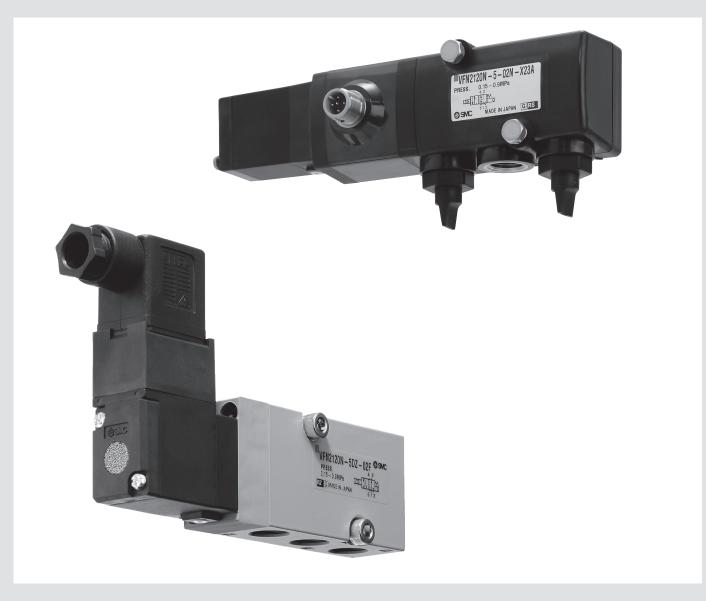
## **NAMUR Solenoid Valves**





#### **Directional Control Valves**

NAMUR Interface 3 Port Solenoid Valve/VFN200N	Page 01
NAMUR Interface 5 Port Solenoid Valve/VFN2000N	Page 04
NAMUR Interface 3/5 Port Solenoid Valve/	
IP67 Compliant, Hygienic Design Type/	
VFN2120N-X23/-X36	Page 11



## **NAMUR Interface 3 Port Solenoid Valve**

## Series VFN200N



#### The interface surface complies with NAMUR.

• Can be directly installed on the industrial valve actuator that complies with NAMUR.

#### **How to Order**



NAMUR Interface

G

#### **Voltage**

1	100 V AC, 50/60 Hz
2	200 V AC, 50/60 Hz
3	110 to 120 V AC, 50/60 Hz
4	220 V AC, 50/60 Hz
5	24 V DC
6	12 V DC
7	240 V AC, 50/60 Hz

For other rated voltages, please contact SMC.

#### Electrical entry

E	Grommet terminal				
Т	Conduit terminal				
D	DIN terminal				
DO	DIN terminal (Without connector)				
Y Note)	DIN terminal				
YO Note)	DIN terminal (Without connector)				

Note) Conforming to DIN 43650, Form B

#### Solenoid Thread typ

types		_	Single solenoid
Bc (DT)			Olingic soleriola
110 (1 1)		D	Double solenoid
G (PF)			
G (1.1)	ļ		
NPT			
	Rc (PT)	Rc (PT) G (PF)	Rc (PT) G (PF)

#### Manual override

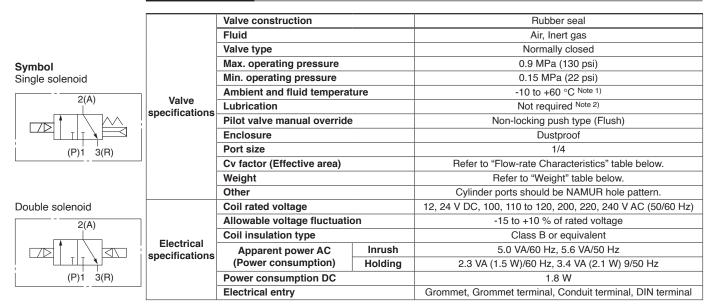
_	Non-locking push type (Flush)
Α	Non-locking push type (Extended)
В	Locking type (Tool required)

#### Light/Surge voltage suppressor

_	None
Z	With light/surge voltage suppressor
S Note)	With surge voltage suppressor

Note) Available for grommet type only.

#### **Specifications**



Note 1) Use dry-air at low temperature.

Note 2) Use turbine oil No.1 (ISO VG32), if lubricated.

#### Flow-rate Characteristics

			Flo	w-rate ch	aracterist	ics			
			1→4/2 (	P→A/B)		4/2	2→5/3 (A	/B→EA/E	B)
		C [dm <sup>3</sup> / (s·bar)]	b	Cv	Q Note) [l/min (ANR)]	C [dm <sup>3</sup> / (s·bar)]	b	Cv	Q Note) [I/min (ANR)]
2-position	Single solenoid	2.68	0.40	0.72	729	5.41	0.31	1.38	1384
2-position	Double solenoid	2.68	0.40	0.72	729	5.41	0.31	1.38	1384

Note) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

#### Weight

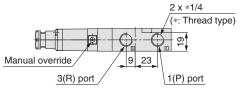
	[g]
Model	Weight
VFN212N-5D-02F	240
VFN212N-5D-02F-D	380

