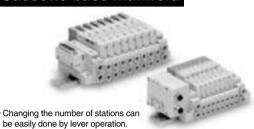
Valve Manifold Common Specifications

Series SV



Cassette base manifold



Manifold Specifications

A	oplicable series	SV1000	SV2000		
Manifold ty	ре	Stacking type cassette base manifold			
1 (P: SUP),	3/5 (E: EXH) type	Common SUP, EXH			
Valve statio	ons (maximum)	18 stations	20 stations		
Max. number of solenoids		18 points	26 points		
	1(P), 3/5(E) port	C8, N9	C10, N11		
Port size	4(A) 0(D)t	C3, C4, C6	C4, C6, C8		
	4(A), 2(B) port	N1, N3, N7	N3, N7, N9		

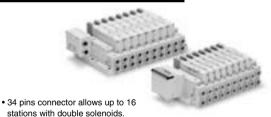
Flow Characteristics

	1 TOTAL CONTINUES								
		Port	size	Flow chara			acteristics		
	Model	1, 5, 3	4, 2	1→4/2 (P→A/B)			4/2→3/5 (A/B→E)		
		(P,EA,EB)	(A,B)	C[dm ³ /(s·bar)]	b	Cv	C[dm³/(s·bar)]	b	Cv
ĺ	SS5V1-16	C8	C6	0.89	0.22	0.22	0.98	0.21	0.23
	SS5V2-16	C10	C8	2.3	0.28	0.50	2.7	0.18	0.56



Note) The value is for manifold base with 5 stations and individually operated 2 position type.

Tie-rod base manifold



Manifold Specifications

Marinola C	pecinications						
Ар	plicable series	SV1000	SV2000	SV3000	SV4000		
Manifold type			Tie-rod base manifold				
1 (P: SUP), 3/5 ((E: EXH) type		Common SUP, EXH				
Valve stations ((maximum)	20 stations					
Max. number of solenoids 32			32 p	2 points			
	1(P), 3/5(E) port	C8, N9	C10, N11	C12, N11	C12, N11,03		
Port size	4(A) 2(B) nort	C3, C4, C6	C4, C6, C8	C6, C8, C10	C8, C10, C12		
	4(A), 2(B) port	N1, N3, N7	N3, N7, N9	N7, N9, N11	N9, N11, 02, 03		

Flow Characteristics

Tion onal action on the same of the same o									
_	Port	size			Flow chai	racteristics	cteristics		
Model	1, 5, 3	4, 2		1→4/2 (P→A/B)			4/2→3/5 (A/B→E)		
	(P,EA,EB)	(A,B)	C[dm ³ /(s·bar)]	b	Cv	C[dm ³ /(s·bar)]	b	Cv	
SS5V1-10	C8	C6	0.98	0.26	0.24	1.1	0.35	0.28	
SS5V2-10	C10	C8	2.1	0.20	0.46	2.4	0.18	0.48	
SS5V3-10	C12	C10	4.2	0.22	0.91	4.3	0.21	0.93	
SS5V4-10	C12	C12	6.2	0.19	1.3	7.0	0.18	1.6	

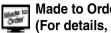
Note) The value is for manifold base with 5 stations and individually operated 2 position type.

Enclosure of Manifold Variations (Common for cassette base and tie-rod base)

Enclosure of marmola variations (common for cassette base and the roa base)					
Series	Enclosure (Based on IEC60529)				
EX500 Gateway System Serial Transmission System	IP67 *				
EX250 Integrated Type (for I/O) Serial Transmission System	IP67 (partly IP40)				
EX126 Integrated Type (for output) Serial Transmission System	IP67				
EX120 Integrated Type (for output) Serial Transmission System	IP20				
Circular connector	IP67				
D-sub connector	Dusttight (IP40)				
Flat ribbon cable	Dusttight (IP40)				

^{*} Enclosure of a gateway unit and input manifold is IP65.

Series SV Solenoid Valve Specifications



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

JIS Symbol

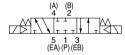
2 position single solenoid



2 position double solenoid



3 position closed center



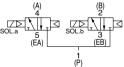
3 position exhaust center



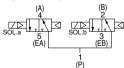
3 position pressure center



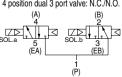
4 position dual 3 port valve: N.C./N.C.



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			0.15 to 0.7	
pressure range	2 position	on double	0.1 to 0.7	
(MPa)	, a position		0.2 to 0.7	
External pilot			-100 kPa to 0.7	
Operating pressure range 2 position single, (MPa) 3 position		on single, double on	0.25 to 0.7	
		nperature (°C)	-10 to 50 (No freezing. Refer to page 5.)	
Max. operating frequency (Hz) 2 position single, double 4 position dual 3 port valve 3 position		on single, double on dual 3 port valve	5	
		on	3	
Manual override			Non-locking push type	
			Push-turn locking slotted type	
Pilot exhaust	method	Internal pilot	Common exhaust type for main and pilot valve	
		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 voltage			24 VDC, 12 VDC	
Allowable voltage fluctuation		ctuation	±10% of rated voltage	
Power consumption			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