# 5 Port Solenoid Valve/Direct Poppet Rubber seal Series VK3000

## Cv0.15 Compact/Width 18 X Length 68 (mm)

## Low power consumption

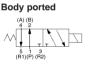
4W DC (Standard) 2W DC (Energy saver)

### Standard copper free specification

All the parts in contact with fluid are non-copper materials



JIS Symbol



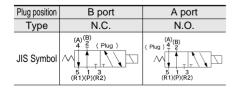
Base mounted

## Mounting with VK300

VK300 series can to be mounted on the same manifold base VV5K3 of VK3000 series. Refer to the p.1.4-4 for the details.

## Usage as 3 port vale

VK3000 series can be used as 3 port valve, as a N.C. or N.O. type, by plugging either "A" or "B" cylinder port. Make sure not to plug the exhaust port "R".



#### Model

Model						
	Valve model	Operating pressur range (MPa)	Port size	Effective area (mm <sup>2</sup> ) (Cv factor)	Weight (g) (Grommet)	SY
	VK3120		M5 X 0.8	2.7(0.15)		SYJ
Body	VK3120		Rc(PT) <sup>1</sup> /8	3.1(0.17)	90	313
ported	VK3120Y		M5 X 0.8	1.8(0.1)	90	<b>0</b> Y
	(Low wattage 2W DC)	0 to 0.7	Rc(PT) <sup>1</sup> /8	2.2(0.12)	1	SX
Base	VK3140	]		2.5(0.14)		
mounted	VK3140Y		Rc(PT) <sup>1</sup> /8	2.0(0.11)	130	VK
(with sub-plate)	(Low wattage 2W DC)			2.0(0.11)		
* Value for unit. In case of manifolds, it varies depending on operating conditions.						VZ
						VF
Specifi	cations					VFR
Style			Single, 2 p	osition, single sole	enoid	
Fluid				Air		VP7

Style	Single, 2 position, single solenoid	
Fluid	Air	VP7
Ambient and operating fluid temperature	50°C max.	
Response time at 0.5MPa <sup>(1)</sup>	10ms or less (Standard), 15ms or less (Low wattage)	VP4
Manual override	Non-locking push style	_ · · ·
Lubrication	Not required (If required, use turbin oil class 1 ISO VG32)	
Mounting orientation	Free	
Impact/Vibration resistance (2)	300/50m/s <sup>2</sup>	1/0
Protective construction	Dust proof	VQ
Note 1) According to Dynamic performance test JIS B8375-1981. (Coil temperature 20°C, at rated voltage, without surge suppressor)		
<ul> <li>Note 2) Impact resistance:</li> <li>No malfunction from test using drop impact tester, to axis and right angle direction of main valve and armature, each one time when energized and de-energized.</li> </ul>		
Vibration resistance: No malfunction from test with 8.3 to 2000 Hz 1 sweep, to axis and right angle direction of main valve and armature, each one time when energized and de-energized.		
(Valve in the initial Stage.)		

## **Solenoid Specifications**

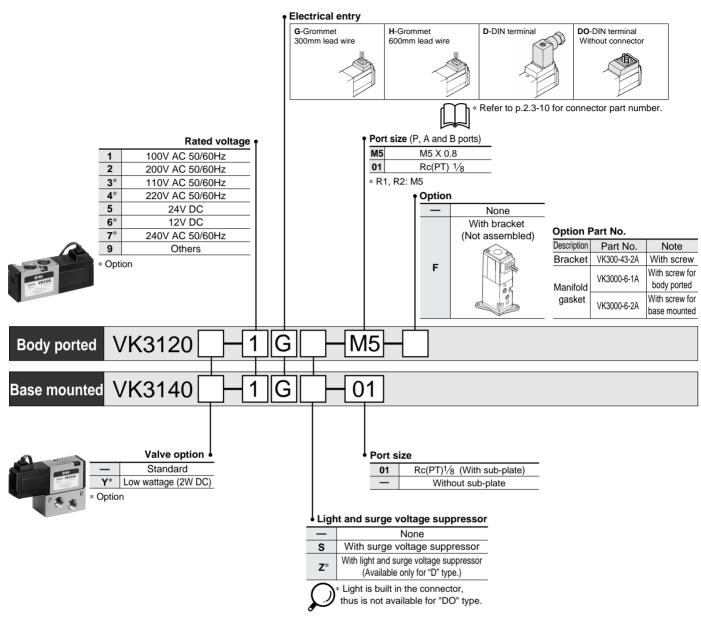
Electrical entry		Grommet (G), DIN terminal (D)	—  VS
Potod voltage	AC	100V, 110V, 200V, 220V, 240V	
Rated voltage	DC	6V, 12V, 24V, 48V	VS7
Allowable voltage		±10% of rated voltage	
Phase voltage(AC)*	Inrush	9.5VA/50Hz, 8VA/60Hz	
Fliase voltage(AC)	Holding	7VA/50Hz, 5VA/60Hz	
	W/o light	4W (Standard), 2W (Low wattage)	
Power consumption(DC)*	W/ light	4.3W (Standard), 2.3W (Low wattage)	
	AC	Varistor	
Surge voltage suppressor	DC	Diode (12V DC or less: Varistor)	
la diaatan liabt	AC	Neon light	
Indicator light	DC	LED	

\* At the rated voltage

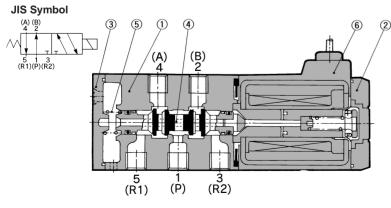
VZS

VFS

## How to Order



#### Construction



#### **Component Parts**

No.	Description	Material	Note
1	Body	Aluminum die cast	Platinum silver paint
2	Cover	Resin	Black
3	End cover	Resin	Black
(4)	Spool valve ass'y	Alluminum, NBR	
5	Return spring	Stainless steel	
6	Molded coil	Resin	Black