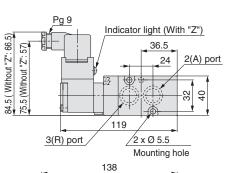


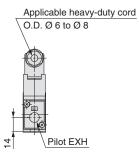
## NAMUR Interface 3 Port Solenoid Valve Series VFN200N

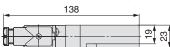
#### **Dimensions**

## DIN terminal VFN212N-□(Y)□□-02□-□-Q

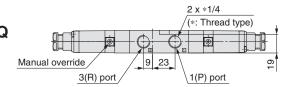


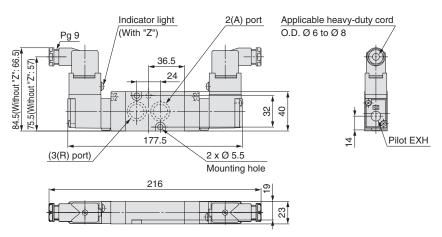




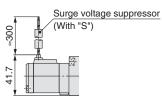


## DIN terminal VFN212N-□<sup>D</sup><sub>(Y)</sub>□□-02□-D-□-Q

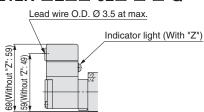




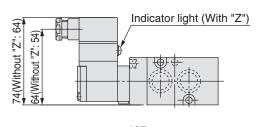
#### 



## Grommet terminal VFN212N-□E□□-02□-□-□-Q



## Conduit terminal VFN212N-□T□□-02□-□-□-Q

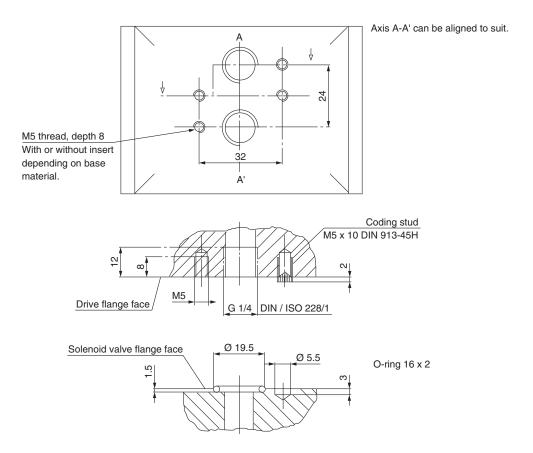






## Series VFN200N

#### **NAMUR Mounting Pattern**



The solenoid valve can be attached with 2 mounting bolts.

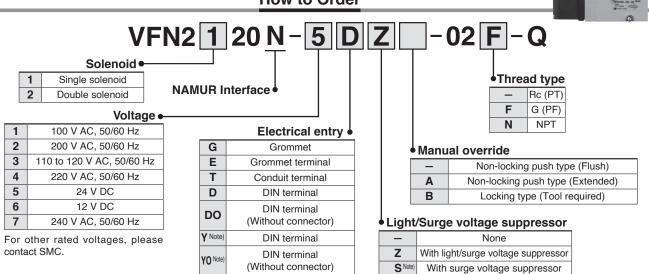
The positioning of the coding stud hole is left up to the manufacturer and thus also determines the location of the coding stud.

## NAMUR Interface 5 Port Solenoid Valve Series VFN2000N

#### The interface surface complies with NAMUR.

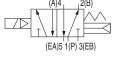
Can be directly installed on the industrial valve actuator that complies with NAMUR.

#### **How to Order**

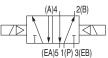


Note) Conforming to DIN 43650, Form B

#### **Symbol** Single solenoid



#### Double solenoid



#### **Specifications**

	Valve construction		Rubber seal		
	Fluid		Air, Inert gas		
	Max. operating pressure		0.9 MPa (130 psi)		
	Min. operating pressure		0.15 MPa (22 psi)		
	Ambient and fluid temperat	ture	-10 to +60 °C Note 1)		
Valve	Lubrication		Not required Note 2)		
specifications	Pilot valve manual override	•	Non-locking push type (Flush)		
. [	Enclosure		Dustproof		
. [	Port size		1/4		
	Cv factor (Effective area)		Refer to "Flow-rate Characteristics" table below.		
. [	Weight		Refer to "Weight" table below.		
	Other		Cylinder ports should be NAMUR hole pattern.		
	Coil rated voltage		12, 24 V DC, 100, 110 to 120, 200, 220, 240 V AC (50/60 Hz)		
	Allowable voltage fluctuation	on	-15 to +10 % of rated voltage		
Electrical	Coil insulation type		Class B or equivalent		
specifications	Apparent nower AC		5.0 VA/60 Hz, 5.6 VA/50 Hz		
Specifications	(Power consumption)	Holding	2.3 VA (1.5 W)/60 Hz, 3.4 VA (2.1 W) 9/50 Hz		
	Power consumption DC		1.8 W		
	Electrical entry		Grommet, Grommet terminal, Conduit terminal, DIN terminal		

Note 1) Use dry-air at low temperature.

