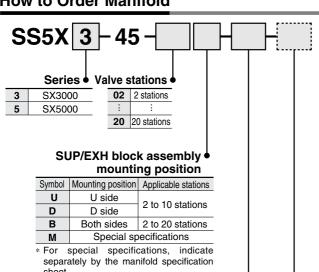


Series SX3000/5000 Base Mounted Manifold Stacking Type DIN Rail Mounted Individual Wiring

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	3/3000	
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
М	Mixed	

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

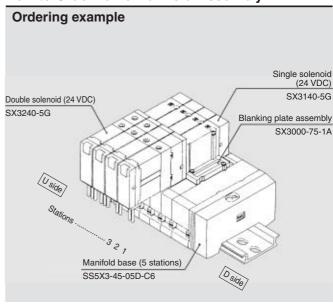
Option •

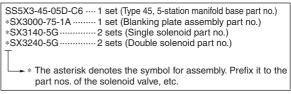
When a longer DIN rail is desired than the specified stations, specify the station number to be required. (20 stations at maximum)



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

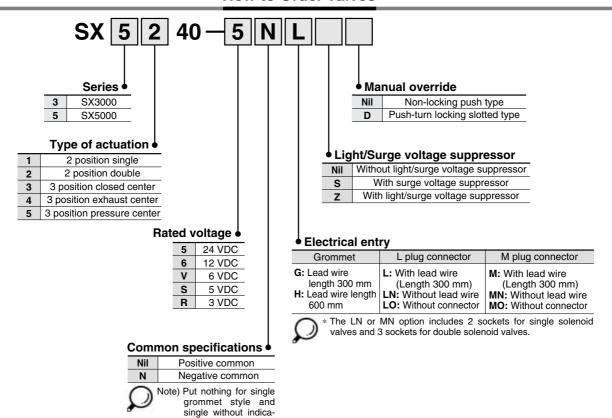
How to Order Valve Manifold Assembly





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.

How to Order Valves



tor light and surge voltage suppresser.

sv

SZ

SY

cv



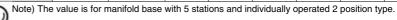
Manifold Specifications

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	Base			
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.

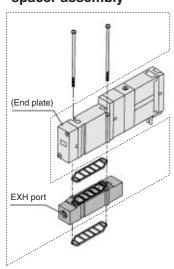
Flow Characteristics

	Port size		Flow characteristics						
			$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$			
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	

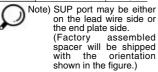


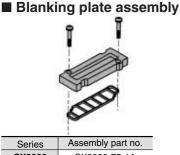
Manifold Option

■ Individual SUP spacer assembly



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





	3.3
Series	Assembly part no.
SX3000	SX3000-75-1A
SX5000	SX5000-76-5A

■ 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.

■ Individual EXH

(End plate)

SUP port

Series | Assembly part no. | Port size **SX3000** SX3000-39-2A M5 x 0.8

Note) The EXH port may be either on the lead wire

side or on the end plate

Nil

F

N

т

* Thread type

Rc

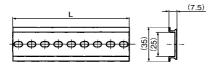
G

NPT NPTF

SX5000 SX5000-39-16®A

side.

spacer assembly



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					

■ 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

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SYJ

SX

	7.000.2
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.

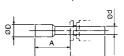


Series	Model	Effective area	Α	В	С
SX3000 (ø8)	AN203-KM8	14 mm ²	ø16	26	51
CVE000 (-:40)	AN200-KM10	26 mm ²	ø22	53.8	80.8
SX5000 (ø10)	AN300-KM10	30 mm ²	ø25	70	97

■ 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

Difficitorio	•			
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

⚠ Caution

Mounting screw tightening torques

M2: 0.17 N·m M3: 0.8 N·m M4: 1.4 N·m

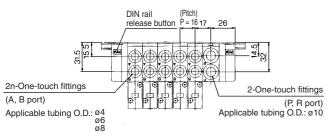
\land Warning

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.

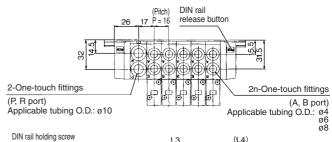


Dimensions: Series SX5000

SS5X5-45- Stations D-C68



SS5X5-45- Stations U-C4

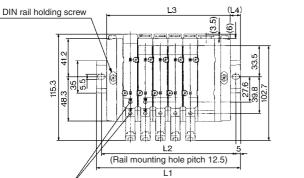


SZ

SYJ

(mm)

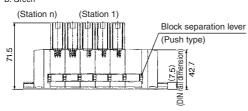
SV



(Press and turn for the locking type.)

A: Orange B: Green

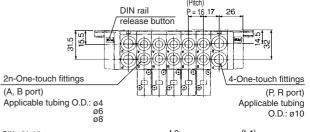
Manual override

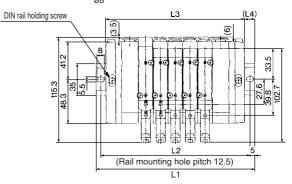


DIN rail holding screw	L3 (L4)
(Lead wire length)	(4) (9) (9) (9) (10) (10) (10) (10) (10) (10) (10) (10

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

SS5X5-45- Stations B-C4

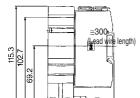


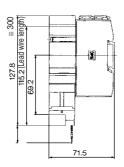


									(mm)
Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	135.5	148	160.5	185.5	198	210.5	223	248	260.5
L2	125	137.5	150	175	187.5	200	212.5	237.5	250
L3	102	118	134	150	166	182	198	214	230
L4	16.5	15	13	17.5	16	14	12.5	17	15
Stations n	11 etations	12	12	1/1	15	16	17	1Ω	10

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

L plug connector

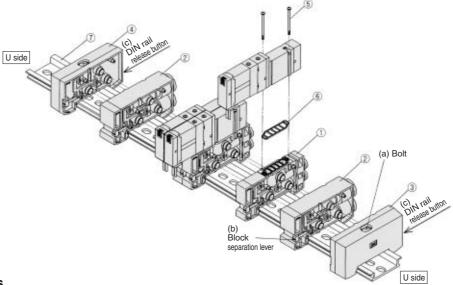




M plug connector

Exploded View/DIN Rail Manifold

Type 45



Replacement Parts

	D	Pari	no.	Note			
No.	Description	SX3000	SX5000				
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"		
				(Gasket ⑥ is included.)			
2	SUP/EXH block assembly	(Metric size) SX3000-51-1A (Inch size) SX3000-51-15A		P, R port SX3000 (Metric size) With One-touch fitting for ø8 (Inch size) With One-touch fittings fo P, R port SX5000 (Metric size) With One-touch fittings for ø10 (Inch size) With One-touch fittings for			
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

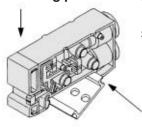
Station expansion is possible at any position.

- (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.
- (4) Press the block assembly until a click sound is produced, and tighten the bolts (a) to fix them to the DIN rail.

 \(\Delta\) Caution (Tightening torque: 1.4 N·m)
 - (While lightly holding the blocks after fixing an end block on one side, tighten the other end block for better sealing.)

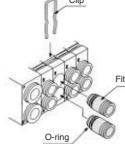
Fig. (1) Block mounting procedure



- 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
	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					
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.

