# 3 Port Direct Operated Solenoid Valve Metal Seal, Body Ported/Base Mounted VS3115/3110

### Multiple pressure supply is possible with balanced spool sleeve.

Any given port can accept high or low pressure supply without affecting the system life or operation.

# No-lubrication and dry-air operation possible.





Base mounted

**Standard Specifications** 

	Fluid			Air/Inert gas				
	Operating pressure range			0 to 1.0 MPa				
	Proof pressure			1.5 MPa				
	Ambient and fluid tempera	ture		-20 to 60°C (No freezing)				
	Response time (1)			10 ms or less (AC), 45 ms or less (DC)				
	Max. operating frequency	(2)		1,500 c.p.m. (AC), 180 c.p.m. (DC)				
	Manual override			Non-locking				
	Lubrication			Not required (Use turbine oil Class 1 ISO VG32, if lubricated.)				
	Enclosure			Dustproof [Degrees of protection 0] (4)				
	Shock/Vibration resistance	Shock/Vibration resistance (m/s²)			150/50 (5)			
	Electrical entry			Grommet, DIN terminal				
	•		Standard	100, 200 VAC, 50/60 Hz; 24 VDC				
	Coil rated voltage		0 ::	220, 110, 48, and 24 VAC (50/60 Hz)				
			Option		100, 48, and 12 VDC			
	Allowable voltage fluctuation	on		-15 to -10% of rated voltage				
	Coil insulation type			Class B or equivalent (130°C) (6)				
	Apparent power (VA)	AC-	Inrush	50 Hz	51			
				60 Hz	45			
	(Power consumption (W))		Holding	50 Hz	17 (5.3)			
				60 Hz	11 (2.9)			
	Power consumption (W)	Power consumption (W)			5.5			
				Bracket (AXT338-11)/For body ported type				
	Accessory (Option)			Indicator light				
				Manual override				

- Note 1) Based on JIS B 8375-1981. (at 0.5 MPa, without surge voltage suppressor)
- Note 2) Minimum operating frequency is once in 30 days. (Based on JIS B 8375.)
  - Note 3) "Note 1)" and "Note 2)" are with controlled clean air.

Note 4) Based on JIS C 0920.

Note 5) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

### Flow Characteristics/Weight

	Valve model	Port size Rc	Flow characteristics						Maight (kg)	
Body type			$P \rightarrow A$			$A \rightarrow E$			Weight (kg)	
			C [dm3/(s-bar)]	b	Cv	C [dm3/(s·bar)]	b	Cv	AC	DC
Pady parted	VS3115-01□□	1/8	3.3	0.36	0.86	2.5	0.39	0.66	0.34	0.46
Body ported	VS3115-02□□	1/4	3.8	0.19	0.86	3.6	0.34	0.88	0.34	0.46
Base	VS3110-02□□	1/4	4.0	0.12	0.93	3.2	0.31	0.76	0.40	0.52
mounted	VS3110-03□□	3/8	4.0	0.15	0.94	3.6	0.18	0.82	0.40	0.52
For manifold use	VS3114-00□□		Without sub-plate						0.32	0.44

# JIS Symbol

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For Safety Instructions and Solenoid Valve Precautions, refer to pages 4-18-2 to 4-18-6.

## How to Calculate the Flow Rate

For obtaining the flow rate, refer to page 4-1-6.

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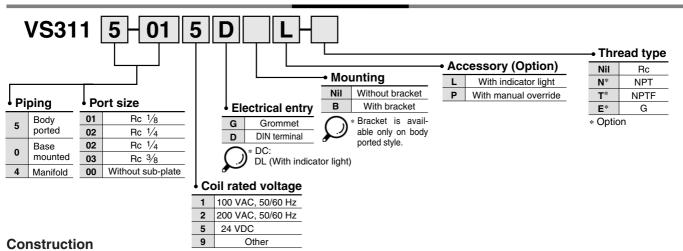
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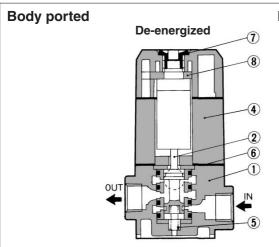
VS

