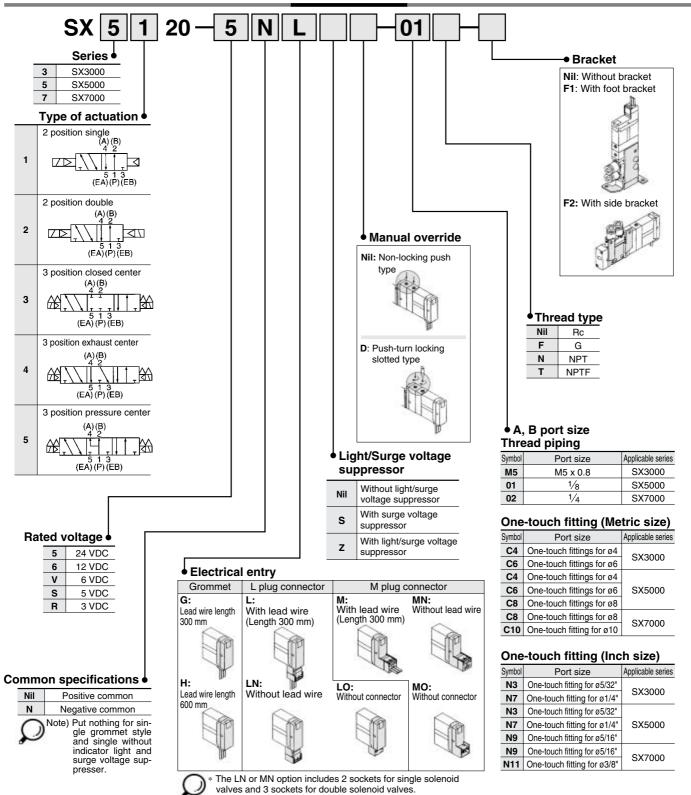


How to Order





Specifications

Se	ries	SX3000	SX5000	SX7000	
Fluid		Air			
Internal pilot	2 position single		0.15 to 0.7		
Operating pressure range	2 position double		0.1 to 0.7		
(MPa)	3 position		0.2 to 0.7		
Ambient and fluid temp	perature (°C)		Max. 50		
Max. operating	2 position single, double	10	5	5	
frequency (Hz)	3 position	3	3	3	
Manual override		Non-locking push type, Push-turn locking slotted type			
Pilot exhaust method		Common exhaust type for main and pilot valve			
Lubrication		Not required			
Mounting orientation		Unrestricted			
Impact/Vibration resist	ance (m/s²) ^{Note)}	150/30			
Enclosure			Dusttight		
15% SALES		•			

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 resistance: 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)

SV

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SY

SYJ



Made to Order Specifications (For details, refer to pages 1-6-124 to 1-6-138.)

Solenoid Specifications

Electrical entry		Grommet (G)/(H), L plug connector (L), M plug connector (M)	
Coil rated voltage (V)	DC	24, 12, 6, 5, 3	
Allowable voltage fluctu	ation	±10% of rated voltage	
Power consumption (W)	DC	0.6 (With indicator light: 0.65)	
Surge voltage suppress	or	Diode	
Indicator light		LED	

Response Time



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

SX3000

	Response time (ms) (at the pressure of 0.5 MPa)				
Type of actuation		With light/surge voltage suppressor			
	voltage suppressor	S, Z type			
2 position single	12 or less	15 or less			
2 position double	10 or less	13 or less			
3 position	15 or less	20 or less			

SX5000

	Response time (ms) (at the pressure of 0.5 MPa)				
Type of actuation		With light/surge voltage suppressor			
	voltage suppressor	S, Z type			
2 position single	19 or less	26 or less			
2 position double	18 or less	22 or less			
3 position	32 or less	38 or less			

SX7000

	Response time (ms) (at the pressure of 0.5 MPa)				
Type of actuation		With light/surge voltage suppressor			
	voltage suppressor	S, Z type			
2 position single	31 or less	38 or less			
2 position double	27 or less	30 or less			
3 position	50 or less	56 or less			

Flow Characteristics/Weight

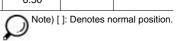
Model/Series SX3000

			Dort	size			Flow char	acteristics			١٨/-:	alba (ar)
Valve model		oe of	Port	size	1 –	\rightarrow 4/2 (P \rightarrow A	(B)	4/2 →	$5/3 (A/B \rightarrow E)$	EA/EB)	vvei	ght (g)
valve model	actı	uation	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	Grommet	L plug connector M plug connector
	2 position	Single			0.61	0.44	0.16	0.64	0.45	0.18	62	63
	2 position	Double			0.61	0.44	0.16	0.04	0.45	0.16	70	72
		Closed center			0.48	0.46	0.13	0.47	0.43	0.13		
SX3□20-□-M5	3 position	Exhaust center		M5 x 0.8	0.47	0.42	0.13	0.47 [0.44]	0.41 [0.37]	0.13 [0.12]	73	74
		Pressure center			0.50 [0.41]	0.48 [0.35]	0.15 [0.11]	0.47	0.43	0.13		
	2 position	Single			0.72	0.29	0.18	0.64	0.34	0.17	72	73
	2 position	Double		C4	0.72	0.29	0.10	0.04	0.54	0.17	80	81
			M5 x 0.8 (One-touch)	0.59	0.28	0.15	0.59	0.30	0.15			
SX3□20-□-C4	3 position			.8 Cone-touch (fitting for Ø4)	0.63	0.35	0.16	0.42 [0.41]	0.34 [0.37]	0.11 [0.11]	82	84
		Pressure center			0.76 [0.46]	0.42 [0.34]	0.21 [0.12]	0.59	0.29	0.15		
	2 position	Single			0.76	0.30	0.19	0.65	0.39	0.17	68	69
	2 position	Double			0.70	0.50	0.19	0.03	0.59	0.17	76	77
		Closed center		C4	0.76	0.55	0.24	0.60	0.33	0.16		
SX3□20-□-C6	3 position	Exhaust center		(One-touch) (fitting for Ø6)	0.65	0.32	0.16	0.64 [0.42]	0.31 [0.36]	0.17 [0.11]	78	80
	o position	Pressure center			0.77 [0.49]	0.34 [0.43]	0.21 [0.15]	0.61	0.34	0.16		

Note) []: Denotes normal position.

Model/Series SX5000

	- , Port s		oizo	Flow characteristics						W : 1.7)		
Value medal	Тур	oe of	Port	size	1 –	→ 4/2 (P → A	(B)	4/2 →	5/3 (A/B → E	EA/EB)	Wei	ght (g)
Valve model	acti	uation	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	Grommet	L plug connector M plug connector
	2 position	Single			1.9	0.35	0.49	2.4	0.39	0.61	75	76
	2 position	Double									83	84
		Closed center			1.7	0.43	0.45	1.8	0.35	0.46		
SX5□20-□-01	3 position			Rc1/8	1.5	0.44	0.41	2.5 [1.5]	0.32 [0.43]	0.59 [0.40]	88	90
		Pressure center			2.2 [0.91]	0.46 [0.58]	0.61 [0.28]	1.8	0.38	0.46		
	0	Single			0.75	0.43	0.00	0.85	0.64	0.30	83	84
	2 position	Double	-		0.75	0.43	0.20	0.65	0.04		91	92
		Closed center		I	0.74	0.40	0.19	0.84	0.57	0.28		
SX5□20-□-C4	3 position	Exhaust center		0.75	0.36	0.19	0.84 [0.84]	0.64 [0.53]	0.30 [0.27]	96	97	
	Pressure center _	D 1/		0.78 [0.71]	0.44 [0.37]	0.21 [0.18]	0.84	0.57	0.27			
		Single Rc 1/4	HC 1/4		1.5	0.33	0.33	2.0	0.37	0.52	78	79
	2 position	Double									86	87
		Closed center		C6	1.3	0.31	0.33	1.6	0.32	0.39		
SX5□20-□-C6	3 position	Exhaust center		One-touch (fitting for ø6)	1.3	0.33	0.33	1.8 [1.4]	0.35 [0.37]	0.44 [0.35]	91	92
	<u> </u>	Pressure center		,	1.7 [0.80]	0.31 [0.47]	0.42 [0.23]	1.7	0.33	0.44		
	0	Single	1		1.9	0.21	0.45	2.3	0.29	0.57	79	80
	2 position	Double			1.9	0.21	0.43	2.5	0.29	0.57	87	88
SX5□20-□-C8		Closed center		C8	1.6	0.29	0.39	1.7	0.38	0.46		
	3 position	Exhaust center		One-touch fitting for ø8	1.4	0.38	0.39	2.0 [1.5]	0.37 [0.41]	0.52 [0.43]	92	93
		Pressure center		·	2.2 [1.6]	0.32 [0.44]	0.56 [0.44]	1.8	0.41	0.50		



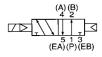


Construction

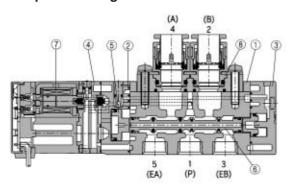
Series SX

JIS Symbol

2 position single

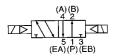


2 position single

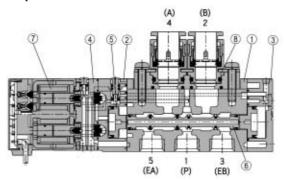


JIS Symbol

2 position double



2 position double



How to Order Connector Assembly for L/M Plug Connector

Positive common specifications

SX100-40-4S For single solenoid: For double solenoid,

3 position:

SX100-40-4D

Negative common specifications SX100-41-4S

For single solenoid: For double solenoid,

SX100-41-4D-

3 position:

Lead wire length •

Nil	300 mm
6	600 mm
10	1000 mm
15	1500 mm
20	2000 mm
25	2500 mm
30	3000 mm
50	5000 mm

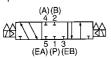


For detailed information on connector assembly, refer to page 1-6-8.

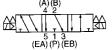
3 position closed center/exhaust center/pressure center

JIS Symbol

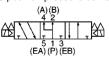
3 position closed center

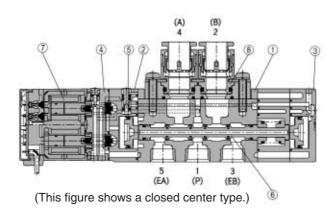


3 position exhaust center (A) (B)



3 position pressure center





Component Parts

No.	Description	Material	Note
1	Body	Aluminum die-casted (SX3000: Zinc die-casted)	White
2	Adapter plate	Resin	White
3	End plate	Resin	White
4	Pilot body	Resin	White
(5)	Piston	Resin	_
6	Spool valve assembly	Aluminum, HNBR	_
7	Molded coil	Resin	Gray

Replacement Parts

No.	Description	Part no.			
8	Port block assembly	See "How to Order Port Block Assembly" on page 1-6-7			

Bracket Assembly No.

Description	Part no.		
Bracket (For F1)	SX \$\frac{3}{7}\$000-16-1A (With mounting screw)		
Bracket (For F2)	SX \$\frac{3}{7}\$000-16-2A (With mounting screw)		



SV

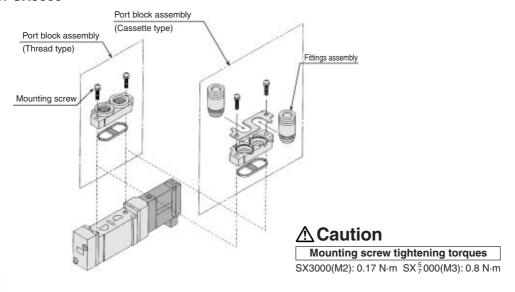
SZ

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How to Change Port Block Assembly

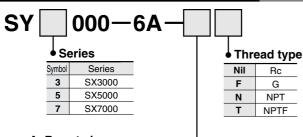
The cylinder port block assembly can easily be changed. When changing block assembly, correct screw torque must be achieved. Cut off the air supply to confirm that no air is left in the manifold before starting operation. Remaining air or inappropriate installation may cause an accident.

● For SX5000



* Refer to "How to Order Port Block Assembly" below for parts no.

How to Order Port Block Assembly



A, B port size • Thread piping

Symbol	Port size	Applicable series
M5	M5 x 0.8	SX3000
01	1/8	SX5000
02	1/4	SX7000

One-touch fitting (Metric size)

- · · · · · · · · · · · · · · · · · · ·							
Symbol	Port size	Applicable series					
C4	One-touch fitting for ø4	CV2000					
C6	One-touch fitting for ø6	SX3000					
C4	One-touch fitting for ø4						
C6	One-touch fitting for ø6	SX5000					
C8	One-touch fitting for ø8						
C8	One-touch fitting for ø8	0.77000					
C10	One-touch fitting for ø10 SX700						

One-touch fitting (Inch size)

	,
Port size	Applicable series
One-touch fitting for ø5/32"	CV2000
One-touch fitting for ø1/4"	SX3000
One-touch fitting for ø5/32"	
One-touch fitting for ø1/4"	SX5000
One-touch fitting for ø5/16"	
One-touch fitting for ø5/16"	SX7000
One-touch fitting for ø3/8"	5A/000
	Port size One-touch fitting for ø5/32" One-touch fitting for ø1/4" One-touch fitting for ø5/32" One-touch fitting for ø1/4" One-touch fitting for ø5/16" One-touch fitting for ø5/16"

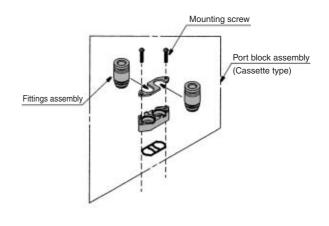
* Only replacement of the fittings assembly is possible.

Metric size

One-touch fitting for ø4	VVQ1000-50A-C4
One-touch fitting for ø6	VVQ1000-50A-C6
One-touch fitting for ø4	VVQ1000-51A-C4
One-touch fitting for ø6	VVQ1000-51A-C6
One-touch fitting for ø8	VVQ1000-51A-C8
One-touch fitting for ø8	VVQ2000-51A-C8
One-touch fitting for ø10	VVQ2000-51A-C10
	One-touch fitting for ø6 One-touch fitting for ø4 One-touch fitting for ø6 One-touch fitting for ø8 One-touch fitting for ø8

Inch size

SX3000	One-touch fitting for ø5/32"	VVQ1000-50A-N3
583000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/32"	VVQ1000-51A-N3
SX5000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/16"	VVQ1000-50A-N9
SX7000	One-touch fitting for ø5/16"	VVQ2000-51A-N9
587000	One-touch fitting for ø3/8"	VVQ2000-51A-N11



SV

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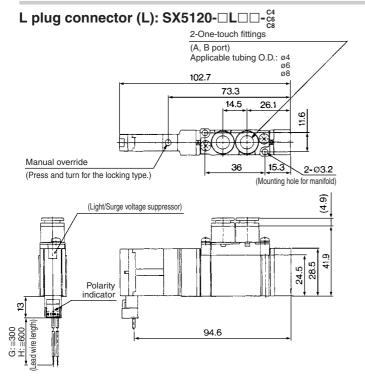
SY

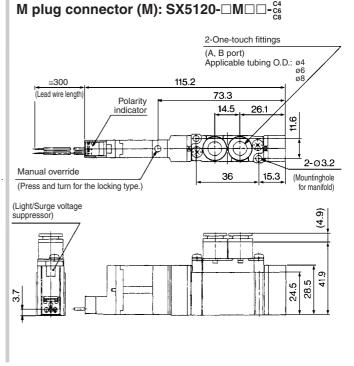
SYJ

SX

Dimensions: Series SX5000

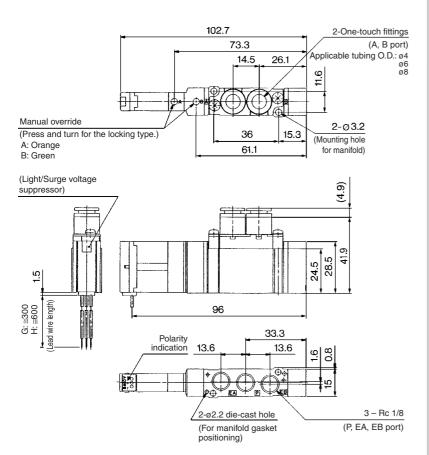
2 position single Foot bracket SX5120-□#□□-ﷺ -F1 Grommet (G), (H): SX5120-□ G □ □ - C (-F2) 2-M3 x 0.5 thread depth 3.5 2-03.2 (For mounting bracket) (Light/Surge voltage suppressor) (Mounting hole) 16,7 (36.2)16.6 39 22 28.5 38 4.5 (37)(14.8)(2-ø3.2 mounting hole) 47 102.7 2-One-touch fittings 73.3 14.5 Applicable tubing O.D.: Ø4 Ø6 Ø8 Φ Manual override 2-Ø3.2 97.7 **③** (Press and turn for the locking type.) 36 15.3 (Mounting hole for manifold) Φ (4.9) (Light/Surge voltage suppressor) 7. (4.9)10.5 28.5 4 41.9 24.5 SX5120-□ G □ □ -01 ad wire length G: ≘300 H: ≘600 96 2-Rc1/8 16.2 33.3 Polarity (A, B port) 13.6 13.6 indication 0.8 28.5 (20) 3-Rc1/8 2-ø2.2 die-cast hole 96 (P. EA. EB port) (For manifold gasket positioning)



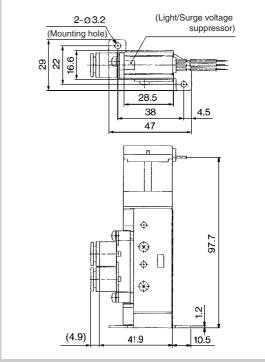


Dimensions: Series SX5000

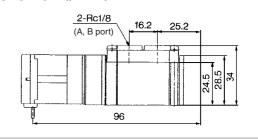
2 position double Grommet (G), (H): SX5220-□^G_H□□-^{C4}_{CS}

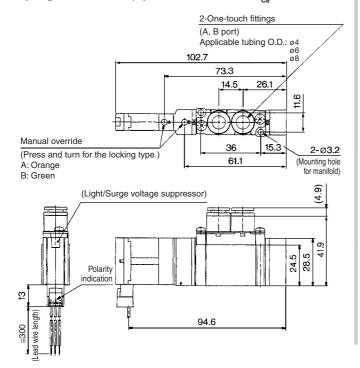


Foot bracket SX5220-□ H □ □ - C4 - F1

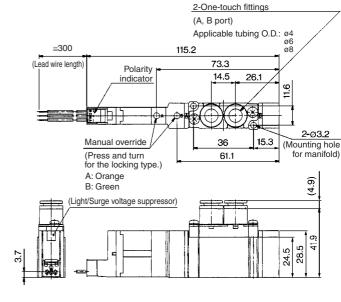


SX5220-□ G □ □ -01





M plug connector (M): SX5220-□M□□-cs



SV

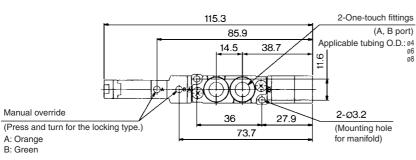
SZ

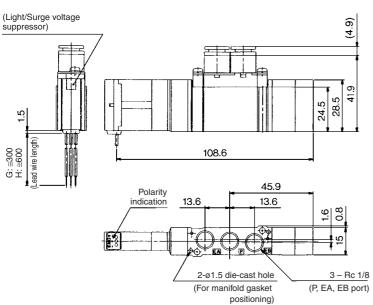
SY

SYJ

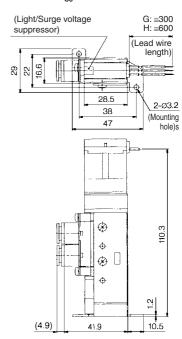
Series SX3000/5000/7000

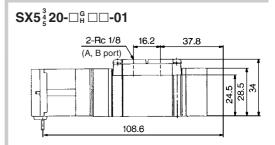
3 position closed center/exhaust center/pressure center Grommet (G), (H): SX5 $_{\frac{5}{4}}^{3}$ 20- \square_{H}^{G} \square - \square_{C8}^{C4}



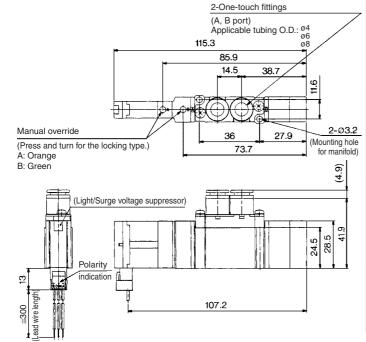


Foot bracket SX5 ³/₄ 20-□ ^G_H □ □ - ^{C4}/_{C6} -F1

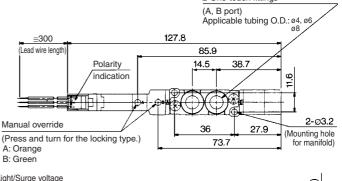


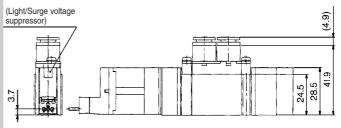


L plug connector (L): SX5\(\frac{3}{4}\) 20-\(\sigma\)L\(\sigma\)-\(\frac{64}{68}\)



M plug connector (M): $SX5^{3}_{5}$ 20- \square M \square - $^{C4}_{C8}$

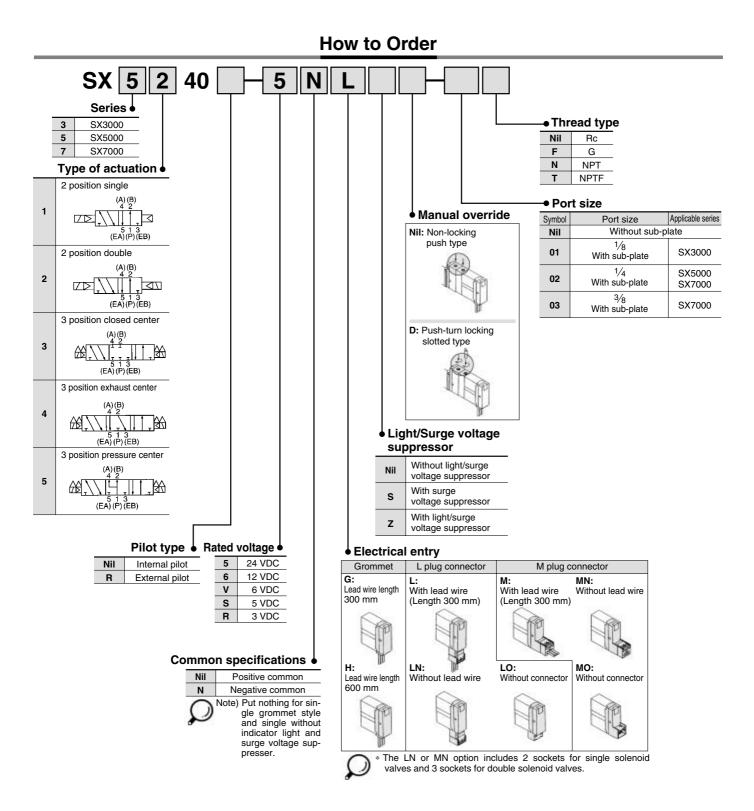






Series SX3000/5000/7000 **Base Mounted**

Valve Single Unit





Made to Order Specifications

(For details, refer to pages 1-6-124 to 1-6-138.)

Specifications

Se	ries		SX3000	SX5000	SX7000		
Fluid			Air				
Internal pilot	2 position	single		0.15 to 0.7			
Operating pressure range	2 position	double		0.1 to 0.7			
(MPa)	3 position			0.2 to 0.7			
F	Operating p	ressure range		-100 kPa to 0.7			
External pilot	Pilot	2 position single		0.25 to 0.7			
Operating pressure range (MPa)	pressure	2 position double	0.25 to 0.7				
(IVII a)	range	3 position	0.25 to 0.7				
Ambient and fluid temp	perature (°C	;)	Max. 50				
Max. operating frequency (Hz)	2 position single, double		10	5	5		
iviax. Operating frequency (Fiz)	3 position		3	3	3		
Manual override			Non-locking push	type, Push-turn lo	cking slotted type		
Dilat and and another d	Internal pilot		Common exhaust type for main and pilot valve				
Pilot exhaust method	External pilot		Pilot valve individual exhaust				
Lubrication			Not required				
Mounting orientation	Mounting orientation			Unrestricted			
Impact/Vibration resist	ance (m/s²)	Note)	150/30				
Enclosure			Dusttight				
532250	,	,					

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 resistance: 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)

Solenoid Specifications

Electrical entry		Grommet (G)/(H), L plug connector (L), M plug connector (M)				
Coil rated voltage (V)	DC	24, 12, 6, 5, 3				
Allowable voltage fluctu	ation	±10% of rated voltage				
Power consumption (W)	DC	0.6 (With indicator light: 0.65)				
Surge voltage suppress	or	Diode				
Indicator light		LED				

Response Time



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

SX3000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)					
	Without light/surge	With light/surge voltage suppressor				
	voltage suppressor	S, Z type				
2 position single	12 or less	15 or less				
2 position double	10 or less	13 or less				
3 position	15 or less	20 or less				

SX5000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)						
	Without light/surge	With light/surge voltage suppressor					
	voltage suppressor	S, Z type					
2 position single	19 or less	26 or less					
2 position double	18 or less	22 or less					
3 position	32 or less	38 or less					

SX7000

Type of actuation	Response time (ms) (at the pressure of 0.5 MPa)						
	Without light/surge	With light/surge voltage suppress					
	voltage suppressor	S, Z type					
2 position single	31 or less	38 or less					
2 position double	27 or less	30 or less					
3 position	50 or less	56 or less					



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Flow Characteristics/Weight

Model/Series SX3000

				Flow characteristics (1)						Maight (g) (2)	
Valve model	Tuno	of actuation	Port size	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			Weight (g) (2)	
	Type of actuation		Port size	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	Grommet	L plug connector M plug connector
	2 position	Single Double		1.0	0.30	0.24	1.1	0.30	0.26	100 (66) 108 (74)	101 (67) 110 (75)
	3 position	Closed center	Rc ¹ /8	0.77	0.28	0.18	0.85	0.30	0.19		
SX3□40-□-01		Exhaust center		0.73	0.31	0.18	1.1 [0.55]	0.26 [0.52]	0.24 [0.16]	111 (76)	112 (78)
		Pressure center		1.2 [0.51]	0.24 [0.45]	0.29 [0.14]	0.89	0.47	0.24		



Note 1) []: Denotes the normal position. Note 2) (): Without sub-plate.

