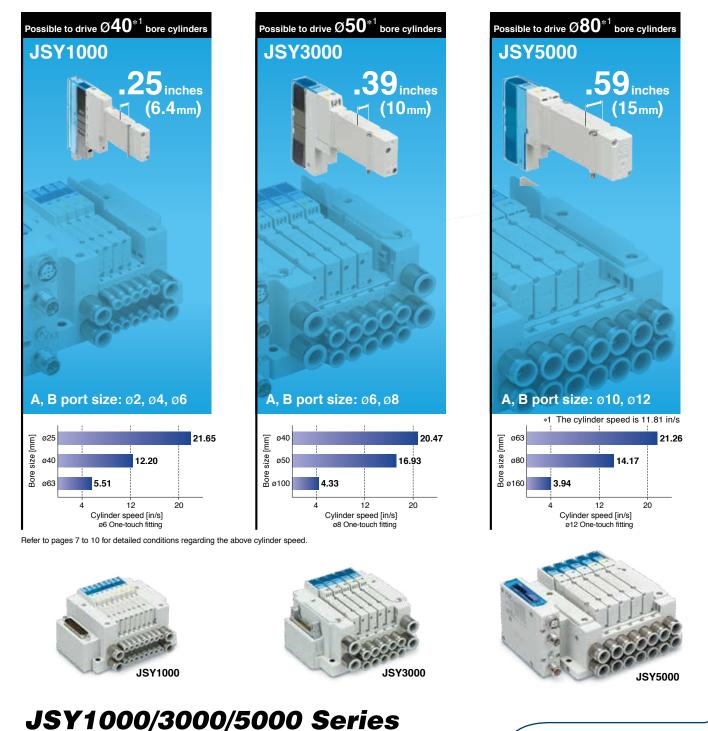
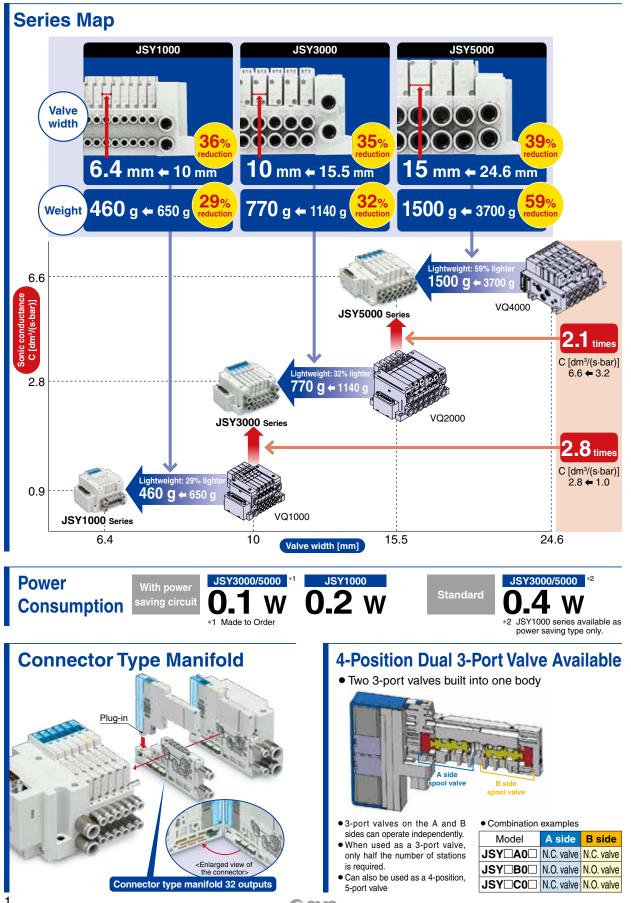
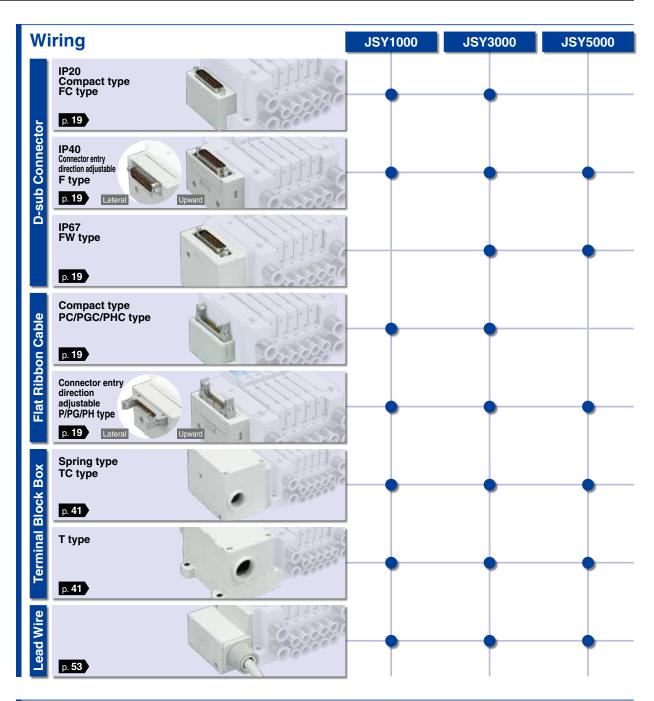


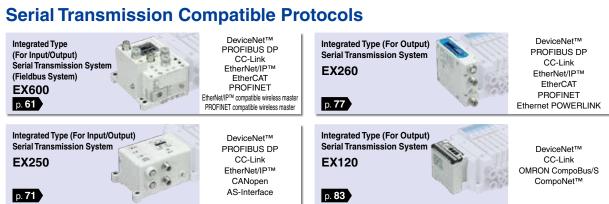
Size reduction possible thanks to a flow increase. This leads to space saving, weight reduction, and a large flow rate.



NC390-A (ES11-110A)





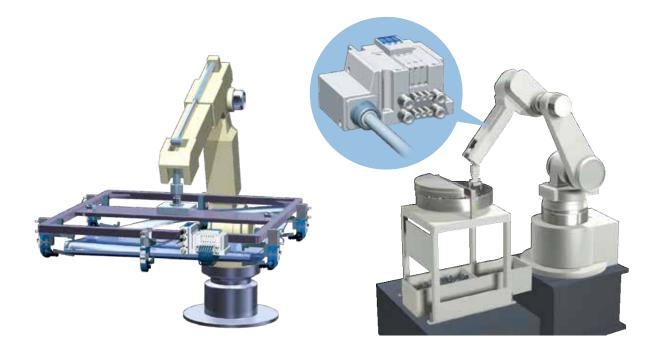


Series Variations

	Sonic cond					Port size							
	C [dm³/(s				Rated	4(A), 2(B) port					1		
	(A/B→E		Type of	actuation	voltage	ø2	ø2 ø4 ø6 ø	ø8	ø10	ø12	1(P), 3/5(E)		
	4(A), 2(B) port											port	
000	ø4	0.87	2-position single (A)4 2(B) (EA)5 1 3(EB) (P)	3-position pressure center (A)4 2(B) ∠→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→		•	•						
JSY1000	ø6	0.91	2-position double (A)4 2(B) (A)4 2(B) (CA)5 13(EB) (P)	4-position dual 3-port valve N.C. valve x 2 pcs. 4(A) 2(B)				•				ø8	
JSY3000	ø8	2.77	3-position closed center (A)4 2(B) (A)4 1 (C) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5(EA) 1(P) 3(EB) N.O. valve x 2 pcs. 4(A) 2(B) 2(B) 5(EA) 1(P) 3(EB)	24 VDC			•	•			ø10	
JSY5000	ø12	6.59	3-position exhaust center (A)4 2(B) (A)4 2(B) (A)4 2(B) (C) (C) (C) (C) (C) (C) (C) (C	N.C. valve, N.O. valve 1 pc. of each 4(A) 2(B) CDD THE CDT THE 5(EA) 1(P) 3(EB)						•	•	ø12	

● Standard ○ Option ▲ Made to Order

Application Examples



	Wir	ring				nifold Opt	tions				Va	lve Optio		
Pitch width [mm]	Positive common	Negative common	Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP/EXH blocking disk	Label for blocking disk	Silencer (One- touch fitting connection type)	Built-in silencer	Vacuum/Low pressure specification	Different pressures	Reverse pressure	Mixed fitting sizes	Enclosure
6.5														
9		•	0	0	0	0	0	0	•		0		•	
11.5	-		p. 111	p. 111	p. 111	p. 112	p. 112	p. 112		External pilot	Individual SUP	External pilot		
16	-													
					*1 F	Refer to t				ns" on pa	iges 15 a	and 16 fc	or details	on If
Individ						Mar	nifold (Option	S					

When the same manifold is used for different pressures, an individual 2-position single valve SUP spacer is used as a supply port for different pressures. Individual SUP spacer assembly



Blanking plate Used when valve additions are expected or for maintenance.

SUP/EXH blocking disk (For connector type manifold, Type 10)

[SUP blocking disk]

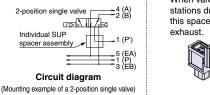
By inserting the SUP blocking disk in the pressure supply passage of the manifold valve, can provide two different high and low pressure in one manifold.

[EXH blocking disk]

By inserting the EXH blocking disk in the exhaust passage of the manifold valve, can separate the exhaust from the valve so it does not affect the other valves. It can also be used for the manifold for the positive pressure and vacuum mixed manifold. (2 pieces are required to block EA/EB both sides of the EXH.)

Silencer (One-touch fitting connection type)

This silencer can be mounted to the 3/5 (E: EXH) port of the manifold in one step.



SMC

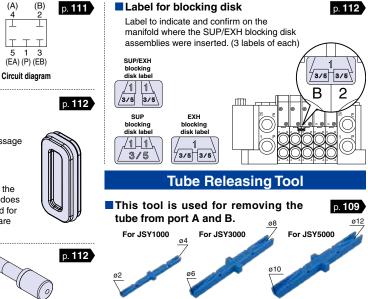
stations due to the circuit configuration, this spacer is used for individual valve

2-position single valve 3/5 (E') spacer assembly 3 (EB)

Circuit diagram

(Mounting example of a 2-position single valve)

EA)



4

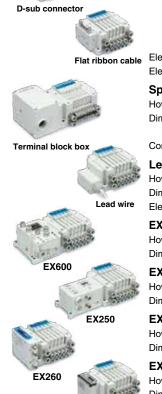


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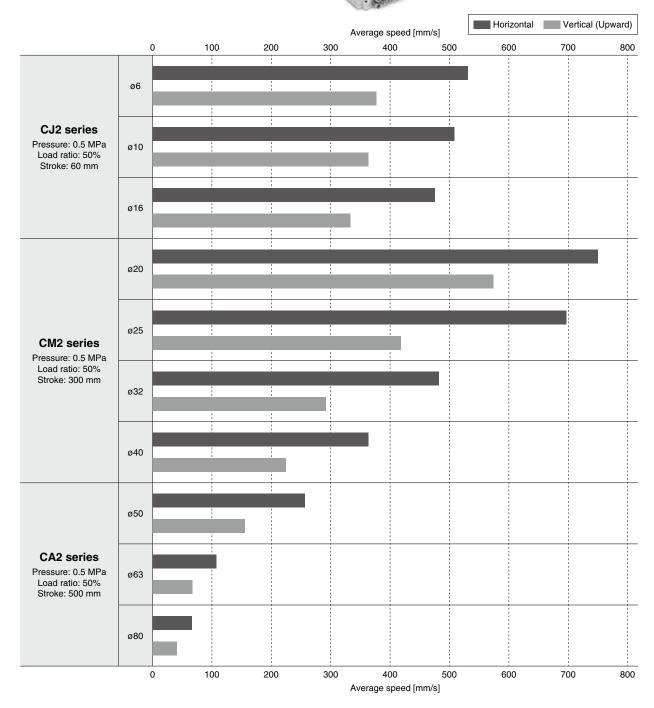
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	Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable): P/PG/PH	
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For JSY1000, A, B port: Ø4



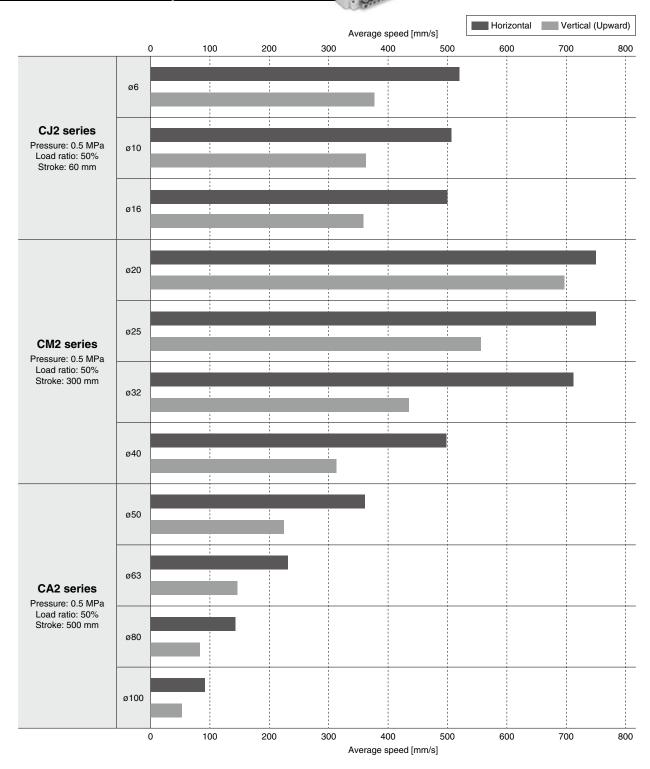
* Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
 Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.

7



For JSY1000, A, B port: Ø6



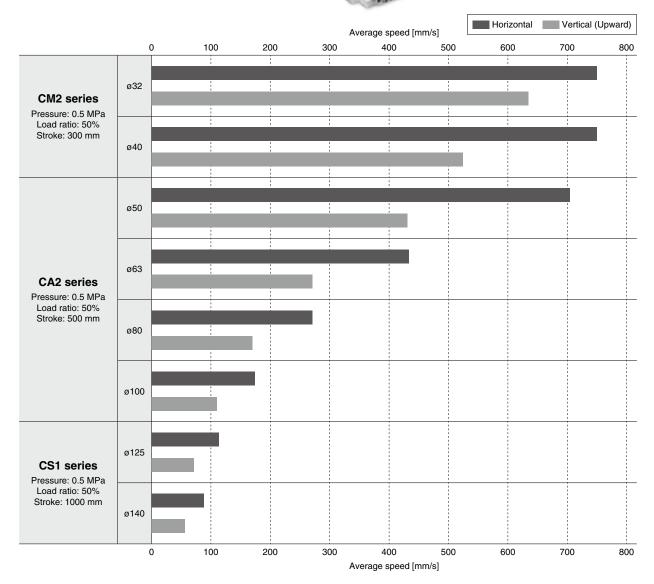
* Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

 $\ast\,$ The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
 Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.

* Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.

For JSY3000, A, B port: Ø8



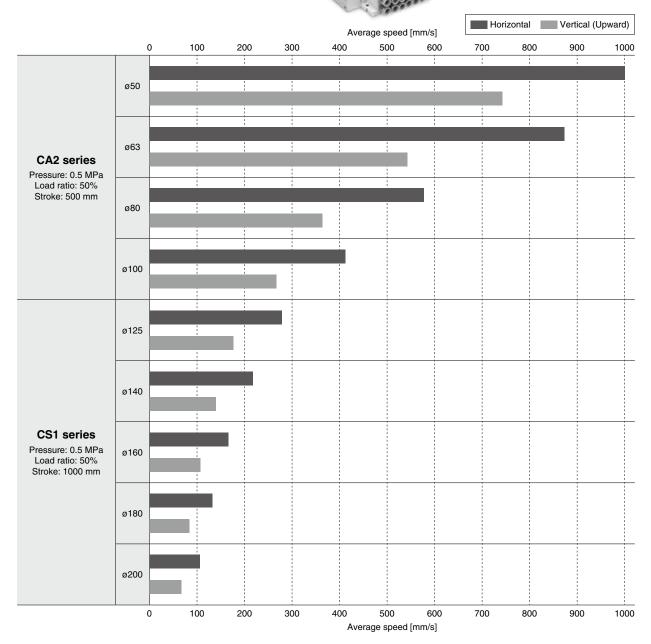
- The average speed of the cylinder is obtained by dividing the stroke by the total stroke time. *
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100% *

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Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.

^{*} Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

For JSY5000, A, B port: Ø12



- $\ast\,$ The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
 Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.
 - **SMC**

^{*} Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type			Rubber seal		
Fluid			Air		
	2-position sing	le	0.15 to 0.7		
Internal pilot operating	2-position dou		0.1 to 0.7		
pressure range	3-position		0.2 to 0.7		
[MPa]	4-position dual 3-port valve		0.15 to 0.7		
External pilot	Operating pres	-	-100 kPa to 0.7		
(Made to Order)	Pilot	2-position single			
operating pressure range	pressure	2-position double	0.25 to 0.7		
[MPa]	range	3-position			
Ambient and fluid tempera	tures [°C]	-	-10 to 50 (No freezing)		
		2-position single/double			
	JSY1000/3000	4-position dual 3-port valve	5		
Max. operating frequency		3-position	3		
[Hz]	JSY5000	2-position single/double	5		
		4-position dual 3-port valve	3		
		3-position	3		
			Non-locking push type		
Manual override			Push-turn locking slotted type		
			Push-turn locking lever type*1		
Pilot exhaust type	Internal pilot		Individual exhaust		
Filot exhaust type	External pilot	Made to Order)			
Lubrication			Not required		
Mounting orientation*2			Unrestricted		
Impact/Vibration resistance	e ^{*2} [m/s ²]		150/30		
Enclosure			JSY1000: IP40 JSY3000/5000: IP67 (Based on IEC60529)		
Coil rated voltage [DC]			24 V		
Allowable voltage fluctuation [V]			$\pm 10\%$ of the rated voltage		
	Standard	JSY3000/5000	0.4		
Power consumption [W]	With newsr	JSY1000	0.2*3 [Inrush 0.5, Holding 0.2]		
rower consumption [W]	With power saving circuit	JSY3000/5000 (Made to Order)	0.1*4 [Inrush 0.4, Holding 0.1]		
Surge voltage suppressor			Diode (Varistor for non-polar type)		
Indicator light			LED		

*1 Not available for the JSY1000 series

*2 Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energized and de-energized states every once for each condition. (Values at the initial period)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period) Refer to page 118 for the fixation of DIN rail mounting type manifold.

*3 JSY1000 series available as power saving type only. Standard type (without power saving circuit) cannot be selected.

*4 For details, refer to page 116.

Response Time

			Response time [ms]*1 With light/surge voltage suppressor			
Series	Model	Type of actuation				
			Z type	U type		
	JSY1100	2-position single	15			
JSY1000	JSY1200	2-position double	7			
3511000	JSY13/4/500 3-position		16	—		
JSY1A/B/C00		4-position dual 3-port valve	19	<u> </u>		
	JSY3100	2-position single	27	18		
JSY3000	JSY3200	2-position double	13	12		
JS13000	JSY33/4/500	3-position	27	24		
	JSY3A/B/C00	4-position dual 3-port valve	23	23		
	JSY5100	2-position single	35	25		
101/5000	JSY5200 2-position double		19	17		
JSY5000	JSY53/4/500	3-position	41	37		
JSY5A/B/C00		4-position dual 3-port valve	37	37		

*1 Based on dynamic performance test, JIS B 8419-2010. (Coil temperature: 20°C, at rated voltage)

Valve Weight

JSY1000 Series

Valve model	Type of actuation		Weight [g]	
	2-position	Single	24	
	2-position	Double	27	
JSY1⊡00		Closed center		
	3-position	Exhaust center	30	
		Pressure center		
	4-position	Dual 3-port valve	27	

JSY5000 Series

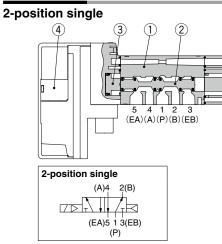
Valve model	Type of actuation		Weight [g]	
	0 position	Single	91	
	2-position Double		100	
JSY5⊡00		Closed center		
JS15_00	3-position	Exhaust center	110	
		Pressure center	7	
	4-position	Dual 3-port valve	96	

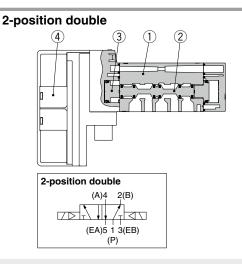
JSY3000 Series

Valve model	Type of actuation		Weight [g]	
	0	Single	54	
	2-position Double		63	
JSY3⊡00		Closed center		
JST3_00	3-position	Exhaust center	67	
		Pressure center		
	4-position	Dual 3-port valve	63	

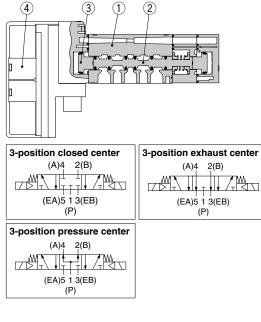
JSY1000/3000/5000 Series Valve Construction

Rubber Seal

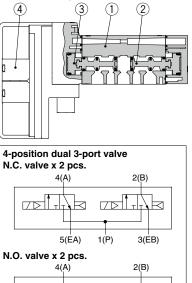


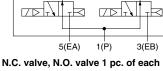


3-position closed center/exhaust center/pressure center

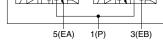


4-position dual 3-port valve









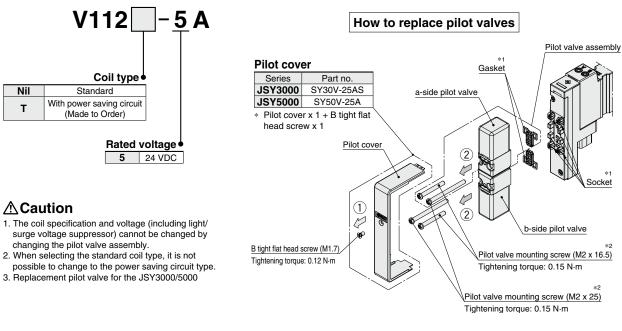
Component Parts

	pononerario	
No.	Description	Material
1	Body	Aluminum die-casted
2	Spool valve	Aluminum/HNBR (4-position solenoid valve: Resin/HNBR
3	Piston	Resin
4	Pilot valve assembly	_
3		

SMC

JSY3000/5000 Series Valve Replacement Parts: Pilot Valve

How to Order Pilot Valves (With a gasket and two mounting screws)*3



- Loosen B tight flat head screw to remove the pilot cover in the direction indicated by the arrow ①.
- Remove the pilot valve mounting screws.
- \bullet Remove the pilot valve in the direction indicated by the arrow 2.
- * Assemble by following the removal procedure in reverse.
- *1 Ensure the gasket is mounted, and take care not to bend the socket.
- *2 Be noted for mounting that there are two types of lengths for the pilot valve mounting screws.
- *3 The pilot valve of the JSY1000 cannot be removed. This is irreplaceable.

JSY1000/3000/5000 Series Type 10 Plug-in Connector Connecting Base

Manifold Specifications

			D-sub connector			Flat ribbon cable						
	Model		F type	FW type*1	FC type*2	P type	PG type	PH type	PC type*2	PGC type*2	PHC type*2	
Manifo	ld type					Plug-in co	nnector conne	ecting base				
SUP/E)	(H port type				C	common SUP	/EXH (Comm	on for 3/5 por	t)			
Valve s	tations			2 to 24	stations		2 to 18 stations	2 to 8 stations	2 to 24 stations	2 to 18 stations	2 to 8 stations	
Annline			D-sub connector conforming to	Dedicated connector	D-sub connector conforming to			Flat ribbon ca g to MIL-C-83				
Арриса	Applicable connector		MIL-C-24308 (Refer to page 37.)		MIL-C-24308 (Refer to page 37.)	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type	
Interna	l wiring			Positive common, Negative common								
	1(D) 0(C(C)	JSY1000		ø8 One-touch fitting								
	1(P), 3/5(E) port	JSY3000		ø10 One-touch fitting								
Port	port	JSY5000		ø12 One-touch fitting								
size	4(A) 0(D)	JSY1000	ø2 One-touch fitting, ø4 One-touch fitting, ø6 One-touch fitting									
	4(A), 2(B) port	JSY3000		ø6 One-touch fitting, ø8 One-touch fitting								
	Poit	JSY5000		ø10 One-touch fitting, ø12 One-touch fitting								
Enclosure (Based on IEC60529)		JSY1000		_	IP20					IP20		
		JSY3000	IP40	IP67			IP40					
		JSY5000		11 07	_							

*1 FW type is not available for JSY1000. Protection class for the JSY1000 is IP20 or IP40.

*2 FC, PC, PGC, PHC types are not available for the JSY5000.

Manifold Weight

											Unit: g	
							2 Wiring					
M	odol	1) Per station	D-sub connector			Flat ribbon cable						
Model		() Fer station	F type	FW type*2	FC type*3	P type	PG type	PH type	PC type*3	PGC type*3	PHC type*3	
101/1000	for ø4	21.3	308	_	233	306	304	298	233	231	225	
JSY1000	for ø6	26.9	319	_	244	317	315	309	244	242	236	
JSY3000	for ø8	42.7	332	330	287	330	328	322	257	255	249	
JSY5000 for ø12		104	509	507	—	507	505	499	-	_	—	

Formula for manifold weight*1

W = 1 **x n** + 2 (n: stations)

JSY3000 series, D-sub connector, F type, 5 stations: (42.7 x 5) + 332 = 545.5 (g)

Manifold Flow Rate Characteristics

	Port	size	Valve flow rate characteristics				
Model	1, 3/5	4, 2	$1 \rightarrow 4/2 \ (P \rightarrow$	A/B)	$4/2 \rightarrow 3/5 (A/B)$	→ E)	
	(P, E)	(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b	
JJ5SY1-10	C8	C4	0.63	0.46	0.87	0.47	
(Side ported)		C6	0.96	0.30	0.91	0.48	
JJ5SY3-10 (Side ported)	C10	C8	2.23	0.30	2.77	0.27	
JJ5SY5-10 (Side ported)	C12	C12	6.40	0.22	6.59	0.22	

* Calculation of effective area S and sonic conductance C: S = $5.0 \times C$

* Values measured in accordance with ISO 6358:1989, JIS B 8390:2000

Type 10 JSY1000/3000/5000 Series



						Caracter	
Terminal	block box	Lead wire		Serial	wiring		
T type	TC type	L type	S6⊡ type (EX600)	S⊟ type (EX250)	S⊟ type (EX260)	S3⊡ type (EX120)	
		Plug-ii	n connector connecting	g base			
		Common	SUP/EXH (Common fo	or 3/5 port)			
2 to 20 stations			2 to 24 stations			2 to 16 stations	
_							
Positive common, Negative common							
 ø8 One-touch fitting							
ø10 One-touch fitting							
			ø12 One-touch fitting				
		ø2 One-touch fitting	, ø4 One-touch fitting,	ø6 One-touch fitting			
		ø6 One-te	ouch fitting, ø8 One-to	uch fitting			
		ø10 One-te	ouch fitting, ø12 One-te	ouch fitting			
IP40							
	IP67		IP67 (I/O unit: (partially IP40)	IP67	IP67 D-sub communication connector: IP40	IP20	

								Unit: g
(2) Wiring								
Terminal	block box	Lead wire			Serial wiring			
T type	TC type	L type (0.6 m)	L type (1.5 m)	L type (3 m)	S6⊡ type (EX600)*4	S⊟ type (EX250)*4	S⊟ type (EX260)	S3⊡ type (EX120)
 680	471	404	514	698	829	520	448	367
 689	480	413	523	707	838	529	457	367
 709	500	433	543	727	858	549	477	391
914	705	638	748	932	1063	754	682	568

*1 Weight: W is the value of the internal pilot, and maximum manifold size with tube fitting type. Valve is not included. To obtain the weight with valves attached, add the valve weights given on page 12 for the appropriate number of stations.

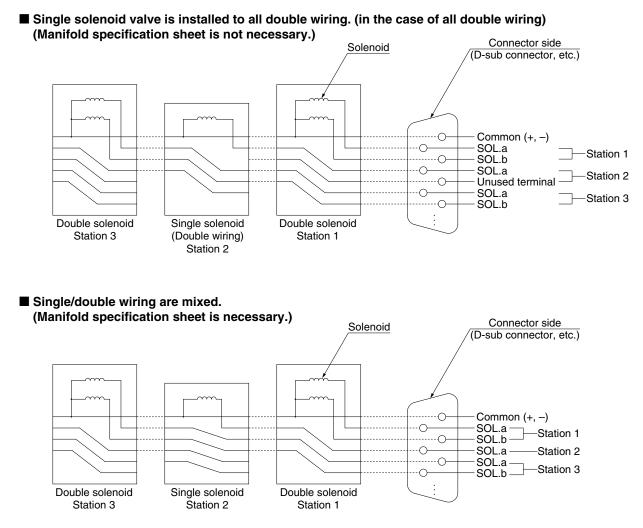
*2 FW type is not available for the JSY1000.

*3 FC, PC, PGC, PHC types are not available for the JSY5000.

*4 Serial unit weight is included, but I/O unit is not included. Add the weight for calculation when I/O unit is added.

Connector Wiring Layout

For both serial and parallel wiring, additional valves are sequentially assigned pins on the connector. This makes it completely unnecessary to disassemble the connector unit.



* These diagrams are for the purpose of explanation, and differ from the actual connector wiring.

Plug-in Connector Connecting Base

D-sub Connector Flat Ribbon Cable



JSY1000/3000/5000 Series

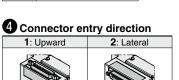
Internal Pilot

How to Order Manifolds

2 Type

10

1 Series							
1	JSY1000						
3	JSY3000						
5	JSY5000						



The connector entry direction for connector types "FW," "FC," and "P C" cannot be rotated. If it is necessary to change, order connector block assembly and SUP/ EXH block assembly (pages 96 and 97) separately.

