power and fully depressurize the pipeline before service.
- Keep the medium clean and use suitable filtration where contamination is possible.
- Do not exceed the specified pressure, ambient-temperature or fluid-temperature limits.
- Replace damaged coils, connectors, seals or valve bodies before returning the system to service.
- Confirm fluid compatibility with the valve body, diaphragm and internal sealing materials.

Ordering Information

Specify the 6213 model, body-size version where applicable, port thread, required voltage, working medium, pressure range, temperature range and quantity. HOMIPNEU supports OEM and ODM supply, private-label packaging, export cartons and model confirmation for distributors and equipment manufacturers.

Contact Information

Wenzhou Hongmi Pneumatic Co., Ltd.

Address: Room 501, Xingnan Village, Hongqiao Town, Yueqing City, Zhejiang, China

Email: vivilian@homipneu.com

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>