Model/Series SX5000

	Type of actuation			Flow characteristics (1)						Maight (g) (2)	
Valve model			Port size	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			Weight (g) (2)	
			Port Size	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	b	Cv	Grommet	L plug connector M plug connector
	2 position	Single Double		2.4	0.41	0.64	2.8	0.29	0.66	136 (74) 144 (82)	137 (75) 145 (83)
		Closed center		1.8	0.47	0.50	1.8	0.40	0.47	, ,	
SX5□40-□-02	3 position	Exhaust center	Rc 1/4	1.4	0.55	0.44	3.0 [1.2]	0.33 [0.48]	0.72 [0.37]	149 (87)	151 (89)
		Pressure center		3.3 [0.84]	0.36 [0.60]	0.85 [0.28]	1.8	0.40	0.48		



Note 1) []: Denotes the normal position. Note 2) (): Without sub-plate.

Model/Series SX7000

				Flow characteristics (1)						Weight (g) (2)	
Valve model	Typo	e of actuation Port size	1 –	\rightarrow 4/2 (P \rightarrow A/	B)	$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			vveignt (g)		
	Type of actuation		FUIT SIZE	C [dm³/(s·bar)]	b	Cv	C [dm³/(s·bar)]	р	Cv	Grommet	L plug connector M plug connector
	2 position	Single Double		4.1	0.41	1.1	4.1	0.29	1.0	222 (100) 229 (107)	223 (101) 231 (109)
		Closed center		3.0	0.43	0.80	2.6	0.41	0.72		
SX7□40-□-02	3 position	Exhaust center	Rc ¹ / ₄	2.6	0.42	0.71	4.7 [1.7]	0.35 [0.48]	1.1 [0.49]	238 (116)	240 (118)
		Pressure center		5.3 [2.3]	0.39 [0.49]	1.3 [0.65]	2.2	0.49	0.63		
	2 position	Single Double		4.9	0.29	1.2	4.5	0.27	1.1	222 (100) 229 (107)	223 (101) 231 (109)
0.40 - 00		Closed center		3.0	0.40	0.80	2.6	0.45	0.73		
SX7□40-□-03	3 position	Exhaust center	Rc 3⁄8	2.6	0.42	0.71	4.8 [1.7]	0.35 [0.48]	1.1 [0.49]	238 (116)	240 (118)
		Pressure center		5.3 [2.3]	0.31 [0.51]	1.3 [0.64]	2.3	0.45	0.66		

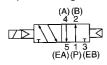


Note 1) []: Denotes the normal position. Note 2) (): Without sub-plate.

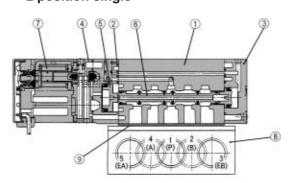
Construction

Series SX

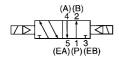
JIS Symbol 2 position single



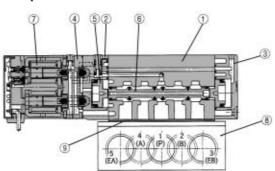
2 position single



JIS Symbol 2 position double



2 position double



How to Order Connector Assembly for L/M Plug Connector

Positive common specifications

SX100-40-4S For single solenoid: For double solenoid, SX100-40-4D 3 position:

Negative common specifications

For single solenoid: For double solenoid, 3 position:

SX100-41-4S SX100-41-4D

SV

SZ

SY

SYJ

SX

Lead wire length

Nil	300 mm
6	600 mm
10	1000 mm
15	1500 mm
20	2000 mm
25	2500 mm
30	3000 mm
50	5000 mm

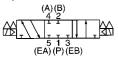


For detailed information on connector assembly, refer to page 1-6-8.

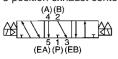
3 position closed center/exhaust center/pressure center

JIS Symbol

3 position closed center

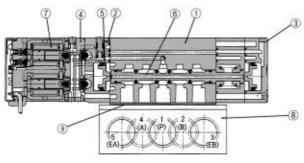


3 position exhaust center



3 position pressure center





(This figure shows a closed center type.)

Component Parts

001	omponent i arts											
No.	Description	Material	Note									
1	Body	Aluminum die-casted (SX3000: Zinc die-casted)	White									
2	Adapter plate	Resin	White									
3	End plate	Resin	White									
4	Pilot body	Resin	White									
(5)	Piston	Resin	_									
6	Spool valve assembly	Aluminum, HNBR	_									
7	Molded coil	Resin	Gray									

Replacement Parts

No.	Description		Nista		
NO.	Description	SX3 40 SX5 40		SX7□40	Note
8	Sub-plate	SY3000-27-1	SY5000-27-1	1/4 Rc: SY7000-27-1 3/8 Rc: SY7000-27-2	Aluminum die-casted
9	Gasket	SY3000-11-25	SY5000-11-15	SY7000-11-11	HNBR
_	Round head combination screw	SX3000-22-2 (M2 x 24)	M3 x 30	M4 x 35	For valve mounting (Matt nickel plated)

⚠ Caution

Mounting Screw Tightening Torques M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m



SV

SZ

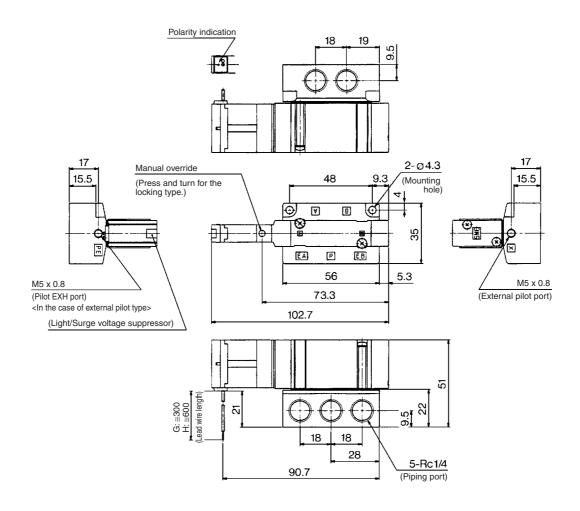
SY

SYJ

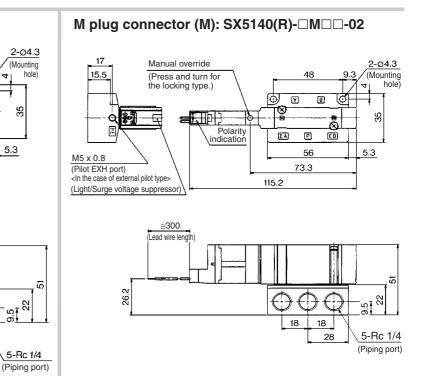
Dimensions: Series SX5000

2 position single

Grommet (G), (H): SX5140(R)-□^G □□-02



L plug connector (L): SX5140(R)-□L□□-02 2-Ø4.3 Manual override 15.5 (Press and turn for the locking type.) (Mounting hole) 0 8 A Ø 8 35 ΕÂ P EΒ 56 5.3 M5 x 0.8 (Pilot EXH port) <In the case of external pilot type> 73.3 102.7 (Light/Surge voltage suppressor) Polarity indication 5 18 18



5-Rc 1/4

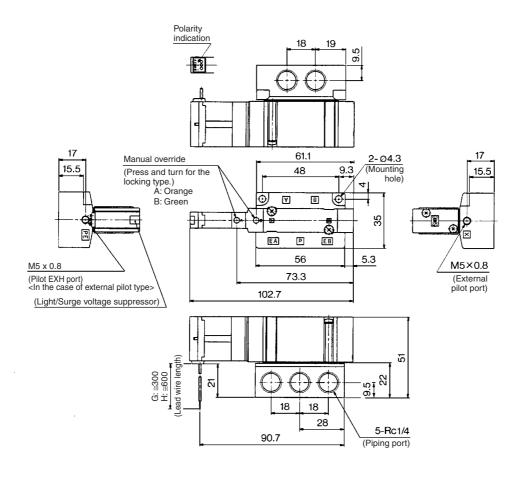
28

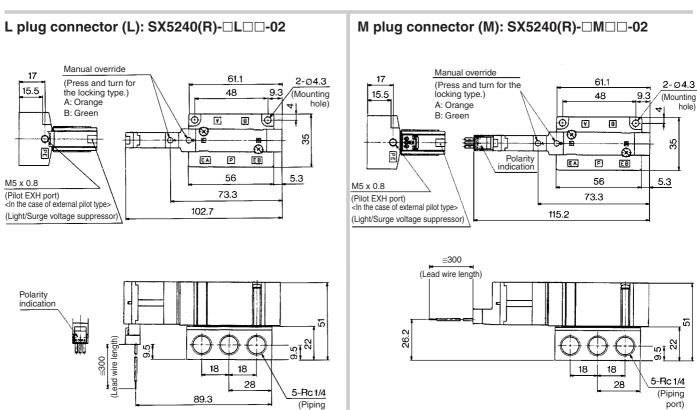
89.3

Dimensions: Series SX5000

2 position double

Grommet (G), (H): SX5240(R)-□^G_H□□-02





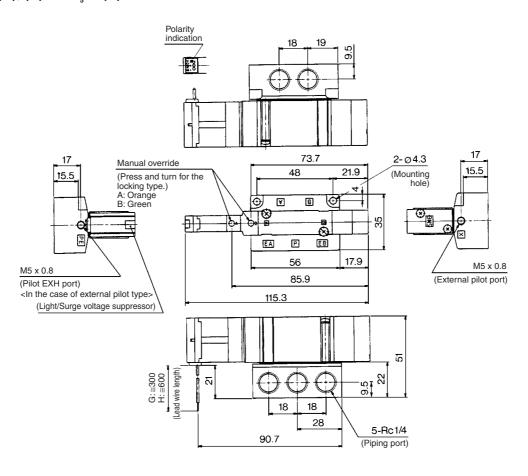
SV

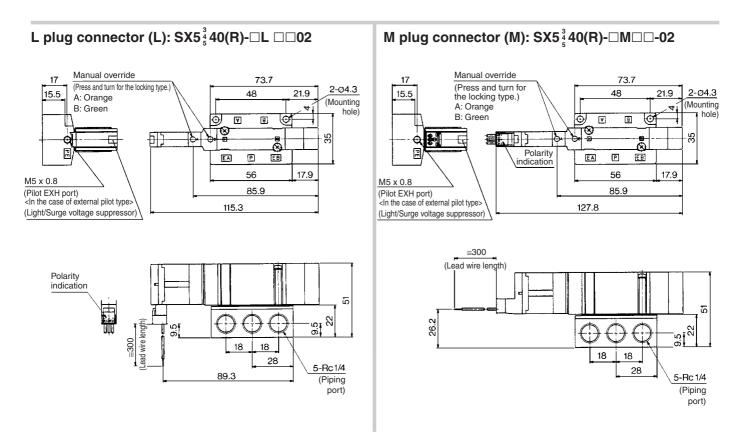
SZ

SY

SYJ

3 position closed center/exhaust center/pressure center Grommet (G), (H): SX5 $\frac{3}{4}$ 40(R)- \Box $\frac{9}{4}$ \Box -02

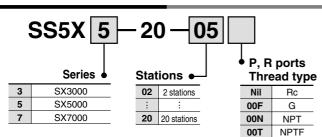




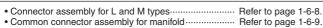
Туре 20

Series SX3000/5000/7000 Body Ported Manifold Bar Stock Type Individual Wiring

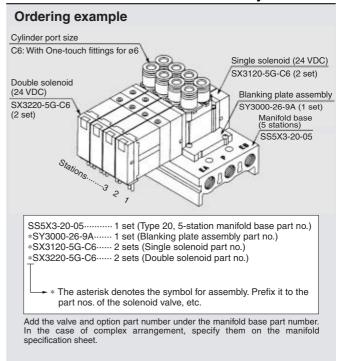
How to Order Manifold



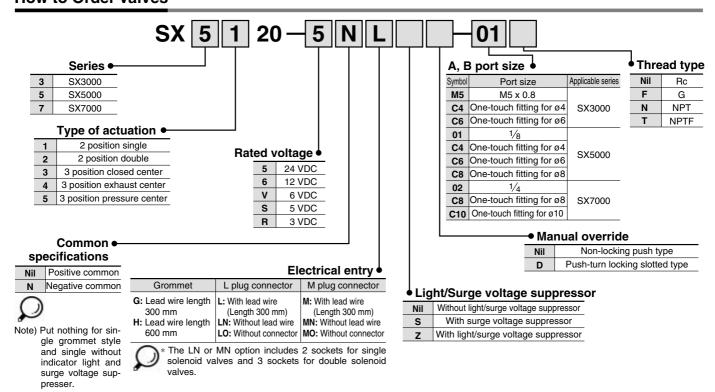




How to Order Valve Manifold Assembly



How to Order Valves



Manifold Specifications

Mo	del	SS5X3-20	SS5X5-20	SS5X7-20				
Applicat	ole valve	SX3□20	SX5□20	SX7□20				
Manifold type	old type Single base/B mount							
P (SUP)/R (I	EXH)	Common SUP/Common EXH						
Valve station	1S Note)	2 to 20 stations						
A, B port loc	ation	Valve						
P	P, EA, EB port	Rc 1/8	Rc 1/ ₄	Rc 1/ ₄				
Port size	A, B port	M5 x 0.8 C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	Rc 1/8 C4 (One-touch fitting ø4) C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	Rc 1/4 C8 (One-touch fitting for ø8) C10 (One-touch fitting for ø10)				
Manifold base weight W (g) n: Stations		W = 19n + 45	W = 43n + 77	W = 51n + 81				

Note) For more than 10 stations, supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

Flow Characteristics

	Port	cizo	Flow characteristics									
	1011	SIZE	1 →	4/2 (P → A	A/B)	$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$						
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv				
SS5X3-20	Rc 1/8	C6	0.72	0.29	0.18	0.80	0.36	0.21				
SS5X5-20	Rc 1/4	C8	1.9	0.28	0.48	2.2	0.20	0.53				
SS5X7-20	Rc 1/4	C10	3.6	0.31	0.93	3.6	0.27	0.88				

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

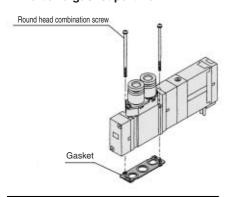
Manifold Option

■ Blanking plate assembly



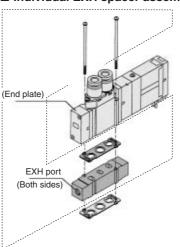
Series	Assembly part no.
SX3000	SY3000-26-9A
SX5000	SY5000-26-20A
SX7000	SY7000-26-22A

■ Bolt and gasket part no.



Series	Round head combination screw	Gasket
SX3000	SX3000-22-2 (M2 x 24)	SY3000-11-24
SX5000	M3 x 30 (Matt nickel plated)	SY5000-11-10
SX7000	M4 x 35 (Matt nickel plated)	SY7000-11-9

■ Individual EXH spacer assembly



Series	Assembly part no.	Port size
SX3000	SX3000-39-1⊪A	M5 x 0.8
SX5000	SX5000-39-1⊮A	1/8
SX7000	SX7000-39-20A	1/4

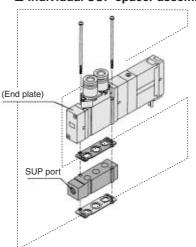
■ Plug

Inserted into an unused cylinder port and SUP/EXH ports. Purchasing order is available in units of 10 pieces.

Dimensions

Applicable fitting ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5

■ Individual SUP spacer assembly



Series	Assembly part no.	Port size
SX3000	SX3000-38-1⊮A	M5 x 0.8
SX5000	SX5000-38-1⊮A	Rc 1/8
SX7000	SX7000-38-20A	Bc 1/4

Note) The SUP port may be either on the lead wire side or on

the end plate side. (Factory assembled spacer will be shipped with the orientation shown in the figure.)

* Threa	* Thread type						
Nil Rc							
F	G						
N	NPT						
Т	NPTF						

SV

SZ

SY

SYJ

⚠ Caution

Mounting Screw Tightening Torques
M2: 0.17 N·m
M3: 0.8 N·m
M4: 1.4 N·m

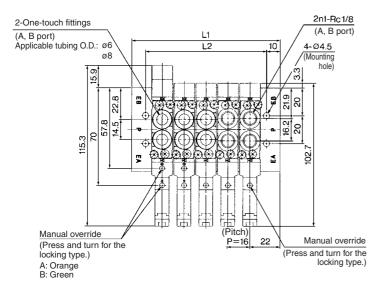
⚠ Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-44 to 1-6-46, and then mount it.



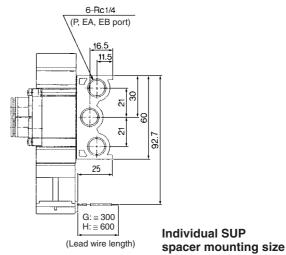
SX5000: SS5X5-20- Stations

Grommet (G)



(n) (2) (1) stations

8 56



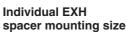
SV

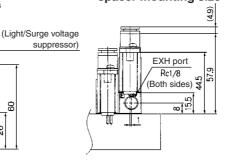
SZ

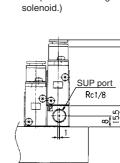
SY

SYJ

SX







(SUP port is mounted on the

(4.9)

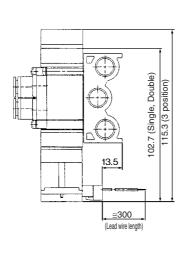
57.9

end plate side of single

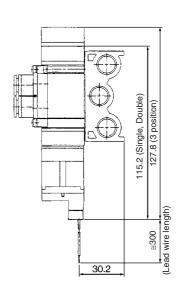
(4.9)

68.4

L plug connector (L)



M plug connector (M)



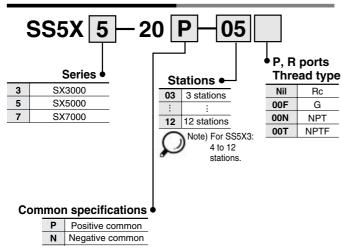
n: Stations (n1 + n2)

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	60	76	92	108	124	140	156	172	188	204	220	236	252	268	284	300	316	332	348
L2	40	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328

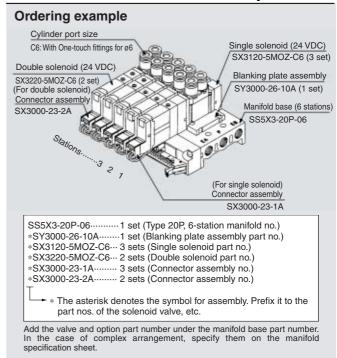


Series SX3000/5000/7000 Body Ported Manifold Bar Stock Type Flat Ribbon Cable

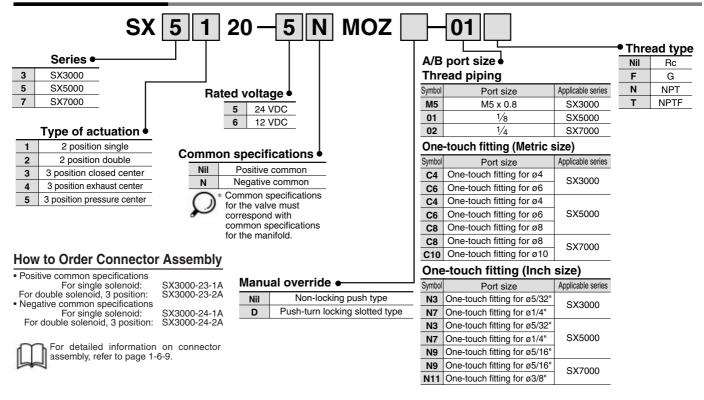
How to Order Manifold



How to Order Valve Manifold Assembly



How to Order Valves



 Multiple valve wiring simplified through the use of the flat cable connector.

• Clean appearance

In the case of a flat cable style, each valve is wired on the print board of manifold base to allow the external wiring to be piped all together with 26 pins MIL connector.



Manifold Specifications

Model		SS5X3-20P N	S5X3-20P N SS5X5-20P N				
App	olicable valve	SX3□20	SX5□20	SX7□20			
Manifold	l type	Single base/B mount					
P (SUP)	, R (EXH)	Co	ommon SUP/Common EX	XH			
Valve st	ations Note (1)	4 to 12 stations	3 to 12	stations			
A, B por	t location		Valve				
	P, EA, EB port	1/8	1/4	1/4			
Port size	A, B port	M5 x 0.8 C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)		1/4 C8 (One-touch fitting for ø8) C10 (One-touch fitting for ø10)			
Manifold base weight W (g) n: Stations		W = 19n + 45	W = 43n + 77	W = 51n + 81			
Applicable flat ribbon cable connector		Socket: 26 pins MIL with strain relief (Conforming to MIL-C-83503)					
Internal	wiring ⁽²⁾	+COM (Type 20P), -COM (Type 20N)					
Rated v	oltage	12 24 VDC					

Note 1) For more than 10 stations (more than 5 stations in case of SS5X7), supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

Note 2) The withstand voltage specification for the wiring unit section is JIS C 0704, Grade 1 or its

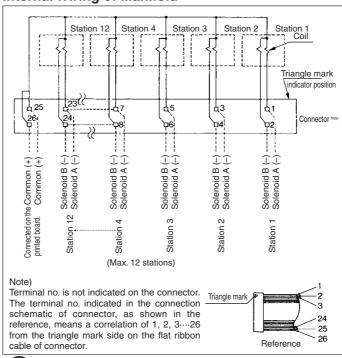
equivalent.

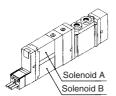
Flow Characteristics

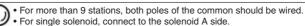
Model	Port size		Flow characteristics						
			$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			
	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv	
SS5X3-20 ^P _N	Rc 1/8	C6	0.72	0.29	0.18	0.80	0.36	0.21	
SS5X5-20 ^P _N	Rc 1/4	C8	1.9	0.28	0.48	2.2	0.20	0.53	
SS5X7-20 ^P _N	Rc 1/4	C10	3.6	0.31	0.93	3.6	0.27	0.88	

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

Internal Wiring of Manifold







- The maximum number of stations is 12. If more than 12 stations are required, please consult with SMC.
- -COM and +COM specifications are available. (Diagram above is for +COM specifications.)



SV

SZ

SY

SYJ

SX



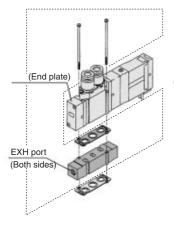
Manifold Option

■ Blanking plate assembly

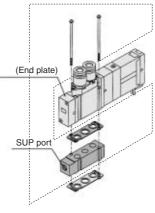


Assembly part no.
SY3000-26-10A
SY5000-26-21A
SY7000-26-23A

■ Individual EXH spacer assembly



■ Individual SUP spacer assembly



Series	Assembly part no.	Port size
SX3000	SX3000-39-20A	M5 x 0.8
SX5000	SX5000-39-1⊠A	1/8
SX7000	SX7000-39-1⊠A	1/4



Note) For protection of the wiring unit section from drain, it should be piped at the EA port so that it will not be directly exposed to exhaust from the valve.

⚠ Caution

Mounting screw tightening torques

M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m

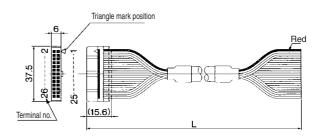
Series Assembly part no. Port size **SX3000** SX3000-38-20A M5 x 0.8 SX5000 SX5000-38-1 ⊗A **SX7000** SX7000-38-1⊗A 1/4

Note) The SUP port may be either on the lead wire side or on the end plate side (Factory assembled spacer will be shipped with the orientation shown in the figure.)

* Thread type

Nil	Rc
F	G
N	NPT
Т	NPTF

■ Cable assembly AXT100-FC26- to



Connector Assembly for Flat Ribbon Cable

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-FC26-1	
3 m	AXT100-FC26-2	Cable 26 cores x 28AWG
5 m	AXT100-FC26-3	

* For other commercial connectors, use a 26 pins type with strain relief conforming to MIL-C-83503.

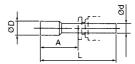
Connector manufacturers' example

- Hirose Electric Co., Ltd. Japan Aviation Electronics Industry, Ltd.
- Sumitomo 3M Limited J.S.T. Mfg. Co., Ltd.
- Fujitsu Limited

■ Plug

These are inserted in cylinder ports or SUP/EXH ports which are not being used.

Purchasing order is available in units of 10 pieces.



