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	e (m/	S ²)	150/50 (5)				
Electrical entry			Grommet, DIN terminal				
Coil rated voltage		Standard	100, 200 VAC, 50/60 Hz; 24 VDC				
		.	220, 110, 48, and 24 VAC (50/60 Hz)				
		Option	100, 48, and 12 VDC				
Allowable voltage fluctuati	Allowable voltage fluctuation			-15 to -10% of rated voltage			
Coil insulation type			Class B or equivalent (130°C) (6)				
•		Inrush	50 Hz	51			
Apparent power (VA)			60 Hz	45			
(Power consumption (W))	AC		50 Hz	17 (5.3)			
		Holding	60 Hz	11 (2.9)			
Power consumption (W)	Power consumption (W) DC		5.5				
Accessory (Option)			Bracket (AXT338-11)/For body ported type				
			Indicator light				
			Manual override				

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- 7 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						\\\ai=\b\ (\car\)	
Body type			$P \rightarrow A$			$A \rightarrow E$			Weight (kg)	
			C [dm3/(s-bar)]	b	Cv	C [dm3/(s-bar)]	b	Cv	AC	DC
Body ported	VS3115-01□□	1/8	3.3	0.36	0.86	2.5	0.39	0.66	0.34	0.46
	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

⚠ Caution

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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SY

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VP

S070

VQ

VKF

VQZ

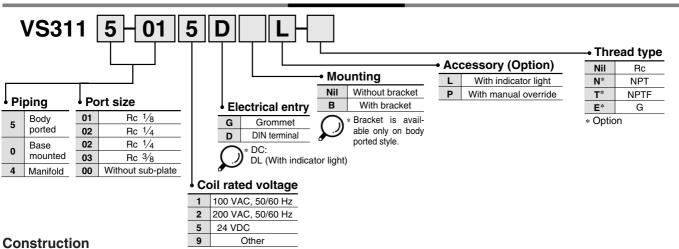
VZ

VS

VFN

Series VS3115/3110

How to Order



Body ported De-energized (7) (8) (7) (6) (1) (5)

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 Mounting bolts and gaskets are not attached.

Part No. for Mounting Bolt and Gasket

Replacement Parts

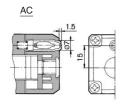
	-								
No	No. Description		oriol	Part no.					
No. Description		Material		VS3115-□G	VS3115-□D	VS3110-□G	VS3110-□D		
(4)	Solenoid	AC		SCA006-□	SCAD001-□	SCA006-□	SCAD001-□		
4)	capsule assembly	D	С	SCA001-□	SCAD001-□	SCA001-□	SCAD001-□		
(5)	© 0	Piano	AC	AXT338-6					
(5) Spring	wire	DC	AZ832-16						
6	Gasket	NBR		AXT3	33-14	AXT3	AXT338-15		
7	Plug for cap	Re	Resin AXT333-16						
© Ctannar	Stopper	Daria		AXT333-7-11					
(8)	8 Stopper	Resin	DC	AXT333-32-8					

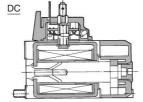
☐: Enter the operating voltage.

Accessory (Option)

Indicator light

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

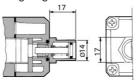




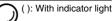
Note) There is polarity of (1) +, (2) -.

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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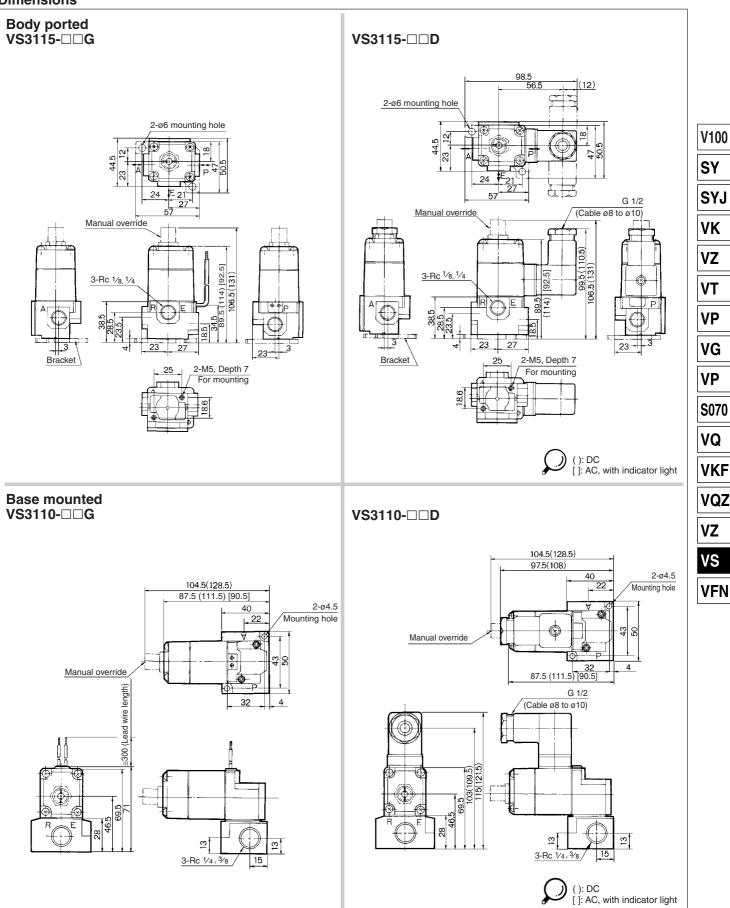
VQ

VKF

VQZ

Series VS3115/3110

Dimensions



Series VS3115/3110

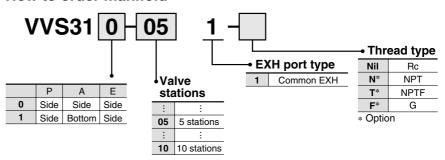
Manifold Specifications



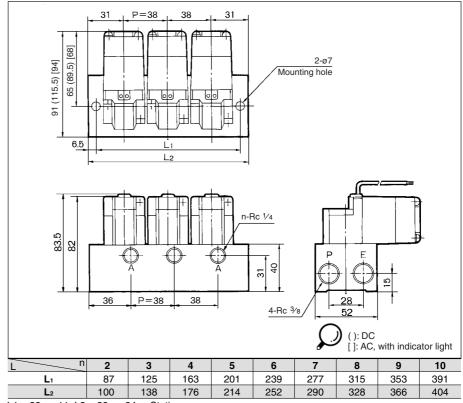
Specifications

Man		B mount					
Max		10 stations					
Exhaust	Port lo	ocation/Po	rt size	Port direction			Applicable valve model
type	Р	Α	E	Р	Α	Е	Applicable valve model
Common	Base	Base	Base	Side	Side	Side	VS3114-00□□
Common	3/8	1/4	3/8	Side	Bottom	Side	√53114-00□□
Accessory Blanking plate (W				Vith gaskets	and screw)		AXT338-17A

How to order manifold



Dimensions



L1 = 38n + 11, L2 = 38n + 24 n: Station Formula for manifold weight M = 0.16n + 0.1 (kg)