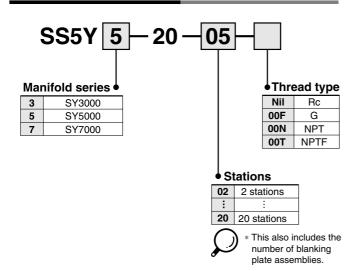
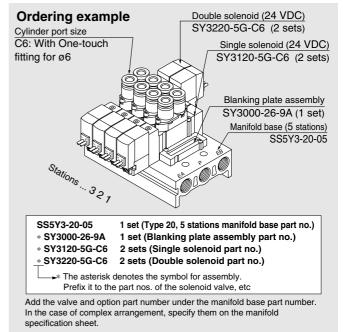


# Series SY3000/5000/7000 Body Ported Manifold Bar Stock Type Individual Wiring

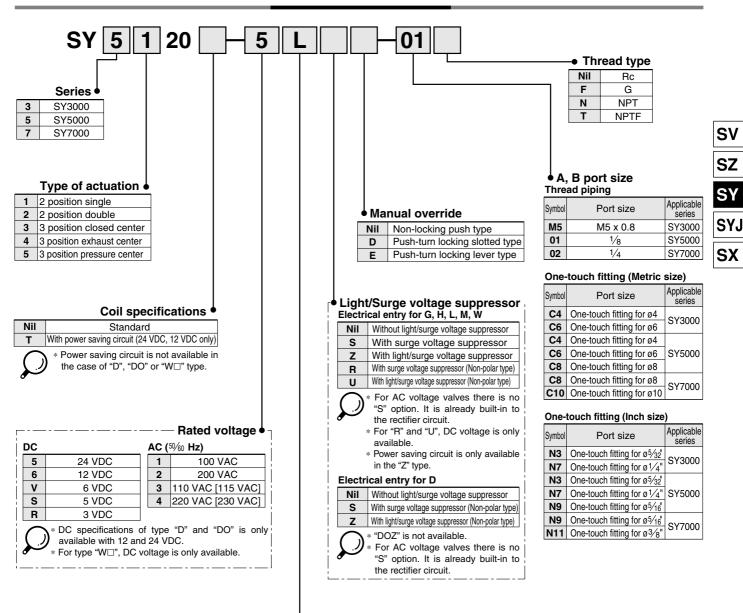
#### **How to Order Manifold**



# **How to Order Valve Manifold Assembly**



# **How to Order Valves**



Electrical entry

	, 12, 6, 5, 3 VDC/ 0, 110, 200, 220 V	24, 12 VDC/ 100, 110, 200, 220 VAC	24, 12, 6, 5, 3 VDC	
Grommet	L plug connector	M plug connector	DIN terminal	M8 connector
G: Lead wire length 300 mm H: Lead wire length 600 mm	L: With lead wire (Length 300 mm) LN: Without lead wire LO: Without connector	M: With lead wire (Length 300 mm) MN: Without lead wire MO: Without connector	D: With connector DO: Without connector	WO: Without connector cable

\* "LN", "MN" type: with 2 sockets.

\* For DIN terminal of SY3000 series, refer to page 1-4-207.

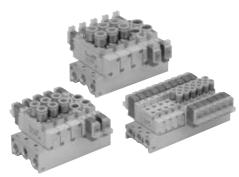
\* DIN terminal type "Y" conforming to DIN4365C standard is also available. For details, refer to catalog on page 1-4-201.

\* For connector cable of M8 connector, refer to page 1-4-209

Note) When placing an order for body ported solenoid valve as a single unit, mounting bolt for manifold and gasket are not attached. Order them separately, if necessary.

(For details, refer to catalog in page 1-4-61.)





# **Manifold Specifications**

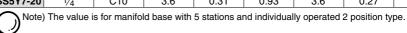
	Мо	del	SS5Y3-20	SS5Y3-20 SS5Y5-20				
	Applicat	ole valve	SY3□20	SY5□20	SY7□20			
	Manifold type	е		Single base/B mount				
	P (SUP)/R (I	EXH)	Co	mmon SUP, Common E	XH			
	Valve stations			2 to 20 stations Note 1)				
1	A, B port location		Valve					
		P, EA, EB port	1/8	1/4	1/4			
	Port size	A, B port	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 = 13n + 35	W = 36n + 64	W = 43n + 64			

Note 1) For more than 10 stations (more than 5 stations in the case of SS5Y7), supply pressure to P port on both sides and exhaust from EA/EB port on both sides.

