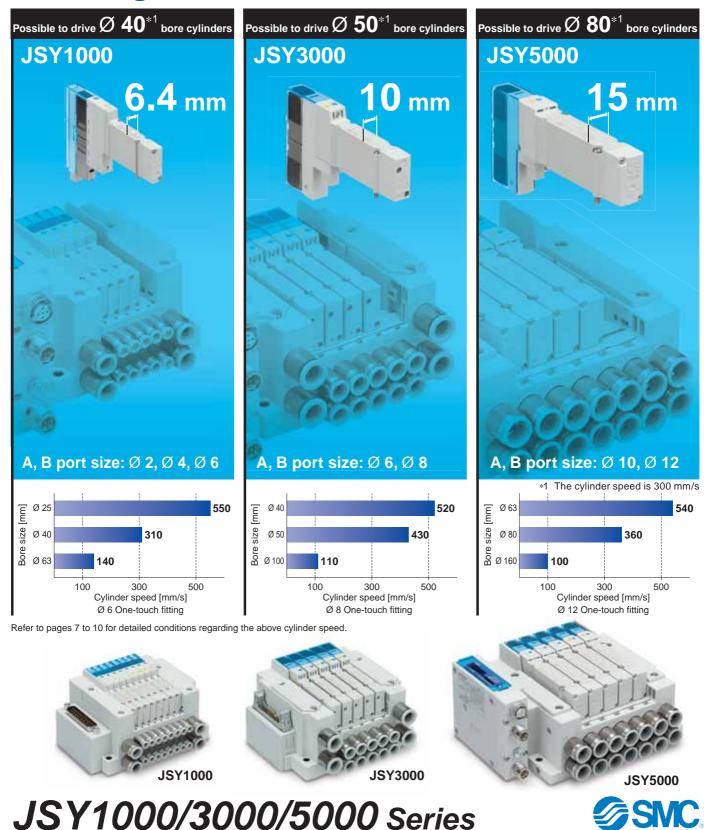
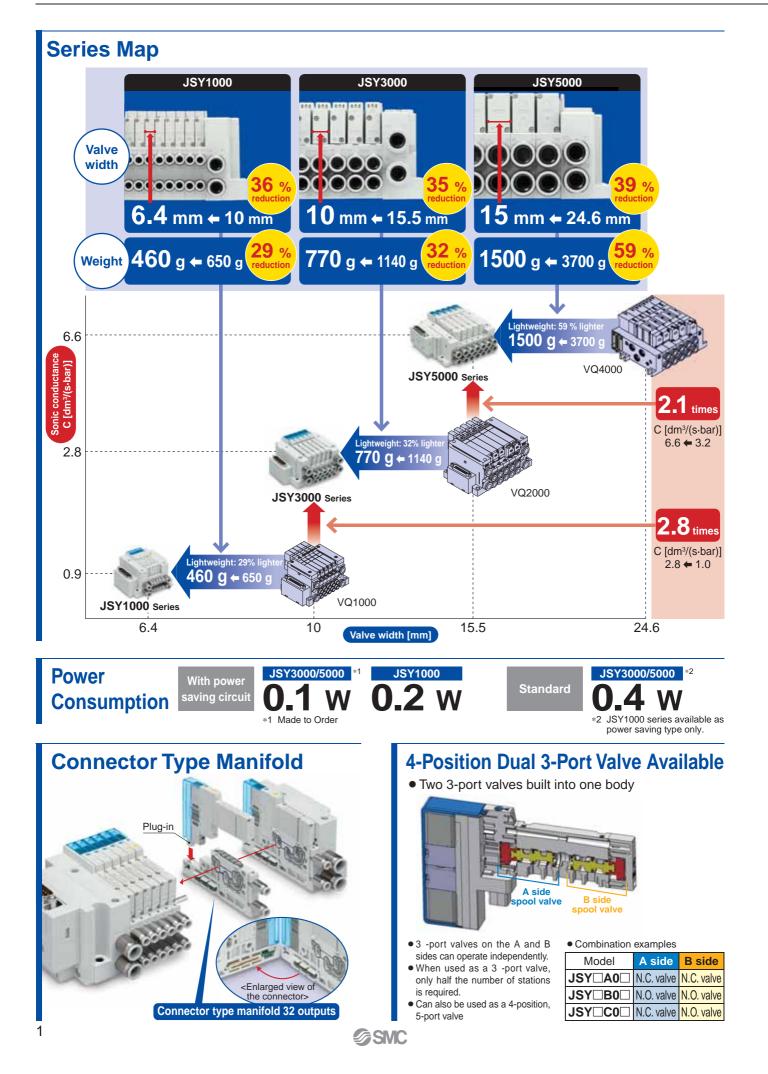
Plug-in

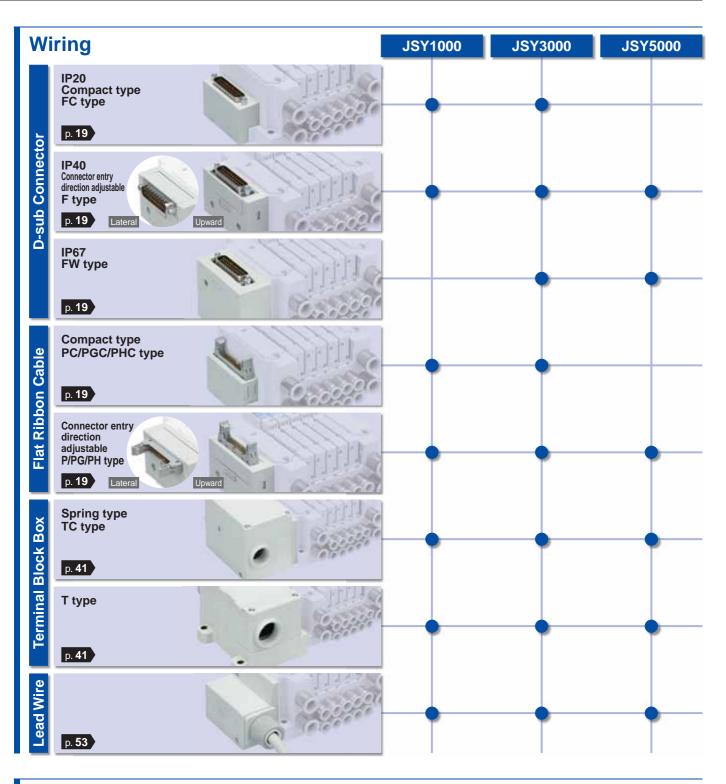
Compact 5-Port Solenoid Valve New

Size reduction possible thanks to a flow increase **(€ ROHS**) This leads to space saving, weight reduction, and a large flow rate.

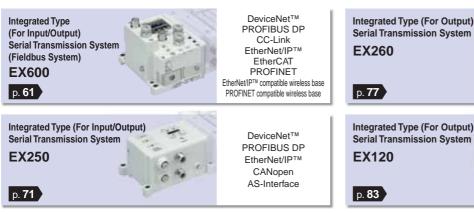


CAT.EUS11-110A-UK





Serial Transmission Compatible Protocols



SMC

DeviceNet™ PROFIBUS DP CC-Link EtherNet/IP™ EtherCAT PROFINET Ethernet POWERLINK IO-Link

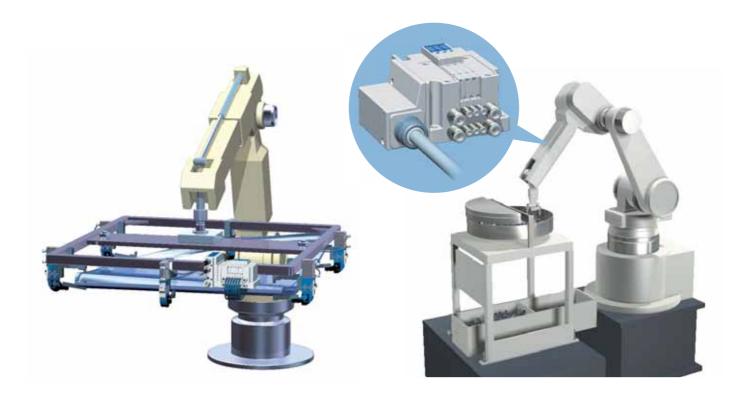
DeviceNet™ CC-Link OMRON CompoBus/S CompoNet™

Series Variations

	Sonic cond C [dm ³ /(s	·bar)]				Port size 4(A), 2(B) port							
	$\begin{cases} 4/2 \rightarrow 5\\ (A/B \rightarrow EA) \end{cases}$ $4(A), 2(B)$ port		Type of	actuation	Rated voltage	Ø 2					Ø 12	1(P), 3/5(E) port	
1000	Ø 4	0.87	2-position single (A)4 2(B) (A)4 2(B) (C)	3-position pressure centre (A)4 2(B) → → → → → → → → → → → → → → → → → → →		•	•					<i>a</i> •	
JSY1000	Ø6	0.91	2-position double (A)4 2(B) (A)4 2(B) (EA)513(EB) (P)	4-position dual 3-port valve N.C. valve x 2 pcs. 4(A) 2(B)	241/00			•				Ø8	
JSY3000	Ø 8	2.77	3-position closed centre (A)4 2(B) (EA)513(EB) (P)	5(EA) 1(P) 3(EB) N.O. valve x 2 pcs. 4(A) 2(B) (CDTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTT	24 VDC			•	•			Ø 10	
JSY5000	Ø 12	6.59	3-position exhaust centre (A)4 2(B) ∠→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→	N.C. valve, N.O. valve 1 pc. of each 4(A) 2(B) 2(B) 2(B) 5(EA) 1(P) 3(EB)						•	•	Ø 12	

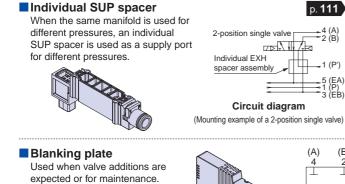
● Standard ○ Option ▲ Made to Order

Application Examples



	Wir	ring			Man	ifold Opt	ions				Va	lve Optic		
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 IP67*1
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														•

Manifold Options Individual EXH spacer



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

[SUP blocking disk]

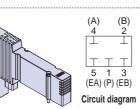
By inserting the SUP blocking disk in the pressure supply passage of the manifold valve, can provide two different high and low pressure in one manifold.

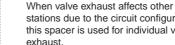
[EXH blocking disk]

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.



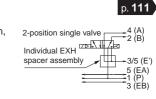


p. 112

p. 112

多SMC

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

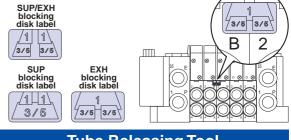


Circuit diagram (Mounting example of a 2-position single valve)

p. **112**

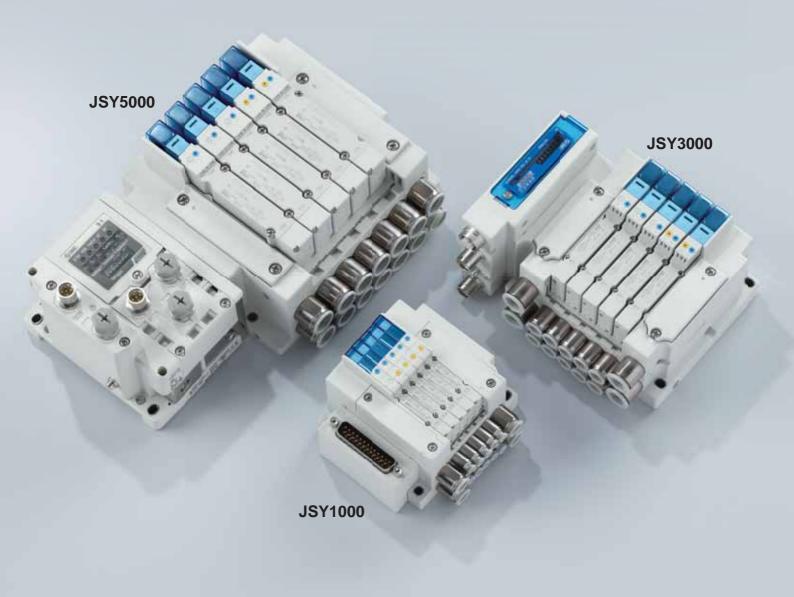
Label for blocking disk p. 111

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



Tube Releasing Tool

This tool is used for removing the p. 109 tube from port A and B. Ø 12 Ø8 For JSY5000 For JSY1000 For JSY3000 Ø 4



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Valve Specifications	·····p. 11
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Valve Replacement Parts: Pilot Valve	·····p. 14

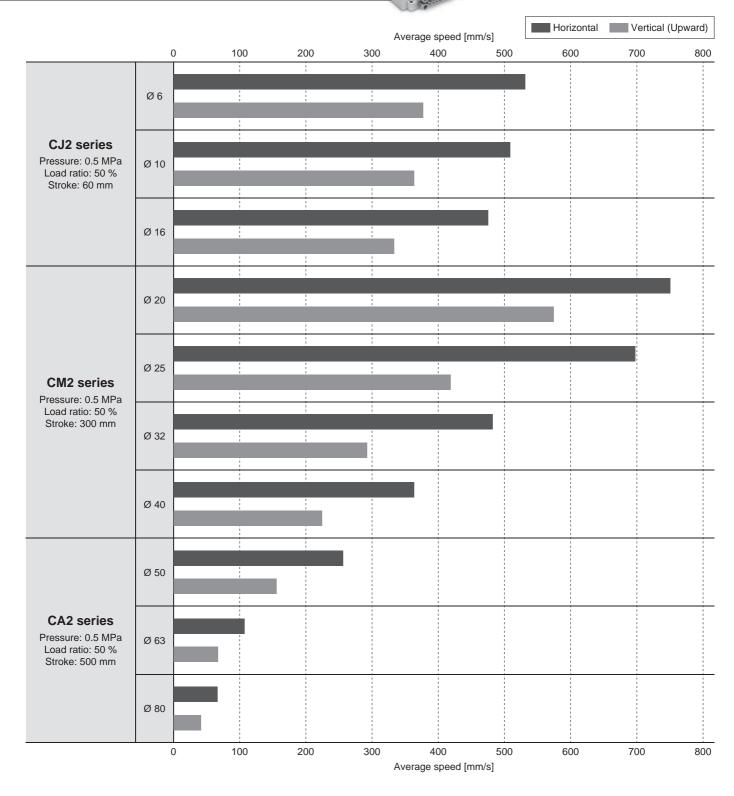
Plug-in Connector Connecting Base

	Ρ.		
Manifold Flow Rate Characteristics	p.	1	5
Connector Wiring Layout	p.	1	7

at Dibk Cable [1020/40/67] - C D ł C D-sub connector E Flat ribbon cable F 9 H Ľ Terminal block box ſ Lead wire Ε EX600 EX250 ŀ ſ EX260 ſ EX120 (Ν

	nector, Flat Ribbon Cable [IP20/40/67]	40
How to Order		
Dimensions	D-sub Connector (IP40/Connector Entry Direction Adjustable): F	
	D-sub Connector (IP67): FW	
	D-sub Connector (IP20/Compact Type): FC	
	Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable): P/PG/PH	
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	Terminal Block Box	
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Spring Type Terminal Bl Lead Wire EX600 ····· EX250 ·····	nector/Flat Ribbon Cable (IP20/Compact Type) e Terminal Block Box ock Box F F	• p. 96 • p. 97 • p. 98 • p. 99 0. 100 0. 101 0. 103
Spring Type Terminal Bl Lead Wire EX600 EX250 EX260	nector/Flat Ribbon Cable (IP20/Compact Type) e Terminal Block Box ock Box F F F F F F	p. 96 p. 97 p. 98 p. 99 p. 100 p. 100 p. 101 p. 103 p. 104
Spring Type Terminal Bl Lead Wire ⁻ EX600 ····· EX250 ····· EX260 ····· EX120 ····	nector/Flat Ribbon Cable (IP20/Compact Type) e Terminal Block Box ock Box F F F F F F F F F F F F	p. 96 p. 97 p. 98 p. 99 p. 100 p. 101 p. 103 p. 104 p. 105
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For JSY1000, A, B port: Ø 4



- * 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 catalogue for details.



