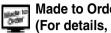
### Series SV Solenoid Valve Specifications



**Made to Order Specifications** (For details, refer to page 448.)

#### JIS Symbol

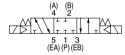
2 position single solenoid



2 position double solenoid



3 position closed center



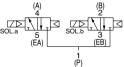
3 position exhaust center



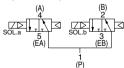
3 position pressure center



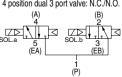
4 position dual 3 port valve: N.C./N.C.



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		on single on dual 3 port valve	0.15 to 0.7					
pressure range	2 position	on double	0.1 to 0.7					
(MPa)	3 position	on	0.2 to 0.7					
External pilot	Operatii	ng pressure range	-100 kPa to 0.7					
Operating pressure range (MPa)	2 positio 3 positio	on single, double on	0.25 to 0.7					
		nperature (°C)	-10 to 50 (No freezing. Refer to page 5.)					
frequency	2 position 4 position	on single, double on dual 3 port valve	5					
(Hz)	3 positio	on	3					
Manual over	ride		Non-locking push type					
Mariaar over	iuc		Push-turn locking slotted type					
Pilot exhaust	method Internal pilot		Common exhaust type for main and pilot valve					
i not exhaust	memou	External pilot	Pilot valve individual exhaust					
Lubrication			Not required					
Mounting ori	entation		Unrestricted					
Impact/Vibra	tion resi	stance (ms²)	150/30					
Enclosure			IP67 (Based on IEC60529)					
Coil rated vo	Itage		24 VDC, 12 VDC					
Allowable vo	ltage flu	ctuation	±10% of rated voltage					
Power consu	ımption		0.6 (With indicator light: 0.65)					
Surge voltag	e suppre	essor	Zener diode					
Indiator light	:		LED					

Note) Impact resistance:

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 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)

### **Response Time**

Type 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 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)

#### Mass

Series	Type of actuation	Mass (g)				
	Single solenoid	66				
0)/4000	Double solenoid	71				
SV1000	3 position	73				
	4 position dual 3 port	71				
	Single solenoid	74				
CVCCCC	Double solenoid	78				
SV2000	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) Mass of solenoid valve only.



353

SJ

SYJ

SZ

VP4

**S0700** 

VQ

VQ4

VQ5

VQC VQZ

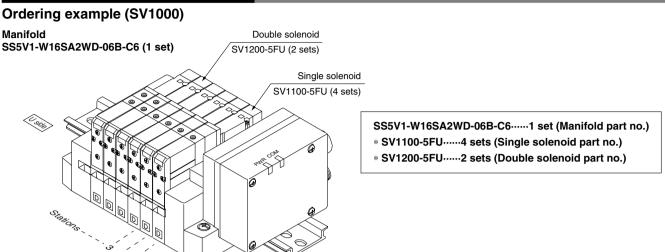
SQ

**VFS** 

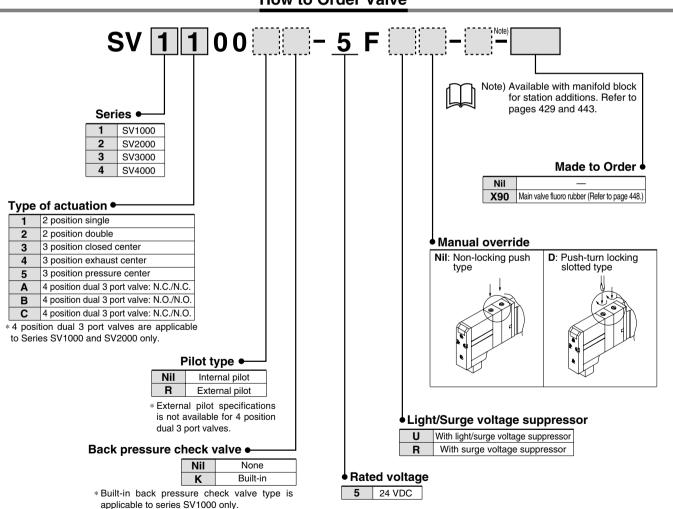
VFR

VQ7

## **How to Order Manifold Assembly**



#### **How to Order Valve**



applicable to series SV1000 only.

\* Back pressure check valve is not available for 3 position valve.

> Refer to Specific Product Precautions 2 on page 450.

357

SJ

SYJ

SZ

VP4

**S0700** 

VQ

VQ4

VQ5

VQC

VQZ

SQ

**VFS** 

**VFR** 

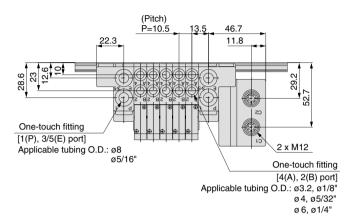
VQ7

# Series SV

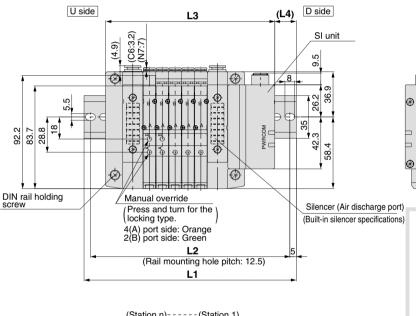
### Dimensions: Series SV1000 for EX500 Gateway System Serial Transmission System

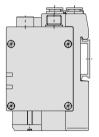
# ● Cassette base manifold: SS5V1-W16SA2WD-Stations (S, R, RS)-C4, N3

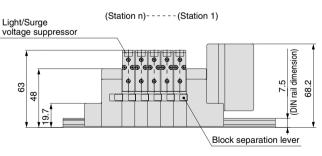
- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

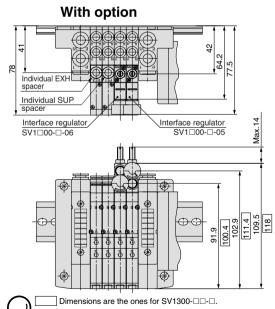


# 









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n: Stations															
<u>_</u>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	135.5	148	160.5	173	173	185.5	198	210.5	223	235.5	235.5	248	260.5	273	285.5
L2	125	137.5	150	162.5	162.5	175	187.5	200	212.5	225	225	237.5	250	262.5	275
L3	106.5	117	127.5	138	148.5	159	169.5	180	190.5	201	211.5	222	232.5	243	253.5
L4	14.5	15.5	16.5	17.5	12.5	13.5	14.5	15.5	16.5	17.5	12	13	14	15	16