Dimensions

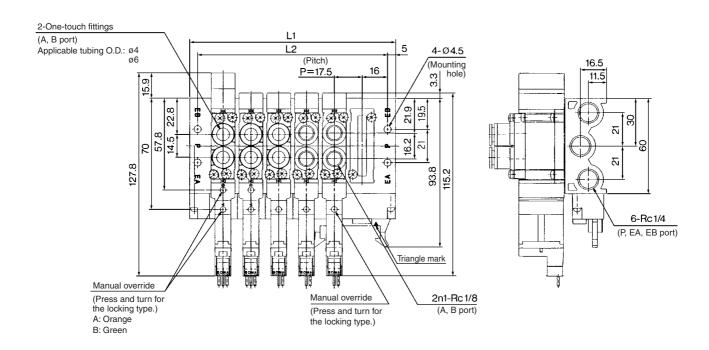
Applicable fittings fitting ød	Model	А	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5

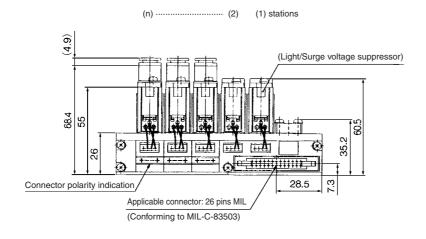
⚠ Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-51 to 1-6-53, and then mount it.

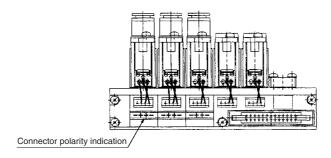


SX5000: SS5X5-20P- Stations





SS5X5-20N



n: Stations (n1 + n2)

	Stations n	3	4	5	6	7	8	9	10	11	12
	L1	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
ĺ	L2	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5



Series **SX3000/5000/7000 Base Mounted Manifold Bar Stock Type Individual Wiring**

Nil

F

Ν

Т

Nil

F

N

Rc

G

NPT NPTF

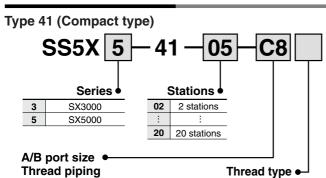
Rc

G

NPT

NPTF

How to Order Manifold



Symbol	Port size	Applicable series
M5	M5 x 0.8	SX3000
01	1/8	SX5000

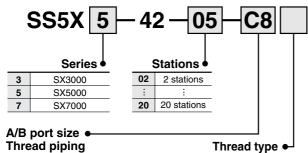
		, 0		
One-	touch	fitting	(Metric	size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SX3000
C6	One-touch fitting for ø6	373000
C6	One-touch fitting for ø6	SX5000
C8	One-touch fitting for ø8	3/3000

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	SX3000
N7	One-touch fitting for ø1/4"	3/3000
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	373000

Type 42 (Common external pilot type)



Thread piping

Symbol	Port size	Applicable series
01	1/8	SX3000
02	1/4	SX5000
02	1/4	SX7000

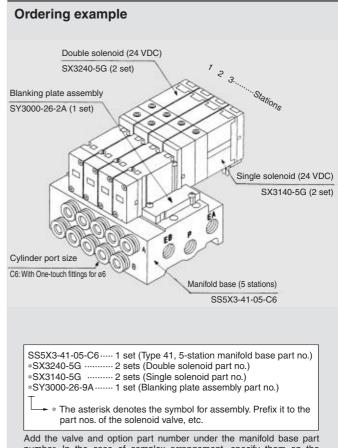
One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SX3000
C6	One-touch fitting for ø6	3/3000
C6	One-touch fitting for ø6	SX5000
C8	One-touch fitting for ø8	0,0000
C10	One-touch fitting for ø10	SX7000

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	SX3000
N7	One-touch fitting for ø1/4"	3/3000
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	3/3000
N11	One-touch fitting for ø3/8"	SX7000

How to Order Valve Manifold Assembly

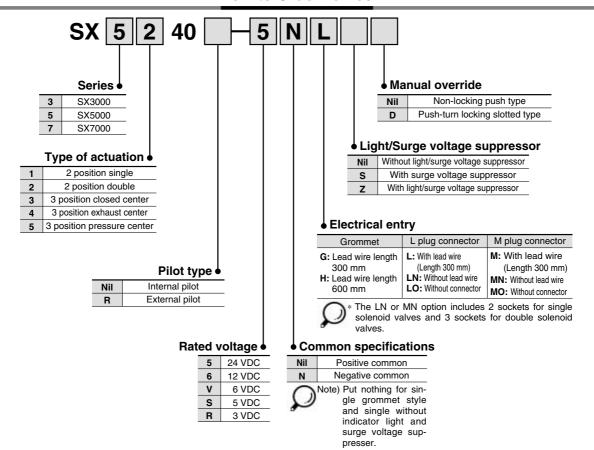


number. In the case of complex arrangement, specify them on the manifold specification sheet.



• Connector assembly for L and M typesRefer to page 1-	-6-8.
Common connector ass'y for manifold	-6-9.

How to Order Valves



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Manifold Specifications

Model		SS5X3-41	SS5X3-42	SS5X5-41	SS5X5-42	SS5X7-42				
Applicable valve		SX3□40	SX3□40(R)	SX5□40	SX5□40(R)	SX7□40(R)				
Manifo	ld ty	/pe		Si	ngle base/B mou	ınt				
P(SUF	P)/R(EXH)		Comm	on SUP/Commo	n EXH				
Valve	stati	ons Note)			2 to 20 stations					
A, B Porti	A. B Porting Location			Base						
A, B Porting Specifications Direction		Direction	Side							
	P, E	A, EB port	Rc 1	1/8	Rc 1/4		Rc 1/4			
Port size A, B port		B port	M5 x 0.8 C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	Rc 1/8 C4 (One-touch fitting ø4) C6 (One-touch fitting for ø6)	Rc 1/8 C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	Rc 1/4 C6 (One-touch fitting for Ø6) C8 (One-touch fitting for Ø8)	Rc 1/4 C10 (One-touch fitting for ø10			
Manifold base weight W (g) n: Stations			W = 30n + 50	W = 37n + 63	W = 61n + 101	W = 79n + 127	W = 100n + 151			

Note) For more than 10 stations, supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

Flow Characteristics

	Port size		Flow characteristics Note)					
			$1 \rightarrow 4/2 \ (P \rightarrow A/B)$		$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv
SS5X3-41	Rc 1/8	C6	0.75	0.19	0.18	0.81	0.23	0.20
SS5X3-42	Rc 1/8	C6	0.75	0.20	0.18	0.82	0.20	0.20
SS5X5-41	Rc 1/4	C8	1.8	0.23	0.44	1.9	0.16	0.45
SS5X5-42	Rc 1/4	C8	1.9	0.20	0.46	1.9	0.12	0.43
SS5X7-42	Rc 1/4	C10	3.0	0.25	0.75	3.0	0.12	0.66

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

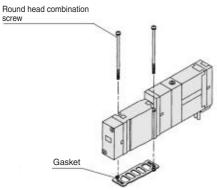
Manifold Option

■ Blanking plate assembly



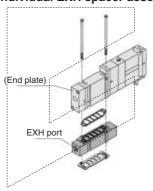
Series	Assembly part no.
SX3000	SY3000-26-9A
SX5000	SY5000-26-20A
SX7000	SY7000-26-22A

■ Bolt and gasket part no.



Series	Round head combination screw	Gasket
SX3000	SX3000-22-2 (M2 x 24)	SY3000-11-25
SX5000	M3 x 30 (Matt nickel plated)	SY5000-11-15
SX7000	M4 x 35 (Matt nickel plated)	SY7000-11-11

■ Individual EXH spacer assembly

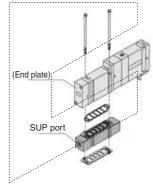


Series	Assembly part no.	Port size
SX3000	SX3000-39-2A	M5 x 0.8
SX5000	SX5000-39-16⊠A	1/8
SX7000	SX7000-39-16®A	1/4

Note) The EXH port may be either on the lead wire side or on the end plate side. (An assembly is shipped under the condition shown in the figure.)

Inserted into an unused cylinder port and SUP/EXH ports. Purchasing order is available in units of 10 pieces.

■ Individual SUP spacer assembly



Series	Assembly part no.	Port size
SX3000	SX3000-38-2A	M5 x 0.8
SX5000	SX5000-38-16⊠A	1/8
SX7000	SX7000-38-16⊠A	1/4

Note) The SUP port may be either on the lead wire side or on the end plate side. (An assembly is shipped under the condition shown in the figure.)

* Thread type					
Nil	Rc				
F	G				
N	NPT				
Т	NPTF				

Dimensions

Applicable fittings fitting ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5



⚠ Warning

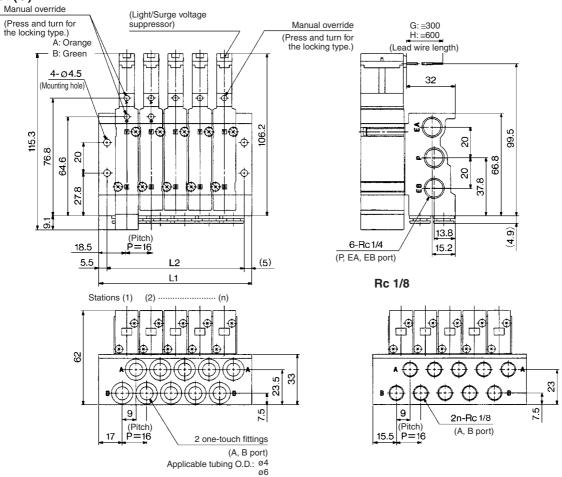
When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-57 to 1-6-63, and then mount it.



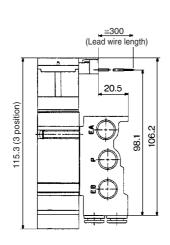


SX5000: SS5X5-41- Stations -01/C6/C8

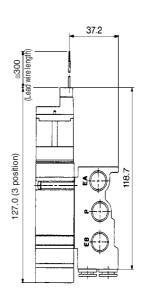
Grommet (G) Manual override



L plug connector (L)



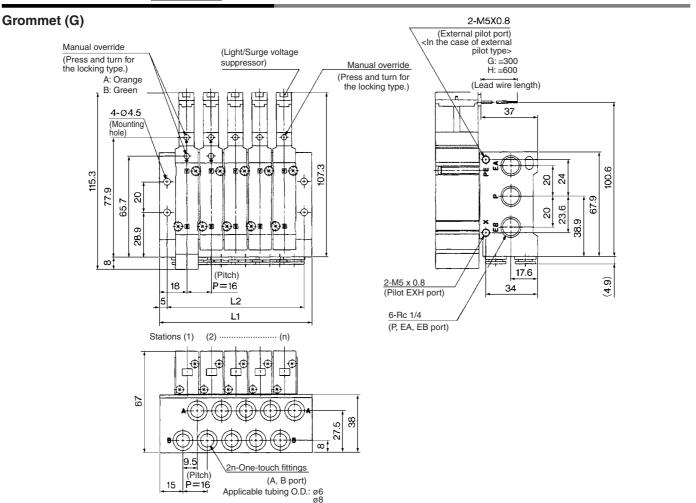
M plug connector (M)



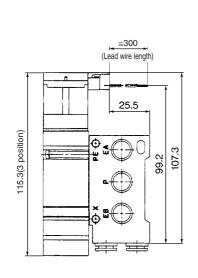
(mm)

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	52.5	68.5	84.5	100.5	116.5	132.5	148.5	164.5	180.5	196.5	212.5	228.5	244.5	260.5	276.5	292.5	308.5	324.5	340.5
L2	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330

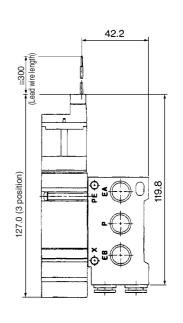
SX5000: SS5X5-42- Stations -C6/C8



L plug connector (L)



M plug connector (M)



'n	Υ	n	m	۱

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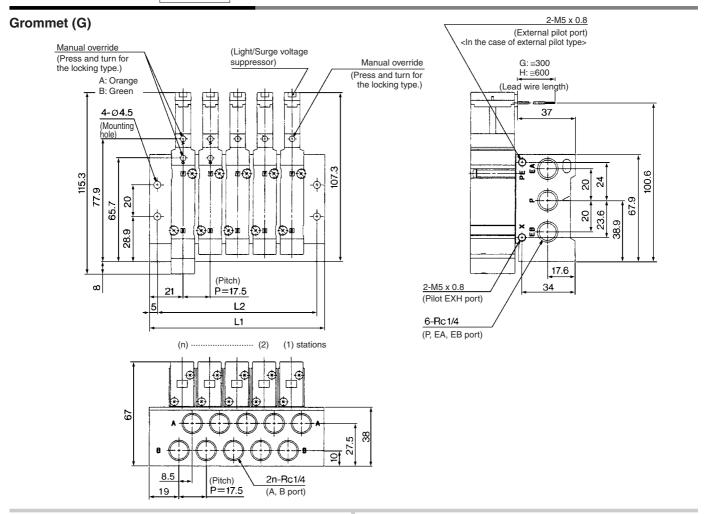
SX

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	52	68	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
L2	42	58	74	90	106	122	138	154	170	186	202	218	234	250	266	282	298	314	330

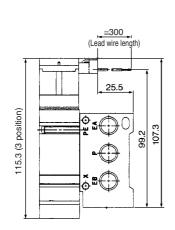




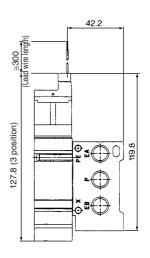
SX5000: SS5X5-42- Stations -02



L plug connector (L)



M plug connector (M)



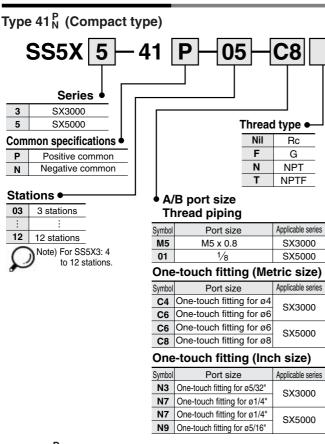
(mm)

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	59.5	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5	252	269.5	287	304.5	322	339.5	357	374.5
L2	49.5	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5	242	259.5	277	294.5	312	329.5	347	364.5

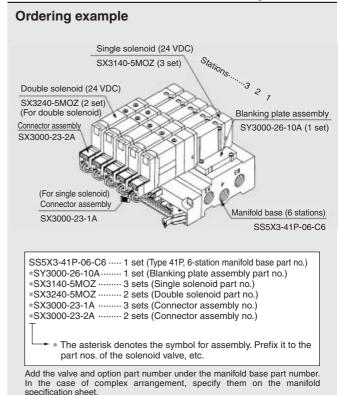


Series SX3000/5000/7000 Base Mounted Manifold Bar Stock Type Flat Ribbon Cable

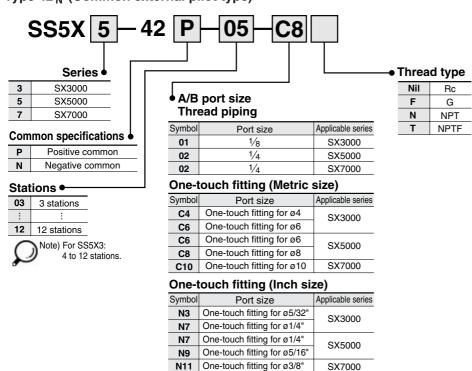
How to Order Manifold



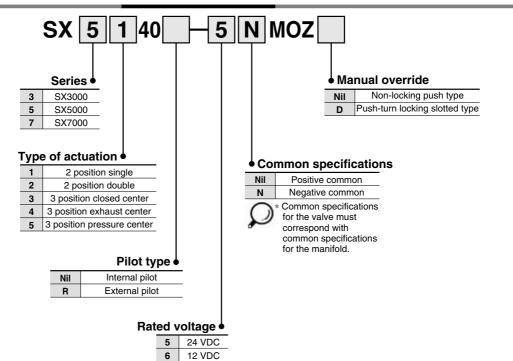
How to Order Valve Manifold Assembly



Type 42 P (Common external pilot type)



How to Order Valves



How to Order Connector Assembly

- Positive common specifications
 For single solenoid: SX3000-23-1A
 For double solenoid, 3 position: SX3000-23-2A
- Negative common specifications
 For single solenoid: SX3000-24-1A
 For double solenoid, 3 position: SX3000-24-2A
- For detailed information on connector assembly, refer to page 1-6-9.



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- Multiple valve wiring is simplified through the use of the flat cable connector.
- Clean appearance

In case of a flat cable style, each valve is wired on the print board of manifold base to allow the external wiring to be piped all together with 26 pins MIL connector.



Flat Ribbon Cable Manifold Specifications

1	Mode	el	SS5X3-41 ^P	SS5X3-42 ^P	SS5X5-41 ^P	SS5X5-42 ^P	SS5X7-42 ^P _N					
Applic	cable	valve	SX3□40	SX3□40(R)	SX5□40	SX5□40(R)	SX7□40(R)					
Manifo	old ty	ре		Si	ngle base/B mou	unt						
P (SUI	P (SUP)/R (EXH)		Common SUP/Common EXH									
Valve	Valve stations (1)		4 to 12	stations		3 to 12 stations	_					
A, B por	A, B port Location			Base								
specifica	specifications Direction				Side	_						
	P, E	A, EB port	Rc	1/8	Rc	1/4	Rc 1/4					
Port size	A,	B port	M5 x 0.8 C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	, ,	Rc 1/8 C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	, ,	Rc 1/4 C10 (One-touch fitting for ø10)					
Manifold W (g)			W = 39n + 83	W = 48n + 99	W = 67n + 118	W = 88n + 151	W = 109n + 174					
Applicable fla	Applicable flat ribbon cable connector		Socket: 26 pins MIL with strain relief (Conforming to MIL-C-83503)									
Interna	Internal wiring (2)		+COM (Type 41P, 42P), -COM (Type 41N, 42N)									
Rated voltage		12, 24 VDC										

O Note 1

Note 1) For more than 10 stations, supply pressure to P port on both sides and exhaust from EA and EB port on both sides.

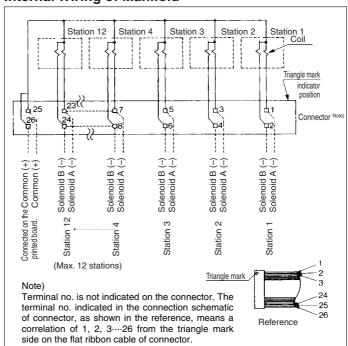
Note 2) The withstand voltage specification for the wiring unit section is JIS C 0704, Grade 1 or its equivalent.

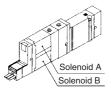
Flow Characteristics

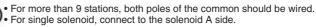
	Port	cizo		Flow characteristics								
	1 011	5126	1 →	$4/2 (P \rightarrow A)$	A/B)	$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$						
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv				
SS5X3-41 P	Rc 1/8	C6	0.75	0.19	0.18	0.81	0.23	0.20				
SS5X3-42 P	Rc 1/8	C6	0.75	0.20	0.18	0.82	0.20	0.20				
SS5X5-41 P	Rc 1/4	C8	1.8	0.23	0.44	1.9	0.16	0.45				
SS5X5-42 P	Rc 1/4	C8	1.9	0.20	0.46	1.9	0.12	0.43				
SS5X7-42 P	Rc 1/4	C10	3.0	0.25	0.75	3.0	0.12	0.66				

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

Internal Wiring of Manifold







- The maximum number of stations is 12. If more than 12 stations are required, please consult with SMC.
- COM and +COM specifications are available. (Diagram above is for +COM specifications.)



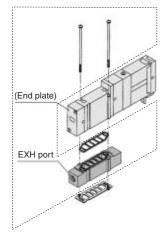
Manifold Option

■ Blanking plate assembly



Series	Assembly part no.
SX3000	SY3000-26-10A
SX5000	SY5000-26-21A
SX7000	SY7000-26-23A

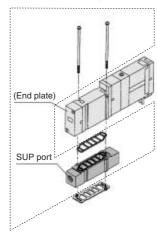
■ Individual EXH spacer assembly



Series	Assembly part no.	Port size
SX3000	SX3000-39-2A	M5 x 0.8
	SX5000-39-16⊮A	
SX7000	SX7000-39-16⊠A	1/4

Note) For protection of the wiring unit section, the EXH port is on the end plate side.

Individual SUP spacer assembly



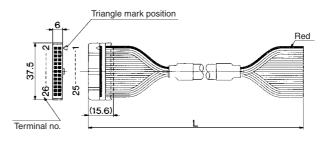
	Assembly part no.	Port size
SX3000	SX3000-38-2A	M5 x 0.8
SX5000	SX5000-38-16⊞A	1/8
SX7000	SX7000-38-16⊮A	1/4

Note) The SUP port may be either on the lead wire side or on the end plate side. (An assembly is shipped under the condition shown in the figure.)

* Thread type

	··· · · / / · ·
Nil	Rc
F	G
N	NPT
Т	NPTF

■ Cable assembly AXT100-FC26- ¹/₁₃



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Connector Assembly for Flat Ribbon Cable

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-FC26-1	
3 m	AXT100-FC26-2	Cable 26 cores x 28AWG
5 m	AXT100-FC26-3	

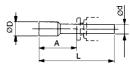
* For other commercial connectors, use a 26 pins type with strain relief conforming to MIL-C-83503.

Connector manufacturers' example

- Hirose Electric Co., Ltd. Japan Aviation Electronics Industry, Ltd.
- Sumitomo 3M Limited J.S.T. Mfg. Co., Ltd.
- Fujitsu Limited

■ Plug

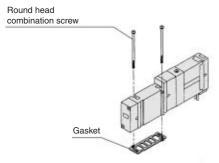
These are inserted in cylinder ports or SUP/EXH ports which are not being used.



Dimensions

Applicable fittings size ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5

■ Bolt and gasket part no.



5	Series	Round head combination screw	Gasket		
S	X3000	SX3000-22-2 (M2 x 24)	SY3000-11-25		
S	X5000	M3 x 30 (Matt nickel plated)	SY5000-11-15		
S	X7000	M4 x 35 (Matt nickel plated)	SY7000-11-11		

⚠ Caution

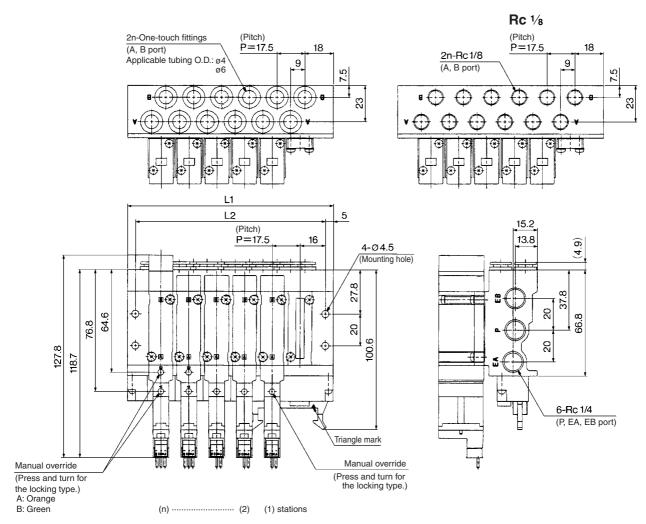
Mounting screw tightening torques

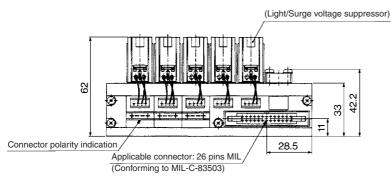
M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m

Marning

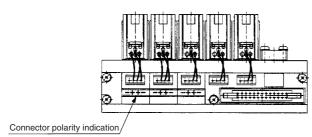
When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-68 to 1-6-72, and then mount it.

SX5000: SS5X5-41P- Stations -01/C6/C8





SS5X3-41N



											(mm)
Stati	ions n	3	4	5	6	7	8	9	10	11	12
L	_1	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L	_2	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5



sv

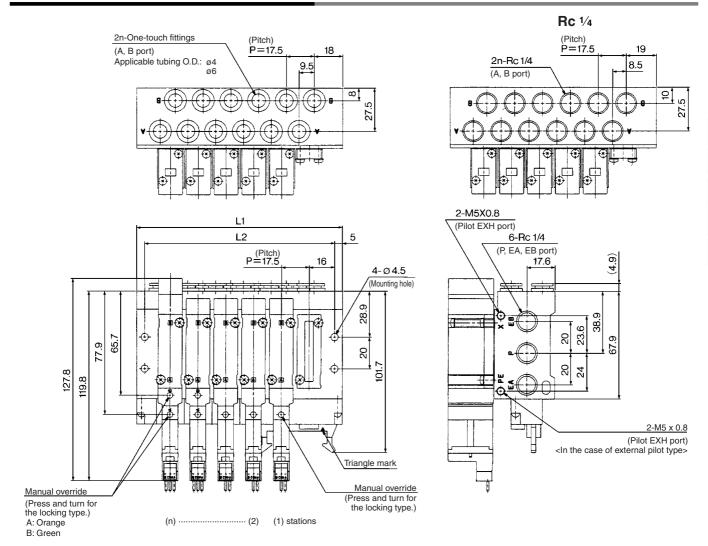
SZ

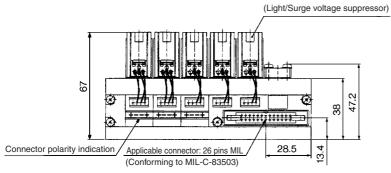
SY

SYJ

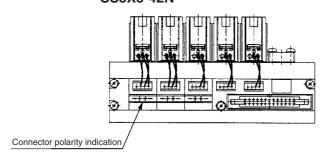
SX

SX5000: SS5X5-42P- Stations -02/C6/C8





SS5X5-42N



										(mm)
Stations n	3	4	5	6	7	8	9	10	11	12
L1	77	94.5	112	129.5	147	164.5	182	199.5	217	234.5
L2	67	84.5	102	119.5	137	154.5	172	189.5	207	224.5



SV

SZ

SY

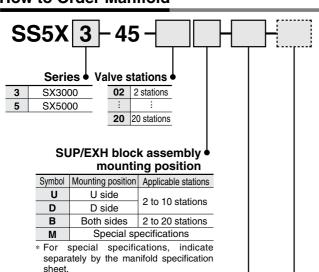
SYJ

SX



Series SX3000/5000 Base Mounted Manifold Stacking Type DIN Rail Mounted Individual Wiring

How to Order Manifold



A, B port size ◆ (Metric size)

Symbol	Port size	Applicable series		
C4	One-touch fitting for ø4			
C6	One-touch fitting for ø6	SX3000		
M	Mixed			
C4	One-touch fitting for ø4			
C6	One-touch fitting for ø6	SX5000		
C8	One-touch fitting for ø8			
M	Mixed			

(Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	SX3000	
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	373000
М	Mixed	

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

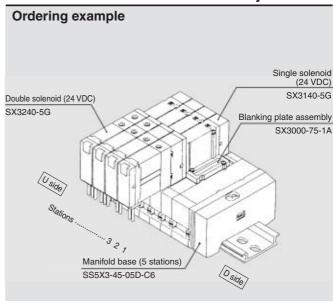
Option •

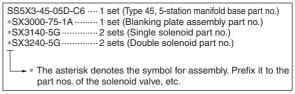
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)



Connector assembly for L and M typesRefer to pageRefer to page	age 1-6-8.
Common connector assembly for manifoldRefer to page	age 1-6-9.

