

EX120 Dedicated Output Serial Wiring Series SV

How to Order

Series

1	SV1000
2	SV2000
3	SV3000
4	SV4000

Mounting

Nil	Direct mount
D	DIN rail mount (with DIN rail)
D0 ^{Note)}	DIN rail mount (without DIN rail)
D3	For 3 stations
:	:
D16	For 16 stations

Note) In case of D0, only DIN rail fittings are attached.

When a DIN rail longer than the specified stations is required. (Specify a rail longer than the standard length.)

Tie-rod base
SS5V 1 — 10S3 A D — 05 U

Cassette base
SS5V 1 — 16S3 A D — 05 U

Series

1	SV1000
2	SV2000

SI unit specification

Symbol	Specification
0	Without SI unit
A*	General purpose type: Series EX300
B	Mitsubishi Electric Corporation: MELSECNET/MINI-S3 Data Link System
C	OMRON Corporation: SYSBUS Wire System
D	SHARP Corporation: Satellite I/O Link System
E	Matsushita Electric Works: MEWNET-F System
F1	NKE Corporation: Uni-wire System (16 outputs)
G	Rockwell Automation: Remote I/O (RIO) System
H	NKE Corporation: Uni-wire H System
J1	SUNX Corporation: S-LINK System (16 outputs)
J2	SUNX Corporation: S-LINK System (8 outputs)
K	Fuji Electric Co., Ltd.: T Link Mini System
Q	DeviceNet, OMRON Corporation: CompoBus/D
R1	OMRON Corporation: CompoBus/S (16 outputs)
R2	OMRON Corporation: CompoBus/S (8 outputs)
U	JEMANET (JPCN-1)
V	Mitsubishi Electric Corporation: CC-Link

Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring specification ^{Note 1)}
:	:	
08	8 stations	Specified layout ^{Note 2)} (Up to 16 solenoids possible.)
02	2 stations	
:	:	
16	16 stations	

DIN rail length

Nil	Standard length	
3	For 3 stations	Specify a rail longer than the standard length.
:	:	
16	For 16 stations	

P, E port position

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 16 stations)

SI unit specification

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U	JEMANET (JPCN-1)
V	Mitsubishi Electric Corporation: CC-Link

Supply/Exhaust block assembly specification

Nil	Internal pilot specification
S	Internal pilot/Built-in silencer
R	External pilot specification
RS	External pilot/Built-in silencer

PROFIBUS protocol SI manifolds: Order manifold and SI unit separately. SMC will supply manifold assembly with SI unit.

SI unit part numbers

Symbol	Specification	For SS5V□-□□S3
A*	General purpose: Series EX300	EX320-S001
B	Mitsubishi Electric Corporation: MELSECNET/MINI-S3 Data Link System	EX120-SMB1
C	OMRON Corporation: SYSBUS Wire System	EX120-STA1
D	SHARP Corporation: Satellite I/O Link System	EX120-SSH1
E	Matsushita Electric Works: MEWNET-F System	EX120-SPA1
F1	NKE Corporation: Uni-wire System (16 outputs)	EX120-SUW1
G	Rockwell Automation: Remote I/O (RIO) System	EX120-SAB1

Symbol	Specification	For SS5V□-□□S3
H	NKE Corporation: Uni-wire H System	EX120-SUH1
J1	SUNX Corporation: S-LINK System (16 outputs)	EX120-SSL1
J2	SUNX Corporation: S-LINK System (8 outputs)	EX120-SSL2
K	Fuji Electric Co., Ltd.: T Link Mini System	EX120-SFU1
Q	DeviceNet, OMRON Corporation: CompoBus/D	EX120-SDN1
R1	OMRON Corporation: CompoBus/S (16 outputs)	EX120-SCS1
R2	OMRON Corporation: CompoBus/S (8 outputs)	EX120-SCS2
U	JEMANET (JPCN-1)	EX120-SJN1
V	Mitsubishi Electric Corporation: CC-Link	EX120-SMJ1

* For the general purpose type, a transmission unit is required on the CPU side.