Note 2) Use turbine oil No.1 (ISO VG32), if lubricated.

#### **Flow-rate Characteristics**

			Flo	w-rate ch	aracterist	ics			
			1→4/2 (	P→A/B)		4/2	2→5/3 (A	/B→EA/E	(B)
		C [dm <sup>3</sup> / (s·bar)]	b	Cv	Q Note) [l/min (ANR)]	C [dm <sup>3</sup> / (s·bar)]	b	Cv	Q Note) [l/min (ANR)]
2-position	Single solenoid	3.48	0.25	0.85	858	4.57	0.17	1.06	1077
z-position	Double solenoid	3.48	0.25	0.85	858	4.57	0.17	1.06	1077

Note) These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

#### Weight

Note) Available for grommet type only.

	[g]
Model	Weight
VFN2120N-5D-02F	260
VFN2120N-5D-02F-D	400



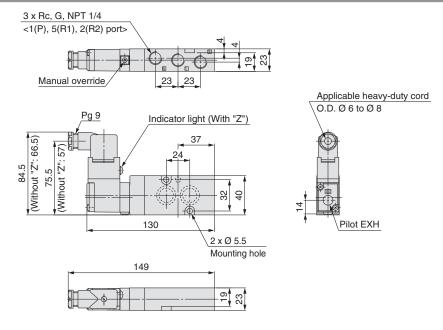
 $C \in$ 

RoHS

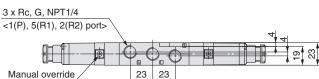
## Series VFN2000N

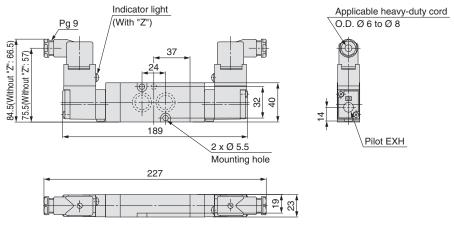
#### **Dimensions**

DIN terminal VFN2120N-□<sub>(Y)</sub>□□-02□-□-Q

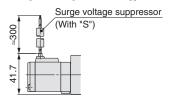


DIN terminal VFN2220N-□<sub>(Y)</sub>□□-02□-□-Q

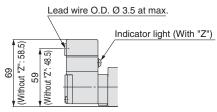




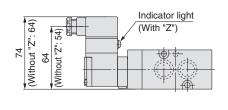
Grommet VFN2120N-□G□□-02□-□-Q



Grommet terminal VFN2120N-□E□□-02□-□-Q

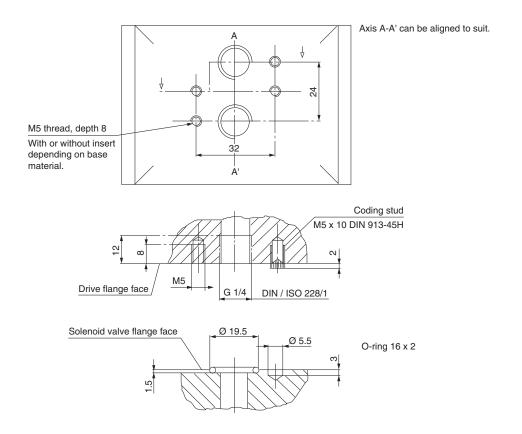


Conduit terminal VFN2120N-□T□□-02□-□-Q





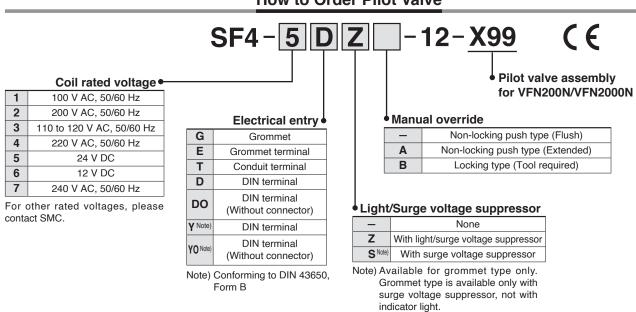
#### **NAMUR Mounting Pattern**



The solenoid valve can be attached with 2 mounting bolts.

The positioning of the coding stud hole is left up to the manufacturer and thus also determines the location of the coding stud.

#### **How to Order Pilot Valve**







## NAMUR Interface Solenoid Valves Specific Product Precautions 1

Be sure to read this before handling.

#### Design

#### **⚠** Warning

#### 1. Actuator drive

When an actuator, such as a cylinder, is to be driven using a valve, take appropriate measures to prevent potential danger caused by actuator operation.

#### 2. Holding pressure (including vacuum)

Since the valves are subject to air leakage, they cannot be used for applications such as holding pressure (including vacuum) in a pressure vessel.

## 3. Not suitable for use as an emergency shutoff valve, etc.

The valves are not designed for safety applications such as an emergency shutoff valve. If the valves are used for the mentioned applications, additional safety measures should be adopted.