Note 2) Refer to "Manifold Option" on page 1-4-61.

# **Flow Characteristics**

	Port	size	Flow characteristics					
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$			$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$		
	(P, EA, EB) (A, B)		C (dm3/(s-bar))	b	Cv	C (dm3/(s-bar))	b	Cv
SS5Y3-20	1/8	C6	0.72	0.29	0.18	0.80	0.36	0.21
SS5Y5-20	1/4	C8	1.9	0.28	0.48	2.2	0.20	0.53
SS5Y7-20	1/4	C10	3.6	0.31	0.93	3.6	0.27	0.88



# SY3000/SS5Y3-20-Stations-

Stations n 2 stations

L2

48.5

30.5

3

59

41

69.5

51.5

5

80

62

90.5

72.5

101

83

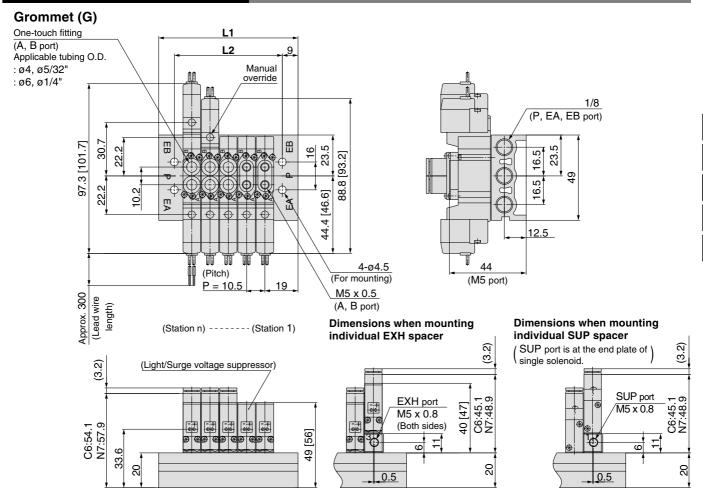


SV

SZ

SYJ

SX



#### L plug connector (L) M plug connector (M) M8 connector (WO) M8 x 1 € 117.1 [121.5] .5 [101.9] 108.6 [113] [93.4] 115.3 106.8 8 92 89 97. 44.5 [46.7] 54.3 [56.5] 46 53.4 Approx. 300 60.1 [67.1] (Lead wire length) 36 53.5 (Lead wire length) 33.6 300 49 [56] Approx. Note) Refer to page 1-4-210 for dimensions of connector types.

10

132.5

114.5

12

153.5

135.5

143

13

164

146

14

174.5

156.5

15

185

167

16

195.5

177.5

206

188

18

216.5

198.5

8

111.5

93.5

122

104

19 20 stations

237.5

219.5

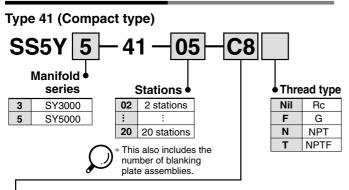
227

209



# Series SY3000/5000/7000 **Base Mounted Manifold Bar Stock Type Individual Wiring**

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



#### A, B port size Thread piping

Symbol	Port size	Applicable series
M5	M5 x 0.8	SY3000
01	1/8	SY5000

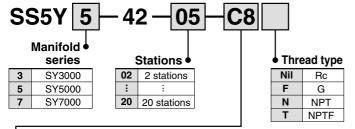
#### One-touch fitting (Metric size)

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

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

Symbol	Port size	Applicable series
N3	One-touch fitting for ø 5/32"	SY3000
N7	One-touch fitting for ø 1/4"	313000
N7	One-touch fitting for ø 1/4"	SY5000
N9	One-touch fitting for ø5/16"	313000

