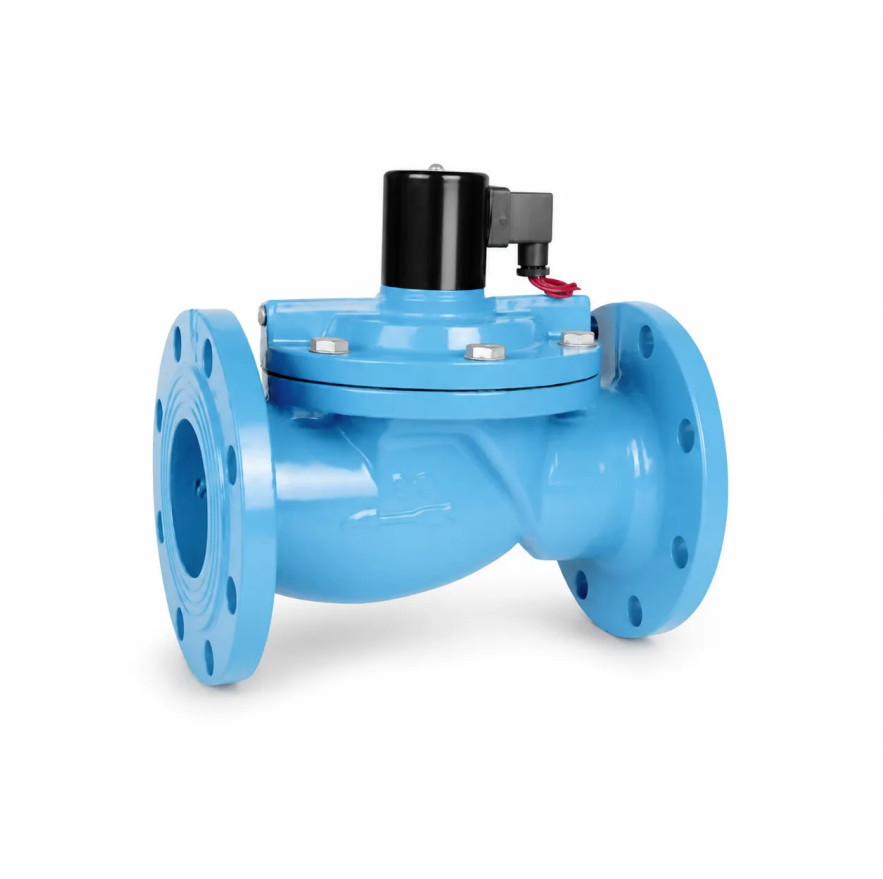
Teflon Solenoid Valves

Flanged cast-iron solenoid valve for water, gas and low-viscosity oil service



Product Overview

The HOMIPNEU Teflon Solenoid Valve is a large-port flanged valve designed for automated control of compatible water, gas and low-viscosity oil pipelines. Its cast-iron body, diaphragm-style cover assembly and electrically operated coil provide remote on/off control for industrial fluid systems with flange sizes from DF40 to DF150.

Key Features

- Flanged pipeline connection for large nominal sizes.
- Cast-iron body for durable industrial fluid-control service.
- Suitable for water, gas and oil with viscosity up to 20 cSt.
- Available in DF40, DF50, DF65, DF80, DF100, DF125 and DF150 models.
- AC or DC coil options with Class B insulation.
- Operating pressure range from 0.03 MPa to 0.8 MPa.

Applications

- Industrial water-supply and drainage systems.
- Compressed-air and process-gas pipelines.
- Low-viscosity oil circulation and transfer systems.
- Automated process equipment requiring electrical on/off flow control.

Technical Specifications

Parameter	Specification
Product Type	Flanged solenoid valve
Maximum Working Pressure	1.0 MPa
Allowable Working Pressure	0.03-0.8 MPa
Ambient Temperature	-10 to +50 deg C
Medium Temperature	0-80 deg C
Working Medium	Water, gas and oil
Maximum Medium Viscosity	20 cSt
Body Material	Cast iron
Insulation Class	Class B
Coil Power	AC: 30 VA / DC: 20 W
Coil Temperature Rise	No more than 80 deg C
Allowable Voltage Fluctuation	AC: +/-10% / DC: +/-1%

Operating Principle

When the solenoid coil is energized, the valve actuator changes the pressure condition above the diaphragm and allows the main flow passage to open. When electrical power is removed, the valve returns to its normal state. The connected pipeline must remain within the specified pressure, temperature and medium limits.

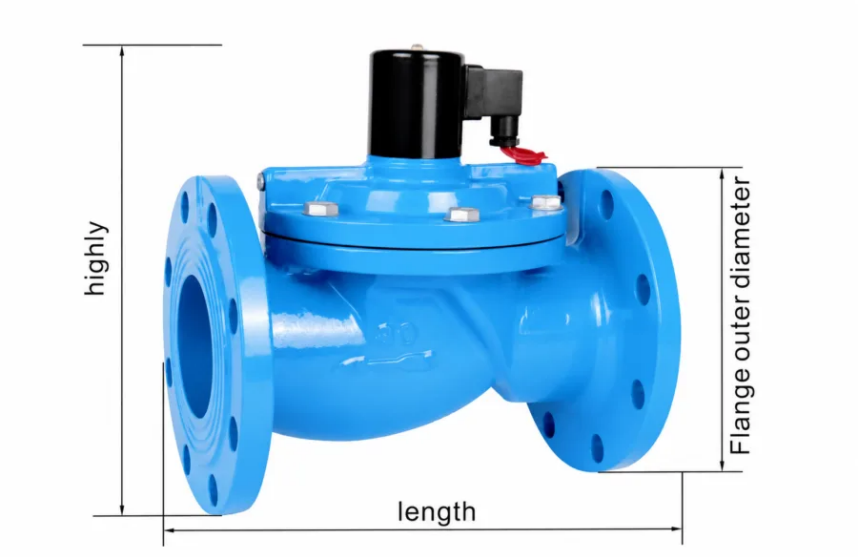
Installation and Operating Guidance

- Confirm the flow direction and flange dimensions before installation.
- Clean the pipeline thoroughly to remove scale, welding residue and particles.
- Support the pipeline so that external load is not transferred to the valve body.
- Use compatible flange gaskets and tighten bolts evenly in a cross pattern.
- Verify coil voltage and frequency before energizing the solenoid.
- Pressurize the system gradually and inspect the flange joints and valve cover for leakage.

Maintenance and Safety Notes

- Isolate electrical power and depressurize the pipeline before maintenance.
- Do not exceed the specified pressure, temperature or voltage limits.
- Keep the coil and electrical connector dry and securely fastened.
- Inspect the diaphragm, sealing surfaces and flange fasteners at regular intervals.

Dimension Drawing



Model Selection and Dimensions

Model	Length	Height	Flange O.D.	Bolt Circle x Hole x Qty
DF40	210	225	157	110 x 17 x 4
DF50	210	225	157	125 x 17 x 4
DF65	260	253	190	145 x 17 x 4
DF80	260	253	190	160 x 17 x 8
DF100	310	275	214	180 x 17 x 8
DF125	380	390	250	210 x 17 x 8
DF150	410	410	285	240 x 17 x 8

All dimensions are in millimetres. Verify the applicable flange standard before ordering or installation.

Selection Notes

- Choose the model according to required nominal size and flange dimensions.
- Confirm the medium, working pressure, temperature and viscosity before selection.
- Specify AC or DC coil requirements and the exact supply voltage when ordering.

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