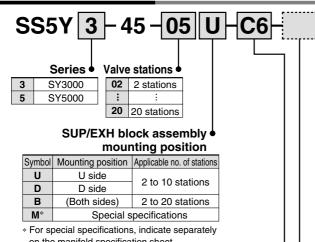


## Series **SY3000/5000 Base Mounted Monifold Stacking Type/DIN Rail Mounted Individual Wiring**

#### **How to Order Manifold**



on the manifold specification sheet.

#### A, B port size One-touch fitting (Metric size) One-touch fitting (Inch size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SY3000
М	Mixed	
C4	One-touch fitting for ø4	
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for ø8	313000
М	Mixed	

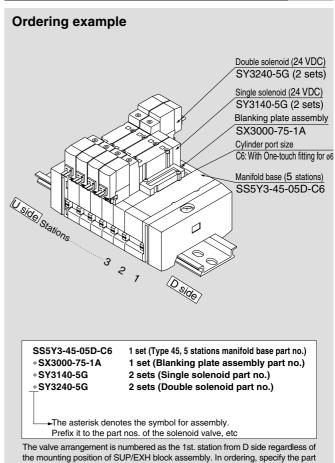
Symbol	Port size	Applicable series
N3	One-touch fitting for ø 5/32"	
N7	One-touch fitting for ø 1/4"	SY3000
М	Mixed	
N3	One-touch fitting for ø 5/32"	
N7	One-touch fitting for ø 1/4"	SY5000
N9	One-touch fitting for ø 5/16"	313000
M	Mixed	

\* 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)

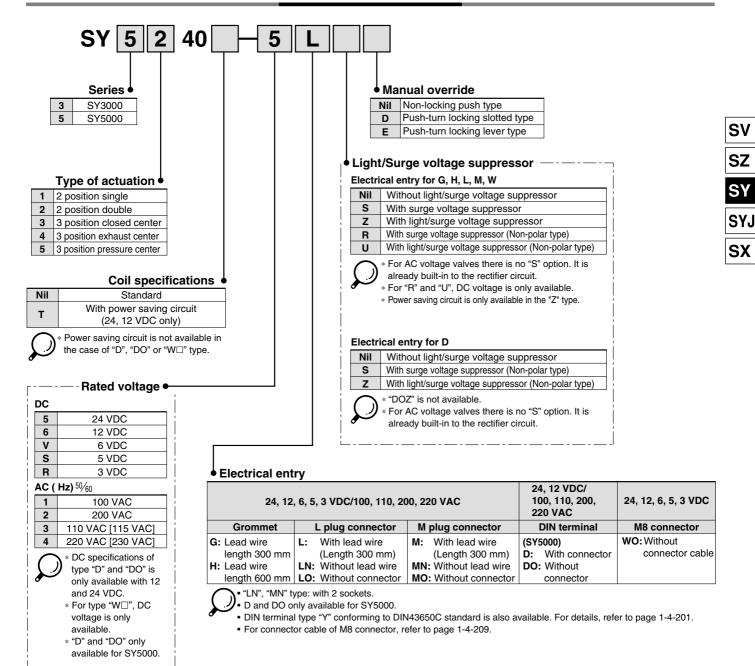
For external pilot specifications and built-in silencer, refer to catalog on page 1-4-194.

## **How to Order Valve Manifold Assembly**



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**





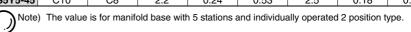
## **Manifold Specifications**

Model		SS5Y3-45	SS5Y5-45	
Applicab	le valve	SY3□40	SY5□40	
Manifold type		Stacking type/D	IN rail mounted	
P (SUP)/R (EXH	)	Common SUP,	Common EXH	
Valve stations	lve stations 2 to 20 stations Note 1)			
A, B port	Location	Base		
Porting specifications	Direction	Si	de	
	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 weight W (g), n: Stations		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 1) For more than 11 stations, supply pressure to P port on both sides and exhaust from R port on both sides.

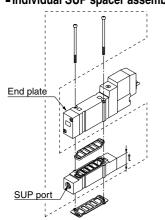
## **Flow Characteristics**

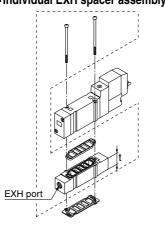
	Port	size			Flow char	aracteristics			
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			4/2 →	5/3 (A/B →	EA/EB)	
	(P, EA, EB)	(A, B)	C (dm3/(s-bar))	b	Cv	C (dm3/(s·bar))	b	Cv	
SS5Y3-45	C8	C6	0.88	0.21	0.22	0.95	0.18	0.22	
SS5Y5-45	C10	C8	2.2	0.24	0.53	2.5	0.18	0.58	



## **Manifold Option**

## ■Individual SUP spacer assembly ■Individual EXH spacer assembly





	Assembly part no.		
SY3000	SY3000-38-2A	M5 x 0.8	11
SY5000	SY5000-38-16*A	1/8	15

Blanking plate assembly



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

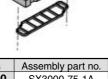
#### Series | Assembly part no. | SY3000 SY3000-39-2A M5 x 0.8 11 SY5000 SY5000-39-16\*A



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

#### \* Thread type

Nil	Rc
F	G
N	NPT
Т	NPTF



Series	Assembly part no.
SY3000	SX3000-75-1A
SY5000	SX5000-76-5A

## Caution

Mounting screw tightening torques

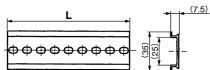
M2: 0.16 N·m M3: 0.8 N·m M4: 1.4 N·m

#### ■ Dimensions/DIN rail

VZ1000-11-1-[

#### 

\* Fill in  $\square$  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					

\* Refer to L1 dimension on pages starting with page 1-4-126 for lengths that correspond to the number of manifold stations.

