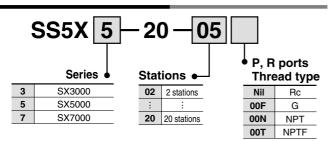


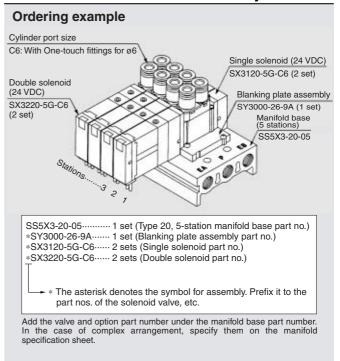
# Series SX3000/5000/7000 Body Ported Manifold Bar Stock Type Individual Wiring

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

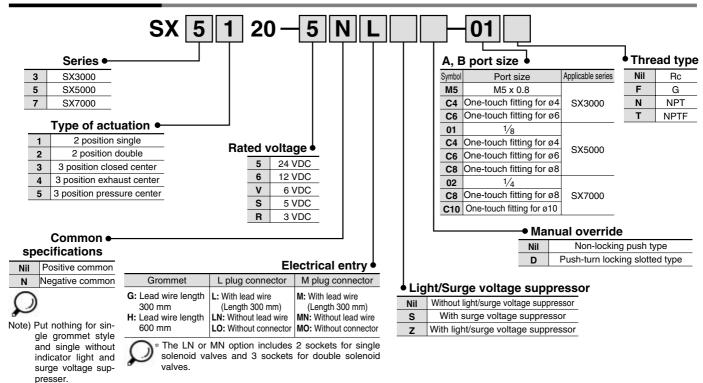




#### **How to Order Valve Manifold Assembly**



#### **How to Order Valves**



## **Manifold Specifications**

Mo	del	SS5X3-20	SS5X3-20 SS5X5-20		
Applicat	ole valve	SX3□20	SX5□20	SX7□20	
Manifold type	е		Single base/B mount		
P (SUP)/R (I	EXH)	C	ommon SUP/Common EX	KH	
Valve station	ns <sup>Note)</sup>		2 to 20 stations		
A, B port loc	ation	Valve			
	P, EA, EB port	Rc 1/8	Rc 1/ <sub>4</sub>	Rc 1/ <sub>4</sub>	
Port size	M5 x 0.8 A, B port 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 n: Stations	weight W (g)	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							
	Port size			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.

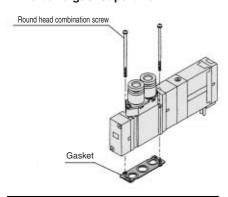
# **Manifold Option**

#### ■ Blanking plate assembly



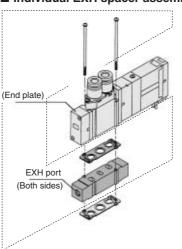
Series	Assembly part no.
SX3000	SY3000-26-9A
SX5000	SY5000-26-20A
SX7000	SY7000-26-22A

#### ■ 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

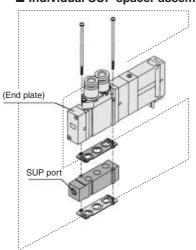
#### ■ Plug

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.)

* Tilleau type				
Nil	Rc			
F	G			
N	NPT			
Т	NPTF			

SV

SZ

SY

SYJ

SX

# **⚠** 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.

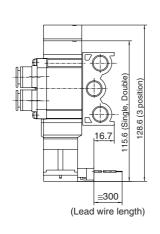




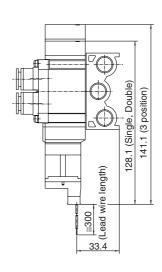
# SX7000: SS5X7-20- Stations

#### Grommet (G) 2n2-One-touch fittings 2n1-Rc 1/4 (A, B port) (A, B port) 6-Rc 1/4 Applicable tubing O.D.: ø8 4-ø4.5 10 (P, EA, EB port) ø10 (Mounting hole) 16.5 22.4 20.5 20 62.5 19 8 2 8.9/ 128.6 99.5 30 G: ≅ 300 H: ≅ 600 (Pitch) Manual override Manual override **Individual SUP** P = 19 23.5 (Press and turn for the (Press and turn for the (Lead wire length) spacer mounting size locking type.) locking type.) (SUP port is mounted on the A: Orange **Individual EXH** end plate side of single B: Green spacer mounting size $\widehat{\Omega}$ solenoid.) (Station n) ----- (Station 1) Light/Surge voltage suppressor (5.5)EXH port SUP port % 67 Rc 1/4 S Both sides) 9.5 18.5 2 75.3 9.5 58.2 9 67. 56

## L plug connector (L)



# M plug connector (M)



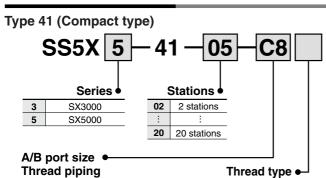
n: Stations (n1 + n2)

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	66	85	104	123	142	161	180	199	218	237	256	275	294	313	332	351	370	389	408
L2	46	65	84	103	122	141	160	179	198	217	236	255	274	293	312	331	350	369	388



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

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



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

#### Rc F G Ν NPT NPTF

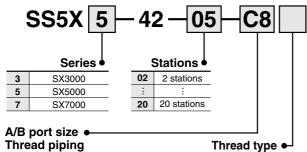
#### One-touch fitting (Metric size)

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	3,5000

#### 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"	583000
N7	One-touch fitting for ø1/4"	SX5000
N9	One-touch fitting for ø5/16"	3/3000

