

Process Valve

Series VNA

2 Port Valve For Compressed Air and Air-hydro Circuit Control

Exclusively for air pressure system and air-hydro circuit control

Universal 2 Port Valve

Cylinder actuation by external pilot air

The balance poppet permits normal and reverse flow.

Operation from 0 MPa is possible.

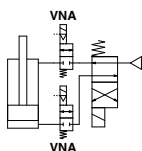
Wide variations

N.C., N.O., C.O. types are available. Threaded type from 6A to 50A is standardized.

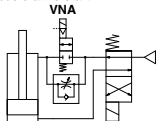


Compressed Air Air pressure circuit: Application examples

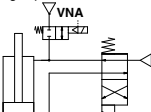
Actuator stop valve
Intermediate stop, inching



Actuator skip valve
Terminal deceleration, intermediate deceleration, accelerative start



Actuator exhaust valve
High speed operation, high speed exhaust



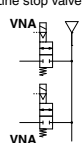
Air motor driving valve



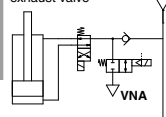
Air blow valve



Line stop valve

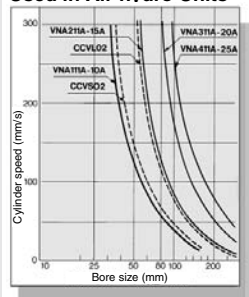


Residual line pressure exhaust valve



Air-hydro Air pressure circuit: Application examples

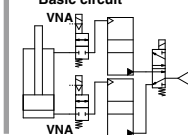
Operation Capacity When Used in Air-hydro Units



This series can supplement the capacity of conventional air-hydro valve units. They are suited to operate large bore cylinders as well as to simultaneously operate multiple cylinders and suspend their operation. Thus they can be used in the same way as the conventional air-hydro units.

Air-hydro circuit: Application example

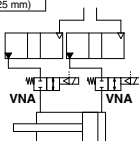
Basic circuit



Conditions

| | | |
|-----------------|-----------------|--------------|
| Supply pressure | 0.49 MPa | |
| Hydraulic fluid | ISO VG32 | |
| Load | No load | |
| Piping length | 1 m | |
| Piping diameter | VNA111A, CCVS02 | 3/8B (9 mm) |
| | VNA211A, CCVL02 | 1/2B (13 mm) |
| | VNA311A | 3/4B (19 mm) |
| | VNA411A | 1B (25 mm) |

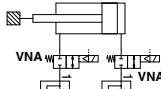
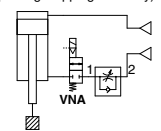
Refer to Air-hydro Unit pages in "Best Pneumatics No. 2 (Series CC)" for further information on air-hydro.



Caution

When speed controller is mounted

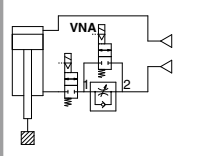
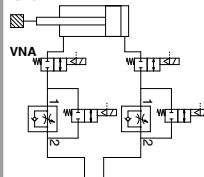
Connect a speed controller (Series AS etc.) to A port of VNA□11 (in order to protect the speed control valve from surges when cylinder operation is suspended, thus improving stopping accuracy).



Caution

Skip valve function

Combination of 2 or more valves of Series VNA provides a skip valve function. Connect the skip valve to the A port side of a stop valve.



Process Valve: 2 Port Valve

For Compressed Air and Air-hydro Circuit Control

Series VNA



[Option]
 (Note) CE-compliant: For D or DZ only

How to Order

Seal material

| | |
|---|-----------|
| A | NBR seals |
| B | FKM seals |
| C | EPR seals |

Refer to "Table (1)" for availability.