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

For JSY1000, A, B port: \emptyset 6

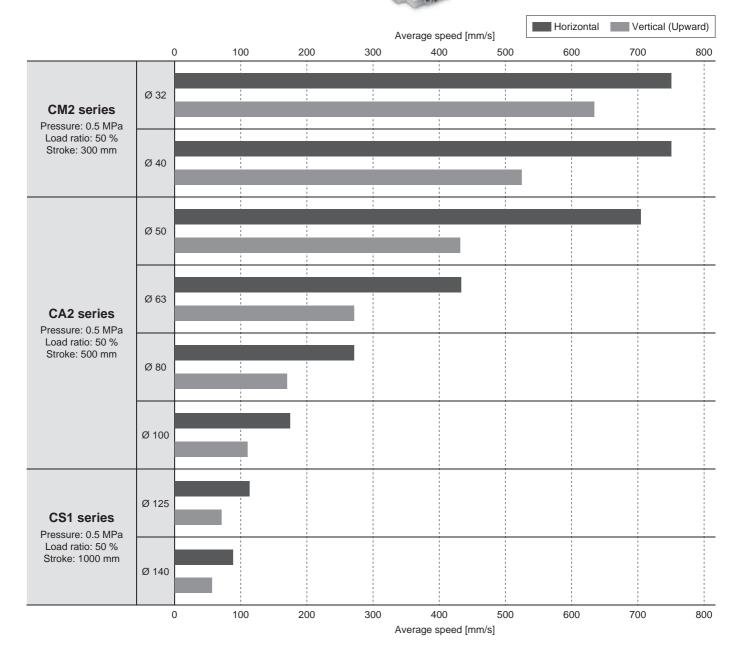
					Av	verage speed [mm/	sl	Horizontal	Vertical (U	pward)	
		0	100	200	300	400	500	600	700	800	Chart
	Ø 6										Valve
CJ2 series Pressure: 0.5 MPa	Ø 10										ector ecting Base
Load ratio: 50 % Stroke: 60 mm	Ø 16										Plug-in Connector Connecting Base
											D.sub Flat Ribbon
	Ø 20										Terminal Block
CM2 series Pressure: 0.5 MPa	Ø 25										Lead wire
Load ratio: 50 % Stroke: 300 mm	Ø 32										EX600
	Ø 40										EX250
	Ø 50										EX260
											EX120
CA2 series Pressure: 0.5 MPa	Ø 63										Common Dimensions
Load ratio: 50 % Stroke: 500 mm	Ø 80										Manifold Exploded View
	Ø 100										Fittings, Replacement Parts, Tools
		0	100	200	300 Av	400 /erage speed [mm/	500 s]	600	700	800	Manifold Options
											Made to Order

- * 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 catalogue for details.



Specific Product Precautions

For JSY3000, A, B port: Ø 8



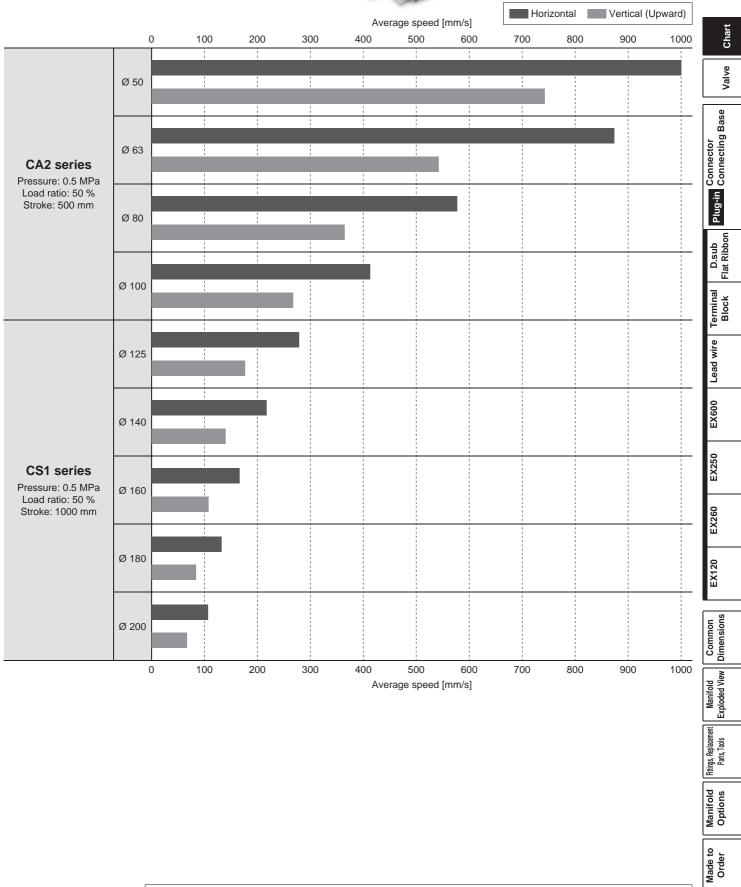
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is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



^{*} 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: \emptyset 12





- * 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 catalogue for details.



Specific Product Precautions

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type			Rubber seal		
Fluid			Air		
	2-position sing	ale	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 dua	l 3-port valve	0.15 to 0.7		
External pilot	Operating pres	ssure range	–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		
Phot exhaust type	External pilot	(Made to Order)	Individual exhaust		
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]			±10 % of the rated voltage		
	Standard	JSY3000/5000	0.4		
Power consumption [14/]	With newser	JSY1000	0.2*3 [Inrush 0.5, Holding 0.2]		
Power 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 energised and de-energised 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 energised and de-energised 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.

Valve Specifications JSY1000/3000/5000 Series

Response Time

			Response	time [ms]*1	
Series Model	Model	Model Type of actuation With light/surge		oltage suppressor	
			Z type	U type	
	JSY1100	2-position single	15		
1674000	JSY1200	2-position double	7		e
JSY1000 JSY13/4/500		3-position	16	1 —	Base
	JSY1A/B/C00	4-position dual 3-port valve	19]	5
	JSY3100	2-position single	27	18	onnector
JSY3000	JSY3200	2-position double	13	12	ů ú ú
3313000	JSY33/4/500	3-position	27	24	ŬŬ
	JSY3A/B/C00	4-position dual 3-port valve	23	23	g-in
	JSY5100	2-position single	35	25	Plug-in
JSY5000	JSY5200	2-position double	19	17	
3315000	JSY53/4/500	3-position	41	37	Sub
	JSY5A/B/C00	4-position dual 3-port valve	37	37	D.SI

Valve Weight

JSY1000 Series

Valve model	Type of actuation		Weight [g]
	2 position	Single	24
	2-position	Double	27
JSY1⊡00		Closed centre	
J311_00	3-position	Exhaust centre	30
		Pressure centre	
	4-position	Dual 3-port valve	27

JSY5000 Series

Valve model	Т	Weight [g]			
	2-position	Single	91		
	2-position	Double	100		
JSY5⊡00		Closed centre			
J315_00	3-position	Exhaust centre	110		
		Pressure centre			
	4-position	Dual 3-port valve	96		

JSY3000 Series

Valve model	Т	Weight [g]		
	2 position	Single	54	
	2-position	Double	63	
JSY3⊡00		Closed centre	67	
J313_00	3-position	Exhaust centre		
		Pressure centre		
	4-position	Dual 3-port valve	63	

Terminal Block

Lead wire

EX600

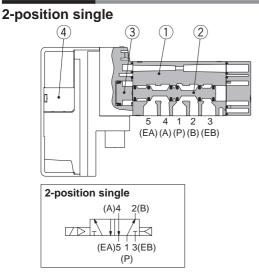
EX250

EX260

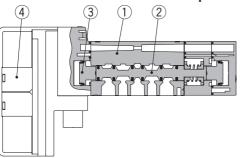
EX120

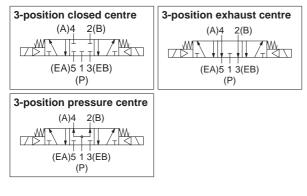
JSY1000/3000/5000 Series Valve Construction

Rubber Seal



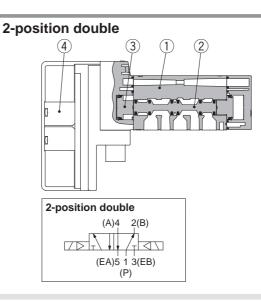
3-position closed centre/exhaust centre/pressure centre



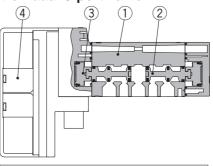


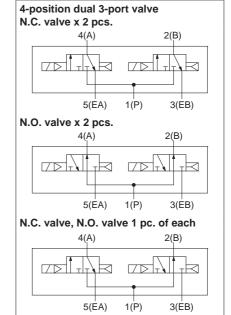
Component Parts

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	



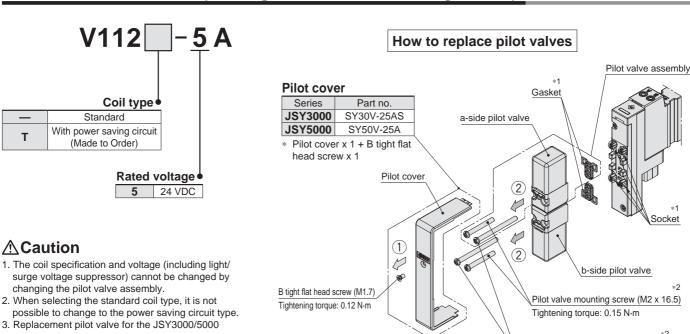
4-position dual 3-port valve





JSY3000/5000 Series Valve Replacement Parts: Pilot Valve

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



- 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.
- 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.



Chart

Valve

Plug-in Connector Connecting Base

D.sub Flat Ribbon

Terminal Block

Lead wire

EX600

EX250

EX260

EX120

*1

*2

*2

Pilot valve mounting screw (M2 x 25)

Tightening torque: 0.15 N·m

Socket

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

Manifold Specifications

			D	-sub connect	or			Flat ribb	on 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		
Manifol	d type					Plug-in co	nnector conne	ecting base					
SUP/EX	(H port type				C	ommon SUP	/EXH (Comm	on for 3/5 por	rt)				
Valve s	tations			2 to 24 stations 2 to 18 stations 2 to 18 stations 2 to 24 stations 2 to 18 stations 2 to 8 stations 2 to 18 stations 2 to 8 s									
Annling	ble connector		D-sub connector conforming to	Dedicated connector	D-sub connector conforming to			Flat ribbon ca g to MIL-C-83					
Applicable connector			MIL-C-24308 (Refer to page 37.)	(Refer to page 37.)	MIL-C-24308 (Refer to page 37.)	Socket: 26 pins MIL type	Socket: 20 pins Socket: 10 pins Socket: 26 pins Socket: 20 pins Socket: 10 pin MIL type MIL type MIL type MIL type MIL type MIL type						
Interna	l wiring					Positive cor	mmon, Negati	ve common					
	4(0) 0(5(5)	JSY1000	Ø 8 One-touch fitting										
	1(P), 3/5(E) port	JSY3000	Ø 10 One-touch fitting										
Port	port	JSY5000	Ø 12 One-touch fitting										
size	(()) ())	JSY1000	Ø 2 One-touch fitting, Ø 4 One-touch fitting, Ø 6 One-touch fitting										
	4(A), 2(B) port	JSY3000			Ø	6 One-touch	n fitting, Ø 8 O	ne-touch fittir	ng				
	port	JSY5000			Ø	10 One-touch	n fitting, Ø 12 (One-touch fitt	ing				
Enclosure (Based on IEC60529)		JSY1000		_	IP20					IP20			
		JSY3000	IP40	IP67	1F20		IP40			IF 20			
		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					
Model		1) Per station	D	-sub connect	or							
			F type	FW type*2	FC type*3	P type	PG type	PH type	PC type*3	PGC type*3	PHC type*3	
JSY1000	for Ø 4	21.3	308	—	233	306	304	298	233	231	225	
3311000	for Ø 6	26.9	319	_	244	317	315	309	244	242	236	
JSY3000	for Ø 8	42.7	332	330	287	330	328	322	257	255	249	
JSY5000	JSY5000 for Ø 12		509	507	—	507	505	499	—	_	—	

Formula for manifold weight*1

 $W = 1 \times n + 2$ (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→	4/2 (P→A	/B)	4/2→3/5 (A/B→E)						
	(P, E)	(A, B)	C [dm ³ /(s·bar)] b		Q [l/min (ANR)]*2	C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]*2				
JJ5SY1-10	C8	C4	0.63	0.46	179	0.87	0.47	250				
(Side ported)	Co	C6	0.96	0.30	244	0.91	0.48	263				
JJ5SY3-10 (Side ported)	C10	C8	2.23	0.30	567	2.77	0.27	691				
JJ5SY5-10 (Side ported)	C12	C12	6.40	0.22	1551	6.59	0.22	1597				

* Calculation of effective area S and sonic conductance C: S = 5.0 x C

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

*2 These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with and inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.



Type 10 Elugein Connector Connecting Base JSY1000/3000/5000 Series

						- Property .						
							Chart					
						- deles	ke					
Terminal b	block box	Lead wire		Seri	al wiring		Valve					
T type	TC type	L type	S6⊟ type (EX600)	S⊟ type (EX250)	S⊟ type (EX260)	S3⊟ type (EX120)	se					
		Plug-ir	n connector connecting	g base			Plug-in Connector Connecting Base					
Common SUP/EXH (Common for 3/5 port)												
2 to 20 stations			2 to 24 stations			2 to 16 stations	neci					
		Positive	e common, Negative co	ommon			u					
			Ø 8 One-touch fitting				sub					
			Ø 10 One-touch fitting				D.sub Flat Ribbon					
			Ø 12 One-touch fitting									
		0 .	Ø 4 One-touch fitting,		g		Terminal Block					
			ouch fitting, Ø 8 One-to				Blo					
		Ø 10 One-to	ouch fitting, Ø 12 One-	touch fitting								
		IP	40				wire					
IP40 IP67 IP67 IP20 IP20												
	IP67		(I/O unit: (partially IP40)	IP67	(D-sub communication connector: IP40)		EX600					
•			•	•	•	,	Û					

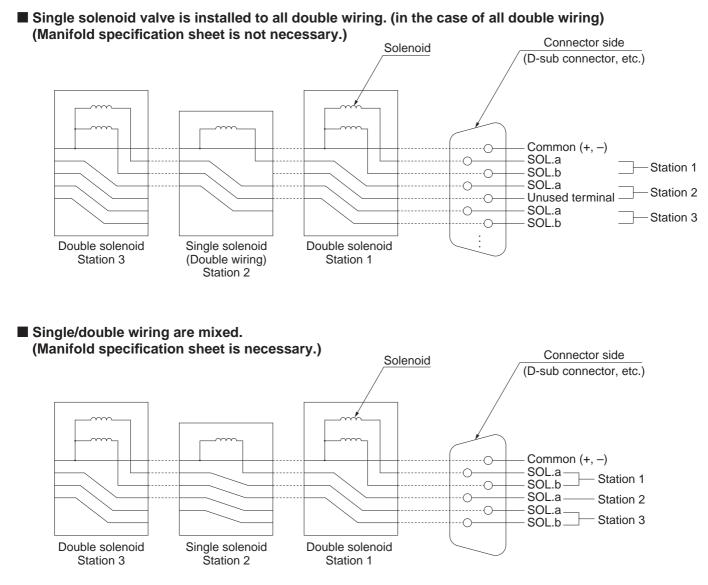
EX260	Unit: g		0.11		2 Wiring				
ш		wiring	Serial			Lead wire		block box	Terminal
20	S3⊟ type (EX120)	S⊟ type (EX260)	S⊟ type (EX250)*4	S6⊟ type (EX600)*4	L type (3 m)	L type (1.5 m)	L type (0.6 m)	TC type	T type
EX1:	367	448	520	829	698	514	404	471	680
ш.	367	457	529	838	707	523	413	480	689
	391	477	549	858	727	543	433	500	709
nc	568	682	754	1063	932	748	638	705	914
Common Dimensions	with valves	bbtain the weight	not included. To o		d size with tube fit ate number of sta		s given on page 1	the valve weight	
Manifold Exploded View			t is added.	tion when I/O uni	weight for calcula		not available for th	, PHC types are	*3 FC, PC, PGC *4 Serial unit we

Fittings, Replacement Parts, Tools

EX250

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.

Ľ	
Cha	
Valve	
Plug-in Connector Connecting Base	
D.sub Flat Ribbon	
Terminal Block	
Lead wire	
EX600	
EX250	
EX260	
EX120	
Common Dimensions	
Manifold Exploded View	
Fittings, Replacement Parts, Tools	
Manifold Options	
Made to Order	
Specific Product Precautions	



Plug-in Connector Connecting Base

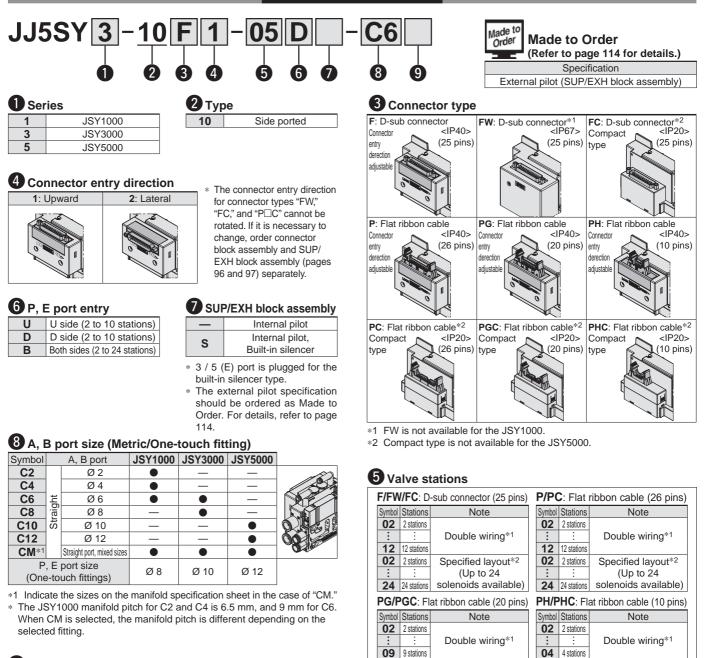
D-sub Connector Flat Ribbon Cable

Type 10 Side Ported

JSY100/3000/5000 Series

Internal Pilot

How to Order Manifolds



9 Mounting and Option

\$ Symbol Mounting									
_	Direct mounting								
D	DIN rail mounting								

DIN Rail Option

—	DIN rail	DIN rail mounting (With DIN rail)											
0	DIN rail r	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.											

