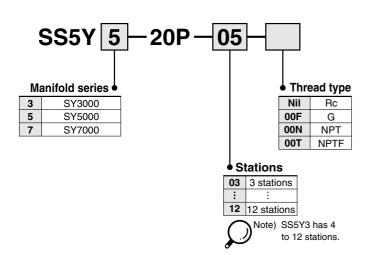
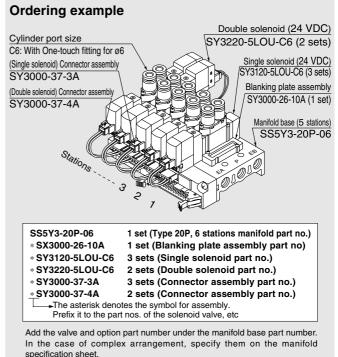


Series SY3000/5000/7000 Body Ported Manifold Bar Stock Type Flat Ribbon Cable

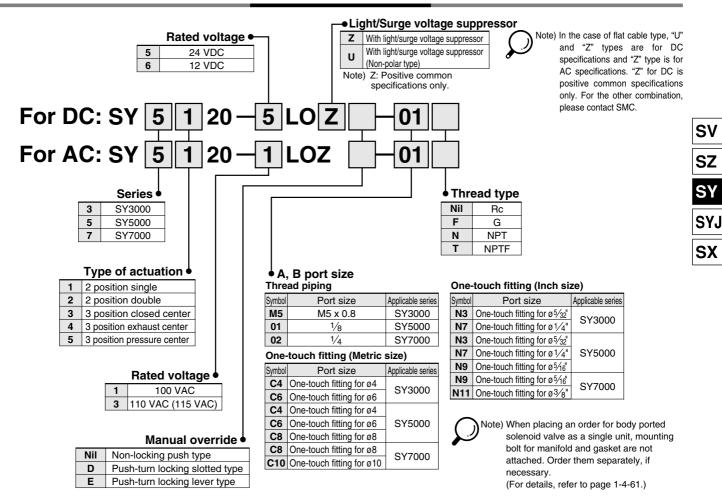
How to Order Manifold



How to Order Valve Manifold Assembly



How to Order Valves



SX

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

Clean appearance

In the case of a flat ribbon cable type, 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		SS5Y3-20P	SS5Y3-20P SS5Y5-20P				
Applicable valve		SY3□20	SY5□20	SY7□20			
Manifold typ	е	Single base/B mount					
P (SUP)/R (I	EXH)	Common SUP, Common EXH					
Valve station	าร	4 to 12 stations ⁽¹⁾ 3 to 12 stations Note 1)					
A, B port loc	ation	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)	1/8 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		W = 19n + 45	W = 43n + 77	W = 51n + 81			
Applicable flat ribbon cable connector		Flat ribbon cable connector, Socket: 26 pins MIL type with strain relief, Conforming to MIL-C-83503					
Internal wiring		In common between +COM and -COM (Z type: +COM only).					
Rated voltage		12, 24 VDC 100, 110 VAC					



- 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) The withstand voltage specification for the wiring unit section is JIS C 0704, Grade 1 or its equivalent.
- Note 3) 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	
SS5Y3-20P	1/8	C6	0.72	0.29	0.18	0.80	0.36	0.21	
SS5Y5-20P	1/4	C8	1.9	0.28	0.48	2.2	0.20	0.53	
SS5Y7-20P	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.

How to Order Connector Assembly

For 12, 24 VDC

For DC	For SY3000	For SY5000/7000		
For single solenoid	SY3000-37-3A	SY5000-37-3A		
Double solenoid, 3 position type	SY3000-37-4A	SY5000-37-4A		
Single with spacer assembly	SY5000-37-3A	SY5000-37-5A		
Double, 3 position with spacer assembly	SY3000-37-6A	SY5000-37-6A		

For 100 VAC

For DC	For SY3000	For SY5000/7000
For single solenoid	SY3000-37-32A	SY5000-37-15A
Double solenoid, 3 position type	SY3000-37-33A	SY5000-37-16A
Single with spacer assembly	SY5000-37-15A	SY5000-37-17A
Double, 3 position with spacer assembly	SY3000-37-34A	SY5000-37-18A

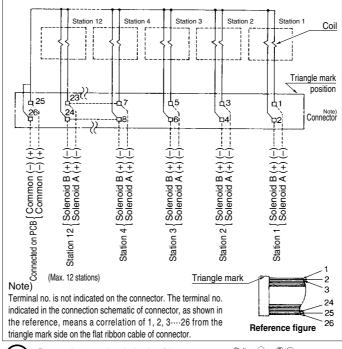
For 100 VAC (115 VAC)

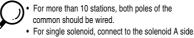
For DC	For SY3000	For SY5000/7000		
For single solenoid	SY3000-37-35A	SY5000-37-19A		
Double solenoid, 3 position type	SY3000-37-36A	SY5000-37-20A		
Single with spacer assembly	SY5000-37-19A	SY5000-37-21A		
Double, 3 position with spacer assembly	SY3000-37-37A	SY5000-37-22A		

∆ Caution

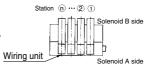
• For non-polar (U) valves, the electrical DC connections can be used with either positive and negative COM. For type (Z), only use with positive COM as the valve does not operate correctly when used with negative COM.

Internal Wiring of Manifold (Non-polar Type)



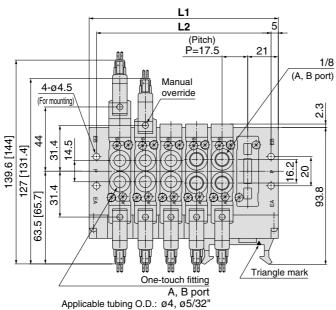


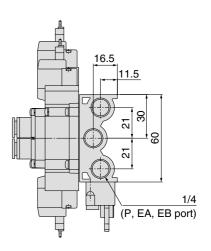
 The maximum number of stations that can be accommodated is 12. For more stations, please contact SMC.



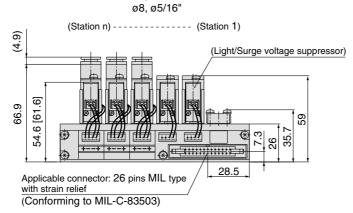
SY5000: SS5Y5-20P-Stations







Applicable tubing O.D.: Ø4, Ø5/32 Ø6, Ø1/4"



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