

5404 Series High Pressure Solenoid Valve

Normally closed brass valve for high-pressure air, water and compatible oil control



5404-04



5404-04D



5404-08D

Product Overview

The HOMIPNEU 5404 Series is a normally closed guide-type solenoid valve for automatic on-off control in high-pressure fluid systems. Its brass body, PTFE sealing element, IP65 protection and temperature capability up to 150 deg C support demanding air, water, oil and compatible neutral-fluid applications. Available port sizes range from 1/2 inch to 1 inch for industrial pipelines and OEM equipment.

Key Features

- Normally closed function keeps the pipeline shut when the coil is de-energized.
- High-pressure capability for compatible gas and liquid control applications.
- Operating temperature range from -5 to 150 deg C.
- Brass body and PTFE seal support durability and fluid compatibility.
- IP65 coil protection with AC and DC voltage options.
- Port sizes include 1/2 inch, 3/4 inch and 1 inch.

Applications

- High-pressure compressed-air systems and industrial control panels.
- Water treatment, washing, cooling and cleaning equipment.
- Compatible oil circuits, test equipment and process machinery.
- OEM machinery, maintenance replacement and distributor stock programs.

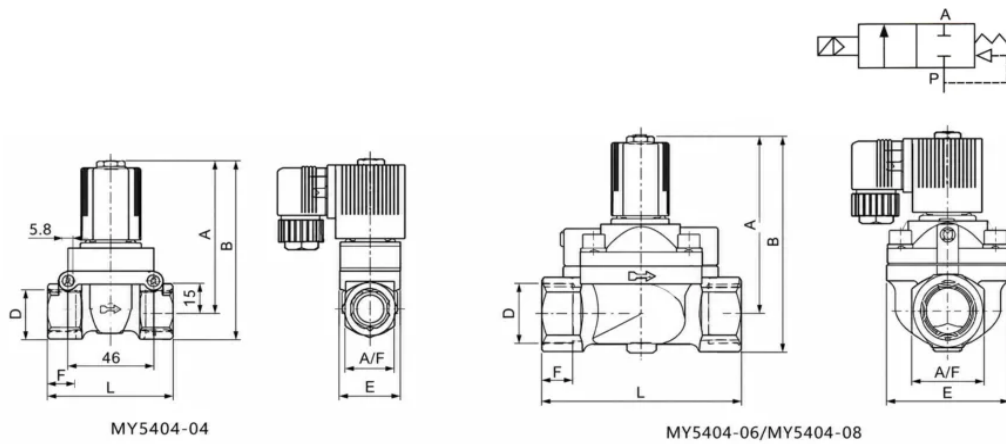
Technical Specifications

Parameter	Specification
Working Medium	Air, water and compatible oil
Motion Pattern	Guide type
Valve Function	2/2-way, normally closed
Flow Aperture	12 mm (5404-04); 25 mm (5404-06 and 5404-08)
Kv Value	2 (5404-04); 5 (5404-06); 10 (5404-08)
Port Size	1/2 inch, 3/4 inch and 1 inch
Working Pressure - 5404-04	Gas 1-50 kgf/cm ² ; liquid 1-50 kgf/cm ²
Working Pressure - 5404-06	Gas 1-30 kgf/cm ² ; liquid 1-25 kgf/cm ²
Working Pressure - 5404-08	Gas 1-30 kgf/cm ² ; liquid 1-25 kgf/cm ²
Maximum Pressure Resistance	75 kgf/cm ² (5404-04); 40 kgf/cm ² (5404-06/08)
Operating Temperature	-5 to 150 deg C
Voltage Tolerance	Rated voltage +/-10%
Protection Class	IP65
Power Consumption	AC 5.5 VA; DC 9 W
Insulation Class	Class F
Body Material	Brass
Seal Material	PTFE

Selection Guidance

- Confirm the working medium, pressure, temperature and seal compatibility before ordering.
- Select the port size according to pipeline diameter, required flow and available installation space.
- Confirm AC or DC voltage and ensure the supply stays within the rated voltage tolerance.
- Use the 5404-04 configuration for the highest listed pressure range on this product page.

Dimension Drawing and Valve Symbol



Model Selection and Dimensions

Model	Inner Hole	Port	A	B	F	E	L	A/F
5404-04	12	1/2 in	84	98	13	32	63.5	28
5404-04B	15	1/2 in	75	89	13	32	63.5	28
5404-06	20	3/4 in	99.5	125	16	60	91	41
5404-08	25	1 in	99.5	125	16	60	91	41

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

Working Principle

When the coil is de-energized, the valve remains closed and blocks flow between ports P and A. When the rated voltage is applied, the electromagnetic actuator opens the valve and allows the selected medium to pass. Removing power returns the valve to its normally closed state.

Model Identification

- 5404-04 and 5404-04B use 1/2-inch ports with different internal-hole dimensions and overall heights.
- 5404-06 uses a 3/4-inch port and 20 mm internal hole.
- 5404-08 uses a 1-inch port and 25 mm internal hole.

Installation and Operating Guidance

- Depressurize the pipeline and isolate electrical power before installation or maintenance.
- Install the valve in the indicated flow direction and keep sealing material out of the internal passage.
- Use the valve body wrench flats when tightening the pipe connection; do not apply load to the coil housing.
- Confirm that system pressure and temperature remain within the selected model limits.
- Energize the coil only at the rated voltage and verify the correct AC or DC specification.
- Pressurize the system gradually and check all pipe connections for leakage.

Maintenance and Safety Notes

- Keep the medium clean and install suitable filtration where contamination may affect sealing.
- Do not use the valve with fluids that are incompatible with brass or PTFE.
- The coil can become hot during continuous operation; allow it to cool before handling.
- Replace damaged coils, seals or valve bodies rather than operating a leaking or unstable valve.

Ordering Information

Specify the 5404 model, port size, working medium, maximum operating pressure, fluid temperature, voltage, frequency, quantity and required connection standard. HOMIPNEU supports OEM and ODM supply, private-label packaging and bulk-order projects subject to technical confirmation.

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