Thread type

| | |
|-----|------|
| Nil | Rc |
| F | G |
| N | NPT |
| T | NPTF |

Bracket (Valve size: 1/2/3/4.)

| | |
|----------|--------------|
| Nil | None |
| B (Note) | With bracket |

(Note) Only valve sizes 1, 2, 3 and 4.
 Shipped after assembled at our factory.
 Bracket part no.
 Valve size 1: VN1-A16 (with thread)
 Valve sizes 2 to 4: VN□-16

Air operated VNA 2 0 1 A - □ 15A - □

External pilot solenoid VNA 2 1 1 A - □ 15A - 1 T □ - □ - □

Valve size **Valve type** **Port size** **Rated voltage**

| Symbol | Orifice dia. (mm) | Symbol | | | Symbol | Port size Rc | Rated voltage |
|--------|-------------------|--------|------|----------|--------|--------------|--|
| | | 1 | 2 | 3 (Note) | | | |
| | | N.C. | N.O. | C.O. | | | 1 100 VAC 50/60 Hz |
| 1 | ø10 | ● | ● | ● | 6A | 1/8 | 2 200 VAC 50/60 Hz |
| | | ● | ● | ● | 8A | 1/4 | 3 (Note 2) 110 VAC 50/60 Hz |
| | | ● | ● | ● | 10A | 3/8 | 4 (Note 2) 220 VAC 50/60 Hz |
| 2 | ø15 | ● | ● | ● | 10A | 3/8 | 5 24 VDC |
| | | ● | ● | ● | 15A | 1/2 | 6 (Note 2) 12 VDC |
| | | ● | ● | ● | 20A | 3/4 | 7 (Note 2) 240 VAC 50/60 Hz |
| 3 | ø20 | ● | ● | ● | 15A | 1/2 | Note 1) CE-compliant: For D or DZ only |
| 4 | ø25 | ● | ● | ● | 25A | 1 | Note 2) Semi-standard |
| 5 | ø32 | ● | ● | ● | 32A | 1 1/4 | Note 3) For other rated voltages, please consult with SMC. |
| 6 | ø40 | ● | ● | ● | 40A | 1 1/2 | |
| 7 | ø50 | ● | ● | ● | 50A | 2 | |

CE-compliant

| | |
|-----|--------------|
| Nil | — |
| Q | CE-compliant |

(Note) CE-compliant: For D or DZ only

Manual override

| | |
|---|--------------------------|
| <p>Nil: Non-locking push type</p> <p>A: Non-locking push type A (projecting)</p> <p>B: Slotted locking type B (tool required)</p> | <p>Valve size 1 to 4</p> |
| <p>Nil: Non-locking push type</p> <p>(Note) Semi-standard</p> | <p>Valve size 5 to 7</p> |

(Note) Air operated only

Table (1) Applicable Fluids

| Model | VNA□□□A (Valve material: NBR seal) | VNA□□□B (Valve material: FKM seal) | VNA□□□C (Valve material: EPR seal) |
|-------|--|---|---|
| Fluid | Air (Standard, Dry) Carbon dioxide (CO ₂) (Less than 0.7 MPa) Nitrogen gas (N ₂) Turbine oil (kinematic viscosity ≤ 100 mm ² /s) Hydraulic fluid (≤ 100 mm ² /s) | Argon Helium Turbine oil (kinematic viscosity ≤ 100 mm ² /s) Hydraulic fluid (≤ 100 mm ² /s) | Carbon dioxide (CO ₂) (0.7 MPa or more) |

⚠ Caution

This product cannot be used for water application.

Electrical entry/With light/surge voltage suppressor

| Symbol | Electrical entry | Valve size 1 to 4 | Valve size 5 to 7 |
|--------|--|-------------------|-------------------|
| G | Grommet | ● | ● |
| GS | Grommet with surge voltage suppressor | ● | ● |
| E | Grommet terminal | ● | ● |
| EZ | Grommet terminal with light/surge voltage suppressor | ● | ● |
| T | Conduit terminal | ● | ● |
| TZ | Conduit terminal with light/surge voltage suppressor | ● | ● |
| D | DIN terminal | ● | ● |
| DZ | DIN terminal with light/surge voltage suppressor | ● | ● |