How to Order Valve Manifold Assembly





The valve arrangement is numbered as the 1st. station from D side regardless of the mounting position of SUP/EXH block assembly. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the Manifold Specification Sheet to instruct us.

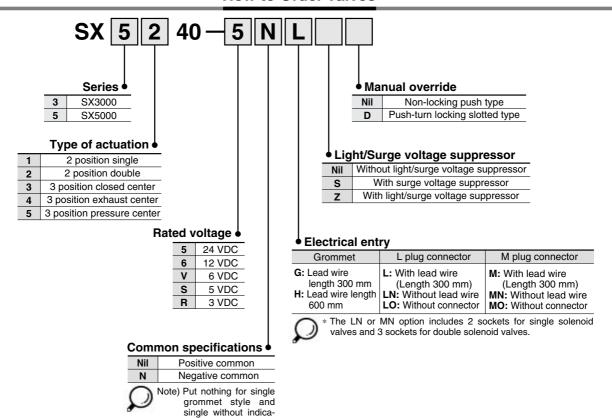
SV

SZ

SY

SYJ

How to Order Valves



tor light and surge voltage suppresser.





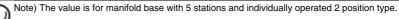
Manifold Specifications

Mod	del	SS5X3-45	SS5X5-45						
Applicab	le valve	SX3□40	SX5□40						
Manifold type		Stacking type/D	IN rail mounted						
P(SUP), R(EXH))	Common SUP	/Common EXH						
Valve stations №	te)	2 to 20	stations						
A, B port	Location	Ва	ise						
specifications	Direction	Side							
	P, R port	C8 (One-touch fitting for ø8)	C10 (One-touch fitting for ø10)						
Port size	A, B port	C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)						
Manifold base w n: Stations	eight W (g)	2 to 10 stations: W = 22n + 118 11 to 20 stations: W = 22n + 140	2 to 10 stations: W = 47n + 156 11 to 20 stations: W = 47n + 190						

Note) For more than 11 stations, supply pressure to P port on both sides and exhaust from R port on both sides.

Flow Characteristics

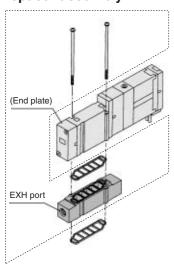
	Port	size	Flow characteristics						
	1 011	SIZE	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv	
SS5X3-45	C8	C6	0.88	0.21	0.22	0.95	0.18	0.22	
SS5X5-45	C10	C8	2.2	0.24	0.53	2.5	0.18	0.58	





Manifold Option

■ Individual SUP spacer assembly



(End plate)	
600	
OUP	ELLE

Series	Assembly part no.	Port size
SX3000	SX3000-39-2A	M5 x 0.8
SX5000	SX5000-39-16⊠A	1/8

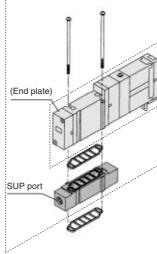


Note) The EXH port may be either on the lead wire side or on the end plate

* Thread type

Nil	Rc		
F	G		
N	NPT		
Т	NPTF		

■ Individual EXH spacer assembly



Series	Assembly part no.	Port size				
SX3000	SX3000-39-2A	M5 x 0.8				
SX5000	SX5000-39-16⊞A	1/8				
ALLATI EVII I I						

side.

shown in the figure.) ■ Blanking plate assembly

Note) SUP port may be either

the end plate side

on the lead wire side or

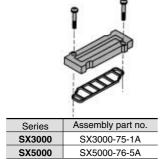
(Factory assembled spacer will be shipped with the orientation

1/8

assembled

Series Assembly part no. Port size SX3000 SX3000-38-2A M5 x 0.8

SX5000 SX5000-38-16⊠A

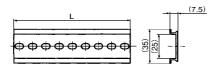


■ Dimensions/DIN rail

VZ1000 − 11 − 1 − [

Refer to L dimensions

Fill in I with an appropriate no. listed on the table of DIN rail dimensions shown below.



No.	0	1	2	3	4	5	6	7	8	9	10
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223
No.	11	12	13	14	15	16	17	18	19	20	21
L dimension	235.5	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
No.	22	23	24	25	26	27	28	29	30	31	32
L dimension	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498
No.	33	34	35	36	37	38	39	40	41	42	43
L dimension	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5
No.	44	45	46	47	48	49	50	51	52	53	54
L dimension	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773
No.	55	56	57	58	59	60	61	62	63	64	65
L dimension	785.5	798	810.5	823	835.5	848	860.5	873	885.5	898	910.5
No.	66	67	68	69	70	71					
L dimension	923	935.5	948	960.5	973	985.5					

■ SUP block disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and low pressures to one manifold.



Series	Part no.
SX3000	SX3000-77-1A
SX5000	SX5000-77-1A

■ EXH block disk

By installing an EXH block disk in the exhaust passage of a manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two block disks are needed to divide both exhausts.)



SV

SZ

SY

SYJ

SX

	7.780.2		
Series	Part no.		
SX3000	SX3000-77-1A		
SX5000	SX5000-77-1A		

■ Lable for block disk

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)

VZ3000-123-1A

Label for SUP block disk





Label for SUP/EXH block disk



Note) When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.

■ Silencer with One-touch fitting

This silencer can be mounted on the manifold's port R (exhaust) with a single touch.

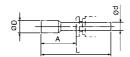


Series	Model	Effective area	Α	В	С
SX3000 (ø8)	AN203-KM8	14 mm ²	ø16	26	51
CVE000 (-:10)	AN200-KM10	26 mm ²	ø22	53.8	80.8
SX5000 (ø10)	AN300-KM10	30 mm ²	ø25	70	97

■ Plug

These are inserted in cylinder ports or SUP/EXH ports which are not being used.

Purchasing order is available in units of 10 pieces.



Dimensions

Applicable fittings fitting ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5

Mounting screw tightening torques

M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m

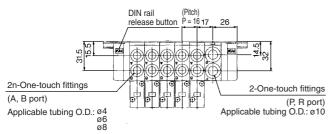
\land Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-78 to 1-6-79, and then mount it.

9

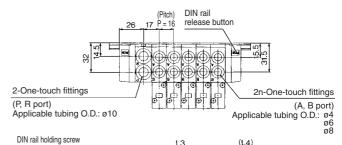
Dimensions: Series SX5000

SS5X5-45- Stations D-C6





(3.5)



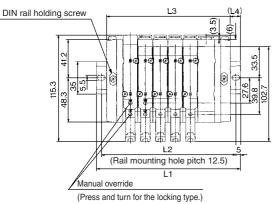
SV

SZ

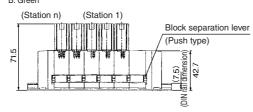
SY

SYJ

SX



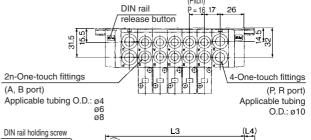
A: Orange B: Green



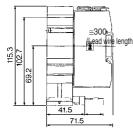
LI									(mm)
Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	110.5	135.5	148	160.5	173	198	210.5	223	235.5
L2	100	125	137.5	150	162.5	187.5	200	212.5	225
L3	84	100	116	132	148	164	180	196	212
L4	13	17.5	16	14	12.5	17	15	13.5	11.5

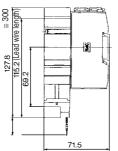
(Rail mounting hole pitch 12.5)

SS5X5-45- Stations B-C4



L plug connector M plug connector





IN rail holding screw	L3	(L4)
1 +	B	(a) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
	Li	

									(mm)
Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	135.5	148	160.5	185.5	198	210.5	223	248	260.5
L2	125	137.5	150	175	187.5	200	212.5	237.5	250
L3	102	118	134	150	166	182	198	214	230
L4	16.5	15	13	17.5	16	14	12.5	17	15
Stations n	11 stations	12	13	14	15	16	17	18	19
L4	16.5	15	13	17.5	16	14	12.5	17	15

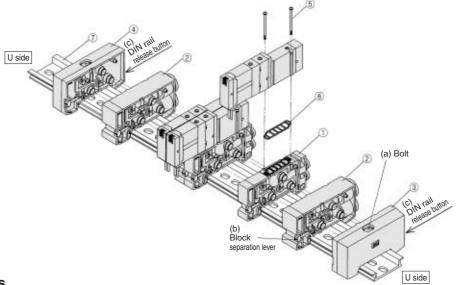
Stations n	11 stations	12	13	14	15	16	17	18	19	20 stations
L1	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423
L2	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5
L3	246	262	278	294	310	326	342	358	374	390
L4	13.5	11.5	16	14.5	12.5	17	15.5	13.5	12	16.5

≅ 300

(Lead wire length)

Exploded View/DIN Rail Manifold

Type 45



Replacement Parts

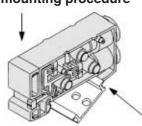
NI-	Description	Par	t no.		1-1-	
No.	Description	SX3000	SX5000	Note		
1)	Manifold block assembly	SX3000-50-1A-□□	SX5000-50-1A-C6 □□	SX3000 (Metric size) C4: With One-touch fitting for ø4 C6: With One-touch fitting for ø6 SX5000 (Metric size) C4: With One-touch fitting for ø4 C6: With One-touch fitting for ø6 C8: With One-touch fitting for ø8	(Inch size) N3: With One-touch fitting for ø5/32" N7: With One-touch fitting for ø1/4" (Inch size) N3: With One-touch fitting for ø5/32" N7: With One-touch fitting for ø1/4" N9: With One-touch fitting for ø5/16"	
				,	<u>'</u>	
2	SUP/EXH block assembly	(Metric size) SX3000-51-1A (Inch size) SX3000-51-15A			ng for ø8 (Inch size) With One-touch fittings for ø5/16" ng for ø10 (Inch size) With One-touch fittings for ø3/8"	
3	End block assembly R	SX3000-52-1A	SX5000-52-1A	For	D side	
4	End block assembly L	SX3000-53-1A	SX5000-53-1A	For	U side	
(5)	Round head combination screw	SX3000-22-2 (M2 x 24)	M3 x 30 (Matt nickel plated)			
6	Gasket	SX3000-57-4	SX5000-57-6			
7	DIN rail	VZ1000	-11-1- 🗌	Refer to	page 1-6-77.	

How to Increase Manifold Bases

Station expansion is possible at any position.

- (1) Loosen bolt (a) fixing the manifold base until it begins to turn idly. (While pressing DIN rail release buttons (c) at two locations, separate the manifold base from the DIN rail.)
- (2) Press manifold block assembly splitting button (b), that are at the location where manifold bases are to be added, until button (b) locks, and then separate the block assemblies.
- (3) Mount additional manifold block assembly on the DIN rail as shown in the figure.
- - (While lightly holding the blocks after fixing an end block on one side, tighten the other end block for better sealing.)

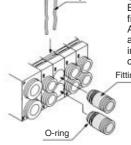
Fig. (1) Block mounting procedure



- When adding manifold bases to use more than 10 stations, add SUP/EXH block assembly, as well.
- 2. When bolt (a) for the end block is not sufficiently tightened during reassembly, air leakage may result. Before supplying air, check that there is no gap between blocks and that the manifold block is firmly fixed to the DIN rail in order to ensure air supply without leakage.

Hook this section on the DIN rail and press in the direction of the arrow until a click sound is generated.

How to Change Fitting Assembly



Type 45 manifold permits change in the A and B port sizes by changing the manifold block fitting assembly.

After removing the valve, remove the clip with a screwdriver. To mount a new fitting assembly insert it and then insert a clip so it does not come out of the manifold block.

Fitting assembly

Fitting Assembly Part No.

Metric size

SX3000	One-touch fitting for ø4	VVQ1000-50A-C4
3,3000	One-touch fitting for ø6	VVQ1000-50A-C6
SX5000	One-touch fitting for ø4	VVQ1000-51A-C4
	One-touch fitting for ø6	VVQ1000-51A-C6
	One-touch fitting for ø8	VVQ1000-51A-C8

Inch size

SX3000	One-touch fitting for ø5/32"	VVQ1000-50A-N3
373000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/32"	VVQ1000-51A-N3
SX5000	One-touch fitting for ø1/4"	VVQ1000-51A-N7
	One-touch fitting for ø5/16"	VVQ1000-51A-N9

Note 1) P and R ports cannot be changed.

Note 2) Use caution that O-rings must be free from scratches and dust. Otherwise, air leakage may result.

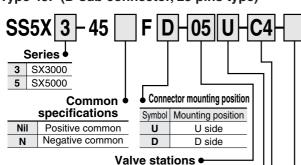




Series **SX3000/5000 Base Mounted Manifold Stacking Type DIN Rail Mounted** Plug-in

How to Order Manifold

Type 45F (D-sub connector, 25 pins type)



Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring specifications(1)	
10	10 stations		
02	2 stations	Available up to 20 solenoids. Specify (2)	
:	:	the wiring specifications on the	
20	20 stations	manifold specification sheet.	

This also includes the number of blanking plate assembly.

20 stations

Note 1) Double wiring specifications: Single, double and 3 position solenoid valves can be used on all

manifold stations.

Note 2) Specified layout: Indicate wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been specified.)

SUP/EXH block assembly • mounting position

Symbol	Mounting position	Stations	
U	U side	2 to 10 stations	
D	D side	2 to 10 stations	
В	Both sides	2 to 20 stations	
М	Special specifications		

* For special specifications, indicate separately by the manifold specification sheet.

A, B port size • (Metric size)

-	<u> </u>	
Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SX3000
M	Mixed	
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	CYFOOO
C8	One-touch fitting for ø8	SX5000
М	Mixed	

(Inch size)

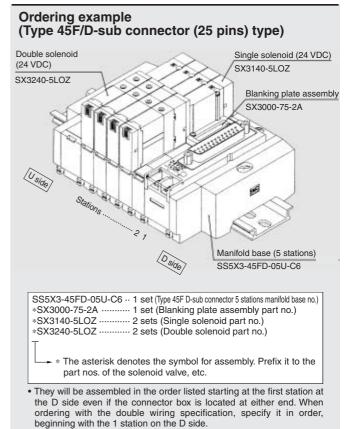
Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX3000
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	3/3000
M	Mixed	

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

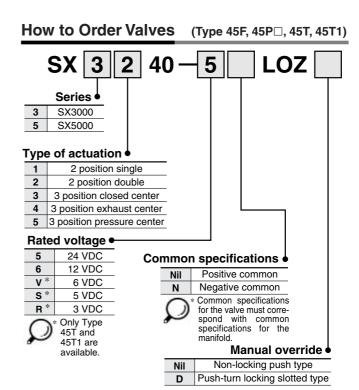
Voltage • Nil 24 VDC 12V 12 VDC

Option • When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

How to Order Valve Manifold Assembly



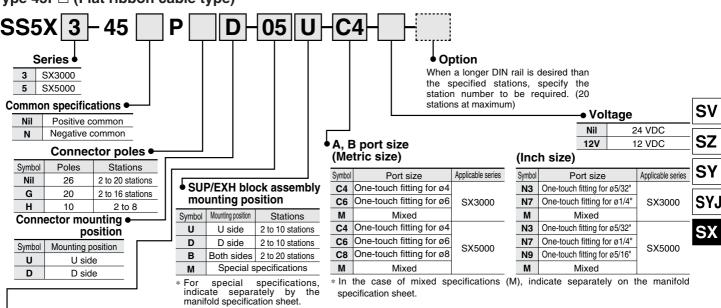
· When special wiring is required, use the manifold specification sheet.





How to Order Manifold





Valve stations (Blanking plate assemblies are included.)

26 pins (P) connector

Symbol	Stations	Note
02	2 stations	Double wiring ⁽¹⁾
:	:	specifications
10	10 stations	
02	2 stations	A !: 1.1
÷	:	Applicable up to 20 ⁽²⁾ solenoids.
20	20 stations	Soleliolus.

20 pins (PG) connector

Symbol	Stations	Note
02	2 stations	Double wiring ⁽¹⁾
:	:	specifications
08	8 stations	
02	2 stations	(2)
÷	:	Applicable up to 16
16	16 stations	Soleliolus.

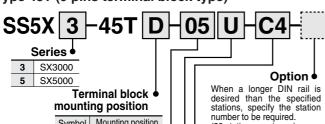
10 pins (PH) connector

	- \ /	
Symbol	Stations	Note
02	2 stations	Double wiring (1)
:	:	specifications
04	4 stations	
02	2 stations	A !: 1.1
:	:	Applicable up to 8 ⁽²⁾ solenoids.
08	8 stations	Soletiolus.

Note 1) Double wiring specifications: Single, double and 3 position solenoid valves can be used on

Note 2) Specified layout: Indicate wiring specifications on the manifold specification sheet. (Note that double and 3 position valves cannot be used where single solenoid wiring has been

Type 45T (9 pins terminal block type)



Mounting position Symbol U side D D side

Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring (1)
:		specifications
04	4 stations	
02	2 stations	A 1: 1-1 4- 0 ⁽²⁾
:	:	Applicable up to 8 ⁽²⁾ solenoids.
08	8 stations	Soleriolds.

This also includes the number of blanking plate assemblies.

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations	
U	U side	2 to 8	
D	D side	2 to 8	
В	Both sides	2 to 8	
М	Special specifications		

 For special specifications, indicate separately by the manifold specification sheet

Cyllibol	Otations	11010
02	2 stations	Double wiring ⁽¹⁾
÷	:	specifications
08	8 stations	
02	2 stations	(2)
÷	:	Applicable up to 16 solenoids.
16	16 stations	solellolus.
	02 : 08 02 :	02 2 stations i i 08 8 stations 02 2 stations i i

(20 stations maximum)

Port size

One-touch fitting for ø4

One-touch fitting for ø6

Mixed One-touch fitting for ø4

One-touch fitting for ø6

One-touch fitting for ø8

Mixed

Port size

One-touch fitting for ø5/32"

One-touch fitting for ø1/4"

Mixed

One-touch fitting for ø5/32"

One-touch fitting for ø1/4"

One-touch fitting for ø5/16" Mixed

* In the case of mixed specifications

(M), indicate separately on the

SX3000

SX5000

Applicable series

SX3000

SX5000

A, B port size

(Metric size)

Symbol

C4

C6

М

C4

C6

C8

М

Symbol

N3

Ν7

М

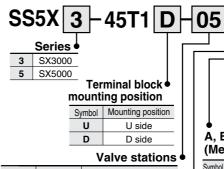
N3

N7

N9

(Inch size)

Type 45T1 (18 pins terminal block type)



Symbol	Stations	Note			
02	2 stations	D (1)			
:	:	Double wiring (1) specifications			
08	8 stations	Specifications			
02	2 stations	A 1: 11 1 1 2 (2)			
:		Applicable up to 17 (2) solenoids.			
17	17	soleliolus.			

This also includes the number of blanking plate assemblies.

SUP/EXH block assembly • mounting position

	J 1					
Symbol	Mounting position	Stations				
U	U side	2 to 10 stations				
D	D side	2 to 10 stations				
В	Both sides	2 to 17				
М	Special specifications					

* For special specifications indicate separately by the manifold specification sheet

all manifold stations

specified.).

A, B port size (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SX3000
M	Mixed	
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	075000
C8	SX5000	
М	Mixed	

Option •

When a longer DIN rail is desired than the specified

stations, specify the station number to be required.

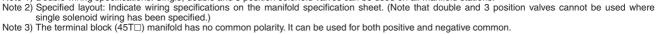
(20 stations maximum)

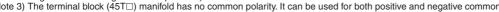
(Inch size)

Symbol	Port size	Applicable series		
N3	One-touch fitting for ø5/32"			
N7	N7 One-touch fitting for ø1/4"			
M	Mixed			
N3	One-touch fitting for ø5/32"			
N7	One-touch fitting for ø1/4"	SX5000		
N9 One-touch fitting for ø5/16"		3/3000		
М	Mixed			

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

manifold specification sheet. Note 1) Double wiring specifications: Single, double and 3 position solenoid valves can be used on all manifold stations.



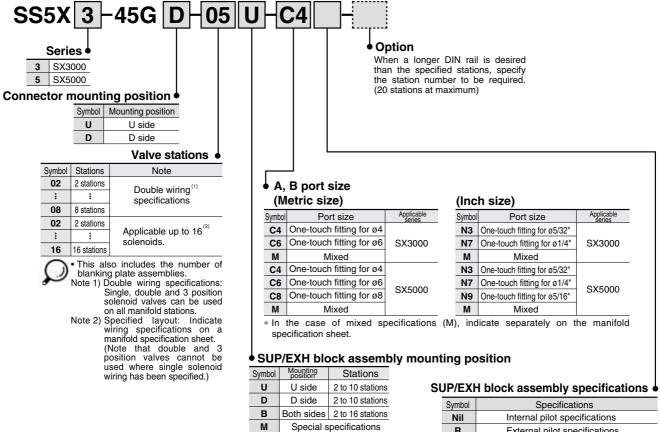






How to Order Manifold

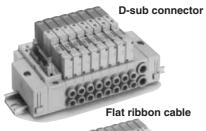
Type 45□P (Flat ribbon cable type (PC wiring system compatible))



^{*} For special specifications, indicate separately by the manifold specification sheet.

Symbol	Specifications			
Nil	Internal pilot specifications			
R	External pilot specifications			
S	Internal pilot/Built-in silencer			
RS	External pilot/Built-in silencer			







Terminal block

Manifold Specifications

Model		D-sub connector	connector Flat ribbon cable type 45P		Terminal block		Flat ribbon cable PC wiring system compatible		
		Type 45F	Type 45P	Type 45PG	Type 45PH	Type 45T	Type 45T1	Type 45G	
Manifold					F	Plug-in type	Э		
P(SUP), R(EXH)				Common	SUP/Com	mon EXH		
Valve static	ns Note)		2 to 20	stations	2 to 16 stations	2 to 8	stations	2 to 17 stations	2 to 16 stations
A, B porting		Location				Base			
specificatio	ns	Direction				Side			
	P, R port	SX3000			C8 (One	-touch fittir	ng for ø8)		
Port size	r, n poit	SX5000			C10 (One	-touch fittir	ng for ø10)		
1 011 3120	A, B port	SX3000			ch fitting fo				
	A, D port	SX5000	C4 (One-to	uch fitting for	ø4)/C6 (One	e-touch fitting	for ø6)/C8	One-touch f	itting for ø8)
Connector	Connector		D-sub connector: Conforms to MIL-C- 24308	with strain relief; Conforming to	Flat ribbon cable connector socket: 20 pins MIL with strain relief; Conforming to MIL-C-83503	Flat ribbon cable connector socket: 10 pins MIL with strain relief; Conforming to MIL-C-83503	Terminal block (M3) 9 pins	Terminal block (M3) 18 pins	Flat ribbon cable connector socket: 20 pins MIL with strain relief; Conforming to MIL-C-83503
Internal wiring			+COM (T	ype 45□), ·	-СОМ (Тур	e 45N□)	In commo +COM ar	n between nd –COM.	+ COM
weight W (g)	Manifold base weight W (g)					ions: W = 2 ations: W =			
n: Stations (D-sub connector)		SX5000		2 to 10 stations: W = 54n + 227 11 to 20 stations: W = 54n + 264					



Note) There is a limit to the number of stations available depending on the number of solenoids required. Please refer to the "How to Order". For more than 10 stations, supply pressure through the "P" ports at both ends of the manifold exhaust through both ends as well.

Flow Characteristics

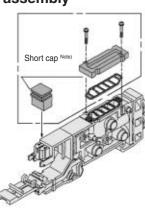
	Port size		Flow characteristics					
	Tort	SIZE	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$		
Model	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	C [dm³/ (s·bar)]	b	Cv	C [dm³/ (s·bar)]	b	Cv
SS5X3-45I	C8	C6	0.88	0.21	0.22	0.95	0.18	0.22
SS5X5-45I	C10	C8	2.2	0.24	0.53	2.5	0.18	0.58



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

Manifold Option

■ Blanking plate assembly



Series	Assembly part no.		
SX3000	SX3000-75-2A		
SX5000	SX5000-76-6A		
Aleta \ \A/leas as securities blaste			

When mounting blanking plate, be sure to mount a short cap.

