

Series SV1000 Manifold

Individual wiring for D-sub connector

SS5V1-X20

SV1000-X7

SMC CORPORATION
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Tokyo 105-0004, JAPAN
URL: <http://www.smcworld.com>

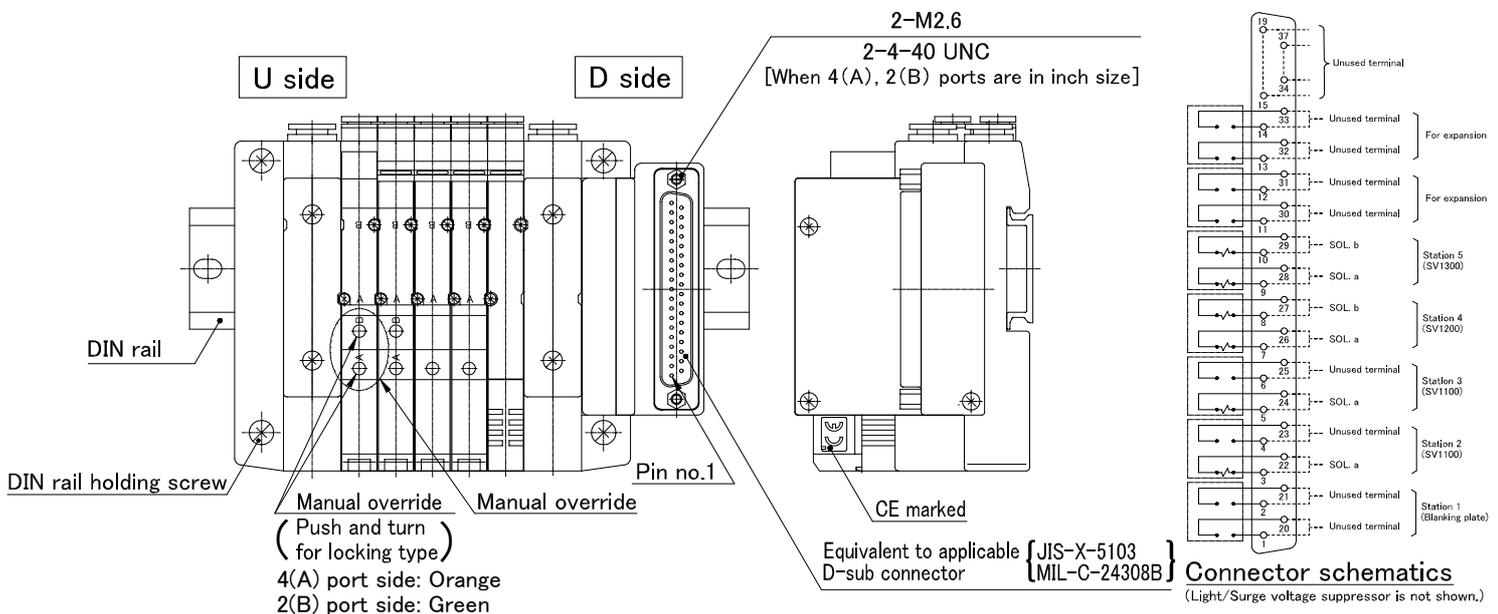
Application: Ideal for SV series compatible with D-sub connector that requires individual wiring.

Individual wiring specification allows operation of the valve under the following circumstances.

- 1) When all valves stop operating due to the influence of interlock circuit associated with common wiring.
- 2) A system does not allow common wiring.

Feature 1: Individual wiring compatible with D-sub connector (37 pins) (Refer to the connector schematics below.)

