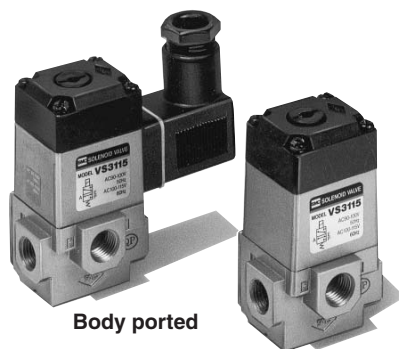


3 Port Direct Operated Solenoid Valve Metal Seal, Body Ported/Base Mounted **VS3115/3110**

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.

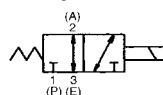


Body ported



Base mounted

JIS Symbol



Standard Specifications

Fluid			Air/Inert gas			
Operating pressure range			0 to 1.0 MPa			
Proof pressure			1.5 MPa			
Ambient and fluid temperature			-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 (m/s ²)			150/50 ⁽⁵⁾			
Electrical entry			Grommet, DIN terminal			
Coil rated voltage		Standard	100, 200 VAC, 50/60 Hz; 24 VDC			
		Option	220, 110, 48, and 24 VAC (50/60 Hz) 100, 48, and 12 VDC			
Allowable voltage fluctuation			-15 to -10% of rated voltage			
Coil insulation type			Class B or equivalent (130°C) ⁽⁶⁾			
Apparent power (VA) (Power consumption (W))		AC	Inrush	50 Hz 60 Hz	51 45	
			Holding	50 Hz 60 Hz	17 (5.3) 11 (2.9)	
		Power consumption (W)		DC	5.5	
		Accessory (Option)			Bracket (AXT338-11)/For body ported type	
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

Body type	Valve model	Port size Rc	Flow characteristics						Weight (kg)	
			P → A			A → E				
			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 mounted	VS3110-02□□	1/4	4.0	0.12	0.93	3.2	0.31	0.76	0.40	0.52
	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

⚠ 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.

V100

SY

SYJ

VK

VZ

VT

VP

VG

VP

S070

VQ

VKF

VQZ

VZ

VS

VFN

Series VS3115/3110

How to Order

VS311 5 01 5 D L

Piping

5	Body ported
0	Base mounted
4	Manifold

Port size

01	Rc 1/8
02	Rc 1/4
03	Rc 3/8
00	Without sub-plate

Electrical entry

G	Grommet
D	DIN terminal

* DC: DL (With indicator light)

Coil rated voltage

1	100 VAC, 50/60 Hz
2	200 VAC, 50/60 Hz
5	24 VDC
9	Other

Mounting

Nil	Without bracket
B	With bracket

* Bracket is available only on body ported style.

Accessory (Option)

L	With indicator light
P	With manual override

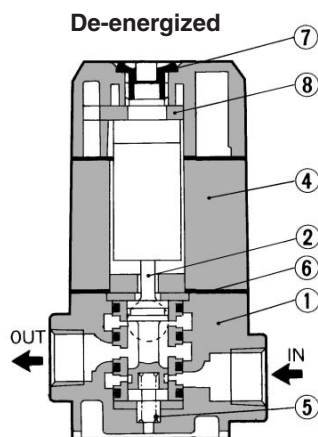
Thread type

Nil	Rc
N*	NPT
T*	NPTF
E*	G

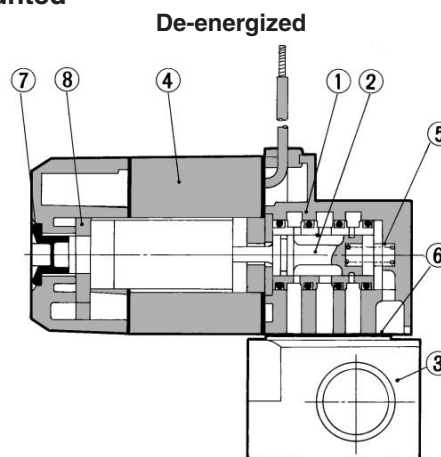
* Option

Construction

Body ported



Base mounted



Sub-plate Assembly Part No.: VS3110-S-02/03

* Mounting bolts and gaskets are not attached.

Part No. for Mounting Bolt and Gasket

BG-VS3010

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

Replacement Parts

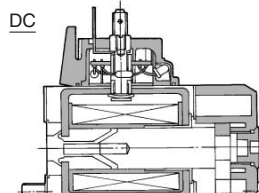
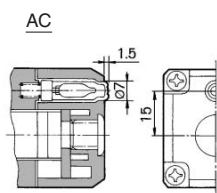
No.	Description	Material		Part no.			
				VS3115-□G	VS3115-□D	VS3110-□G	VS3110-□D
④	Solenoid capsule assembly	AC	SCA006-□	SCAD001-□	SCA006-□	SCAD001-□	
		DC	SCA001-□	SCAD001-□	SCA001-□	SCAD001-□	
⑤	Spring	Piano wire	AC	AXT338-6			
		DC		AZ832-16			
⑥	Gasket	NBR	AXT333-14		AXT338-15		
⑦	Plug for cap	Resin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

□: Enter the operating voltage.

Accessory (Option)

Indicator light

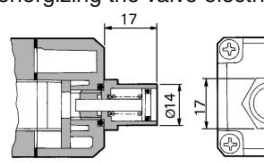
When solenoid is energized, indicator light illuminates, thus the electrical state of the solenoid can be seen from the outside.



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.	
	AC	DC
Manual override (With lock)	PB0111-3 (PB0111)	PB0111-1
Manual override (Non-locking)	PB0101	PB0101-1

() : With indicator light