

## VNB (Solenoid), Process Valve for Flow Control

### VNB114A-F8A-4DZ-Q

#### Datasheet

### General series information

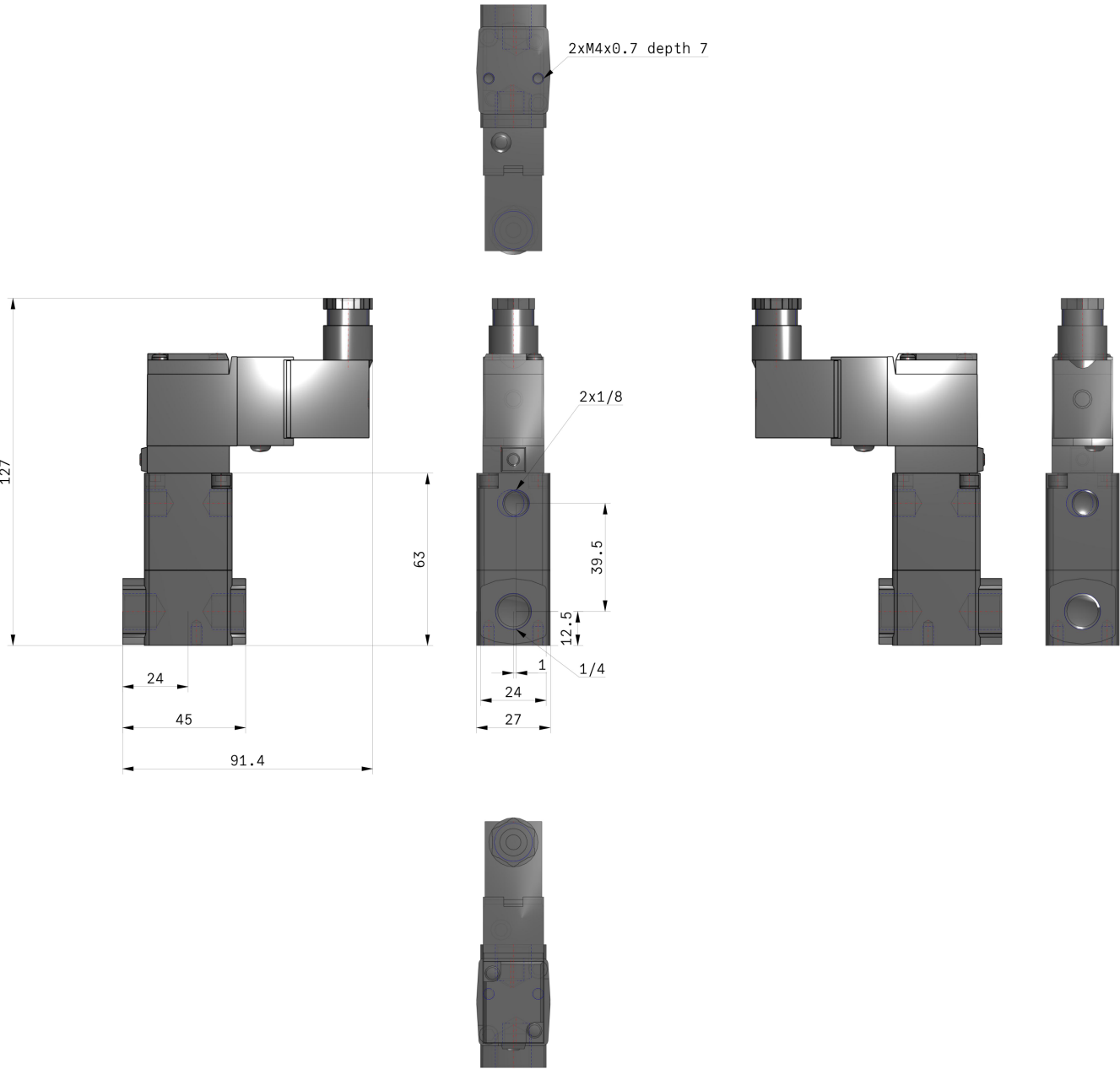
- Process valve series VNB
- External pilot solenoid
- Orifice size: 7mm to 50mm
- Port size: 1/8 to 2 Rc(PT)
- Seal material: NBR, FKM, EPR