#### ■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.
SY3000	SX3000-77-1A
SY5000	SX5000-77-1A

#### ■SUP 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.)



Series	Part no.
SY3000	SX3000-77-1A
SY5000	SX5000-77-1A

SV

SZ

SYJ

SX

#### 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

Label for SUP block disk Label for EXH block disk Label for SUP/EXH block disk





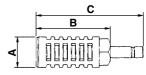




When a block disk is concurrently ordered by specifying on the manifold specification sheet, etc., a label will be stuck on the position where block disk is mounted.

#### Silencer with One-touch fitting

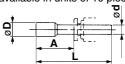
The silencer plugs directly into the One-touch fittings of the manifold.



Series	Model	Effective area	Α	В	С
For SY3000 (Ø8)	AN203-KM8	14 mm <sup>2</sup>	ø16	26	51
Ear CVE000 (~10)	AN200-KM10	26 mm <sup>2</sup>	ø22	53.8	80.8
For SY5000 (Ø10)	AN300-KM10	30 mm <sup>2</sup>	ø25	70	97

### L Plug (white)

These are inserted in unused cylinder ports and SUP, EXH ports. Purchasing order is available in units of 10 pieces.



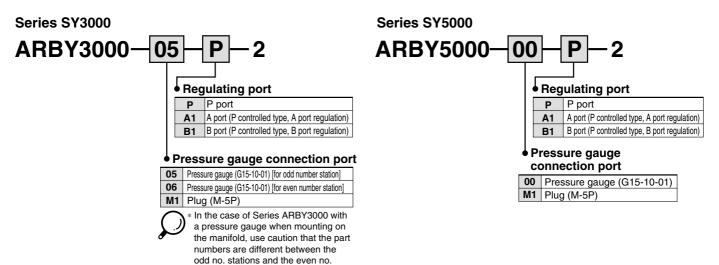
#### Dimensions

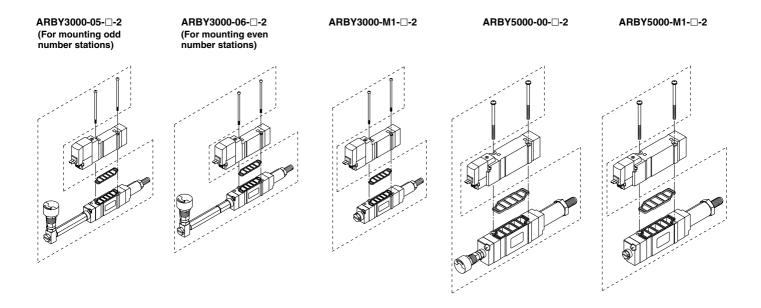
Dillicitatoria				
Applicable fittings size ød	Model	Α	L	D
4	KQ2P-04	16	32	6
6	KQ2P-06	18	35	8
8	KQ2P-08	20.5	39	10
10	KQ2P-10	22	43	12
1/8"	KQ2P-01	16	31.5	5
5/32"	KQ2P-03	16	32	6
1/4"	KQ2P-07	18	35	8.5
5/16"	KQ2P-09	20.5	39	10



## **Manifold Option**

#### ■ How to Order Interface Regulator (SY3000/5000 only)





#### **Accessory**

Series	Round head combination screw	Gasket
ARBY3000	SY3000-23-10 (M2336)	SX3000-57-4
ARBY5000	M3 x 48.5, Matt nickel plated	SX5000-57-6