**VFN** 

# Series VS3115/3110

# **How to Order**





# De-energized 7 8 4 1 2 5 Component Parts

No.	Description	Material	Note	
1	Body	Aluminum die-casted	Platinum silver	
2	Spool/Sleeve	Stainless steel		
3	Sub-plate	Aluminum die-casted	Platinum silver	

# Sub-plate Assembly Part No.: VS3110-S-02 No.: VS3110-S-02

# Part No. for Mounting Bolt and Gasket

BG-VS3010

# **Replacement Parts**

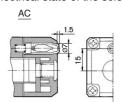
No.	Decemination	Material		Part no.					
INO.	Description			VS3115-□G	VS3115-□D	VS3110-□G	VS3110-□D		
	Solenoid capsule assembly	AC		SCA006-□	SCAD001-□	SCA006-□	SCAD001-□		
4)		DC		SCA001-□	SCAD001-□	SCA001-□	SCAD001-□		
(E)	5 Spring	Piano	AC	AXT338-6					
(3)		wire	DC	AZ832-16					
6	Gasket	NBR		AXT3	33-14	AXT338-15			
7	Plug for cap	Resin		AXT333-16					
(8)	Ctonnor	Danin	AC	AXT333-7-11					
(8)	Stopper	Resin	DC	AXT333-32-8					

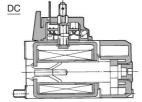
☐: Enter the operating voltage.

## **Accessory (Option)**

### **Indicator light**

When solenoid is energized, indicator light illuminates, thus the electrical state of the solenoid can be seen from the outside.

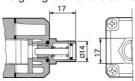




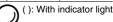
Note) There is polarity of (1) +, (2) -.

### Manual override

Remove the rubber plug on the top of the solenoid cap to mount the manual override. Push the override with a screwdriver to the required stroke and the valve will shift. Turn to the right or left at 90 degrees to lock it. Be sure to unlock the override before energizing the valve electrically.



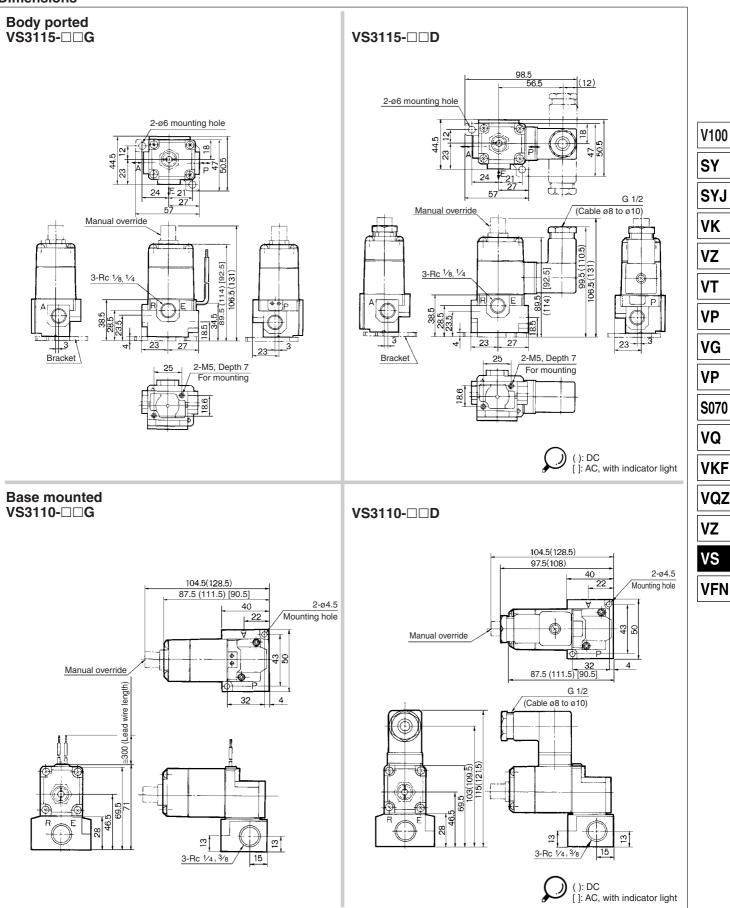
•								
	Description	Part no.						
	Description	AC	DC					
	Manual override (With lock)	PB0111-3 (PB0111)	PB0111-1					
	Manual override (Non-locking)	PB0101	PB0101-1					





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## **Dimensions**



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