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.
 - **SMC**

02 2 stations

18 stations

Specified layout*2

(Up to 18

solenoids available)

valves can be used on all manifold stations.

This also includes the number of blanking plates.

02 2 stations

08 8 stations

*1 Double wiring: 2-position single, double, 3-position, and 4-position

signal. If this is not desired, order with a specified layout.

*2 Specified layout: Indicate the wiring specifications on the manifold

valves cannot be used where single wiring has been specified.)

Use of a 2-position single solenoid will result in an unused control

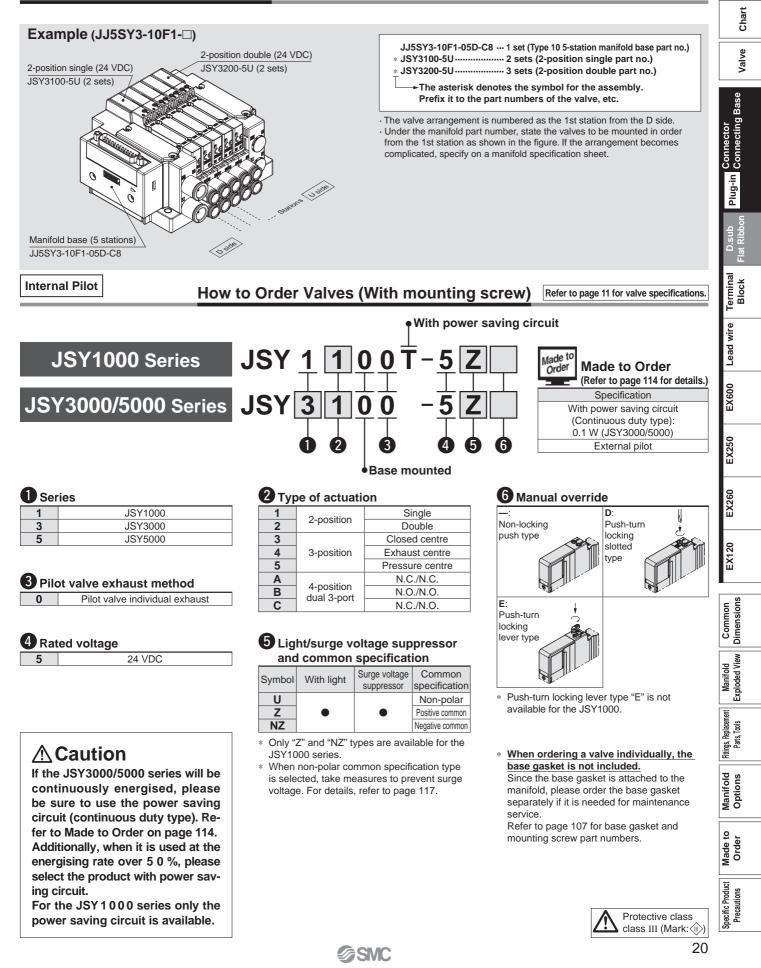
specification sheet. (Note that 2-position double, 3-position, and 4-position

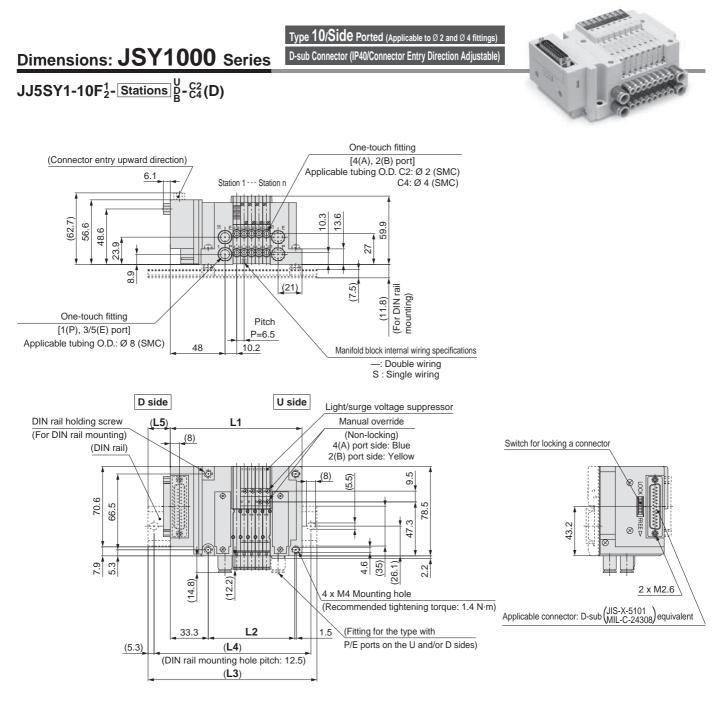
Specified layout*2

(Up to 8

solenoids available)

How to Order Manifold Assembly





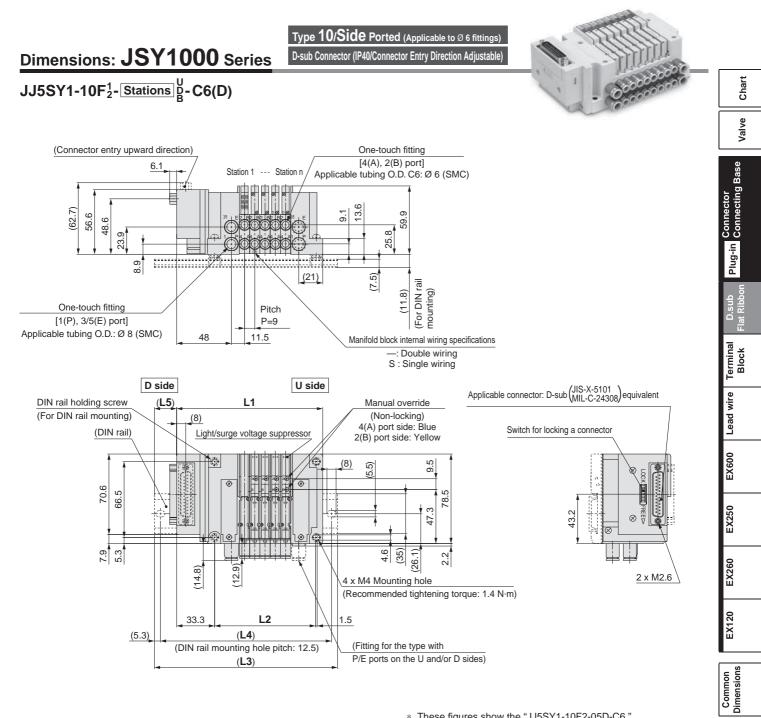
These figures show the "JJ5SY1-10F2-05D-C4."

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	ension	S											r	n: Stations	
L		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	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							

Elugin Connector Connecting Base JSY1000/3000/5000 Series



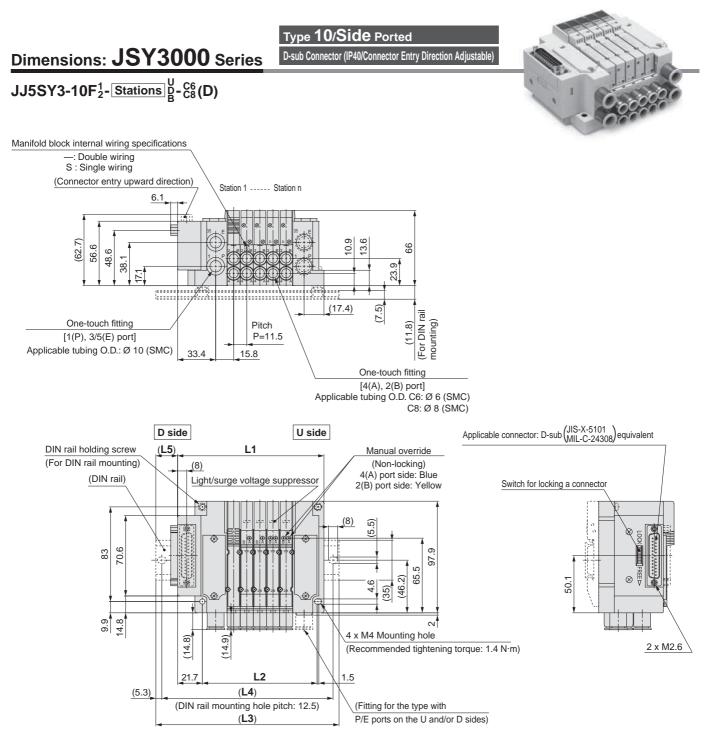
These figures show the "JJ5SY1-10F2-05D-C6." *

- 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	n: Stations	Fittings, Replacement Parts, Tools
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	E
L1	101	110	119	128	137	146	155	164	173	182	191	200	209	218	227	o d
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	ion
L3	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	Manifold Options
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	<u>ې</u> 2
∖ n	17	18	19	20	21	22	23	24								Made to Order
L1	236	245	254	263	272	281	290	299								ž O
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								t
L3	273	285.5	285.5	298	310.5	310.5	323	335.5								Specific Product Precautions
L4	262.5	275	275	287.5	300	300	312.5	325								ecific recau
L5	21.5	23.5	19	20.5	22.5	18	19.5	21.5								З, Ч
		•		•		•	6	SMC							22	

Exploded View

Manifold

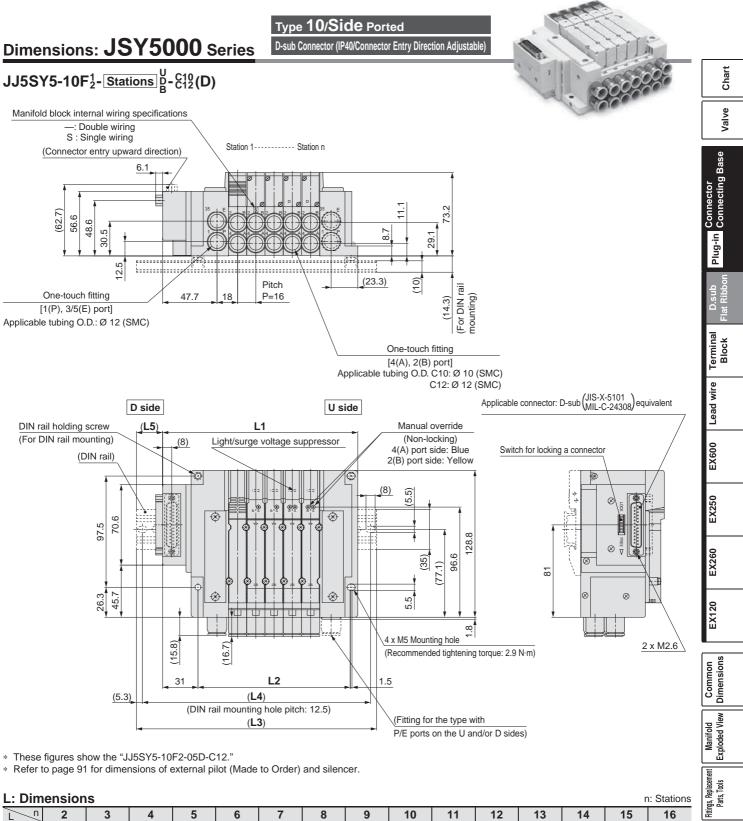


* These figures show the "JJ5SY3-10F2-05D-C8."

* 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	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
∖ 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	3 SNC														

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



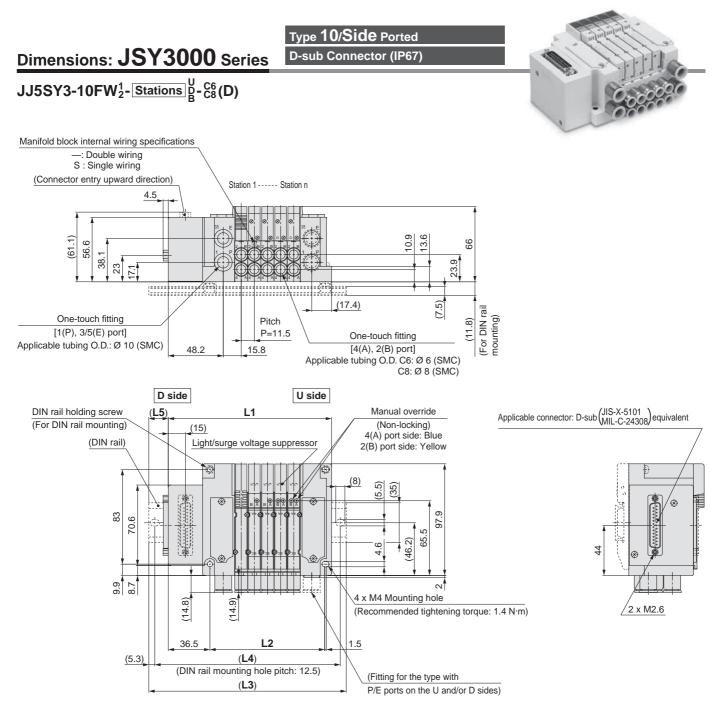
* Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dim	ension	IS												r	: Stations
L	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
	4 -	10	10												
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			

Manifold Options

Made to Order

Specific Product Precautions

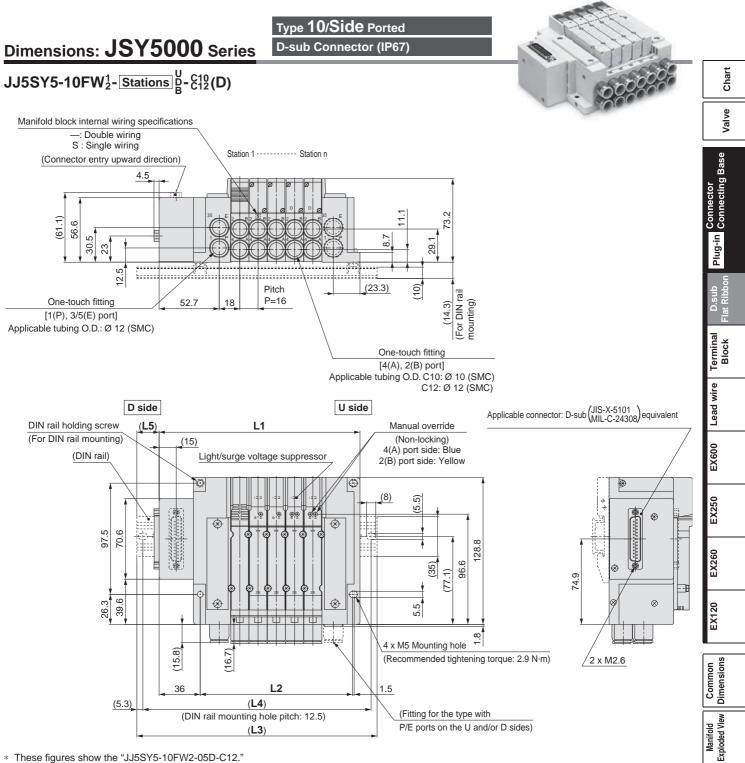


* These figures show the "JJ5SY3-10FW2-05D-C8."

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

L: Dim	ension	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
∖ 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								SMC							

Elugin Connector Connecting Base JSY1000/3000/5000 Series



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

I · Dimensions

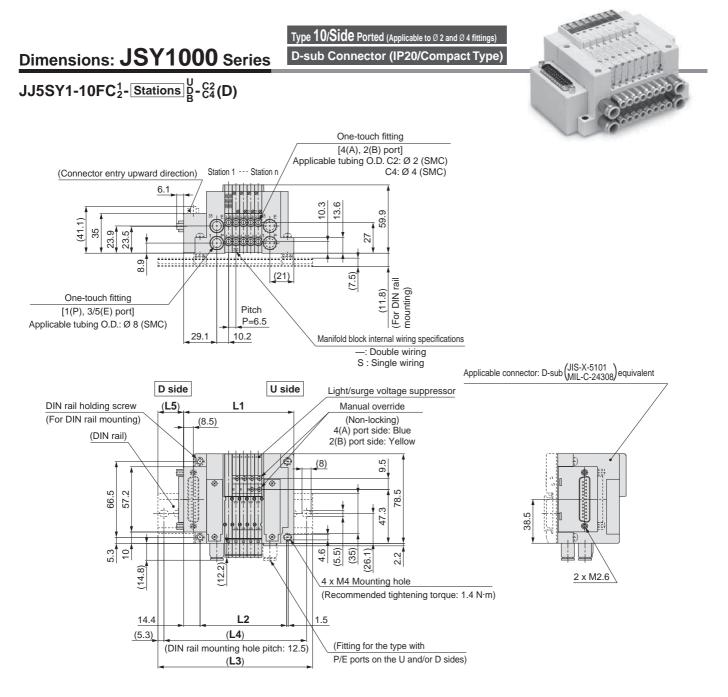
L: Dim	ension	IS												r	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	348	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
\sim n	47	40	40	20	24	22	22	24							
	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							
							S	SMC	-						26

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Specific Product Precautions



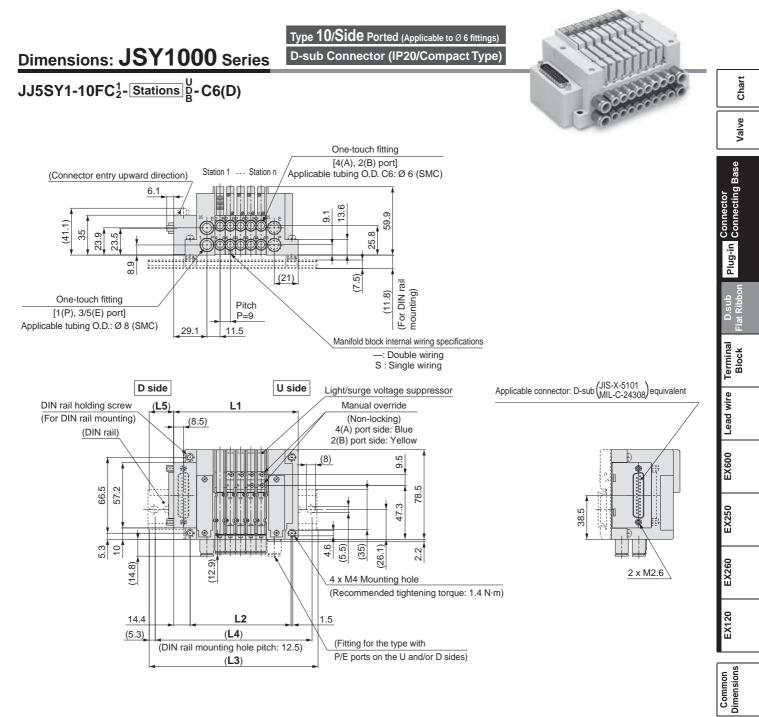
* These figures show the "JJ5SY1-10FC2-05D-C4."