## 4. Ensure sufficient space for maintenance activities.

When installing the products, allow access for maintenance.

#### 5. Release of residual pressure

For maintenance purposes install a system for releasing residual pressure.

#### Selection

## **Marning**

#### 1. Confirm the specifications.

Products are designed only for use in compressed air systems (including vacuum). Do not operate at pressures or temperatures, etc., beyond the range of specifications, as this can cause damage or malfunction. (Refer to the specifications.) Please contact SMC when using a fluid other than compressed air (including vacuum).

#### 2. Extended periods of continuous energization

Please contact SMC when a valve is continuously energised for an extended period of time or when the energised period is longer than the de-energised period.

#### **∧** Caution

## 1. Momentary energisation (Double solenoid valve)

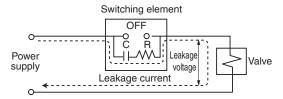
If a double solenoid valve is operated with momentary energization, it should be energised for at least 0.1 second. However, depending on the condition of the secondary load, it should be energised until the cylinder reaches the stroke end position, since there is a possibility of malfunction.

#### Selection

#### **∧** Caution

#### 2. Leakage voltage

Take note that the leakage voltage will increase when a C-R circuit (surge voltage suppressor) is used for protecting a switching device because of the passing leakage voltage through the C-R circuit.



The suppressor residual leakage voltage should be as follows. DC coil: 3 % or less of rated voltage

AC coil: 20 % or less of rated voltage

#### 3. Solenoid valve drive with SSR

If the minimum load current of the SSR is larger than that of the solenoid valve, this may cause a malfunction.

When selecting the SSR, refer to the element catalogue specifications.

#### 4. Surge voltage suppressor

If a surge protection circuit contains nonstandard diodes, such as Zener diodes or ZNR, a residual voltage that is in proportion to the protective circuit and the rated voltage will remain. Therefore, take into consideration the surge voltage protection of the controller.

In the case of diodes, the residual voltage is approximately 1 V.

#### 5. Operation in a low temperature condition

It is possible to operate a valve in extreme temperature, as low as -10  $^{\circ}\text{C}$ . Take appropriate measures to avoid freezing of drainage, moisture etc. in low temperature.

#### 6. Mounting orientation

Mounting orientation of a single solenoid valve is universal. When installing a double solenoid valve, mount the valve so that spool valve is horizontal.

#### Mounting

## **⚠** Warning

## 1. If air leakage increases or equipment does not operate properly, stop operation.

Check mounting conditions when air and power supplies are connected. Initial function and leakage tests should be performed after installation.

#### 2. Operation manual

Install the products and operate them only after reading the operation manual carefully and understanding its contents. Also, keep the manual where it can be referred to as necessary.

#### 3. Painting and coating

Warnings or specifications printed or affixed to the product should not be erased, removed or covered up. Also, applying paint to resinous parts may have an adverse effect due to the solvent in the paint.





## NAMUR Interface Solenoid Valves Specific Product Precautions 2

Be sure to read this before handling.

#### **Piping**

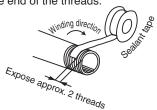
#### **⚠** Caution

#### 1. Preparation before piping

Before piping is connected, it should be thoroughly blown out with air (flushing) or washed to remove chips, cutting oil and other debris from inside the pipe.

#### 2. Wrapping of sealant tape

When screwing piping or fittings into ports, ensure that chips from the pipe threads or sealing material do not enter the piping. Also, if sealant tape is used, leave 1 . 5 to 2 thread ridges exposed at the end of the threads.



#### 3. Connection of fittings

When attaching fittings to valves, tighten with the tightening torque shown below.

Connection thread size	Proper tightening torque N·m(kgf·cm)
1/4	12 to 14 (120 to 140)

#### 4. Piping to products

When piping to a product, refer to the operation manual to avoid mistakes regarding the supply port, etc.

#### Wiring

## **⚠** Caution

#### 1. Applied voltage

When electric power is connected to a solenoid valve, be careful to apply the proper voltage. Improper voltage may cause malfunction or coil damage.

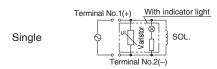
#### 2. Check the connections.

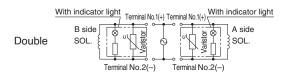
Check if the connections are correct after completing all wiring.

#### **Light/Surge Voltage Suppressor**

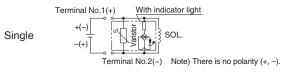
#### **⚠** Caution

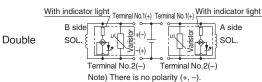
#### AC and 100 V DC





#### 24 V DC or less





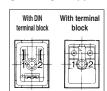
•Type G: Use lead wire from solenoid to connect with power side. Grommet with DC voltage surge voltage suppressor has polarity. Connect red lead wire to + (positive) side and black to – (negative) side.

Surge voltage suppressor		
DC	AC	
Red+	Varistor	

#### Wiring

#### **⚠** Caution

In the case of DIN terminal and terminal block (with indicator light/surge voltage suppressor), the interior wiring is shown below.



