# Process Valve: 2 Port Valve For Flow Control

# Series VNB

[Option]
* Electrical entry: D or DZ only.

## How to Order

### Seal material

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

Refer to Table (1) for availability.

### Body material option

| | |
|---|---|
| Nil | Standard |
| S* | Stainless steel body |
| L* | Aluminum body |

* Threaded port only

### Pilot system option

| | |
|---|---|
| Nil | Standard |
| V | Vacuum pilot type |

Note) Symbol V is for vacuum pilot valve specification, for both main pressure and pilot pressure, valve size 2 to 7.

### 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
└2 to 4

**Air operated** VNB 2 0 1 A □ □ – □ 15A – □

**External pilot solenoid** VNB 2 1 1 A □ □ – □ 15A – 1 T □ – □ – □

### CE compliant

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

* Electrical entry: D or DZ only

### Valve size / Valve type / Port size

| Symbol | Orifice dia. (mm) | Symbol 1 N.C. 0.5 MPa | Symbol 2 N.O. 1 MPa | Symbol 3 Note 1) C.O. 1 MPa | Symbol 4 N.C. 1 MPa | Symbol | Port size Rc |
|---|---|---|---|---|---|---|---|
| 1 | ø7 | — | ● | ● | ● | 6A | 1/8 |
| | | — | ● | ● | ● | 8A | 1/4 |
| | | — | ● | ● | ● | 10A | 3/8 |
| 2 | ø11 | — | — | — | ● | 10A | 3/8 |
| | ø15 | ● | ● | ● | — | | |
| | ø11 | — | — | — | ● | 15A | 1/2 |
| | ø15 | ● | ● | ● | — | | |
| 3 | ø14 | — | — | — | ● | 20A | 3/4 |
| | ø20 | ● | ● | ● | — | | |
| 4 | ø16 | — | — | — | ● | 25A | 1 |
| | ø25 | ● | ● | ● | — | | |
| 5 | ø22 | — | — | — | ● | 32A | 1 1/4 |
| | ø32 | ● | ● | ● | — | | |
| | ø22 | — | — | — | ● | 32F | 1 1/4 B Flange |
| | ø32 | ● | ● | ● | — | | |
| 6 | ø28 | — | — | — | ● | 40A | 1 1/2 |
| | ø40 | ● | ● | ● | — | | |
| | ø28 | — | — | — | ● | 40F | 1 1/2 B Flange |
| | ø40 | ● | ● | ● | — | | |
| 7 | ø33 | — | — | — | ● | 50A | 2 |
| | ø50 | ● | ● | ● | — | | |
| | ø33 | — | — | — | ● | 50F | 2B Flange |
| | ø50 | ● | ● | ● | — | | |

Note 1) Air operated only
Note 2) The valve type symbols for vacuum pilot type are 1 (N.C.) and 2 (N.O.) only.

### Rated voltage

| | |
|---|---|
| 1 | 100 VAC 50/60 Hz |
| 2 | 200 VAC 50/60 Hz |
| Note 2) 3 | 110 VAC 50/60 Hz |
| Note 2) 4 | 220 VAC 50/60 Hz |
| 5 | 24 VDC |
| Note 2) 6 | 12 VDC |
| Note 2) 7 | 240 VAC 50/60 Hz |
| Note 2) 9 | Other |

Note 1) Electrical entry: D or DZ only
Note 2) Semi-standard

### Manual override

**Nil**: Non-locking push type

**A**: Non-locking push type A (projecting) Note)

**B**: Slotted locking type B (tool required) Note)

Valve size 1 to 4

**Nil**: Non-locking push type

Valve size 5 to 7

Note) Semi-standard

### Electrical entry/With light/surge voltage suppressor

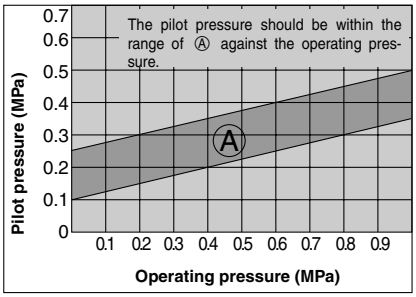
| Symbol | Electrical entry | Valve size |
|---|---|---|
| G | Grommet | Valve size 1 to 4 |
| GS | Grommet with surge voltage suppressor | |
| E | Grommet terminal | |
| EZ | Grommet terminal with light/surge voltage suppressor | |
| T | Conduit terminal | |
| TZ | Conduit terminal with light/surge voltage suppressor | |
| D | DIN terminal | |
| DZ | DIN terminal with light/surge voltage suppressor | |
| G | Grommet | Note 2) Valve size 5 to 7 |
| GS | Grommet with surge voltage suppressor | |
| C | Conduit | |
| T | Conduit terminal | |
| TS | Conduit terminal with surge voltage suppressor | |
| TZ Note 1) | Conduit terminal with light/surge voltage suppressor | |
| TL Note 1) | Conduit terminal with indicator light | |
| D | DIN terminal | |
| DL | DIN terminal with indicator light | |

**CE compliant**

| | | |
|---|---|---|
| D | DIN terminal | Valve size |
| DZ | DIN terminal with light/surge voltage suppressor | 1 to 7 |

Note 1) Except rated voltage 6, 7, 9.
Note 2) For valve sizes 5 to 7 of the DZ DIN terminal with light/surge voltage suppressor, be sure to add suffix -X200 at the end of the part number. (For CE compliant product, -X200 is not required.) In this case, the pilot solenoid valve is VO307-□DZ.

### Graph (4) VNB□□$^{2}_{3}$□ Pilot Pressure (N.O. and C.O. types)



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