* 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	: Stations
L_n	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							Ø3	SMC							

Elugin 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.

																Fittings, Replacement
L: Dim	ension	IS												r	n: Stations	gs, Rel
L _L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
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	σ
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	ifol
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248	Manifold
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	9
\sim n	17	18	19	20	21	22	23	24								Made
<u> </u>	217.1	226.1	235.1	244.1	253.1	262.1	271.1	280.1	-							Ma
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4	_							duct
L3	248	260.5	273	285.5	285.5	298	310.5	310.5	_							- Pro
L4	237.5	250	262.5	275	275	287.5	300	300								Specific Product
L5	18.5	20.5	22	24	19.5	21	23	18.5	_							ŝ
							S	SMC							28	

Exploded View

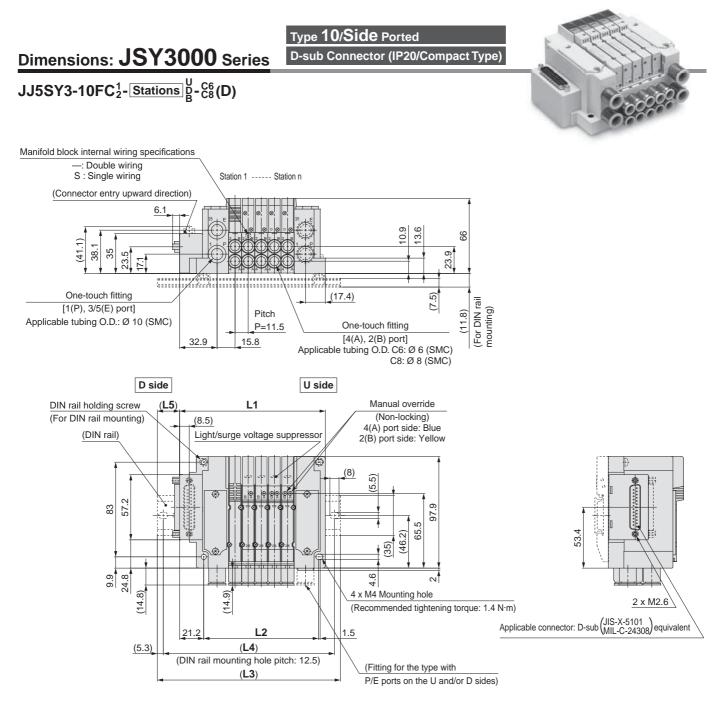
Parts, Tools

Options

Order

Precautions

Manifold

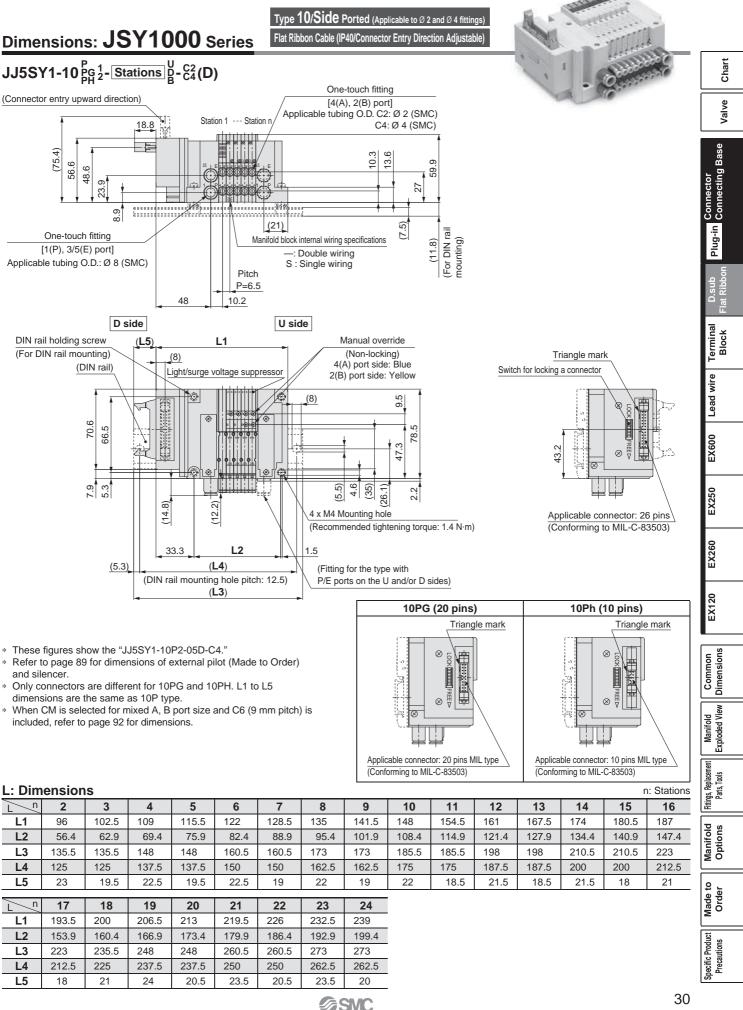


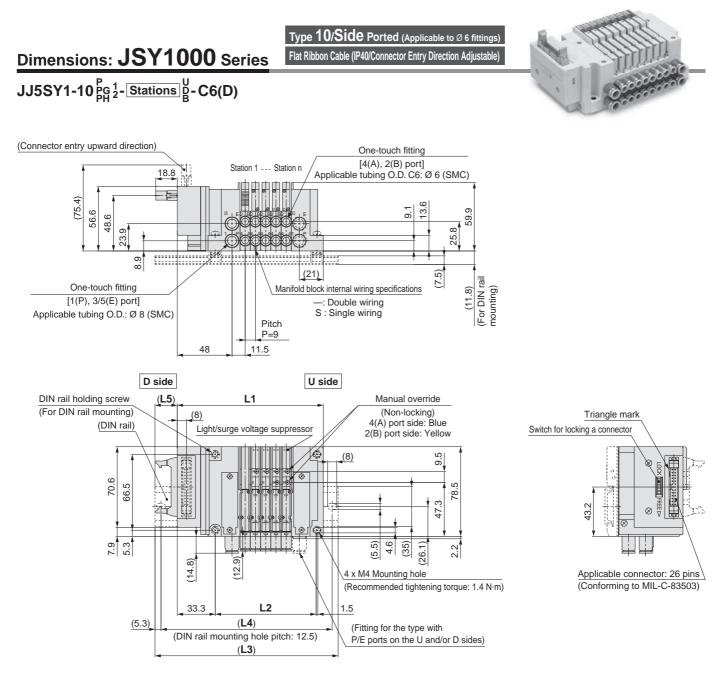
* These figures show the "JJ5SY3-10FC2-05D-C8."

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

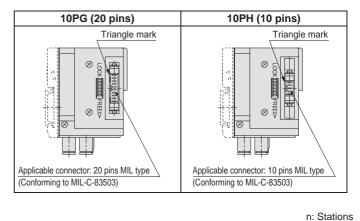
L: Dim	ension	IS												r	: Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.3	104.8	116.3	127.8	139.3	150.8	162.3	173.8	185.3	196.8	208.3	219.8	231.3	242.8	254.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	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
\sum 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							S	SMC							

Elugin Connector Connecting Base JSY1000/3000/5000 Series





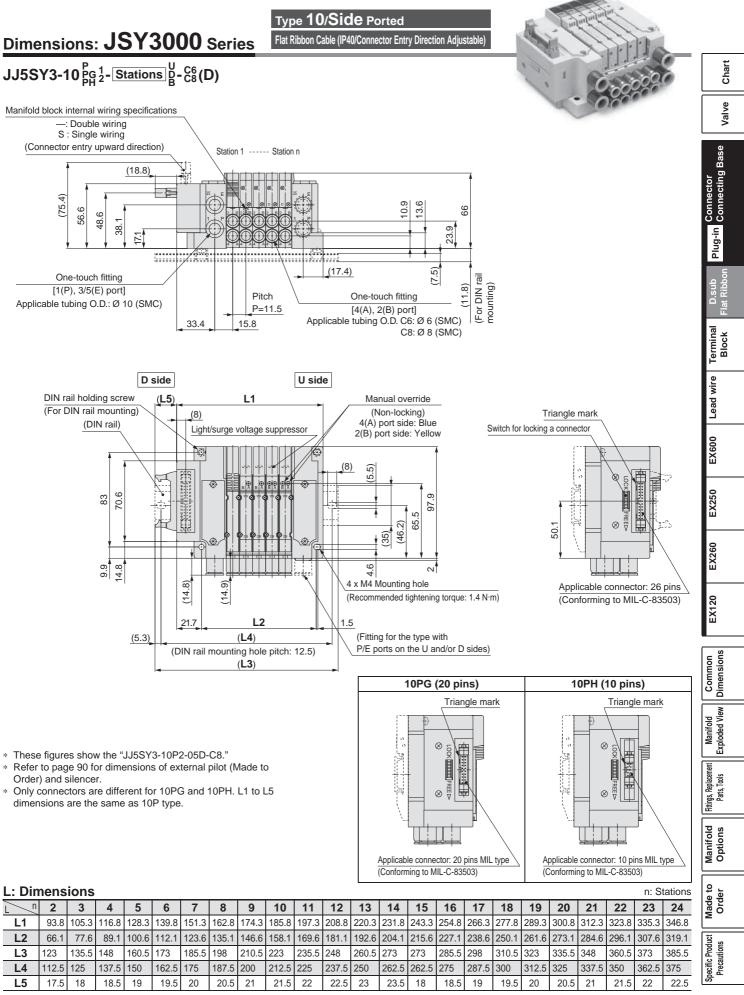
- * These figures show the "JJ5SY1-10P2-05D-C6."
- * Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- Only connectors are different for 10PG and 10PH. L1 to L5 dimensions are the same as 10P type.
- * When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

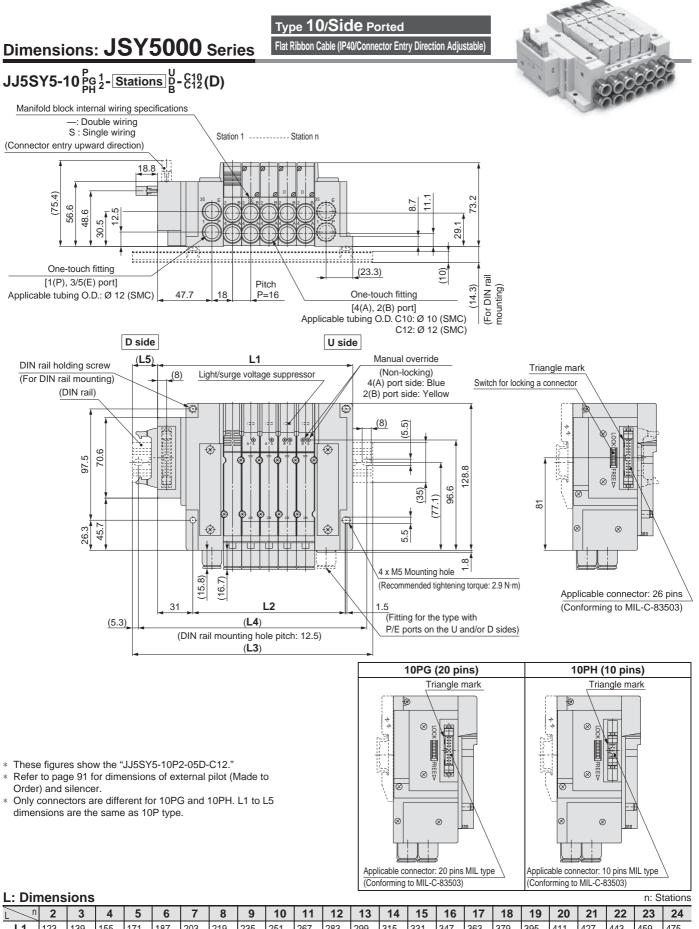


L: Dimensions

	iicii 3	10113																				11. 01	lations
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	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
31																							

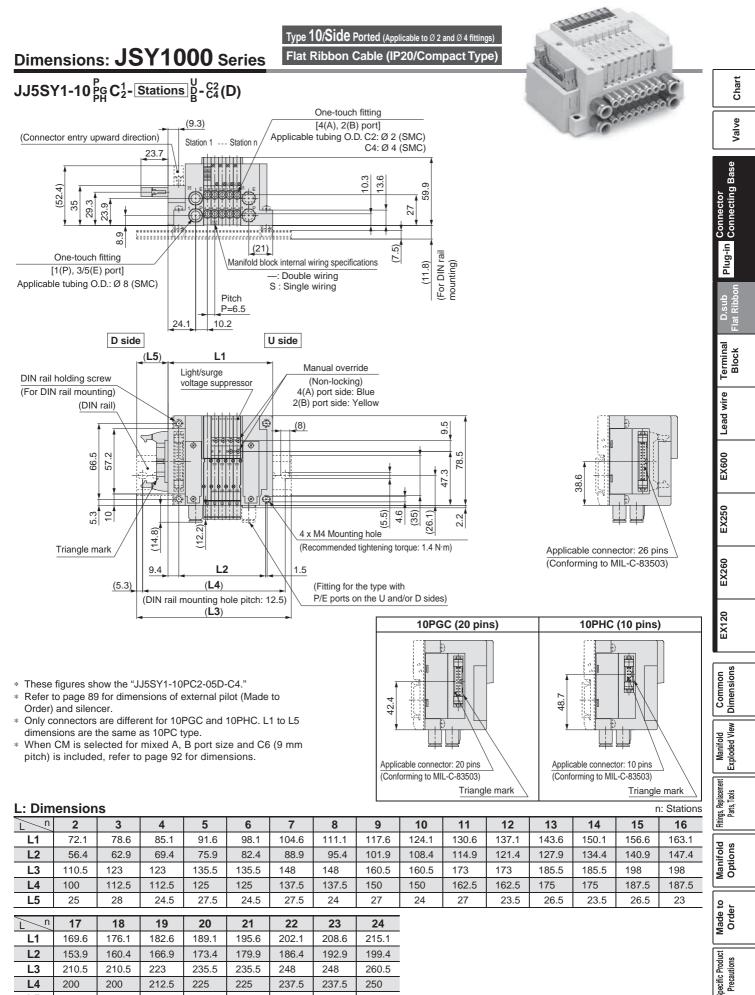
Elugin Connector Connecting Base JSY1000/3000/5000 Series