Applicable terminal: 1.25-3, 1.25-3S, 1.25Y-3N, 1.25Y-3S, but in the case of with DIN terminal block, is not a terminal structure.

Note) There is no polarity (+, -).





## NAMUR Interface Solenoid Valves Specific Product Precautions 3

Be sure to read this before handling.

#### **Changing Direction of DIN Terminal/Cable Entry**



To change direction of DIN terminal retaining screw, pull off outer cover, rotate connector board through 1 8 0 °. Replace cover and tighten screw.



#### Lubrication

#### **⚠** Caution

#### 1. Lubrication

- 1) The valve has been lubricated for life at the factory, and does not require any further lubrication.
- 2 ) If a lubricant is used in the system, use class 1 turbine oil (no additive), ISO VG 3 2. Once a lubricant is used in the system, lubrication must be continued because the original lubricant applied during manufacturing will be washed away. Refer to each manufacturer's brand name of class 1 turbine oil (no additive), ISO VG32 as shown below.

#### Class 1 Turbine Oil (No additive), ISO VG32

Classification of viscosity cst (40C)	Viscosity according to ISO Grade	32		
Idemitsu Kosan Co., Ltd.		Turbine oil P-32		
Nippon Oil Corporation		Turbine oil 32		
COSMO OIL CO., LTD.		Cosmo turbine 32		
Japan Energy Corporation		Kyodo turbine 32		
Kygnus Sekiyu K.K.		Turbine oil 32		
Kyushu Oil Co., Ltd.		Stork turbine 32		
Mitsubishi Oil Co., Ltd.		Mitsubishi turbine 32		
SHOWA SHELL SEKIYU K.K.		Turbine 32		
Tonen General Sekiyu K.K.		General R turbine 32		
FUJI KOSAN CO., LTD.		Fukkol turbine 32		

Please contact SMC for details about class 2 turbine oil (with additives), ISO VG32.

#### **Air Supply**

## **⚠** Warning

1. Use clean air.

Do not use compressed air that contains chemicals, synthetic oils including organic solvents, salt or corrosive gases, etc., as it can cause damage or malfunction.

#### **∧** Caution

1. Install an air filter.

Install an air filter upstream near the valve. Select an air filter with a filtration size of 5  $\mu m$  or smaller.

#### **Air Supply**

#### **∧** Caution

2. Take measures to ensure air quality, such as by installing an aftercooler, air dryer, or water separator.

Compressed air that contains a large amount of drainage can cause malfunction of pneumatic equipment such as valves. Therefore, take appropriate measures to ensure air quality, such as by providing an aftercooler, air dryer, or water separator.

If excessive carbon powder is seen, install a mist separator on the upstream side of the valve.

If excessive carbon dust is generated by the compressor, it may adhere to the inside of a valve and cause it to malfunction.

For compressed air quality, refer to SMC Best Pneumatics catalogue.

#### **Operating Environment**

#### **⚠** Warning

- 1. Do not use in an atmosphere having corrosive gases, chemicals, sea water, water, water steam, or where there is direct contact with any of these.
- 2. Do not use in explosive atmospheres.
- 3. Do not use in a place subject to heavy vibration and/or impact.

Confirm the specifications in the main section of the catalogue.

- 4. The valve should not be exposed to prolonged sunlight. Use a protective cover.
- 5. Remove any sources of excessive heat.
- 6. In locations where there is contact with spatter from water, oil, solder, etc., take suitable protective measures.
- 7. When the solenoid valve is mounted in a control panel or its energised for a long time, make sure ambient temperature is within the specification of the valve.





## NAMUR Interface Solenoid Valves Specific Product Precautions 4

Be sure to read this before handling.

#### **Maintenance**

## **△** Warning

## 1. Perform maintenance inspection according to the procedures indicated in the operation manual.

If handled improperly, malfunction and damage of machinery or equipment may occur.

## 2. Removal of equipment, and supply/exhaust of compressed air

When components are removed, first confirm that measures are in place to prevent workpieces from dropping, run-away equipment, etc. Then, cut off the supply pressure and electric power, and exhaust all compressed air from the system using the residual pressure release function. For 3 -position closed centre type, exhaust the residual pressure between the valve and the cylinder.

When the equipment is operated after remounting or replacement, first confirm that measures are in place to prevent lurching of actuators, etc. Then, confirm that the equipment is operating normally.

#### 3. Low frequency operation

Valves should be operated at least once every 30 days to prevent malfunction. (Use caution regarding the air supply.)

#### 4. Manual override

When the manual override is operated, connected equipment will be actuated. Operate after safety is confirmed.

#### **⚠** Caution

#### 1. Drain flushing

Remove drainage from the air filters regularly.