#### Type 42 (External pilot capable type)



#### A, B port size Thread piping

Symbol	Port size	Applicable series
01	1/8	SY3000
02	1/4	SY5000
02	1/4	SV7000

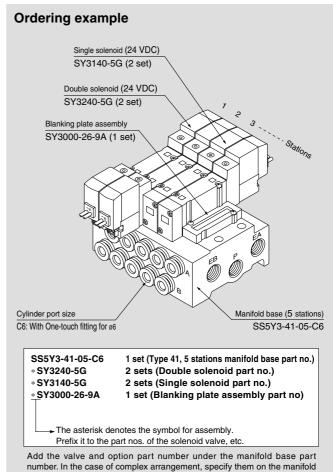
#### One-touch fitting (Metric size)

••	one teach many (means ones)							
Symbol	Port size	Applicable series						
C4	One-touch fitting for ø4	SY3000						
C6	One-touch fitting for ø6	513000						
C6	One-touch fitting for ø6	SY5000						
C8	One-touch fitting for ø8	515000						
C10	One-touch fitting for ø10	SY7000						

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

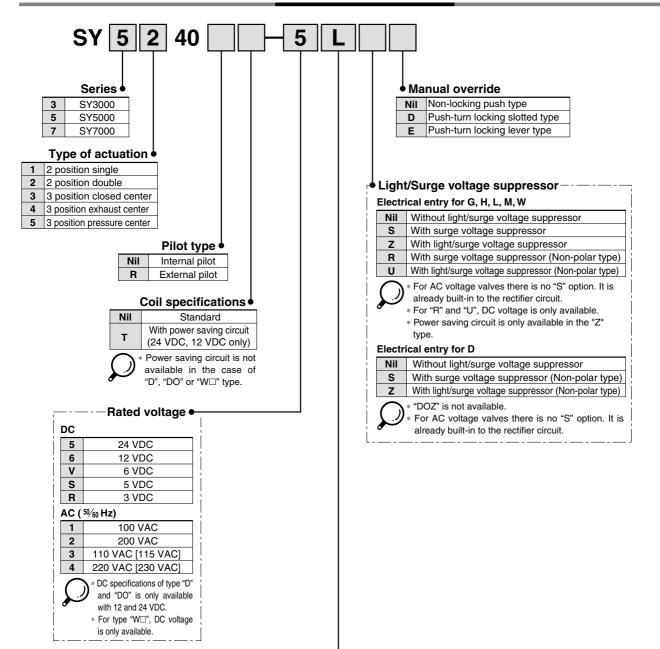
Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	SY3000
N7	One-touch fitting for ø1/4"	313000
N7	One-touch fitting for ø1/4"	SY5000
N9	One-touch fitting for ø5/16"	515000
N9	One-touch fitting for ø5/16"	SY7000

# **How to Order Valve Manifold Assembly**



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

# **How to Order Valves**



Electrical entry

24, 12, 6,	5, 3 VDC/100, 110, 200	24, 12 VDC/ 100, 110, 200, 220 VAC	24, 12, 6, 5, 3 VDC	
Grommet	L plug connector	M plug connector	DIN terminal	M8 connector
<b>G:</b> Lead wire length 300 mm lead	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300	D: With connector DO: Without	WO: Without connector cable
H: Lead wire length 600 mm	LN: Without lead wire LO: Without	mm) MN: Without lead	connector	

\* "LN", "MN" type: with 2 sockets.

SV SZ

**3**Z

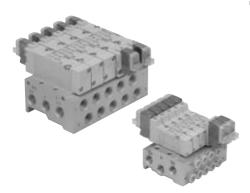
SV I

SYJ

SX

<sup>\*</sup> For connector cable of M8 connector, refer to page 1-4-210.





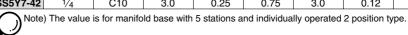
Model			SS5Y3-41	SS5Y3-42	SS5Y5-41	SS5Y5-42	SS5Y7-42	
Applic	able	valve	SY3	SY7□40				
Manifo	ld ty	ре		Si	ngle base/B mou	ınt		
P(SUP	)/R(I	EXH)		Comm	on SUP, Commo	on EXH		
Valve s	statio	ons		2	to 20 stations Not	e 1)		
A, B po	ort	Location	Base					
Porting specif	fications	Direction	Side					
	P, E	A, EB port	1/	, 8	1/.	1/4 1/4		
Port size	Α,	B port	M5 x 0.8, C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	1/8 C4 (One-touch fitting for ø4) C6 (One-touch fitting for ø6)	1/8 C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	1/4 C6 (One-touch fitting for ø6) C8 (One-touch fitting for ø8)	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 1) For more than 10 stations (more than 5 stations in the case of SS5Y7), supply pressure to P port on both sides and exhaust from EA/EB port on both sides.