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

Nil	Rc
F	G
N	NPT
Т	NPTF

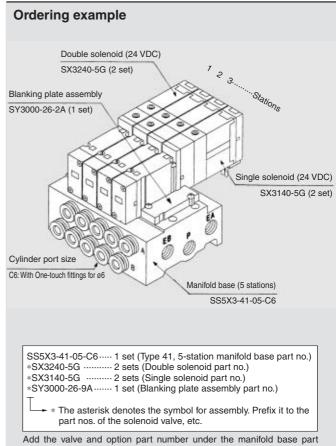
# One-touch fitting (Metric size)

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		
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**

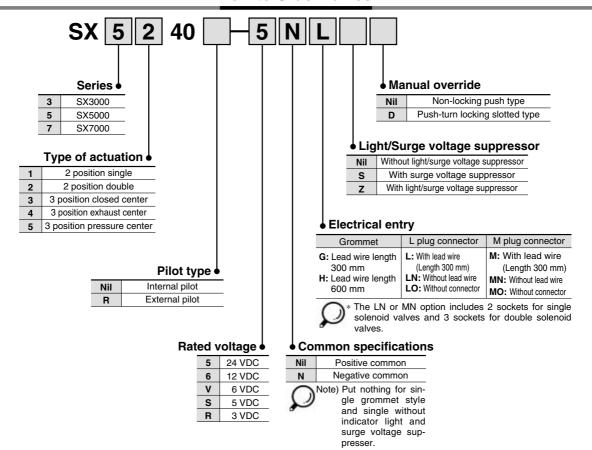


number. In the case of complex arrangement, specify them on the manifold specification sheet.



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

# **How to Order Valves**



SV SZ

SY

SYJ

SX

# Type 41 Type 42



#### **Manifold Specifications**

Model		el	SS5X3-41	SS5X3-42	SS5X5-41	SS5X5-42	SS5X7-42
Applicable valve		valve	SX3□40	SX3□40(R)	SX5□40	SX5□40(R)	SX7□40(R)
Manifold type		/pe		Si	ngle base/B mou	ınt	
P(SUP)/R(EXH)		EXH)		Comm	on SUP/Commo	n EXH	
Valve stations Note)		ons Note)			2 to 20 stations		
A, B Porti	A, B Porting Location Direction		Base				
specificat				Side			
	P, EA, EB port		Rc 1	Rc 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.

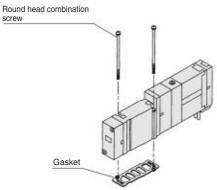
# **Manifold Option**

#### ■ Blanking plate assembly



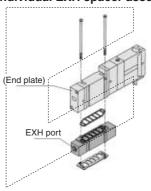
Series	Assembly part no.
SX3000	SY3000-26-9A
SX5000	SY5000-26-20A
SX7000	SY7000-26-22A

# ■ 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



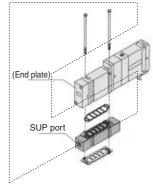
Series	Assembly part no.	Port size
SX3000	SX3000-39-2A	M5 x 0.8
SX5000	SX5000-39-16⊠A	1/8
SX7000	SX7000-39-16®A	1/4

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.)

#### ■ Plua

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

# ■ Individual SUP spacer assembly



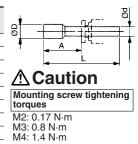
Series	Assembly part no.	Port size	
SX3000	SX3000-38-2A	M5 x 0.8	
SX5000	SX5000-38-16⊠A	1/8	
SX7000	SX7000-38-16⊠A	1/4	

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	

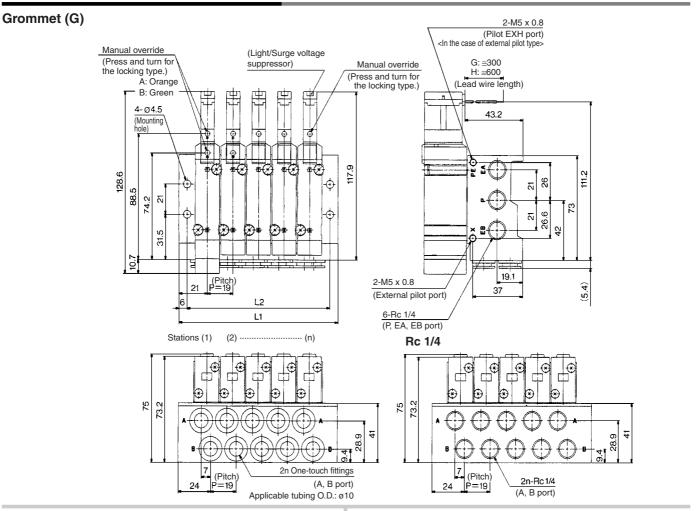


# **Marning**

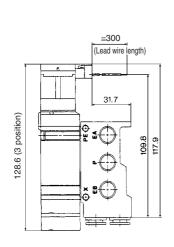
When mounting a valve or spacer on the manifold base or sub-plate, etc., those mounting directions are determined. If mounted in the wrong direction, the equipment to be connected may cause malfunction. Refer to external dimensions in pages 1-6-57 to 1-6-63, and then mount it.



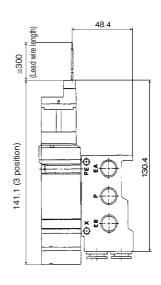
# SX7000: SS5X7-42- Stations -02/C10



# L plug connector (L)



# M plug connector (M)



Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	61	80	99	118	137	156	175	194	213	232	251	270	289	308	327	346	365	384	403
L2	49	68	87	106	125	144	163	182	201	220	239	258	277	296	315	334	353	372	391

SV

SZ

SY

SYJ

SX