CE-compliant

| Symbol | Electrical entry | Valve size 1 to 4 | Valve size 5 to 7 |
|--------|--|-------------------|-------------------|
| D | DIN terminal | ● | ● |
| DZ | DIN terminal with light/surge voltage suppressor | ● | ● |

Series VNA

Model

| Model | Port size Rc | Orifice diameter ø (mm) | Flow characteristics | | | | Weight (kg) | |
|-------------|--------------|-------------------------|----------------------------------|------|------------------------------------|--------------------------------------|--------------|-------------------------|
| | | | Measured by air | | Measured by water ^{Note)} | | Air operated | External pilot solenoid |
| | | | C [dm ³ / (bar·sec)] | b | Cv | Av x 10 ⁻⁶ m ² | | |
| VNA1□□□-6A | 1/8 | 10 | 3.5 | 0.35 | 0.88 | 25 | 0.1 | 0.2 |
| VNA1□□□-8A | 1/4 | | 5.9 | 0.24 | 1.5 | 41 | | |
| VNA1□□□-10A | 3/8 | | 7.9 | 0.16 | 1.9 | 51 | | |
| VNA2□□□-10A | 3/8 | 15 | 16 | 0.35 | 3.8 | 110 | 0.3 | 0.4 |
| VNA2□□□-15A | 1/2 | | 23 | 0.25 | 4.8 | 130 | | |
| VNA3□□□-20A | 3/4 | 20 | 34 | 0.16 | 7.5 | 210 | 0.5 | 0.6 |

Note) This product cannot be used for water application.

| Model | Port size Rc | Orifice diameter ø (mm) | Flow characteristics | | Weight (kg) | |
|-------------|--------------|-------------------------|----------------------|----------------------------------|--------------|-------------------------|
| | | | Cv | Effective area (mm) ² | Air operated | External pilot solenoid |
| VNA4□□□-25A | 1 | 25 | 12 | 220 | 0.8 | 0.9 |
| VNA5□□□-32A | 1 1/4 | 32 | 18 | 320 | 1.3 | 1.4 |
| VNA6□□□-40A | 1 1/2 | 40 | 28 | 500 | 2.1 | 2.2 |
| VNA7□□□-50A | 2 | 50 | 43 | 770 | 3.1 | 3.2 |



External pilot solenoid

Air operated

Specifications

| | | | |
|---------------------------------|-----------------------|---|--|
| Fluid (Main piping) | | Refer to "Table (1)" on page 469. | |
| Fluid temperature | VNA□□□ A | -5 to 60°C ^{Note 1)} | |
| | VNA□□□ B | -5 to 99°C ^{Note 1)} | |
| | □□□ C | (Air operated type only) | |
| Ambient temperature | | -5 to 50°C ^{Note 1)} (Air operated type: 60°C) | |
| Proof pressure | | 1.5 MPa | |
| Operating pressure range | | 0 to 1 MPa | |
| External pilot air | Pressure range | 0.2 to 0.7 MPa | |
| | Lubrication | Not required (Use turbine oil Class 1 ISO VG32, if lubricated. ^{Note 2)}) | |
| | Temperature | -5 to 50°C ^{Note 1)} (Air operated type: 60°C) | |
| Mounting orientation | | Unrestricted ^{Note 3)} | |

Note 1) No freezing

Note 2) Lubrication is not allowed for use with EPR seal material.

Note 3) For external pilot solenoid, it is recommended that the pilot solenoid valve be oriented either vertically upward or horizontally.