Side ported

U U side (2 to 10 stations) D D side (2 to 10 stations) B Both sides (2 to 24 stations)

🕖 SUF	P/EXH block assembly
Nil	Internal pilot

	internal pliot
S	Internal pilot, Built-in silencer

- 3/5(E) port is plugged for the built-in silencer type.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

8 A, B port size (Metric/One-touch fitting)

Symbol	A, B port		JSY1000	JSY3000	JSY5000				
C2		ø2	•	—	-				
C4		ø4	•	—	_				
C6	Ħ	ø6	•	•					
C8	Straight	ø8	—	•					
C10	ŝ	ø10	—	—	•				
C12						ø12	—	—	•
CM *1		Straight port, mixed sizes		•	•	Oktow			
P, E port size (One-touch fittings)			ø8	ø10	ø12				

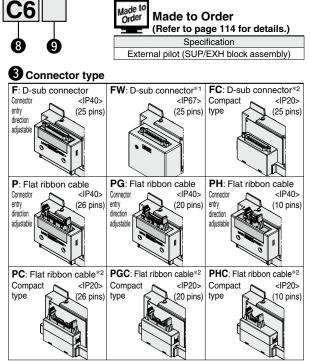
 *1 Indicate the sizes on the manifold specification sheet in the case of "CM."
 * The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

9 Mounting and Option

Symbol		Mounting	* E S					
Nil		Direct mounting						
D	DIN rail mounting							
DIN Rail Option								
Nil	DIN rail	mounting (With DIN rail)	t					
0	DIN rail ı	DIN rail mounting (Without DIN rail)						
3	For 3 stations	Creatify a langer sail than] fi					
:	:	Specify a longer rail than the standard length.						
24	For 24 stations	ine stanuaru lengin.						

Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown on the left.)

Refer to page 118 for the fixation of DIN rail mounting type manifold.



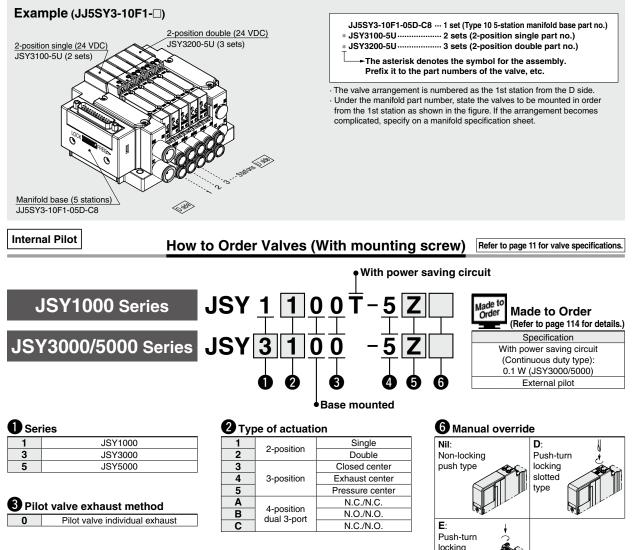
*1 FW is not available for the JSY1000.

*2 Compact type is not available for the JSY5000.

5 Valve stations

Symbol	Stations	Note	Symbol	Stations	Note						
02	2 stations		02	2 stations							
:	÷	Double wiring*1	:	- : -	Double wiring*1						
12	12 stations		12	12 stations							
02	2 stations	Specified layout*2		2 stations	Specified layout*2						
:	:	(Up to 24	:		(Up to 24						
24	24 stations	solenoids available)	24	24 stations	solenoids available)						
PG/P	GC: Fl	at ribbon cable (20 pins)	PH/F	PHC: Fla	at ribbon cable (10 pins						
Symbol	Stations	Note	Symbol	Stations	Note						
02	2 stations		02	2 stations							
:	:	Double wiring*1	:	:	Double wiring*1						
09	9 stations		04	4 stations							
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2						
:	:	(Up to 18	:	1	(Up to 8						
18	18 stations	solenoids available)	08	8 stations	solenoids available)						
1 D	ouble v	viring: 2-position single	, doub	le, 3-pc	sition, and 4-position						
valves can be used on all manifold stations.											
Use of a 2-position single solenoid will result in an unused control											
signal. If this is not desired, order with a specified layout.											
*2 Specified layout: Indicate the wiring specifications on the manifold											
2 S	pecilieu	ayout malouto and mining	g opoor	specification sheet. (Note that 2-position double, 3-position, and 4-position							

How to Order Manifold Assembly

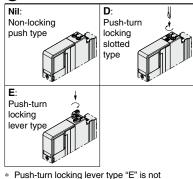


4 Rated voltage 24 VDC 5

5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	
U			Non-polar	
Z	•	•	Positive common	
NZ			Negative common	

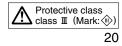
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.



available for the JSY1000.

When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service.

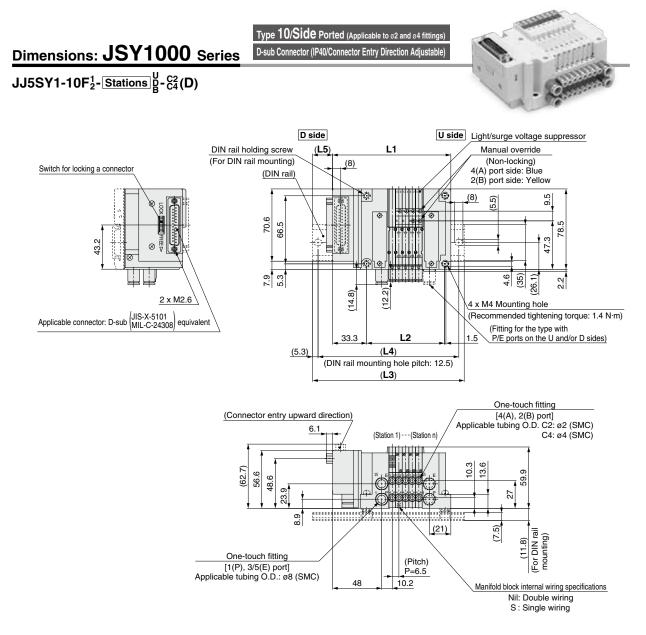
Refer to page 107 for base gasket and mounting screw part numbers.



∧ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114. Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

For the JSY1000 series only the power saving circuit is available.



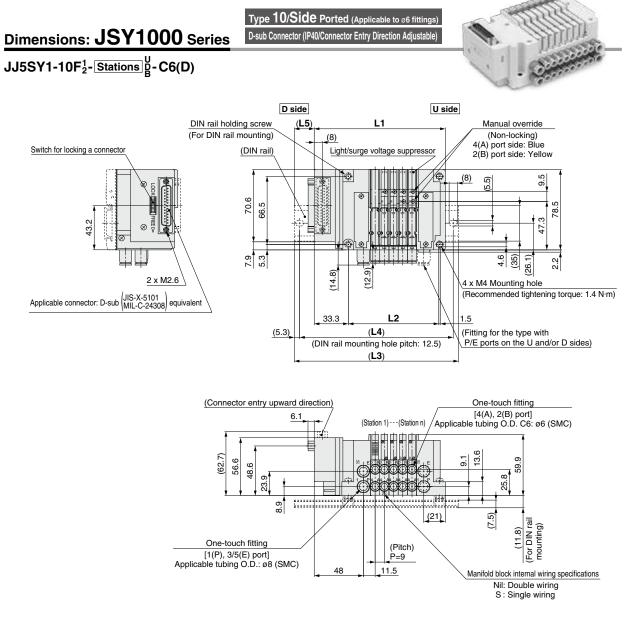
* These figures show the "JJ5SY1-10F2-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	ensior	IS												r	n: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	96	102.5	109	115.5	122	128.5	135	141.5	148	154.5	161	167.5	174	180.5	187
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18	21
				,											
L n	17	18	19	20	21	22	23	24							
L1	193.5	200	206.5	213	219.5	226	232.5	239							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	223	235.5	248	248	260.5	260.5	273	273							
L4	212.5	225	237.5	237.5	250	250	262.5	262.5							
L5	18	21	24	20.5	23.5	20.5	23.5	20	-						
21							S	SMC	-						

Connector Connecting Base JSY1000/3000/5000 Series

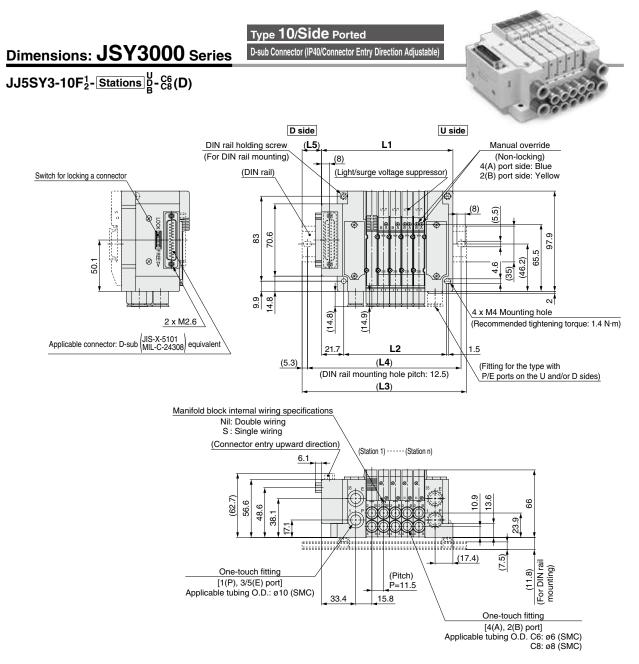


* These figures show the "JJ5SY1-10F2-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ensior	IS												r	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	101	110	119	128	137	146	155	164	173	182	191	200	209	218	227
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5
L4	125	137.5	150	150	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250
L5	20.5	22	24	19.5	21	23	18.5	20	22	23.5	19	21	22.5	18	20
	1	1	·	1		, 1	1	, 1			•			·	
L n	17	18	19	20	21	22	23	24							
L1	236	245	254	263	272	281	290	299							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	273	285.5	285.5	298	310.5	310.5	323	335.5							
L4	262.5	275	275	287.5	300	300	312.5	325							
L5	21.5	23.5	19	20.5	22.5	18	19.5	21.5	-						
			•						-						00

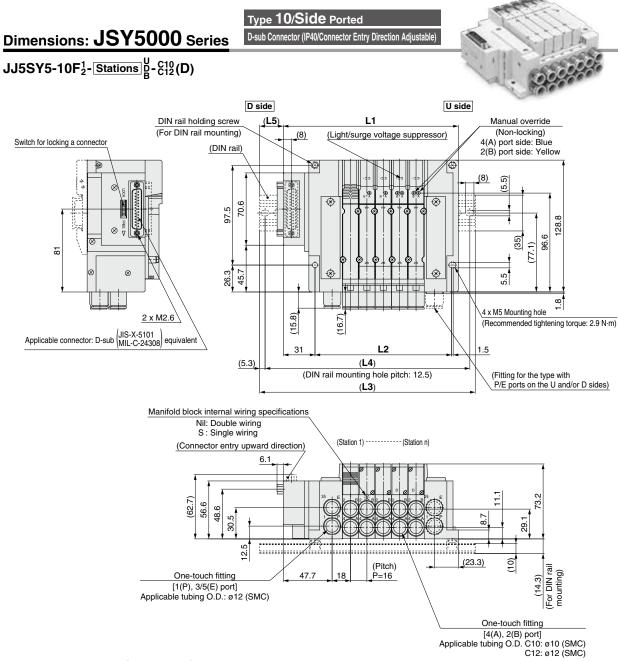


* These figures show the "JJ5SY3-10F2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ension	S												r	n: Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.8	105.3	116.8	128.3	139.8	151.3	162.8	174.3	185.8	197.3	208.8	220.3	231.8	243.3	254.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275
L5	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	18	18.5
L n	17	18	19	20	21	22	23	24							
L1	266.3	277.8	289.3	300.8	312.3	323.8	335.3	346.8							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	298	310.5	323	335.5	348	360.5	373	385.5							
L4	287.5	300	312.5	325	337.5	350	362.5	375							
L5	19	19.5	20	20.5	21	21.5	22	22.5							
23							6	SMC							

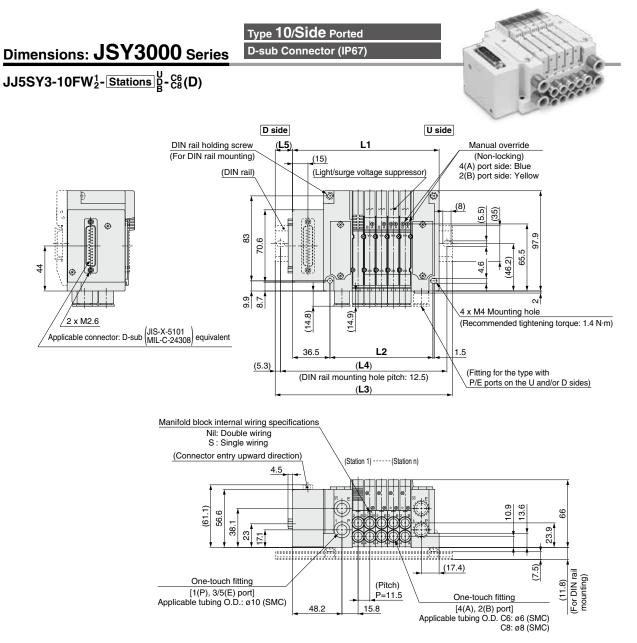
Eligent Connector Connecting Base JSY1000/3000/5000 Series



* These figures show the "JJ5SY5-10F2-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ensior	ıs												r	n: Stations
) J	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	123	139	155	171	187	203	219	235	251	267	283	299	315	331	347
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	185.5	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	360.5	385.5
L4	150	162.5	175	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	350	375
L5	22	20	18.5	23	21	19.5	24	22	20.5	18.5	23	21.5	19.5	18	22.5
L	17	18	19	20	21	22	23	24							
L1	363	379	395	411	427	443	459	475							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5							
L3	398	410.5	435.5	448	460.5	473	498	510.5							
L4	387.5	400	425	437.5	450	462.5	487.5	500							
L5	20.5	19	23.5	21.5	20	18	22.5	21	-						
									-						24

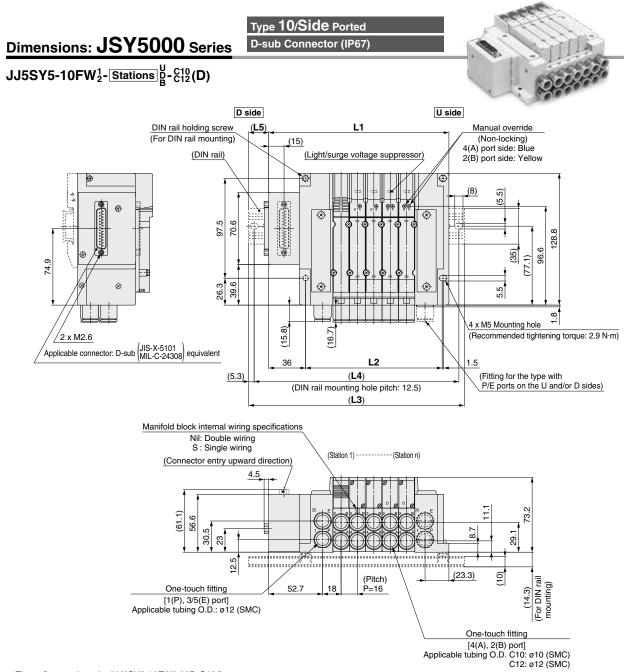


* These figures show the "JJ5SY3-10FW2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ensior	IS												r	: Stations
) L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	108.6	120.1	131.6	143.1	154.6	166.1	177.6	189.1	200.6	212.1	223.6	235.1	246.6	258.1	269.6
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	148	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298
L4	137.5	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	287.5
L5	22	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	16.5
L n	17	18	19	20	21	22	23	24							
L1	281.1	292.6	304.1	315.6	327.1	338.6	350.1	361.6							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	310.5	323	335.5	348	360.5	373	385.5	398							
L4	300	312.5	325	337.5	350	362.5	375	387.5							
L5	17	17.5	18	18.5	19	19.5	20	20.5							
25							Ø9	SMC							

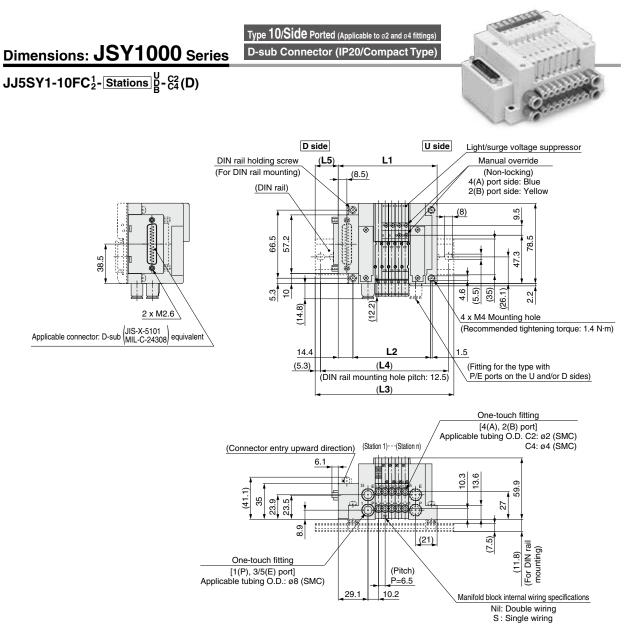
Elestin Connector Connecting Base JSY1000/3000/5000 Series



* These figures show the "JJ5SY5-10FW2-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ensior	IS												r	: Stations
/ 	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	348	373	385.5
L4	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	337.5	362.5	375
L5	18.5	17	21.5	19.5	18	22.5	20.5	19	17	21.5	20	18	16.5	21	19
L n	17	18	19	20	21	22	23	24							
L1	368	384	400	416	432	448	464	480							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5							
L3	398	423	435.5	448	460.5	485.5	498	510.5							
L4	387.5	412.5	425	437.5	450	475	487.5	500							
L5	17.5	22	20	18.5	16.5	21	19.5	17.5							
															26



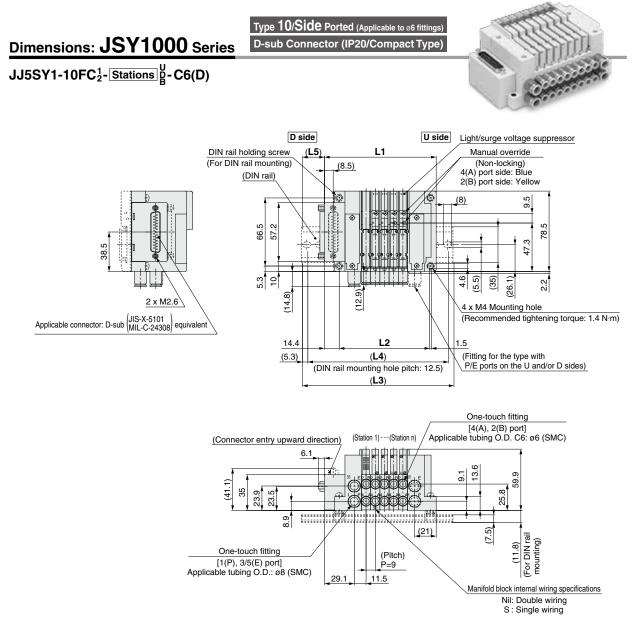
* These figures show the "JJ5SY1-10FC2-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	ension	IS												r	n: Stations
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	77.1	83.6	90.1	96.6	103.1	109.6	116.1	122.6	129.1	135.6	142.1	148.6	155.1	161.6	168.1
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	110.5	123	123	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198
L4	100	112.5	112.5	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5
L5	20	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18
	. –														
L	17	18	19	20	21	22	23	24							
L1	174.6	181.1	187.6	194.1	200.6	207.1	213.6	220.1							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	210.5	210.5	223	235.5	235.5	248	248	260.5							
L4	200	200	212.5	225	225	237.5	237.5	250							
L5	21	18	21	24	20.5	23.5	20.5	23.5							
27							69	SMC							

Connector Connecting Base JSY1000/3000/5000 Series

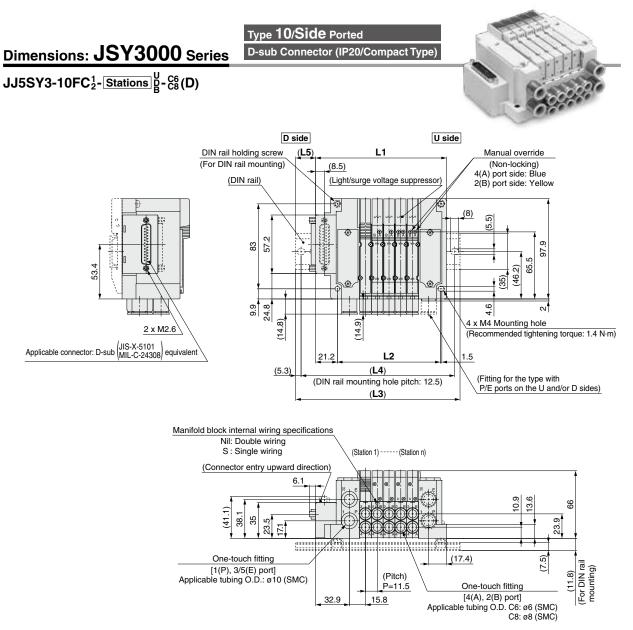


* These figures show the "JJ5SY1-10FC2-05D-C6."

 Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	ensior	IS												r	: Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	82.1	91.1	100.1	109.1	118.1	127.1	136.1	145.1	154.1	163.1	172.1	181.1	190.1	199.1	208.1
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248
L4	112.5	112.5	125	137.5	137.5	150	162.5	175	175	187.5	200	200	212.5	225	237.5
L5	23.5	19	21	22.5	18	20	21.5	23.5	19	20.5	22.5	18	19.5	21.5	23
L n	17	18	19	20	21	22	23	24							
L1	217.1	226.1	235.1	244.1	253.1	262.1	271.1	280.1							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	248	260.5	273	285.5	285.5	298	310.5	310.5							
L4	237.5	250	262.5	275	275	287.5	300	300							
L5	18.5	20.5	22	24	19.5	21	23	18.5							

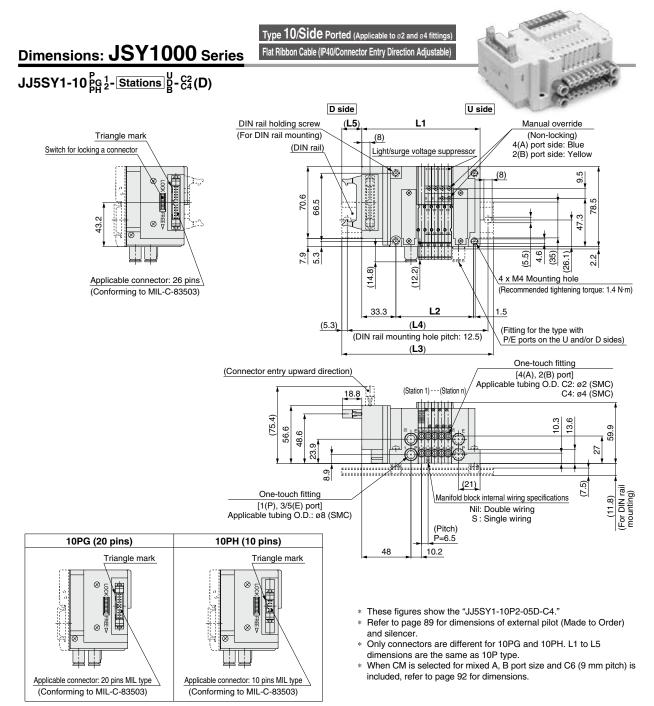


* These figures show the "JJ5SY3-10FC2-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

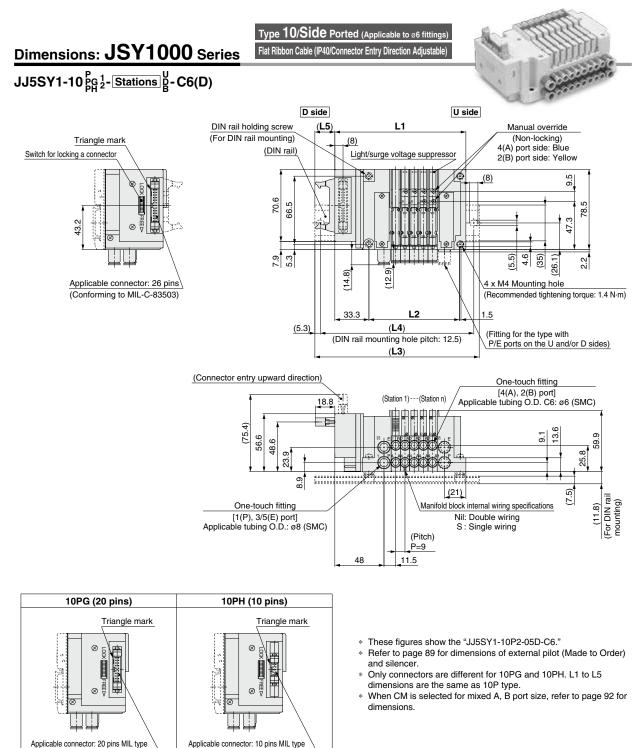
L: Dim	ension	IS												r	n: Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.3	104.8	116.3	127.8	139.3	150.8	162.3	173.8	185.3	196.8	208.3	219.8	231.3	242.8	254.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	260.5	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	250	262.5	275
L5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	17.5	18	18.5
L n	17	18	19	20	21	22	23	24							
L1	265.8	277.3	288.8	300.3	311.8	323.3	334.8	346.3							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	298	310.5	323	335.5	348	360.5	373	385.5							
L4	287.5	300	312.5	325	337.5	350	362.5	375							
L5	19	19.5	20	20.5	21	21.5	22	22.5	-						
29								SMC	-						

Connector Connecting Base JSY1000/3000/5000 Series



L: Dimensio	ne
L. Dimensio	113

L: Dim	nensior	IS												r	n: Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	96	102.5	109	115.5	122	128.5	135	141.5	148	154.5	161	167.5	174	180.5	187
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18	21
	1		1	1		1		1							
L n	17	18	19	20	21	22	23	24							
L1	193.5	200	206.5	213	219.5	226	232.5	239							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	223	235.5	248	248	260.5	260.5	273	273							
L4	212.5	225	237.5	237.5	250	250	262.5	262.5							
L5	18	21	24	20.5	23.5	20.5	23.5	20							

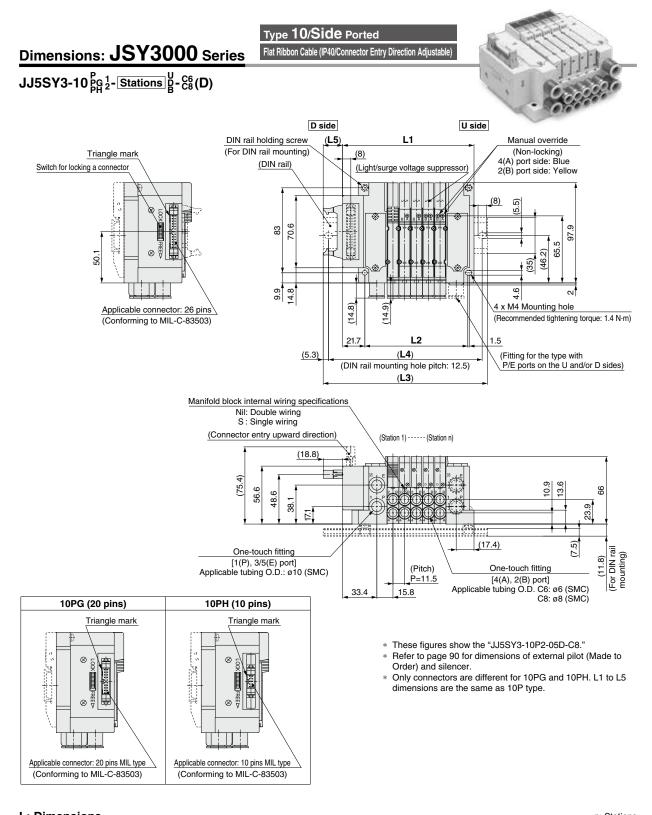


L: Din	nens	ions																				n: S	tations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	101	110	119	128	137	146	155	164	173	182	191	200	209	218	227	236	245	254	263	272	281	290	299
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5
L4	125	137.5	150	150	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5	300	300	312.5	325
L5	20.5	22	24	19.5	21	23	18.5	20	22	23.5	19	21	22.5	18	20	21.5	23.5	19	20.5	22.5	18	19.5	21.5

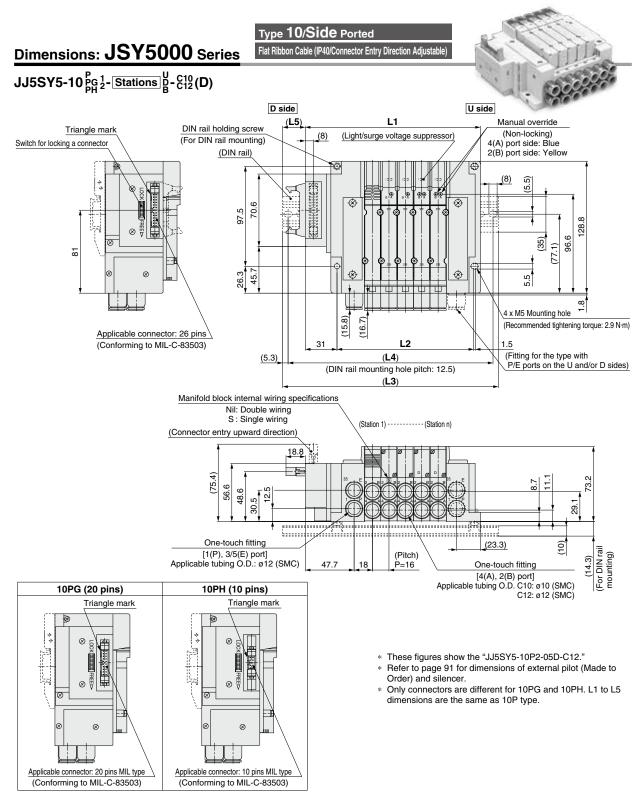
(Conforming to MIL-C-83503)

(Conforming to MIL-C-83503)

Connector Connecting Base JSY1000/3000/5000 Series



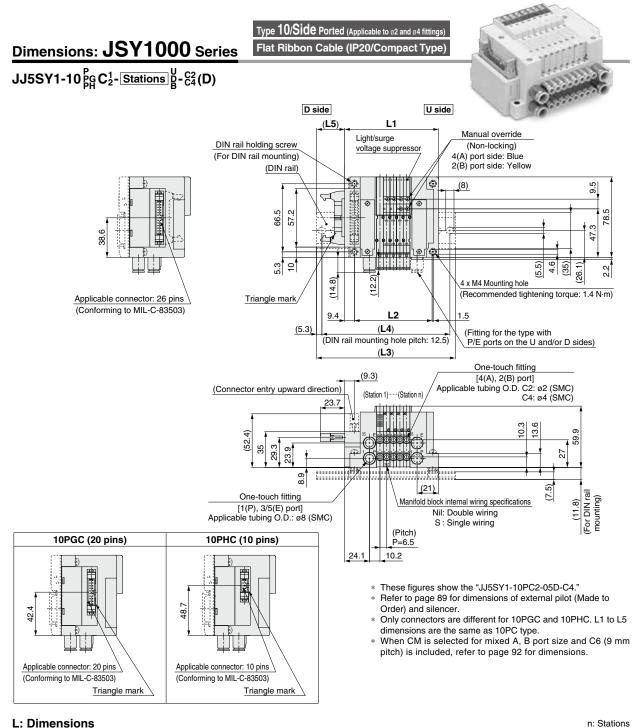
L: Din	L: Dimensions n: Stations															tations							
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	93.8	105.3	116.8	128.3	139.8	151.3	162.8	174.3	185.8	197.3	208.8	220.3	231.8	243.3	254.8	266.3	277.8	289.3	300.8	312.3	323.8	335.3	346.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5	325	337.5	350	362.5	375
L5	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5