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

Elugin Connector Connecting Base JSY1000/3000/5000 Series



260.5

250

L3

L4

L5

210.5

200

26

223

212.5

26

210.5

200

23

235.5

225

29

235.5

25.5

225

248

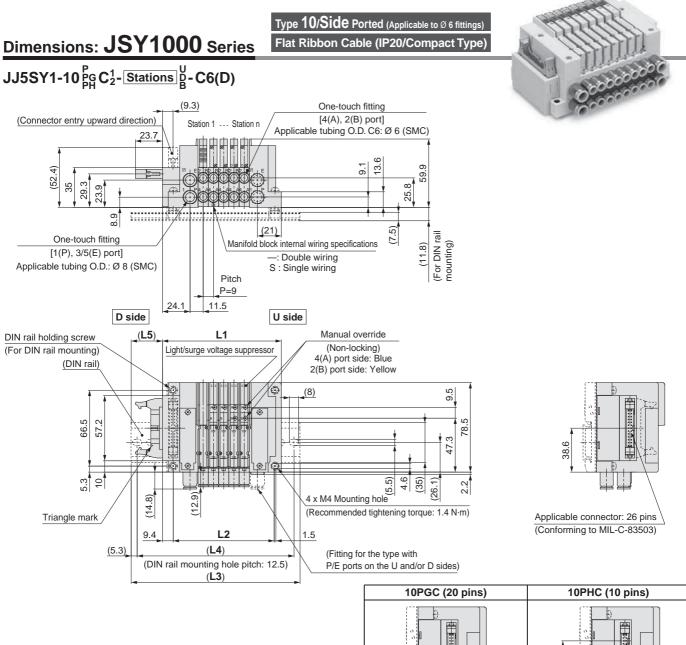
237.5

28.5

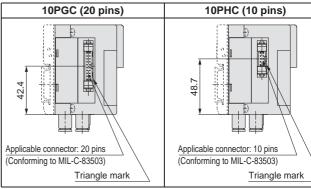
248

237.5

25.5

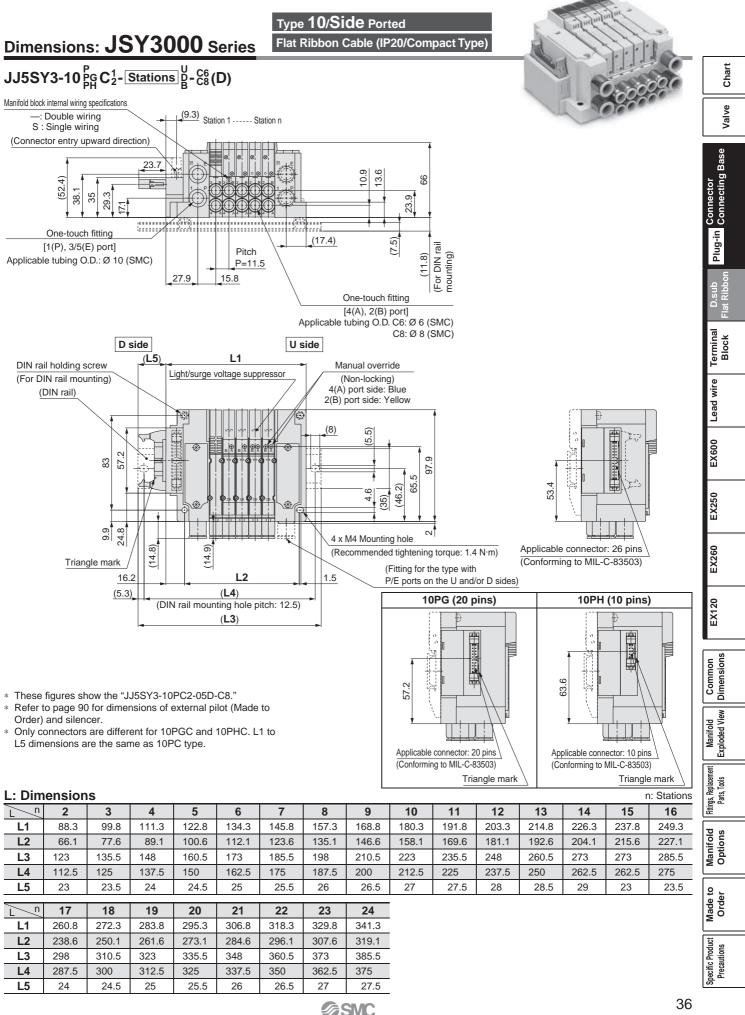


- * These figures show the "JJ5SY1-10PC2-05D-C6."
- * Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- * Only connectors are different for 10PGC and 10PHC. L1 to L5 dimensions are the same as 10PC type.
- * When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

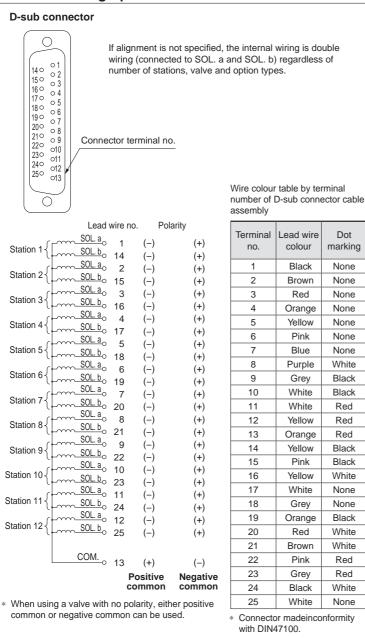


I · Dimensions

L: Dim	ension	IS												r	: Stations
L	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
\sim n	17	18	19	20	21	22	23	24							
	17	-	-	-			-								
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							
35							Ø9	SMC							



Electrical Wiring Specifications



Specified Layout

COM

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 24 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position double, 3-position and 4-position.

Connector Cable [IP20/IP40]

GVVZS3000-21A-

D-sub connector cable

Cable length (L)	Assembly part no.	Note
1 m	GVVZS3000-21A-160	60°angled
3 m	GVVZS3000-21A-260	60°angled
5 m	GVVZS3000-21A-360	60°angled
8 m	GVVZS3000-21A-460	60°angled
3 m	GVVZS3000-21A-2	Standard
5 m	GVVZS3000-21A-3	Standard
8 m	GVVZS3000-21A-4	Standard

Shielded cable

Dot

marking

None

None

None

None

None

None

None

White

Black

Black

Red

Red

Red

Black

Black

White

None

None

Black

White

White

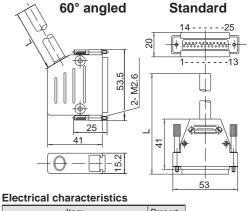
Red

Red

White

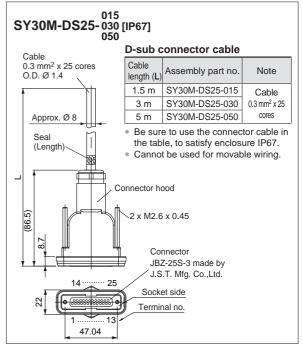
None

Cable length (L)	Assembly part no.	Note
1 m	GVVZS3000-21A-1S	Shieled
3 m	GVVZS3000-21A-2S	Shieled
5 m	GVVZS3000-21A-3S	Shieled
8 m	GVVZS3000-21A-4S	Shieled
20 m	GVVZS3000-21A-5S	Mode to order



Item	Property
Conductor resistance $\Omega/{\rm km},$ 20 $^{\circ}{\rm C}$	Max. 57
Voltage limit V, 5 minute, AC	1500
Insulation resistance M Ω /km, 20 °C	20

Connector Cable [IP67]



(25 pins)

C

15° 16° 17° 18° 19° 20° 21° 22° 23° 24° 25° 03 04 05 06 07 08 09 010 011 012

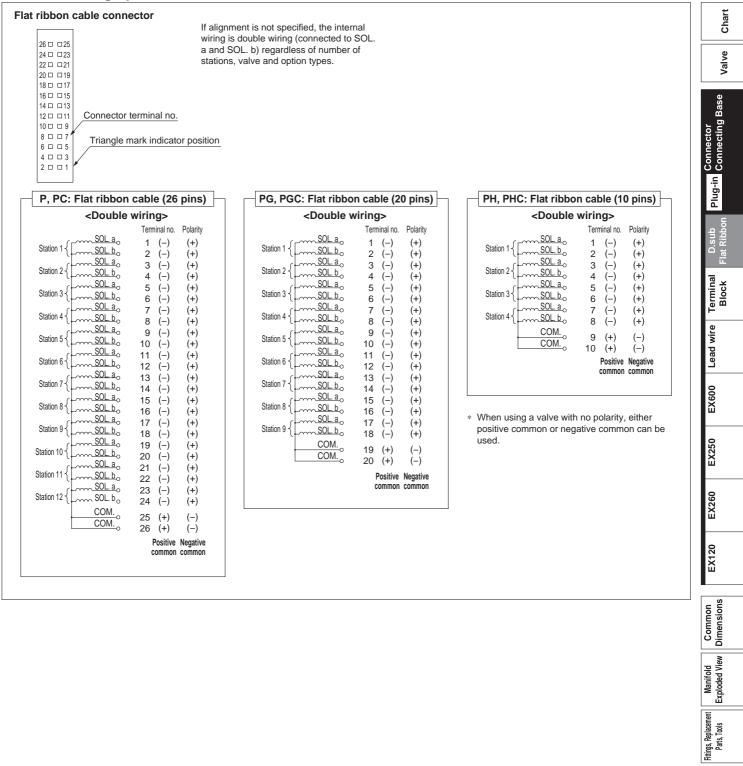
0 1404 **b**0 :

013

Ō

SMC

Electrical Wiring Specifications



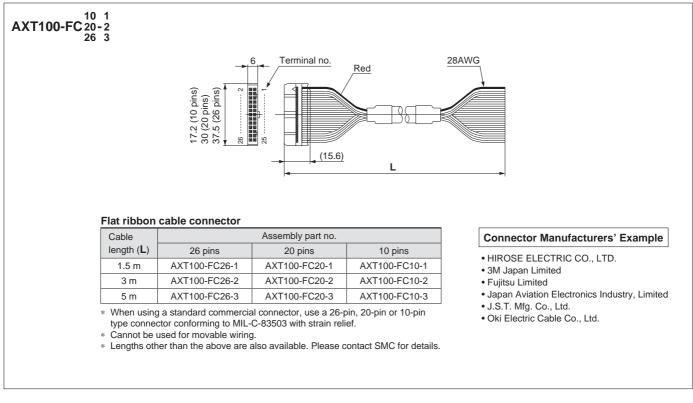
SMC

Manifold Options

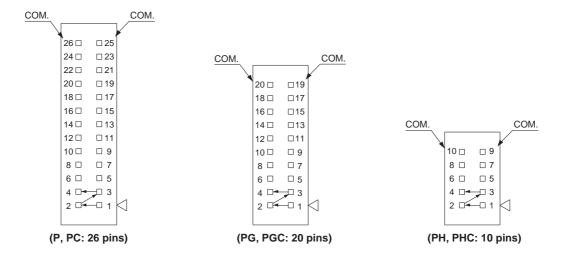
Made to Order

Specific Product Precautions

Flat Ribbon Cable Connector



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 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.

	Chart	
	Valve	
Connector	Plug-in Connecting Base	
	D.sub Flat Ribbon	
	Terminal Block	
	Lead wire	
	EX600	
	EX250	
	EX260	
	EX120	
	Dimensions	
Manifald	Exploded View	
Citize Barlassmant	Parts, Tools	
1 7	Options	
Made to	Order	
Cussifie Deduct	Precautions	



Plug-in Connector Connecting Base

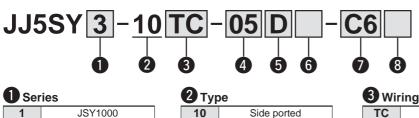
Type 10 Side Ported

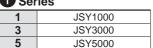
JSY1000/3000/5000 Series RoHS

Spring Type Terminal Block Box Terminal Block Box

Internal Pilot

How to Order Manifolds





4 Valve stations

TC:	Spring	type terminal block box	T: Terminal block box					
Symbol	Stations	Note	Symbol	Stations	Note			
02	2 stations		02	2 stations				
:	:	Double wiring*1	:	:	Double wiring*1			
16	16 stations		10	10 stations				
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2			
:	:	(Up to 32 solenoids	:	:	(Up to 20 solenoids			
24	24 stations	available)	20	20 stations	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.) *3 This also includes the number of blanking plates.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø 2		—	—	
C4		Ø 4		—	—	
C6	Ħ	Ø 6			—	
C8	Straigl	Ø 8	—		—	
C10	Sti	Ø 10	—	—		
C12			Ø 12	—	—	
CM *1		Straight port, mixed sizes				O Hos
		port size uch fittings)	Ø 8	Ø 10	Ø 12	

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

5 P. E port entry

ି ମ

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

Aade to

Order

Spring type terminal block box

Terminal block box

Made to Order

(Refer to page 114 for details.) Specification

External pilot (SUP/EXH block assembly)

6 SUP/EXH block assembly

_	Internal pilot
S	Internal pilot, Built-in silencer

- * 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.

8 Mounting and Option

Symbol	Mounting
-	Direct mounting
D	DIN rail mounting

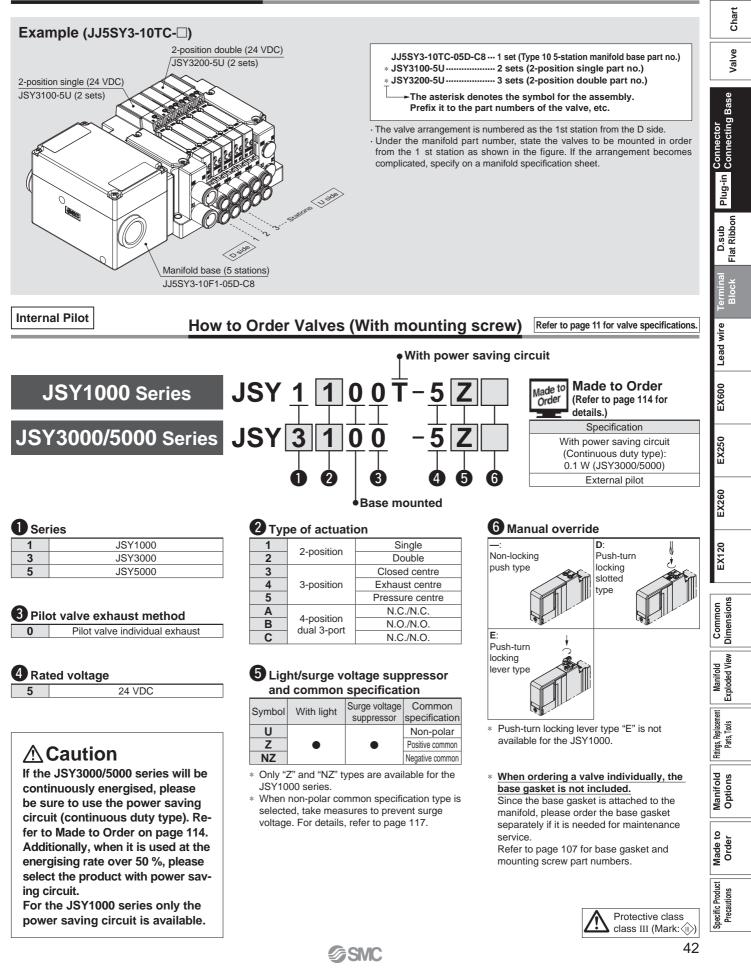
- Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail mounting type manifold.

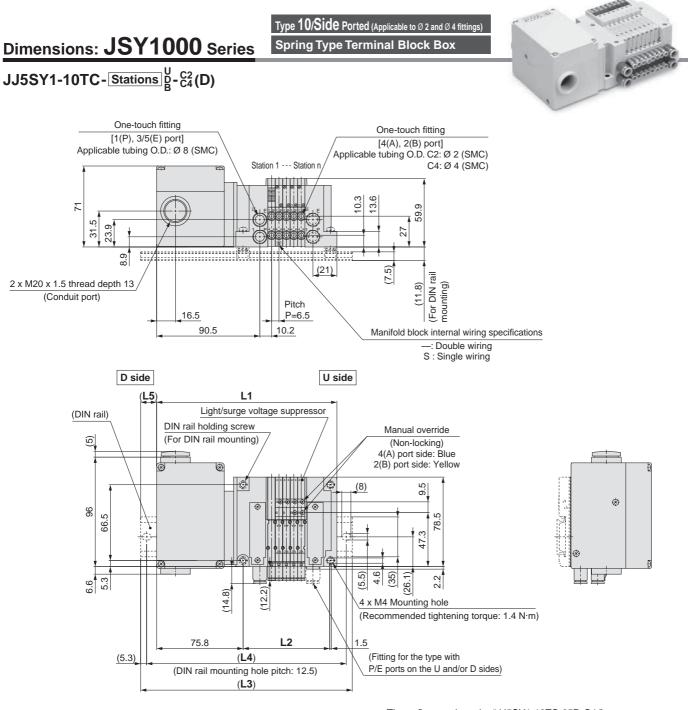
DIN Rail Option

—	DIN rail mounting (With DIN rail)									
0	DIN rail mounting (Without DIN rail)									
3	For 3 stations	Creatify a langer rail than								
:	:	Specify a longer rail than the standard length.								
24	For 24 stations	the standard lefigtil.								

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

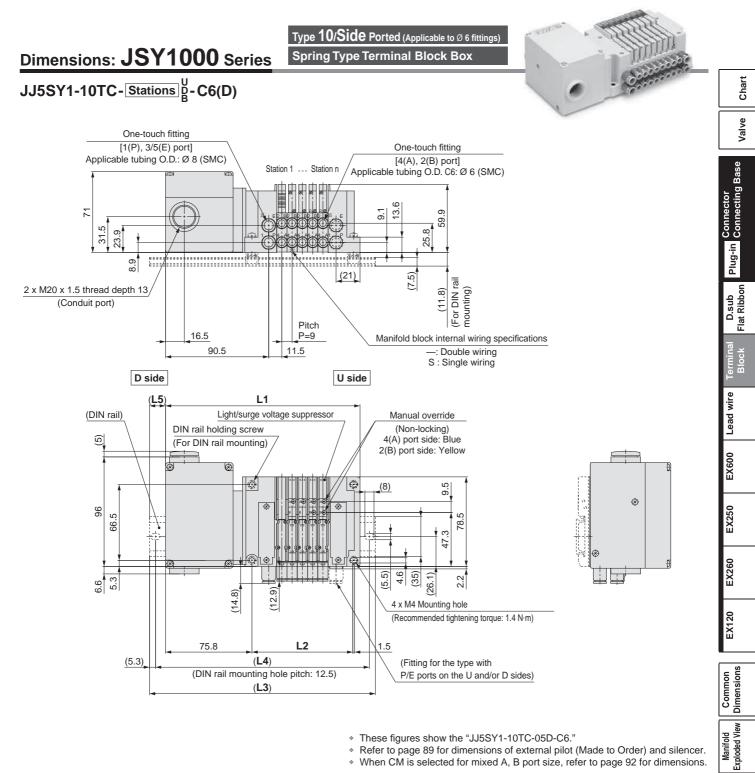




* These figures show the "JJ5SY1-10TC-05D-C4."