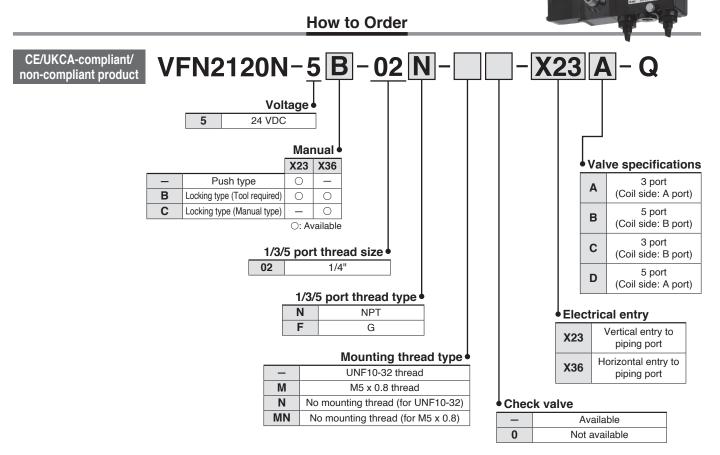
#### 2. Lubrication

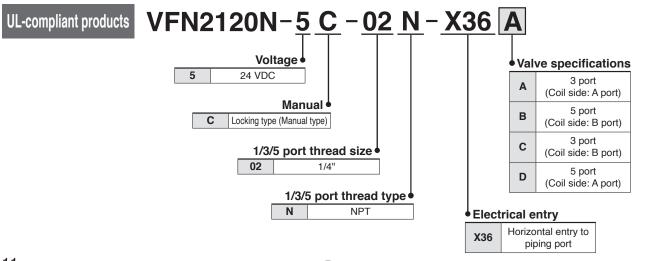
Once lubrication has been started, it must be continued. Use class 1 turbine oil (with no additive), VG 3 2 . If other lubricant oil is used, it may cause malfunction. Please contact SMC for suggested class 2 turbine oil (with additive), VG32.



# NAMUR Interface 3/5 Port Solenoid Valve CEK IP67 Compliant, Hygienic Design Type VFN2120N-X23/-X36

- Hygienic design is adopted
   Resin body with less concaves. Direct cleaning of valve is possible (IP67)
- •3 port/5 port available Function plate realised 3/5 port selectable
- Low power consumption
   Power consumption: 0.5 W
- Port threads: NPT 1/4, G 1/4 available





#### **Standard Specifications**

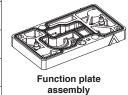
Valve construction	Rubber seal		
Fluid	Air		
Operating pressure range	0.15 to 0.9 MPa		
Ambient and fluid temperature	-10 to +60 °C		
Lubrication	Not required		
Manual override	Push type/Locking type (tool required)/ Locking type (manual type)		
Enclosure	Equivalent to IP67		
Thread port size	1/4"		
Flow-rate characteristics (Cv/Effective area)	0.8/11 mm²		
Rated voltage	24 V DC		
Allowable voltage fluctuation	-15 to +10 % of rated voltage		
Type of coil insulation	Class B		
Power consumption	0.5 W		

#### **Replacement Parts**

1)Mounting screw				
Model	Туре	Co	ntents	Ĭ
AXT842-30-19A-2	UNF10-32	With washer/A set of		
AXT842-30-19A-3	M5 x 0.8	10 screws		U
②Check valve				Mounting screw
Model	Contents			301011
AXT842-30-17A	A set of 10 pcs.			
Tunation plate accombine			Check valv	Α.

#### 3Function plate assembly\*

Model	Valve specifications
AXT842-30-10-A	3 port (Coil side: A port)
AXT842-30-10-B	5 port (Coil side: B port)
AXT842-30-10-C	3 port (Coil side: B port)
AXT842-30-10-D	5 port (Coil side: A port)

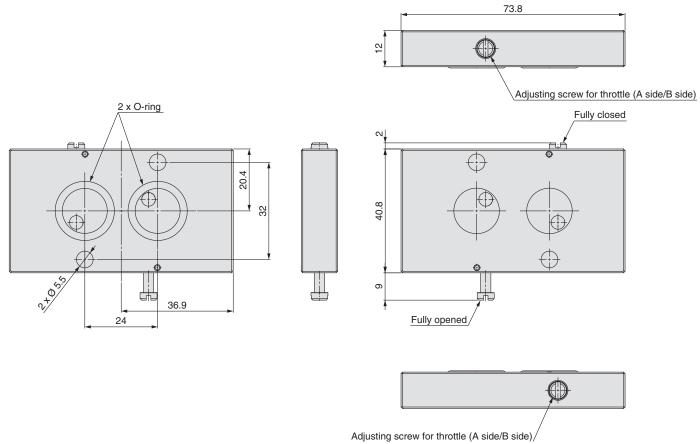


<sup>\*</sup> Valve specifications can be freely changed by changing the function plate.

