

VX Series 2/2 Way Direct Acting Solenoid Valve

Normally closed direct acting valve for air, water, oil, steam and compatible fluids



VX2120-08



VX2120-10



VX2120-15

Product Overview

The HOMIPNEU VX Series is a 2 port, 2 position direct acting solenoid valve for automatic on-off control of compressed air and compatible fluids. Its normally closed design keeps the pipeline shut when the coil is de-energized and opens the flow path when electrical power is applied. Brass valve bodies, multiple port sizes and VITON or NBR seal options support a broad range of industrial fluid-control applications.

Key Features

- 2/2-way normally closed function for dependable on-off pipeline control.
- Direct acting operation without reliance on a large pressure differential.
- Suitable for air, water, oil, steam and compatible neutral fluids.
- Brass valve body with 1/8-inch to 1/2-inch port options.
- VITON and NBR seal selections for different temperature requirements.

Applications

- Compressed-air circuits, pneumatic equipment and small machine panels.
- Water supply, washing, cleaning and cooling equipment.
- Compatible steam and oil control systems.
- OEM machinery, maintenance replacement and distributor stock programs.

Technical Specifications

Parameter	Specification
Product Type	2/2-way direct acting solenoid valve
Control Function	Normally closed
Working Medium	Air, water, oil, steam and compatible neutral fluids
Motion Pattern	Direct drive type
Working Pressure	0-7 kgf/cm ²
Flow Orifice Options	3 mm, 10 mm and 13 mm; model-dependent
Port Range	1/8 in, 1/4 in, 3/8 in and 1/2 in
Temperature with VITON Seal	-5 to 150 deg C
Temperature with NBR Seal	-5 to 80 deg C
Valve Body Material	Brass

Operating Principle

When the coil is not energized, the return spring keeps the sealing element on the valve seat and blocks flow between ports P and A. When the coil is energized, the electromagnetic force lifts the moving iron core directly, opening the flow path. Removing power allows the spring to return the valve to its normally closed state.

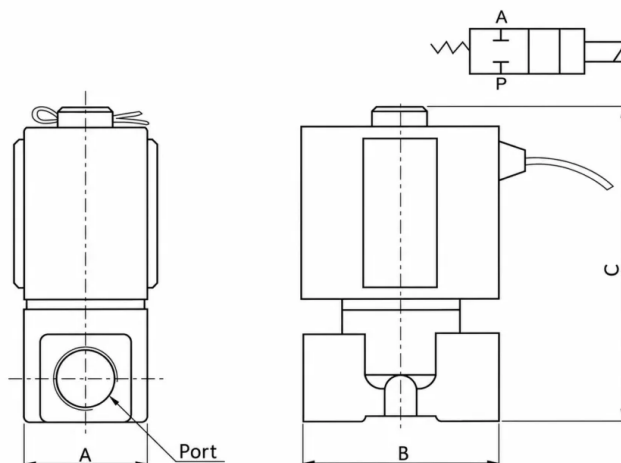
Selection and Ordering Guidance

- Confirm the required port size, thread type, voltage and electrical frequency.
- Match the seal material to the working medium and operating temperature.
- Check pressure, fluid viscosity, flow demand and installation direction before ordering.
- Use the exact model and dimensional data when replacing an existing valve.
- OEM and ODM supply, private labeling and export packaging are available.

Installation and Safety Notes

- Depressurize the pipeline and isolate electrical power before installation or maintenance.
- Install a suitable upstream filter and keep the flow direction consistent with the valve marking.
- Do not exceed the specified pressure or temperature range.

Dimension Drawing



Model Selection and Dimensions

Model	Port	A	B	C
VX2120-06	1/8 in	26	40	66
VX2120-08	1/4 in	26	40	66
VX2120-10	3/8 in	40	48	78
VX2120-010A	3/8 in	47	66	88
VX2120-15	1/2 in	47	66	88

All dimensions are in millimetres. The valve symbol in the original drawing indicates the normally closed 2/2-way function.

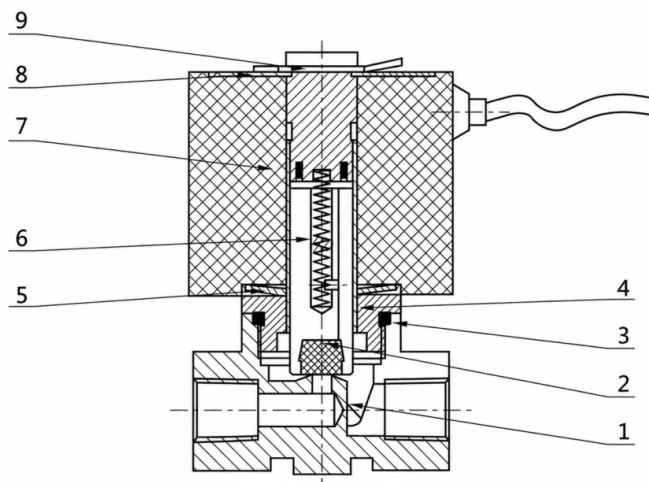
Model Range Notes

- VX2120-06 and VX2120-08 use the compact 26 x 40 mm body envelope.
- VX2120-10 uses a larger 40 x 48 mm valve body for the 3/8-inch connection.
- VX2120-010A and VX2120-15 share the 47 x 66 mm body envelope.
- Confirm coil voltage, seal material and medium compatibility before final model selection.

Typical Use Conditions

Use clean, compatible fluid within the selected pressure and temperature range. For steam and hot-fluid service, confirm VITON sealing, coil temperature rating and installation orientation. For water, air and general-purpose service, confirm NBR compatibility and ensure the pipeline is free from scale, particles and sealing debris.

Inner Structure



Inner Structure Parts

No.	Name	Quantity	Material
1	Valve Body	1	HPb59-1
2	Moving Iron Core Assembly	1	-
3	O-Ring	1	PTFE
4	Pilot Head Assembly	1	-
5	Spring	1	1Cr19Ni9Ti
6	Spring	1	1Cr19Ni9Ti
7	Coil	1	-
8	Nameplate	1	LY12
9	Circlip	1	Spring steel

Item numbers correspond directly to the original inner-structure drawing above.

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>