

VFN Series: Conforming to NAMUR Standards



3 way (3/2) and 4 way (5/2)

-X36 Horizontal M12 Electrical Connection

VFN2120N -X36 Hygienic Type Specifications

V a	alve Specifications	Electrical Sp	ecifications
Fluid	Air	Rated Voltage	24VDC
Operating Pressure	22 to 131 psi (0.15 to 0.9 MPa)	Allowable Voltage Fluctuation	-15 to +10% of
Ambient & Fluid Temperature	14 to 140°F (-10 to 60°C)	Coil Type	Class B
Lubrication	Not required	Power Consumption	0.5 W
Manual Override	Push Type/locking Type (tool required)	Electrical Connector	Standard M12 (5-pin)
		Body Material	Resin
Enclosure		Metal Parts/Hardware	Stainless Steel
	1/4" NP1	Speed Control Kit Available	ATX842-DA000334
Flow Characteristics (CV)	0.8	How t	o Order
3-way Solenoid Valve Cor	nfiguration (for Single acting actuator)		
Right side port operation	Left side port operation	VFN2120N - 5B - 02	2 <u>N</u> -X36 <u>A</u>
		Voltage • 3 110VDC 5 24VDC Manual override • B Locking type (Tool required) C Locking type (Manual)	A 3 port port #4 on Coil sid B 5 port Port #2 on Coil sid C 3 port Port #2 on Coil sid D 5 port Port #4 on Coil sid Thread type N NPT Thread size 02 1/4"
5-way Solenoid Valve Con	figuration (for Double acting actuator)	Valve Spec	ifications
Normal function	Beverse function	Fluid	Air or inert gas
B-TYPE	D-TYPE	Working pressure range	21.8psi to 130psi (0.15 to 0.9 MPa)
		Ambient & Fluid Temperature	14°F to 140°F (-10°C to +60°C)
		Lubrication	Not required
┝┶┶╍╤╗┙╴╎╎┝┻┶╼╤╸	╷╴╷┊└┥╴╩╩┑╴╴	Pilot operator manual override	Locking type
		Enclosure	IP67
		Port size	1/4" NPT
		Cv factor	0.8
		Actuator port	NAMUR mount
		Rated voltage	24VDC & 110VAC
Solenoid is not energized Sole	enoid is energized Port Pressurized	Port exhausted	
ote : Direction of rotary actuator may be different	from the picture, it depends on the manufacturer of rotary actuator.		NC378A



NAMUR Interface 3 Port Solenoid Valve VFN200N Series

The interface surface complies with NAMUR.





Specifications

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	Fluid		Air	
	Valve type		Normally closed	
	Max. operating pressure		0.9 MPa (130 psi)	
Min. operating pressure			0.15 MPa (22 psi)	
Valve cifications	Ambient and fluid temperature		14 to 140°F (-10 to +60°C) ^{Note 1)}	
	Lubrication		Not required	
	Pilot valve manual override		Non-locking push type (Flush/Extended)/Locking type (Tool required)	
	Enclosure		Dustproof	
	Port size		1/4	
	Other		Cylinder ports should be NAMUR hole pattern.	
Coil rated voltage			12, 24 VDC, 110 to 120, 220, 240 VAC (50/60 Hz)	
	Allowable voltage fluctuation		-15 to +10% of rated voltage	
loctrical	Coil insulation type		Class B or equivalent	
cifications	Apparent power AC (Power consumption)	Inrush	5.0 VA/60 Hz, 5.6 VA/50 Hz	
		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		Conduit terminal, DIN terminal	

Note 1) Use dry-air at low temperature.

SNC Valves & Accessories for 1/4 Turn Actuation for Process Applications

NAMUR Interface 5 Port Solenoid Valve VFN2000N Series

Te. SP		Fluid		Air/Inert gas
	Valve	Max. operating pressure		0.9 MPa {130 PSI}
		Min. operating pressure		0.15 MPa {22 PSI}
		Ambient and fluid temperature		14 to 140°F (-10 to +60°C) (1)
ol		Lubrication		Not required
solenoid		Pilot operator manual override		Non-locking push type (Flush)
		Enclosure		Dustproof
		Port size		1/4
513		Other		Cylinder ports should be NAMUR hole pattern.
e solenoid	Electrical entry	Allowable voltage range		-15 to +10% of rated voltage
42		Coil insulation		Class B or equivalent
		Apparent power AC	Inrush	5.0 VA/60 Hz, 5.6 VA/50 Hz
		(Power consumption)	Holding	2.3 VA (1.5 W)/60 Hz, 3.4 VA (2.1 W)/50 Hz
		Power consumption DC		1.8 W
		Electrical entry		Conduit terminal, DIN terminal

How to Order 02 N VFN2 1 20 N 5 D Ζ Solenoid Thread type 1 Single solenoid NAMUR Interface • Nil Rc (PT) 2 Double solenoid F G (PF) NPT Ν Voltage • Manual override/Classification 3 110 to 120 VAC, 50/60 Hz Electrical entry Nil Non-locking push type (Flush) 4 220 VAC, 50/60 Hz Conduit terminal A Non-locking push type (Extended) т 5 24 VDC DIN terminal В Locking type (Tool required) D 6 12 VDC 7 240 VAC, 50/60 Hz **DIN** terminal DO Light/Surge voltage suppressor (Without connector) Note) Hazardous location solenoid Nil None enclosure available upon Z With light/surge voltage suppressor request (Consult sales)