L: Din	L: Dimensions n: Stations															tations							
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	123	139	155	171	187	203	219	235	251	267	283	299	315	331	347	363	379	395	411	427	443	459	475
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	160.5	173	185.5	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5
L4	150	162.5	175	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	350	375	387.5	400	425	437.5	450	462.5	487.5	500
L5	22	20	18.5	23	21	19.5	24	22	20.5	18.5	23	21.5	19.5	18	22.5	20.5	19	23.5	21.5	20	18	22.5	21

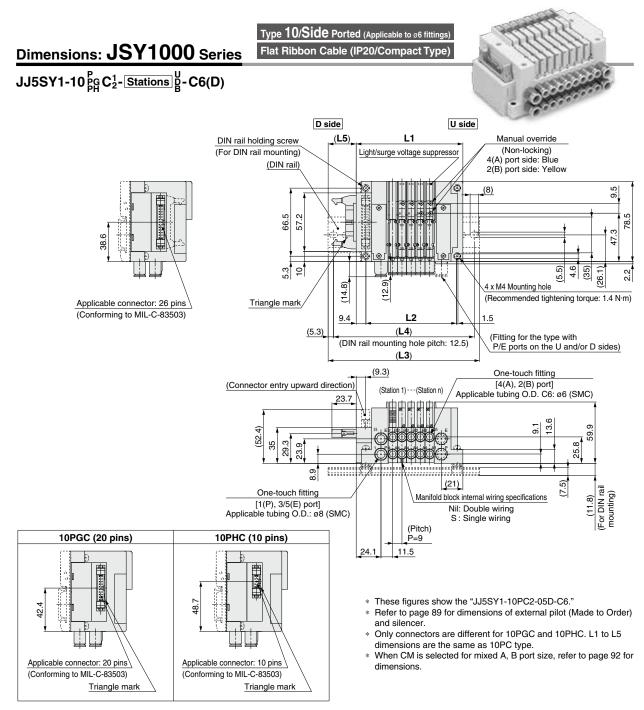
SMC

Connector Connecting Base JSY1000/3000/5000 Series

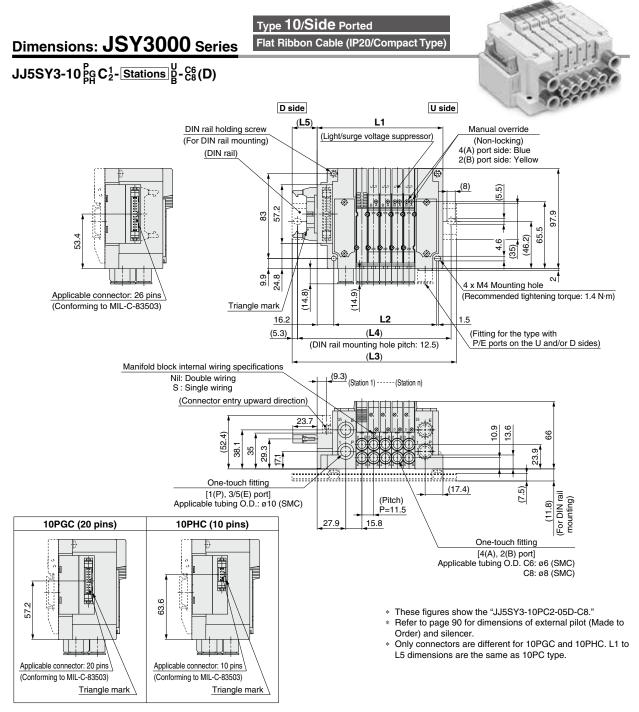


L: Dimensions

0110101														
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
72.1	78.6	85.1	91.6	98.1	104.6	111.1	117.6	124.1	130.6	137.1	143.6	150.1	156.6	163.1
56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
110.5	123	123	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198
100	112.5	112.5	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5
25	28	24.5	27.5	24.5	27.5	24	27	24	27	23.5	26.5	23.5	26.5	23
17	18	19	20	21	22	23	24							
169.6	176.1	182.6	189.1	195.6	202.1	208.6	215.1							
153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
210.5	210.5	223	235.5	235.5	248	248	260.5							
200	200	212.5	225	225	237.5	237.5	250							
26	23	26	29	25.5	28.5	25.5	28.5							
	2 72.1 56.4 110.5 100 25 17 169.6 153.9 210.5 200	2 3 72.1 78.6 56.4 62.9 110.5 123 100 112.5 25 28 17 18 169.6 176.1 153.9 160.4 210.5 200	2 3 4 72.1 78.6 85.1 56.4 62.9 69.4 110.5 123 123 100 112.5 112.5 25 28 24.5 17 18 19 169.6 176.1 182.6 153.9 160.4 166.9 210.5 210.5 223 200 200 212.5	2 3 4 5 72.1 78.6 85.1 91.6 56.4 62.9 69.4 75.9 110.5 123 123 135.5 100 112.5 112.5 125 25 28 24.5 27.5 17 18 19 20 169.6 176.1 182.6 189.1 153.9 160.4 166.9 173.4 210.5 210.5 223 235.5 200 200 212.5 225	2 3 4 5 6 72.1 78.6 85.1 91.6 98.1 56.4 62.9 69.4 75.9 82.4 110.5 123 123 135.5 135.5 100 112.5 112.5 125 125 25 28 24.5 27.5 24.5 17 18 19 20 21 169.6 176.1 182.6 189.1 195.6 153.9 160.4 166.9 173.4 179.9 210.5 210.5 223 235.5 235.5 200 200 212.5 225 225	2 3 4 5 6 7 72.1 78.6 85.1 91.6 98.1 104.6 56.4 62.9 69.4 75.9 82.4 88.9 110.5 123 123 135.5 135.5 148 100 112.5 112.5 125 125 137.5 25 28 24.5 27.5 24.5 27.5 17 18 19 20 21 22 169.6 176.1 182.6 189.1 195.6 202.1 153.9 160.4 166.9 173.4 179.9 186.4 210.5 210.5 223 235.5 235.5 248 200 200 212.5 225 237.5 245	2 3 4 5 6 7 8 72.1 78.6 85.1 91.6 98.1 104.6 111.1 56.4 62.9 69.4 75.9 82.4 88.9 95.4 110.5 123 123 135.5 135.5 148 148 100 112.5 125 125 137.5 137.5 25 28 24.5 27.5 24.5 27.5 24 17 18 19 20 21 22 23 169.6 176.1 182.6 189.1 195.6 202.1 208.6 153.9 160.4 166.9 173.4 179.9 186.4 192.9 210.5 210.5 223 235.5 235.5 248 248 200 200 212.5 225 237.5 237.5 237.5	2 3 4 5 6 7 8 9 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 110.5 123 123 135.5 135.5 148 148 160.5 100 112.5 112.5 125 125 137.5 150 25 28 24.5 27.5 24.5 27.5 24 27 17 18 19 20 21 22 23 24 169.6 176.1 182.6 189.1 195.6 202.1 208.6 215.1 153.9 160.4 166.9 173.4 179.9 186.4 192.9 199.4 210.5 210.5 223 235.5 235.5 248 248 260.5 200 200 212.5 225 237.5 237.5	2 3 4 5 6 7 8 9 10 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 110.5 123 123 135.5 135.5 148 148 160.5 160.5 100 112.5 112.5 125 125 137.5 150 150 25 28 24.5 27.5 24.5 27.5 24 27 24 17 18 19 20 21 22 23 24 169.6 176.1 182.6 189.1 195.6 202.1 208.6 215.1 153.9 160.4 166.9 173.4 179.9 186.4 192.9 199.4 210.5 210.5 223 235.5 235.5 248 248 260.5	2 3 4 5 6 7 8 9 10 11 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 130.6 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 110.5 123 123 135.5 135.5 148 148 160.5 160.5 173 100 112.5 112.5 125 125 137.5 137.5 150 160.5 162.5 25 28 24.5 27.5 24.5 27.5 24 27 24 27 17 18 19 20 21 22 23 24 169.6 176.1 182.6 189.1 195.6 202.1 208.6 215.1 153.9 160.4 166.9 173.4 179.9 186.4 192.9 199.4 210.5 210.5	2 3 4 5 6 7 8 9 10 11 12 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 130.6 137.1 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 121.4 110.5 123 123 135.5 135.5 148 148 160.5 160.5 173 173 100 112.5 112.5 125 125 137.5 137.5 150 160.5 162.5 162.5 25 28 24.5 27.5 24.5 27.5 24 27 24 27 23.5 17 18 19 20 21 22 23 24 169.6 176.1 182.6 189.1 195.6 202.1 208.6 215.1 153.9 160.4 166.9 173.4 179.9	2 3 4 5 6 7 8 9 10 11 12 13 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 130.6 137.1 143.6 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 121.4 127.9 110.5 123 123 135.5 135.5 148 148 160.5 160.5 173 173 185.5 100 112.5 112.5 125 137.5 137.5 150 160.5 162.5 162.5 175 25 28 24.5 27.5 24.5 27.5 24 27 24 27 23.5 26.5 17 18 19 20 21 22 23 24 169.6 176.1 182.6 189.1 195.6 202.1 208.6 215.1	2 3 4 5 6 7 8 9 10 11 12 13 14 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 130.6 137.1 143.6 150.1 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 121.4 127.9 134.4 110.5 123 123 135.5 135.5 148 148 160.5 160.5 173 173 185.5 185.5 100 112.5 112.5 125 125 137.5 150 150 162.5 162.5 175 175 25 28 24.5 27.5 24.5 27.5 24 27 24 27 23.5 26.5 23.5 17 18 19 20 21 22 23 24 27 23.5 26.5 23.5	2 3 4 5 6 7 8 9 10 11 12 13 14 15 72.1 78.6 85.1 91.6 98.1 104.6 111.1 117.6 124.1 130.6 137.1 143.6 150.1 156.6 56.4 62.9 69.4 75.9 82.4 88.9 95.4 101.9 108.4 114.9 121.4 127.9 134.4 140.9 110.5 123 123 135.5 135.5 148 148 160.5 160.5 173 173 185.5 185.5 198 100 112.5 112.5 125 125 137.5 150 150 162.5 162.5 175 175 187.5 25 28 24.5 27.5 24.5 27.5 24 27 24 27 23.5 26.5 23.5 26.5 17 18 19 20 21 22



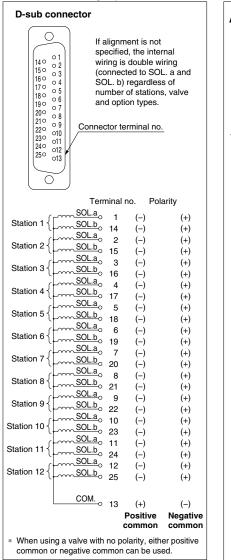
L: Dim	L: Dimensions n: Stations														
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	77.1	86.1	95.1	104.1	113.1	122.1	131.1	140.1	149.1	158.1	167.1	176.1	185.1	194.1	203.1
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248
L4	112.5	112.5	125	137.5	137.5	150	162.5	175	175	187.5	200	200	212.5	225	237.5
L5	28.5	24	26	27.5	23	25	26.5	28.5	24	25.5	27.5	23	24.5	26.5	28
L n	17	18	19	20	21	22	23	24							
L1	212.1	221.1	230.1	239.1	248.1	257.1	266.1	275.1							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	248	260.5	273	285.5	285.5	298	310.5	310.5							
L4	237.5	250	262.5	275	275	287.5	300	300							
L5	23.5	25.5	27	29	24.5	26	28	23.5							



L: Dimensions

L: Dim	L: Dimensions n: Stations														
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	88.3	99.8	111.3	122.8	134.3	145.8	157.3	168.8	180.3	191.8	203.3	214.8	226.3	237.8	249.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275
L5	23	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	23	23.5
	1		1	1		1									
L n	17	18	19	20	21	22	23	24							
L1	260.8	272.3	283.8	295.3	306.8	318.3	329.8	341.3							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	298	310.5	323	335.5	348	360.5	373	385.5							
L4	287.5	300	312.5	325	337.5	350	362.5	375							
L5	24	24.5	25	25.5	26	26.5	27	27.5							
															~~

Electrical Wiring Specifications



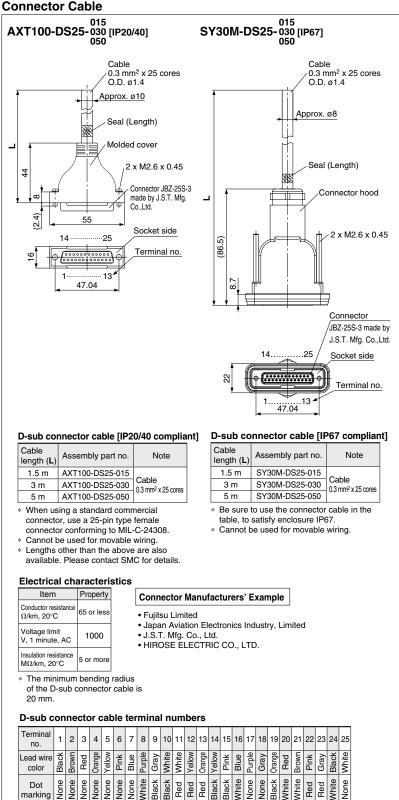
Specified Layout

(25 pins)

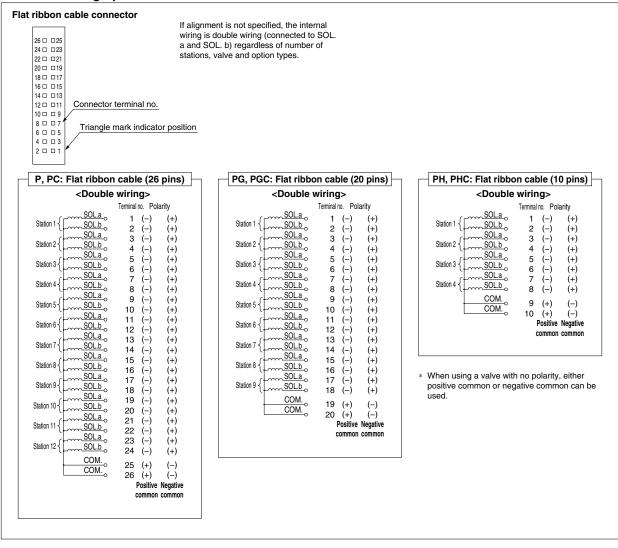
double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 24 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

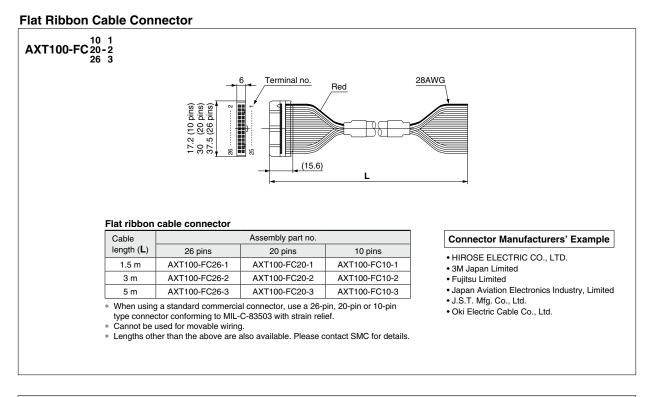
Mixed wiring of single and

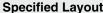
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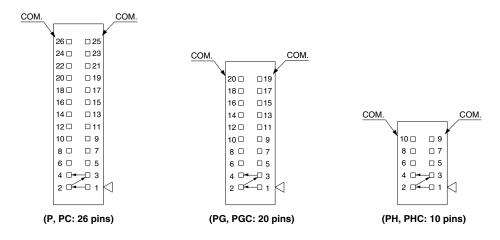


Electrical Wiring Specifications









Mixed wiring of single and double wiring can be specified on the manifold specification. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 24 or less for P and PC, 18 or less for PG and PGC, and 8 or less for PH and PHC. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

Plug-in Connector Connecting Base

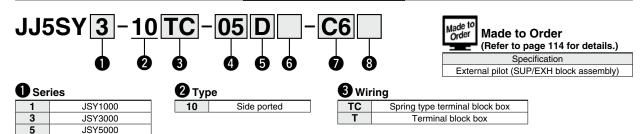
Spring Type Terminal Block Box Terminal Block Box



JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



4 Valve stations

TC:	Spring t	type terminal block box	T: Terminal block box										
Symbol	Stations	Note	Symb	ol	Stations	Note							
02	2 stations		02	2	2 stations								
:	:	Double wiring*1	:		:	Double wiring*1							
16	16 stations	-	10)	10 stations	-							
02	2 stations	Specified layout*2	02	2	2 stations	Specified layout*2							
:	:	(Up to 32 solenoids	:		:	(Up to 20 solenoids							
24	24 stations	available)	20)	20 stations	available)							
*1 D	1 Double wiring: 2-position single, double, 3-position, and 4-position												

- *1 Double winnig. 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control
- signal. If this is not desired, order with a specified layout. *2 Specified layout: Indicate the wiring specifications on the manifold
- specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
 This also includes the number of blanking plates.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	
C4		ø4	•	—	—	
C6	ЪТ,	ø6	•	•	—	
C8	Straight	ø8	—	•	—	
C10	5	ø10	—	—	•	
C12		ø12	—	—	•	00
CM *1		Straight port, mixed sizes	•	•	•	- Of Here
		port size uch fittings)	ø8	ø10	ø12	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

P, E port entry U U side (2 to 10 stations) D side (2 to 10 stations)

D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

Solution > 3/5(E) port is plugged for the built-in silencer type.

When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

RoHS

 The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)

* Refer to page 118 for the fixation of DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN ra	DIN rail mounting (With DIN rail)												
0	DIN rail	DIN rail mounting (Without DIN rail)												
3	For 3 stations													
:	:	specify a longer rall than												
24	For 24 stations	the standard length.												

How to Order Manifold Assembly

cuit (continuous duty type). Refer

Additionally, when it is used at the

energizing rate over 50%, please

select the product with power sav-

For the JSY1000 series only the

power saving circuit is available.

to Made to Order on page 114.

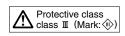
ing circuit.

Example (JJ5SY3-10TC) 2-position double (24 VDC) JJ5SY3-10TC-05D-C8 ··· 1 set (Type 10 5-station manifold base part no.) JSY3200-5U (3 sets) * JSY3100-5U 2 sets (2-position single part no.) JSY3200-5U 3 sets (2-position double part no.) 2-position single (24 VDC JSY3100-5U (2 sets) The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc. The valve arrangement is numbered as the 1st station from the D side. Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet. 4¥ Manifold base (5 stations) JJ5SY3-10TC-05D-C8 **Internal Pilot** How to Order Valves (With mounting screw) Refer to page 11 for valve specifications. With power saving circuit Made to Order **JSY1000** Series Made to JSY 00 (Refer to page 114 for Order details.) Specification JSY3000/5000 Series JSY 3 0 With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000) External pilot Base mounted 6 Manual override Series 2 Type of actuation JSY1000 Single 1 Nil: D: 2-position 3 JSY3000 2 Double Non-locking Push-turn JSY5000 3 Closed center push type locking slotted 5 type 4 3-position Exhaust center 5 Pressure center N.C./N.C. Α B Pilot valve exhaust method 4-position В N.O./N.O. 0 Pilot valve individual exhaust dual 3-port N.C./N.O. E: С Push-turn locking lever A Rated voltage **5** Light/surge voltage suppressor type and common specification 24 VDC Surge voltage Common With light Symbol suppressor specification * Push-turn locking lever type "E" is not U Non-polar available for the JSY1000. Ζ Positive common **∧** Caution NZ Negative common If the JSY3000/5000 series will be Only "Z" and "NZ" types are available for the When ordering a valve individually, the JSY1000 series. continuously energized, please be base gasket is not included. When non-polar common specification type is Since the base gasket is attached to the sure to use the power saving cir-

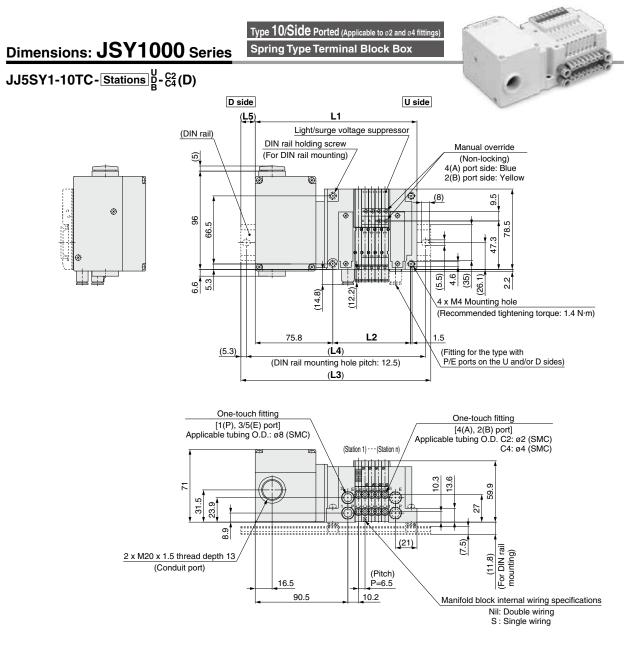
selected, take measures to prevent surge voltage. For details, refer to page 117.

manifold, please order the base gasket separately if it is needed for maintenance service.

Refer to page 107 for base gasket and mounting screw part numbers.



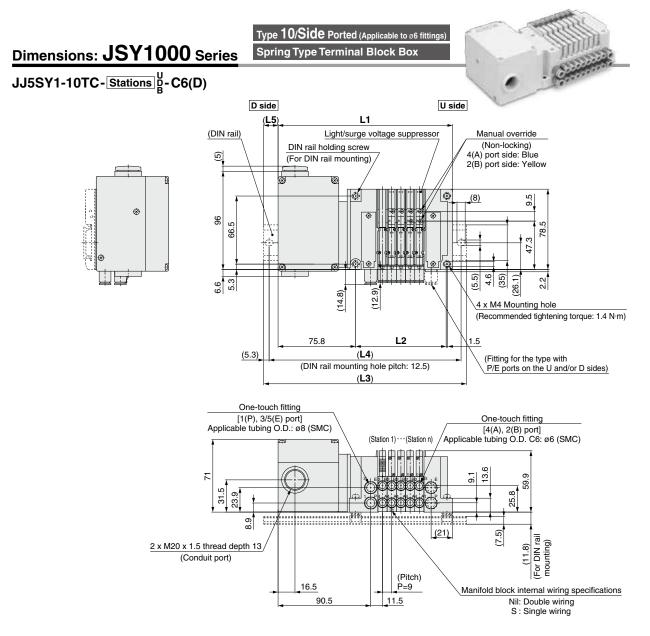
SMC



 These figures show the "JJ5SY1-10TC-05D-C4."
 Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dimensions n: Stations															
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	138.5	145	151.5	158	164.5	171	177.5	184	190.5	197	203.5	210	216.5	223	229.5
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	173	173	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5
L4	162.5	162.5	175	175	187.5	187.5	200	200	212.5	212.5	225	225	237.5	237.5	250
L5	17.5	14	17	14	17	13.5	16.5	13.5	16.5	13	16	13	16	12.5	15.5
<u> </u>															
L n	17	18	19	20	21	22	23	24							
L1	236	242.5	249	255.5	262	268.5	275	281.5							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	260.5	273	273	285.5	285.5	298	310.5	310.5							
L4	250	262.5	262.5	275	275	287.5	300	300							
L5	12.5	15.5	12	15	12	15	18	14.5							
43							6	SMC							

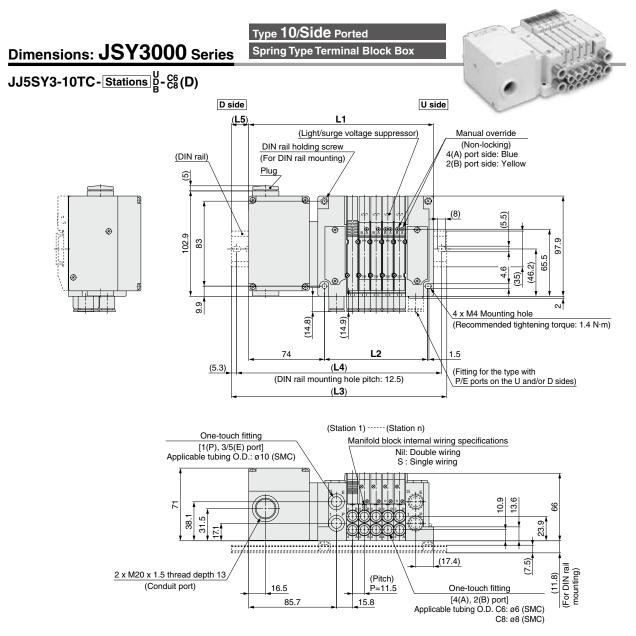


* These figures show the "JJ5SY1-10TC-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

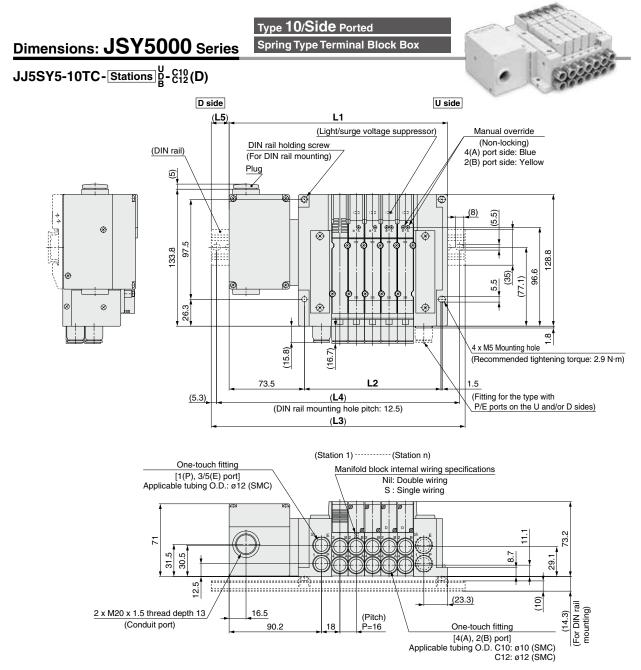
L: Dim	L: Dimensions n: Stations														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	143.5	152.5	161.5	170.5	179.5	188.5	197.5	206.5	215.5	224.5	233.5	242.5	251.5	260.5	269.5
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298
L4	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5
L5	15	16.5	12	14	15.5	17.5	13	14.5	16.5	12	13.5	15.5	17	12.5	14.5
						1									
L n	17	18	19	20	21	22	23	24							
L1	278.5	287.5	296.5	305.5	314.5	323.5	332.5	341.5							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	310.5	323	323	335.5	348	348	360.5	373							
L4	300	312.5	312.5	325	337.5	337.5	350	362.5							
L5	16	18	13.5	15	17	12.5	14	16							
L5	16	18	13.5	15	17	12.5	14	16							



* These figures show the "JJ5SY3-10TC-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

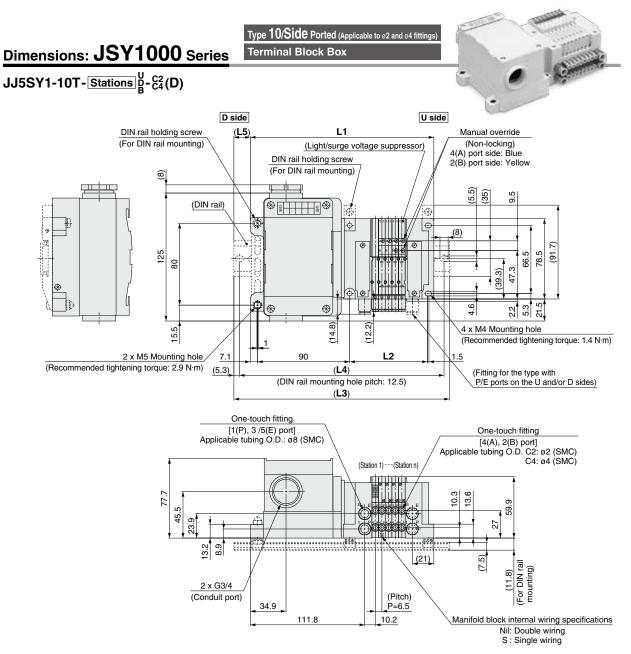
L: Dim	L: Dimensions n: Stations														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	146.1	157.6	169.1	180.6	192.1	203.6	215.1	226.6	238.1	249.6	261.1	272.6	284.1	295.6	307.1
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5
L4	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5	325
L5	13.5	14	14.5	15	15.5	16	16.5	17	17.5	11.5	12	12.5	13	13.5	14
<u> </u>															
L n	17	18	19	20	21	22	23	24							
L1	318.6	330.1	341.6	353.1	364.6	376.1	387.6	399.1							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	348	360.5	373	385.5	398	410.5	423	423							
L4	337.5	350	362.5	375	387.5	400	412.5	412.5							
L5	14.5	15	15.5	16	16.5	17	17.5	12							
45							6	SMC							



* These figures show the "JJ5SY5-10TC-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	325.5	341.5	357.5	373.5	389.5
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423
L4	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5
L5	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17
L n	17	18	19	20	21	22	23	24							
L1	405.5	421.5	437.5	453.5	469.5	485.5	501.5	517.5							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5							
L3	435.5	448	473	485.5	498	510.5	535.5	548							
L4	425	437.5	462.5	475	487.5	500	525	537.5							
L5	15	13.5	18	16	14.5	12.5	17	15.5							
							-								40

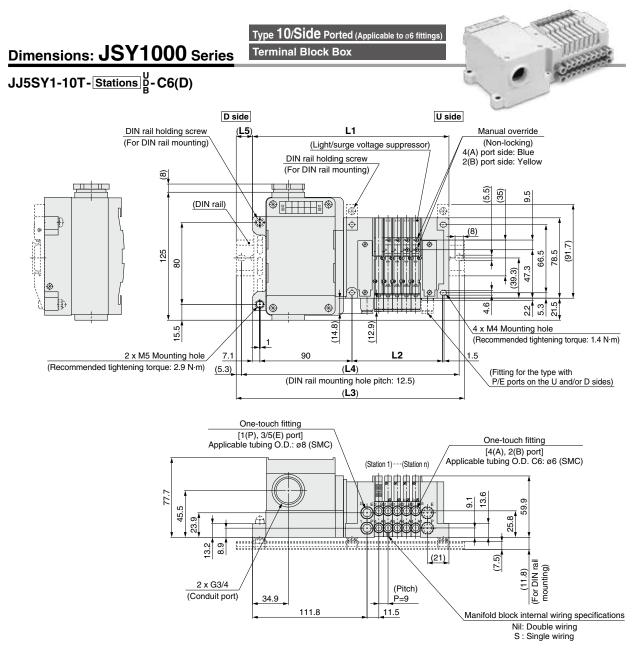


* These figures show the "JJ5SY1-10T-05D-C4."

Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
 When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dimensions n: Station:												: Stations			
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	159.8	166.3	172.8	179.3	185.8	192.3	198.8	205.3	211.8	218.3	224.8	231.3	237.8	244.3	250.8
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	273	273	285.5
L4	175	187.5	187.5	200	200	212.5	212.5	225	225	237.5	237.5	250	262.5	262.5	275
L5	13	16	13	16	13	16	12	15	12	15	12	15	18	15	18
	•		•			•	•	•	•		•	•	•	·	

L n	17	18	19	20
L1	257.3	263.8	270.3	276.8
L2	153.9	160.4	166.9	173.4
L3	285.5	298	298	310.5
L4	275	287.5	287.5	300
L5	14	17	14	17
47				



* These figures show the "JJ5SY1-10T-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Static														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	164.8	173.8	182.8	191.8	200.8	209.8	218.8	227.8	236.8	245.8	254.8	263.8	272.8	281.8	290.8
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	198	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323
L4	187.5	187.5	200	212.5	225	225	237.5	250	250	262.5	275	287.5	287.5	300	312.5
L5	17	12	14	16	18	13	15	17	12	14	16	17	13	15	16
\sum_{n}	47	10	40												
L / "	17	18	19	20											

L1

L2

L3

L4

L5

299.8

196.4

323

312.5

12

308.8

205.4

335.5

325

14

317.8

214.4

348

337.5

15

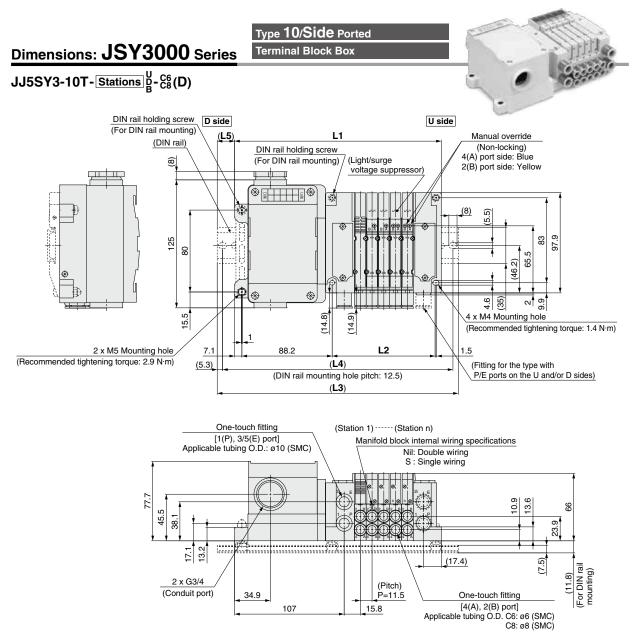
326.8

223.4

360.5

350

17



* These figures show the "JJ5SY3-10T-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
) J	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	167.4	178.9	190.4	201.9	213.4	224.9	236.4	247.9	259.4	270.9	282.4	293.9	305.4	316.9	328.4
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5
L4	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	312.5	325	337.5	350
L5	16	16	17	17	18	12	12	13	13	14	14	15	15	16	16
						•		·			•				
L n	17	18	19	20											
L1	339.9	351.4	362.9	374.4											
L2	238.6	250.1	261.6	273.1											
L3	373	385.5	398	398											

L4

362.5

17

375

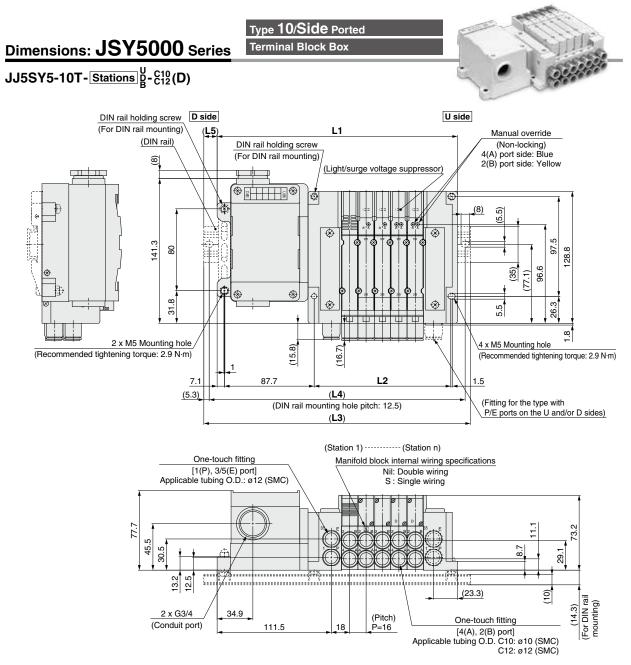
17

387.5

18

387.5

12



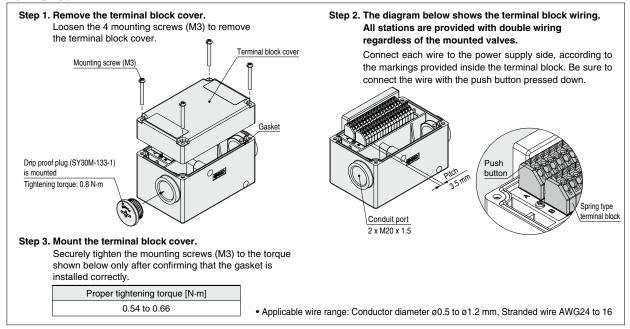
* These figures show the "JJ5SY5-10T-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Din	nension	S												n	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	186.8	202.8	218.8	234.8	250.8	266.8	282.8	298.8	314.8	330.8	346.8	362.8	378.8	394.8	410.8
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398	410.5	423	435.5
L4	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5	400	412.5	425
L5	12	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5
<u> </u>	17	18	19	20											

L n	17	17 18 19					
L1	426.8	442.8	458.8	474.8			
L2	325.5	341.5	357.5	373.5			
L3	460.5	473	485.5	498			
L4	450	462.5	475	487.5			
L5	17	15	13.5	11.5			

Spring Type Terminal Block "TC" Connection



Electrical Wiring Specifications (IP67 compliant)

	Standard wiring	Specified Layout
 < □ □ □ □<td>Station 1 { SOL.b 1B (-)</td><td> (+) specified on the manifold specification she (+) The maximum number of stations is determined </td>	Station 1 { SOL.b 1B (-)	 (+) specified on the manifold specification she (+) The maximum number of stations is determined
	Station 2 SOL.b 2B (-)	(+) mined according to the number of solenoid (+) The total number of solenoids should be 32
	Station 3 (SOL.b 3B (-)	(+) less. 1 solenoid is required for the 2-positi (+) single, and 2 solenoids for the 2-position do
	Station 4 { SOL.b 4B (-)	(+) ble, 3-position, and 4-position.
	Station 5 $\begin{cases} 1000 \text{ SOLb} \\ 1000 \text{ SOLb} \\ 1000 \text{ SOL} \end{cases}$ 5 B (-)	
	Station 6 $\left\{ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	
0	Station 7 SOL.b 7B (-)	
If alignment is not specified, the internal wiring will be double wiring	Station 8 (-)	
(connected to SOL. a and SOL. b) regardless of number of stations,	Station 9 (SOL.b 9B (-)	
valve types, and option types.	Station 10 { SOL b 10B (-)	
* When using a valve with no	Station 11 (SOL.b 11B (-)	
polarity, either positive	Station 12 $\int \frac{300 \text{La}}{300 \text{Lb}} 0.12 \text{A} (-)$	

polarity, either positive common or negative common can be used.

(+)

(+)

(+)

(+)

(+)

(+)

(+)

(+)

(+)

(-)

(-) **Positive Negative** common common

(-)

(-)

(-)

(-)

(-)

(-)

(-)

(-)

(-)

(+)

(+)

<u>SOL.b</u>o 12B

.....<u>SOL.a</u>o 13A

<u>SOL.a</u>o 14A

SOL.b o 14B

SOL.b 15B

<u>SOL.a</u>o 16A

_____<u>SOL.b</u>_ 16B

-> COM.

-> COM.

Station 12

Station 13

Station 14

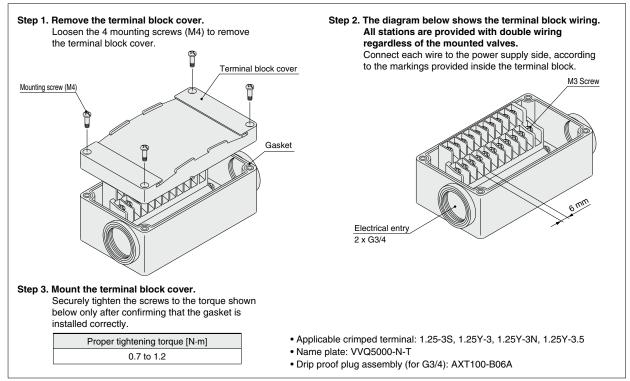
Station 15-

Station 16

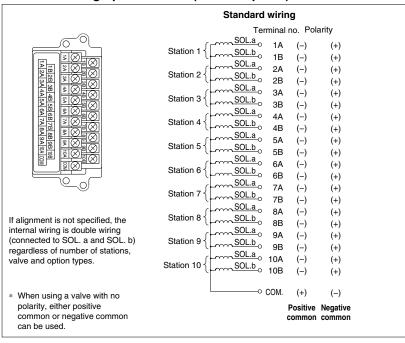
n be eet. eteroids. 82 or ition dou-

d () d	
₩(DA)	X ON
#ODN] ⊅(́DN
	SC D \
	S D L
)
	<i>,</i>

Terminal Block "T" Connection

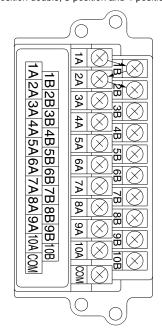


Electrical Wiring Specifications (IP67 compliant)



Specified Layout

Mixed wiring of single and double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 20 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

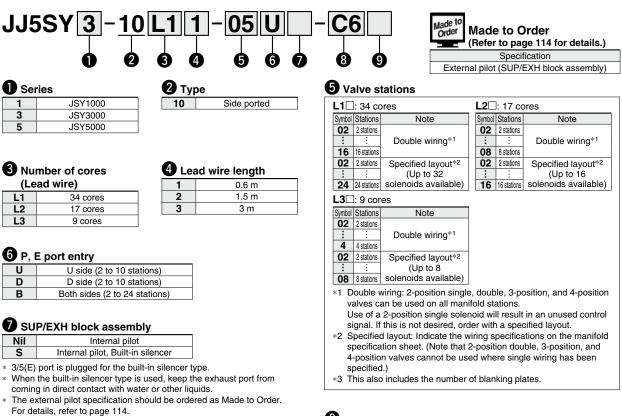


Plug-in Connector Connecting Base

Type 10 Side Ported

JSY1000/3000/5000 Series

How to Order Manifolds



8 A. B port size (Metric/One-touch fitting)

Lead Wire

•, = poir oi=o (or io router initia)												
Symbol		A, B port	JSY1000	JSY3000	JSY5000							
C2		ø2	•	—	_							
C4		ø4	•	—	_							
C6	Ę	ø6	•	•	_							
C8	Straight	ø8	_	•	_							
C10	l 1	ชี้ ø10 —		—	•							
C12		ø12	—	—	•	00						
CM *1		Straight port, mixed sizes	•	•	•	Octor						
		port size uch fittings)	ø8	ø10	ø12							

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

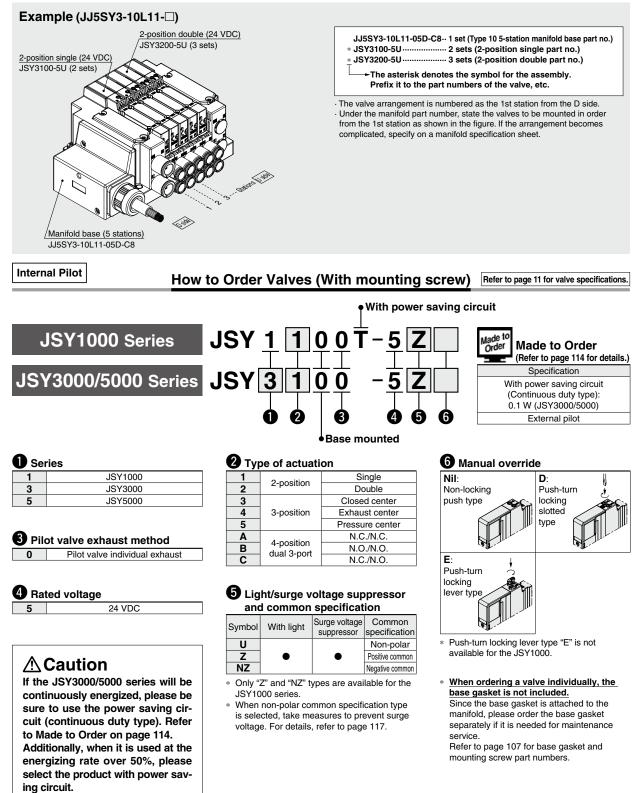
- * Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail mounting type manifold.

DIN Rail Option

Dirtitian	Birt Hall option												
Nil	DIN rail mounting (With DIN rail)												
0	DIN rail	DIN rail mounting (Without DIN rail)											
3	For 3 stations												
:		Specify a longer rail than the standard length.											
24	For 24 stations	the standard length.											

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

How to Order Manifold Assembly

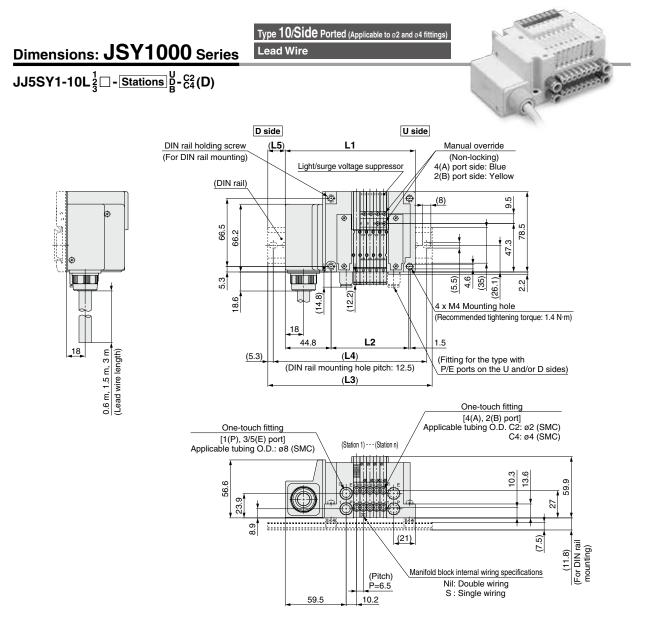


For the JSY1000 series only the power saving circuit is available.

Protective class

class II (Mark: ())

54

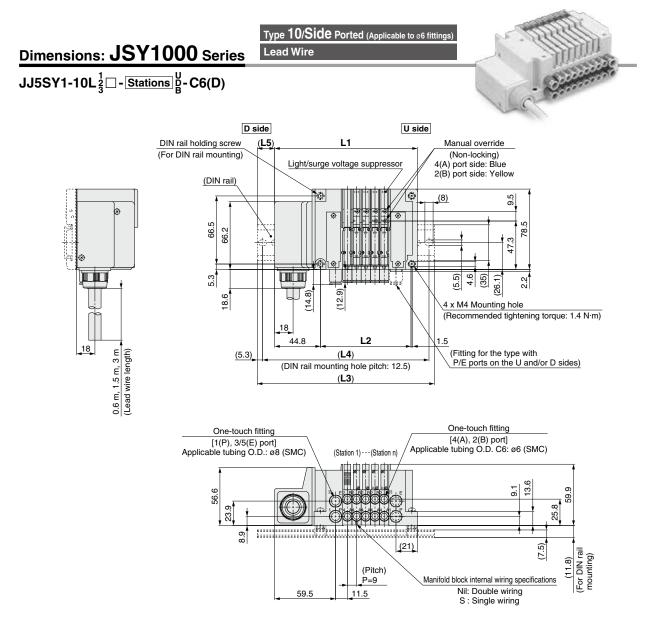


∗ These figures show the "JJ5SY1-10L1□-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Stations														
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	107.5	114	120.5	127	133.5	140	146.5	153	159.5	166	172.5	179	185.5	192	198.5
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223	223
L4	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5	212.5
L5	14	17	14	17	13.5	16.5	13.5	16.5	13	16	13	16	12.5	15.5	12.5
L n	17	18	19	20	21	22	23	24							
L1	205	211.5	218	224.5	231	237.5	244	250.5							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	235.5	235.5	248	248	260.5	273	273	285.5							
L4	225	225	237.5	237.5	250	262.5	262.5	275							
L5	15.5	12	15	12	15	18	14.5	17.5							
55							SMC								

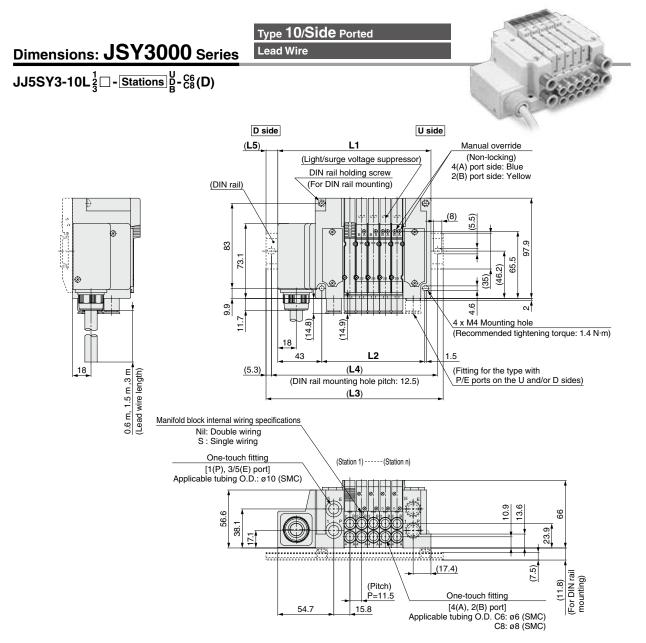


∗ These figures show the "JJ5SY1-10L1□-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

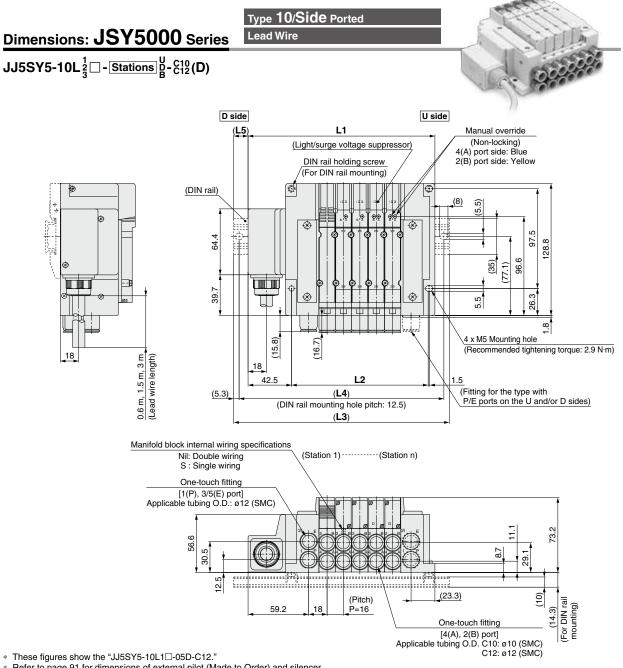
L: Dim	.: Dimensions n: Stations														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	112.5	121.5	130.5	139.5	148.5	157.5	166.5	175.5	184.5	193.5	202.5	211.5	220.5	229.5	238.5
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273
L4	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250	262.5
L5	18	13.5	15	17	12.5	14	16	17.5	13	15	16.5	12	14	15.5	17.5
L n	17	18	19	20	21	22	23	24							
L1	247.5	256.5	265.5	274.5	283.5	292.5	301.5	310.5							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	273	285.5	298	298	310.5	323	335.5	335.5							
L4	262.5	275	287.5	287.5	300	312.5	325	325							
L5	13	14.5	16.5	12	13.5	15.5	17	12.5							



* These figures show the "JJ5SY3-10L1□-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

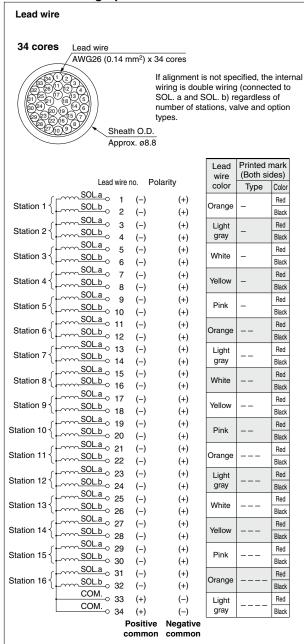
L: Dim	L: Dimensions n: Stations														
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	115.1	126.6	138.1	149.6	161.1	172.6	184.1	195.6	207.1	218.6	230.1	241.6	253.1	264.6	276.1
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	148	160.5	173	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5
L4	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300
L5	16.5	17	17.5	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17
L n	17	18	19	20	21	22	23	24							
L1	287.6	299.1	310.6	322.1	333.6	345.1	356.6	368.1							
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1							
L3	323	323	335.5	348	360.5	373	385.5	398							
L4	312.5	312.5	325	337.5	350	362.5	375	387.5							
L5	17.5	12	12.5	13	13.5	14	14.5	15							
57							6	SMC							



* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	134.5	150.5	166.5	182.5	198.5	214.5	230.5	246.5	262.5	278.5	294.5	310.5	326.5	342.5	358.5
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398
L4	162.5	175	187.5	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5
L5	19.5	17.5	16	14	18.5	17	15	19.5	18	16	14.5	19	17	15.5	20
L n	17	18	19	20	21	22	23	24							
L1	374.5	390.5	406.5	422.5	438.5	454.5	470.5	486.5							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5							
L3	410.5	423	435.5	460.5	473	485.5	510.5	523							
L4	400	412.5	425	450	462.5	475	500	512.5							
L5	18	16.5	14.5	19	17.5	15.5	20	18.5	-						
			•	÷			_	•	-						FO

Electrical Wiring Specifications



* For negative common specification, a valve for negative common or a valve without polarity should be used.

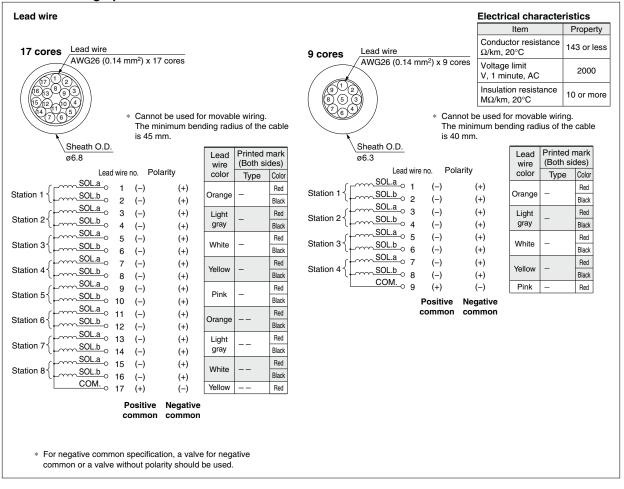
Specified Layout

Mixed wiring of single and double wiring can be specified on the manifold specification. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 32 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

Item	Property
Conductor resistance Ω/km, 20°C	143 or less
Voltage limit V, 1 minute, AC	2000
Insulation resistance MΩ/km, 20°C	10 or more

 Cannot be used for movable wiring. The minimum bending radius of the cable is 55 mm.

Electrical Wiring Specifications



Plug-in Connector Connecting Base

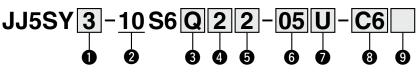
EX600

Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



Series

-	
1	JSY1000
3	JSY3000
5	JSY5000

2 Туре

10 Side ported

3 SI unit

0	Without SI unit						
Q	Q DeviceNet [™] (Version A)						
N	N PROFIBUS DP (Version A)						
V CC-Link							
ZE EtherNet/IP™ (1 port)							
EA	EtherNet/IP™ (2 ports)						
D	EtherCAT						
F	PROFINET						
WE	EtherNet/IP [™] compatible wireless master*1						
WF	PROFINET compatible wireless master*1						
WS	Wireless slave*1						

*1 The wireless system is suitable for use only in a country where it is in accordance with the Radio Act and regulations of that country.

* I/O unit cannot be mounted without SI unit.

* Valve plate which connects manifold and SI unit is included, but it is not mounted to a valve without SI unit. Refer to the EX600 (page 101) for mounting.

P, E port entry, SUP/EXH block assembly

P, E port entry	Internal pilot	Internal pilot, Built-in silencer
U side (2 to 10 stations)	U	C
D side (2 to 10 stations)	D	E
Both sides (2 to 24 stations)	В	F

* 3/5(E) port is plugged for the built-in silencer type.

* When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.

The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

3 A, B port size (Metric/One-touch fitting)

Symbol		A, B port	JSY1000	JSY3000	JSY5000		
C2		ø2	•	—	—		
C4		ø4	•	—	—		
C6	Ę	ø6	•	•	—		
C8	aigl	ø8	_	•	—		
C10	Str	ŝ	ø10	—	—	•	
C12		ø12	—	—	•	00	
CM*1		Straight port, mixed sizes		•	•	Oktor	
P, E port size (One-touch fittings)			ø8	ø10	ø12		

 *1 Indicate the sizes on the manifold specification sheet in the case of "CM."
 * The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

4 SI unit output polarity,

End plate type

SI unit output polarity	Power supply with M12 connector	Power supply with 7/8 inch connector		Power supply with M12 connector: IN/OUT pin arrangement 2		
Without SI unit		N	il			
SI unit positive common	2	3	6	8		
SI unit negative common	4	5	7	9		

 Ensure a match with the common specification of the valve to be used.

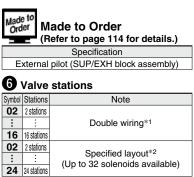
Without SI unit, the symbol is nil.

5 I/O unit stations

-	
Nil	None
1	1 station
:	
9	9 stations

* Without SI unit, the symbol is nil.

- * SI unit is not included in I/O unit stations.
- * When I/O unit is selected, it is shipped
- separately, and assembled by users. Refer to the attached operation manual for mounting.



- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not
- desired, order with a specified layout.
 *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet (Note that 2 constitution double)
- sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- This also includes the number of blanking plates.

9 Mounting and Option

-	<u> </u>
Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)

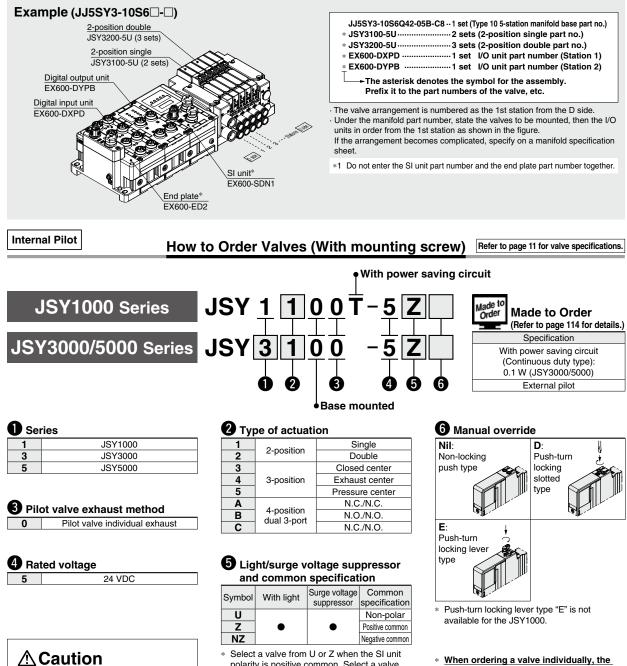
Refer to page 118 for the fixation of DIN rail mounting type manifold.
 DIN Bail Option

DIN Rall Option						
Nil	DIN rail mounting (With DIN rail)					
0	DIN rail mounting (Without DIN rail)					
3	For 3 stations					
:		Specify a longer rail than the standard length.				
24	For 24 stations	the standard length.				

 If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

For details about the EX600 Integrated Type (For Input/Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For details about part numbers of SI units to be mounted, refer to pages 101 and 102. (IP40 specifications may be required according to the I/O unit to be selected.) Please download the Operation Manual via SMC website.

How to Order Manifold Assembly



If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114. Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

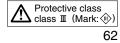
For the JSY1000 series only the power saving circuit is available.

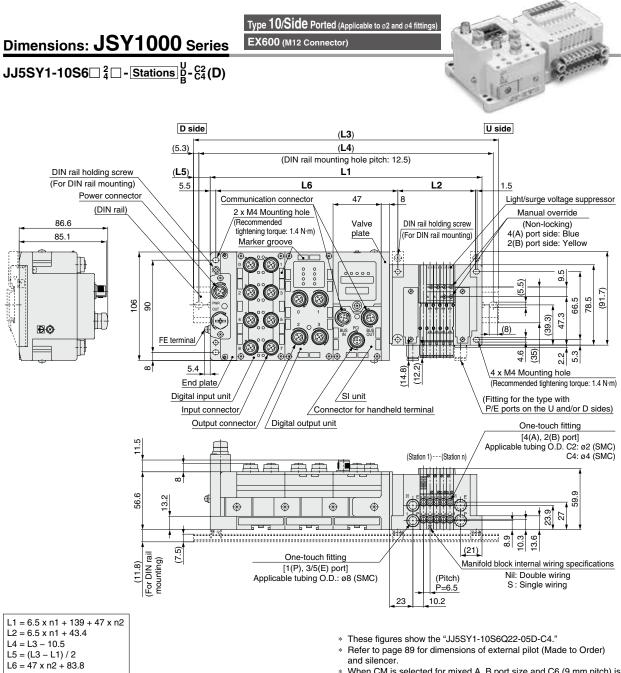
Select a valve from U or Z when the SI unit polarity is positive common. Select a valve from U or NZ when the SI unit output polarity is negative common.