- * 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: Dim	L: Dimensions n: Station													n: Stations	
L _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
L	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	3 SMC														



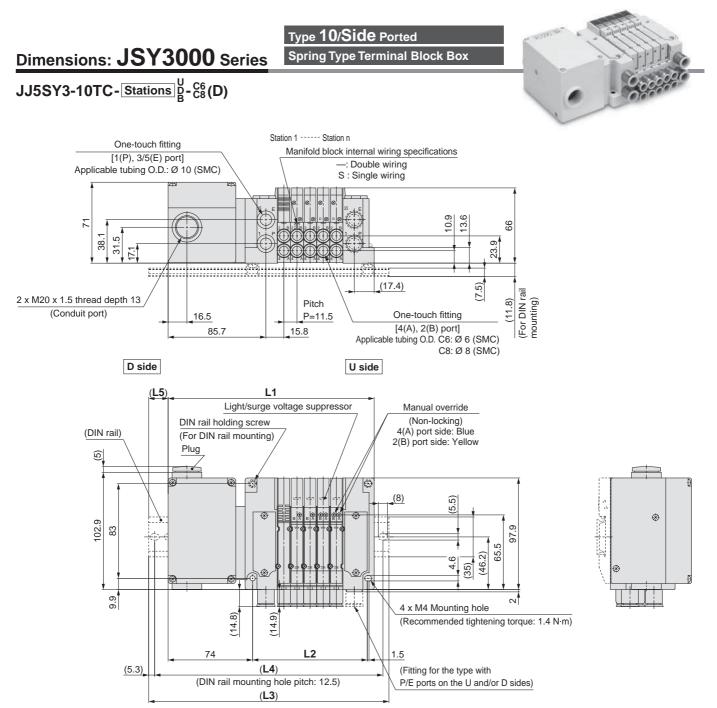
These figures show the "JJ5SY1-10TC-05D-C6."

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														Fittings, Replacement Parts, Tools	
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fitti
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	o d
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	ion
L3	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298	Manifold Options
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	<u>ب</u> 2
																e e
L	17	18	19	20	21	22	23	24								Made to Order
L1	278.5	287.5	296.5	305.5	314.5	323.5	332.5	341.5	_							2
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								uct
L3	310.5	323	323	335.5	348	348	360.5	373	-							. Proc
L4	300	312.5	312.5	325	337.5	337.5	350	362.5								Specific Product Precautions
L5	16	18	13.5	15	17	12.5	14	16	-							сs_
SNC 44																

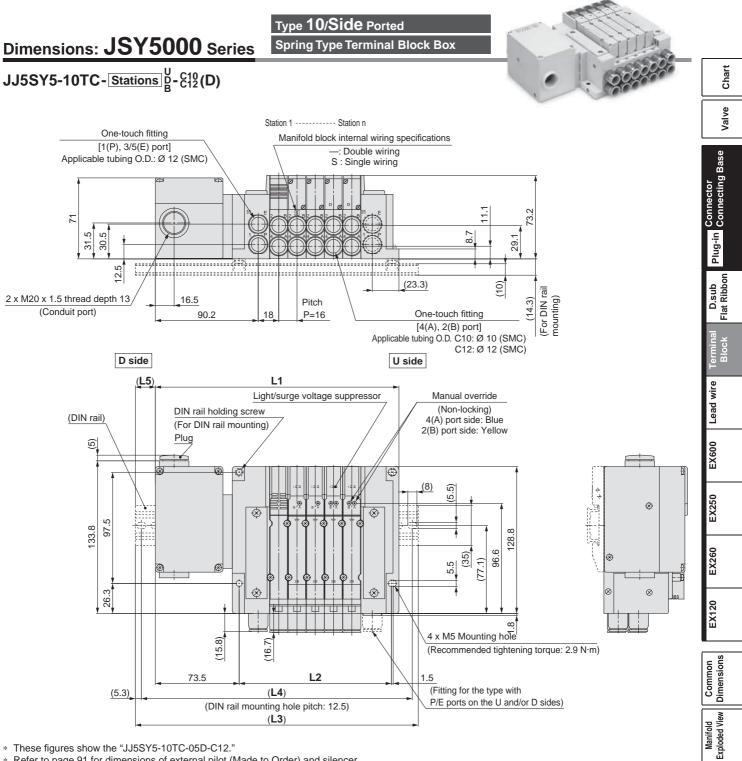
Manifold



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

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

L: Dim	ension	s												r	n: Stations
n	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
∖ 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							S	SMC							

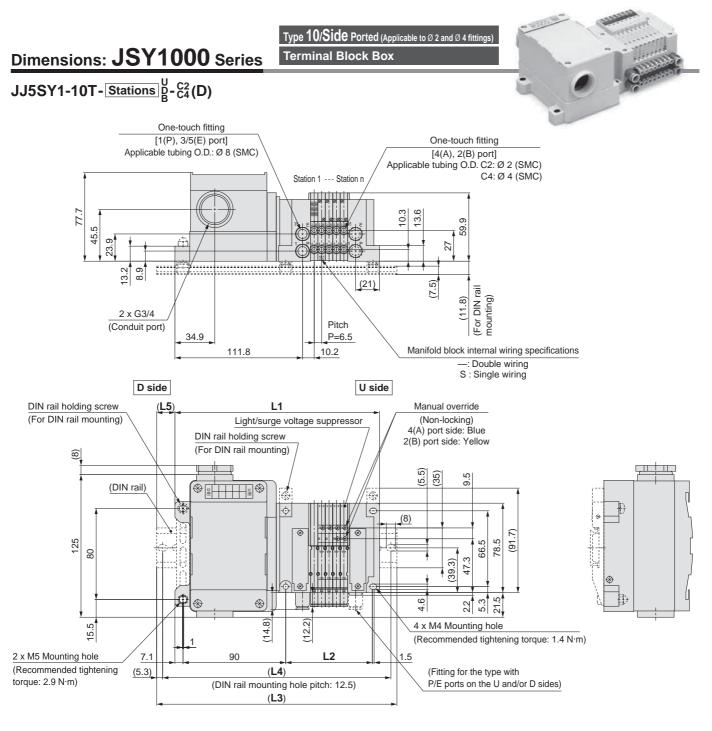


* These figures show the "JJ5SY5-10TC-05D-C12."

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

L: Dimensions

	u paye 3			еліента р	not (inaue	to Order)	and silen	CEI.								
L: Dimensions n: Stations													Fittings, Replacement Parts, Tools			
Ln	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Ē
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	o d
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	ion
L3	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	Manifold Options
L4	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	2 -
L5	16.5	14.5	13	17.5	15.5	14	12	16.5	15	13	17.5	16	14	12.5	17	8.
																le d
L	17	18	19	20	21	22	23	24								Made to Order
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								luct
L3	435.5	448	473	485.5	498	510.5	535.5	548	-							. Proc
L4	425	437.5	462.5	475	487.5	500	525	537.5								Specific Product Precautions
L5	15	13.5	18	16	14.5	12.5	17	15.5	-							S
							S	SMC	-						46	



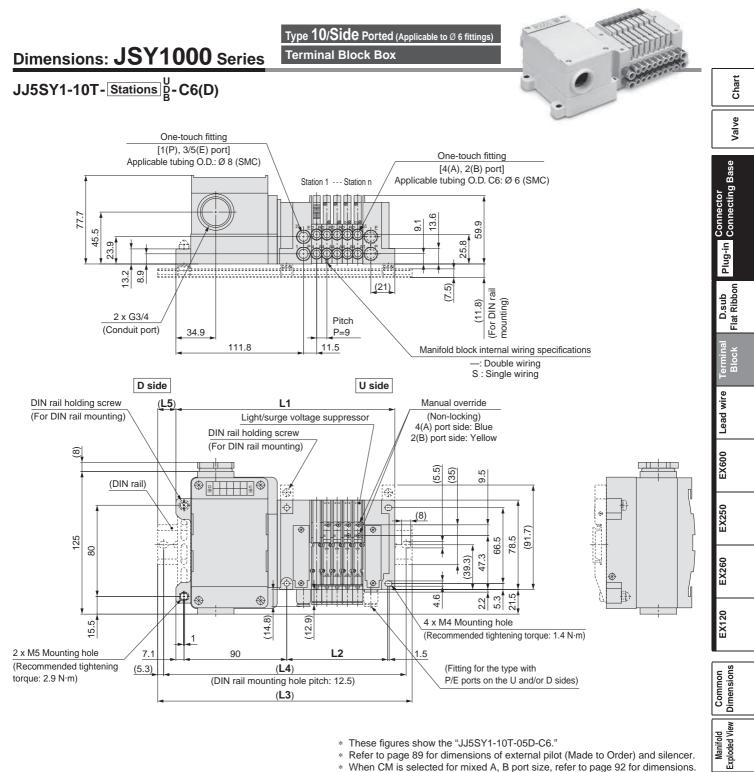
* These figures show the "JJ5SY1-10T-05D-C4."

 $\ast\,$ 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	nension	IS												r	n: 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

г/ /з	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



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

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

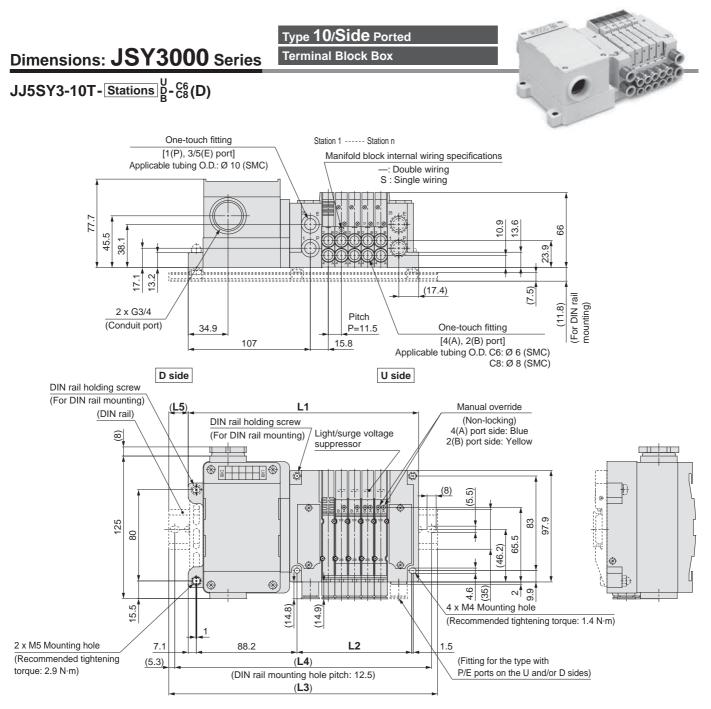
* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

							~~ V		S SEIECIEL		л, b рон	1 3126, 1616	i iu page	32 IUI UIII		
L: Dimensions												Fittings, Replacement Parts, Tools				
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
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	ρω
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	ii ol
L3	198	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323	Manifold Options
L4	187.5	187.5	200	212.5	225	225	237.5	250	250	262.5	275	287.5	287.5	300	312.5	2 -
L5	17	12	14	16	18	13	15	17	12	14	16	17	13	15	16	\$ L
∖ n	17	18	19	20												Made
	200.9	200.0	217.0	226.9	_											ΞŪ

L_L	17	18	19	20
L1	299.8	308.8	317.8	326.8
L2	196.4	205.4	214.4	223.4
L3	323	335.5	348	360.5
L4	312.5	325	337.5	350
L5	12	14	15	17

48

Specific Product Precautions

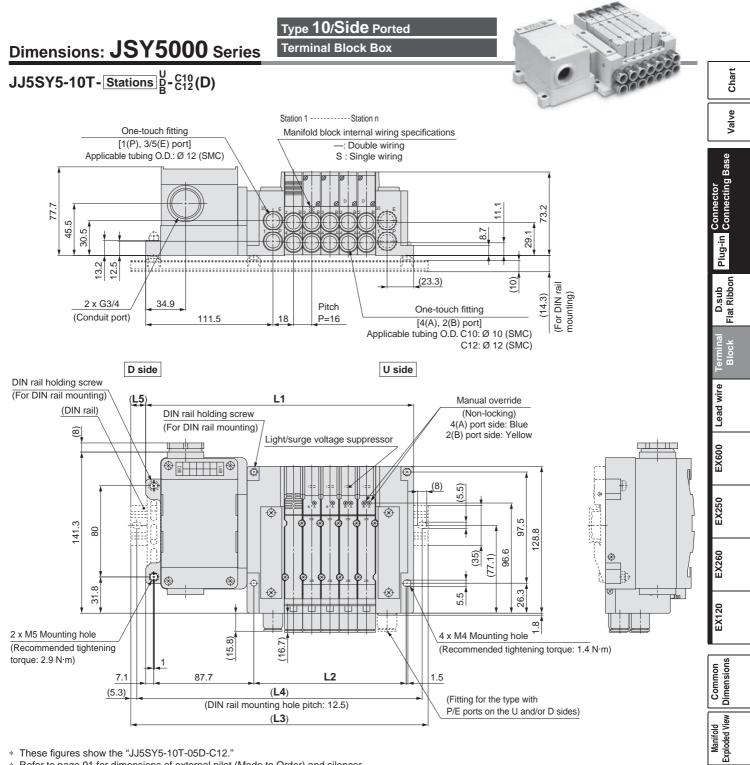


* These figures show the "JJ5SY3-10T-05D-C8."

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

L: Dim	L: Dimensions n: Stations														
L _ n	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	375	387.5	387.5
L5	17	17	18	12



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

L: Dim	ension	S												r	: Stations
L _ n	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

SMC

	17	18	19	20
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

50

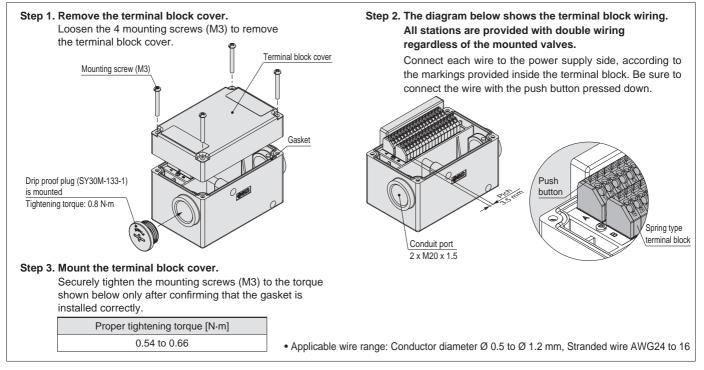
Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Specific Product Precautions

Spring Type Terminal Block "TC" Connection



Electrical Wiring Specifications (IP67 compliant)

	> >
$\mathbb{H}(\mathbb{D})$	
#((D)	
\$(CD	S(CD
	S D D
i (DV	
ECDN	
S(DN	
	F D D
	F D
s(CD 🛛	F D D
	B D D
20 0 N	
(5

If alignment is not specified, the internal wiring will be double wiring (connected to SOL. a and SOL. b) regardless of number of stations, valve types, and option types.

* When using a valve with no polarity, either positive common or negative common can be used.

