

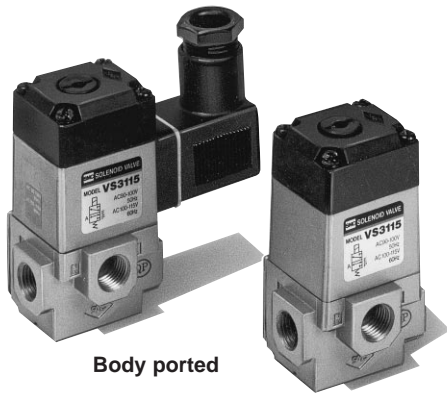
3 Port Direct Operated/Metal Seal Body Ported/Base Mounted

VS3115/3110

Multiple pressure supply is possible with balanced spool and 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.

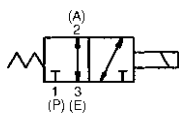


Body ported



Base mounted

JIS symbol



Standard Specifications

Fluid		Air, Inert gas		
Operating pressure range		0 to 1.0MPa		
Proof pressure		1.5MPa		
Ambient and fluid temperature		-20°C to 60°C (No freezing)		
Effective area (CV factor)		19.8mm ² (1.1) for port size Rc(PT) 1/4		
Response time ⁽¹⁾		10ms or less (AC), 45ms or less (DC)		
Max. operating frequency ⁽²⁾		1,500CPM (AC), 180CPM (DC)		
Manual override		Non-locking		
Lubrication		Not required. If a lubricant is provided, use turbine oil #1 (ISO VG32)		
Enclosure		Dust proof (Class 0) ⁽⁴⁾		
Shock resistance (Vibration resistance) (m/s ²)		150 m/s ² (50m/s ²) ⁽⁵⁾		
Electrical entry		Grommet, DIN connector		
Voltage	Standard	100V AC, 200V AC (50/60Hz), 24V DC		
	Option	AC: 220V, 110V, 48V, 24V (50/60Hz) DC: 100V, 48V, 12V		
Allowable voltage		-15% to +10% of rated voltage		
Insulation		Class B or equivalent (130°C) ⁽⁶⁾		
Apparent power VA (Power consumption W)	AC	In-rush	50Hz	51
			60Hz	45
		Holding	50Hz	17 (5.3)
			60Hz	11 (2.9)
Power consumption W	DC	5.5		
Accessories (Option)		Bracket (AXT338-11)/For body ported style		
		Indicator light		
		Manual override		



Note 1) Based on JIS B8375-1981. (At 0.5MPa, without surge voltage suppressor)

Note 2) Min. operating frequency is once in 30 days. (Based on JIS B8375.)

Note 3) Note 1)/Note 2): Under the condition of controlled clean air.

Note 4) Based on JIS V0920.

Note 5) Shock resistance: No malfunction from tests using drop impact tester, to axis and right angle directions of main valve and armature, each one time when energized and de-energized.

Vibration resistance: No malfunction from tests with 45 to 1000Hz1 sweep, to axis and right angle directions of main valve and armature, each one time when energized and de-energized. (Valve in the initial stage.)

Note 6) Based on JIS C4003.

Model

Porting	Model	Port size Rc(PT)	Effective area (mm ²) (Cv)	Weight (kg)	
				AC	DC
Body ported	VS3115-01□□	1/8	14.4 (1.8)	0.34	0.46
	VS3115-02□□	1/4	19.8 (1.1)	0.34	0.46
Base mounted	VS3110-02□□	1/4	19.8 (1.1)	0.40	0.52
	VS3110-03□□	3/8	19.8 (1.1)	0.40	0.52
For manifold use	VS3114-00□□	Without sub-plate		0.32	0.44

⚠ Caution

Refer to p.0-33 to 0-36 for Safety Instructions and common precautions.

How to Order

VS311 5 01 5 D [] L

Piping

5	Body ported
0	Base mounted
4	For manifold use

Port size

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

Electrical entry

G	Grommet
D	DIN connector

*DC: DL (With indicator light)

Mouting

—	Without bracket
B	With bracket

*Bracket is available only on body ported style.