Pilot Solenoid Valve Specifications

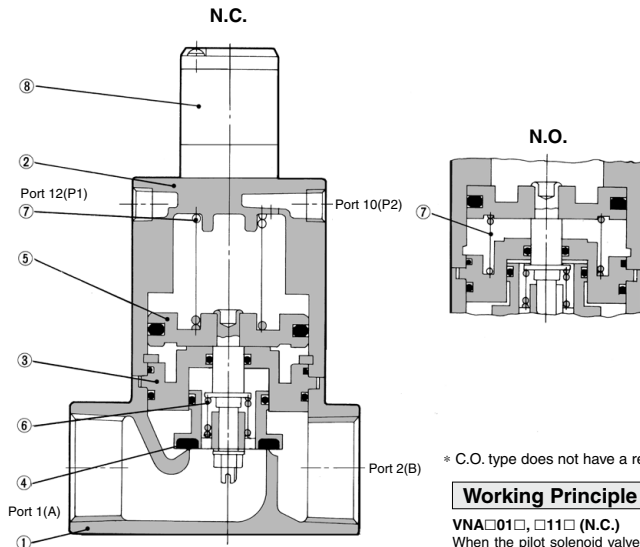
| Port size | 6A to 25A | 32A to 50A |
|--------------------------------------|---|--|
| Pilot solenoid valve | SF4-□□□-23 SF4-□□□-23-Q | VO307-□□□1 VO307-□□□-Q |
| Electrical entry | Grommet, Grommet terminal Conduit terminal DIN terminal | Grommet, DIN terminal |
| Coil rated voltage (V) | AC (50/60 Hz) 100 V, 200 V, Other voltage (Semi-standard) DC 24 V, Other voltage (Semi-standard) | |
| Allowable voltage fluctuation | -15% to +10% of rated voltage | |
| Temperature rise | 35°C or less (When rated voltage is applied.) 50°C or less (When rated voltage is applied.) | |
| Apparent power | AC Inrush 5.6 VA (50 Hz), 5.0 VA (60 Hz) Holding 3.4 VA (50 Hz), 2.3 VA (60 Hz) | 12.7 VA (50 Hz), 10.7 VA (60 Hz) 7.6 VA (50 Hz), 5.4 VA (60 Hz) |
| Power consumption | DC 1.8 W (without light), 2 W (with light) 4 W (without light), 4.2 W (with light) | |
| Manual override | Non-locking push type Other (Semi-standard) Non-locking push type | |

Note) For "How to Order" pilot solenoid valves, refer to page 474.

Symbol

| Style | Valve type | N.C. | N.O. | C.O. |
|--------------|------------|-----------------|---------------|---------------|
| | | Normally closed | Normally open | Double acting |
| Air operated | | VNA□01 | VNA□02 | VNA□03 |
| | | | VNA□12 | |

Construction



* C.O. type does not have a return spring (7).

Working Principle

VNA□01□, □11□ (N.C.)

When the pilot solenoid valve (8) is not energized (or when air is exhausted from the port 12(P1) of the air operated style), the valve element (4) linked to the piston (5) is closed by the return spring (7).

● When valve element opens

When the pilot solenoid valve is energized (or when pressurized air enters through the port 12(P1) of the air operated style), the pilot air that has entered under the piston moves upward to open the valve element.

● When valve element closes

When the power to the pilot solenoid valve is turned off (or when fluid is exhausted from the port 12(P1) of the air operated style), the pilot air under the piston is exhausted, and the return spring closes the valve element.

VNA□02□, □12□ (N.C.)

In contrast with the N.C., when the power to the pilot solenoid valve is turned off (or when air is exhausted from the port 10(P2) of the air operated style), the valve is held open by the return spring. When the pilot solenoid valve is energized (or when pressurized air enters through the port 10(P2) of the air operated style), the valve element closes.

VNA□03□ (C.O.)

The valve element of the C.O. type, which has no return spring, is in an arbitrary position when air is exhausted through the ports 12(P1) and 10(P2). When pressurized air enters the port 12(P1) (exhaust from the port 10(P2)), the valve element opens, and it closes when pressurized air enters the port 10(P2) (exhaust from the port 12(P1)).

Component Parts

| No. | Description | Material | Note |
|----------|----------------------|-----------------|-------------------------------|
| 1 | Body | Aluminum alloy | Platinum silver painted |
| 2 | Cover assembly | Aluminum alloy | Platinum silver painted |
| 3 (Note) | Plate assembly | Aluminum alloy | Seal material (NBR, FKM, EPR) |
| 4 (Note) | Valve element | Aluminum alloy | Seal material (NBR, FKM, EPR) |
| 5 | Piston assembly | Aluminum alloy | — |
| 6 | Travel spring | Stainless steel | — |
| 7 | Return spring | Piano wire | — |
| 8 | Pilot solenoid valve | — | — |

(Note) Parts (3) and (4) are for selection of valve composition.