■ SUP block disk

By installing a SUP block disk in the pressure supply passage of a manifold valve, it is possible to supply two or more different high and pressures to one manifold.



Series	Part no.
SX3000	SX3000-77-1A
SX5000	SX5000-77-1A

■ EXH block disk
By installing an EXH block disk
in the exhaust passage of a
manifold valve, it is possible to divide the valve's exhaust so that it does not affect another valve. (Two block disks are needed to divide both divide exhausts.)



Series	Part no.
SX3000	SX3000-77-1A
SX5000	SX5000-77-1A

■ Label for block disk

The labels shown below are used on manifold stations containing SUP/EXH block disk(s) to show their location. (3 pcs. each)

VZ3000-123-1A (In common between SX3000 and 5000)

Label for SUP block disk





Label for SUP/EXH block disk SV

SZ

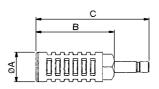
SYJ





Note) When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.

■ Silencer with One-touch fitting
This silencer can be mounted on the manifold's port R (exhaust) with a single touch.

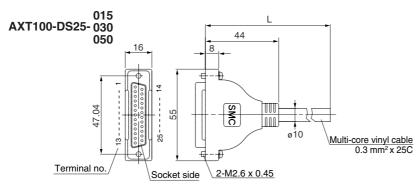


Series	Model	Effective area	Α	В	С
SX3000 (ø8)	000 (ø8) AN203-KM8		16	26	51
SX5000 (ø10)	AN200-KM10	26 mm ²	22	53.8	80.8
	AN300-KM10	30 mm ²	25	70	97



Manifold Option

■ D-sub connector (25 pins)/Cable assembly



Connector manufacturers' example

- Hirose Electric Co., Ltd.
- Fujitsu Limited
- Japan Aviation Electronics
- Industry, Ltd.
 J.S.T. Mfg, Co., Ltd.

D-sub Connector Cable Assembly

Cable length (L)	Assembly part no.	Note	
1.5 m	AXT100-DS25-015	O-bl- 05	
3 m	AXT100-DS25-030	Cable 25 cores	
5 m	AXT100-DS25-050	X Z4AVVG	



For other commercial connectors, use a 25 pins type with female connector conforming to MIL-C-24308.

Electric Characteristics

Item	Characteristics
Conductor resistance	65
Ω/km, 20°C	or less
Voltage limit VAC, 1 min.	1000
Insulation resistance MΩkm, 20°C	5 or less



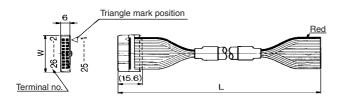
minimum bending radius of D-sub conof D-sub con-nector cable assembly is 20

D-sub Connector Cable Assembly Terminal No.

Terminal no.	Lead wire color	Dot marking
1	Black	None
2	Brown	None
3	Red	None
4	Orange	None
5	Yellow	None
6	Pink	None
7	Blue	None
8	Purple	White
9	Gray	Black
10	White	Black
11	White	Red
12	Yellow	Red
13	Orange	Red
14	Yellow	Black
15	Pink	Black
16	Blue	White
17	Purple	None
18	Gray	None
19	Orange	Black
20	Red	White
21	Brown	White
22	Pink	Red
23	Gray	Red
24	Black	White
25	White	None

■ Flat ribbon cable connector/Cable assembly

AXT100-FC□-½



Flat Ribbon Cable Assembly

Cable length (L)	10 pins	20 pins	26 pins			
1.5 m	AXT100-FC10-1	AXT100-FC20-1	AXT100-FC26-1			
3 m	AXT100-FC10-2	AXT100-FC20-2	AXT100-FC26-2			
5 m	AXT100-FC10-3	AXT100-FC20-3	AXT100-FC26-3			
Connector width (W)	17.2	30	37.5			



For other commercial connectors, use a type with strain relief that conform to MIL-C-83503.

Connector manufacturers' example

- Hirose Electric Co., Ltd.Sumitomo 3M Limited

- Fujitsu Limited
 Japan Aviation Electronics Industry, Ltd.
 J.S.T. Mfg, Co., Ltd.

⚠ Caution

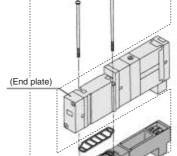
Mounting screw tightening torques

M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m

⚠ Warning

When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-92 to 1-6-109, and then mount it.

■ Individual SUP spacer assembly



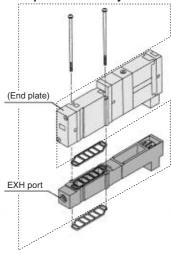
and the same		
Series	Assembly part no.	Port size
SX3000	SX3000-38-3A	M5 x 0.8
SX5000	SX5000-38-17®A	1/8

	SX3000-38-3A						
SX5000	SX5000-38-17⊠A	1/8					
■ Plug							
nserted into an unused cylinder							

units of 10 pieces.

spacer assembly

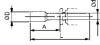
■ Individual EXH



Series	Port size	
SX3000	M5 x 0.8	
SX5000	SX5000-39-17⊠A	1/8

EXH port

port and SUP/EXH ports. Purchasing order is available in



* Thread type Nil Rc

F G Ν NPT NPTF

Dimensions

Applicable fittings size ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10
3/8"	KQ2P-11	22	43	11.5



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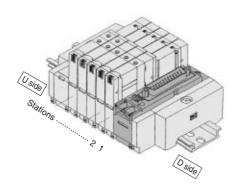
SYJ

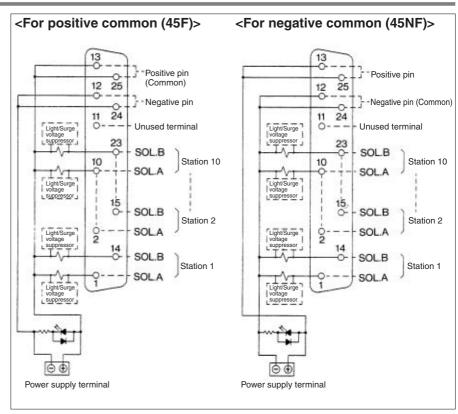
SX

Internal Wiring of Manifold

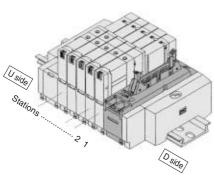
Type 45(N)F: D-sub Connector

D-sub connector used for electric wiring reduces labor during wiring operation. Connectors conforming to MIL are used for interchangeability.





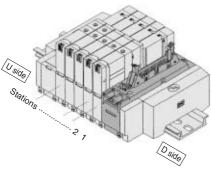
- The power source terminal is used for connecting to an external power source.
- The above diagram is the double wiring specifications for up to 10 stations. When the wiring specifications are specified on the manifold specification sheet, the valve assignment for the connector number will differ from the above diagram. For more information, please contact SMC.
- · When using a single solenoid valve, connect wire to SOL.A
- The maximum number of stations is 20 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.

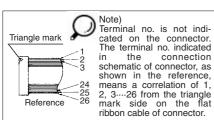


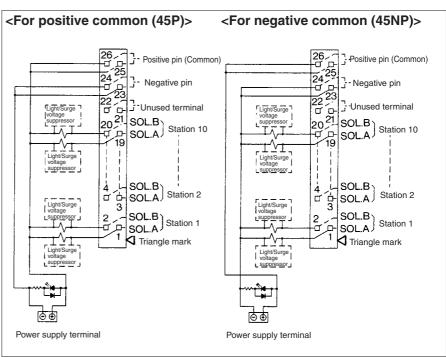
Type 45(N)P: Flat Ribbon Cable (26 pins) A flat cable connector used for electric wiring reduces labor during wiring operation.

Connectors conforming to MIL are used for

interchangeability.







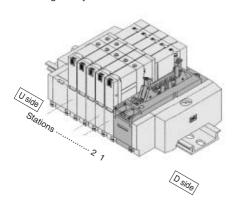
- The power source terminal is used for connecting to an external power source.
- The above diagram is the double wiring specifications for up to 10 stations. When the wiring specifications are specified on the manifold specification sheet, the valve assignment for the connector number will differ from the above diagram. For more information, please contact SMC.
- When using a single solenoid valve, connect wire to SOL.A.
- The maximum number of stations is 20 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.

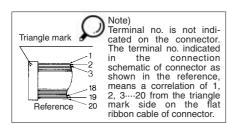


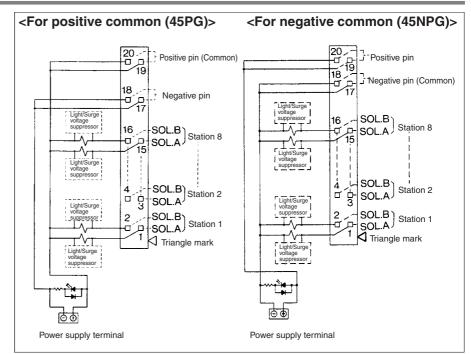


Type 45(N)PG: Flat Ribbon Cable (20 pins)

A flat cable connector used for electric wiring reduces labor during wiring operation. Connectors conforming to MIL are used for interchangeability.



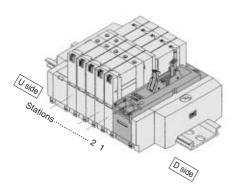


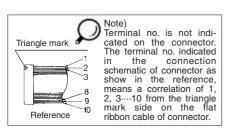


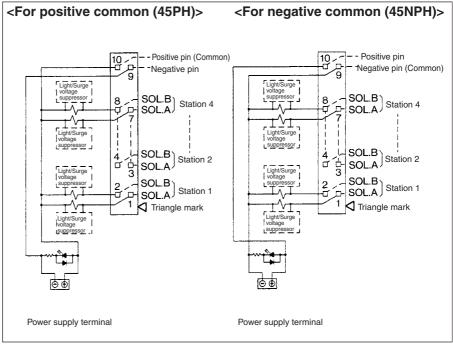
- The power source terminal is used for connecting to an external power source.
- The above diagram is the double wiring specifications for up to 8 stations. When the wiring specifications are specified on the manifold specification sheet, the valve assignment for the connector number will differ from the above diagram. For more information, please contact SMC.
- · When using a single solenoid valve, connect wire to SOL.A
- The maximum number of stations is 16 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.

Type 45(N)PH: Flat Ribbon Cable (10 pins)

A flat cable connector used for electric wiring reduces labor during wiring operation. Connectors conforming to MIL are used for interchangeability.







- The power source terminal is used for connecting to an external power source.
- The above diagram is the double wiring specifications for up to 4 stations. When the wiring specifications
 are specified on the manifold specification sheet, the valve assignment for the connector number will differ
 from the above diagram. For more information, please contact SMC.
- When using a single solenoid valve, connect wire to SOL.A
- The maximum number of stations is 8 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.



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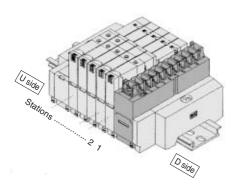
SYJ

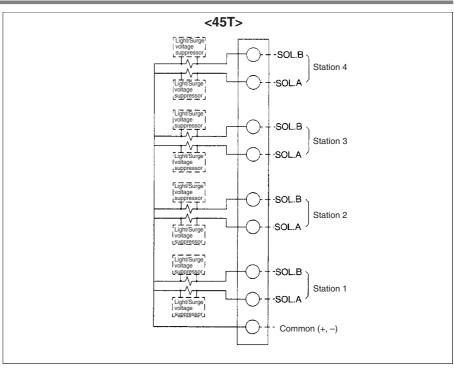
SX

Internal Wiring of Manifold

Type 45T: Terminal Block

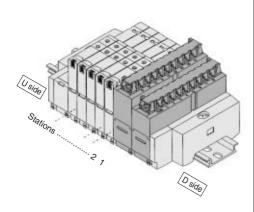
A terminal block style permits direct cable connection without treatment of lead wires.

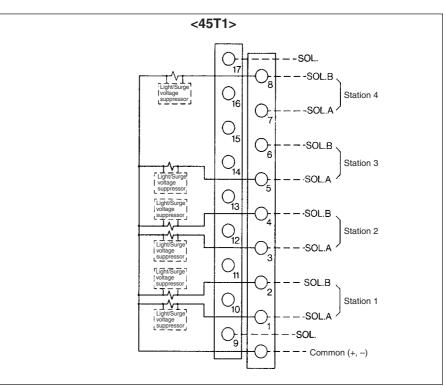




- The maximum number of stations is 8 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)
- The above diagram is the double wiring specifications for up to 4 stations. When the wiring specifications
 are specified on the manifold specification sheet, the valve assignment for the connector number will differ
 from the above diagram. For more information, please contact SMC.
- When using a single solenoid valve, connect wire to SOL.A.
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.
- There is no polarity in the COM wiring. Supply positive power for +COM spec. and negative power for -COM spec.

Type 45T1: Terminal Block





- The maximum number of stations is 17 in terms of manifold bases, as well as solenoids.

 (For more stations, please contact SMC.)
- (For more stations, please contact SMC.)
 Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.
- There is no polarity in the COM wiring. Supply positive power for +COM spec. and negative power for -COM spec.

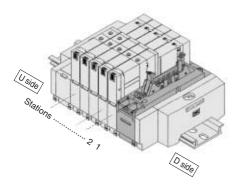


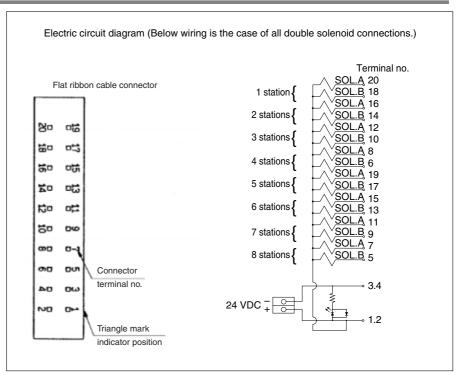


Internal Wiring of Manifold

Type 45G: Flat Ribbon Cable (PC Wiring System compatible)

It is the manifold for 20 pins flat ribbon cable connector which is compliant for PC wiring system.





- The maximum number of stations is 16 in terms of manifold bases, as well as solenoids. (For more stations, please contact SMC.)
- Regardless of the connector mounting position, stations are to be counted from D side as the 1st one.

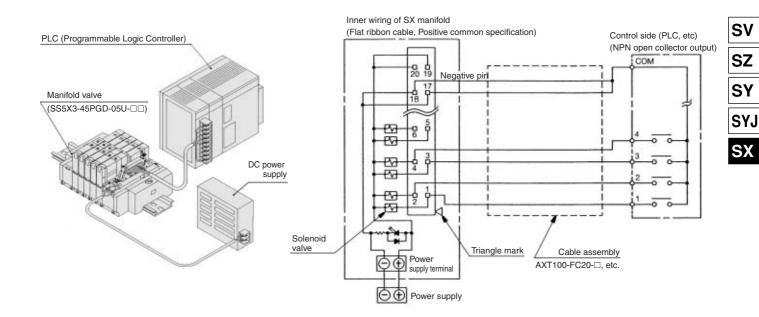


Refer to the separate catalog CAT.S02-20 for the details of PC Wiring System.

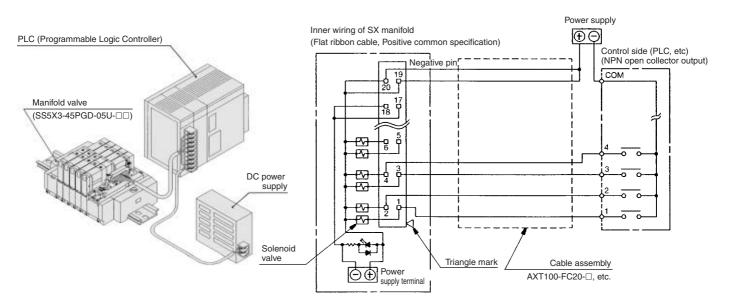
SS5X□-45□ Wiring of Plug-in Type

Power terminal is equipped with plug-in manifold of Series SX as standard. Power terminal enables the power supply to valve from either of manifold or controller side.

1. Wiring example when using manifold power supply terminals



2. Wiring example when the power terminal of the manifold is not used (Power supplied at controller or in wiring)



⚠ Caution

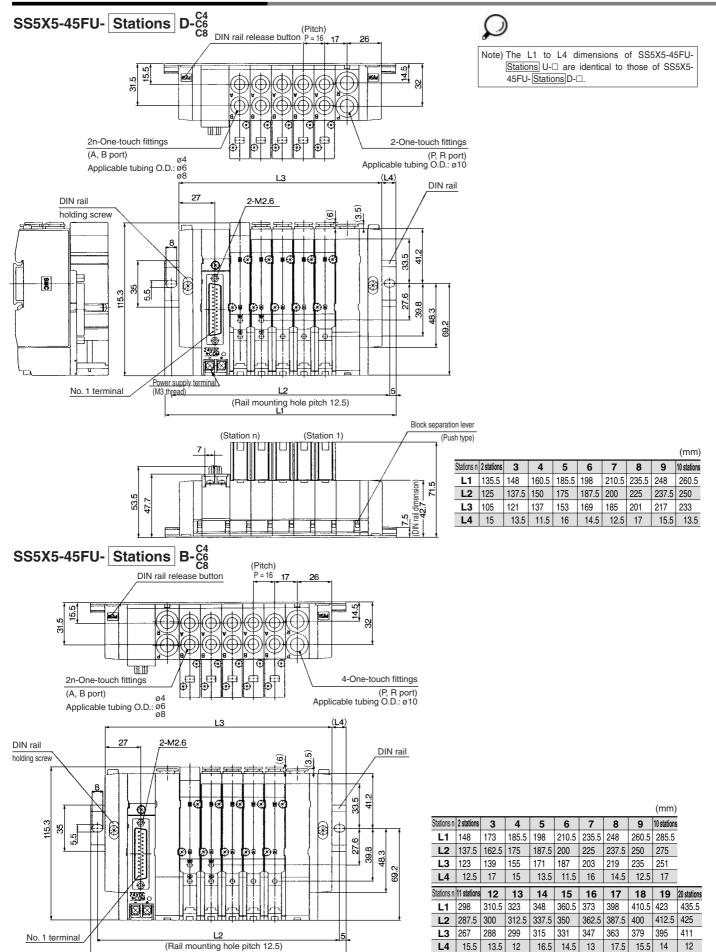
 Single wire, COM position, etc. of PLC are different from each manufacturer. When connecting with PLC, read the specifications carefully and understand the electrical circuit. Poor wiring could cause damage to PLC, power source, etc. as well as manifold and valve.





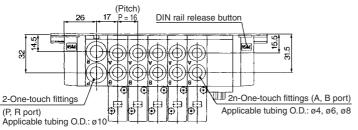
1-6-94

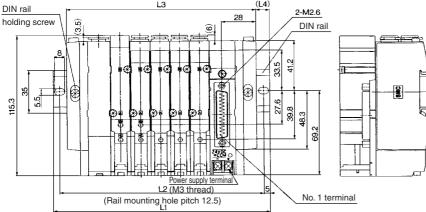
SX5000: D-sub Connector/Plug-in

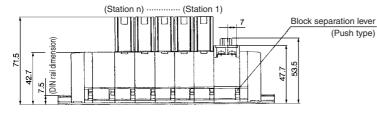


SMC

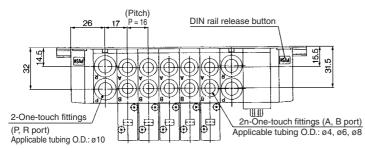
SS5X5-45FD- Stations U-C6 C8

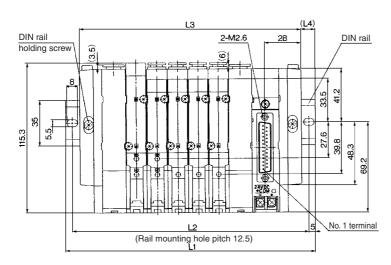






SS5X5-45FD- Stations B-C4 C8







Note) The L1 to L4 dimensions of SS5X5-45FD-<u>Stations</u> D-□ are identical to those of SS5X5-45FD-<u>Stations</u>U-□.

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SX

(mm)

Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	135.5	148	160.5	185.5	198	210.5	235.5	248	260.5
L2	125	137.5	150	175	187.5	200	225	237.5	250
L3	105	121	137	153	169	185	201	217	233
L4	15	13.5	11.5	16	14.5	12.5	17	15.5	13.5

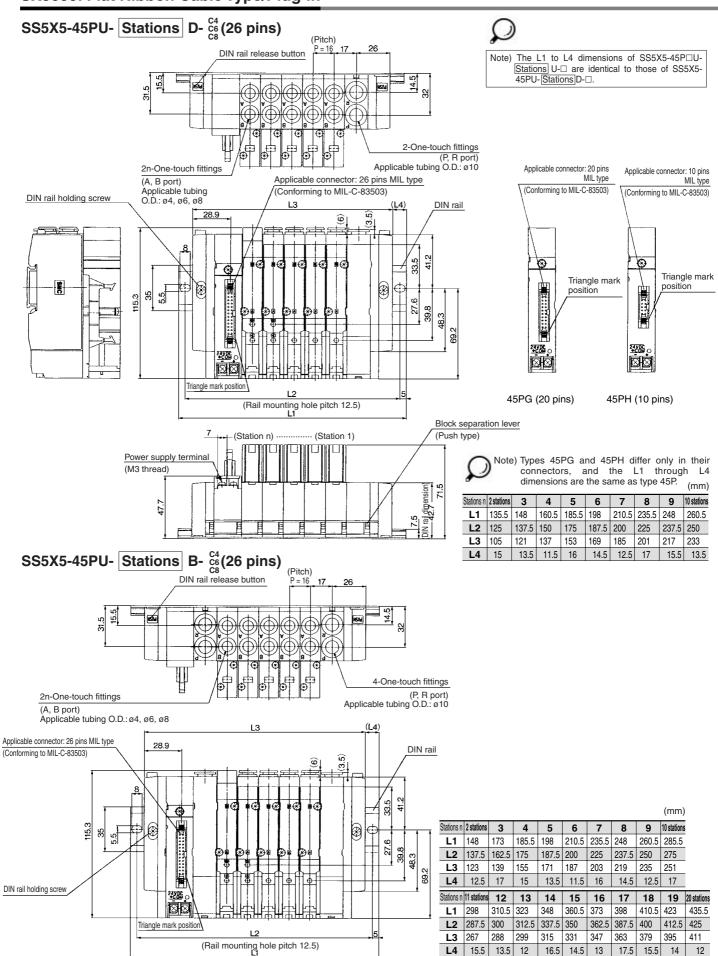
(mm)

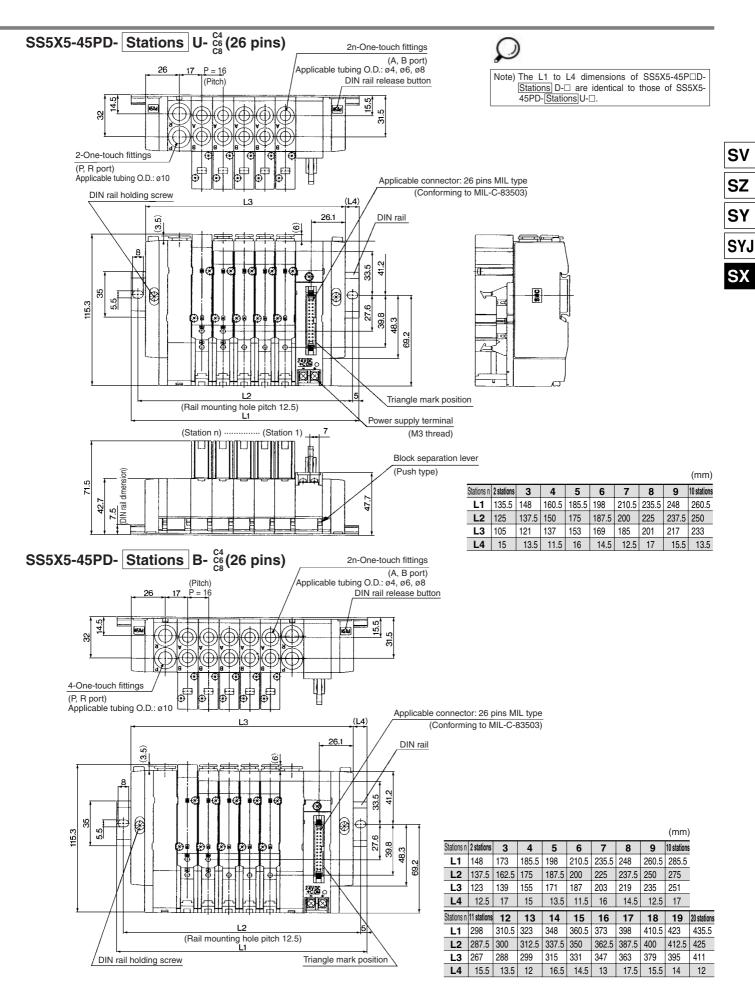
Stations n	2 stations	3	4	5	6	7	8	9	10 stations	
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5	
L2	137.5	162.5	175	187.5	200	225	237.5	250	275	
L3	123	139	155	171	187	203	219	235	251	
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17	
Stations n	11 stations	12	13	14	15	16	17	18	19	20 stations
L1	298	310.5	323	348	360.5	373	398	410.5	423	435.5
L2	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	425
L3	267	288	299	315	331	347	363	379	395	411





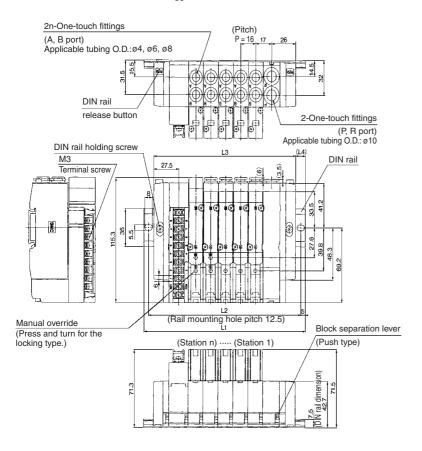
SX5000: Flat Ribbon Cable Type/Plug-in





SX5000: 9 Pins Terminal Block/Plug-in

SS5X5-45TU- Stations D-C4





Note) The L1 to L4 dimensions of SS5X5-45TU-Stations U-□, SS5X5-45TD-Stations U-□, SS5X5-45TU-Stations D-□, are identical to those of SS5X5-45TU-Stations D-□.

