Series SV Solenoid Valve Specifications



Made to Order Specifications (For details, refer to page 1-2-108.)

JIS Symbol

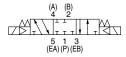
2 position single solenoid



2 position double solenoid



3 position closed center



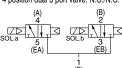
3 position exhaust center



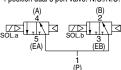
3 position pressure center



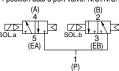
4 position dual 3 port valve: N.C./N.C.



4 position dual 3 port valve: N.O./N.O.



4 position dual 3 port valve: N.C./N.O.



Fluid			Air	
Internal pilot Operating	2 position single 4 position dual 3 port valve		0.15 to 0.7	
pressure range (MPa)	2 position double		0.1 to 0.7	
	3 position		0.2 to 0.7	
External pilot	Operating pressure range		-100 kPa to 0.7	
Operating pressure range (MPa)	2 position single, double 3 position		0.25 to 0.7	
Ambient and fluid temperature (°C)		perature (°C)	-10 to 50 (No freezing. Refer to page 1-7-4.)	
Max. operating frequency (Hz)	2 position single, double 4 position dual 3 port valve		5	
	3 position		3	
Manual override			Non-locking push type	
Manual overnide			Push-turn locking slotted type	
Pilot exhaust	method	Internal pilot	Common exhaust type for main and pilot valve	
1 IIOt exilaust		External pilot	Pilot valve individual exhaust	
Lubrication			Not required	
Mounting orientation			Unrestricted	
Impact/Vibration resistance (ms²)			150/30	
Enclosure			IP67 (Based on IEC529)	
Coil rated voltage			24 VDC, 12 VDC	
Allowable voltage fluctuation			±10% of rated voltage	
Power consumption			0.6 (With indicator light: 0.65)	
Surge voltage suppressor			Zener diode	
Indiator light			LED	

Note) 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 resisitance: No malfunction occured in a one-sweep test between 45 and 2000 Hz. Test was perfomed at both energized and deenergized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

Response Time

	Tune of actuation	Response time (ms) (at the pressure of 0.5 MPa)				
	Type of actuation	SV1000	SV2000	SV3000	SV4000	
	2 position single	11 or less	25 or less	28 or less	40 or less	
2	2 position double	10 or less	17 or less	26 or less	40 or less	
	3 position	18 or less	29 or less	32 or less	82 or less	
	4 position dual 3 port valve	15 or less	33 or less	_	_	



Note) Based on dynamic performance test, JIS B 8375-1981. (Coil temperature: 20°C, at rated voltage)

Weight

weight					
Series	Type of actuation	Weight (g)			
	Single solenoid	66			
SV1000	Double solenoid	71			
371000	3 position	73			
	4 position dual 3 port	71			
	Single solenoid	74			
SV2000	Double solenoid	78			
372000	3 position	83			
	4 position dual 3 port	78			
	Single solenoid	99			
SV3000	Double solenoid	102			
	3 position	110			
	Single solenoid	186			
SV4000	Double solenoid	190			
	3 position	211			

Note) Weight of solenoid valve only.



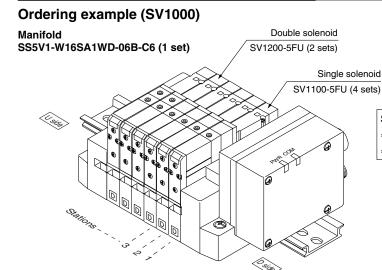
SY

SV

SYJ

SX

How to Order Valve Manifold Assembly



SS5V1-W16SA1WD-06B-C6······1 set (Manifold part no.)

*SV1100-5FU······4 sets (Single solenoid part no.)

*SV1200-5FU----2 sets (Double solenoid part no.)

SV

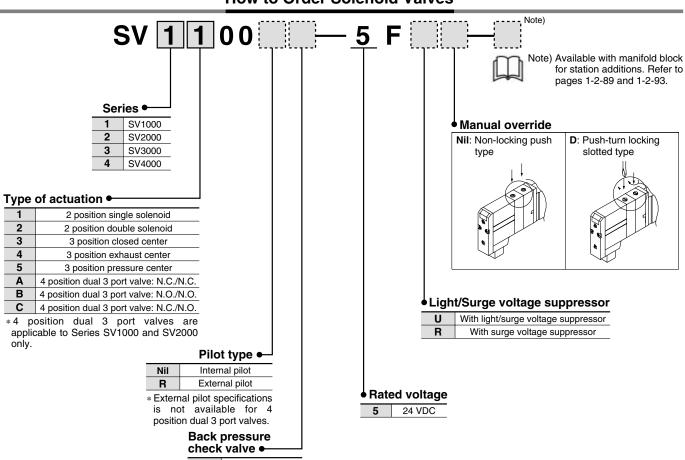
SZ

SY

SYJ

SX

How to Order Solenoid Valves



Nil	None
K	Built-in

- *Built-in back pressure check valve type is applicable to series SV1000 only.
- * Back pressure check valve is not available for 3 position closed center and 3 position pressure