Refer to "Manifold Option" on page 1-4-114.

# **Flow Characteristics**

	Port size			Flow characteristics				
Model	1, 5, 3	4, 2	1 →	$1 \rightarrow 4/2 \ (P \rightarrow A/B)$		$4/2 \rightarrow 5/3 \text{ (A/B} \rightarrow \text{EA/EB)}$		
	(P, EA, EB)	(A, B)	C (dm3/(s-bar))	b	Cv	C (dm3/(s-bar))	b	Cv
SS5Y3-41	1/8	C6	0.75	0.19	0.18	0.81	0.23	0.20
SS5Y3-42	1/8	C6	0.75	0.20	0.18	0.82	0.20	0.20
SS5Y5-41	1/4	C8	1.8	0.23	0.44	1.9	0.16	0.45
SS5Y5-42	1/4	C8	1.9	0.20	0.46	1.9	0.12	0.43
SS5Y7-42	1/4	C10	3.0	0.25	0.75	3.0	0.12	0.66

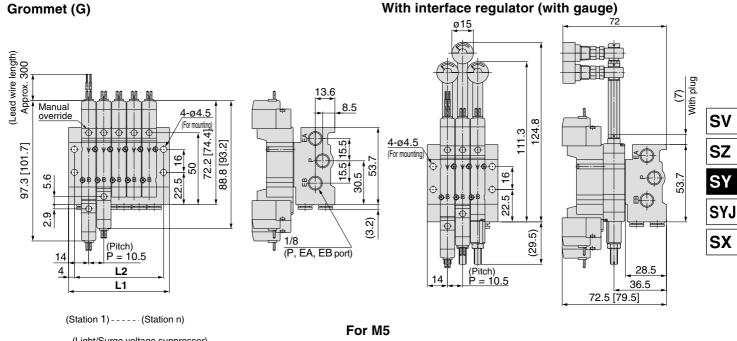


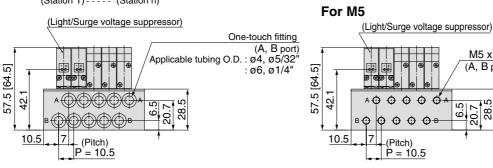
M5 x 0.8 (A, B port)

