

2S Series Stainless Steel Solenoid Valve

Two-position, two-way direct-acting solenoid valve for air, water, oil and gas service.



Product Overview

The 2S Series is a compact direct-acting 2/2-way solenoid valve with a precision-cast stainless-steel body. It is intended for reliable on/off control of compatible fluids, including air, water, light oil and gas. Normally closed and normally open versions are available, together with several coil and connection options.

Valve configuration	2/2-way, direct acting
Body material	Stainless steel SS304 precision casting
Available function	Normally closed (NC) or normally open (NO)
Working media	Air, water, oil and gas
Fluid viscosity	Up to 20 cSt
Operating temperature	-5 to 80 deg C
Voltage tolerance	+/-10%
Seal options	NBR, EPDM or VITON

Model Code Example

2S	160	15	K	D	DC24V
Series	Orifice code	Port code	Function	Coil style	Voltage

Function code: K = normally open (NO); blank = normally closed (NC). **Coil code:** D = plastic coil; E = proof coil; G = waterproof coil; blank = hulled coil.

Technical Data

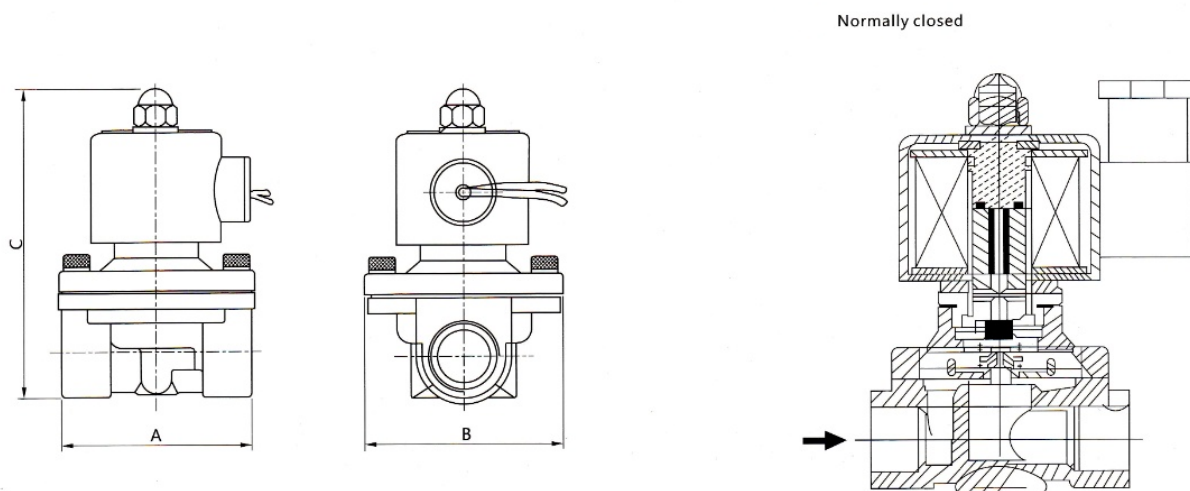
Parameter	2S025-06	2S025-08	2S040-10	2S160-15	2S200-20	2S250-25	2S320-32	2S400-40	2S500-50
Working medium	Air / Water / Oil / Gas								
Motion pattern	Direct acting								
Type	NC or NO								
Orifice (mm)	2.5	2.5	4	16	20	25	35	40	50
CV value	0.23	0.23	0.6	4.8	7.6	12	24	29	48
Port size	1/8 in	1/4 in	3/8 in	1/2 in	3/4 in	1 in	1 1/4 in	1 1/2 in	2 in
Fluid viscosity	Below 20 cSt								
Working pressure	0-7 kgf/cm ² *								
Max. pressure resistance	10	10	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Temperature range	-5 to 80 deg C								
Voltage tolerance	+/-10%								
Body material	Stainless steel								
Seal material	NBR / EPDM / VITON								

* Pressure suitability depends on the medium. Typical source values: air 0-7 kgf/cm²; water 0-5 kgf/cm²; oil 0-5 kgf/cm²; gas 0-7 kgf/cm². Confirm the final selection for the actual fluid, temperature and duty cycle.

Coil Parameters

Coil option	Protection / insulation	Size range	AC rating	DC rating
Plastic coil	IP65 / Class F	DN2.5-25 mm	20 VA	18 W
Plastic coil	IP65 / Class F	DN35-50 mm	40 VA	30 W
Hulled coil	IP54 / Class F	DN2.5-5 mm	16 VA	16 W
Hulled coil	IP54 / Class F	DN10-25 mm	20 VA	28 W
Hulled coil	IP54 / Class F	DN35-50 mm	46 VA	30 W

Overall Dimensions and Internal Construction



Model	A (mm)	B (mm)	C (mm)
2S025-08	40	25	86
2S040-10	43	27	94
2S160-15	70	57	110
2S200-20	73	58	115
2S250-25	98	77	124
2S320-32	110	86	160
2S400-40	122	95	170
2S500-50	165	120	190

The construction illustration represents the normally closed version. Dimensions are reproduced from the supplied same-series technical sheet and should be reconfirmed before final equipment design.

Selection and Installation Notes

- **Select the function carefully:** choose normally closed (NC) when the valve should remain closed without power; choose normally open (NO) when the valve should remain open without power.
- **Install a filter:** where the fluid may contain particles or debris, install a strainer upstream. A filtration level around 60 mesh or finer is recommended in the source sheet.
- **Observe flow direction:** the arrow on the valve body must match the intended medium flow direction.
- **Check chemical compatibility:** confirm that the selected body, seal and coil materials are suitable for the actual fluid and temperature.
- **Thread options:** NPT and Rc thread forms are listed for the series. Confirm the exact thread standard on the purchase order.
- **Electrical control:** the coil is time-control capable; other switching methods may also be used when correctly rated.

Material and Option Reference

Item	Available reference
Seal material	VITON: -10 to 130 deg C; EPDM: -10 to 110 deg C; silicone rubber VMQ: -20 to 110 deg C
Body / core	Stainless-steel valve body and stainless-steel core components
Coil options	Plastic coil, proof coil, waterproof coil or hulled coil
Junction box	Standard junction box listed for the plastic coil
Other voltage	Other coil voltages may be available on request

Source note: Product images, model data, dimensions and construction information in this document are based on the technical sheets supplied by the user. Exact HOMIPNEU dimensions, electrical details and production specifications should be confirmed before ordering.

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