Accessories(Optional)

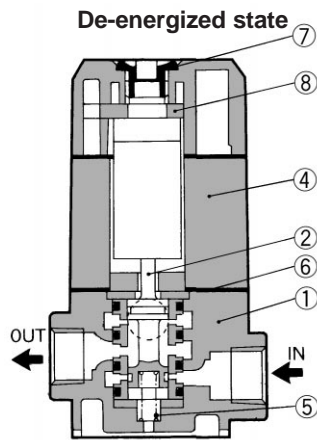
L	With indicator light
P	With manual override

Voltage

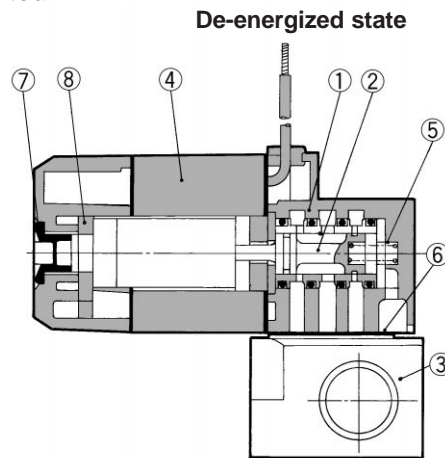
1	100V AC 50/60Hz
2	200V AC 50/60Hz
5	24V DC
9	Others

Construction

Body ported



Base mounted



Sub-plate assembly part No.: VS3110-S-02/03



*Mounting bolts and gaskets are not attached.

Component Parts

No.	Description	Material	Notes
①	Body	Aluminum die cast	Color: Platinum silver
②	Spool sleeve	Stainless steel	
③	Sub-plate	Aluminum die cast	Color: Platinum silver

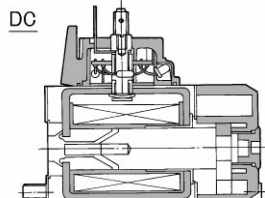
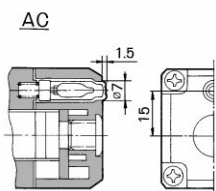
Replacement Parts

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

Accessories (Optional)

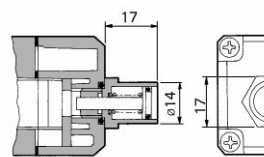
Indicator light

If solenoid is energized, the indicator light turns on; therefore, the energized condition of solenoid can be seen from the outside.



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
Override (Locking)	PB0111-3 (PB0111)	PB0111-1
Override (Non-locking)	PB0101	PB0101-1