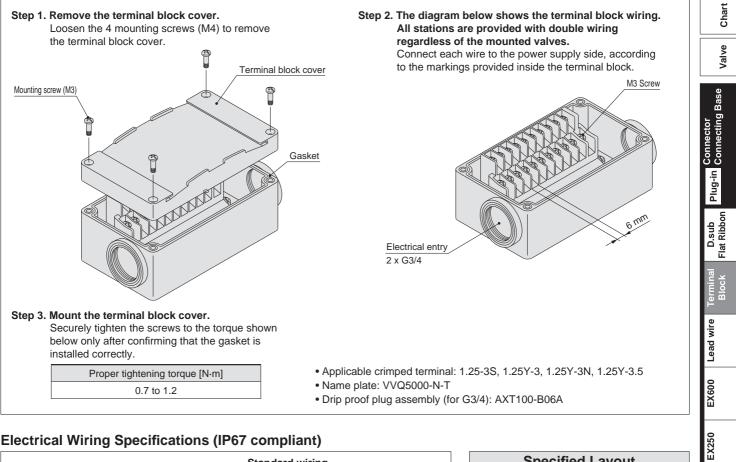
	Tar	minal n		lo ritu
CONTRACTOR SOL.		minal no	J. PC	larity
Station 1 { SOL.	<u>a</u> _0 h	1A	(–)	(+)
Solution Contraction SOL.	20	1B	(–)	(+)
Station 2 { SOL.	<u>a</u> _0 h	2A	(–)	(+)
SOL.	20	2B	(–)	(+)
Station 3 { Sol.		ЗA	(-)	(+)
Solution of Contraction SOL.		3B	(-)	(+)
Station 4 { SOL.		4A	(-)	(+)
SOL.		4B	(-)	(+)
Station 5 { SOL.		5A	(-)	(+)
SOL.		5B	(-)	(+)
Station 6		6A	(-)	(+)
SOL.	<u>~</u> 0 a	6B	(-)	(+)
Station 7 { SOL.	<u>u</u> o h	7A	(-)	(+)
SOL.		7B	(-)	(+)
Station 8 Sol.	<u>~</u> 0 b.	8A	(-)	(+) (+)
SOL.	a_	8B	(-)	(+) (+)
Station 9 { SOL.	b_	9A	(-)	(+) (+)
SOL.	a_	9B 10A	(-)	(+) (+)
Station 10 SOL.	b_		(-)	(+)
SOL.	a	10B	(-)	(+)
Station 11 SOL.	b	11A 11B	(-)	(+) (+)
SOL.	a	12A	(-)	(+)
Station 12 SOL.		12A 12B	(-) (-)	(+)
SOL.	a	126 13A	(-) (-)	(+)
Station 13 { SOL.	h	13A	(-) (-)	(+)
SOL.	a	14A	(-) (-)	(+)
Station 14 J SOL.	b	14B	(-)	(+)
SOL.	~	15A	(-)	(+)
Station 15 { SOL.	<u>b</u> _0	15B	(-)	(+)
SOL.	a_	16A	(-)	(+)
Station 16 Sol.	h	16B	(-)	(+)
	-	.00	()	. /
	-0	COM.	(+)	(-)
	-0	COM.	(+)	(-)
			Positive common	Negative common

Specified Layout

A mixture 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 32 or less. 1 solenoid is required for the 2-position single, and 2 solenoids for the 2-position double, 3-position, and 4-position.

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Terminal Block "T" Connection

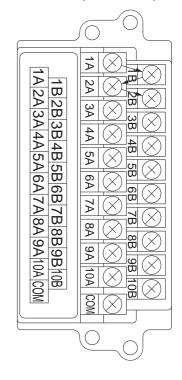


Electrical Wiring Specifications (IP67 compliant)

	Standard wiring	_
	Standard wiring	
	Terminal no. Polarity	
	Station 1 $\begin{cases} \underbrace{\text{SOL. a}}_{\text{SOL. b}} & 1A & (-) & (+) \\ \underbrace{\text{SOL. b}}_{\text{SOL. b}} & 1B & (-) & (+) \end{cases}$	
	$(- \frac{1}{1000000} \circ 1B (-) (+) (+) (- \frac{1}{10000000000000000000000000000000000$)
	Station 2	
	Station 3 SOL h	
	Station 4	
	Station 5 South South Station 5	
	() (+) SOL.a $(-)$ (+)	
	Station 6 { SOL. b 6B (-) (+)	
	$(SOL.a_{O}-7A_{O})$ (+)	
Ŭ	Station 7 SOL b 7B (-) (+)	
	$(SOL.a_{O} = 8A (-) (+)$	
If alignment is not specified, the	(-) (+))
internal wiring is double wiring (connected to SOL. a and SOL. b)	Station 9 $\begin{cases} SOL a \\ SOL b \\ $)
regardless of number of stations,	$(+ \cdots) = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =$)
valve and option types.	Station 10 { SOL. a 10A (-) (+))
)
	└────────────────────────────────────)
 When using a valve with no polarity, either positive 	Positive Negati	
common or negative common	common comm	
can be used.		

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.





EX260

EX120

Common Dimensions

Plug-in Connector Connecting Base

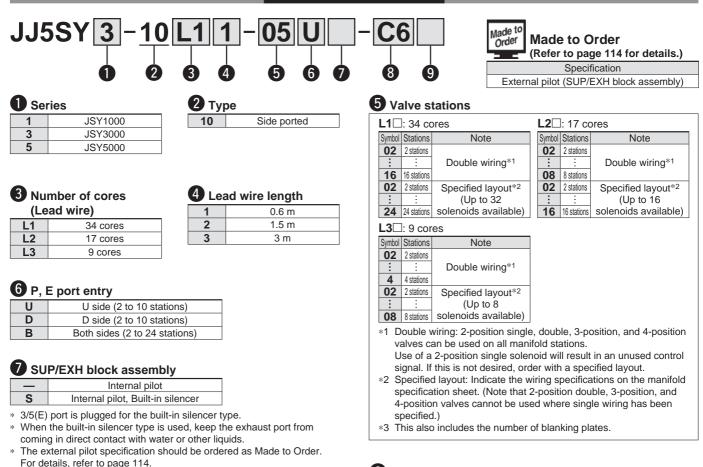
Lead Wire

Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



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

• <i>r</i> , ·										
Symbol		A, B port	JSY1000	JSY3000	JSY5000					
C2		Ø 2		—	_	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
C4		Ø 4		_	—					
C6	Ę	Ø 6			_					
C8	raig	Ø 8	—		—					
C10	Str	Ø 10	—	—						
C12		Ø 12	—	—		00				
CM *1		Straight port, mixed sizes				O res				
		port size uch fittings)	Ø 8	Ø 10	Ø 12					

*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

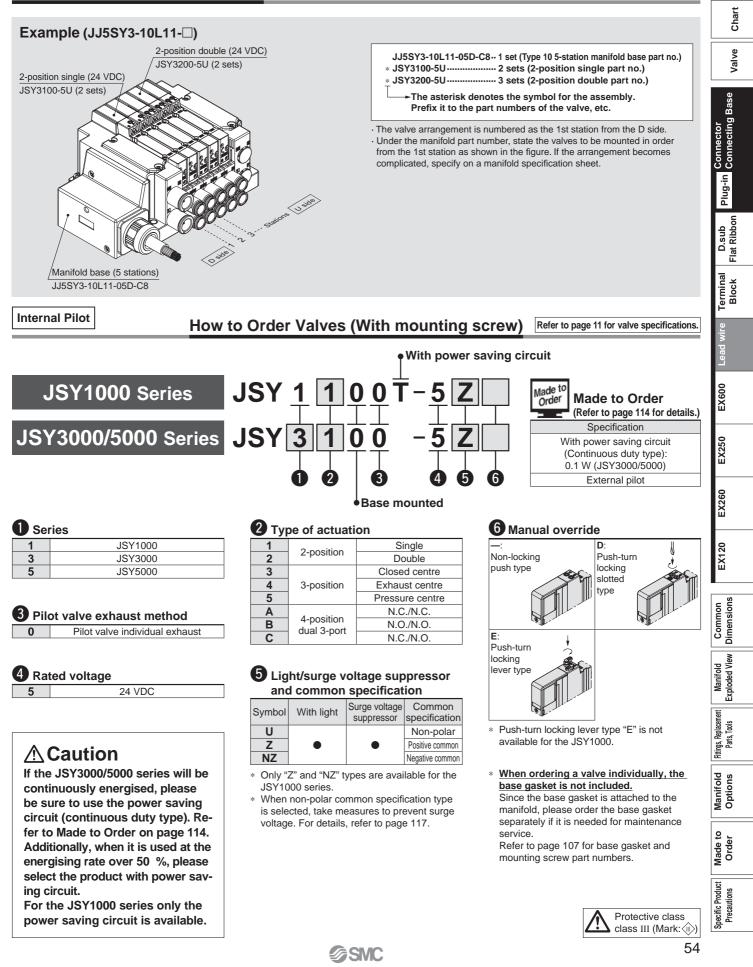
Symbol	Mounting
	Direct mounting
D	DIN rail mounting

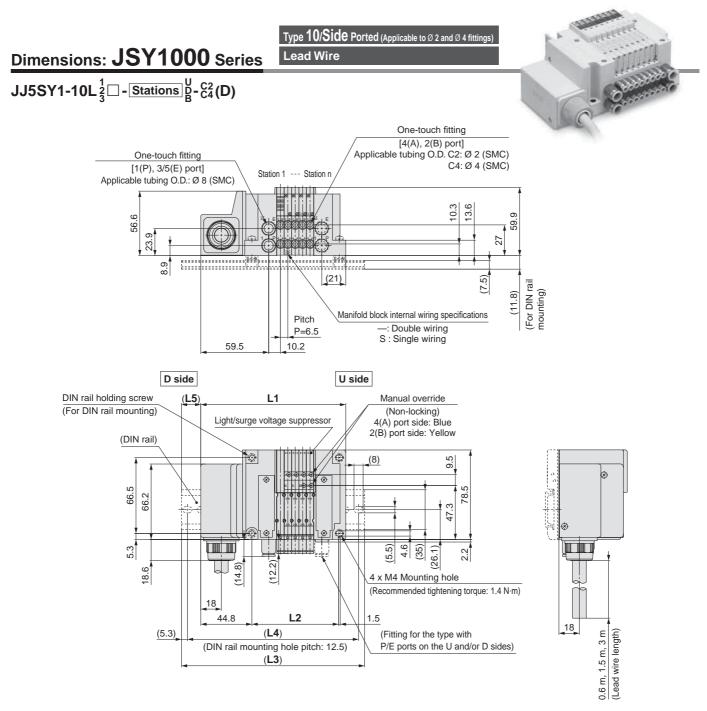
- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail mounting type manifold.

DIN Rail Option

—	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.						

How to Order Manifold Assembly



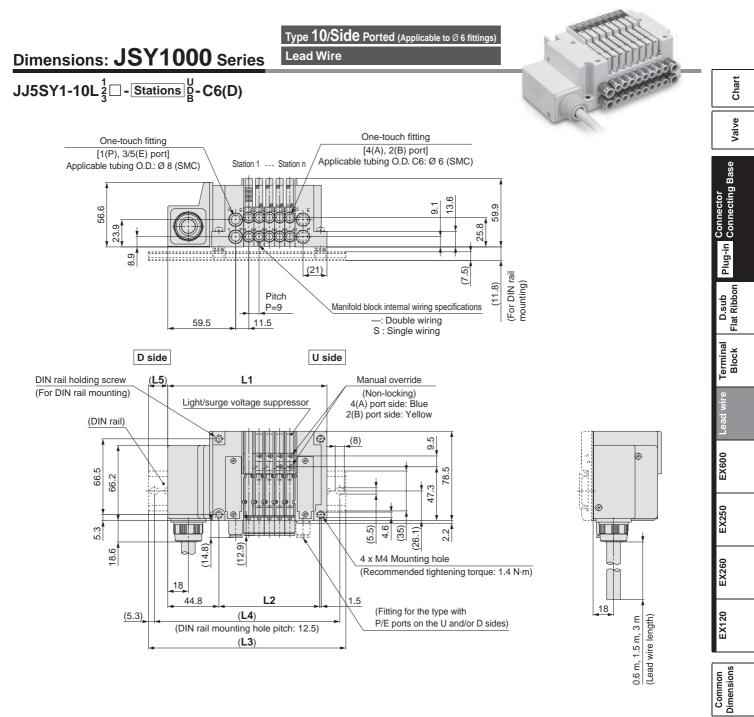


These figures show the "JJ5SY1-10L1□-05D-C4."

* 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														
	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	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							S	SMC							



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

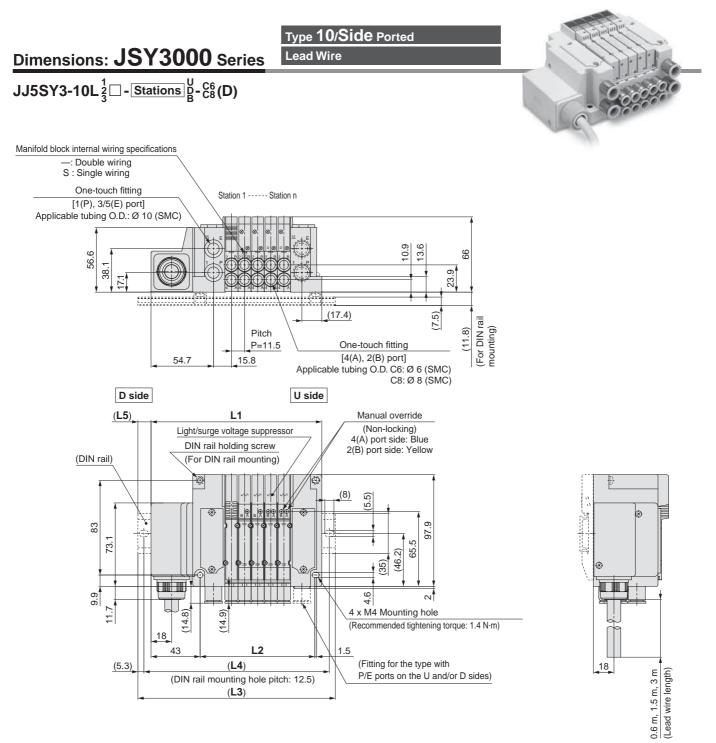
Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

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

L: Dim	ension	IS												r	n: Stations	Fittings, Replacement Parts, Tools
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittin
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	ρω
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	ion
L3	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	Manifold Options
L4	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250	262.5	2 -
L5	18	13.5	15	17	12.5	14	16	17.5	13	15	16.5	12	14	15.5	17.5	\$ L
	47	40	40		04											Made to Order
L	17	18	19	20	21	22	23	24								Ō
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								luct
L3	273	285.5	298	298	310.5	323	335.5	335.5								ecific Produ Precautions
L4	262.5	275	287.5	287.5	300	312.5	325	325								Specific Product Precautions
L5	13	14.5	16.5	12	13.5	15.5	17	12.5								ŝ
							S	SMC							56	

Exploded View

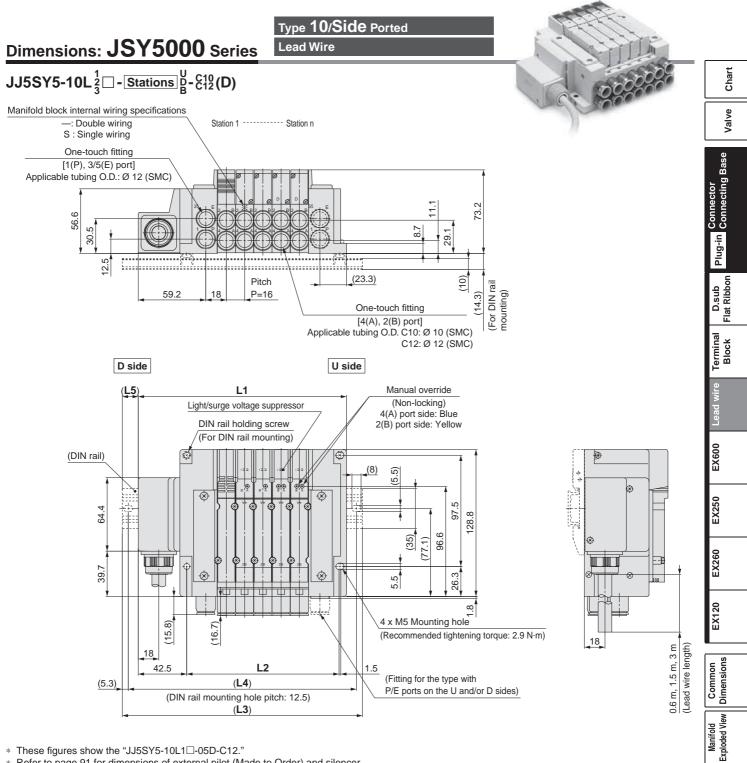
Manifold



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

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

L: Dim	ensior	IS												r	n: Stations
L	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
\sim n	17	18	19	20	21	22	23	24							
	1/	1 10	19	20			1.0	/4							
L1	287.6	299.1	310.6	322.1	333.6	345.1	23 356.6	24 368.1							
							-								
L1	287.6	299.1	310.6	322.1	333.6	345.1	356.6	368.1							
L1 L2	287.6 238.6	299.1 250.1	310.6 261.6	322.1 273.1	333.6 284.6	345.1 296.1	356.6 307.6	368.1 319.1							
L1 L2 L3	287.6 238.6 323	299.1 250.1 323	310.6 261.6 335.5	322.1 273.1 348	333.6 284.6 360.5	345.1 296.1 373	356.6 307.6 385.5	368.1 319.1 398							



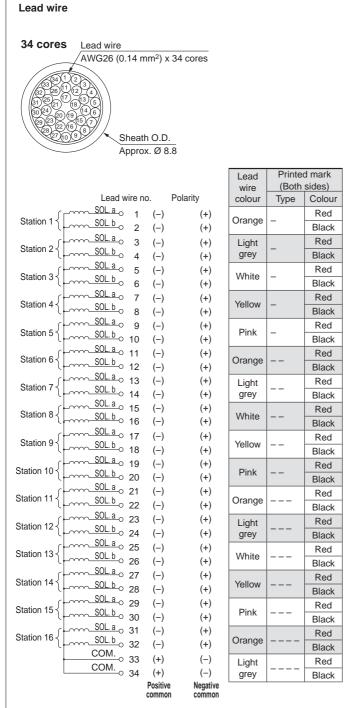
* These figures show the "JJ5SY5-10L1□-05D-C12."