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SV.

SYJ

SX

(mm)

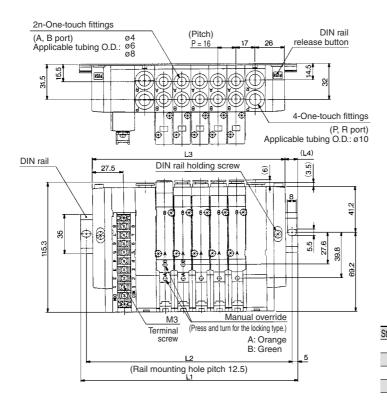
17

Stations n 2 stations 3 4 5 6 8 stations 135.5 160.5 210.5 235.5 L1 148 185.5 198 200 L2 125 137.5 150 175 187.5 225 201 L3 105 121 137 158 169 185

14.5 125

11.5 16

SS5X5-45TU- Stations B-C6 C8





13.5

L4

Note) The L1 to L4 dimensions of SS5X5-45TD-| Stations | B-\(\superaction\) are identical to those of SS5X5-45TU-| Stations | B-\(\superaction\).

(mm)

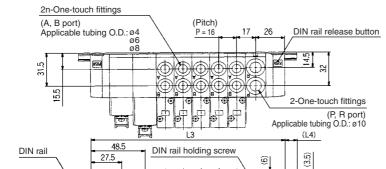
							()
Stations n	2 stations	3	4	5	6	7	8 stations
L1	148	173	185.5	198	210.5	235.5	248
L2	137.5	162.5	175	187.5	200	225	237.5
L3	123	139	155	171	187	203	219
L4	12.5	17	15	13.5	11.5	16	14.5



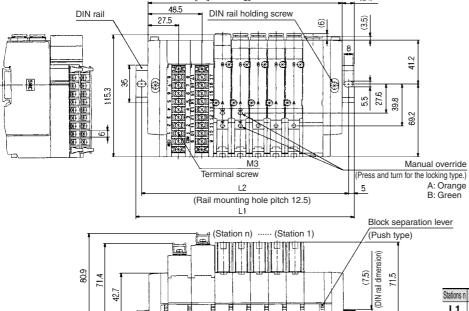


SX5000: 18 Pins Terminal Block/Plug-in

SS5X5-45T1U- Stations D- CR (18 pins)



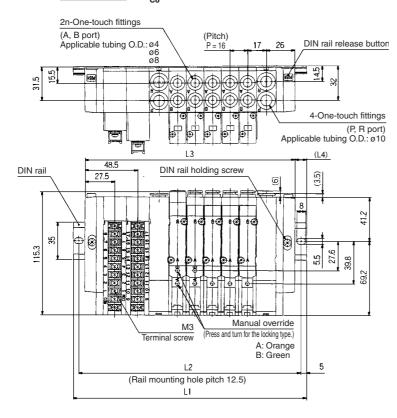




SS5X5-45T1U- Stations B- C4 (18 pins)

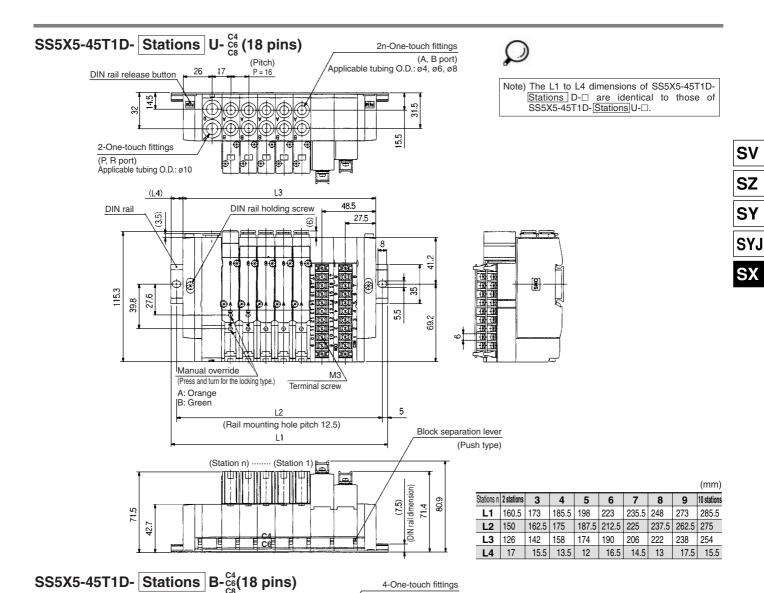
42.7

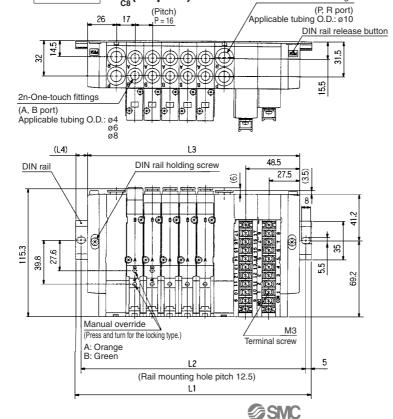
80.9 71.4



								(mm)
Stations n	2 stations	3	4	5	6	7	8	9 stations
L1	173	185.5	210.5	223	235.5	248	273	285.5
L2	162.5	17.5	200	212.5	225	237.5	262.5	275
L3	144	160	176	192	208	224	240	256
L4	14.5	12.5	17	15.5	13.5	12	16.5	14.5
Stations n	10 stations	11	12	13	14	15	16	17 stations
L1	298	323	335.5	348	360.5	385.5	398	410.5
L2	287.5	312.5	325	337.5	350	375	387.5	400
L3	272	288	304	320	336	352	368	384
L4	13	17.5	15.5	14	12	16.5	15	13

(mm) Stations n 2 stations 9 10 stations 5 **L1** 160.5 173 185.5 198 223 235.5 248 273 285.5 **L2** 150 162.5 175 187.5 212.5 225 237.5 262.5 275 **L3** 126 142 158 174 190 206 222 238 254 **L4** 17 15.5 13.5 12 16.5 14.5 13 17.5 15.5

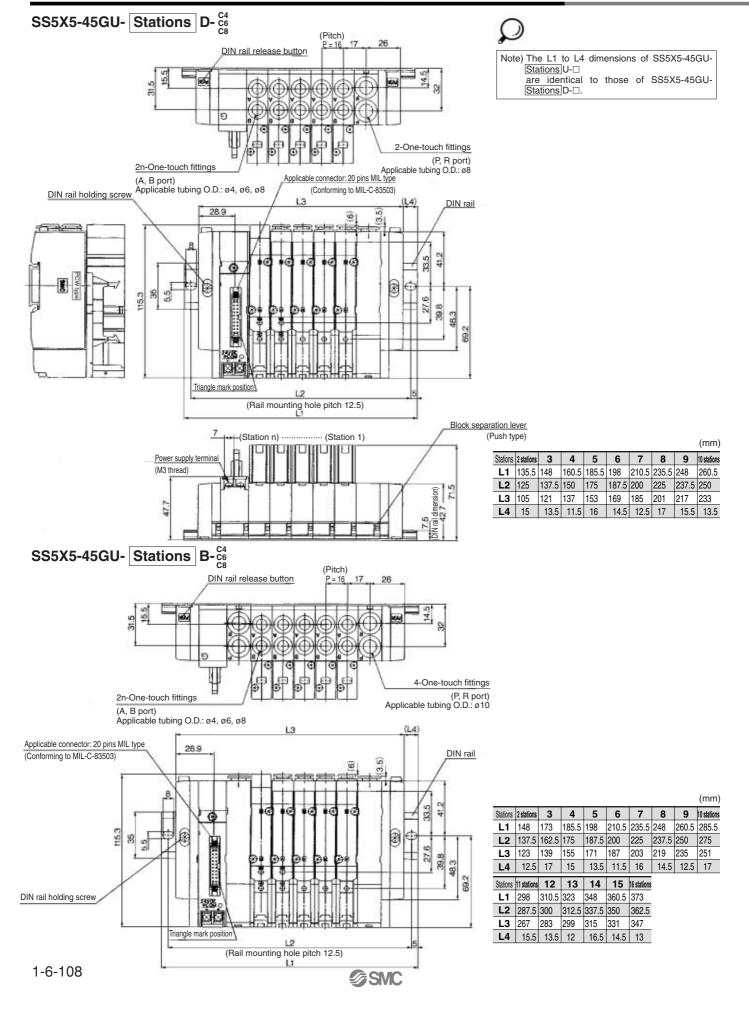




								(mm)
Stations n	2 stations	3	4	5	6	7	8	9 stations
L1	173	185.5	210.5	223	235.5	248	273	285.5
L2	162.5	17.5	200	212.5	225	237.5	262.5	275
L3	144	160	176	192	208	224	240	256
L4	14.5	12.5	17	15.5	13.5	12	16.5	14.5
Stations n	10 stations	11	12	13	14	15	16	17 stations
L1	298	323	335.5	348	360.5	385.5	398	410.5
L2	287.5	312.5	325	337.5	350	375	387.5	400
L3	272	288	304	320	336	352	368	384
L4	13	17.5	15.5	14	12	16.5	15	13



SX5000: PC Wiring System Compatible (Flat ribbon cable type/Plug-in)

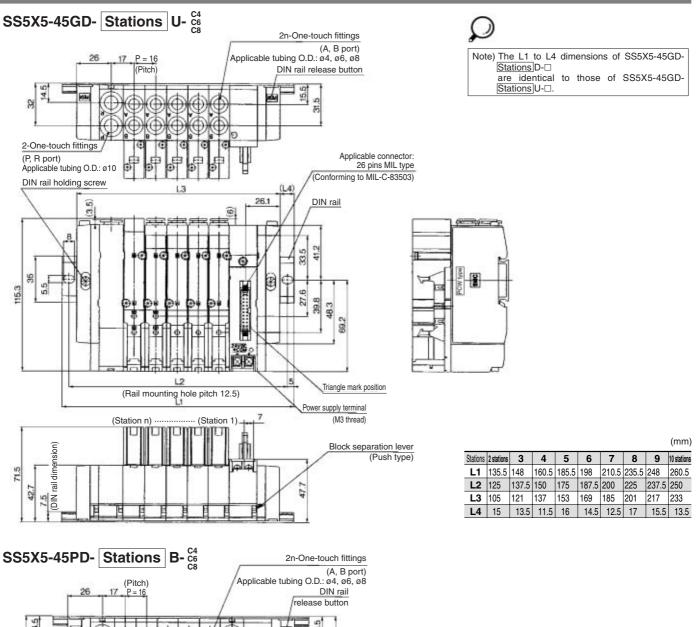


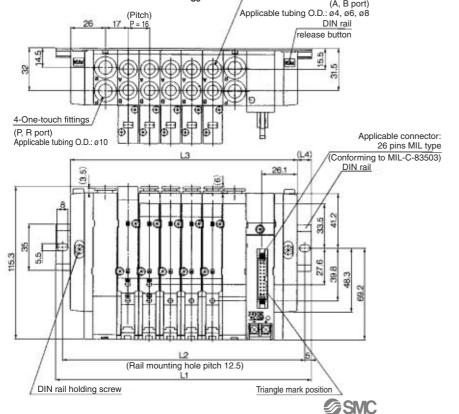
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SY

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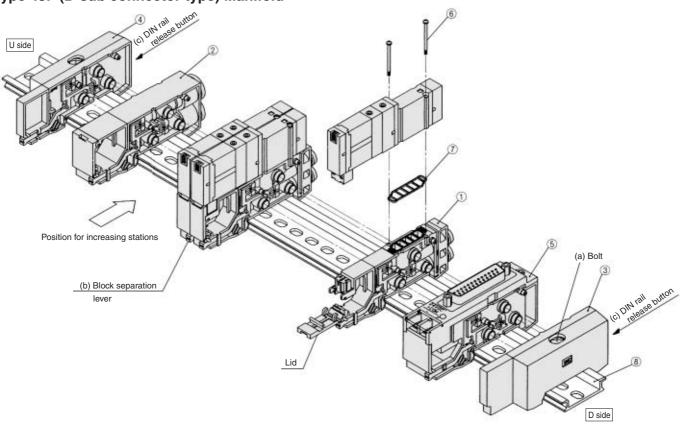


									(mm)
Stations	2 stations	3	4	5	6	7	8	9	10 stations
L1	148	173	185.5	198	210.5	235.5	248	260.5	285.5
L2	137.5	162.5	175	187.5	200	225	237.5	250	275
L3	123	139	155	171	187	203	219	235	251
L4	12.5	17	15	13.5	11.5	16	14.5	12.5	17
Stations	11 stations	12	13	14	15	16 stations			
L1	298	310.5	323	348	360.5	373			
L2	287.5	300	312.5	337.5	350	362.5			
L3	267	283	299	315	331	347			
L4	15.5	13.5	12	16.5	14.5	13			



Exploded View: DIN Rail Manifold

Type 45F (D-sub connector type) Manifold



Replacement Parts

No	Description	Part no.		Note				
No.	Description	SX3000	SX5000	NO.	ote			
1	Manifold block assembly			ers according to an attached lead wire assembly based on the connector in appropriate part number from among the manifold block assembly numbers				
2	SUP/EXH block assembly	(Metric size) SX3000-51-2A (Inch size) SX3000-51-16A	(Metric size) SX5000-51-2A (Inch size) SX5000-51-16A	R, P port SX3000 (Metric size): With One-touch fittings R, P port SX5000 (Metric size): With One-touch fittings				
3	End block assembly	SX3000-52-2A	SX5000-52-2A	For D) side			
4	End block assembly	SX3000-53-2A	SX5000-53-2A	For U side				
5-1	Connector block assembly (For D-sub connector)	SX3000-64-1A	SX5000-64-1A	-1A: +COM -1NA: -COM				
⑤-2	Connector block assembly (For 26 pins flat cable)	SX3000-64-2A _{2NA} -26	SX5000-64- ^{2A} _{2NA} -26		Note)			
⑤-3	Connector block assembly (For 20 pins flat cable)	SX3000-64-2A _{2NA} -20	SX5000-64- ^{2A} _{2NA} -20	-2A: +COM. -2NA: -COM.	24 VDC			
⑤-4	Connector block assembly (For 10 pins flat cable)	SX3000-64- ^{2A} _{2NA} -10	SX5000-64- ^{2A} _{2NA} -10					
⑤-5	Connector block assembly (For 2 to 8 stations (T, T1) terminal block)	SX3000-64-3A	SX5000-64-3A	L				
5-6	Connector block assembly (For 9 to 17 stations (T1) terminal block)	SX3000-64-8A	SX5000-64-8A	In common between +COM and -COM.				
6	Round head combination screw	SX3000-22-2 (M2 x 24)	M3 x 30 (Matt nickel plated)					
7	Gasket	SX3000-57-4	SX5000-57-6					
8	DIN rail	VZ100	0-11-1- <u></u>	Refer to pa	age 1-6-77.			



Note) The numbers ⑤-1 to 4 are for 24 VDC. For 12 VDC, suffix -12V to the parts no. (Example) SX3000-64-1A-12V

Manifold Block Assembly Part No.

Style of manifold	Wiring specifications	Manifold block assembly part no.	Note
For 45(N)F	Double	SX ³ ₅ 000-50-2A-□□	CY2000 (Mahrin sins)
(D-sub connector)	Single	SX ³ ₅ 000-50-3A-□□	• SX3000 (Metric size) (Inch size) C4: With One-touch fitting for ø4 N3: With One-touch fitting for ø5/32"
For 45(N) Eg	Double	SX ³ ₅ 000-50-4A-□□	C6: With One-touch fitting for ø6 N7: With One-touch fitting for ø1/4" X5000 (Metric size) (Inch size)
(Flat ribbon cable)	Single	SX ³ ₅ 000-50-5A-□□	C4: With One-touch fitting for ø4 N3: With One-touch fitting for ø5/32"
For 45 T ₁	Double	SX ³ ₅ 000-50-6A-□□	C6: With One-touch fitting for ø6 N7: With One-touch fitting for ø1/4" C8: With One-touch fitting for ø8 N9: With One-touch fitting for ø5/16"
(Terminal block)	Single	SX ³ ₅ 000-50-7A-□□	(Gasket ⑦ supplied as an accessory.)



How to Increase Manifold Bases

(1) Loosen bolt (a) fixing the manifold base until it begins to turn idly. (While pressing DIN rail release button (c), separate the manifold base from the DIN rail.)

(2) Additional bases are to be added to the U side. Press splitting button (b) of the manifold block assembly on the U side until button (b) locks, and then separate the block assemblies.

(3) Separate the connector block assembly in the same manner as 2, and remove the connector mounting screw shown in Fig. (1).

(4) Loosen the valve mounting screw on the U side, remove the valve, and take out the receptacle housing. (Refer to Fig. (2).)

Insert the common wire (red) of the manifold block assembly to be added into the pin insertion section (N mark) of the receptacle housing that was taken out in 4, mount it on the manifold block, and mount the removed valve.

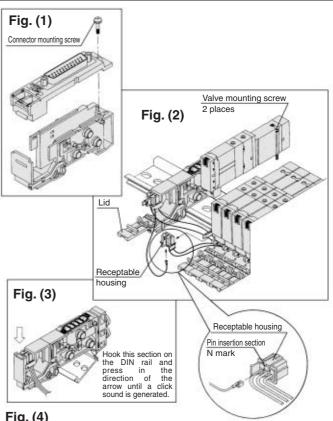
(6) As shown in Fig. (3), mount the additional manifold block assembly on the DIN rail on the U side. Refer to the circuit diagram, and insert the lead wire (SOL.A: Black, SOL.B: White) as shown in Fig. (4).

(7) Press the blocks against each other until a click sound is produced, place the lead wire in the manifold block, and close the lid without pinching the lead wire.

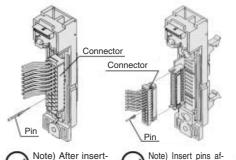
(8) While lightly holding the blocks together so that there are no gaps between them, secure them to the DIN rail by tightening the screws A. (Tightening torque: 1.4 N·m)

∧ Caution

- Depending on the connector, there is a limit to the number of solenoids. When all manifold stations are wired for double solenoid valves, expansion of the manifold may not be possible. Please consult with SMC for more information.
- 2. The manifold block assembly mounting position for additional manifold bases is always on the U side, because wires are connected to respective connectors sequentially from the D side.
- 3. When bolt (a) for the end block is not sufficiently tightened during reassembly, air leakage may result. Before supplying air, check that there is no gap between blocks and that the manifold block is firmly fixed to the DIN rail in order to ensure air supply without leakage.



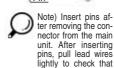
D-sub connector (45F) Flat ribbon cable (45P□) Terminal block (45T)



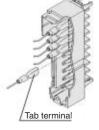
ing pins, pull lead

wires lightly to check that the

pins are locked.



the pins are locked.

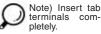


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How to Change Fitting Assembly

Type 45 manifold permits change in the A and B port sizes by changing the manifold block fitting assembly.

After removing the valve, remove the clip with a screwdriver. To mount a new fitting assembly insert it and then insert a clip so it does not come out of the manifold block.

Fitting Assembly Part No.

Metric size

SX3000	One-touch fitting for ø4	VVQ1000-50A-C4
5X3000	One-touch fitting for ø6	VVQ1000-50A-C6
	One-touch fitting for ø4	VVQ1000-51A-C4
SX5000	One-touch fitting for ø6	VVQ1000-51A-C6
	One-touch fitting for ø8	VVQ1000-51A-C8

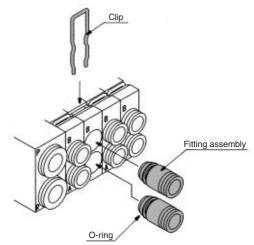
Inch size

SX3000	One-touch fitting for ø5/32"	VVQ1000-50A-N3
583000	One-touch fitting for ø1/4"	VVQ1000-50A-N7
	One-touch fitting for ø5/32"	VVQ1000-51A-N3
SX5000	One-touch fitting for ø1/4"	VVQ1000-51A-N7
	One-touch fitting for a5/16"	VVO1000-51A-N9

Note 1) P and R ports cannot be changed.

Note 2) Use caution that O-rings must be free from scratches and dust.

Otherwise, air leakage may result.



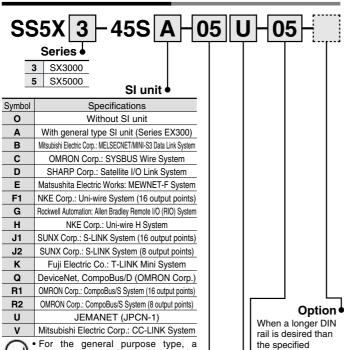




Series SX3000/5000 Base Mounted Manifold Stacking Type DIN Rail Mounted

Serial Transmission Type (Integrated)

How to Order Manifold



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

 Even though when it is not equipped with SI unit, DIN rail length is long enough for future expectancy of mounting SI unit.

Note

Double wiring specifications

Valve stations

SUP/EXH block assembly mounting position

maximum)

stations, specify the

station number to be

required, (20 stations

Symbol	Mounting position	Stations			
U	U side	2 to 10 stations			
D	D side	2 to 10 stations			
В	Both sides	2 to 16 stations			
М	Special s	pecifications			

* For special specifications, indicate separately by the manifold specification sheet.

Port size

One-touch fitting for ø1/4"

Mixed

One-touch fitting for ø5/32"

One-touch fitting for ø5/16"

Mixed

N7 One-touch fitting for ø1/4"

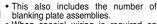
N3 One-touch fitting for ø5/32"

2 stations Applicable up to 16 solenoids. Use the manifold specification sheet to specify the wiring specifications. This shall be implicable up to 16 solenoids. Use the manifold specification sheet to specify the wiring specifications.

Symbol Stations

8 stations

08



 When special wiring is required on manifold with 2 to 8 stations, please use the manifold specification sheet.

A, B port size ← (Metric size)

Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6	SX3000	
M	Mixed		
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6	CVEOO	
C8	One-touch fitting for ø8	SX5000	
M	Mixed		

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

(Inch size)

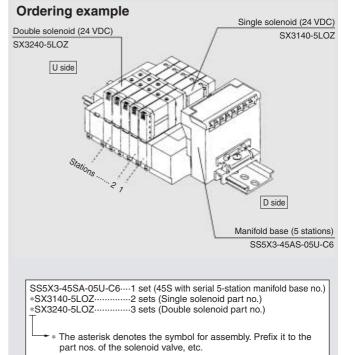
N7

М

N3

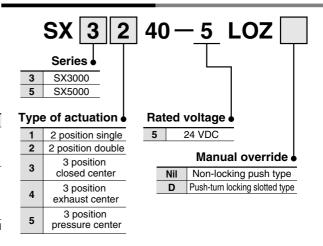
N9

How to Order Valve Manifold Assembly



- They will be assembled in the order listed starting at the first station at the D side whether the connector box is located at either end.
 When ordering with the double wiring specification, specify it in order, beginning with the 1 station on the D side.
- For manifolds with more than 8 stations (9 to 16), special wiring is required. Please use the manifold specification sheet.
- Serial unit can be mounted on D side only.

How to Order Valves



SI Unit Part No.

Symbol	nbol Specifications F		Symbol	Specifications	For SS5X□-45S
Α	A With general type SI unit (Series EX300)		J1	SUNX Corp.: S-LINK System (16 output points)	EX122-SSL1
В	B Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System		J2	SUNX Corp.: S-LINK System (8 output points)	EX122-SSL2
С	OMRON Corp.: SYSBUS Wire System	EX122-STA1	K	Fuji Electric Co.: T-LINK Mini System	EX122-SFU1
D	SHARP Corp.: Satellite I/O Link System	EX122-SSH1	Q	DeviceNet, CompoBus/D (OMRON Corp.)	EX122-SDN1
E	Matsushita Electric Works: MEWNET-F System	EX122-SPA1	R1	OMRON Corp.: CompoBus/S System (16 output points)	EX122-SCS1
F1	NKE Corp.: Uni-wire System (16 output points)	EX122-SUW1	R2	OMRON Corp.: CompoBus/S System (8 output points)	EX122-SCS2
G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System	EX122-SAB1	U	JEMANET (JPCN-1)	EX122-SJN1
н	NKE Corp.: Uni-wire H System	EX122-SUH1	V	Mitsubishi Electric Corp.: CC-LINK System	EX122-SMJ1

Applicable series

SX3000

SX5000

Ground either the reception side or the transmission side

of the shielding wire shield

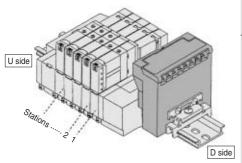
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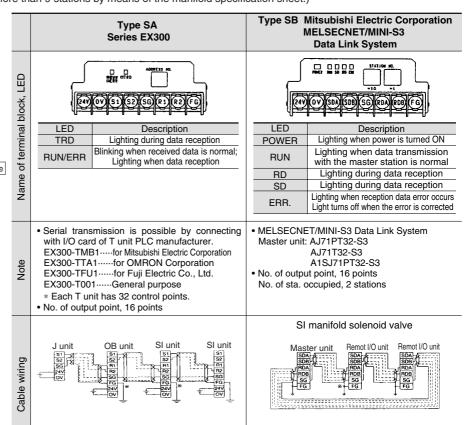
■ The serial transmission system reduces wiring work, while minimizing wiring and saving space.
 ■ Maximum 16 stations (Specify a model with more than 9 stations by means of the manifold specification sheet.)