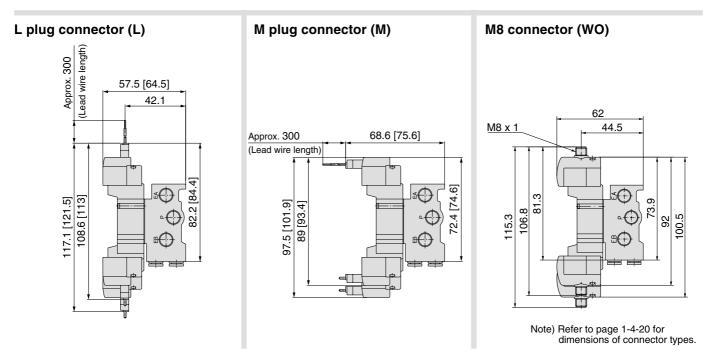
20.7

SY3000: SS5Y3-41- Stations -M5, C4, N3 C6, N7







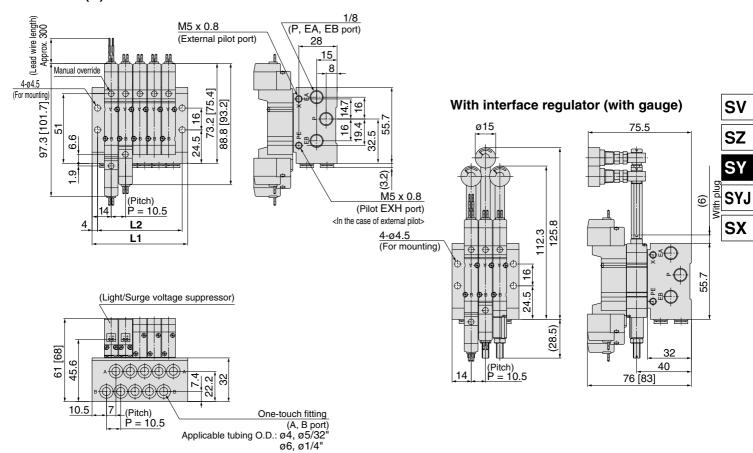


Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	38.5	49	59.5	70	80.5	91	101.5	112	122.5	133	143.5	154	164.5	175	185.5	196	206.5	217	227.5
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5

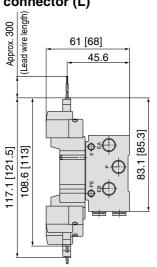
SY3000: SS5Y3-42- Stations - C4, N3 C6, N7



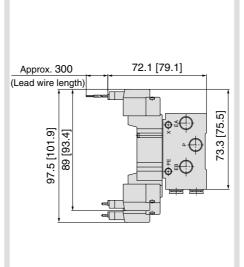
#### **Grommet (G)**



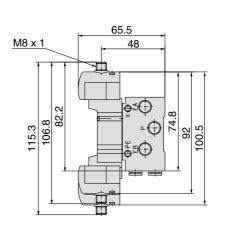
# L plug connector (L)



# M plug connector (M)



# M8 connector (WO)



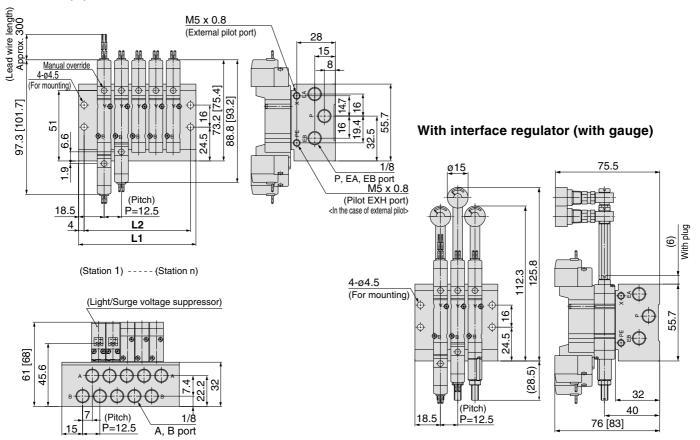
Note) Refer to page 1-4-210 for dimensions of connector types.

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	38.5	49	59.5	70	80.5	91	101.5	112	122.5	133	143.5	154	164.5	175	185.5	196	206.5	217	227.5
L2	30.5	41	51.5	62	72.5	83	93.5	104	114.5	125	135.5	146	156.5	167	177.5	188	198.5	209	219.5

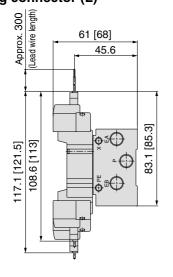
# SY3000: SS5Y3-42- Stations -01



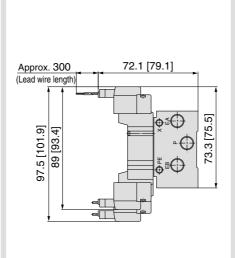
# Grommet (G)



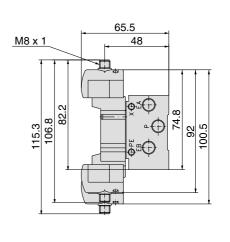
# L plug connector (L)



# M plug connector (M)



### M8 connector (WO)



Note) Refer to page 1-4-210 for dimensions of connector types.

Stations n	2 stations	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 stations
L1	47.5	60	72.5	85	97.5	110	122.5	135	147.5	160	172.5	185	197.5	210	222.5	235	247.5	260	272.5
L2	39.5	52	64.5	77	89.5	102	114.5	127	139.5	152	164.5	177	189.5	202	214.5	227	239.5	252	264.5