SANO

Servo Assisted Normally Open Solenoid Valve

Coil & Connector sold separately

Image for display purpose only

Important: Keep this document

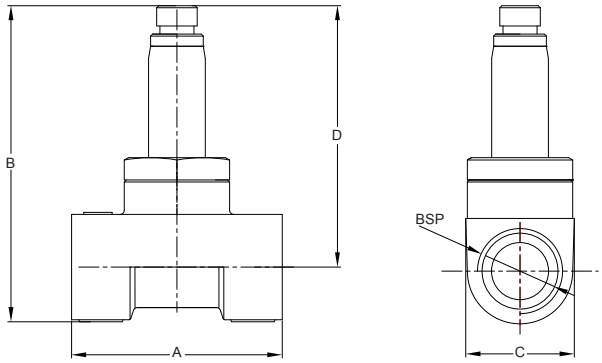
CAUTION! Installation and connection should only be carried out by a qualified person and in accordance with wiring regulations.

- Isolate mains supply before installation commences.
- Isolate mains supply before attaching cable to coil.
- Isolate mains supply before detaching cable from coil.
- If this equipment is installed or used in a way not specified by the manufacturer, its safety may be impaired.

High flow solenoid valves suitable for water, air, oil, inert gases and other fluids non-corrosive for copper alloys, with viscosity up 2° Engler.

Product Drawing

TYPE	BSP	A	B	C	D
SANO15	1/2"	72	95.5	42	82
SANO20	3/4"	100	105	65	87.5
SANO25	1"	104	105	65	87.5
SANO32	1 1/4"	143	127	102	98
SANO40	1 1/2"	145	127	102	98
SANO50	2"	173	140	118	105



NOTE

- For technical information on solenoid coils refer to coils & connectors datasheet.

1. Valve positioning

Install the valve so the coil is not below the horizontal level of the pipework, this is to prevent condensation gathering in the coil. The flow must be in the direction of the arrow embossed on the valve.

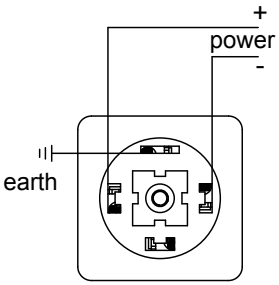
2. Fitting the valve body to the pipework

Fit the valve body to the pipework via the BSP threaded connections. The coil should not be mounted when fitting the valve.

3. Fitting coil to the valve body

Unscrew the orange cap from the solenoid valve stem. Lift the orange cap and washer from the solenoid valve. Ensure the O Ring is located at the base of the stem. Place the coil on the stem with the EPH logo facing up (as shown on the image on page 1). Fit the steel spacer (included in valve box) above the solenoid coil. Fit the washer and tighten the orange cap to hold it all in place.

4. Wiring Connections



It is best practice to wire the live or positive connection to terminal 1 and the neutral or negative connection to terminal 2. The earth connection will be on the wider pin at the top of the connector. Terminal 3 is not used.

Ensure that all surfaces are dry when fixing the connector and coil initially.
To achieve the best possible IP rating care should be taken to seal the cable firmly into the gromit to prevent any water ingress into the connector.

Ensure that the gasket between the connector and coil is correctly fitted and tightened to seal the connector correctly.

The gromit on the solenoid connector should be facing down to allow any water to flow away from the cable entry.
The internal terminal connector can be rotated in the connector housing to match the orientation of the solenoid valve.

CAUTION!

- Electrical installation must conform with current I.E.E. regulations.
- Under no circumstances should the coil be insulated or covered by any other material.
- Lack of ventilation will cause the coil to heat up beyond the maximum permissible ambient temperature.

5. Commissioning

Once the system has been filled, carry out the following to ensure correct operation of the valve.

A) Switch **off** the power to the solenoid coil.

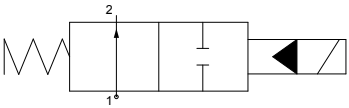
B) The coil should instantly click and fully open the valve.

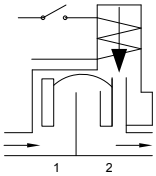
C) Check for flow from the solenoid valve.

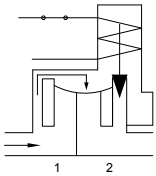
If flow is not present - check that the water supply is to the valve and that the correct voltage has been applied to the solenoid coil.

D) Switch **on** power to solenoid valve and ensure flow stops.

TECHNICAL SPECIFICATION







OPERATION & INSTALLATION		ELECTRICAL SPECIFICATIONS	
Normally closed 2 port valve		Closing time	10 msec
Servo assisted		Press forged brass body	
Female end connections	3/8" to 2" BSP	Internal parts stainless steel	17% CR
Energised coil opens plug		Diaphragm	Viton Fluoroelastomer
N.B. For the valve to open and close correctly there must be a minium differential pressure of 0.1bar		Fluid temperature	-10 to +90˚C
		With dc coil indicated pressure values must be reduced by 60%	

VALVE TYPE	THROUGH BORE DIA.Ø MM	FEMALE CONNECTION BSP	KV M^3/H	SHUT DOWN TIME WITH 1 BAR DP SEC	MINIMUM DIFFERENTIAL PRESSURE BAR	MAXIMUM DIFFERENTIAL PRESSURE BAR	TEST PRESSURE (DIN2401) PN BAR	WORKING TEMPERATURE	UNIT WEIGHT KG
SANO15	13	1/2"	3	1	0.1	20	25	-10 to 90°C	0.59
SANO20	20	3/4"	8.4	1.5	0.1	20	25	-10 to 90°C	1.05
SANO25	25	1"	9.6	1.5	0.1	20	25	-10 to 90°C	1.11
SANO32	35	1 1/4"	25.2	2.5	0.1	10	16	-10 to 90°C	3.12
SANO40	40	1 1/2"	30	3	0.1	10	16	-10 to 90°C	2.87
SANO50	50	2"	37.2	3.5	0.1	10	16	-10 to 90°C	4.26

COILS FOR SERVO ASSISTED NORMALLY OPEN SOLENOID VALVES

COIL TYPE	POWER SUPPLY	ACTIVE POWER W	STARTING POWER W	MAX WORKING TEMPERATURE
C24ACNO	24 Vac	6-9	9	80°C
C230ACNO	230 Vac	10-14	14	80°C

TECHNICAL FEATURES

- All coils are produced with copper in H class (180˚C)
- 30% glass fibre thermoplastic body, insulation class f (155 suitable for continuous duty (100% ED)
- IP65 protection degree.
- Voltage tolerance: +-10% in AC and +10-5% in AC
- Electric connector over 2P+ DIN 43650 socket

Note: If the coil runs continuously for an extended period, its temperature will rise, leading to increased resistance and a subsequent drop in power.

CONNECTOR FOR COILS

TECHNICAL FEATURES

- Push on connector in compliance with DIN 43650, suitable for all coils
- Cable gland (cable diameter 6 to 8mm)

CONNECTOR TYPE	DESCRIPTION
CONN	Rotational connector for coil

The crossed out wheelie bin symbol on this product indicates that this product must not be disposed of in your general waste. It can be taken to your Local Authority Civic Amenity site for free or returned to your retailer for free when you are buying a replacement. Inappropriate waste handling could lead to negative effects on the environment and human health. With your cooperation you contribute to the correct disposal, reuse, recycling and recovery of the components of this product and the protection of the environment.

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2026-07-29_SANO_DS_PK