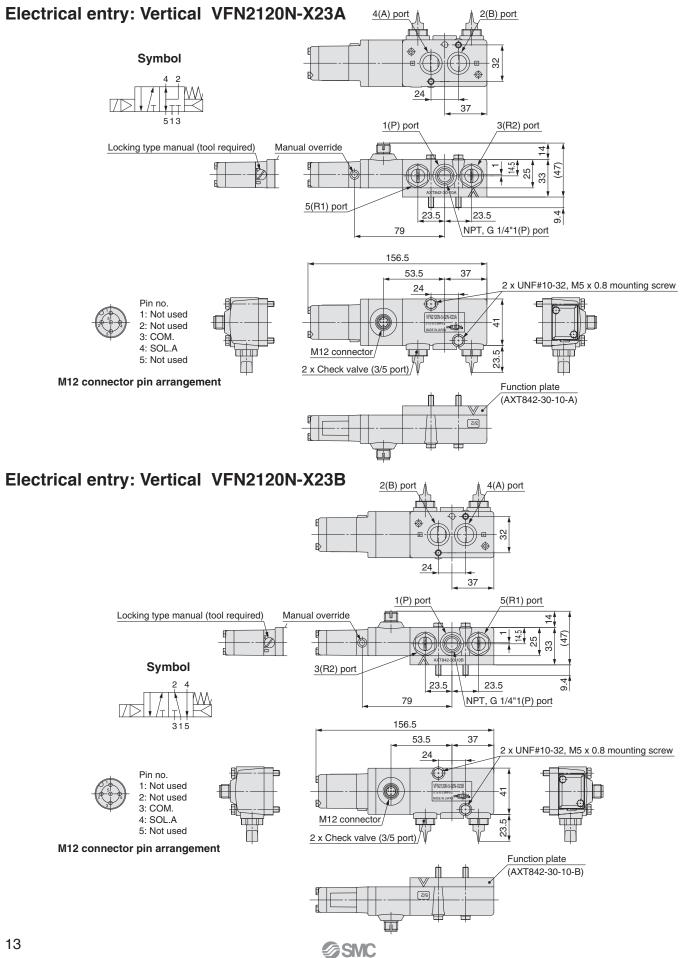
#### **Options**

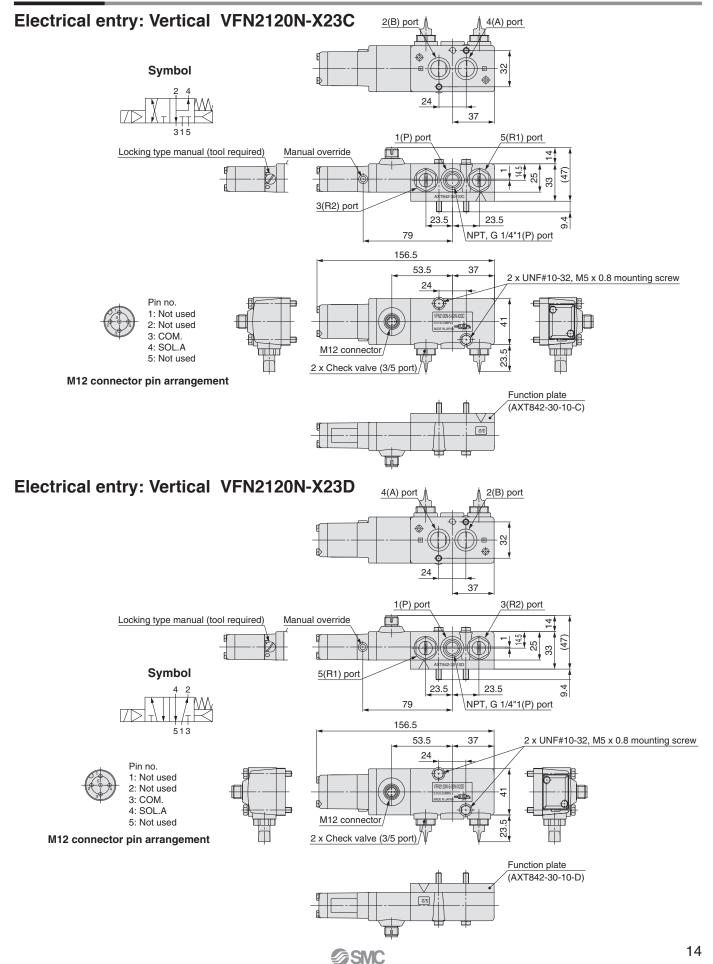
#### Throttle valve spacer

Thi other vario opasor			
Part no.	Mounting screw type	Body material	Accessories
AXT842-30-22A-1	UNF10-32	Stainless steel	
AXT842-30-22A-2	M5 x 0.8	Stairliess steel	O-ring for interface (2 pcs.) Mounting screw for spacer (2 pcs.)
AXT842-30-24A-1	UNF10-32	Aluminium	
AXT842-30-24A-2	M5 x 0.8	(Black anodised)	