Replacement Parts

| No. | Description | | Part no. | | | | | | | |
|-----|---|---------------|---|----------------------|-----------------|-----------------|---|-----------------|-----------------|----------|
| | | | VNA1□□A -6A, 8A, 10A | VNA2□□□ -10A, 15A | VNA3□□□ -20A | VNA4□□□ -25A | VNA5□□□ -32A | VNA6□□□ -40A | VNA7□□□ -50A | |
| 3 | Plate assembly | Seal material | NBR | VN1-A3AA | VN2-A3AA | VN3-A3AA | VN4-A3AA | VN5-A3AA | VN6-A3AA | VN7-A3AA |
| | | FKM | VN1-A3AB | VN2-A3AB | VN3-A3AB | VN4-A3AB | VN5-A3AB | VN6-A3AB | VN7-A3AB | |
| | | EPR | VN1-A3AC | VN2-A3AC | VN3-A3AC | VN4-A3AC | VN5-A3AC | VN6-A3AC | VN7-A3AC | |
| 4 | Valve disc (Valve disc assembly for 25A-50A) | Seal material | NBR | VN1-4AA | VN2-4AA | VN3-4AA | VN4-4AA | VN5-4AA | VN6-4AA | VN7-4AA |
| | | FKM | VN1-4AB | VN2-4AB | VN3-4AB | VN4-4AB | VN5-4AB | VN6-4AB | VN7-4AB | |
| | | EPR | VN1-4AC | VN2-4AC | VN3-4AC | VN4-4AC | VN5-4AC | VN6-4AC | VN7-4AC | |
| 8 | Pilot solenoid valve | | SF4-□□□-23 (Refer to page 474 for details.) | | | | VO307-□□□1 (Refer to page 474 for details.) | | | |