- Only "Z" and "NZ" types are available for the JSY1000 series.
- * When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service.

Refer to page 107 for base gasket and mounting screw part numbers.





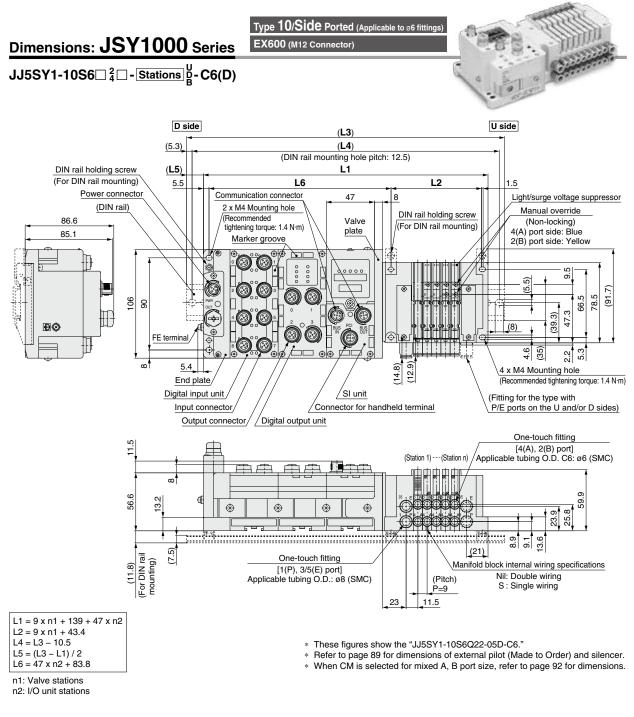
n1: Valve stations

n2: I/O unit stations

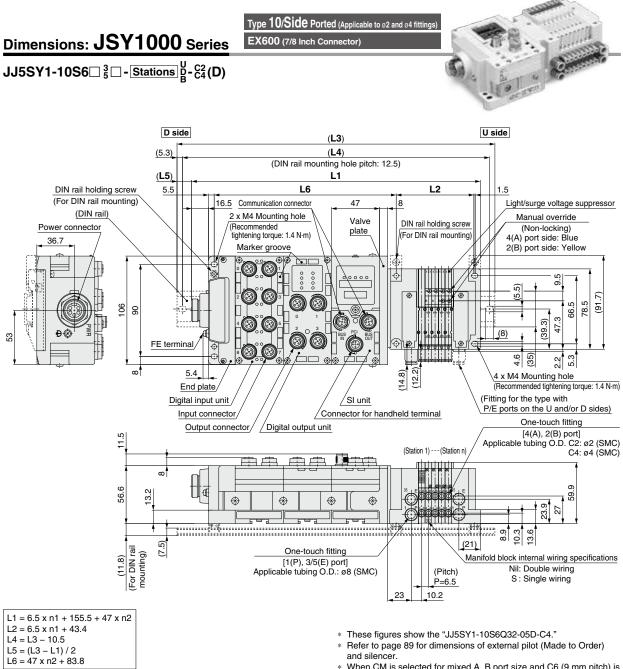
L3: DIN Rail Overall Length

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

				-ing c	-																		
Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	298	298	310.5	310.5	323	323
1	223	235.5	235.5	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373
2	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	385.5	385.5	398	398	410.5	410.5	423
3	323	323	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5
4	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	473	473	485.5	485.5	498	498	510.5	510.5
5	410.5	423	435.5	435.5	448	448	460.5	460.5	473	473	485.5	485.5	498	498	510.5	510.5	523	523	535.5	535.5	548	548	560.5
6	460.5	473	473	485.5	485.5	498	498	510.5	510.5	523	523	535.5	535.5	548	560.5	560.5	573	573	585.5	585.5	598	598	610.5
7	510.5	523	523	535.5	535.5	548	548	560.5	560.5	573	573	585.5	585.5	598	598	610.5	610.5	623	623	635.5	635.5	648	648
8	560.5	560.5	573	573	585.5	585.5	598	598	610.5	610.5	623	623	635.5	648	648	660.5	660.5	673	673	685.5	685.5	698	698
9	610.5	610.5	623	623	635.5	635.5	648	648	660.5	660.5	673	673	685.5	685.5	698	698	710.5	710.5	723	723	735.5	735.5	748



Valve stations I/O unit stations (n2)		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5
1	235.5	248	248	260.5	273	273	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5
2	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	448	448	460.5	473	473
3	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	510.5	523
4	373	385.5	398	398	410.5	423	423	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	560.5	560.5	573
5	423	435.5	435.5	448	460.5	460.5	473	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	598	598	610.5	623
6	473	473	485.5	498	510.5	510.5	523	535.5	535.5	548	560.5	573	573	585.5	598	598	610.5	623	635.5	635.5	648	660.5	660.5
7	510.5	523	535.5	548	548	560.5	573	573	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	673	673	685.5	698	710.5	710.5
8	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	748	748	760.5
9	610.5	623	623	635.5	648	660.5	660.5	673	685.5	685.5	698	710.5	723	723	735.5	748	748	760.5	773	785.5	785.5	798	810.5



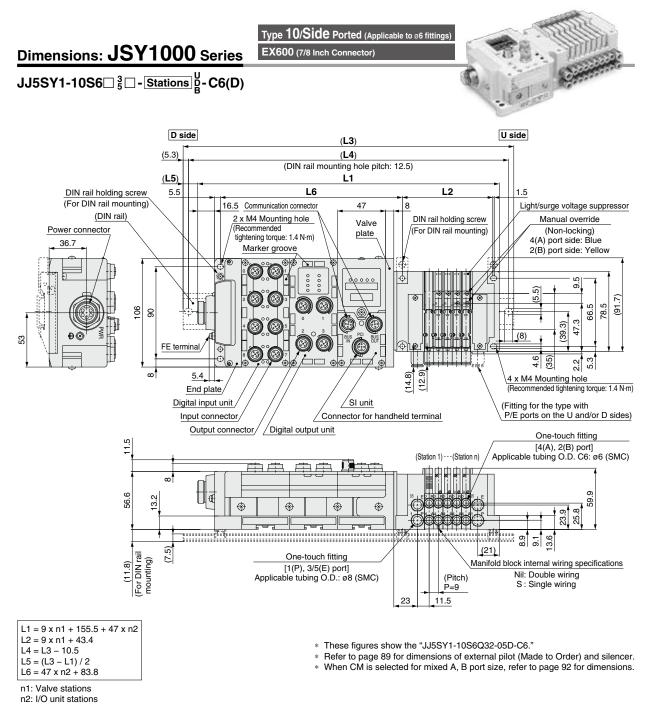
n1: Valve stations

n2: I/O unit stations

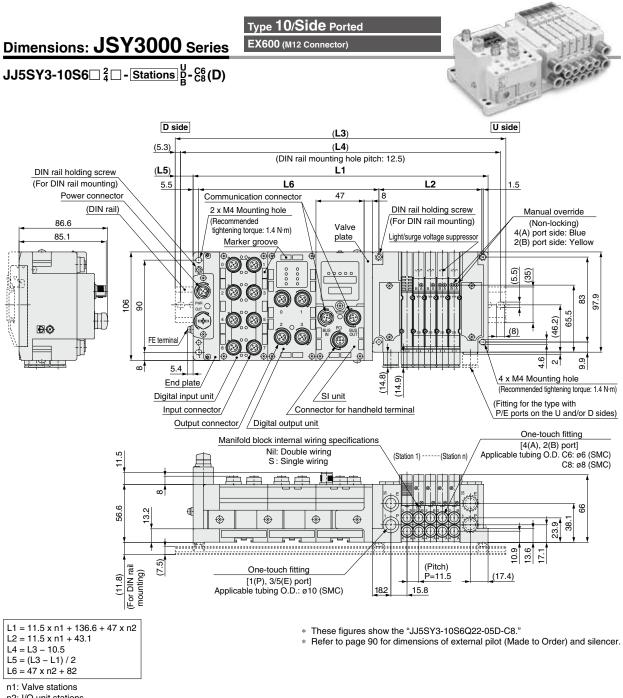
L3: DIN Rail Overall Length

When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

Valve stations I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5
1	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5
2	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5
3	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	473	485.5
4	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	473	485.5	485.5	498	498	510.5	510.5	523	523
5	435.5	435.5	448	448	460.5	460.5	473	473	485.5	485.5	498	510.5	510.5	523	523	535.5	535.5	548	548	560.5	560.5	573	573
6	485.5	485.5	498	498	510.5	510.5	523	523	535.5	535.5	548	548	560.5	560.5	573	573	585.5	585.5	598	598	610.5	610.5	623
7	523	535.5	535.5	548	548	560.5	560.5	573	573	585.5	598	598	610.5	610.5	623	623	635.5	635.5	648	648	660.5	660.5	673
8	573	585.5	585.5	598	598	610.5	610.5	623	623	635.5	635.5	648	648	660.5	660.5	673	673	685.5	685.5	698	698	710.5	723
9	623	623	635.5	635.5	648	648	660.5	660.5	673	685.5	685.5	698	698	710.5	710.5	723	723	735.5	735.5	748	748	760.5	760.5



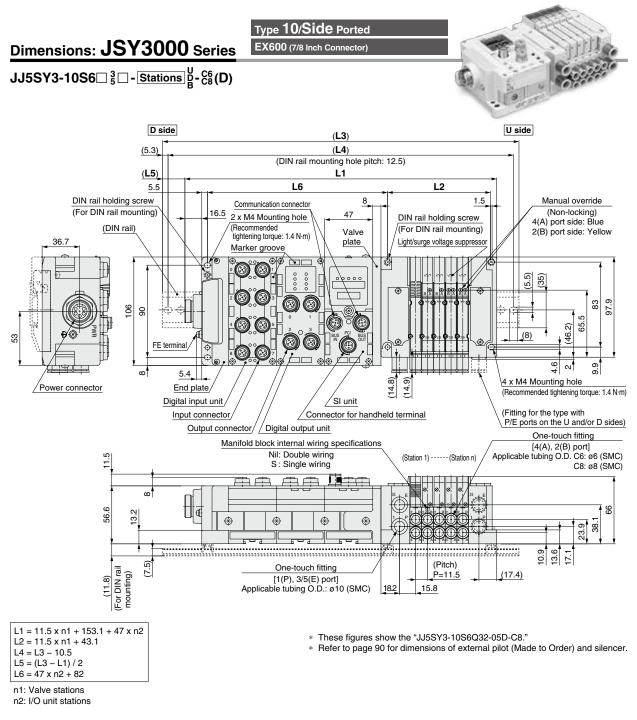
Valve stations I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	398	398
1	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	398	410.5	423	435.5	435.5	448
2	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	473	485.5	498
3	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	448	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5	548
4	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	548	560.5	573	585.5	585.5
5	435.5	448	460.5	460.5	473	485.5	498	498	510.5	523	523	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	623	623	635.5
6	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	598	598	610.5	623	623	635.5	648	660.5	660.5	673	685.5
7	535.5	535.5	548	560.5	573	573	585.5	598	598	610.5	623	635.5	635.5	648	660.5	673	673	685.5	698	698	710.5	723	735.5
8	573	585.5	598	610.5	610.5	623	635.5	648	648	660.5	673	673	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	773	773
9	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	748	748	760.5	773	773	785.5	798	810.5	810.5	823



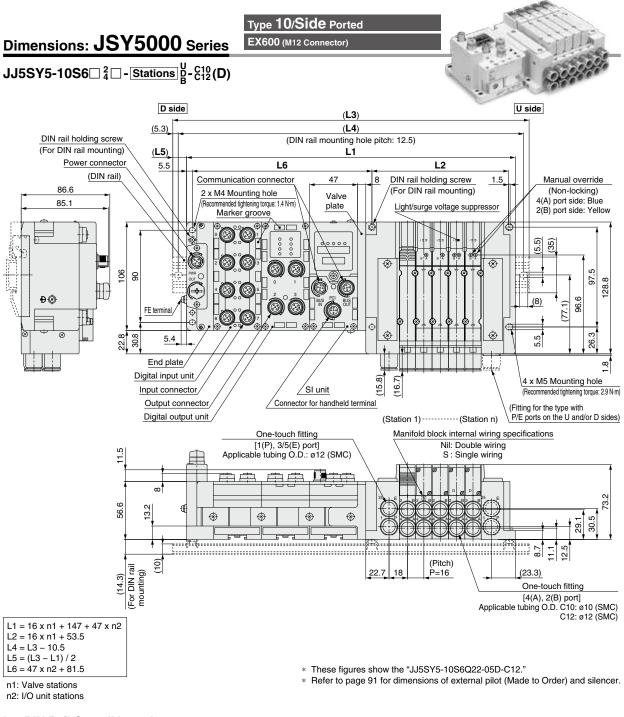
n2: I/O unit stations

Valve stations I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448
1	235.5	248	260.5	273	285.5	298	310.5	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5
2	285.5	298	310.5	323	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	473	485.5	498	510.5	523	535.5
3	335.5	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	485.5	498	510.5	523	535.5	548	560.5	573	585.5
4	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5
5	423	435.5	448	460.5	473	485.5	498	510.5	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	648	660.5	673
6	473	485.5	498	510.5	523	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	660.5	673	685.5	698	710.5	723
7	523	535.5	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	673	685.5	698	710.5	723	735.5	748	760.5	773
8	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823
9	610.5	623	635.5	648	660.5	673	685.5	698	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823	835.5	848	848	860.5

SMC

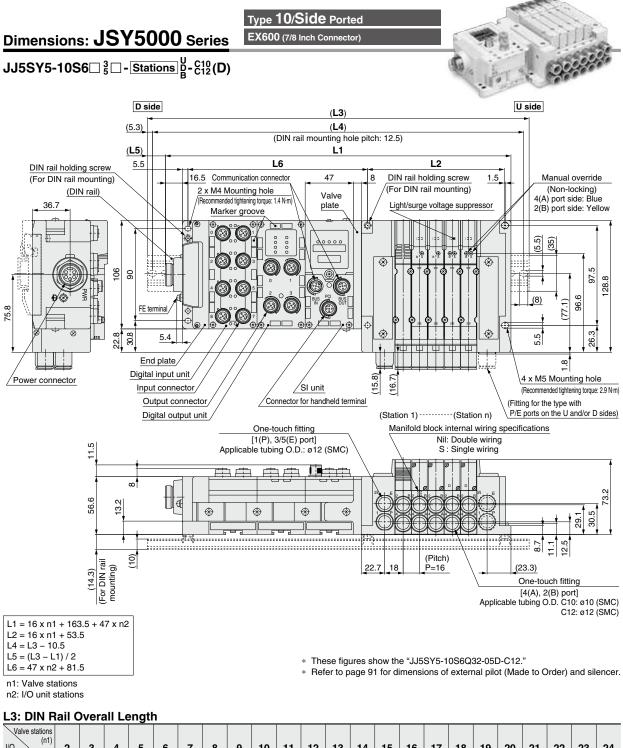


Valve stations I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	423	435.5	448	460.5	473
1	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	435.5	448	460.5	473	485.5	498	510.5	523
2	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573
3	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	610.5
4	410.5	423	435.5	448	460.5	473	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	623	635.5	648	660.5
5	460.5	473	485.5	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	635.5	648	660.5	673	685.5	698	710.5
6	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5
7	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	798
8	598	610.5	623	635.5	648	660.5	673	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	810.5	823	835.5	848
9	648	660.5	673	685.5	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823	823	835.5	848	860.5	873	885.5	898



Valve stations I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5
1	260.5	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	585.5	610.5
2	298	323	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5
3	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698
4	398	410.5	423	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	710.5	735.5	748
5	448	460.5	473	485.5	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	785.5	798
6	485.5	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848
7	535.5	548	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5
8	585.5	598	610.5	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	910.5	923	935.5
9	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	785.5	810.5	823	835.5	860.5	873	885.5	898	923	935.5	948	973	985.5

SMC



I/O unit	alve stations (n1) ons (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	0	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573
	1	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	598	610.5	623
	2	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5	673
	3	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	723
	4	410.5	423	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	723	735.5	748	760.5
	5	460.5	473	498	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	785.5	798	810.5
	6	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848	860.5
	7	548	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848	860.5	873	885.5	910.5
	8	598	623	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	910.5	923	935.5	948
	9	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	898	923	935.5	948	973	985.5	_

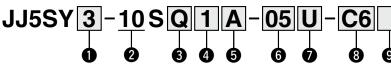
Plug-in Connector Connecting Base

Type 10 ide Ported

JSY1000/3000/5000 Series RoHS

Internal Pilot

How to Order Manifolds



2 Туре

10

Nil

1

8

EX250

Series

1	JSY1000
3	JSY3000
5	JSY5000

BSI unit

0		Withou	t SI unit									
Q	Device	Net™ (N	egative common)									
N	PROFIBUS DP (Negative common)											
V	CC-Link (Positive common)											
TA	10 1-1-1		8 in/8 out, 31 slave modes									
TB	AS-Interface (Negative	common type	4 in/4 out, 31 slave modes									
ТС	common)	1 common	8 in/8 out, 31 slave modes									
TD		type	4 in/4 out, 31 slave modes									
Y	CANo	pen (Ne	gative common)									
ZE	EtherNe	et/IP™ (N	legative common)									

* Ensure a match with the common specification of the valve to be used.

- Input block cannot be mounted without SI unit.
- The supply current from the SI unit of AS-Interface applicable 1 power supply system specification to the input block and valve is limited.

P, E port entry, SUP/EXH block assembly

P, E port entry	Internal pilot	Internal pilot, Built-in silencer
U side (2 to 10 stations)	U	С
D side (2 to 10 stations)	D	E
Both sides (2 to 24 stations)	В	F

* 3/5(E) port is plugged for the built-in silencer type.

- * When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.
- * The external pilot specification should be ordered as Made to Order. For details, refer to page 114.

E	JA,	В	port s	size	(Me	tric/One-	touch fitt	ting)
						101//000	101/0000	101/201

Symbol	A, B port		JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	<i>(</i>)
C4		ø4	•	—	—	
C6	Ħ	ø6	•	•	—	
C8	Straight	ø8	_	•	—	
C10	ß	ø10	—	—	•	
C12		ø12	—	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Of the
	P, E port size (One-touch fittings)		ø8	ø10	ø12	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

For details about the EX250 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 103. Please download the Operation Manual via SMC website.

Made to Order (Refer to page 114 for details.)							
	Specification						
E	External pilot (SUP/EXH block assembly)						
6 Valve stations							
Symbol	Stations	Note					
02	2 stations						
0-	2 314110113						
:	2 310113	Double wiring*1					
16	16 stations	Double wiring*1					

24 24 station: *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not

: .

Specified layout*2

(Up to 32 solenoids available)

desired, order with a specified layout. *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.) When determining the number of valve stations, note that the maximum number of solenoids for the AS-Interface applicable SI

unit specification is as follows.

· 8 in/8 out specification: Max. 8 solenoids 4 in/4 out specification: Max. 4 solenoids

- This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail
- mounting type manifold. DIN rail mounting (DD) is not available for
- the product without the SI unit (S0).

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)		
0	DIN rail mounting (Without DIN rail)		
3	For 3 stations		
:	÷	Specify a longer rail than the standard length.	
24	For 24 stations		

* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

8 stations Without SI unit, the symbol is nil.

Side ported

None

1 station

The maximum number of stations is limited for the AS-Interface applicable SI unit.

5 Input block type

Input block stations

	PNP sensor input	NPN sensor input
Without input block	Nil	
M12, 2 inputs	Α	D
M12, 4 inputs	В	E
M8, 4 inputs	С	F

* Without SI unit, the symbol is nil.

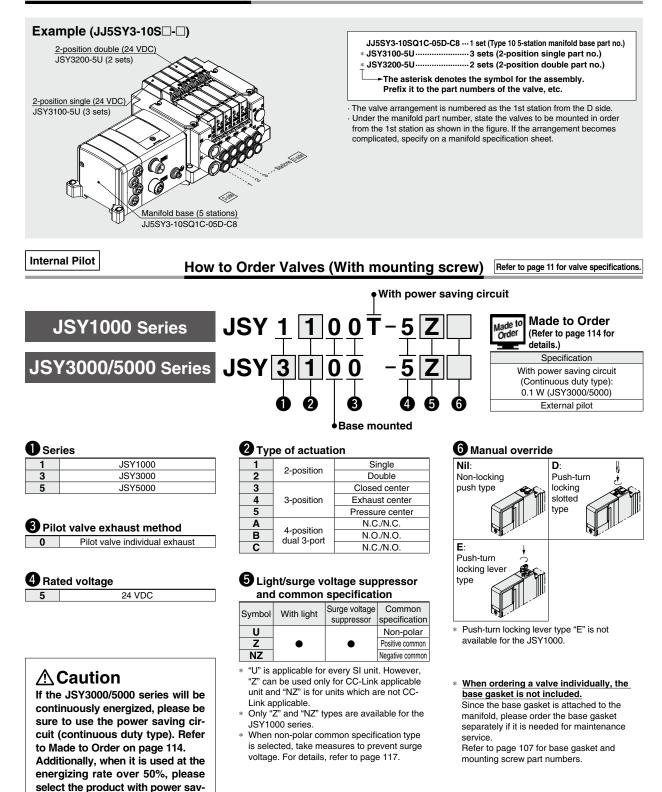
71

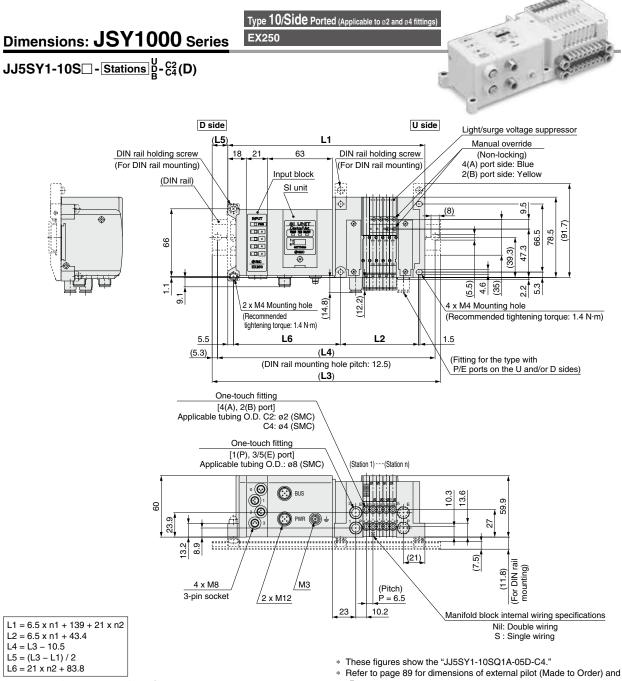
How to Order Manifold Assembly

ing circuit.

For the JSY1000 series only the

power saving circuit is available.





n1: Number of valve stations of the JSY1000 n2: Input block stations

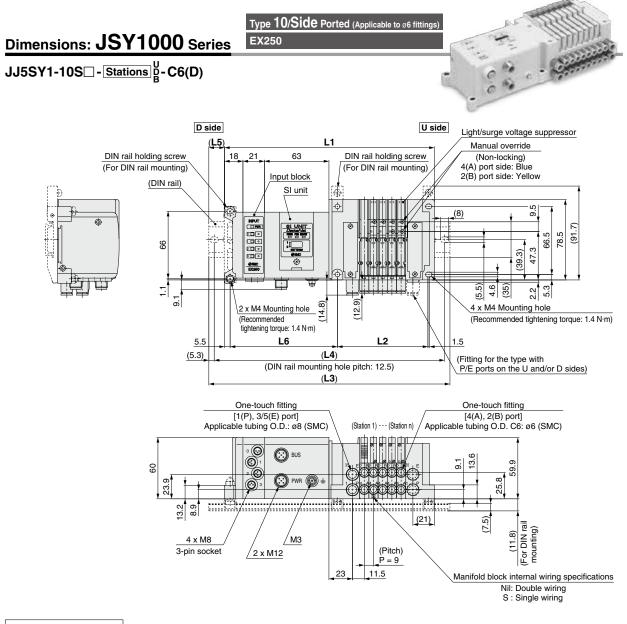
 Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L3:	DIN	Rail	Over	all Le	engtl	h
				1		

Valve stations (n1) U/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	298	298	310.5	310.5	323	323
1	198	210.5	210.5	223	223	235.5	235.5	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348
2	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5
3	248	248	260.5	260.5	273	273	285.5	285.5	298	298	310.5	310.5	323	323	335.5	348	348	360.5	360.5	373	373	385.5	385.5
4	260.5	273	273	285.5	285.5	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5
5	285.5	298	298	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	435.5
6	310.5	310.5	323	323	335.5	335.5	348	348	360.5	360.5	373	373	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448
7	323	335.5	335.5	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473
8	348	360.5	360.5	373	373	385.5	385.5	398	398	410.5	410.5	423	423	435.5	435.5	448	448	460.5	460.5	473	485.5	485.5	498

Connector Connecting Base JSY1000/3000/5000 Series



L1 = 9 x n1 + 139 + 21 x n2 $L2 = 9 \times n1 + 43.4$ L4 = L3 - 10.5L5 = (L3 - L1) / 2

L6 = 21 x n2 + 83.8

* These figures show the "JJ5SY1-10SQ1A-05D-C6."

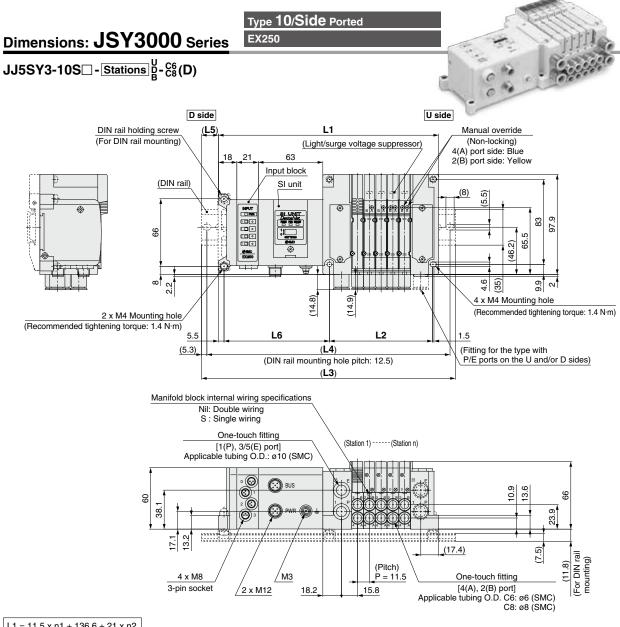
* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

n1: Number of valve stations of the JSY1000 n2: Input block stations

L3: DIN Rail Overall Length

Valve stations (n1) unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5
1	210.5	210.5	223	235.5	248	248	260.5	273	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5
2	223	235.5	248	260.5	260.5	273	285.5	285.5	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423
3	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	398	398	410.5	423	435.5	435.5	448
4	273	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473
5	285.5	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5
6	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5	398	398	410.5	423	435.5	435.5	448	460.5	460.5	473	485.5	498	498	510.5
7	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5
8	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	510.5	523	535.5	548	548



 $\begin{array}{l} L1 = 11.5 \ x \ n1 + 136.6 + 21 \ x \ n2 \\ L2 = 11.5 \ x \ n1 + 43.1 \\ L4 = L3 - 10.5 \\ L5 = (L3 - L1) \ / 2 \\ L6 = 21 \ x \ n2 + 82 \end{array}$

* These figures show the "JJ5SY3-10SQ1A-05D-C8."

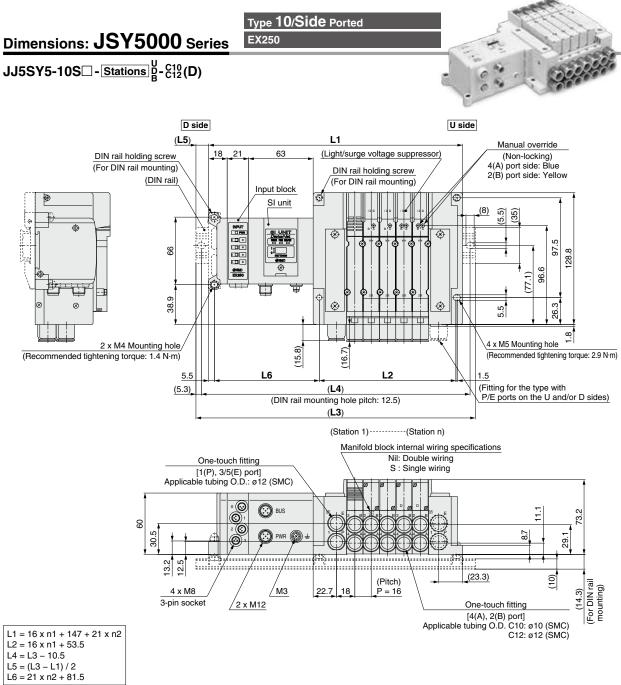
* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

n1: Number of valve stations of the JSY3000 n2: Input block stations

L3: DIN Rail Overall Length

Valve stations (n1) U/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448
1	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	423	435.5	448	460.5
2	235.5	248	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	398	410.5	423	435.5	448	460.5	473	485.5
3	248	260.5	273	285.5	298	310.5	323	335.5	348	360.5	373	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5
4	273	285.5	298	310.5	323	335.5	348	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	485.5	498	510.5	523
5	298	310.5	323	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5	498	510.5	523	535.5	548
6	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573
7	335.5	348	360.5	373	385.5	398	410.5	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	560.5	573	585.5
8	360.5	373	385.5	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	535.5	548	560.5	573	585.5	598	610.5

Connector Connecting Base JSY1000/3000/5000 Series



n1: Number of valve stations of the JSY5000 n2: Input block stations

* These figures show the "JJ5SY5-10SQ1A-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L3: DIN F	Rail C)vera	all Le	engtl	h																		
Valve stations (n1) U/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5
1	235.5	248	260.5	273	298	310.5	323	335.5	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498	523	535.5	548	560.5	585.5
2	248	260.5	285.5	298	310.5	335.5	348	360.5	373	398	410.5	423	448	460.5	473	485.5	510.5	523	535.5	560.5	573	585.5	598
3	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	585.5	610.5	623
4	298	310.5	323	335.5	360.5	373	385.5	410.5	423	435.5	448	473	485.5	498	510.5	535.5	548	560.5	585.5	598	610.5	623	648
5	310.5	335.5	348	360.5	373	398	410.5	423	435.5	460.5	473	485.5	510.5	523	535.5	548	573	585.5	598	623	635.5	648	660.5
6	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5	673	685.5
7	360.5	373	385.5	398	423	435.5	448	473	485.5	498	510.5	535.5	548	560.5	585.5	598	610.5	623	648	660.5	673	685.5	710.5
8	373	398	410.5	423	435.5	460.5	473	485.5	510.5	523	535.5	548	573	585.5	598	610.5	635.5	648	660.5	685.5	698	710.5	723

Plug-in Connector Connecting Base

Type 10 ide Ported

JSY1000/3000/5000 Series RoHS

Internal Pilot

How to Order Manifolds

2 Type 10

> U D

в

Nil

S

type.

to page 114.