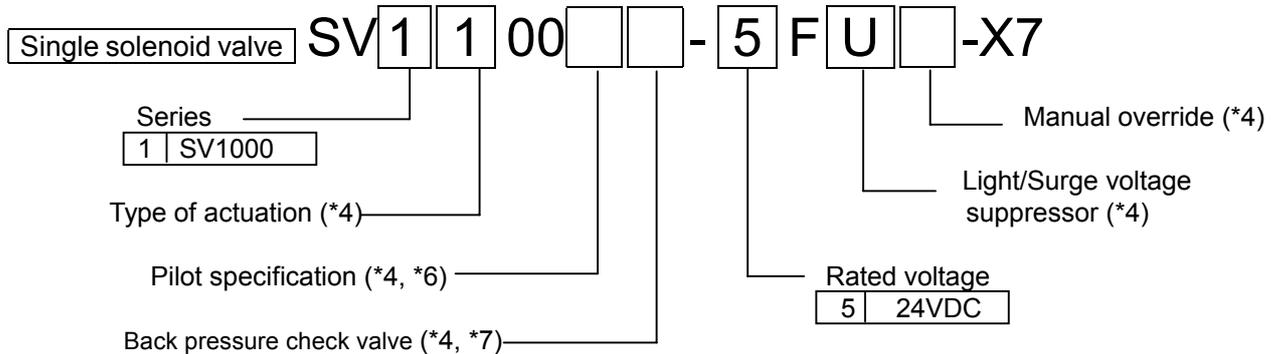
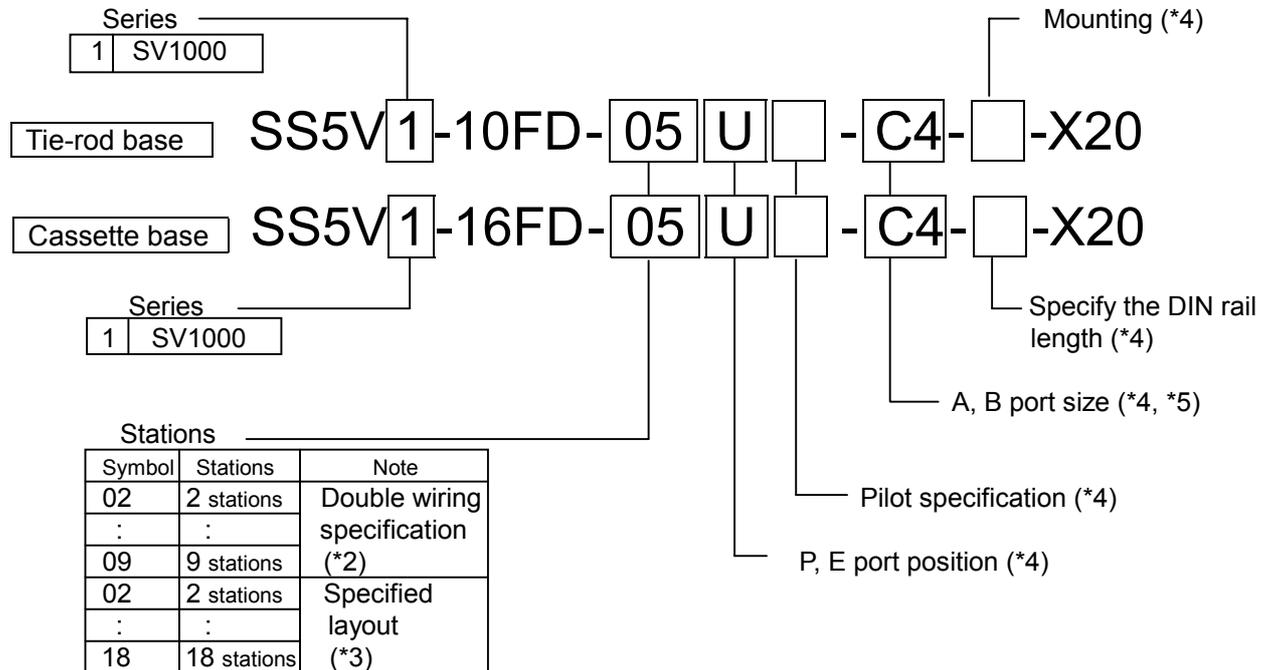
Feature 2: CE marked



Specifications

Specifications are the same as the standard SV series except for electric wiring.
Refer to our Best Pneumatics general catalog for details.

