

2L(US) 2/2 Way High-Temperature Steam Solenoid Valve

Pilot-operated normally closed brass valve for steam, hot water, air, water, light oil, and compatible neutral fluids.



Product Overview

The 2L(US) Series is a 2/2 way normally closed solenoid valve designed for automatic on-off control of steam, hot water, air, water, light oil, and compatible neutral fluids. Its pilot-operated piston structure, brass valve body, and PTFE sealing arrangement support industrial heating, sterilization, laundry, cleaning, and process applications.

Key Features

- 2/2 way normally closed control for automatic pipeline switching.
- Pilot-operated piston structure for larger threaded ports and higher flow capacity.
- Brass valve body with PTFE seal for selected high-temperature applications.
- Common threaded port sizes from G3/8 to G2.
- Multiple DC and AC coil voltage options for industrial control systems.

Quick Item	Description
Product Type	High-temperature steam solenoid valve
Valve State	Normally closed
Control Method	Electrical on-off control with required pressure differential

Technical Specifications

Parameter	Specification
Product Series	2L / US Series
Valve Function	2 ports, 2 positions
Default State	Normally closed
Operation Type	Pilot-operated piston
Flow Direction	Unidirectional; install according to the flow arrow
Valve Body	Brass
Seal Material	PTFE
Working Medium	Steam, hot water, air, water, light oil, and compatible neutral fluids
Port Range	G3/8 to G2
Typical Orifice Range	Approximately 17-50 mm, depending on model
Typical Working Pressure	0.1-1.5 MPa; confirm the exact model specification
Pressure Differential	A minimum inlet-to-outlet pressure differential is required
Typical Medium Temperature	-5 C to 180 C
Medium Viscosity	Typically no more than 20 cSt
Voltage Options	DC12V, DC24V, AC24V, AC110V, AC220V, and other options
Voltage Tolerance	Typically +/-10%
Electrical Connection	DIN connector or lead-wire option, depending on coil

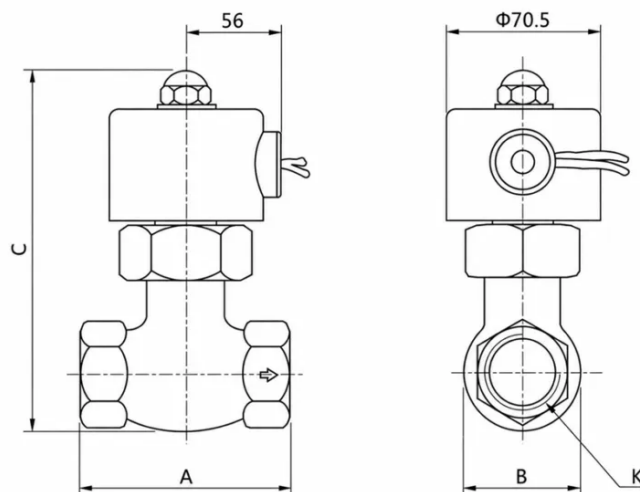
Operating Principle

When the coil is de-energized, the valve remains closed. When the correct voltage is applied and the required inlet-to-outlet pressure differential is available, the pilot passage actuates the piston and opens the main flow path. Because this is a pilot-operated valve, it is not intended for zero-pressure or zero-differential service.

Installation and Safety Notes

- Install the valve according to the flow arrow on the valve body.
- Confirm medium, pressure, temperature, thread standard, voltage, and frequency before wiring.
- Keep the pipeline clean and prevent scale or debris from entering the valve.
- Use a suitable upstream filter and allow adequate heat dissipation around the coil.

Dimensions



Model Selection and Dimensions

Model	Port Size	A (mm)	B (mm)	C (mm)	K (PT)
2L170-10	G3/8	-	-	-	-
2L170-15	G1/2	82	40	144	1/2 in
2L170-20	G3/4	84	42	145	3/4 in
2L200-25	G1	93	49	153	1 in
2L300-35	G1-1/4	109	63	163	1-1/4 in
2L300-40	G1-1/2	113	63	170	1-1/2 in
2L500-50	G2	119	77	190	2 in

Note: 2L170-10 (G3/8) is listed in the available model range, but A, B, C, and K dimensions are not stated on the current product page. Confirm the supplied drawing before ordering.

Selection Checks

- Confirm model, port size, and thread standard.
- Confirm working medium and compatibility with brass and PTFE.
- Confirm inlet pressure, outlet pressure, and minimum pressure differential.
- Confirm medium temperature, ambient temperature, coil voltage, and connector type.

Applications

- Industrial steam pipelines for heating, drying, cleaning, and process equipment.
- Sterilizers, bottle-washing equipment, and hot-water cleaning machinery.
- Commercial laundry, ironing, pressing, and steam drying equipment.
- Heat exchangers, temperature-control systems, and boiler auxiliary circuits.
- Steam or hot-water auxiliary circuits in food and packaging machinery after compatibility confirmation.

Why Choose HOMIPNEU

- Support for model, port, medium, pressure, temperature, voltage, and connector confirmation.
- OEM and ODM supply for distributors, equipment manufacturers, and industrial projects.
- Private label packaging, export cartons, bulk orders, and stable sourcing support.

FAQ

Question	Answer
Can the valve operate at zero inlet pressure?	No. The pilot-operated piston structure requires a minimum pressure differential.
What port sizes are available?	Common options range from G3/8 to G2. Confirm the thread standard before ordering.
Can it be used continuously at 180 C?	Suitability depends on the actual coil, seal, ambient temperature, pressure, installation, and duty cycle.

OEM & ODM Support

HOMIPNEU supports OEM and ODM supply for 2L(US) steam solenoid valves, including port sizes, thread standards, coil voltages, connector options, packaging, private labeling, and project-based model selection.

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