5 Port Solenoid Valve Body Ported Manifold Stacking Type/Flat Ribbon Cable





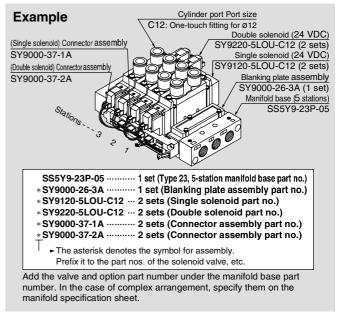
Series SY9000

How to Order Manifold

SS5Y 9 - 23P-05 **♦**Thread type Manifold series Nil Rc **9** SY9000 00F G 00N NPT 00T NPTF Symbol Stations 04 4 stations Option 12 12 stations Svmbol Mounting Nil Direct mounting * This also includes the number of blanking DIN rail mounting (with DIN rail) plate assemblies. DIN rail mounting (without DIN rail) When a longer DIN rail is desired than the specified stations, specify the station * Type 23P manifold of Series number to be required into * mark. SY9000 is concurrently used for the internal and external pilot. CE-compliant CE-compliant

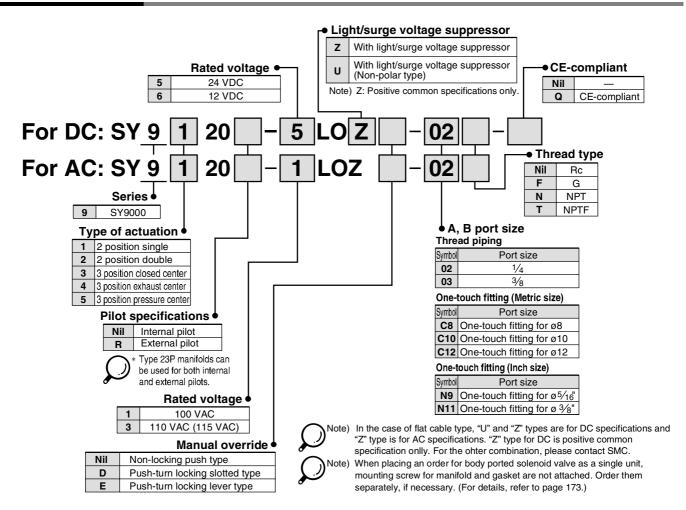
* For DC only

How to Order Manifold Assembly (Example)



Note) Please indicate the connector assembly part no. (page 161) that connects the valve and the manifold.

How to Order Valve



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Manifold Specifications

 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.



Model		SS5Y9-23P(-Q)				
Applicable valve		SY9□20				
Manifold type		Stacking type				
P (SUP)/R (EXH)		Common SUP, Common EXH				
Valve stations		4 to 12 stations Note1)				
A, B port location		Valve				
Port size	P, EA, EB port	3/8				
		1/4				
	A, B port	3/8 C8 (One-touch fitting for ø8)				
		C10 (One-touch fitting for ø10) C12 (One-touch fitting for ø12)				
Manifold base mass W (g) n: Stations		W = 73n + 259				
Applicable flat ribbon cable connector		Flat ribbon cable connector, Socket: 26 pins MIL with strain relief, Conforming to MIL-C-83503				
Internal wiring		In common between +COM and -COM (Z type: +COM only)				
Rated voltage Note4)		12, 24 VDC, 100, 110 VAC				

Note 1) For more than 10 stations, 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 173.

Note 4) CE-compliant: For DC only

Connector Assembly

For 12, 24 VDC

Specifications	For SY9000		
For single solenoid	SY9000-37-1A		
Double solenoid 3 position	SY9000-37-2A		
Single with spacer assembly	SY9000-37-3A		
Double, 3 position with spacer assembly	SY9000-37-4A		

For 100 VAC

Specifications	For SY9000
For single solenoid	SY9000-37-1B
Double solenoid 3 position	SY9000-37-2B
Single with spacer assembly	SY9000-37-3B
Double, 3 position with spacer assembly	SY9000-37-4B

For 110 VAC (115 VAC)

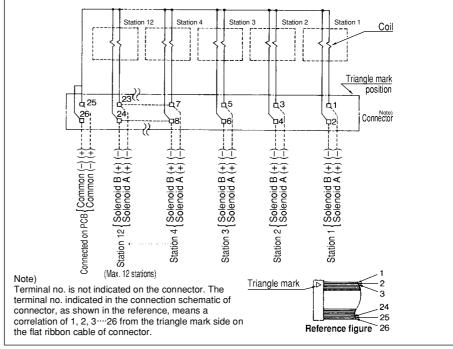
Specifications	For SY9000
For single solenoid	SY9000-37-1C
Double solenoid 3 position	SY9000-37-2C
Single with spacer assembly	SY9000-37-3C
Double, 3 position with spacer assembly	SY9000-37-4C

Flow Characteristics

	Port size		Flow characteristics						
Model	1, 5, 3	4, 2		$4/2 (P \rightarrow A)$	/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	
SS5Y9-23P(-Q)	3/8	C12	6.3	0.20	1.5	8.2	0.28	1.9	

Note) The value is for manifold base with 5 stations and individually operated 2 position type.

Internal Wiring of Manifold (Non-polar type)

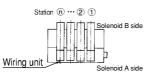




 For non-polar (U) valves, the electrical DC connections can be used with either positive and negative COM. For type (Z), only use with positive COM as the valve does not operate correctly when used with negative COM. For more than 10 stations, both poles of the common should be wired.

• For single solenoid, connect to the solenoid A side.

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

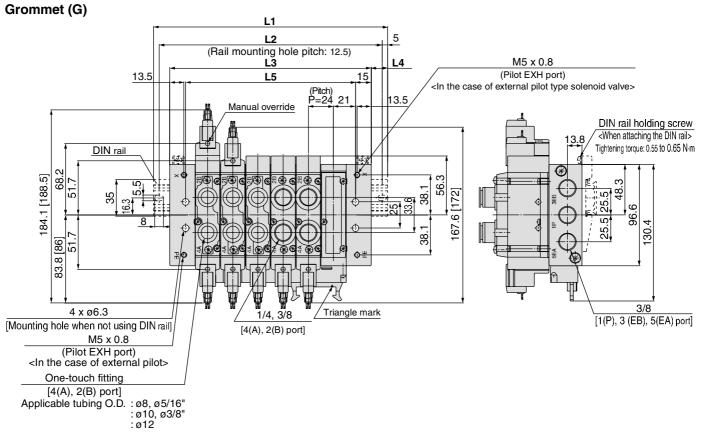


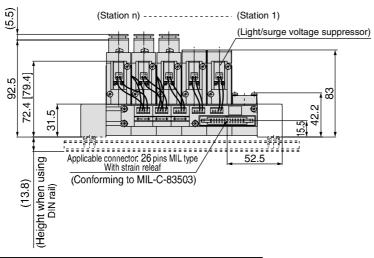
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SY9000: SS5Y9-23P-Stations -(D)







Stations n	4 stations	5	6	7	8	9	10	11	12 stations
L1	173	198	223	248	273	298	323	335.5	360.5
L2	162.5	187.5	212.5	237.5	262.5	287.5	312.5	325	350
L3	144	168	192	216	240	264	288	312	336
L4	14.5	15	15.5	16	16.5	17	17.5	12	12.5
L5	114	138	162	186	210	234	258	282	306

Note) In the case of direct mounting without DIN rail, total width of manifold is L3.