How to Order (*1)

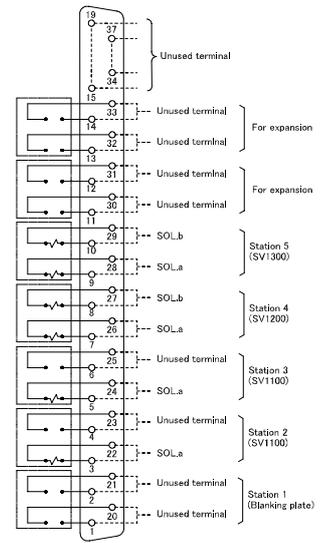
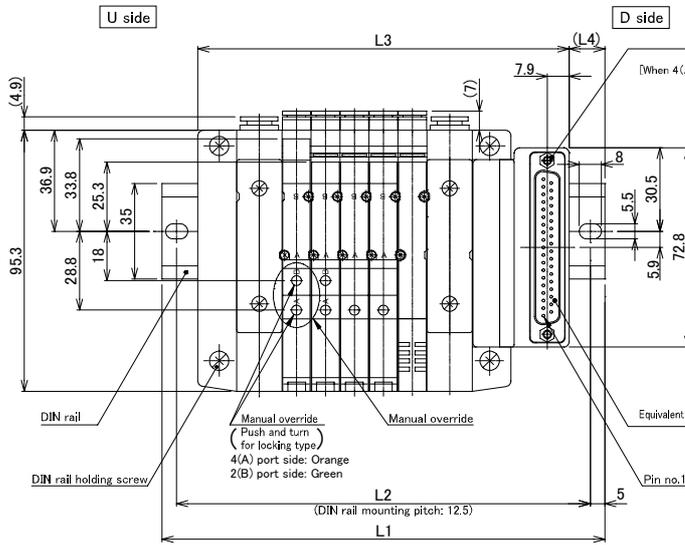
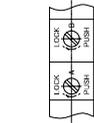
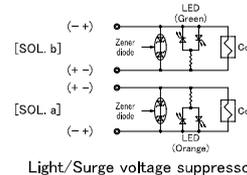
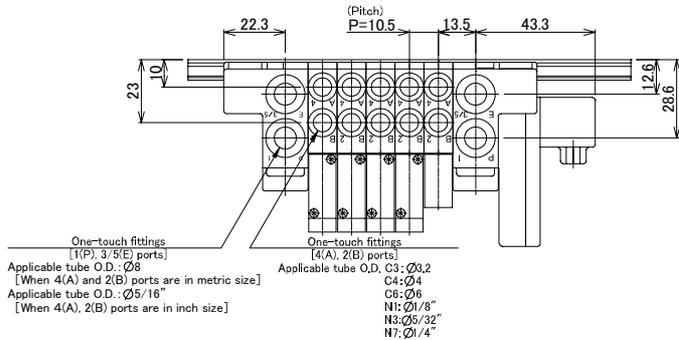


- *1) The product with the above manifold part number will be shipped without its valve and blanking plate assembly mounted on the manifold.
A single solenoid valve -X7 is a designated valve for the manifold part number -X20.
- *2) Double wiring specification: Single and double 3-/4-position solenoid valves can be used on all manifold stations. When a single solenoid is used, there will be an open (unused) control signal. Choose a specified layout to avoid the unused signal number.
- *3) Specified layout: Indicate the wiring specification on a manifold specification sheet. (Up to 18 solenoids are available.)
Note that double 3-/4-position valves cannot be used where single solenoid wiring has been specified. (The manifold valve specification sheet is included in the SV catalog for your convenience.)
- *4) The ordering format is the same as that of the standard model. Refer to the how-to-order section of Series SV D-sub connector on pages 68 and 69 in our Best Pneumatics general catalog.
- *5) X and PE port sizes for external pilot specification (R and RS) are Ø4 in metric size and Ø3.8" in inch size.
- *6) The external pilot specification is not available for 4-position dual 3-port valve.
- *7) A back pressure check valve does not come with 3-position closed center and 3-position pressure center.