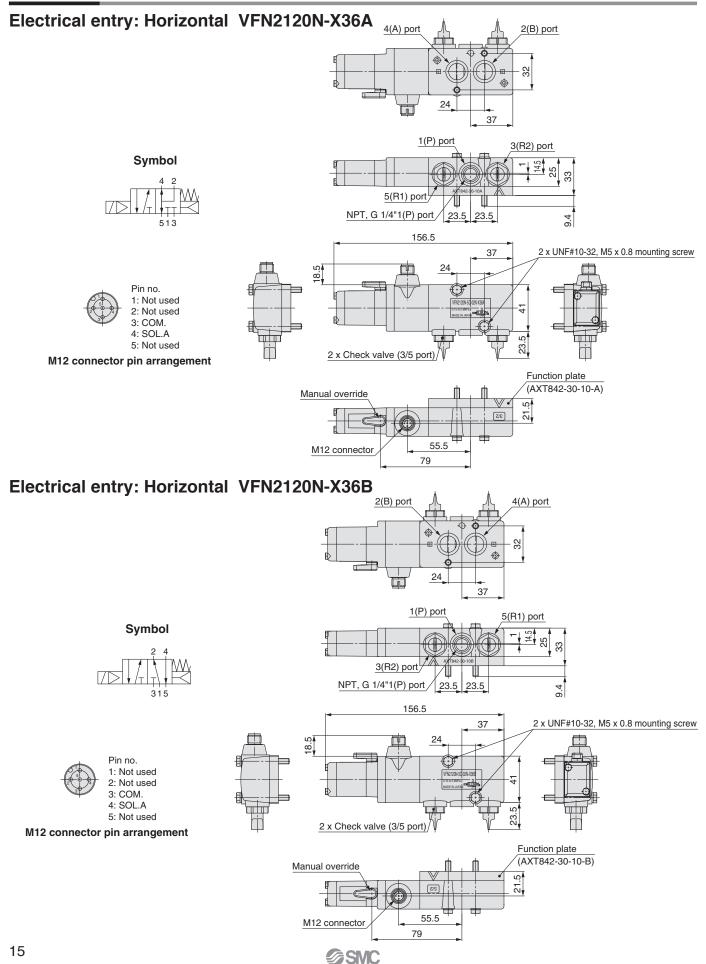


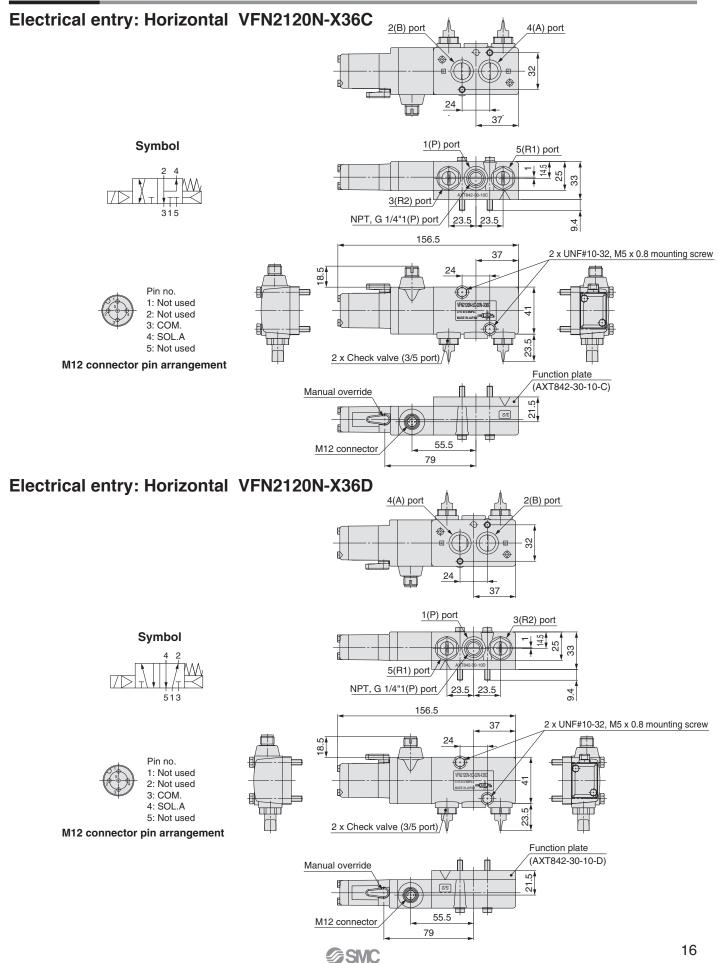
## VFN2120N-X23/-X36





## VFN2120N-X23/-X36





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These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC) 1), and other safety regulations.

Danger indicates a hazard with a high level of risk ♠ Danger: which, if not avoided, will result in death or serious

injury.

Warning indicates a hazard with a medium level of risk Marning: which, if not avoided, could result in death or serious

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate

1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

etc.

#### Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
  - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
  - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
  - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
  - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
  - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
  - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

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We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

#### Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

#### Limited warranty and **Disclaimer/Compliance** Requirements

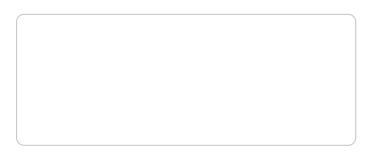
The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

#### **Limited warranty and Disclaimer**

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first. 2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited

#### **Compliance Requirements**

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.



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