5 P, E port entry

6 SUP/EXH block assembly

with water or other liquids.

C6

Side ported

U side (2 to 10 stations)

D side (2 to 10 stations)

Both sides (2 to 24 stations)

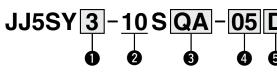
Internal pilot

Internal pilot, Built-in silencer 3/5(E) port is plugged for the built-in silencer

When the built-in silencer type is used, keep the exhaust port from coming in direct contact

The external pilot specification should be

ordered as Made to Order. For details, refer



EX260

Series

-	
1	JSY1000
3	JSY3000
5	JSY5000

SI unit (Output polarity, Protocol, Number of outputs, Communication connector)

001111		miccion		
Symbol (Ou	tput polarity)		Number	Communicatio
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	connector
0	*1	Without	SI unit	
QA	QAN	DeviceNet™	32	M12
QB	QBN	Devicemet	16	
NA	NAN		32	M12
NB	NBN	PROFIBUS	16	
NC	NCN	DP	32	*3 D-sub
ND	NDN		16	D-Sub
VA	VAN	CC-Link	32	M12
VB	VBN	CC-LINK	16	
DA	DAN	EtherCAT	32	M12
DB	DBN	EllierCAT	16	
FA	FAN	PROFINET	32	M12
FB	FBN	FROFINET	16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN	Emernet/IP	16	
*2	GAN	Ethernet	32	M12
*2	GBN	POWERLINK	16	

Without SI unit, the output polarity is decided *1 by the SI unit used. Ensure a match with the common

specification of the valves to be used.
*2 Positive common (NPN) type is not available.
*3 IP40 for the D-sub applicable

communication connector specification. DIN rail cannot be mounted without SI unit.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	-
C4		ø4	•	_	—	
C6	Ħ	ø6	•	•	—	
C8	Straight	ø8	—	•	—	
C10	5	ø10	—	—	•	
C12		ø12	—	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Oktober
		port size uch fittings)	ø8	ø10	ø12	

*1 Indicate the sizes on the manifold specification sheet in the case of "CM." * The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected,

the manifold pitch is different depending on the selected fitting.

For details about the EX260 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 104. Please download the Operation Manual via SMC website.

Made		ade to Order efer to page 114 for details.
		Specification
E	xternal	pilot (SUP/EXH block assembly
-		stations of the 32-output SI unit
Symbol	Stations	Note
02	2 stations	

02	2 Stations	
:	1	Double wiring*1
16	16 stations	
02	2 stations	Creatified loweut*2
:	1	Specified layout*2 (Up to 32 solenoids available)
24	24 stations	(Op to 32 soleholds available)

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
1	1	Double wiring*1
08	8 stations	
02	2 stations	Creatified laws ut*2
:	:	Specified layout*2 (Up to 16 solenoids available)
16	16 stations	(Op to 10 solenoids available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- * This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the lavout is specified, indicate it on the manifold specification sheet.

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- \ast Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 118 for the fixation of DIN rail mounting type manifold.
- DIN rail mounting (DD) is not available for the product without the SI unit (S0).

DIN Rail Option

Nil	DIN ra	il mounting (With DIN rail)								
0	DIN rail	mounting (Without DIN rail)								
3	For 3 stations	ns Specify a longer rail than								
1	÷	Specify a longer rail than the standard length.								
24	For 24 stations	the standard length.								

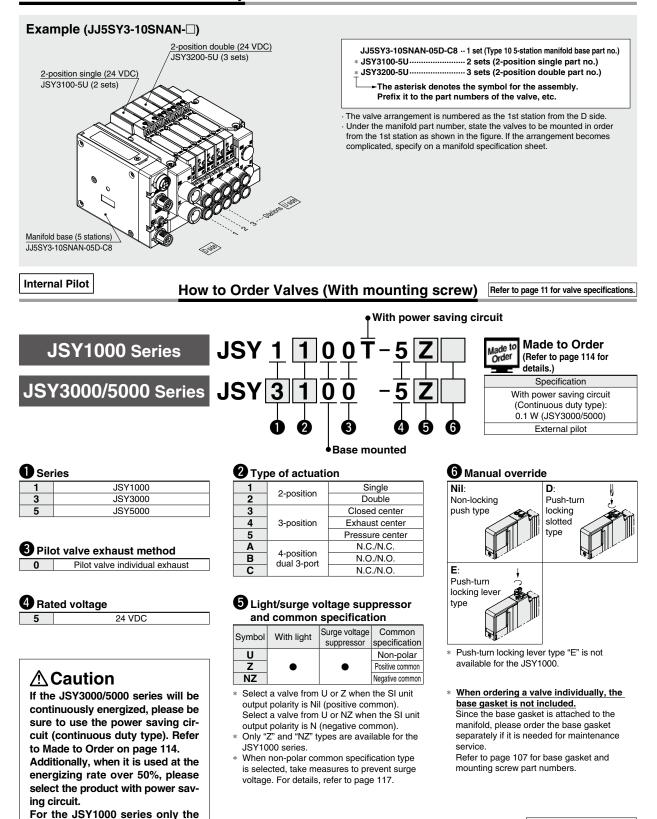
* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

77

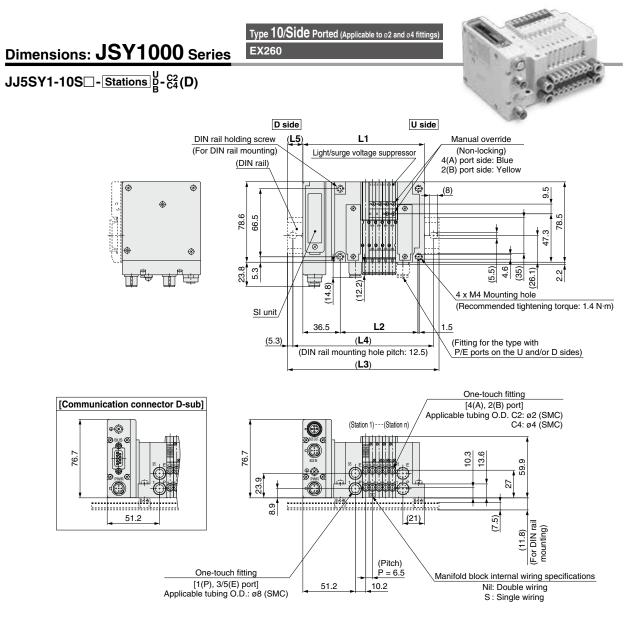
SMC

How to Order Manifold Assembly

power saving circuit is available.



SMC



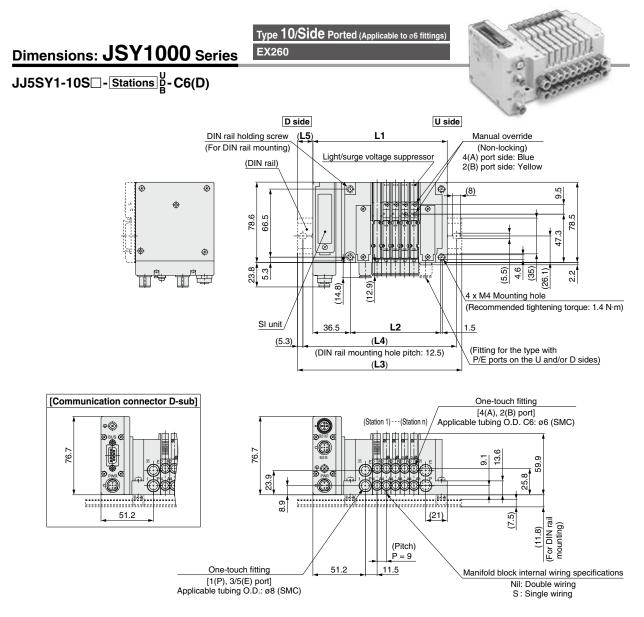
* These figures show the "JJ5SY1-10SQA-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	ension	S												r	n: Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	99.2	105.7	112.2	118.7	125.2	131.7	138.2	144.7	151.2	157.7	164.2	170.7	177.2	183.7	190.2
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	123	135.5	135.5	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	112.5	125	125	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	12	15	12	15	18	15	18	14	17	14	17	14	17	14	17
L n	17	18	19	20	21	22	23	24							
L1	196.7	203.2	209.7	216.2	222.7	229.2	235.7	242.2							
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4							
L3	223	235.5	235.5	248	248	260.5	260.5	273							
L4	212.5	225	225	237.5	237.5	250	250	262.5							
L5	13	16	13	16	13	16	13	16							
79 SMC								SMC	-						

Connector Connecting Base JSY1000/3000/5000 Series

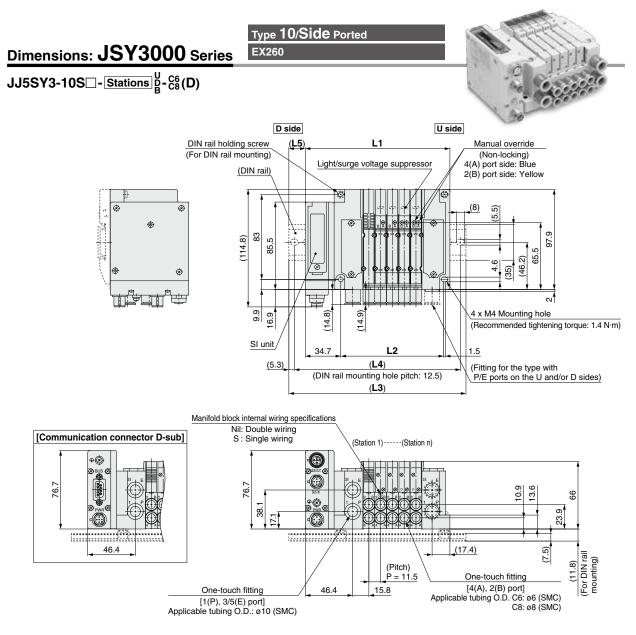


* These figures show the "JJ5SY1-10SQA-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dimensions														r	: Stations
) J	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	104.2	113.2	122.2	131.2	140.2	149.2	158.2	167.2	176.2	185.2	194.2	203.2	212.2	221.2	230.2
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	135.5	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5
L4	125	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250
L5	16	18	13	15	17	12	14	16	17	13	15	16	12	14	15
												·		·	
L n	17	18	19	20	21	22	23	24							
L1	239.2	248.2	257.2	266.2	275.2	248.2	293.2	302.2							
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4							
L3	273	273	285.5	298	310.5	310.5	323	335.5							
L4	262.5	262.5	275	287.5	300	300	312.5	325							
L5	17	13	14	16	18	13	15	17							

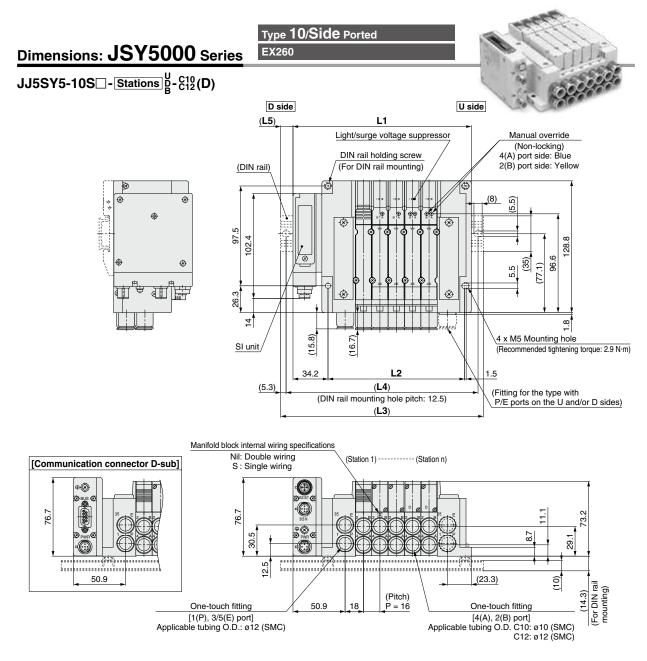


* These figures show the "JJ5SY3-10SQA-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	106.8	118.3	129.8	141.3	152.8	164.3	175.8	187.3	198.8	210.3	221.8	233.3	244.8	256.3	267.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	135.5	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	285.5	298
L4	125	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	275	287.5
L5	15	15	16	16	17	17	18	12	12	13	13	14	14	15	15
L	17	18	19	20	21	22	23	24							
L1	279.3	290.8	302.3	313.8	325.3	336.8	348.3	359.8							
L2	238.6	250.1	261.1	273.1	284.6	296.1	307.6	319.1							
L3	310.5	323	335.5	348	360.5	360.5	373	385.5							
L4	300	312.5	325	337.5	350	350	362.5	375							
L5	16	16	17	17	18	12	13	13							
81							9 9	SMC	-						

Engen Connector Connecting Base JSY1000/3000/5000 Series



* These figures show the "JJ5SY5-10SQA-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ensior	IS												r	: Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	126.2	142.2	158.2	174.2	190.2	206.2	222.2	238.2	254.2	270.2	286.2	302.2	318.2	334.2	350.2
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	185.5	198	223	235.5	248	273	285.5	298	310.5	335.5	348	360.5	385.5
L4	150	162.5	175	187.5	212.5	225	237.5	262.5	275	287.5	300	325	337.5	350	375
L5	17	16	14	12	17	15	13	18	16	14	12	17	15	13	18
L n	17	18	19	20	21	22	23	24							
L1	366.2	382.2	398.2	414.2	430.2	446.2	462.2	478.2							
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5							
L3	398	410.5	423	448	460.5	473	485.5	510.5							
L4	387.5	400	412.5	437.5	450	462.5	475	500							
L5	16	14	13	17	15	14	12	16	-						
						-						00			

Plug-in Connector Connecting Base

Type 10 ide Ported EX120

JSY1000/3000/5000 Series RoHS

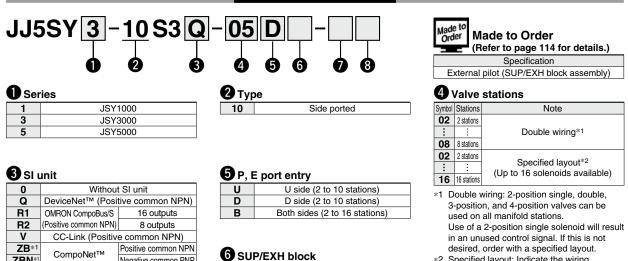
Internal Pilot

ZBN*

it separately

*1

How to Order Manifolds



Internal pilot

Internal pilot, Built-in silencer

3/5(E) port is plugged for the built-in silencer

ordered as Made to Order. For details, refer

The external pilot specification should be

- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double. 3-position, and 4-position valves cannot be used where single wiring has been specified.)
 - This also includes the number of blanking plates.
 - Since R2 type SI unit has 8 outputs, note that up to 8 solenoids can be accommodated.

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

The communication connector (for the

* Ensure a match with the common

specification of the valve to be used.

opposite side) is not provided. Please order

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	
C4		ø4	•	—	—	
C6	Ę	ø6	•	•	—	
C8	80 010 010		—	•	—	
C10	ŝ	ø10	—	—	•	
C12		ø12	_	—	•	00
CM *1	Straight port, mixed sizes		•	•	•	- Oktober
		port size uch fittings)	ø8	ø10	ø12	

Negative common PNP

Nil

s

type.

to page 114.

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- * Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 118 for the fixation of DIN rail mounting type manifold.

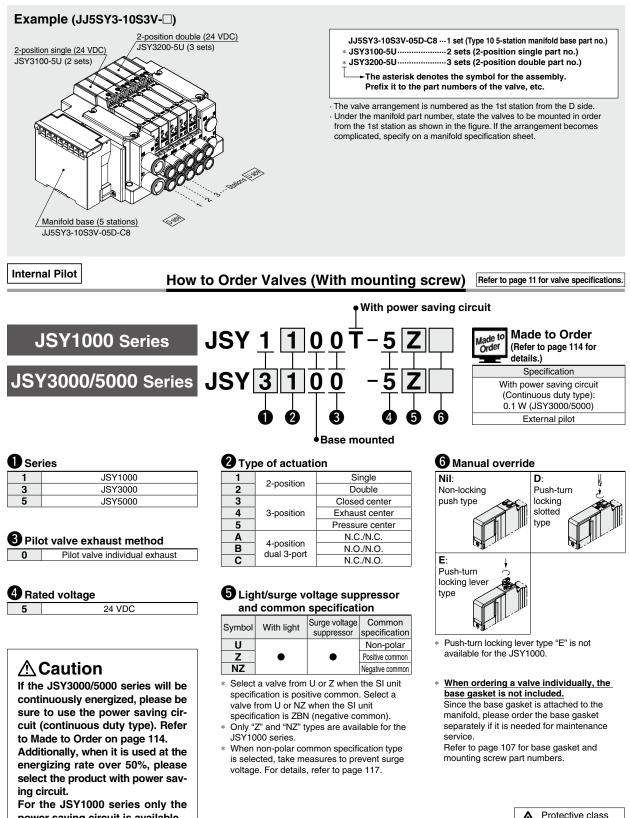
DIN Rail Option

Nil	DIN ra	il mounting (With DIN rail)									
0	DIN rail	mounting (Without DIN rail)									
3	For 3 stations	Specify a longer rail than									
:		Specify a longer rail that the standard length.									
16	For 16 stations	the standard length.									

If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

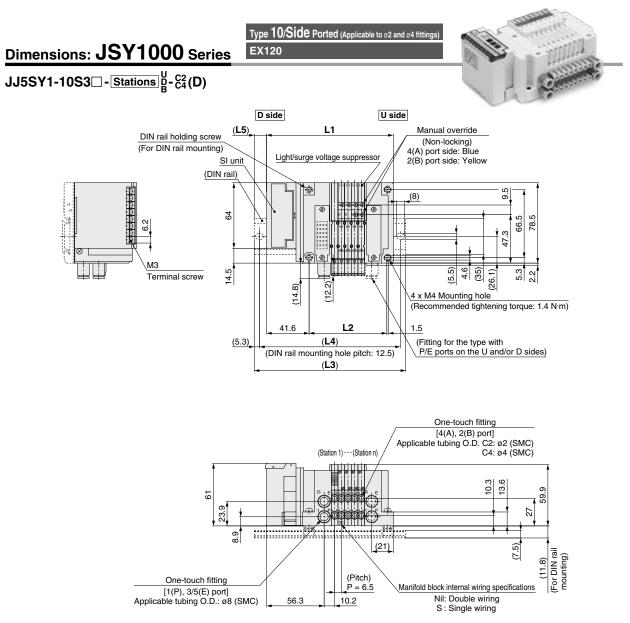
For details about the EX120 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For details about part numbers of SI units to be mounted, refer to page 105. Please download the Operation Manual via SMC website.

How to Order Manifold Assembly



power saving circuit is available.

Class II (Mark: ♠) 84



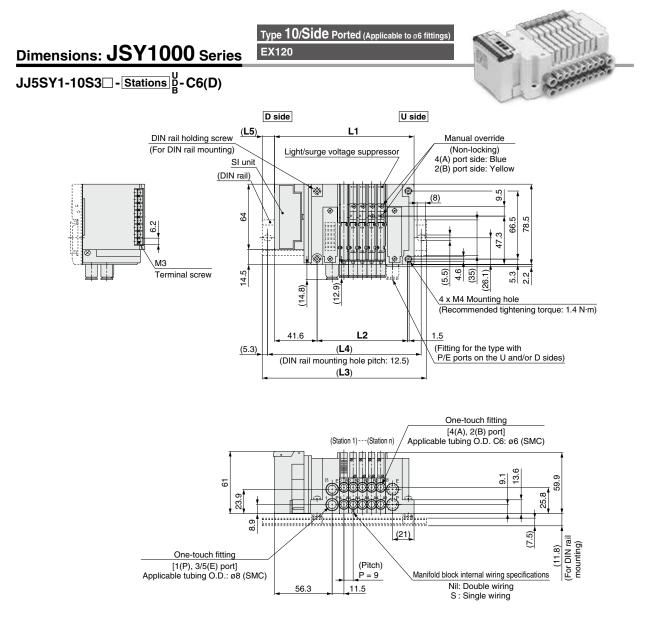
* These figures show the "JJ5SY1-10S3V-05D-C4."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Stations														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	104.3	110.8	117.3	123.8	130.3	136.8	143.3	149.8	156.3	162.8	169.3	175.8	182.3	188.8	195.3
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	198	198	210.5	210.5	223	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	187.5	187.5	200	200	212.5	212.5
L5	16	12	15	12	15	12	15	12	15	18	14	17	14	17	14

Connector Connecting Base JSY1000/3000/5000 Series

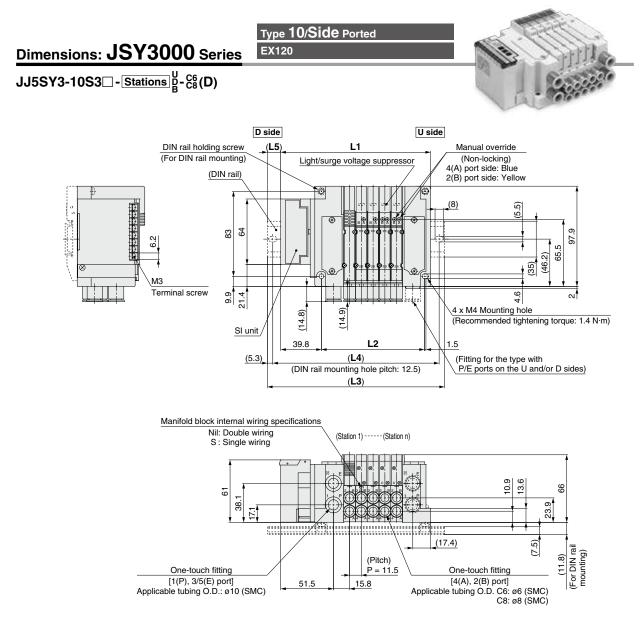


* These figures show the "JJ5SY1-10S3V-05D-C6."

* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dim	L: Dimensions n: Station														
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	109.3	118.3	127.3	136.3	145.3	154.3	163.3	172.3	181.3	190.3	199.3	208.3	217.3	226.3	235.3
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	135.5	148	160.5	160.5	173	185.5	198	198	210.5	223	223	235.5	248	260.5	260.5
L4	125	137.5	150	150	162.5	175	187.5	187.5	200	212.5	212.5	225	237.5	250	250
L5	13	15	17	12	14	16	17	13	15	16	12	14	15	17	13



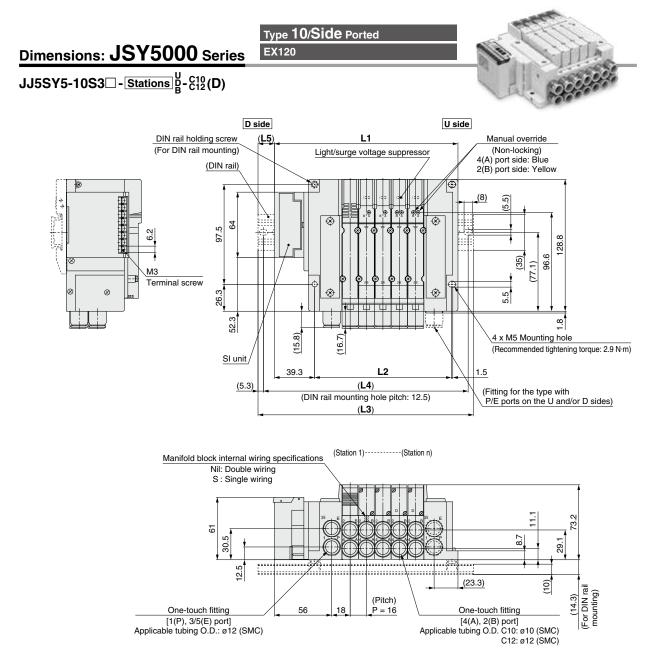
* These figures show the "JJ5SY3-10S3V-05D-C8."

* Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Station															: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	111.9	123.4	134.9	146.4	157.9	169.4	180.9	192.4	203.9	215.4	226.9	238.4	249.9	261.4	272.9
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5	298
L4	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5
L5	12	12	13	13	14	14	15	15	16	16	17	17	12	12	13

SMC

Connector Connecting Base JSY1000/3000/5000 Series



* These figures show the "JJ5SY5-10S3V-05D-C12."

* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	L: Dimensions n: Stations														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	131.3	147.3	163.3	179.3	195.3	211.3	227.3	243.3	259.3	275.3	291.3	307.3	323.3	339.3	355.3
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5
L4	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375
L5	15	13	17	16	14	12	17	15	13	18	16	14	12	17	15

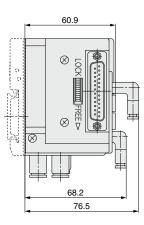
JSY1000/3000/5000 Series Common Dimensions

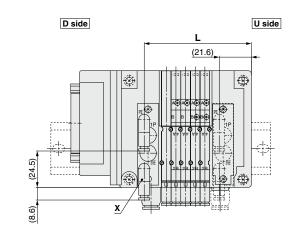
Dimensions: **JSY1000** Series

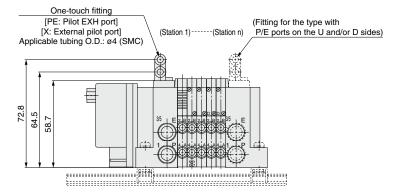
Type **10/Side** Ported External Pilot, Built-in Silencer

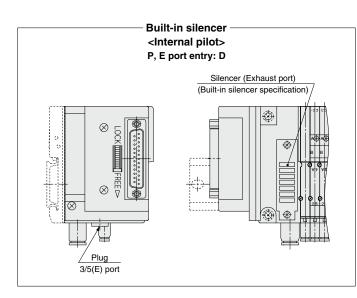
JJ5SY1-10 - Stations $\stackrel{U}{\stackrel{D}{\stackrel{}_{c_6}}}(S, R) - \stackrel{C_2^2}{\stackrel{C_6^2}{\stackrel{}_{c_6}}}(D)$

External pilot (Made to Order) P, E port entry: D









Calculation formula for L dimensions

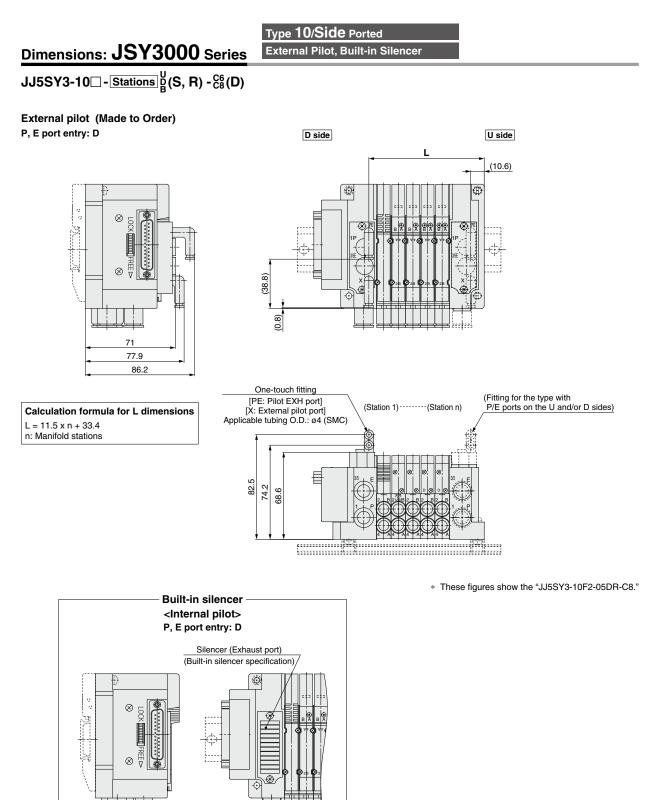
 $L = 6.5 \times n1 + 9 \times n2 + 39.6$

n1: Number of 6.5 mm pitch manifold block stations (Applicable fitting: ø2, ø4)

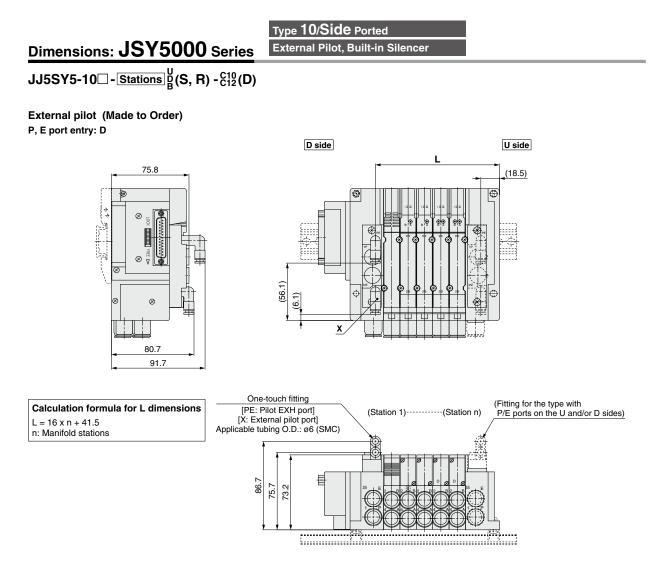
n2: Number of 9 mm pitch manifold block stations (Applicable fitting: ø6)

* These figures show the "JJ5SY1-10F2-05DR-C4."