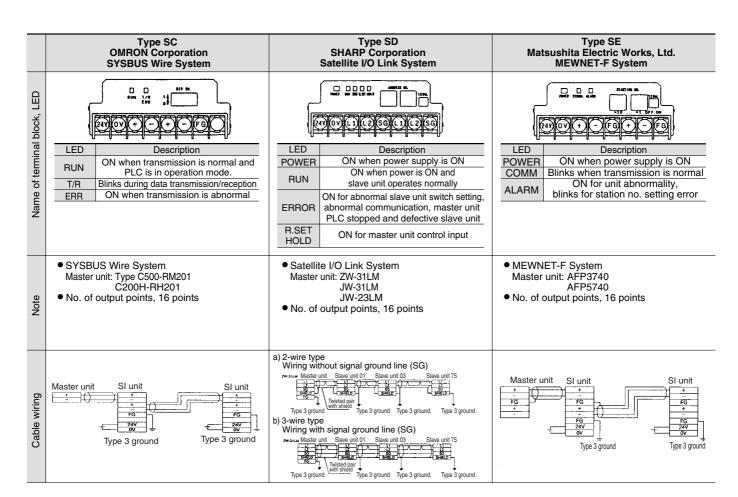


•	Stations a	re counte	d fro	om	stat	ion 1	on the	e D s	ide.
•	Maximum	station:	Uρ	to	16	sole	noids	(16	single

solenoids)

Item	Specifications			
External power supply	24 VDC + 10%/- 5%			
Current consumption (Internal unit)	0.1 A	SA, SB, SD, SE, SF1, SG, SJ1, SJ2, SK, SR1, SR2		
(internal unit)		SC, SQ		

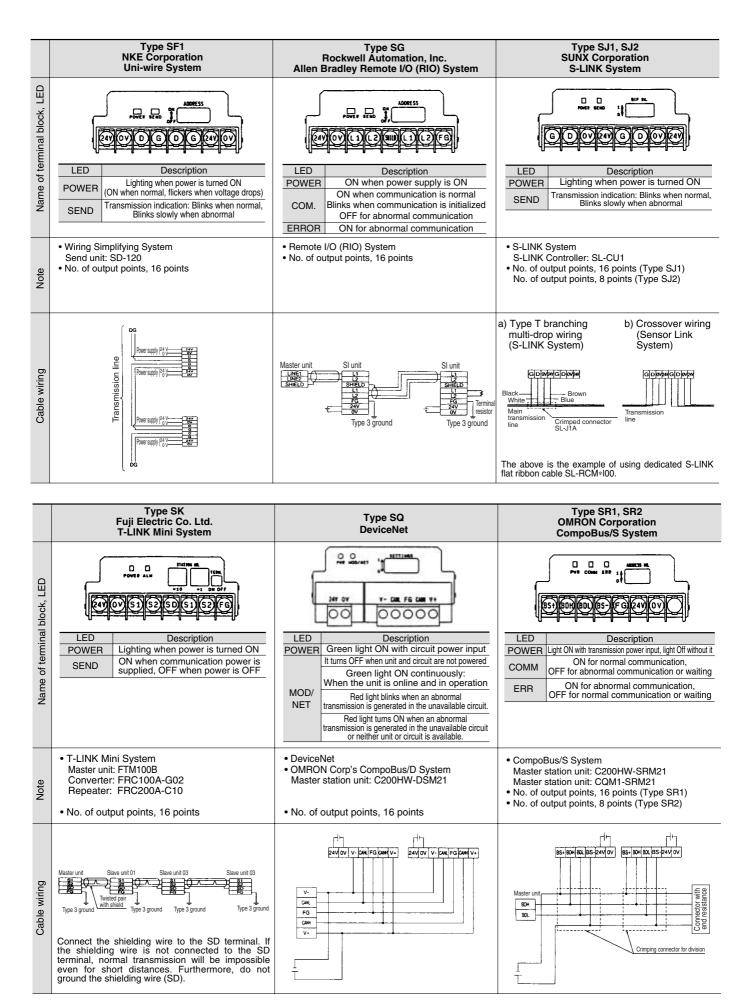


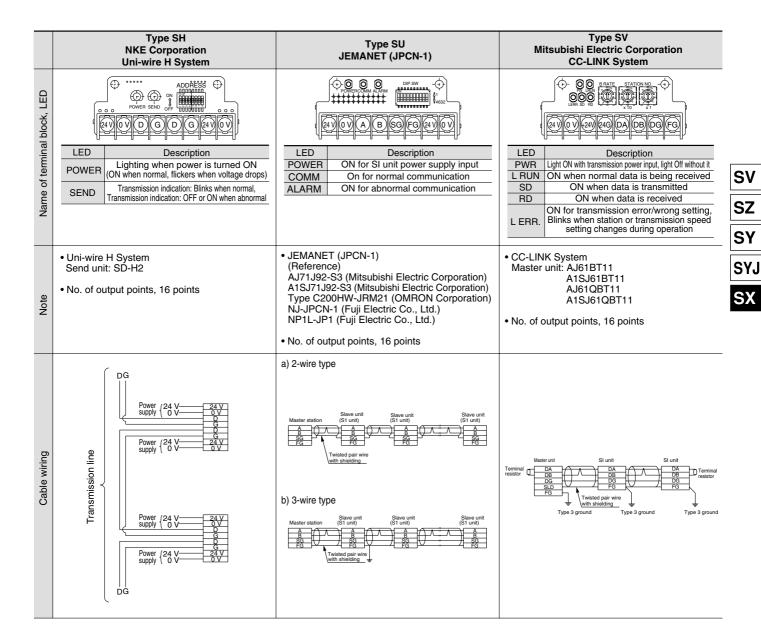


Ground either the reception side or the transmission side

of the shielding wire shield.









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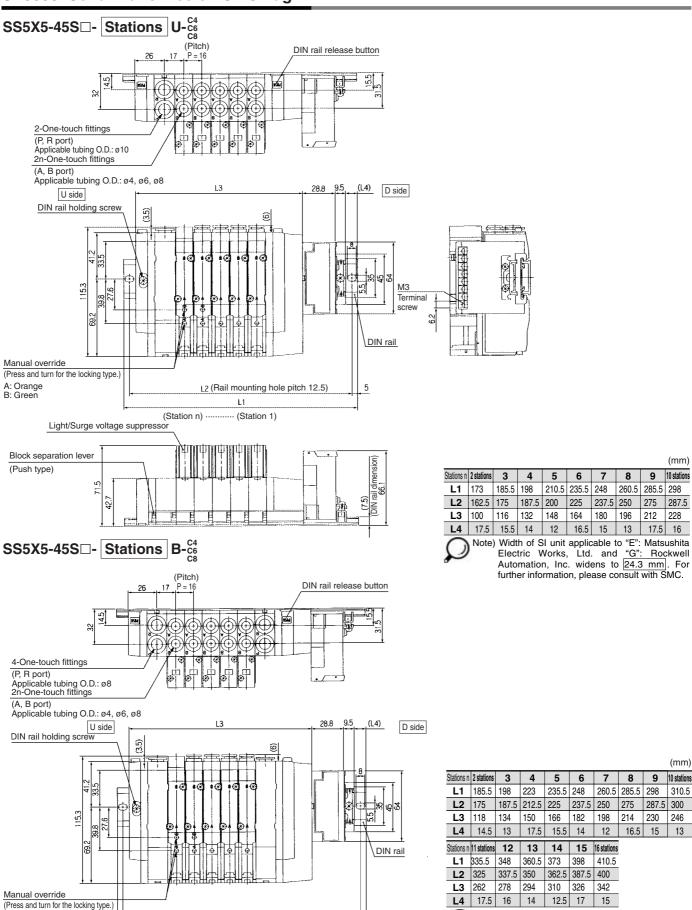
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SX5000: Serial Transmission Unit/Plug-in



L2 (Rail mounting hole pitch 12.5)

B: Green

Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens to 24.3 mm. For

further information, please consult with SMC.



Н

J1

J2

Series SX3000/5000 **Base Mounted Manifold Stacking Type DIN Rail Mounted**



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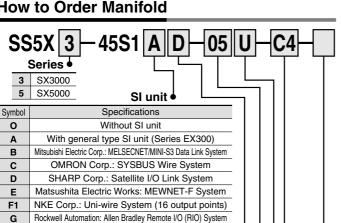
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SX

Serial Transmission Type (Separated)

How to Order Manifold



Fuji Electric Co.: T-LINK Mini System Κ DeviceNet, CompoBus/D (OMRON Corp.) Q OMRON Corp.: CompoBus/S System (16 output points) R1 OMRON Corp.: CompoBus/S System (8 output points) R2 JEMANET (JPCN-1) U Mitsubishi Electric Corp.: CC-LINK System ٧ • For the general purpose type, a transmission unit is

NKE Corp.: Uni-wire H System

SUNX Corp.: S-LINK System (16 output points)

SUNX Corp.: S-LINK System (8 output points)

required on the CPU side. • Even though when it is not equipped with SI unit, DIN rail length is long enough for future expectancy of mounting SI unit.

SI unit mounting position Symbol Mounting position U U side D D side

Valve stations •

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring specifications
08	8 stations	
09	9 stations	Applicable up to 16 solenoids
:	:	Applicable up to 16 solenoids. Use the manifold specification sheet
16	16 stations	to specify the wiring specifications.



- . This also includes the number of blanking plate assemblies
- · When special wiring is required on manifold with 2 to 8 stations, please use the manifold specification sheet.

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations		
U	U side	2 to 10 stations		
D	D side	2 to 10 stations		
В	Both sides	2 to 16 stations		
М	Special specifications			

* For special specifications, indicate separately by the manifold specification sheet.

When a longer DIN rail is desired than

the specified stations, specify the

station number to be required.

A, B port size (Metric size)

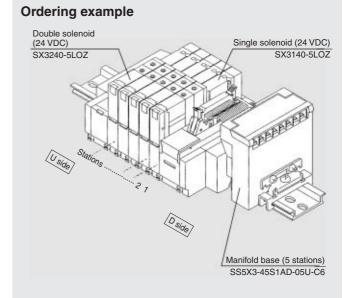
Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SX3000
M	Mixed	
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	075000
C8	One-touch fitting for ø8	SX5000
М	Mixed	

(Inch size)

Symbol	Port size	Applicable series	
N3	One-touch fitting for ø5/32"		
N7	One-touch fitting for ø1/4"	SX3000	
M	Mixed		
N3	One-touch fitting for ø5/32"		
N7	One-touch fitting for ø1/4"	SX5000	
N9	One-touch fitting for ø5/16"	3/3000	
M	Mixed		

In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

How to Order Valve Manifold Assembly



SS5X3-45S1AD-05U-C6... 1 set (45S1 with serial 5-station manifold base no.) *SX3140-5LOZ.....2 sets (Single solenoid part no.) *SX3240-5LOZ-----3 sets (Double solenoid part no.)

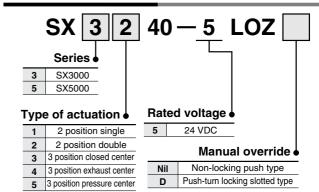
The asterisk denotes the symbol for assembly. Prefix it to the part nos, of the solenoid valve, etc.

- They will be assembled in the order listed starting at the first station at the D side whether the connector box is located at either end.

 When ordering with the double wiring specification, specify it in order, beginning with the 1 station on the D side.

 For manifolds with more than 8 stations (9 to 16), special wiring is
- required. Please use the manifold specification sheet.

How to Order Valves



(20 stations maximum) SI Unit Part No

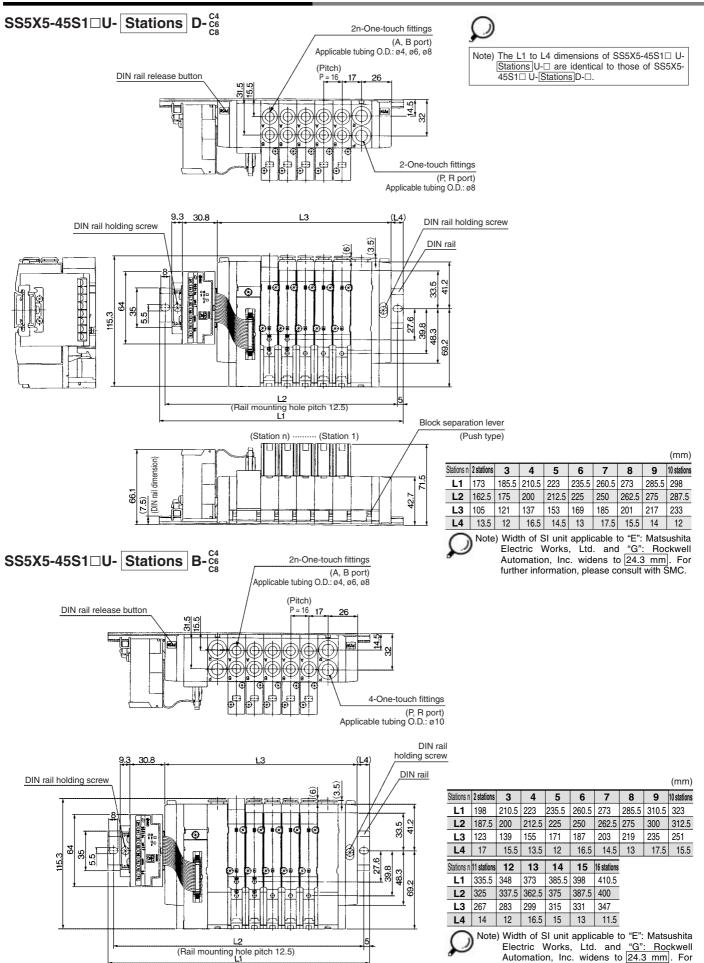
Option

SI OIIIL PAIT NO.								
	Symbol	Specifications	For SS5X□-45S	Symbol	Specifications	For SS5X□-45S		
	Α	With general type SI unit (Series EX300)	nit (Series EX300) EX321-S001		SUNX Corp.: S-LINK System (16 output points)	EX121-SSL1		
	В	Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System	EX321-S001 J2		SUNX Corp.: S-LINK System (8 output points)	EX121-SSL2		
	С	OMRON Corp.: SYSBUS Wire System	EX121-STA1	K	Fuji Electric Co.: T-LINK Mini System	EX121-SFU1		
	D	SHARP Corp.: Satellite I/O Link System	EX121-SSH1	Q	DeviceNet, CompoBus/D (OMRON Corp.)	EX121-SDN1		
	E	Matsushita Electric Works: MEWNET-F System	FY101-SDA1 II D		OMRON Corp.: CompoBus/S System (16 output points)	EX121-SCS1		
	F1	NKE Corp.: Uni-wire System (16 output points)	EX121-SUW1	DO.	OMRON Corp.:	EX121-SCS2		
	G	Rockwell Automation:	EX121-SAB1	R2	CompoBus/S System (8 output points)	LA121-3032		
	G	Allen Bradley Remote I/O (RIO) System	L EXIZI-SABI		JEMANET (JPCN-1)	EX121-SJN1		
	Н	NKE Corp.: Uni-wire H System	EX121-SUH1	V	Mitsubishi Electric Corp.: CC-LINK System	EX121-SMJ1		



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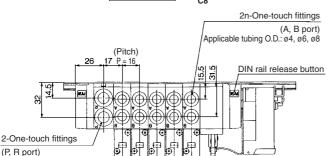
SX5000: Serial Transmission Unit/Plug-in

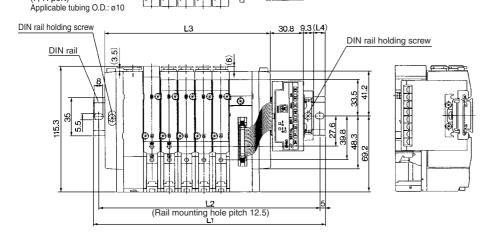


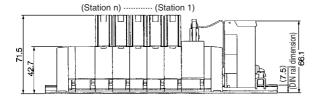
SMC

further information, please consult with SMC.



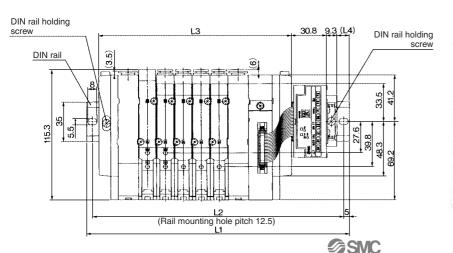






SS5X5-45S1 D- Stations B-C4 C8 2n-One-touch fittings (A, B port) Applicable tubing O.D.: ø4, ø6, ø8

4-One-touch fittings (Pitch) DIN rail release button graph (Pitch) P = 16 (Pitch) P =





Note) The L1 to L4 dimensions of SS5X5-45S1□ D-Stations D-□ are identical to those of SS5X-45S1□ D-□ Stations U-□.

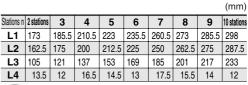
SV

SZ

SY

SYJ

SX



Note) Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens to [24.3 mm]. For further information, please consult with SMC.

									(mm)
Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	198	210.5	223	235.5	260.5	273	285.5	310.5	323
L2	187.5	200	212.5	225	250	262.5	275	300	312.5
L3	123	139	155	171	187	203	219	235	251
L4	17	15.5	13.5	12	16.5	14.5	13	17.5	15.5
Stations n	11 stations	12	13	14	15	16 stations			
L1	335.5	348	373	385.5	398	410.5			
L2	325	337.5	362.5	375	387.5	400			
L3	267	283	299	315	331	347			
L4	14	12	16.5	15	13	11.5			

Note) Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens to 24.3 mm. For further information, please consult with SMC.





Made to Order Specifications:

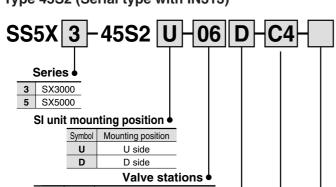
Series SX3000/5000 Serial Transmission Type

With SMC's IN313

Serial Transmission Manifold Equipped with IN313

How to Order Manifold

Type 45S2 (Serial type with IN313)



Symbol Stations		Note		
02	2 stations			
:	:	Double wiring specifications		
08	8 stations			
09	9 stations	Applicable up to 16 sole-		
:	÷	Applicable up to 16 sole- noids. Use the manifold specification sheet to speci- fy the wiring specifications.		
16	16 stations	fy the wiring specifications.		



- This also includes the number of blanking plate assemblys.
- When special wiring is required on manifold with 2 to 8 stations, please use the manifold specification sheet.

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations			
U	U side	2 to 10 stations			
D	D side	2 to 10 stations			
В	Both sides	2 to 16 stations			
M	Special specifications				

For special specifications, indicate separately by the manifold specification sheet.

A, B port size (Metric size)

Symbol	Port size	Applicable series	
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6	SX3000	
M	Mixed		
C4	One-touch fitting for ø4		
C6	One-touch fitting for ø6	SX5000	
C8	One-touch fitting for ø8	5,5000	
M	Mixed		

(Inch size)

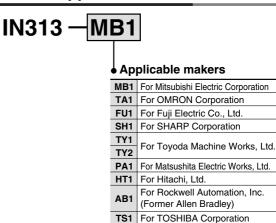
Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX3000
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	3/3000
M	Mixed	

In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

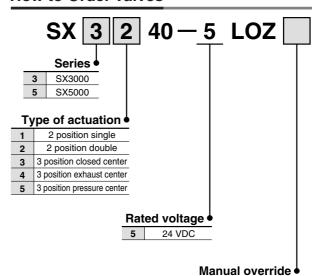
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

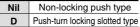
Option 6

How to Order Applicable SI Unit



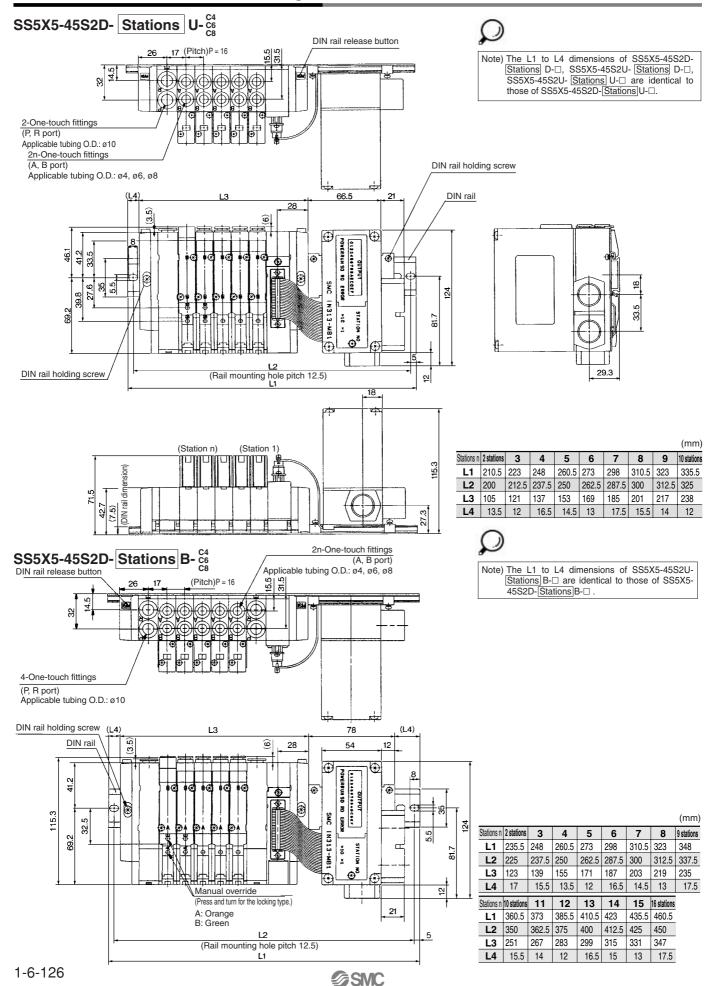
How to Order Valves







SX5000: Serial Transmission Unit/Plug-in





Made to Order Specifications: Series SX3000/5000 Serial Transmission Type



SV

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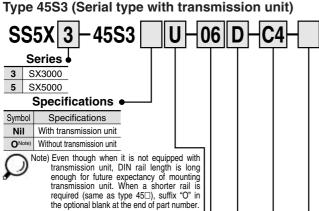
SYJ

With OMRON Corp's G71-OD16

Serial Transmission Manifold Equipped with OMRON Corp's Transmission Unit G71-OD16

How to Order Manifold

Type 45S3 (Serial type with transmission unit)



Transmission unit mounting position

Valve stations •

Symbol Stations		Note	
02	2 stations		
÷	:	Double wiring specifications	
08	8 stations		
09	9 stations	Applicable up to 16 sole- noids. Use the manifold	
÷	:	noids. Use the manifold specification sheet to speci-	
16	16 stations	specification sheet to speci- fy the wiring specifications.	



This also includes the number of blanking plate assemblies.
When special wiring is required on manifold with 2 to 8 stations, please use the manifold specification sheet

SUP/EXH block assembly mounting position

Symbol	Mounting position	Stations	
U	U side	2 to 10 stations	
D	D side	2 to 10 stations	
В	Both sides	2 to 16 stations	
М	Special specifications		

* For special specifications, indicate separately by the manifold specification sheet

A, B port size • (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6 One-touch fitting for ø6		SX3000
M Mixed		
C4 One-touch fitting for ø4		
C6	One-touch fitting for ø6	OVEGGG
C8 One-touch fitting for ø8		SX5000
М	Mixed	

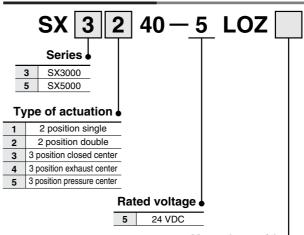
(Inch size)

(111011 0120)					
Symbol	Port size	Applicable series			
N3	One-touch fitting for ø5/32"				
N7	One-touch fitting for ø1/4"	SX3000			
M Mixed					
N3	One-touch fitting for ø5/32"				
N7	N7 One-touch fitting for Ø1/4"				
N9	N9 One-touch fitting for ø5/16"				
М	Mixed				

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

Option When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)

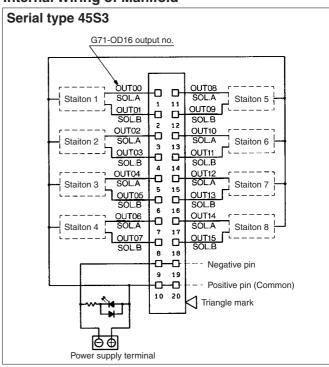
How to Order Valves



Manual override

Nil	Non-locking push type	
D	Push-turn locking slotted type	

Internal Wiring of Manifold



- For specifications on OMRON Corp's transmitter terminals, refer to the instruction manual or the catalog of transmitter terminals, etc.
 When using a single solenoid, connect wire to A side.
 The above diagram is the double wiring specifications for up to 8 stations. When the wiring specifications are specified on the manifold specification sheet, the valve assignment for the number of transmission unit will differ from the above diagram. For more information, please contact SMC.
 The maximum number of stations is 16 in terms of manifold bases, as well as solenoids. (Please consult with SMC for more stations.)