() : With indicator light

SY

SYJ

VK

VZ

VT

VT

VP

VG

VP

VQ

VQZ

VZ

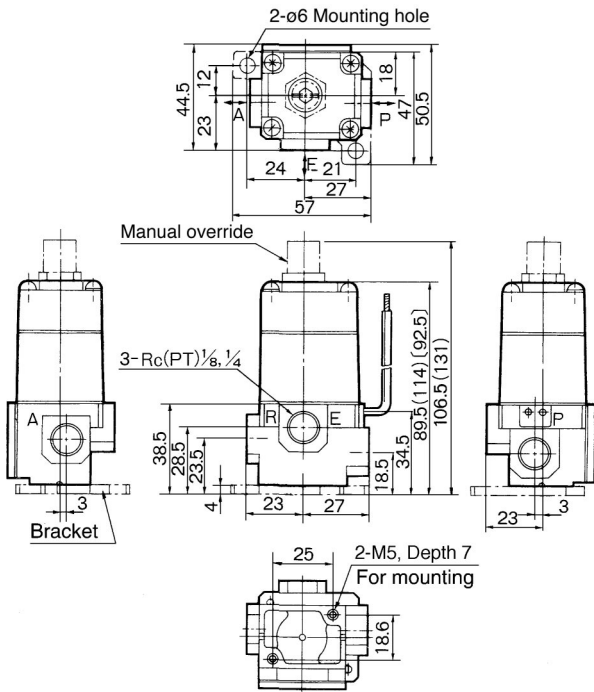
VS

VS3115/3110

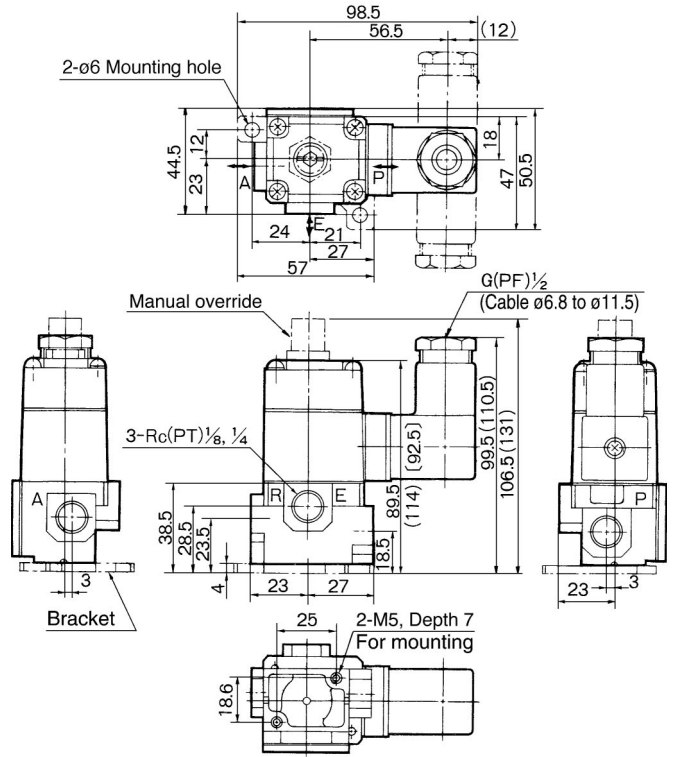
Dimensions

Body ported

VS3115-□□G



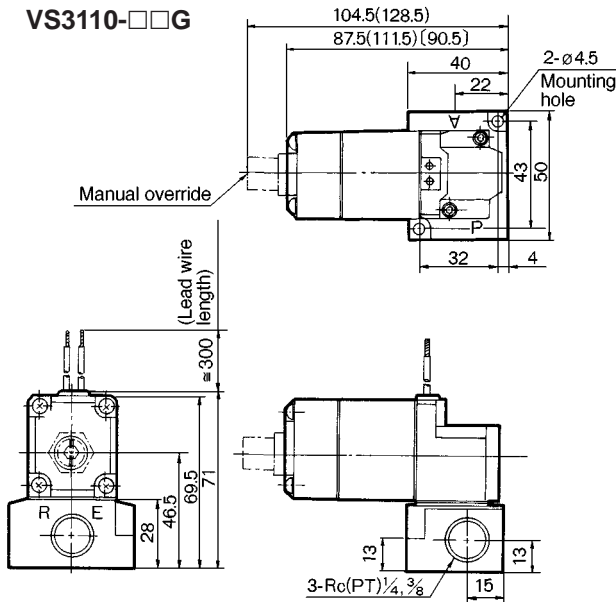
VS3115-□□D



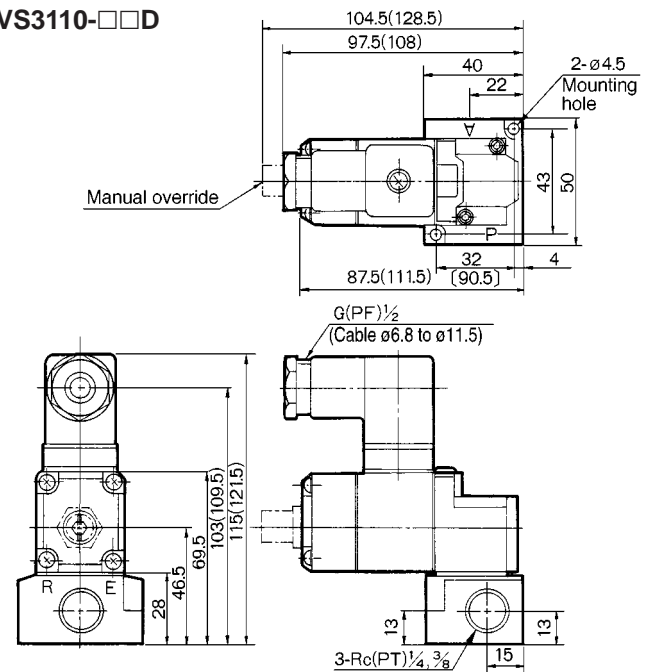
(): DC type
 [] : AC type, with indicator light

Base mounted

VS3110-□□G



VS3110-□□D



(): DC
 [] : AC, with indicator light