

Teflon Flanged Solenoid Valves for Fluid Control

Direct-acting normally closed valve for compatible liquid and gas service



Product Overview

The HOMIPNEU Teflon Flanged Solenoid Valve series is designed for automatic on-off control of compatible liquids and gases. The page-listed DHF11 configuration uses a direct-acting normally closed structure, PTFE or VITON sealing options and AC or DC coil choices for industrial fluid-control equipment.

Key Features

- Direct-acting, normally closed operating configuration.
- PTFE or VITON sealing options for compatible media.
- Suitable for liquid and gas applications within the specified limits.
- Available nominal sizes from 1/8 inch to 2 inches.
- 24 VDC and 220-240 VAC 50/60 Hz voltage options.
- Compact valve body with electrically operated on-off control.

Applications

- Water and compatible liquid-control equipment.
- Gas-line shutoff and process-control systems.
- Chemical and fluid-handling machinery after material verification.
- OEM equipment and maintenance replacement projects.

Product Function

The solenoid actuator provides electrical on-off control of the valve flow passage. The normally closed configuration blocks flow when de-energized and opens after the correct coil voltage is applied.

Material and Medium Compatibility

- Confirm whether PTFE or VITON sealing is required for the selected medium.
- Check chemical compatibility, temperature and viscosity before installation.
- Keep solid particles and contamination out of the valve flow passage.

OEM and Ordering Support

HOMIPNEU supports model confirmation, voltage selection, sealing-material options, bulk supply, export packaging and private-label requirements for distributors and equipment manufacturers.

Technical Specifications

Parameter	Specification
Series / Model	DHF11
Working Medium	Liquid and gas
Medium Temperature	-5 to +130 deg C
Working Pressure	0.1-8 kg / 0-0.15 kg (page-listed dual range)
Operating Form	Direct acting, normally closed
Sealing Material	PTFE / VITON
Available Calibers	1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2 in
Voltage Options	24 VDC; 220-240 VAC, 50/60 Hz

Operating Principle

When the coil is energized, electromagnetic force moves the internal sealing element and opens the flow passage. When power is removed, the return mechanism closes the valve. The exact fluid compatibility, pressure range and seal selection must be confirmed for the intended medium before ordering.

Installation and Operating Guidance

- Confirm the valve model, connection size, voltage and flow direction before installation.
- Flush the pipeline to remove debris, scale and sealing material before connecting the valve.
- Keep the coil and electrical connector protected from moisture and mechanical stress.
- Use compatible gaskets, seals and fastening methods for the selected connection arrangement.
- Pressurize the system gradually and inspect all joints and sealing areas for leakage.

Maintenance and Safety Notes

- Isolate electrical power and release system pressure before servicing the valve.
- Do not exceed the confirmed temperature, pressure or voltage limits.
- Replace the seal or valve assembly if leakage, sticking or visible damage is found.
- Confirm PTFE or VITON compatibility with the actual medium and cleaning chemicals.

Electrical Selection

- Match the coil exactly to 24 VDC or 220-240 VAC 50/60 Hz as ordered.
- Verify connector wiring and protective grounding before energizing the valve.
- Avoid continuous voltage outside the permitted supply range.

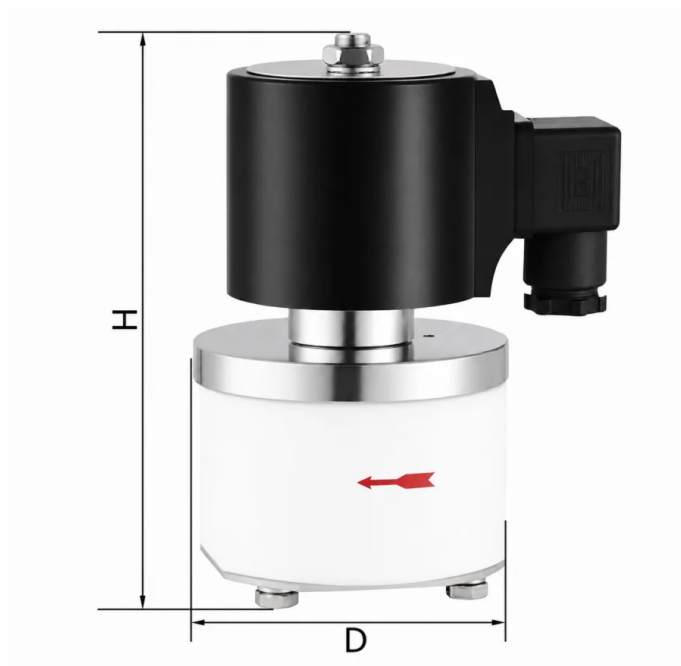
Selection Checklist

- Model and connection size.
- Working medium, pressure and temperature.
- PTFE or VITON sealing material.
- Coil voltage, frequency and required quantity.

Ordering Information

Specify the complete DHF-11 model, caliber, bore size, seal material, working medium, pressure range, medium temperature, coil voltage and order quantity.

Dimension Drawing



Model Selection and Dimensions

Model	Caliber	Bore	Body O.D. D	Height H
DHF-11-4	1/8 in	9 mm	44.5 mm	85 mm
DHF-11-8	1/4 in	12 mm	44.5 mm	85 mm
DHF-11-15	1/2 in	20 mm	70 mm	127 mm
DHF-11-20	3/4 in	25 mm	80 mm	136 mm
DHF-11-25	1 in	32 mm	95 mm	145 mm
DHF-11-32	1 1/4 in	40 mm	120 mm	200 mm
DHF-11-40	1 1/2 in	50 mm	130 mm	220 mm
DHF-11-50	2 in	63 mm	150 mm	249 mm

Dimensions are based on the current product-page table. Confirm connection and flange details before ordering.

Selection Notes

- Select the model according to required connection size and flow capacity.
- Confirm the exact pressure unit and dual pressure range with HOMIPNEU before final selection.
- Specify seal material, working medium, temperature, voltage and order quantity.

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