∕ Caution

 The wiring specifications for SS5X₅-45S30 are different from those for SS5X 5 -45PG.



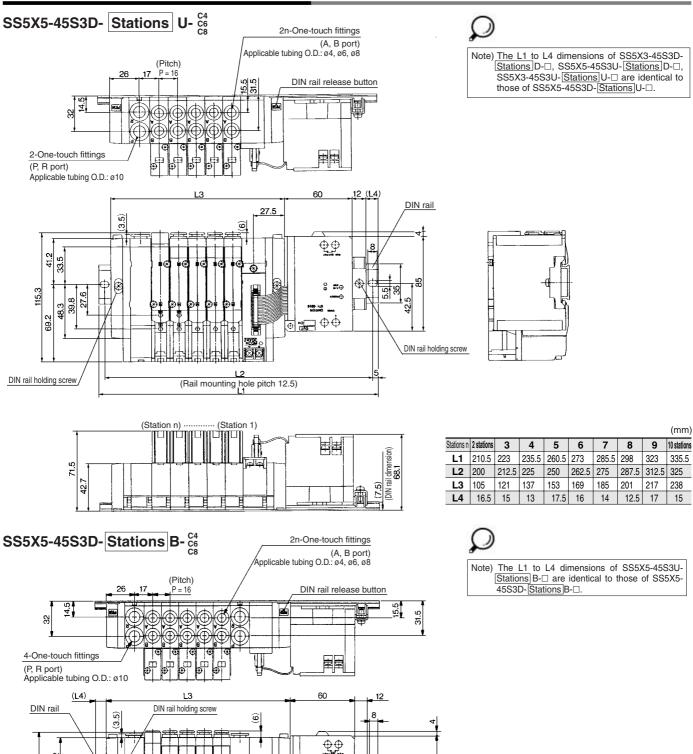
SV

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SX5000: Serial Transmission Unit/Plug-in



SMC

	(L4) _	L3	60	, 12
DIN rail	$\neg $	DIN rail holding screw	9	8 4
115.3	39.8	Manual override	S Price Standard Stan	42.5 38
		(Press and turn for the locking type.)	M3 Rail stopper TXE1-SMC	
		B. Green		5
		(Rail mounting hol	le pitch 12.5)	
	L	L1		
	-			7

								(mm)
Stations n	2 stations	3	4	5	6	7	8	9 stations
L1	223	235.5	260.5	273	285.5	310.5	323	335.5
L2	212.5	225	250	262.5	275	300	312.5	325
L3	123	139	155	171	187	203	219	235
L4	14	12	16.5	15	13	17.5	16	14
Stations n	10 stations	11	12	13	14	15	16 stations	
L1	348	373	385.5	398	410.5	435.5	448	
L2	337.5	362.5	375	387.5	400	425	437.5	
L3	251	267	283	299	315	331	347	
L4	12.5	17	15	13.5	11.5	16	14.5	



Made to Order Specifications:

Series SX3000/5000



External pilot manifold bases for low-pressure/vacuum use are added to split style/DIN rail manifolds. The built-in silencer has produced a clear-cut appearance.

Individual Wiring

How to Order Manifold

Type 45 $SS5X_{5}^{3}-45-05||U||R|$ Series • SX3000 SUP/EXH block assembly **5** SX5000 mounting position Option When a longer DIN rail is de-sired than the Valve stations • Symbol Mounting position Stations Symbol Stations U U side 2 to 10 stations specified sta-tions, specify the 02 2 stations D D side Both sides 2 to 20 stations В station number to be required. 20 20 stations Special specifications This also For special specifications, stations maximum) includes the indicate separately by the manifold specification sheet number of blanking SUP/EXH block assembly plate assemblies. specifications Specifications Symbol R External pilot specifications s Internal pilot/Built-in silencer RS External pilot/Built-in silencer

A, B port size (Metric size)

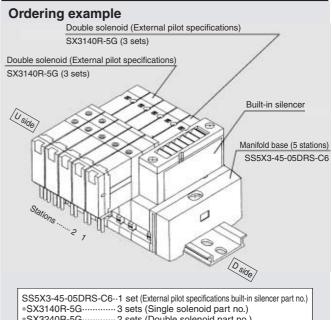
<u> </u>		
Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SX3000
М	Mixed	
C4	One-touch fitting for ø4	
C6 One-touch fitting for Ø8		075000
C8 One-touch fitting for ø8		SX5000
M	Mixed	

(Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX3000
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	
M	Mixed	

^{*} In the case of mixed specifications (M), indicate separately on the manifold

How to Order Valve Manifold Assembly



*SX3240R-5G-----2 sets (Double solenoid part no.)

*The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

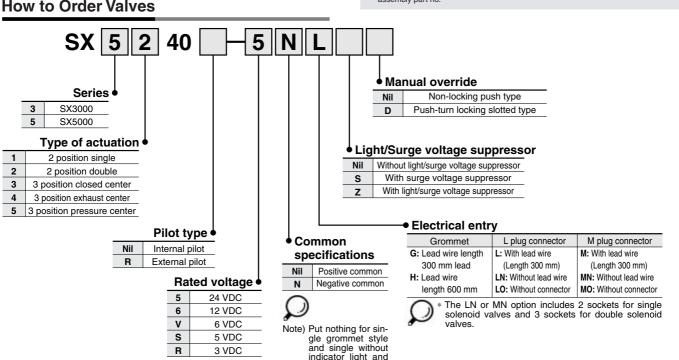
They will be assembled in the order listed starting at the first station at the D side

even if SUP/EXH block assembly is located at either end. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the Manifold Specification Sheet to instruct us.

For manifolds with SUP/EXH block at each end of the manifold, external pilot ports and silencers will be also located at each end of the manifold.

To order the SUP/EXH block assembly (SX3/5000-51-1A) mounted at a location order than the ends of manifold, refer to the manifold specification sheet along with assembly part no.

How to Order Valves





surge voltage suppresser

SV

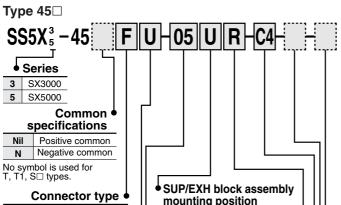
SZ

SY

SYJ

Plug-in Type

How to Order Manifold



Connector typ		
	Symbol	Mounting position
	F	D-sub connector

F D-sub connector		
Р	Flat ribbon cable 26 pins	
PG Flat ribbon cable 20 p		
PH Flat ribbon cable 10 pin		
Т	Terminal block 9 pins	
T1 Terminal block 18 pins		
G	Flat ribbon cable (PC wiring system compatible)	
S Serial Transmission Type		
For details, refer to pages 1-6-82 to 85, 112, 119, 124, and 127.		

Connector mounting position

Symbo	Mounting position	
U	U side	
D	D side	

mounting position

Symbol	Mounting position	Stations	
U	U side	0.1- 40 -1-1	
D	D side	2 to 10 stations	
В	Both sides 2 to 20 stations		
M	Special specifications		

For special specifications, indicate separately by the

SUP/EXH block assembly specifications

Symbol		
	External pilot specifications	
S Internal pilot/Built-in siler		
RS	External pilot/Built-in silencer	

Symbol	Stations	Note	
02	2 stations	Depending on the connector,the number of stations is limited. For details, refer to pages 1-6-82 to 85, 112, 119, 124, and 127.	
:	:		
20	20 stations		
• This also includes the number of blanking plate assemblies.			

A, B port size ●

(Metric size)			
nbol	Port size	App	
4	One-touch fitting for ø4		
6	One-touch fitting for ø6	5	
		1	

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6		
M		
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
M	Mixed	

(Inch size)

	•	
Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4" SX300	
M	Mixed	
N3	One-touch fitting for ø5/32"	
N7	One-touch fitting for ø1/4"	
N9	One-touch fitting for ø5/16" SX5000	
M	Mixed	

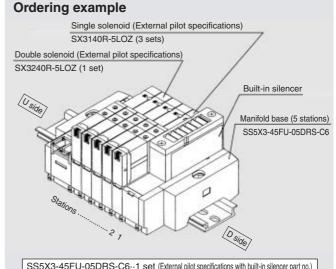
* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

Voltage ● Nil 24 VDC 12V 12 VDC

Option •

When a longer DIN rail is desired than the specified stations, specify the station number to be (20 stations maximum)

How to Order Valve Manifold Assembly



SS5X3-45FU-05DRS-C6--1 set (External pilot specifications with built-in silencer part no.) *SX3140R-5LOZ-------3 sets (Single solenoid part no.) *SX3240R-5LOZ----- 2 sets (Double solenoid part no.)

* The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

They will be assembled in the order listed starting at the first station at the D side even if SUP/EXH block assembly is located at either end.

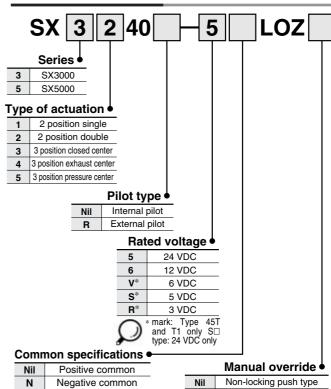
In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the Manifold Specification Sheet to instruct us.

For manifolds with SUP/EXH block at each end of the manifold, external pilot ports

and silencers will be also located at each end of the manifold.

To order the SUP/EXH block assembly (SX3/5000-51-2A) mounted at a location other than the ends of manifold, refer to the manifold specification sheet.

How to Order Valves

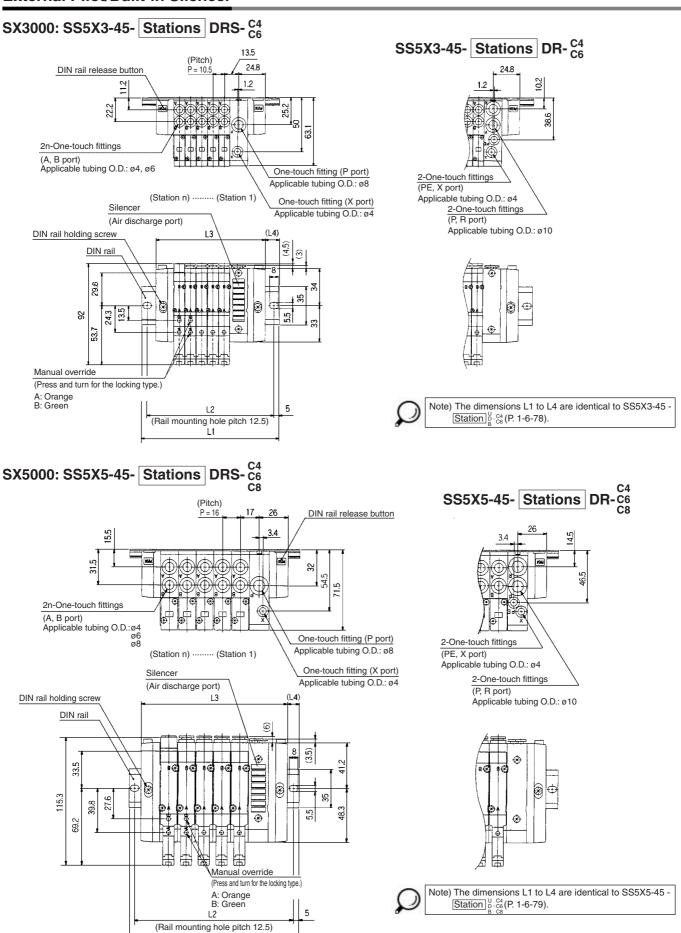


* Common specifications for the valve must correspond with common specifications for the manifold.

Nil Non-locking push type D Push-turn locking slotted type



External Pilot/Built-in Silencer



L1

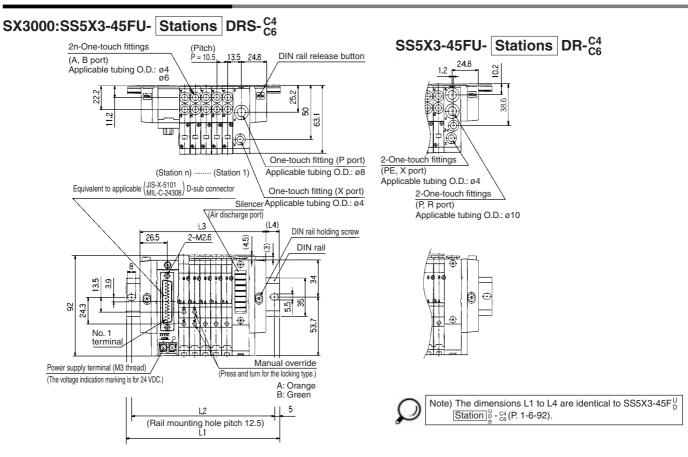
Made to Order Specifications Series SX3000/5000 Type

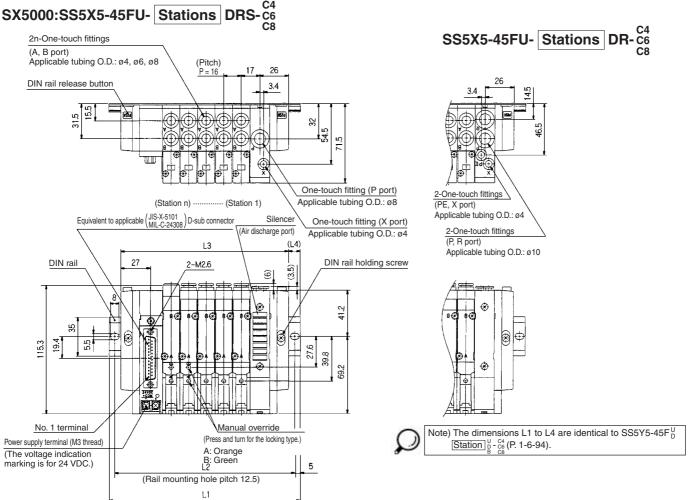
SV

SZ

SYJ

External Pilot/Built-in Silencer





SMC



Made to Order Specifications: Series SX3000/5000



Mixed Mounting

Non plug-in type

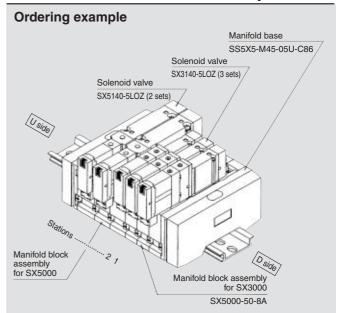
This manifold makes it possible to mount SX3000 onto base of SX5000.

How to Order Manifold Type M45 (Mixed mounting type) SS5X5-M45-05 Mixed mounting style Valve stations SUP/EXH block assembly mounting position Symbol Stations Option 02 2 stations Symbol Mounting position Stations When a longer U side DIN rail is desired 2 to 10 stations than the specified 20 20 stations D D side stations, specify This also in-В Both sides | 2 to 20 stations the station number Special specifications to be required. For special specifications, indicate sepa-(20 stations rately by the manifold specification sheet sembly. maximum) SUP/EXH block assembly specifications Symbol Specifications Standard/Internal pilot specifications S Built-in silence External pilot specifications are unavailable for mixed mounting style. A, B port size (Metric size) (Inch size)

•	<u> </u>		<u> </u>
Symbol	Port size	Symbol	Port size
C44	SX5000: One-touch fitting for ø4 SX3000: One-touch fitting for ø4	N33	SX5000: One-touch fitting for ø5/32" SX3000: One-touch fitting for ø5/32"
C46	SX5000: One-touch fitting for ø6 SX3000: One-touch fitting for ø6	N37	SX5000: One-touch fitting for ø5/32" SX3000: One-touch fitting for ø1/4"
C64	SX5000: One-touch fitting for ø6 SX3000: One-touch fitting for ø4	N73	SX5000: One-touch fitting for ø1/4" SX3000: One-touch fitting for ø5/32"
C66	SX5000: One-touch fitting for ø8 SX3000: One-touch fitting for ø6	N77	SX5000: One-touch fitting for Ø1/4" SX3000: One-touch fitting for Ø1/4"
C84	SX5000: One-touch fitting for ø8 SX3000: One-touch fitting for ø4	N93	SX5000: One-touch fitting for ø5/16" SX3000: One-touch fitting for ø5/32"
C86	SX5000: One-touch fitting for ø4 SX3000: One-touch fitting for ø6	N97	SX5000: One-touch fitting for ø5/16" SX3000: One-touch fitting for ø1/4"
М	Mixed	M	Mixed

^{*} In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

How to Order Valve Manifold Assembly



SS5X5-M45-05U-C86····· 1 set (Type M45 manifold base no.)

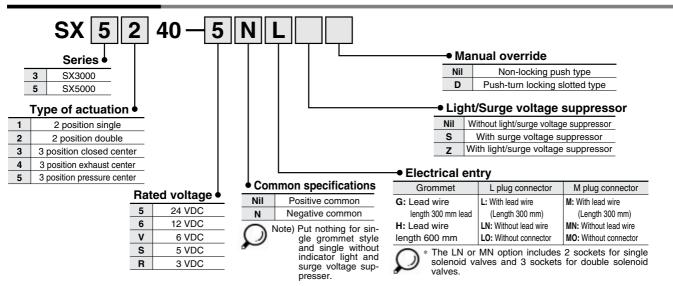
*SX3140-5LOZ··········· 3 sets (Single solenoid part no.)

*SX5140-5LOZ········· 2 sets (Single solenoid part no.)

→ *The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

They will be assembled in the order listed starting at the first station at the D side even if SUP/EXH block assembly is located at either end. In ordering, specify the part nos. in the order from the 1st. station on D side. Besides, when the arrangement will be complicated, fill out the Manifold Specification Sheet to instruct us.

How to Order Valves





Made to Order Specifications Series \$\int X3000/5000 \quad \text{Iype}



SV

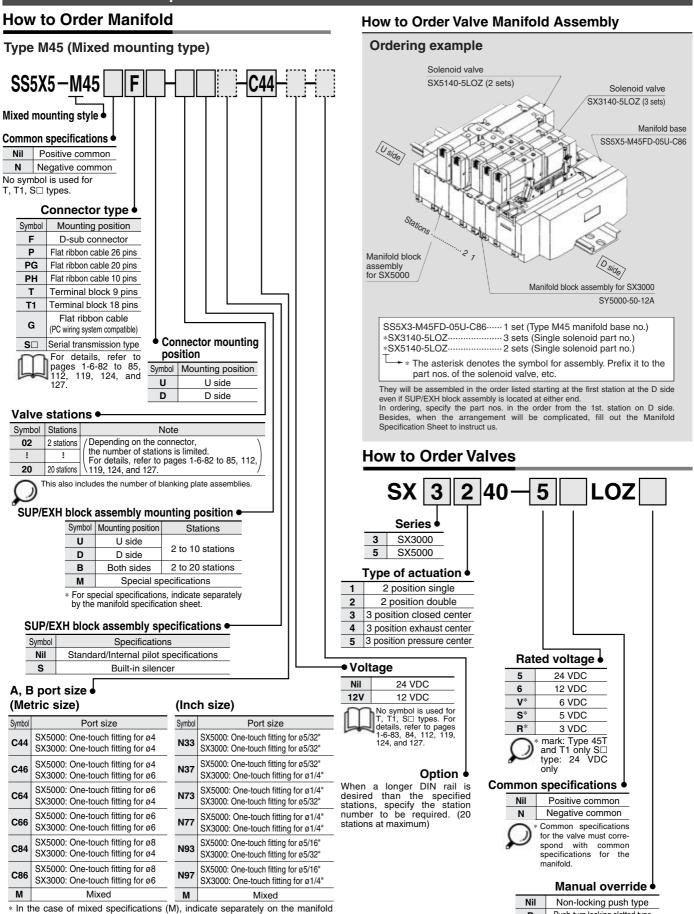
SZ

SYJ

Plug-in type

specification sheet.

This manifold makes it possible to mount SX3000 onto base of SX5000.



Push-turn locking slotted type

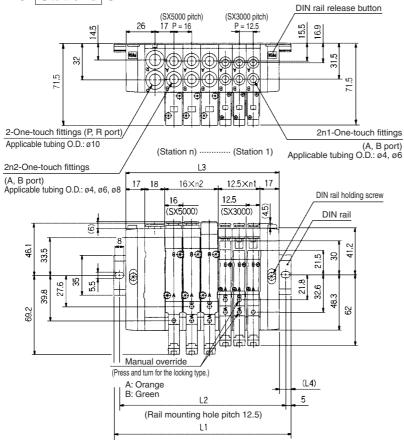
D



(Non plug-in type)

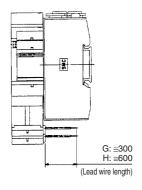
Dimensions: Mixed Mounting

SS5X5-M45- Stations U

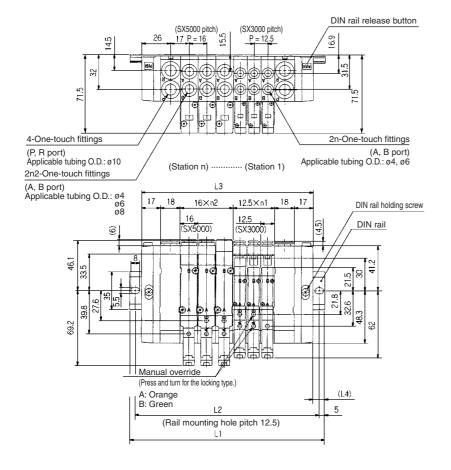


L dimension: Formulae for L1 to L4 L3 = $12.5 \times n1 + 16 \times n2 + 52$ M = $(\frac{L3}{12.5} + 1)$ Omit decimals L1 = $12.5 \times M + 23$ L2 = L1 - 10.5 L4 = (L1 - L3)/2

n1: Number of SX3000's stations n2: Number of SX5000's stations



SS5X5-M45- Stations B



L dimension: Formulae for L1 to L4 L3 = 12.5 x n1 + 16 x n2 + 70 M = $\left(\frac{L3}{12.5} + 1\right)$ Omit decimals L1 = 12.5 x M + 23 L2 = L1 - 10.5 L4 = (L1 - L3)/2

n1: Number of SX3000's stations n2: Number of SX5000's stations

Made to Order Specifications Series SX3000/5000



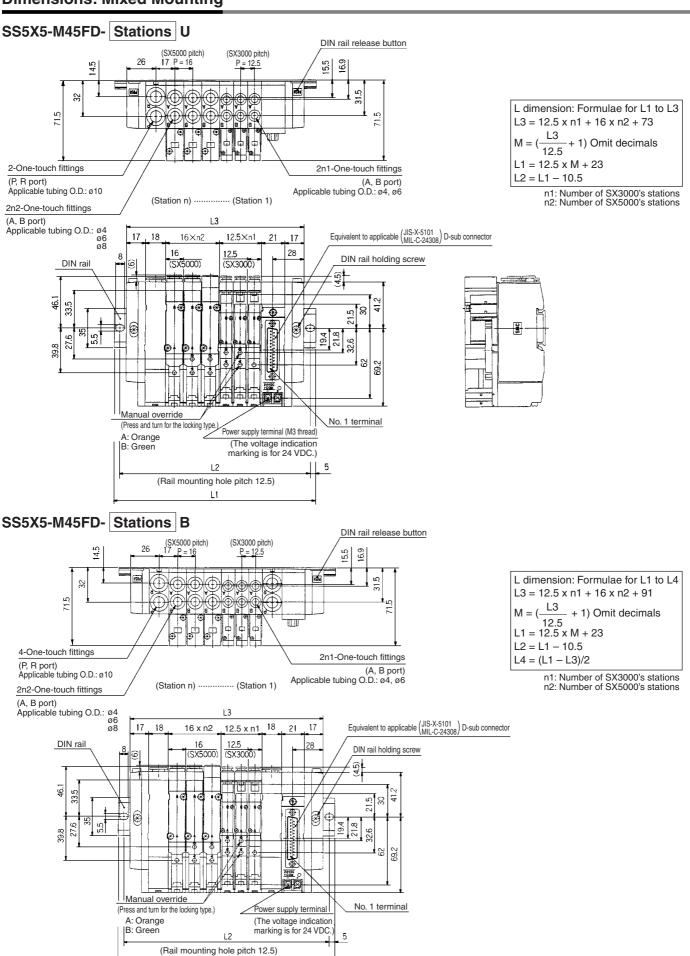
SV

SZ

SYJ

(Non plug-in type)

Dimensions: Mixed Mounting





Series SX3000/5000/7000 Made to Order Specifications:

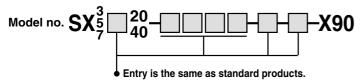
Symbol

Main Valve Fluoro Rubber Specifications -X90

Fluoro rubber is used for rubber parts of the main valve to allow use in applications such as the following.

- When using a lubricant other than the recommended turbine oil, and there is a possibility of malfunction due to swelling of the spool valve seals.
- 2. When ozone enters or is generated in the air supply.

Applicable solenoid valves: Series $SX3\square_4^20$, $SX5\square_4^20$, $SX7\square_4^20$



The specifications and performance are the same as those of standard models.



Note) Because in series -X90 fluoro rubber is used for only main valve, the rubber parts of the application/usage in conditions requiring heat resistance should be avoided.