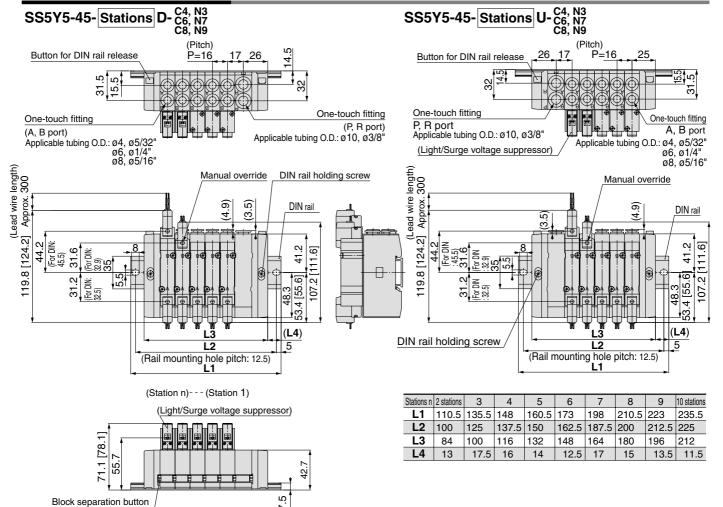
Mounting screw tightening torques

M2: 0.17 N·m M3: 0.8 N·m

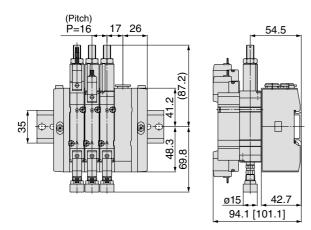
# Base Mounted Type 45

## **Dimensions: Series SY5000**





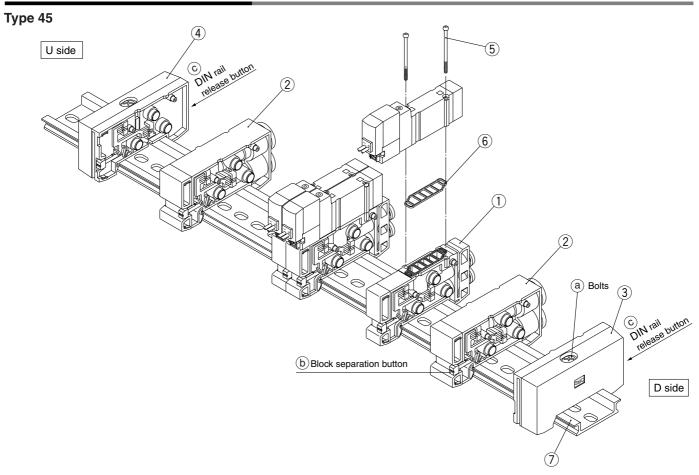
#### With interface regulator (with gauge)



(Push type)



## **DIN Rail Manifold Exploded View**



## **Replacement Parts**

No.	Description	Part no.		Note	
		SY3000	SY5000	Note	
1	Manifold block assembly	SX3000-50-1A-□□	SX5000-50-1A-□□		
2	SUP/EXH block assembly	(Metric size) SX3000-51-1A (Inch size) SX3000-51-15A	(Metric size) SX3000-51-1A (Inch size) SX5000-51-15A	P, R port SY3000 (Metric size) With One-touch fitting for ø8 (Inch size) With One-touch fitting for ø5/16" P, R port SY5000 (Metric size) With One-touch fitting for ø10 (Inch size) With One-touch fitting for ø3∕8"	
3	End block assembly R	SX3000-52-1A	SX5000-52-1A	For D side	
4	End block assembly R	SX3000-53-1A	SX5000-53-1A	For U side	
(5)	Round head combination screw	SY3000-23-4	M3 x 26 (Matt nickel plated)		
6	Gasket	SX3000-57-4	SX5000-57-6		
7	DIN rail	VZ1000-11-1-□		Refer to page 1-4-123.	

## **DIN Rail Manifold Exploded View**

#### How to Increase Manifold Base Station expansion is possible at any position.

- Loosen bolt (a) fixing the manifold base until it begins to turn idly. (While pressing DIN rail releasing buttons (c), at two locations, separate the manifold base from the DIN rail.)
- Press manifold block assembly dividing button (b), that are at the location where manifold bases are to be added, until button (b) locks, and then separate the block assemblies.
- Mount additional manifold block assembly on the DIN rail as shown in the Fig. (1).
- Press the block assemblies until a click sound is produced, and tighten the bolts (a) to fix them to the DIN rail.

**△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 for better sealing.)

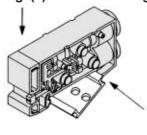
, agricii are earer eria ereen

#### **⚠** Caution

Note 1) When there are 10 or fewer manifold block assemblies, and more are added to make a total of 11 or more, a supply/exhaust block assembly must also be added.

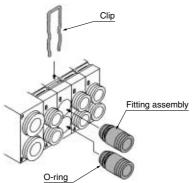
Note 2) When disassembly and assembly are performed, air leakage may result if connections between blocks and tightening of the end block's holding screw, is inadequate. Before supplying air, confirm that there are no gaps, etc. between blocks, and that manifold blocks are securely fastened to the DIN rail. Then supply air and confirm that there is no air leakage before operating.

#### Fig. (1) Block mounting procedure



Hook the DIN rail here and press down in the direction of the arrow until a click sound is heard.

## **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, etc. For mounting a new fitting assembly, insert it and then insert a clip until it will not come out of the manifold block.

## SV

SZ



SYJ

SX

## Fitting Assembly Part No.

#### Metric size

	One-touch fitting for ø4	VVQ1000-50A-C4
SY3000	One-touch fitting for ø6	VVQ1000-50A-C6
SY5000	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

CV2000	One-touch fitting for ø5/32"	VVQ1000-50A-N3		
SY3000	One-touch fitting for ø 1/4"	VVQ1000-50A-N7		
SY5000	One-touch fitting for ø5/32"	VVQ1000-51A-N3		
	One-touch fitting for ø 1/4"	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.