VNA

VNB

SGC

SGH

VNC

VNH

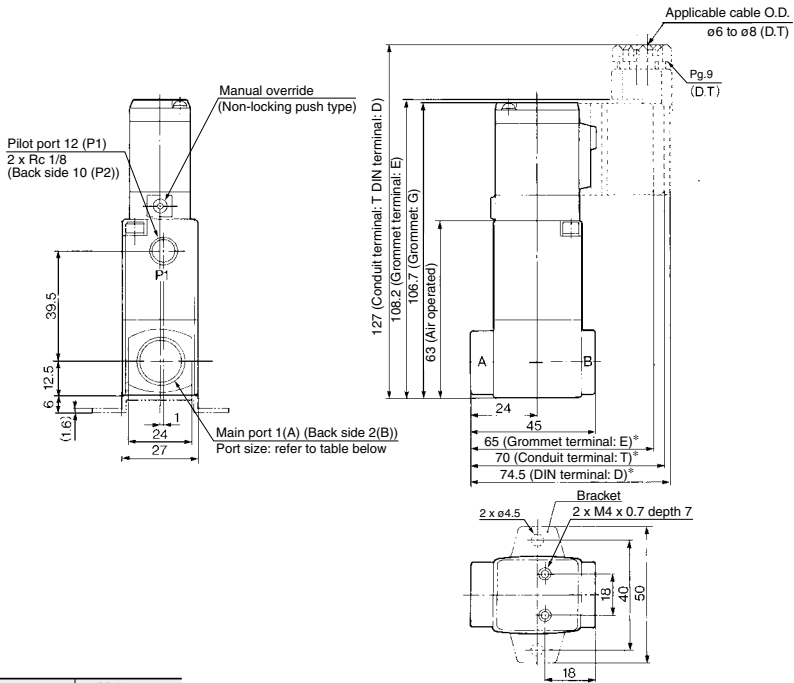
VND

VCC

TQ

Series VNA

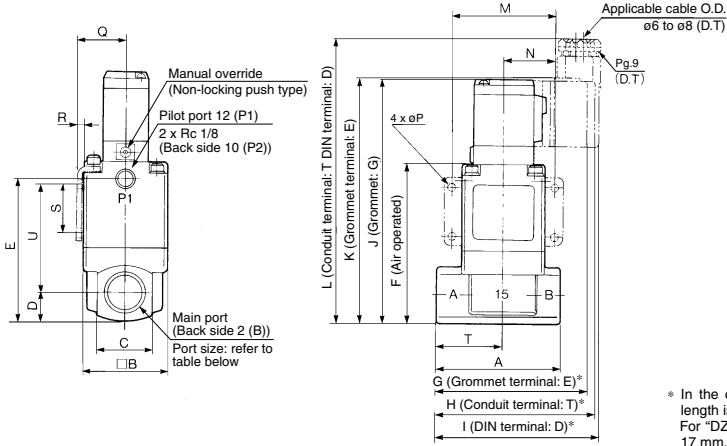
Port size: 6A, 8A, 10A



| Model | Main port 1(A), 2(B) |
|-------------|-------------------------|
| VNA1□□□-6A | 1/8 |
| VNA1□□□-8A | 1/4 |
| VNA1□□□-10A | 3/8 |

* In the case of "EZ" or "TZ", the length is longer by 10 mm. For "DZ", the length is longer by 17 mm.

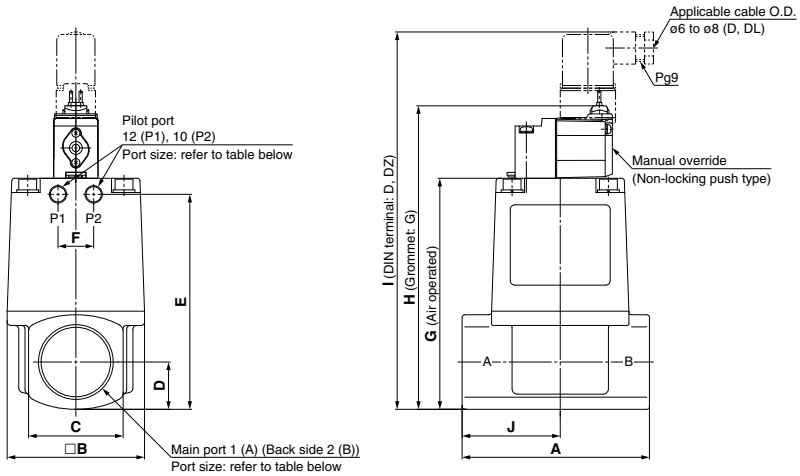
Port size: 10A, 15A, 20A, 25A



* In the case of "EZ" or "TZ", the length is longer by 10 mm.
For "DZ", the length is longer by 17 mm.

| Model | Main port 1(A), 2(B) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | P | Q | R | S | T | U |
|-------------|----------------------|----|----|----|------|------|------|----|----|------|-------|-------|-------|----|----|-----|------|-----|----|----|------|
| VNA2□□□-10A | 3/8 | 63 | 42 | 28 | 14 | 72.5 | 80.5 | 75 | 80 | 84.5 | 124 | 125.5 | 144.5 | 52 | 26 | 4.5 | 24.3 | 2.3 | 25 | 34 | 55 |
| VNA2□□□-15A | 1/2 | 80 | 50 | 35 | 17.5 | 84 | 92 | 84 | 89 | 93.5 | 135.5 | 137 | 156 | 62 | 31 | 5.5 | 28.3 | 2.3 | 30 | 43 | 60.5 |
| VNA3□□□-20A | 3/4 | 90 | 60 | 40 | 20 | 100 | 108 | 90 | 95 | 99.5 | 151.5 | 153 | 172 | 72 | 36 | 6.5 | 33.3 | 2.3 | 35 | 49 | 73 |
| VNA4□□□-25A | 1 | 90 | 60 | 40 | 20 | 100 | 108 | 90 | 95 | 99.5 | 151.5 | 153 | 172 | 72 | 36 | 6.5 | 33.3 | 2.3 | 35 | 49 | 73 |