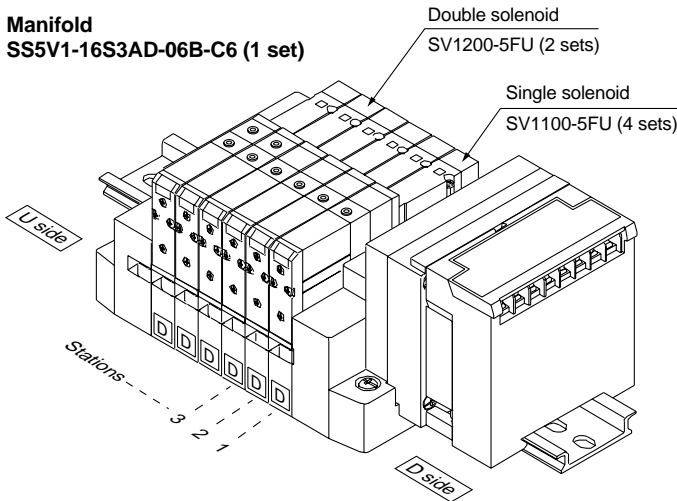
* Refer to pages 34 through 36 for terminal LED descriptions and cable wiring, etc., for each SI unit.

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How to Order Manifold Assemblies (Order Example)

Example (SV1000)

Manifold
SS5V1-16S3AD-06B-C6 (1 set)



SS5V1-16S3AD-06B-C6 1 set (manifold part no.)
* SV1100-5FU 4 sets (single solenoid part no.)
* SV1200-5FU 2 sets (double solenoid part no.)

How to Order Solenoid Valves

SV 1 1 0 0 [] [] - 5 F [] [] []

Series

1	SV1000
2	SV2000
3	SV3000
4	SV4000

Type of actuation

1	2 position single solenoid
2	2 position double solenoid
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center
A	4 position dual 3 port valve: N.C./N.C.
B	4 position dual 3 port valve: N.O./N.O.
C	4 position dual 3 port valve: N.C./N.O.

* 4 position dual 3 port valves are applicable to series SV1000 and SV2000 only.

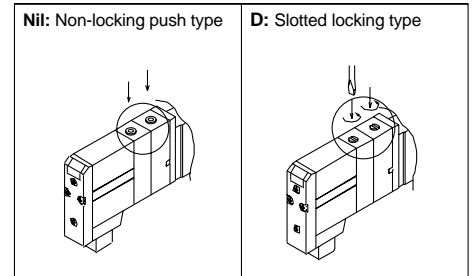
Pilot specification

Nil	Internal pilot
R	External pilot

* External pilot specification is not available for 4 position dual 3 port valves.

Note) Available with manifold block for station additions. Refer to pages 77 and 81.

Manual override



Light/Surge voltage suppressor

U	With light and surge voltage suppressor
R	With surge voltage suppressor

Rated voltage

5	24VDC
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Back pressure check valve

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 center.

* Effective area of the built-in back pressure check valve type is reduced approximately 20%.

A, B port size (metric)

Symbol	A, B port	P, E port	Applicable series
C3	ø3.2 One-touch fitting	ø8 One-touch fitting	SV1000
C4	ø4 One-touch fitting		
C6	ø6 One-touch fitting		
C4	ø4 One-touch fitting	ø10 One-touch fitting	SV2000
C6	ø6 One-touch fitting		
C8	ø8 One-touch fitting		
C6	ø6 One-touch fitting	ø12 One-touch fitting	SV3000
C8	ø8 One-touch fitting		
C10	ø10 One-touch fitting		
C8	ø8 One-touch fitting	ø12 One-touch fitting	SV4000
C10	ø10 One-touch fitting		
C12	ø12 One-touch fitting		
02	Rc 1/4	Rc 3/8	SV4000
03	Rc 3/8		
02F	G 1/4		
03F	G 3/8	G 3/8	
M	A, B ports mixed		

A, B port size (inch)

Symbol	A, B port	P, E port	Applicable series
N1	ø1/8" One-touch fitting	ø5/16" One-touch fitting	SV1000
N3	ø5/32" One-touch fitting		
N7	ø1/4" One-touch fitting		
N3	ø5/32" One-touch fitting	ø3/8" One-touch fitting	SV2000
N7	ø1/4" One-touch fitting		
N9	ø5/16" One-touch fitting		
N7	ø1/4" One-touch fitting	ø3/8" One-touch fitting	SV3000
N9	ø5/16" One-touch fitting		
N11	ø3/8" One-touch fitting		
N9	ø5/16" One-touch fitting	ø3/8" One-touch fitting	SV4000
N11	ø3/8" One-touch fitting		
02N	NPT 1/4		
03N	NPT 3/8	NPT 3/8	SV4000
02T	NPTF 1/4		
03T	NPTF 3/8		
M	A, B ports mixed		

* In case of mixed specification (M), indicate separately on a manifold specification sheet.