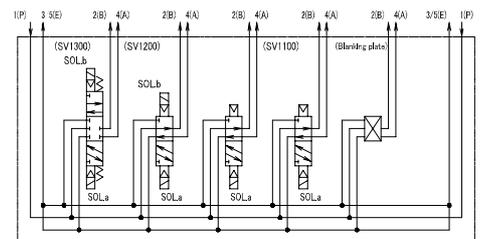
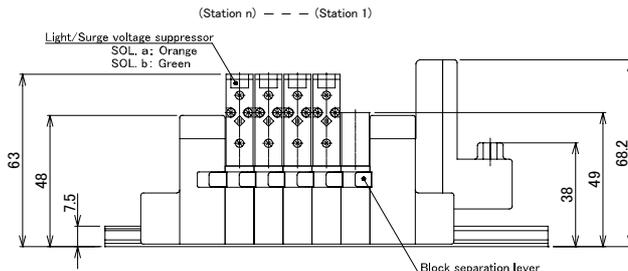
Dimensions: mm

The dimensions shown below are for the part no. SS5V1-16FD-05B-N7-X20 (Series SV1000 with double wiring specification (*8)).

*8) Refer to the type of actuation and Note*2) in the How to Order section for double wiring specification.



Connector schematics (Light/Surge voltage suppressor is not shown.)



Pneumatic circuit

L dimensions: mm

Stations: n	2	3	4	5	6	7	8	9
L1	135.5	148	148	160.5	173	185.5	198	210.5
L2	125	137.5	137.5	150	162.5	175	187.5	200
L3	103.1	113.6	124.1	134.6	145.1	155.6	166.1	176.6
L4	16.2	17.2	12	13	14	15	16	17

n: Stations

L dimensions: mm

Stations: n	10	11	12	13	14	15	16	17	18
L1	210.5	223	235.5	248	260.5	273	273	285.5	298
L2	200	212.5	225	237.5	250	262.5	262.5	275	287.5
L3	187.1	197.6	208.1	218.6	229.1	239.6	250.1	260.6	271.1
L4	11.7	12.7	13.7	14.7	15.7	16.7	11.5	12.5	13.5

n: Stations

(Refer to the notes on the following page.)

Note 1: Manifolds with 10 to 18 stations are available only when the total number of solenoids is 18 or less.

The allocation of D-sub connector to each solenoid valve should be specified in the wiring specification section on the manifold specification sheet.

Note 2: A spare lead wire to expand up to two stations is included in the U-side SUP/EXH end block assembly of the double wiring manifold whose stations is less than the maximum (9 stations).

To specify the wiring using a manifold valve specification sheet, 2 additional stations for an expansion, but less than the maximum solenoid number, can be indicated.

Part no. for applicable manifold block assembly

Series	Base type	Part no. for manifold block assembly	Note
SV1000	Cassette base	SV1000-50-9A-□□	C3: With Ø3.2 One-touch fitting C4: With Ø4 One-touch fitting C6: With Ø6 One-touch fitting
	Tie-rod base	SV1000-50-17A-□□	N1: With Ø1/8" One-touch fitting N3: With Ø5/32" One-touch fitting N7: With Ø 1/4" One-touch fitting (A tie-rod and gasket for expanding stations are included.)

Note 3: Manifold part number should be specified separately since the solenoid valve and blanking plate assembly are not mounted on the manifold at the time of shipment.

(Refer to our Best Pneumatics general catalog for details.)

Series	Blanking plate assembly
SV1000	SV1000-67-1A (with screw, gasket)



Caution

To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" general catalog before use.