

VNB (Solenoid), Process Valve for Flow Control

VNB311A-20A-5DZ-Q

Datasheet

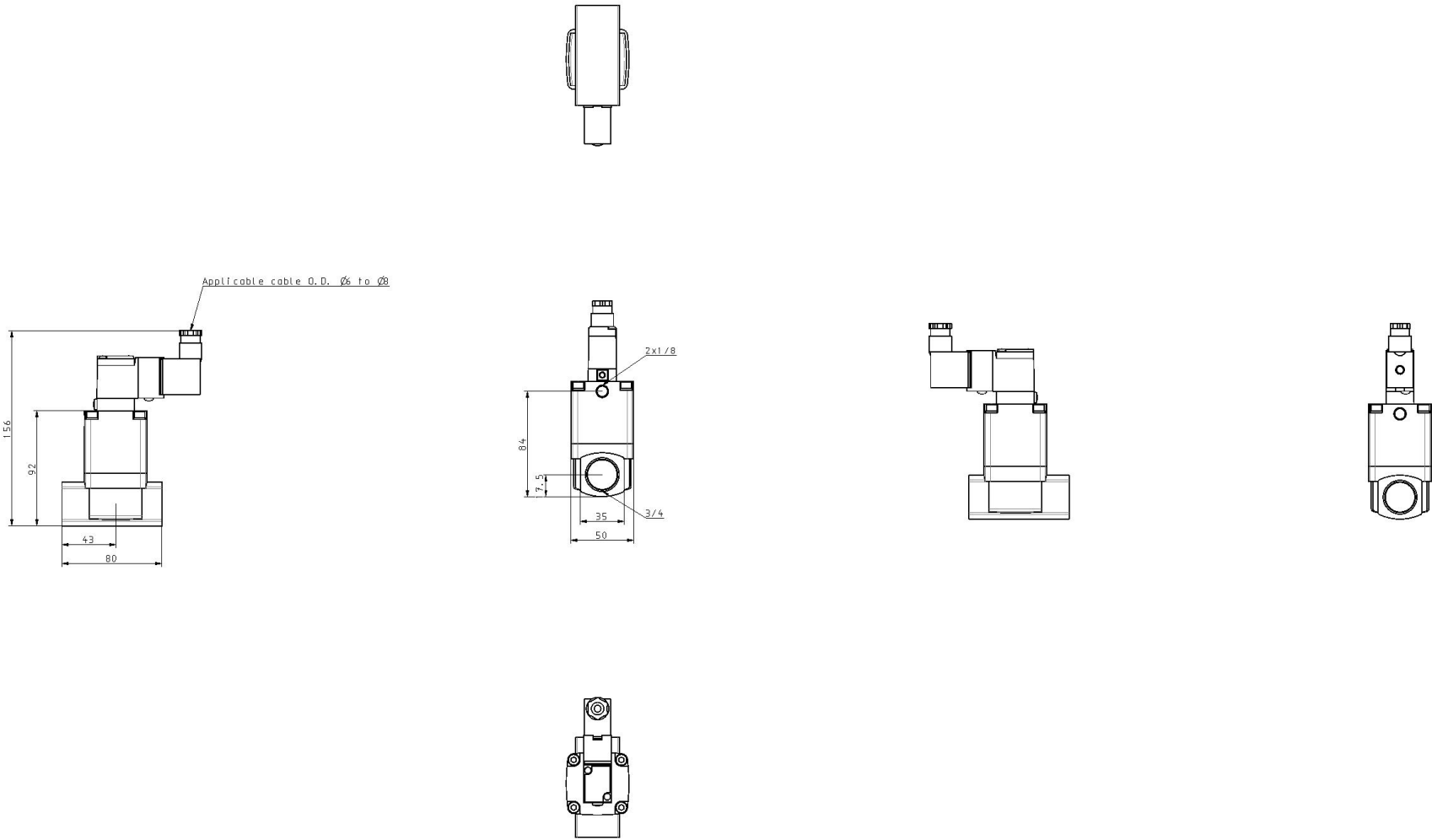
General series information

- 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

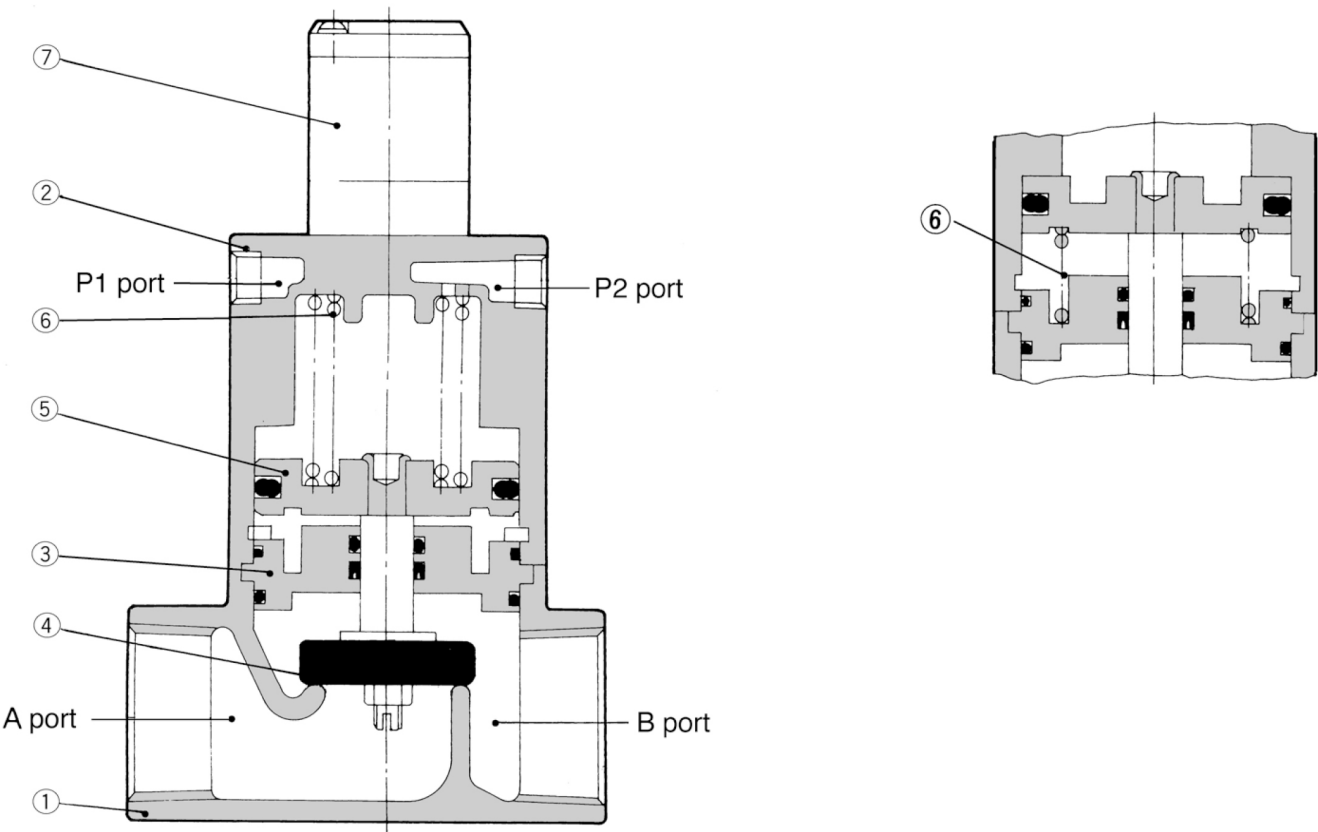
Standard specifications

Area Code	Japan, Asia, Australia
Size	3 [ø20 (N.C. 0.5 MPa/N.O. 1 MPa), ø14 (N.C. 1 MPa)]
Valve Type	1 [NC (Operating Pressure 05 MPa)]
Sealant	A (NBR Seal)
Body Material	Standard (Bronze Body)
Pilot System Option	Standard
Thread	Rc(PT)
Port Size	20A (3/4)
Voltage	5 (24VDC)
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 0.5 MPa
External pilot air: Press.	0.25 - 0.7 MPa
External pilot air: Temperature	-5 °C - 50 °C
Weight	1.000 Kg



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	VN_EU.pdf
Declaration of conformity	newDoC_VN_TF1Z328EN.pdf DoC_VNx_TFM0001-B.pdf
Installation manuals	IM_VNB_TF2Z301EN-C.pdf
Operation manuals	OM_VNB_OMA0005EN-E.pdf