### Standard specifications

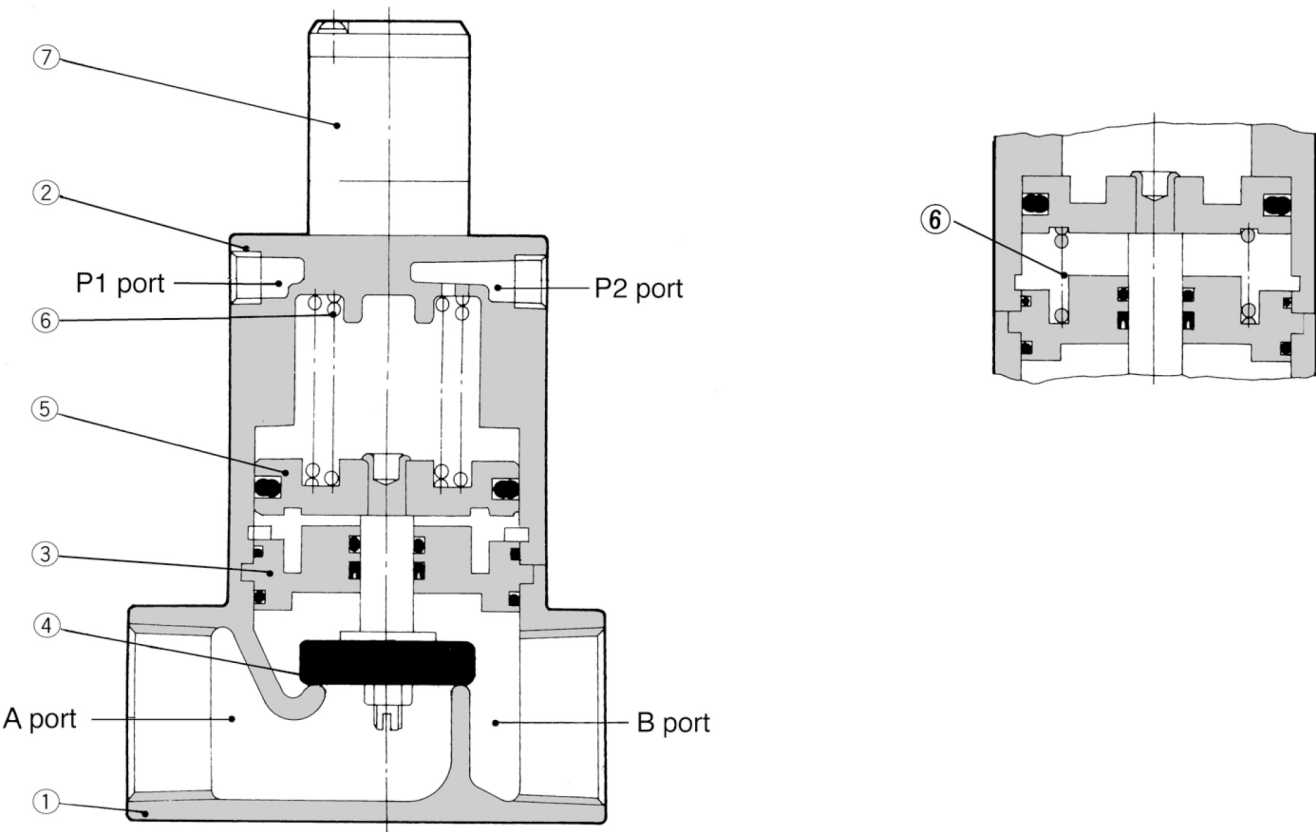
|                                        |                                                      |
|----------------------------------------|------------------------------------------------------|
| Area Code                              | Japan, Asia, Australia                               |
| Size                                   | 1 [ø7]                                               |
| Valve Type                             | 4 [NC (Operating Pressure 1MPa)]                     |
| Sealant                                | A (NBR Seal)                                         |
| Body Material                          | Standard (Bronze Body)                               |
| Pilot System Option                    | Standard                                             |
| Thread                                 | F (G(PF))                                            |
| Port Size                              | 8A (1/4)                                             |
| Voltage                                | 4 (220VAC 50/60HZ)                                   |
| Lead Wire                              | DZ (DIN Terminal w/Light & Surge Voltage Suppressor) |
| Manual Override                        | Non-locking Push Style                               |
| Bracket                                | None                                                 |
| CE Marked                              | Q (CE Marked)                                        |
| Maximum temperature of pressure medium | 60 °C                                                |
| Minimum temperature of pressure medium | -5 °C                                                |
| Proof pressure                         | 1.5 MPa                                              |
| Maximum ambient temperature            | 50 °C                                                |
| Minimum ambient temperature            | -5 °C                                                |

|                                 |                     |
|---------------------------------|---------------------|
| Pressure range                  | Low vacuum to 1 MPa |
| External pilot air: Press.      | 0.25 - 0.7 MPa      |
| External pilot air: Temperature | -5 °C - 50 °C       |
| Weight                          | 0.400 Kg            |

Dimensions



Constructions



Component Parts

| No. | Description          | Material        | Note                           |
|-----|----------------------|-----------------|--------------------------------|
| ①   | Body                 | Bronze*         | Clear coated                   |
| ②   | Cover assembly       | Aluminium alloy | Platinum silver painted        |
| ③   | Plate assembly       | Brass*          | Valve material (NBR, FKM, EPR) |
| ④   | Valve element        | (NBR, FKM, EPR) | Stainless steel or brass       |
| ⑤   | Piston assembly      | Aluminium alloy | —                              |
| ⑥   | Return spring        | Piano wire      | —                              |
| ⑦   | Pilot solenoid valve | —               | —                              |

Note) Parts ③ and ④ are for selection of valve composition.  
\* The body option "S" is stainless steel, and "L" is aluminum.

## Additional information

|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| Catalogue                 | <a href="#">VN_EU.pdf</a>                                                        |
| Declaration of conformity | <a href="#">newDoC_VN_TF1Z328EN.pdf</a><br><a href="#">DoC_VNx_TFM0001-B.pdf</a> |
| Installation manuals      | <a href="#">IM_VNB_TF2Z301EN-C.pdf</a>                                           |
| Operation manuals         | <a href="#">OM_VNB_OMA0005EN-E.pdf</a>                                           |