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Component Parts

No.	Description	Material	Note
1	Valve	Aluminum alloy	Silver baking finish
2	Cover	Aluminum alloy	Silver baking finish
3	Throttle valve	Stainless steel	
4	Inner valve	Stainless steel	
5	Diaphragm assembly	Aluminum alloy/NBR/Resin	Chromated
6	Diaphragm	NBR	
7	Valve spring	Stainless steel	
8	O-ring	NBR	
9	O-ring	NBR	

SNC Valves & Accessories for 1/4 Turn Actuation for Process Applications

Lock-Up Valve IL201/211/220 Series

Single acting, Double acting: Retains pressure at the operating area as emergency operation until the air source is recovered to its normal state. 3 Port: Changes the supply port if a trouble occurs.



Standard Specifications

Model	IL201 IL211 IL220			
Action	Single acting Double acting		3 Port	
Signal pressure	Max. 145 psi (1.0 MPa) Note 1)			
Set pressure range	21 to 101.5 psi (0.14 to 0.7 MPa) ^{Note 1)}			
Shut-off pressure	Max. 101.5 psi (0.7 MPa)			
Ambient and fluid temperature	23 to 140°F (-5 to 60°C)			
Differential Note 2)	1.45 psi (0.01 MPa)			
Weight	15.9 oz (450 g) 22.6 oz (640 g) 24.7 oz (700 g)		24.7 oz (700 g)	

Note 1) Provide a differential pressure of 0.1 MPa or more between the signal pressure and set pressure.

If the differential pressure is small, the internal part is worn out due to the structure of this product and the bleed amount from the exhaust port increases, which may affect the characteristics.

lote 2) Pressure difference between lock activated and lock released





Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Silver baking finish
2	Pilot body	Aluminum alloy	Silver baking finish
3	Bonnet	Aluminum alloy	Silver baking finish
4	Adjusting screw	Stainless steel	
5	Piston	Brass	
6	Piston rod	Brass	
7	Diaphragm assembly	Aluminum alloy/Brass/NBR	Chromated
8	Diaphragm	NBR	
9	Piston valve	Brass/NBR	
10	Piston valve	Brass/NBR	
11	Valve	Brass/NBR	
12	Adjusting spring	Steel wire	Zinc chromated
13	Valve spring	Stainless steel	
14	Valve spring	Stainless steel	
15	Piston spring	Stainless steel	
16	O-ring	NBR	
17	O-ring	NBR	
18	O-ring	NBR	
19	O-ring	NBR	
20	O-ring	NBR	
21	O-ring	NBR	
22	O-ring	NBR	

SNC Valves & Asscesories for 1/4 Turn Actuation for Process Applications

Filter Regulator AW30/40-X2622

- External parts material: Stainless steel 316
- Ambient and fluid temperature: -40 to 176°F (-40 to 80°C)
- NACE International Standards compliant

The JIS component standards of the external parts and the component measurement results of the certificate for materials are within the ANSI/NACE standards.

How to Order AW 30 - N 03 Option/Semi-standard: Select one each for 2 X2622 a to d. Option/Semi-standard symbol: When more 3 (4) (5) 6 than one specification is required, indicate in alphanumeric order. Stainless steel 316 specification Example) AW30-03C-2R-X2622A (1) Symbol Description Body size 30 40 Nil Rc 2 NPT Thread type Ν F G 1/4 02 03 3/8 3 Port size 04 1/2 06 3/4 + Nil Without option Option Float type 4 а auto drain C Note 1) Float type auto drain (N.C.) + 2 Note 2) Bowl Metal bowl b + (5) Semi-standard Nil Flow direction: Left to right С Flow direction Flow direction: Right to left R + Nil Without option Pressure Round type pressure gauge (without limit indicator) Option • Α • gauge Note 3) 6 d В With bracket Bracket С Round type pressure gauge (without limit indicator), With bracket

Note 1) When the float type auto drain is selected, the fluid temperature range is 23 to 140°F (-5 to 60°C)(no freezing), and the maximum operating pressure is 145 psi (1.0 MPa). Take measures if the fluid temperature is likely to be out of the specified range due to the ambient temperature. Note 2) Only metal bowl is available.

Note 3) The pressure gauge is shipped together, but not assembled. AW30: G43-10-□01-X3 or AW40: G43-10-□02-X3 is included.

Specifications

Fluid	Air
Ambient and fluid temperature	-40 to 176°F (-40 to 80°C)(no freezing)
Proof pressure	435 psi (3.0 MPa)
Maximum operating pressure	290 psi (2.0 MPa)
Set pressure range	7.2 to 123 psi (0.05 to 0.85 MPa)
Nominal filtration rating	5 μm
Drain capacity (cm ³)	AW30: 20, AW40: 80
Construction	Relieving type
Woight	AW30: 42 oz (1.19 kg),
weight	AW40: 12 oz (3.40 kg)

Applicable Model

Model	AW30	AW40
Port size	1/4, 3/8	1/4, 3/8, 1/2, 3/4



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