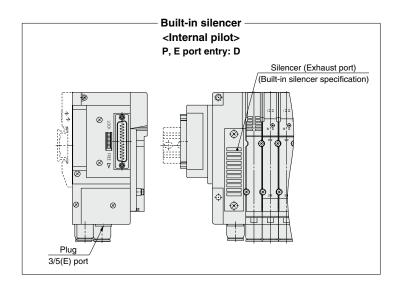
Common Dimensions JSY1000/3000/5000 Series



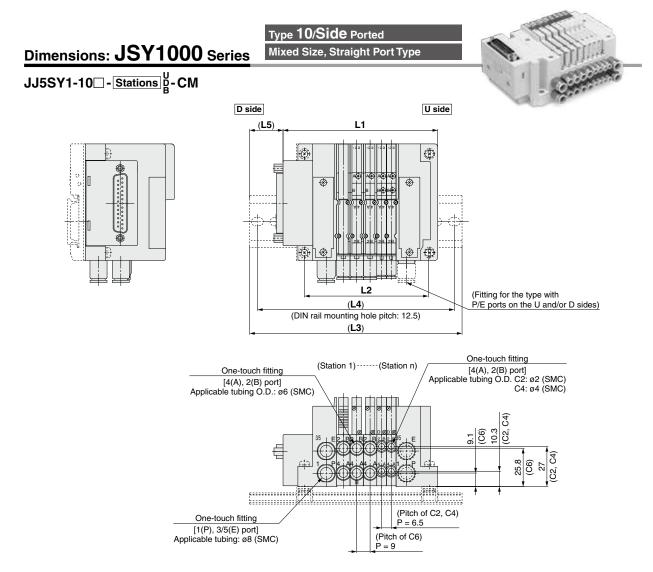
Plug 3/5(E) port



* These figures show the "JJ5SY5-10F2-05DR-C12."



Connector Connecting Base JSY1000/3000/5000 Series



* Refer to page 89 for dimensions of external pilot and built-in silencer.

* Refer to pages 63 to 66, 73, and 74 for dimensions when L6, b, and d are used for the calculation formula.

* Refer to pages below for dimensions that are not specified in each wiring specification.

	D-sub connector (IP40/Connector entry direction adjustable) D-sub connector (IP20/Compact type) Flat ribbon cable (IP40/Connector entry direction adjustable) Flat ribbon cable (IP20/Compact type) Spring type terminal block box Terminal block box Lead wire	: pp. : pp. : pp. : pp. : pp. : pp.	27, 30, 34, 43, 47, 55,	28 31 35 44 48 56	
	EX600 EX250 EX260 EX120	: pp. : pp. : pp. : pp.	73, 79,	74 80	
(Calculation formula for dimensions				F

$\begin{array}{l} L1 = 6.5 \ x \ n1 + 9 \ x \ n2 + a + b \ x \ n3 \\ L2 = 6.5 \ x \ n1 + 9 \ x \ n2 + 43.4 \\ M = \{(L1 + c) \ / \ 12.5\} + 1 \ \ Decimal \ fractions \ are \ truncated. \\ L3 = 12.5 \ x \ M + 23 \end{array}$

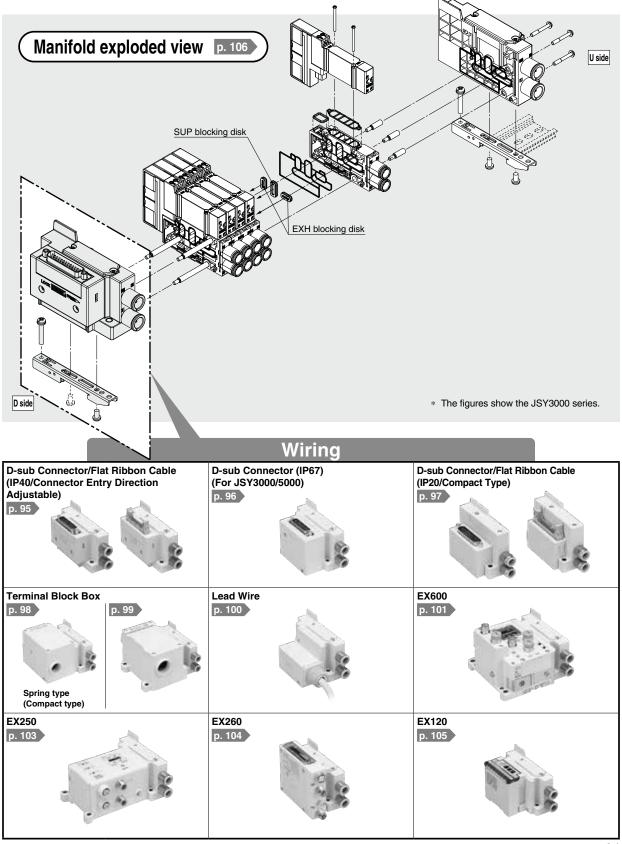
L4 = L3 - 10.5L5 = (L3 - L1 + c) / 2L6 = b x n3 + d

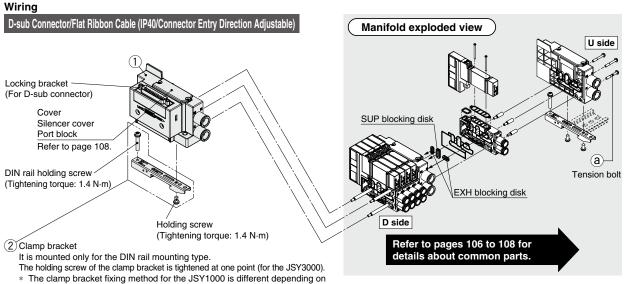
•	Coefficient	а	b	с	d
,	D-sub connector (IP20/Compact type)	64.1	—	6.1	—
,	D-sub connector/Flat ribbon cable (IP40/Connector entry direction adjustable)	83	—	6.1	—
	Flat ribbon cable (IP20/Compact type)	59.1	—	11.2	—
	Spring type terminal block box	125.5	—	_	—
	Terminal block box	146.8	—	—	—
	Lead wire	94.5	_	—	_
	Serial transmission: EX600 (M12 connector)	139	47	—	83.8
	Serial transmission: EX600 (7/8 inch connector)	155.5	47	—	83.8
	Serial transmission: EX250	139	21	—	83.8
4)	Serial transmission: EX260	86.2	—	—	—
4)	Serial transmission: EX120	91.3	_	_	_

n1: Number of 6.5 mm pitch manifold block stations (Applicable fittings: ø2, ø4) n2: Number of 9 mm pitch manifold block stations (Applicable fittings: ø6) n3: Number of I/O units or input block stations

* FW [D-sub connector (IP67)] is not available for the JSY1000.

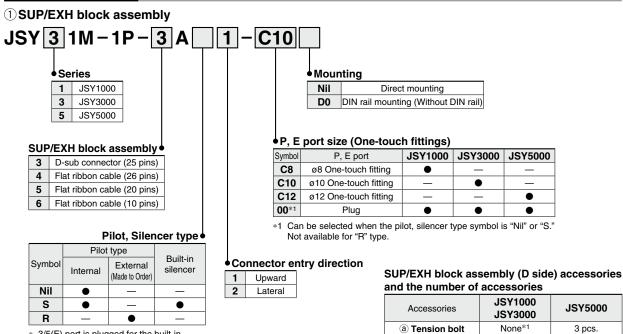
JSY1000/3000/5000 Series Type 10 Connector Connecting Base Manifold Exploded View





wiring. Refer to page 119.

Manifold Parts Nos.



* 3/5(E) port is plugged for the built-in silencer type.

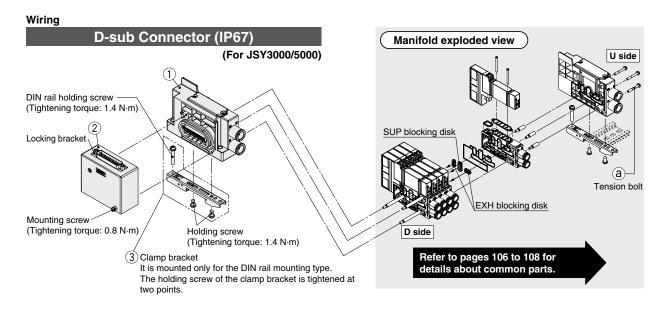
*1 Since the nuts are embedded in the SUP/EXH block.

2 Clamp bracket

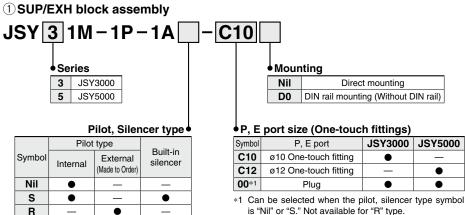
Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.

Connector Connecting Base Manifold Exploded View **JSY3000/5000 Series**



Manifold Parts Nos.



is "Nil" or "S." Not available for "R" type.

SUP/EXH block assembly (D side) accessories and the number of accessories

Accessories	JSY3000	JSY5000
(a) Tension bolt	None*1	3 pcs.

*1 Since the nuts are embedded in the SUP/EXH block.

2 D-sub connector block <for IP67>

3/5(E) port is plugged for the built-in

silencer type.

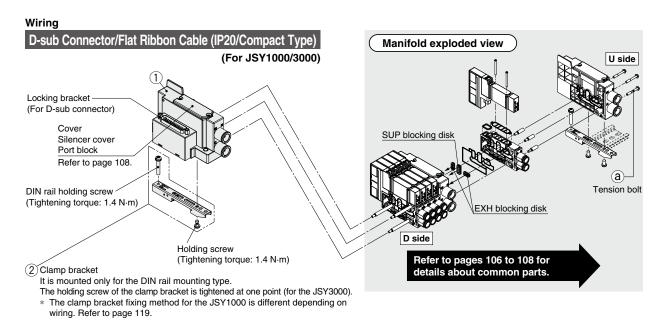
Part no.	Connector entry direction
SY30M-14-9A1	Upward
SY30M-14-9A2	Lateral

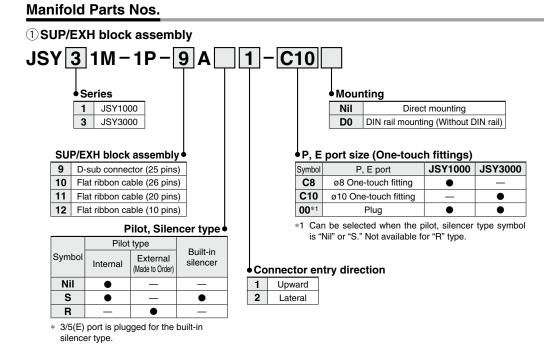
③ Clamp bracket

Series	Part no.
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.

JSY1000/3000 Series



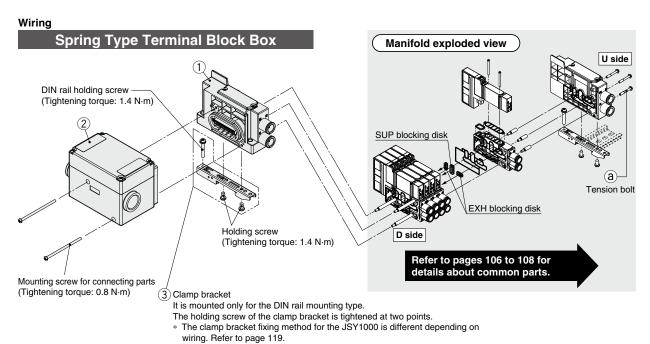


2 Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A

* Part number is for one piece.

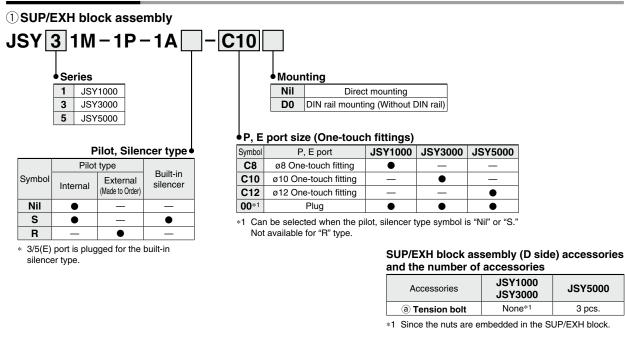
Connector Connecting Base Manifold Exploded View JSY1000/3000/5000 Series



Manifold Parts Nos.

2 Terminal block assembly

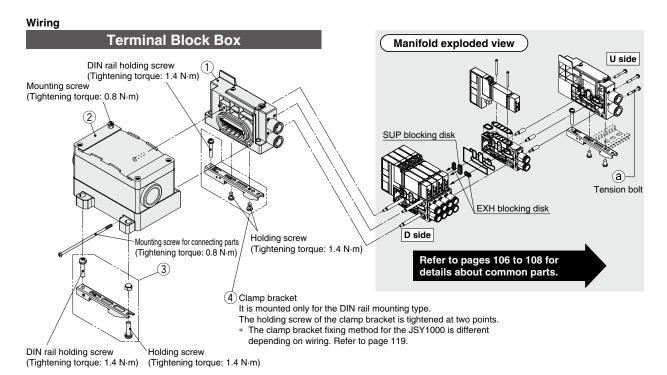
SY30M-130-1A



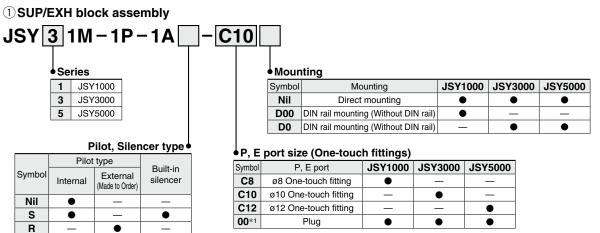
3 Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.



Manifold Parts Nos.



*1 Can be selected when the pilot, silencer type symbol is "Nil" or "S." Not available for "R" type.

> SUP/EXH block assembly (D side) accessories and the number of accessories

Accessories	JSY1000 JSY3000	JSY5000
a Tension bolt	None*1	3 pcs.

*1 Since the nuts are embedded in the SUP/EXH block.

(4) Clamp bracket

* Part number is for one piece.

Series	Part no.
JSY1000	JSY11M-15P-2A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

③Clamp bracket for terminal block box

2 Terminal block box housing assembly

3/5(E) port is plugged for the built-in

silencer type.

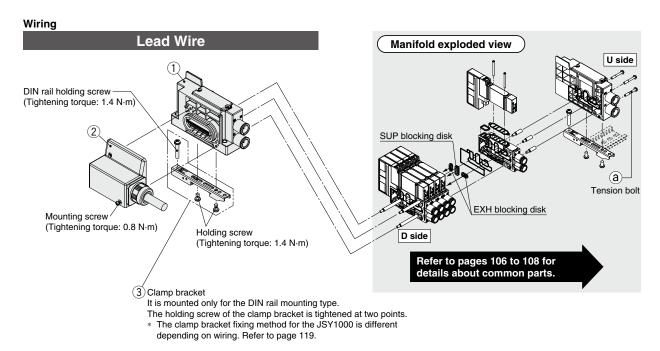
SY30M-15-4A

VVQC1000-T0-1

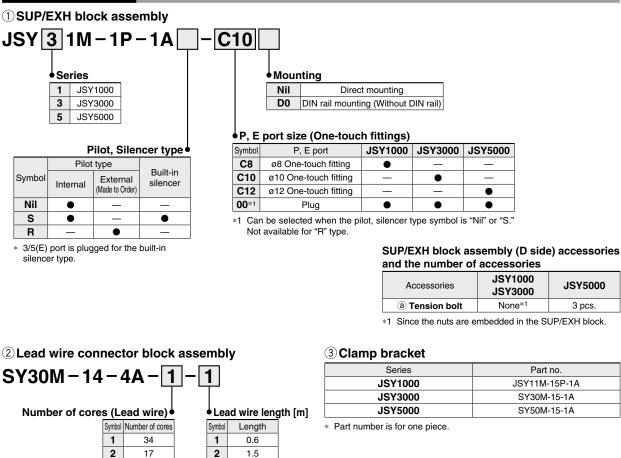
99

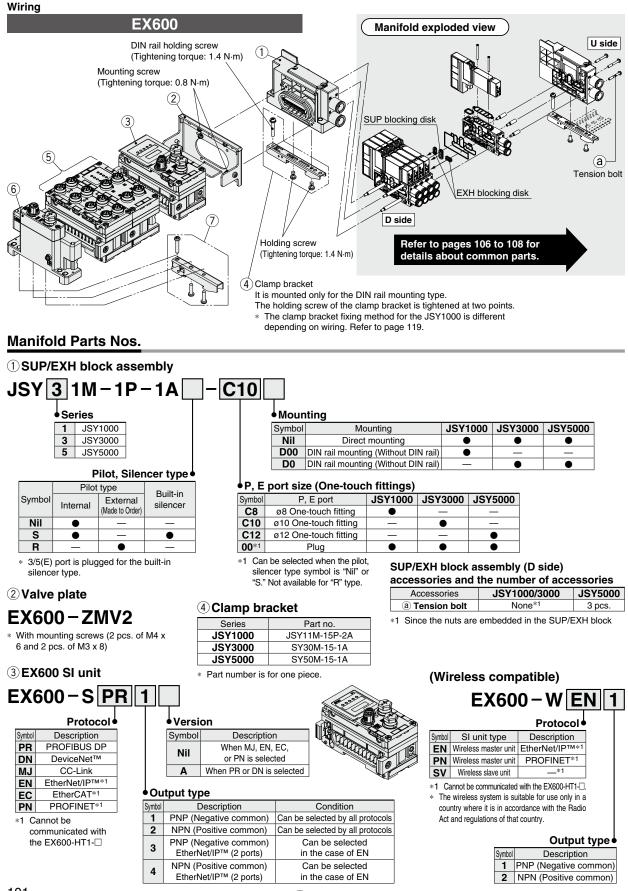
SMC SMC

Connector Connecting Base Manifold Exploded View **JSY1000/3000/5000 Series**



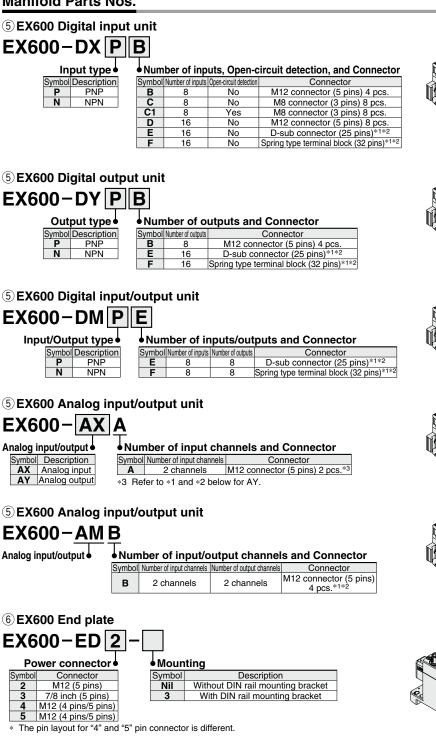
Manifold Parts Nos.





@SMC

Manifold Parts Nos.





Round head screw with washer (M4 x 20) 1 pc P-tight screw (4 x 14) 2 pcs.

*1 Cannot be communicated with the EX600-HT1- (Old version of the handheld terminal) *2 Cannot be connected with the EX600-SPR1, EX600-SPR2, EX600-SDN1, or EX600-SDN2

Wiring **EX250** Manifold exploded view U side (1 DIN rail holding screw (Tightening torque: 1.4 N·m) SUP blocking disk (a)-Tension bolt EXH blocking disk Holding screw (Tightening torque: 1.4 N·m) D side (3) Clamp bracket assembly Refer to pages 106 to 108 for details about common parts. It is mounted only for the DIN rail mounting type. The holding screw of the clamp bracket is tightened at two points. The clamp bracket fixing method for the JSY1000 is different depending on wiring. Refer to page 119. Manifold Parts Nos. **(1) SUP/EXH block assembly JSY31M-1P-1A** - C10 Series Mounting 1 JSY1000 JSY1000 JSY3000 JSY5000 Symbol Mounting 3 JSY3000 Nil Direct mounting • • 5 JSY5000 D00 DIN rail mounting (Without DIN rail) **D0** DIN rail mounting (Without DIN rail) . Pilot, Silencer type P, E port size (One-touch fittings) Pilot type Built-in JSY1000 JSY3000 JSY5000 P, E port Symbol Symbol External Internal silencer C8 ø8 One-touch fitting • (Made to Order C10 ø10 One-touch fitting Nil . C12 ø12 One-touch fitting . • S . **00***1 Plug . • • R • *1 Can be selected when the 3/5(E) port is plugged for the built-in pilot, silencer type symbol is silencer type. and the number of accessories "Nil" or "S." Not available for "R" type.

2 EX250 SI unit EX250-S DN1

Communication protocol

DN1	DeviceNet [™] (Negative common)	
PR1	PROFIBUS DP (Negative common)	
MJ2	2 CC-Link (Positive common)	
AS3	S3 AS-Interface (8 in/8 out, 31 slave modes, 2 isolated common type) (Negative common)	
AS5	5 AS-Interface (4 in/4 out, 31 slave modes, 2 isolated common type) (Negative common)	
AS7	AS-Interface (8 in/8 out, 31 slave modes, 1 common type) (Negative common)	
AS9	AS-Interface (4 in/4 out, 31 slave modes, 1 common type) (Negative common)	
CA1A	A CANopen (Negative common)	
EN1	EtherNet/IP [™] (Negative common)	

3 Clamp bracket

Series	Part no.
JSY1000	JSY11M-15P-2A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

* Part number is for one piece.





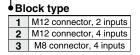
SUP/EXH block assembly (D side) accessories

Accessories	JSY1000 JSY3000	JSY5000		
a Tension bolt	None*1	3 pcs.		

*1 Since the nuts are embedded in the SUP/EXH block

4 Input block

EX250-IE 1



(5) EX250 End plate assembly

EX250-EA1

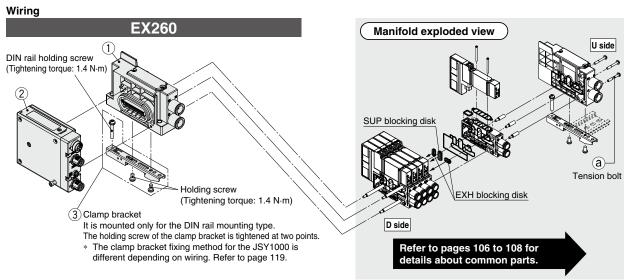
* With mounting screws (2 pcs. of M3 x 10)

6 Clamp bracket assembly for EX250

SY30M-15-3A

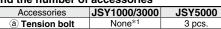
* Part number is for one assembly.

Connector Connecting Base Manifold Exploded View **JSY1000/3000/5000 Series**



Manifold Parts Nos.

1 SUP/EXH block assembly JSY 3 1M-1P-1A - C10 Series Mounting **1** JSY1000 Direct mounting Nil JSY3000 D0 DIN rail mounting (Without DIN rail) 3 JSY5000 5 P, E port size (One-touch fittings) Pilot, Silencer type JSY1000 JSY3000 JSY5000 Symbol P, E port C8 ø8 One-touch fitting Pilot type • Built-in C10 ø10 One-touch fitting External Symbol Internal silencer C12 ø12 One-touch fitting (Made to Order) Plug **00***1 Nil S . . *1 Can be selected when the R . pilot, silencer type symbol is SUP/EXH block assembly (D side) accessories "Nil" or "S." Not available for 3/5(E) port is plugged for the built-in and the number of accessories "R" type. silencer type. Accessories (a) Tension bolt 2 EX260 SI unit



.

*1 Since the nuts are embedded in the SUP/EXH block

•Cor	Communication protocol										
Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol	Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol
DN1		32	Source/PNP (Negative common)		QAN	EC1	32	Source/PNP (Negative common)		DAN	
DN2	DeviceNet™	32	Sink/NPN (Positive common)	M12	QA	EC2	C2 EtherCAT	32	Sink/NPN (Positive common)		DA
DN3	Devicemet	16	Source/PNP (Negative common)		QBN	EC3	EINEICAT	16	Source/PNP (Negative common)	M12	DBN
DN4		10	Sink/NPN (Positive common)		QB	EC4		10	Sink/NPN (Positive common)		DB
PR1		32	Source/PNP (Negative common)		NAN	PN1		32	Source/PNP (Negative common)		FAN
PR2		32	Sink/NPN (Positive common)	M12	NA	PN2		32	Sink/NPN (Positive common)	M12	FA
PR3		Source/PNP (Negative common)	IVITZ	NBN	PN3	N3	16	Source/PNP (Negative common)	IVITZ	FBN	
DD/	PROFIBUS DP	10	Sink/NPN (Positive common)	1	NB	PN4	10	10	Sink/NPN (Positive common)		FB
PR5	PROFIBUS DP	32	Source/PNP (Negative common)	D-sub*1	NCN	EN1	N2	32	Source/PNP (Negative common)		EAN
PR6		32	Sink/NPN (Positive common)		NC	EN2			Sink/NPN (Positive common)		EA
PR7		16	Source/PNP (Negative common)		NDN	EN3		16	Source/PNP (Negative common)		EBN
PR8		10	Sink/NPN (Positive common)		ND	EN4		10	Sink/NPN (Positive common)		EB
MJ1		32	Source/PNP (Negative common)		VAN	PL1	Ethernet	32	Source/PNP (Negative common)	M12	GAN
MJ2	CC-Link	32	Sink/NPN (Positive common)	M12	VA	PL3	POWERLINK	16	Source/FINF (Negative continion)	IVITZ	GBN
MJ3	OO-LINK	16	Source/PNP (Negative common)	10112	VBN						
MJ4		10	Sink/NPN (Positive common)		VB						

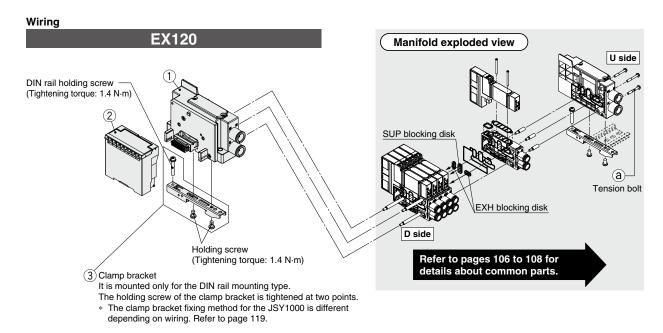
*1 Enclosure is IP40 when the communication connector is D-sub

③ Clamp bracket

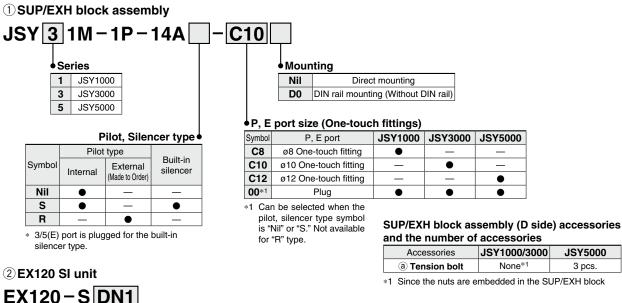
EX260-S PR

Series	Part no.	
JSY1000	JSY11M-15P-1A	
JSY3000	SY30M-15-1A	
JSY5000	SY50M-15-1A	

* Part number is for one piece.



Manifold Parts Nos.



X12	0-S	DN1

Communication protocol

DeviceNet [™] (Positive common)
OMRON Corp.: CompoBus/S (16 outputs) (Positive common)
OMRON Corp.: CompoBus/S (8 outputs) (Positive common)
CC-Link (Positive common)
CompoNet [™] NPN (Positive common)
CompoNet [™] PNP (Negative common)

3 Clamp bracket

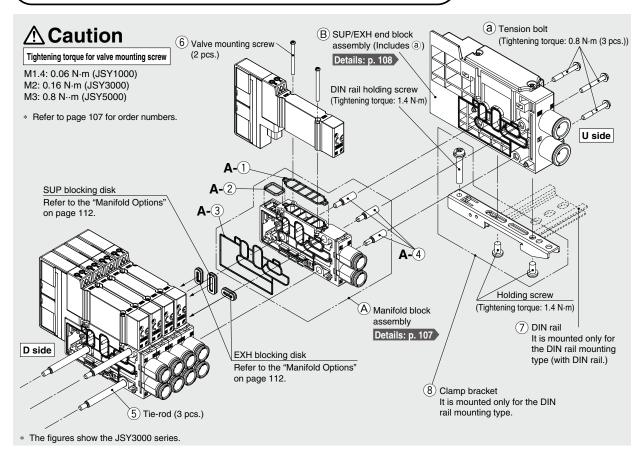
Series	Part no.	
JSY1000	JSY11M-15P-1A	
JSY3000	SY30M-15-1A	
JSY5000	SY50M-15-1A	

* Part number is for one piece.

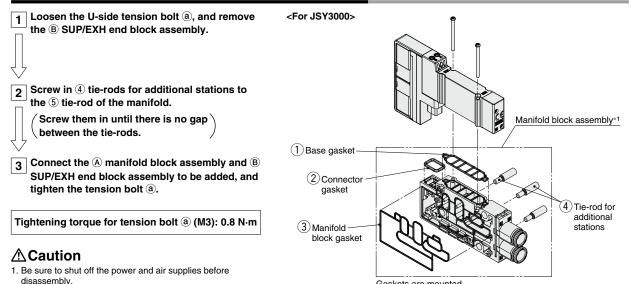
JSY5000

3 pcs.

Manifold Exploded View [Common Parts]



Type 10: How to Increase Connector Type Manifolds



Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely

- exhausted before performing any work.
- 2. When disassembly and assembly are performed, air leakage may result if the tightening of the tension bolt is inadequate.

*1 Manifold block assembly

Gaskets are mounted.

No.	Description	Quantity	Note	
123	Gasket	1 pc. of each	For base, connector and manifold block	
(4)	Tie-rod for additional stations	3		

Refer to page 107 for ordering single unit.

* ② Connector gasket is not applicable to the JSY1000.

For JJ5SY1-10, JJ5SY3-10, JJ5SY5-10

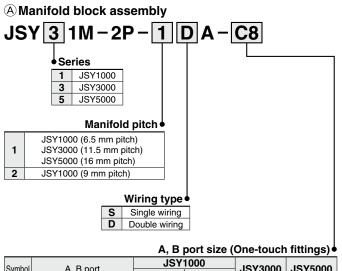
No.		Description	JSY1000		JSY3000	JSY5000	Note	
110.		Description	6.5 mm pitch	9 mm pitch	0313000	0313000	NOLE	
A- ①	ock /	Base gasket (for connector connecting base)	JSY11M	JSY11M-9P-1A		JSY51M-9P-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)	
A- 2	àá	Connector gasket	-	-	SX3000	0-146-2	Supplied individually	
A- 3	nifold issem	Manifold block gasket	JSY11M-9P-2		JSY31M-9P-2	JSY51M-9P-2	Supplied individually	
A- ④	Mai	Tie-rod for	JSY11M-49P-1-1-A	JSY11M-49P-2-1-A	JSY31M-49P-1-1-A	SV2000-55-2A-A	Q man averalized	
A- 4	-	additional stations*1	(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	3 pcs. supplied	
(5)	Tie-I	rod	JSY11M-49P-1-□-A	JSY11M-49P-2-□-A	JSY31M-49P-1-□-A	SV2000-55-1-□-A	: Manifold stations (2 to 24	
	Tie-I	lou	(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	stations) 3 pcs. supplied	
6	6 Valve mounting screw		JSY11V-23-1A		JSY31V-23-1A	JSY51V-23-1A	Part numbers shown on the	
			(M1.4 x 21.5)		(M2 x 25)	(M3 x 29)	left are for 10 valves. (20 pcs.)	
7	DIN rail		VZ1000-11-1-			VZ1000-11-4-	Refer to page 110.	
(8)	Clam	p bracket*2	JSY11M-15P-1A (Ref	er to the table below.)*2	SY30M-15-1A	SY50M-15-1A	Supplied individually	
	(for c	onnector connecting base)	JSY11M-15P-2A (Refer to the table below.)		3130W-13-1A	3130W-13-1A	Supplied individually	

*1 The manifold of the JSY1000/3000 (JJ5SY1-10/JJ5SY3-10) can be assembled by connecting the tie-rods for number of manifold stations. The manifold of the JSY5000 (JJ5SY5-10) cannot be assembled by connecting the tie-rods for additional stations for the number of manifold. Tie-rod (SV2000-55-1-□-A) is necessary.