Port size: 32A, 40A, 50A



| Model | Main port 1(A), 2(B) | Pilot port 12(P1), 10(P2) | A | B | C | D | E | F | G | H | I | J |
|-------------|----------------------|---------------------------|-----|-----|----|------|-------|----|-------|-------|-------|----|
| VNA5□□□-32A | 1 1/4 | 1/8 | 105 | 77 | 53 | 26.5 | 120.5 | 20 | 129.5 | 170.1 | 211.5 | 55 |
| VNA6□□□-40A | 1 1/2 | 1/4 | 120 | 96 | 60 | 30 | 137 | 24 | 147 | 187.6 | 229 | 63 |
| VNA7□□□-50A | 2 | 1/4 | 140 | 113 | 74 | 37 | 160 | 24 | 170 | 210.6 | 252 | 74 |

- VNA
- VNB
- SGC
- SGH
- VNC
- VNH
- VND
- VCC
- TQ

Series VNA

How to Order Pilot Solenoid Valves

Valve size 1/2/3/4

SF4 - 5 D □ - 23 - Q

SF4 - 5 D □ - 23

CE-compliant
Note) Electrical entry:
D or DZ only

Coil rated voltage

| | |
|--------------------------|------------------|
| 1 | 100 VAC 50/60 Hz |
| 2 | 200 VAC 50/60 Hz |
| 3 <small>Note 1)</small> | 110 VAC 50/60 Hz |
| 4 <small>Note 1)</small> | 220 VAC 50/60 Hz |
| 5 | 24 VDC |
| 6 <small>Note 1)</small> | 12 VDC |
| 7 <small>Note 1)</small> | 240 VAC 50/60 Hz |

Note 1) Semi-standard

Note 2) For other rated voltages, please consult with SMC.

Manual override

| | |
|-----|--|
| Nil | Non-locking push type |
| A* | Non-locking push type A (projecting) |
| B* | Slotted locking type B (tool required) |

* Semi-standard

Electrical entry/

With light/surge voltage suppressor

| | | CE-compliant |
|----|--|--------------|
| G | Grommet | — |
| GS | Grommet with surge voltage suppressor | — |
| E | Grommet terminal | — |
| EZ | Grommet terminal with light/surge voltage suppressor | — |
| T | Conduit terminal | — |
| TZ | Conduit terminal with light/surge voltage suppressor | — |
| D | DIN terminal | ● |
| DZ | DIN terminal with light/surge voltage suppressor | ● |

Valve size 5/6/7

VO307 - 5 D 1 - Q

CE-compliant
Note) Electrical entry:
D or DZ only

Coil rated voltage

| | |
|--------------------------|------------------|
| 1 | 100 VAC 50/60 Hz |
| 2 | 200 VAC 50/60 Hz |
| 3 <small>Note 1)</small> | 110 VAC 50/60 Hz |
| 4 <small>Note 1)</small> | 220 VAC 50/60 Hz |
| 5 | 24 VDC |
| 6 <small>Note 1)</small> | 12 VDC |
| 7 <small>Note 1)</small> | 240 VAC 50/60 Hz |

Note 1) Semi-standard

Note 2) For other rated voltages, please consult with SMC.

Electrical entry

| | | CE-compliant |
|----|--|--------------|
| G | Grommet | — |
| GS | Grommet with surge voltage suppressor | — |
| D | DIN terminal | ● |
| DZ | DIN terminal with light/surge voltage suppressor | ● |

Accessory

Function plate for VO307 (D seal, with screw): DXT152-14-1A



Series VNA Specific Product Precautions

Be sure to read before handling. Refer to front matter 41 for Safety Instructions, and pages 17 to 19 for 2 Port Solenoid Valves for Fluid Control Precautions.