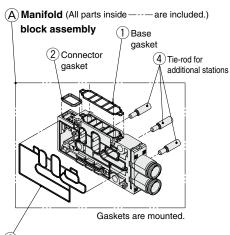
*2 Part number of the clamp bracket for the JSY1000 is different depending on the manifold wiring. Refer to the table below. Refer to page 119 for assembly.

Table.	Table. JSY1000 series clamp bracket					
	Wiring (JSY1000 series)	JSY11M-15P-1A	JSY11M-15P-2A			
F	D-sub connector	•	—			
P	Flat ribbon cable	•	—			
TC	Spring type terminal block box	•	—			
Т	Terminal block box	_	•			
L	Lead wire	•	—			
S6	EX600	—	•			
S	EX250	—	•			
S	EX260		—			
S3	EX120	•	_			

Manifold Parts Nos.



Symbol	A, B port	331	1000	JSY3000	JSY5000	
Symbol	А, Б роп	6.5 mm pitch	9 mm pitch	3313000	3313000	
C2	ø2 One-touch fitting	•	—		_	
C4	ø4 One-touch fitting	•	—	_	_	
C6	ø6 One-touch fitting	—	•	•	—	
C8	ø8 One-touch fitting	-	_	•	—	
C10	ø10 One-touch fitting	_		—	•	
C12	ø12 One-touch fitting	_		—	•	



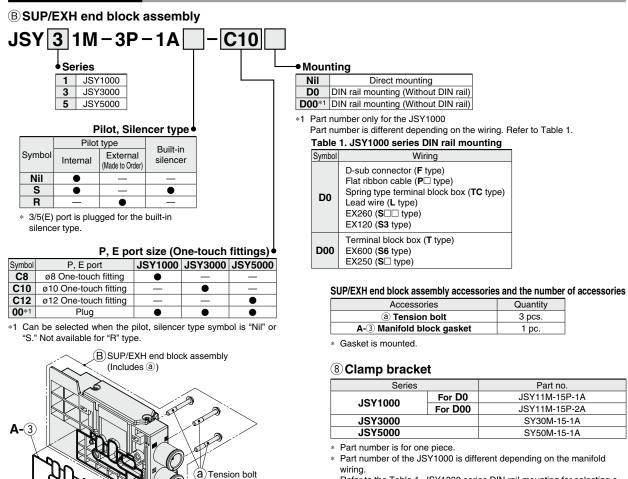
3 Manifold block gasket

Manifold block assembly accessories and the number of accessories

Accessories	Quantity
1 Base gasket	1 pc.
② Connector gasket*1	1 pc.
③ Manifold block gasket	1 pc.
④ Tie-rod for additional stations	3 pcs.

*1 Not applicable to the JSY1000 series.

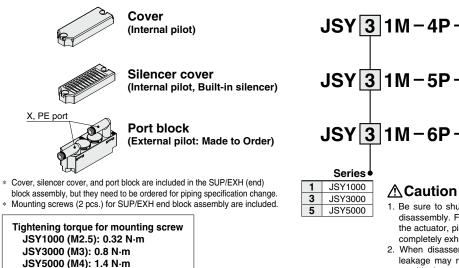
Manifold Parts Nos.



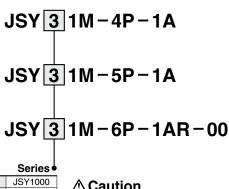
Refer to the Table 1. JSY1000 series DIN rail mounting for selecting a clamp bracket.

Cover, Silencer cover, Port block for SUP/EXH (end) block assembly

3 pcs.



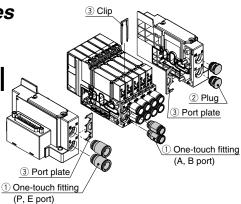
Tightening torque: 0.8 N·m \



- 1. Be sure to shut off the power and air supplies before disassembly. Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.
- 2. When disassembly and assembly are performed, air leakage may result if the tightening of the cover and port block assemblies are inadequate.

JSY1000/3000/5000 Series One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool

Refer to "How to Replace One-touch Fittings" on page 118 for the replacement method.



1 One-touch Fittings

		V				
	Series	JSY	1000	JSY3000	JSY5000	Note
Port size		6.5 mm pitch	9 mm pitch	0313000	0315000	Note
	ø2	KQSY10-C2	—	—	—	
	ø4	KQSY10-C4-X1336	—	—	—	
	ø6	_	KQSY11-C6-X1336	KQSY30-C6	—	
A, B port	ø8	-	_	KQSY30-C8-X1336	—	
	ø10	-	_	_	KQSY50-C10	Part number is for one piece.
	ø12	-	_	_	KQSY50-C12-X1336	
	ø8	KQSY30-	C8-X1336	_	—	
P, E port	ø10	-	_	KQSY31-C10-X1336	—	
	ø12	-	_	—	KQSY50-C12-X1336	

* Refer to page 118 for assembling when a fitting is replaced.

2 Plug

	Note	JSY5000 Note	JSY5000	JSY3000	JSY1000	Series Piping port
P, E port JSY11M-62P-1A JSY31M-62P-1A JSY51M-62P-1A Part number is for one piece	rt number is for one piece.	JSY51M-62P-1A Part number is for one piece.	JSY51M-62P	JSY31M-62P-1A	JSY11M-62P-1A	P, E port

* A, B port plug does not exist. Use the KQ2P series.

3 Clip, Port Plate

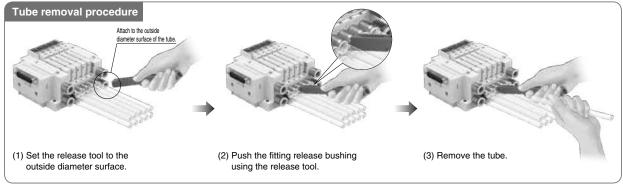
Series	S JSY1000 For A, B port C2/C4 fittings C6 fittings				
Piping port			JSY3000	JSY5000	Note
A, B port (Clip)	SJ1000-CL-1 JSY11M-19P-1A		JSY31M-19P-1A	JSY51M-19P-1A	Part number is for 10 pieces.
P, E port (Port plate)	JSY11M-10P-1		JSY31M-10P-1	JSY51M-10P-1	Part number is for one piece.

* Refer to page 118 for assembling when a fitting is replaced.

Tube Releasing Tool (This tool is used for removing the tube from port A and B.)

Carries	For JS	Y1000	Fer 101/2000		
Series	6.5 mm pitch	9 mm pitch	For JSY3000	For JSY5000	
Part no.	TG-0204	TG-0608	TG-0608	TG-1012	
Applicable tubing O.D.	ø2/ø4	ø6	ø6/ø8	ø10/ø12	





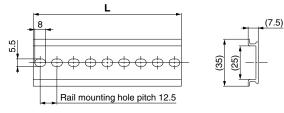
SMC

JSY1000/3000/5000 Series Manifold Options

DIN rail dimensions/weight for the JSY1000/3000 Plug-in connector connecting base

VZ1000-11-1-

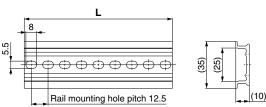
* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box 🗆.



No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4	53.6	55.9	58.1
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	60.4	62.5	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9	85.1	87.4	89.6	91.9	94.1	96.4	98.6	100.9
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
Weight [g]	103.1	105.4	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9	130.1	132.4	134.6	136.9	139.1	141.4	143.6
No.	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71				
L dimension	810.5	823	835.5	848	860.5	873	885.5	898	910.5	923	935.5	948	960.5	973	985.5				
Weight [g]	145.9	148.1	150.4	152.6	154.9	157.1	159.4	161.6	163.9	166.1	168.4	170.6	172.9	175.1	177.4				

■ DIN rail dimensions/weight for the JSY5000 Pugen connector connecting base VZ1000-11-4-□

* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box 🗆.



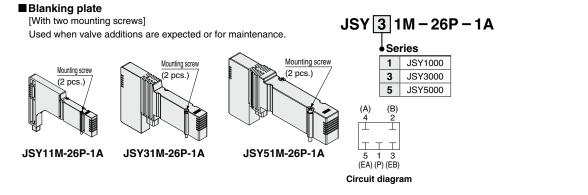
No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	84.9	88	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5	119.7	122.8	126	129.2	132.3	135.5	138.6	141.8
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
No. L dimension	38 573	39 585.5	40 598	41 610.5	42 623	43 635.5	44 648	45 660.5	46 673	47 685.5	48 698	49 710.5	50 723	51 735.5	52 748	53 760.5	54 773	55 785.5	56 798
	573					-		-	-					-			• •		
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
L dimension Weight [g] No.	573 145 57	585.5 148.1	598 151.3	610.5 154.5	623 157.6	635.5 160.8	648 163.9	660.5 167.1	673 170.3	685.5 173.4	698 176.6	710.5 179.8	723 182.9	735.5 186.1	748 189.2	760.5	773	785.5	798

JSY1000/3000/5000 Series

Manifold Options

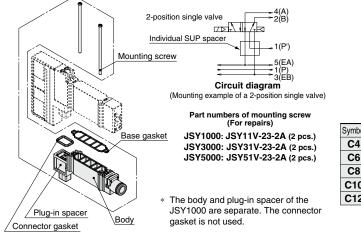
Caution Tightening torque for mounting screw M1.4: 0.06 N·m (JSY1000) M2: 0.16 N·m (JSY3000) M3: 0.8 N·m (JSY5000)

* Refer to page 113 for dimensions.



Individual SUP spacer

[With a connector gasket, a base gasket, and two mounting screws] When the same manifold is used for different pressures, an individual SUP spacer assembly is used as a supply port for different pressures.



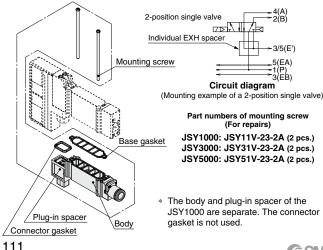
JSY 3 1M - 38 P - 1A - C6 Spacer type 38 Individual SUP spacer 39 Individual EXH spacer Series 1 JSY1000 3 JSY3000 5 JSY5000

Port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000	JSY5000
C4	ø4 One-touch fitting	•	—	_
C6	ø6 One-touch fitting	—	•	_
C8	ø8 One-touch fitting	_	—	•
C10	ø10 One-touch fitting	_	_	•
C12	ø12 One-touch fitting	—	—	

Individual EXH spacer

[With a connector gasket, a base gasket, and two mounting screws] When valve exhaust affects other stations due to the circuit configuration, this spacer assembly is used for individual valve exhaust.



/3/5 3/5

Manifold Options

SUP/EXH blocking disk

[SUP blocking disk]

By inserting the SUP blocking disk in the pressure supply passage of the manifold valve, can provide two different high and low pressure in one manifold.

[EXH blocking disk]

By inserting the EXH blocking disk in the exhaust passage of the manifold valve, can separate the exhaust from the valve so it does not affect the other valves. It can also be used for the manifold for the positive pressure and vacuum mixed manifold. (2 pieces are required to block EA/EB both sides of the EXH.)

	A		
Ca.		Ų	

Series	SUP blocking disk	EXH blocking disk
JSY1000	JSY11M-40P-1A	JSY11M-40P-1A
JSY3000	JSY31M-40P-1A	JSY31M-40P-2A
JSY5000	JSY51M-40P-1A	JSY51M-40P-1A

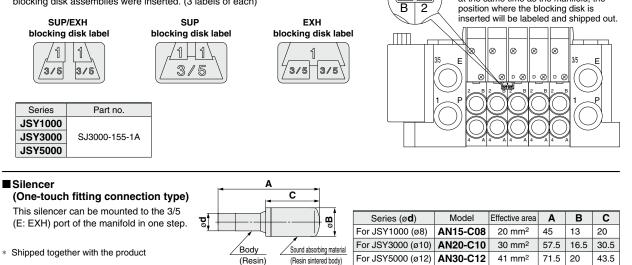
If the blocking disk is ordered using the

at the same time as the manifold, the

manifold specification sheet and ordered

Label for blocking disk

Label to indicate and confirm on the manifold where the SUP/EXH blocking disk assemblies were inserted. (3 labels of each)

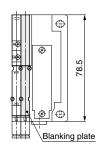


JSY1000/3000/5000 Series

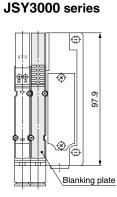
Dimensions: Manifold Options

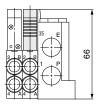
Blanking plate

JSY1000 series

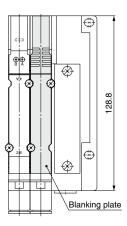


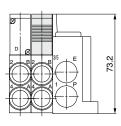






JSY5000 series

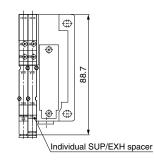


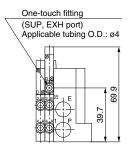


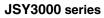
JSY5000 series

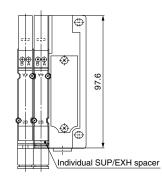
■ Individual SUP/EXH spacer

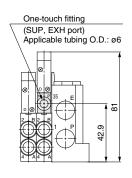
JSY1000 series

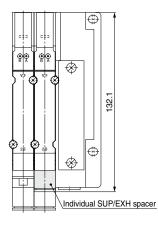


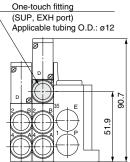








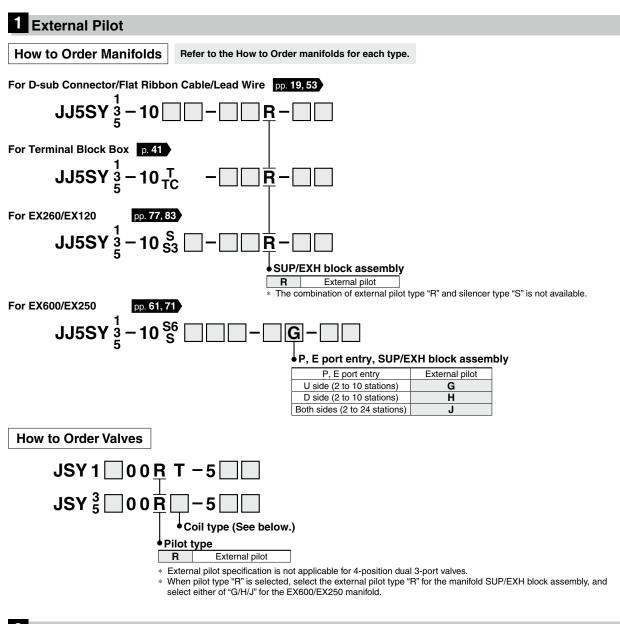




JSY1000/3000/5000 Series Made to Order

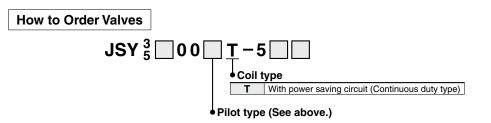
Please contact SMC for detailed dimensions, specifications and delivery times.





2 Coil Type: With Power Saving Circuit (Continuous Duty Type)

Be sure to select the power saving circuit type when the JSY3000/5000 series is continuously energized for long periods of time. Be careful of the energizing time when the power saving circuit is selected. Refer to page 116 for details. 0.1 W: JSY3000/5000





Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

Environment

Warning

- 1. Do not use valves in atmospheres of corrosive gases, chemicals, sea water, water, water vapor, or where there is direct contact with any of these.
- 2. Products compliant with IP67 enclosures (based on IEC60529) are protected against dust and water, however, these products cannot be used in water. If using in an environment that is exposed to water and dust splashes, take measures such as using a protective cover.
- 3. When using built-in silencer type manifold with an IP67 enclosure, keep the exhaust port of the silencer from coming in direct contact with water or other liquids.

Valve Mounting ▲Caution Mount it so that there is no Series Thread size Tightening torque slippage or deformation in **JSY1000** M1.4 0.06 N·m gaskets, and tighten with **JSY3000** M2 0.16 N·m the tightening torque as **JSY5000**

Manual Override

/ Warning

shown on the right.

Regardless of an electric signal for the valve, the manual override is used for switching the main valve. Connected actuator is started by manual operation. Use the manual override after confirming that there is no danger.

Non-locking push type

Push down on the manual override button until it stops.



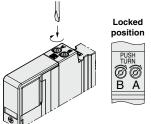
МЗ

0.8 N·m

Push-turn locking slotted type [D type]

Push down on the manual override with a small flat head screwdriver until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counterclockwise.

If it is not turned, it can be operated the same way as the non-locking push type.

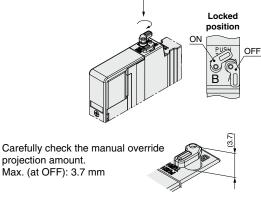


Manual Override

∕Marning

■ Push-turn locking lever type [E type] (Only for the JSY3000/5000)

Push down on the manual override by finger until it stops, and then turn it 60° clockwise. The manual override is then locked. To release it, turn it counterclockwise. If it is not turned, it can be operated the same way as the non-locking push type.



▲ Caution

Do not apply excessive torque when turning the manual override. [0.1 N·m]

When locking the manual override, be sure to push it down before turning. Turning without first pushing it down can cause damage to the manual override and other trouble such as air leakage, etc.

Used as a 3-Port Valve

Caution

■ In case of using a 5-port valve as a 3-port valve

The JSY1000/3000/5000 series can be used as normally closed (N.C.) or normally open (N.O.) 3-port port valves by closing one of the cylinder ports 4(A) or 2(B) with a plug. However, they should be used with the exhaust ports kept open. Use them when a double solenoid type 3-port valve is required.

Plu	g position	B port	A port
Туре	of actuation	N.C.	N.O.
solenoids	Single	(A)4_2(B) [고도고 [사내] (EA)5 1_3(EB) (P)	(A)4_2(B) [코도[고]1, 1년 (EA)5 1_3(EB) (P)
Number of solenoids	Double	(A)4 2(B)	(A)4 2(B) [코코고] (로시51,13(EB) (P)



Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

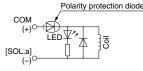
Light/Surge Voltage Suppressor

▲ Caution

Polar type Positive common

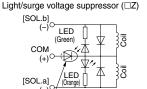
Single solenoid

Light/surge voltage suppressor ($\Box Z$)



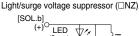
Positive common

Double solenoid. 3-position, 4-position



Polarity protection diode

3-position, 4-position



Double solenoid.

Negative common

Single solenoid

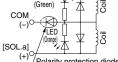
(Orange)

Negative common

Light/surge voltage suppressor (
NZ)

Polarity protection diode

Coil



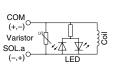
Polarity protection diode

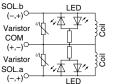
■ Non-polar type

With light/surge voltage suppressor (U)

Single solenoid

Double solenoid





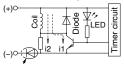
* Non-polar type is not available for the JSY1000.

With power saving circuit

Power consumption is decreased by approx. 1/3 by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 67 ms at 24 VDC.)

<Standard>

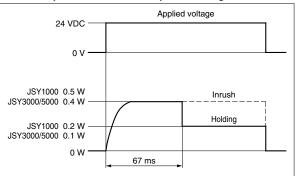
Electric circuit diagram (With power saving circuit) In the case of single solenoid



i1: Inrush current, i2: Holding current Polarity protection diode

The circuit shown to the left reduces the power consumption for holding in order to save energy. Refer to the electrical power waveform as shown below.

<Electrical power waveform with power saving circuit>



Since the voltage will drop by approx. 0.5 V due to the transistor, pay attention to the allowable voltage fluctuation. (For details, refer to the solenoid specifications of each type of valve.)

Residual voltage of the surge voltage suppressor

* If a varistor or diode surge voltage suppressor is used, there is some residual voltage to the protection element and rated voltage. Therefore, refer to the below table and pay attention to the surge voltage protection on the controller side. Also, since the response time does change, refer to the valve specifications on page 12.

Residual Voltage

Surge voltage suppressor	24 VDC
Z	Approx. 1 V
U	Approx. 47 V

Continuous Duty

Caution

If a valve is energized continuously for long periods of time, the rise in temperature due to heat-up of the coil assembly may cause a decline in solenoid valve performance, reduce service life, or have adverse effects on peripheral equipment. If the valve is energized continuously for long periods of time, be sure to use a valve with power saving circuit. In particular, if three or more adjacent stations on the manifold are energized simultaneously for extended periods of time or if the valves on A side and B side are energized simultaneously for long periods of time, take special care as the temperature rise will be greater.

Energization of a 2-Position Double Solenoid Valve

∕∧ Caution

To avoid operation failure, do not energize the A side and B side of 2-position double solenoid valve at the same time.

⁄////



Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

Countermeasure for Surge Voltage Intrusion

▲Caution

Sneak-in of surge voltage

With non-polar type valves, at times of sudden interruption of the loading power supply, such as emergency shutdown, surge voltage intrusion may be generated from loading equipment with a large capacity (power consumption), and the valve in a de-energized state may switch over (see Figure 1). When installing a breaker circuit for the loading power supply, consider using a valve with polarity (with polarity protection diode), or install a surge absorption diode between the loading equipment COM line and the output equipment COM line (see Figure 2).

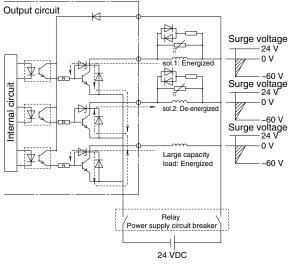


Figure 1. Surge intrusion circuit example (NPN outlet example) (24 VDC)

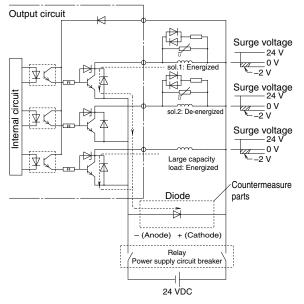


Figure 2. Surge intrusion circuit example (NPN outlet example) (24 VDC)

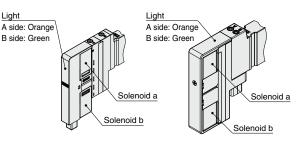
Light Indication

▲Caution

When equipped with indicator light and surge voltage suppressor, the light window turns orange when solenoid a is energized, and it turns green when solenoid b is energized.

<JSY1000 series>

<JSY3000/5000 series>



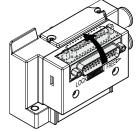
Changing Connector Entry Direction

Caution

Connector direction for electrical entry of D-sub connector and flat ribbon cable <IP40> can be changed. If the directional change is required, slide the lever on the side of the connector block to the FREE position, and then change the direction as shown in the figure. Also, before connecting the connector, be sure to return the lever to the LOCK position. (If the lever is difficult to slide, move the connector a little bit to make it easier to slide the lever.)

If an excessive force is applied on the connector in the LOCK position, the connector block may be damaged. Also, using in such a way that the connector floats in the FREE position, it may cause the lead wire etc., to break.

 Direction cannot be changed for D-sub connector <IP67> or compact type.





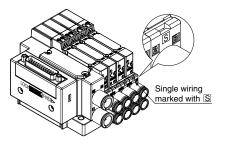
Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

How to Order Manifolds

ACaution

The letter "[S]" is indicated on manifold blocks for the JSY series as shown below. This indication refers to the type of substrate (single wiring) inside the manifold blocks. When there is no symbol, double wiring is used.

When the manifold specification sheet does not include a wiring specification, all stations will be double wiring specification. In this case, single and double solenoid valves can be mounted in any position, but when a single valve is used, there will be an unused control signal. To avoid this, indicate positions of manifold blocks for single wiring specification and double wiring specification on a manifold specification sheet. (Note that double, 3-or 4-position valves cannot be used for manifolds blocks with single wiring specification $[\underline{S}]$.)



Substrate inside Manifolds

≜Caution

The substrate inside of manifolds cannot be taken apart. Attempting to do so may damage parts.

Fixation of DIN Rail Mounting Type Manifolds

▲Caution

- 1. When the manifold is fixed with bolts on a mounting surface etc., it can be operated just by fixing on both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, fix the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 16-20 stations, and 6 locations for 21-24 stations.
- 2. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

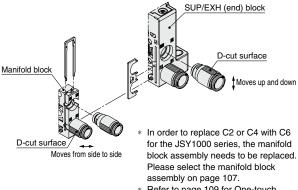
How to Replace One-touch Fittings

▲Caution

By replacing One-touch fittings of manifold base, it is possible to change the connection diameter of the 4(A), 2(B), 1(P), 3/5(E) ports. When replacing the One-touch fittings, remove the clip or the plate before pulling the One-touch fittings off. Mount the One-touch fittings by following the removal procedure in reverse.

Use caution as it may cause air leakage if the clip and the plate are not inserted securely enough when they are switched. Refer to page 109 for part numbers of One-touch fittings.

Connector connecting base



 Refer to page 109 for One-touch fitting, clip, and port plate part numbers.

<Assembly method>

· SUP/EXH (end) block

Fitting direction is specified when the fittings below are used. Assemble the fitting so that the D-cut surfaces of the fitting face up and down.

Fitting part no.: KQSY30-C8-X1336 (JSY1000) KQSY50-C12-X1336 (JSY5000)

Manifold block

Assemble the fitting so that the D-cut surfaces of the fitting face sideways.

Fitting part no.: KQSY10-C4-X1336 (JSY1000)

KQSY11-C6-X1336 (JSY1000) KQSY30-C8-X1336 (JSY3000) KQSY50-C12-X1336 (JSY5000)



Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website.

Other Tube Brands

∧Caution

- 1. When using other than SMC brand tube, confirm that the following specifications are satisfied with respect to the tube outside diameter tolerance.
 - 1) Nylon tube 2) Soft nylon tube
 - within ±0.1 mm within ±0.1 mm 3) Polyurethane tube within +0.15 mm
 - within -0.2 mm

Do not use tube which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.

One-touch Fittings

A Caution

Tube attachment/detachment for One-touch fittings 1) Tube attachment

1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc.,

making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.

- 2. Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
- 3. After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Tube detachment

Use the release tool when the removal of tube is difficult due to the tube size. Refer to page 109 for releasing tools.

- 1. Push in the release button sufficiently, pushing its collar equally around the circumference.
- 2. Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
- 3. When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

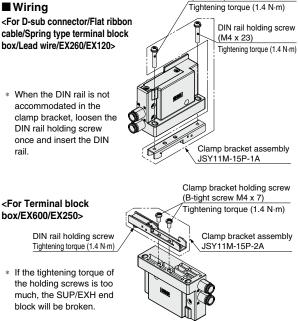
Fixing Method of JSY1000 Series Clamp Bracket

▲ Caution

The clamp bracket fixing method for the JSY1000 series is different depending on wiring. Clamp bracket holding screw

(M4 x 18)

Wiring



Installation

▲ Caution

Even though the inlet pressure is within the operating pressure range, when the piping diameter is restricted due to size reduction of supply port (P), the flow will be insufficient. In this case, the valve does not switch completely and the cylinder may malfunction.

Trademark

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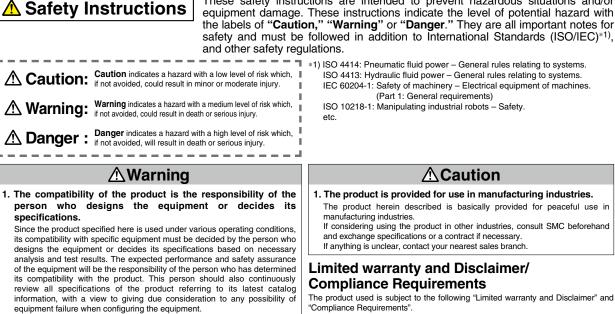
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2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent nexpected operation and malfunction

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation of experimentation, which and the matter of the second s beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog
- 3. An application which could have negative effects on people, property, or animals requiring special safety analysis
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

- 1) ISO 4414: Pneumatic fluid power General rules relating to systems. ISO 4413: Hydraulic fluid power - General rules relating to systems. IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)
 - ISO 10218-1: Manipulating industrial robots Safety

These safety instructions are intended to prevent hazardous situations and/or

ACaution

1. The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements". Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.
 - Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.

. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

	unit	conversion	result
length	m	x 3.28	ft
	mm	x 0.04	in
mass	g	x 0.04	oz
volume	cm ³	÷ 16.387	in ³
	L	x 61.024	in ³
speed	mm/s	÷ 25.4	in/s
pressure	MPa	x 145	psi
	kPa	÷ 6.895	psi
temperature	°C	x1.8 then add 32	°F
torque	N∙m	x 0.738	ft-lb
force	Ν	÷ 4.448	lbf
flow	L/min	÷ 28.317	cfm

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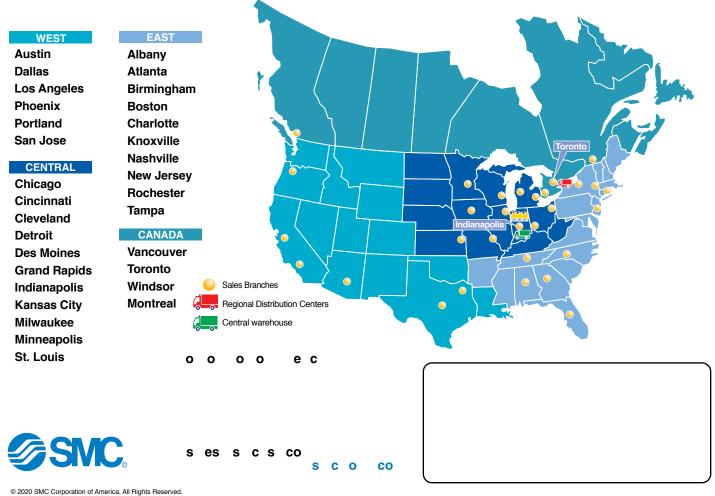
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