Design

⚠ Warning

Extended periods of continuous energization

If a valve is continuously energized for long periods, heat generation of the coil may result in reduced performance and shorter service life. This may also have an adverse effect on the peripheral equipment in proximity. Should a valve be continuously energized for long periods, or its daily energized state exceeds its non energized state, please use an energy saving type AC, energizing for long periods of time continuously, select the air-operated valve and use the continuous duty type of the VT307 for a pilot valve.

Mounting

⚠ Warning

1. Do not apply external force to the coil section.

When tightening is performed, apply a wrench or other tool to the outside of the piping connection parts.

2. Do not warm the coil assembly with a heat insulator, etc.

Use tape, heaters, etc., for freeze prevention on the piping and body only. They can cause the coil to burn out.

3. Avoid sources of vibration, or adjust the arm from the body to the minimum length so that resonance will not occur.

Piping

⚠ 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. Confirm the connections.

After completing the wiring, confirm that the connections are correct.

External Pilot

⚠ Caution

Pilot port piping

12(P1) and 10(P2) piping should be as follows according to the model.

| Port | VNA□01□ | VNA□02□ | VNA□03□ | VNA□1 ₂ □ |
|---------|----------------|----------------|--------------------|----------------------|
| 12 (P1) | External pilot | Bleed port | External pilot (※) | External pilot |
| 10 (P2) | Bleed port | External pilot | External pilot (※) | Pilot exhaust |

(※) If the pilot air is not supplied, the valve position will not be held. Pressurize Port 12 (P1) or Port 10 (P2) when using the product.

Installing a silencer to the exhaust port and the bleed port is recommended for noise reduction and for dust entry prevention.

Piping

⚠ Warning

When high temperature fluids are used, use fittings and tubing with heat resistant features. (Self-align fittings, PTFE tubing, Copper tubing, etc.)

Mounting Direction of Pilot Solenoid Valve

⚠ Warning

With external pilot solenoids, the pilot solenoid valves are not splash proof specifications, and so care must be taken not to get fluid on oneself such as when performing maintenance.

⚠ Caution

Direction of mounting

When replacing a valve, if an external pilot solenoid valve is mounted in the wrong direction, it may malfunction or leak air.

Use with Air-hydro Unit

⚠ Warning

1. Piping

Surge pressure is generated between the cylinder and the VNA during intermediate stoppage. To directly thread in the cylinder, use durable fittings (Stainless steel square nipples etc.) instead of ductile iron fittings (JIS B 2301) or steel pipe fittings (JIS B 2302). When VNA is installed away from the cylinder, use a high-pressure rubber hose (JIS B 6349) instead of steel pipe, when possible.

2. Air bleeding

Series VNA valves have no air bleeding port. Bleed air comes from the middle piping. Bleeding by a vacuum pump is more effective.

3. Hydraulic fluid

Turbine oil, Grade 1 ISO VG32, with petroleum hydraulic fluid is recommended.

4. Speed control valve

The combination shown in the following table is recommended for best performance of the Series VNA. (Piping: JIS K 6349 high pressure hose)

Combination between Series-VNA and Speed controller (Series AS)

| | VNA | AS | Piping (I.D.) |
|------------|--------|----------|----------------|
| 10A | VNA111 | AS420-03 | 3/8B (ø9.5) |
| 15A | VNA211 | AS420-04 | 1/2B (ø12.7) |
| 20A | VNA311 | AS500-06 | 3/4B (ø19.1) |
| 25A | VNA411 | AS600-10 | 1B (ø25.4) |
| 32A | VNA511 | AS800-12 | 1 1/4B (ø31.8) |
| 40A | VNA611 | AS900-14 | 1 1/2B (ø38.1) |
| 50A | VNA711 | AS900-20 | 2B (ø50.8) |

For details about speed control valve (Series AS), refer to Best Pneumatics No. 6.

VNA

VNB

SGC

SGH

VNC

VNH

VND

VCC

TQ