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

I · Dimensions

	u paye 9		1210112 01 6	external p	not (iviaue	to Order)	and silen	uer.								
L: Dim	ension	IS		-	-									r	n: Stations	Fittings, Replacement Parts, Tools
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Täi
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	s d
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	ion
L3	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398	Manifold Options
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	<u>ی</u> د
																e e
Ln	17	18	19	20	21	22	23	24								Made to Order
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								luct
L3	410.5	423	435.5	460.5	473	485.5	510.5	523								ecific Produ Precautions
L4	400	412.5	425	450	462.5	475	500	512.5								Specific Product Precautions
L5	18	16.5	14.5	19	17.5	15.5	20	18.5								ŝ
							S	SMC	-						58	

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.

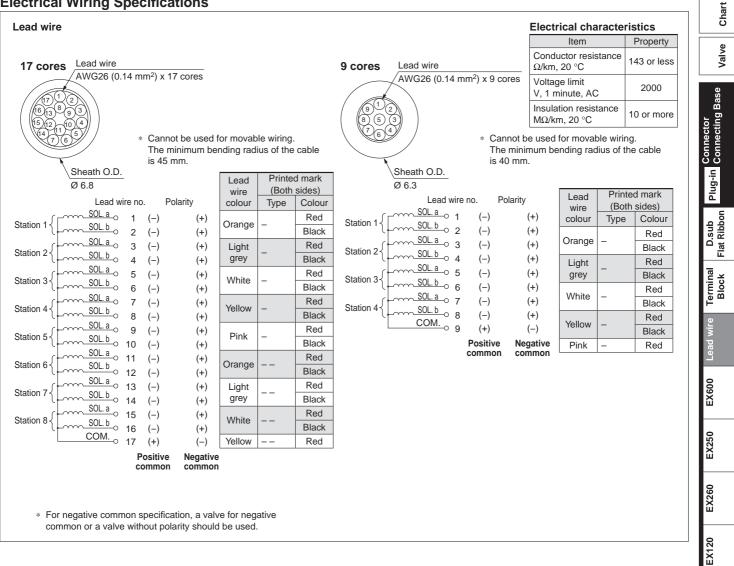
Electrical characteristics

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



SMC

Common Dimensions

Exploded View Manifold

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Specific Product Precautions

Plug-in Connector Connecting Base

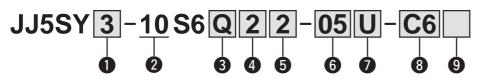
EX600

Type 10 Side Ported

JSY100/3000/5000 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	DeviceNet [™] (Version A)						
Ν	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 base ^{*1}						
WF	PROFINET compatible wireless base*1						
WS	Wireless remote*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	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.

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

JSY1000 JSY3000 JSY5000 Symbol A, B port C2 Ø2 C4 Ø 4 C6 raight Ø6 Ø 8 **C8** • Str Ø 10 C10 C12 Ø 12 **CM***1 Straight port, mixed sizes 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

SI unit output polarity, End plate type (Part no.)

	ic typ			
SI unit output	M12 power supply	7/8 inch	M12 power su IN/OUT,	pply connector A-coded
polarity	connector B-coded (EX600-ED2)	power supply connector (EX600-ED3)	Pin arrangement 1 (EX600-ED4)	Pin arrangement 2 (EX600-ED5)
Without SI unit		_	_	
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.

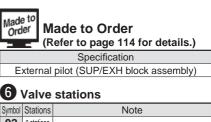
Without SI unit, the symbol is —.

5 I/O unit stations

-	
_	None
1	1 station
:	
9	9 stations

Without SI unit, the symbol is –

- * 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.



Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	
02	2 stations	Creatined layout*2
:		Specified layout*2 (Up to 32 solenoids available)
24	24 stations	(Op to 32 soleriolds 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.

9 Mounting and Option

Symbol	Mounting
—	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

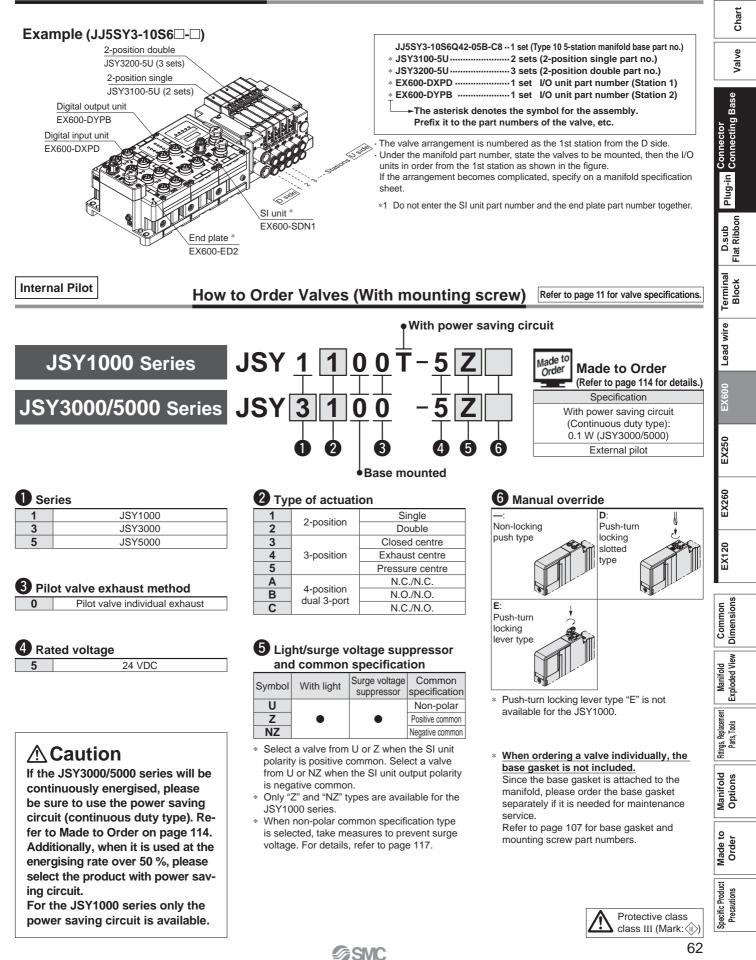
Dirit itan	option	
_	DIN rail n	nounting (With DIN rail)
0	DIN rail m	nounting (Without DIN rail)
3	For 3 stations	
:		Specify a longer rail than the standard length.
24	For 24 stations	the standard length.

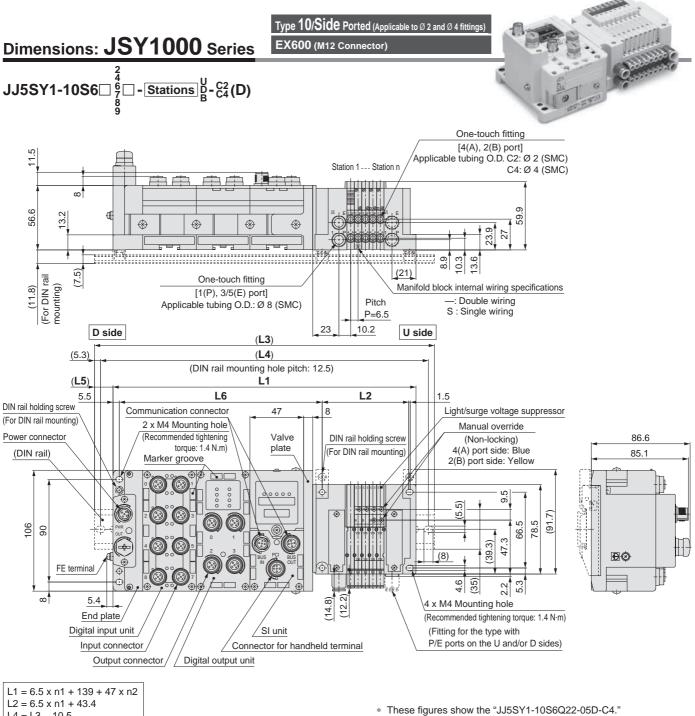
* If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 110 for the DIN rail part number.)

For details about the EX600 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalogue 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, https://www.smc.eu

selected fitting.

How to Order Manifold Assembly





L2 = 6.5 x n1 + 43.4 L4 = L3 - 10.5 L5 = (L3 - L1) / 2L6 = 47 x n2 + 83.8

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.

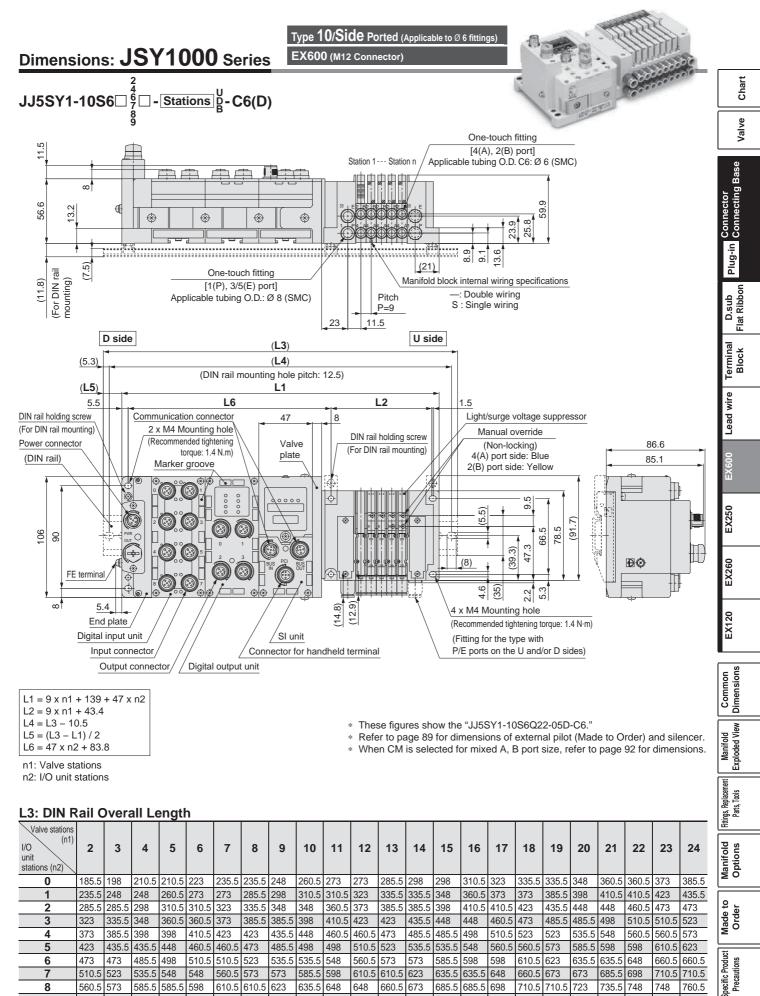
n1: Valve stations n2: I/O unit stations

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	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

SMC





SMC

648

660.5 673

710.5 723 685.5

723

685.5 698

748

560.5 573

610.5 623

8

9

585.5

635.5 648

598

610.5 610.5

660.5 660.5 673

623

635.5 648

685.5 685

585.5

623

760.5

735.5 748

785.5 785.5

710.5 710.5

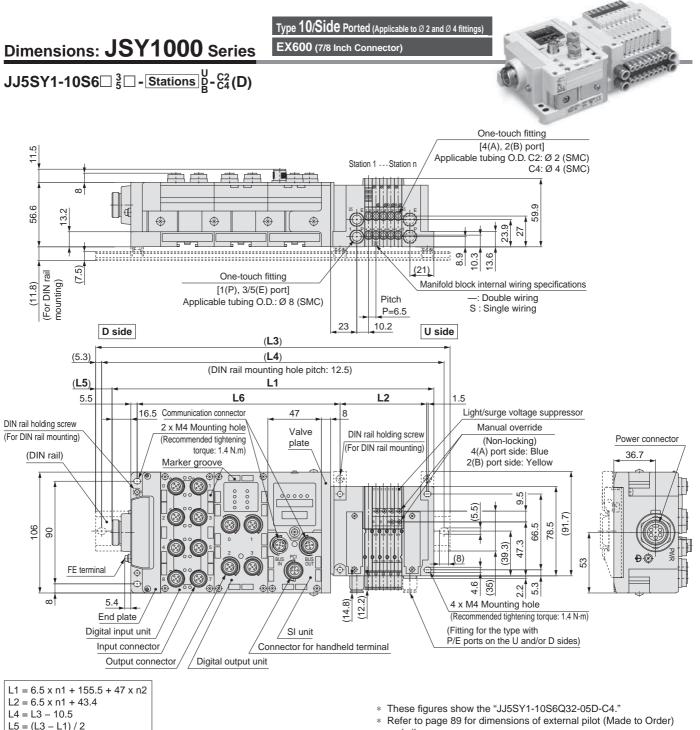
760.5 773

748

723

748

798



L6 = 47 x n2 + 83.8

n1: Valve stations

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.

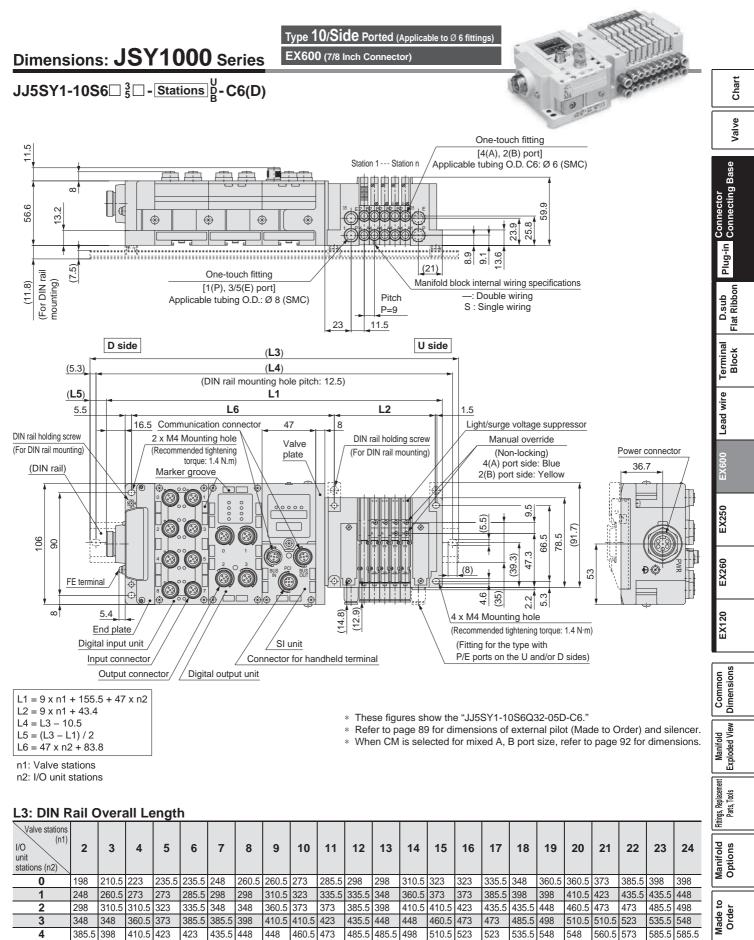
n2: I/O unit stations

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	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







523

560.5 573

610.5 623

660.5 673

710.5

548

635.5 648

685.5 698

735.5 748

560.5

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560.5 573

660.5 673

710.5

748

610.5 623

710.5 723

760.5 773

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660 5 660 5

710.5 723

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810.5

623

673

810.5 823

535.5

585.5 598

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673

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448

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573

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485.5 498

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5

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9

460.5

560.5 573

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473

610.5 623

660

460.5

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485.5 498

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685.5 698

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598

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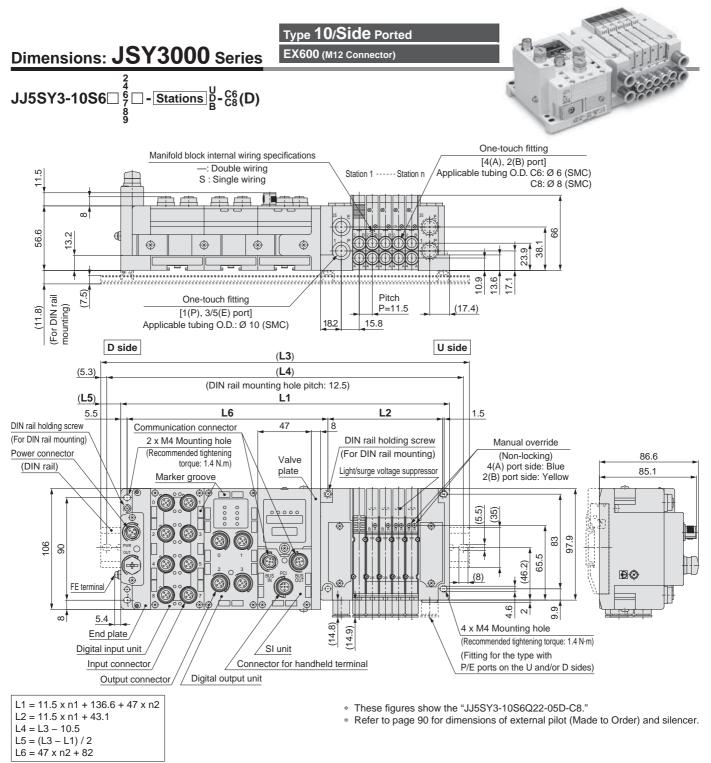
Specific Product

Precautions

635.5

685.5

735.5

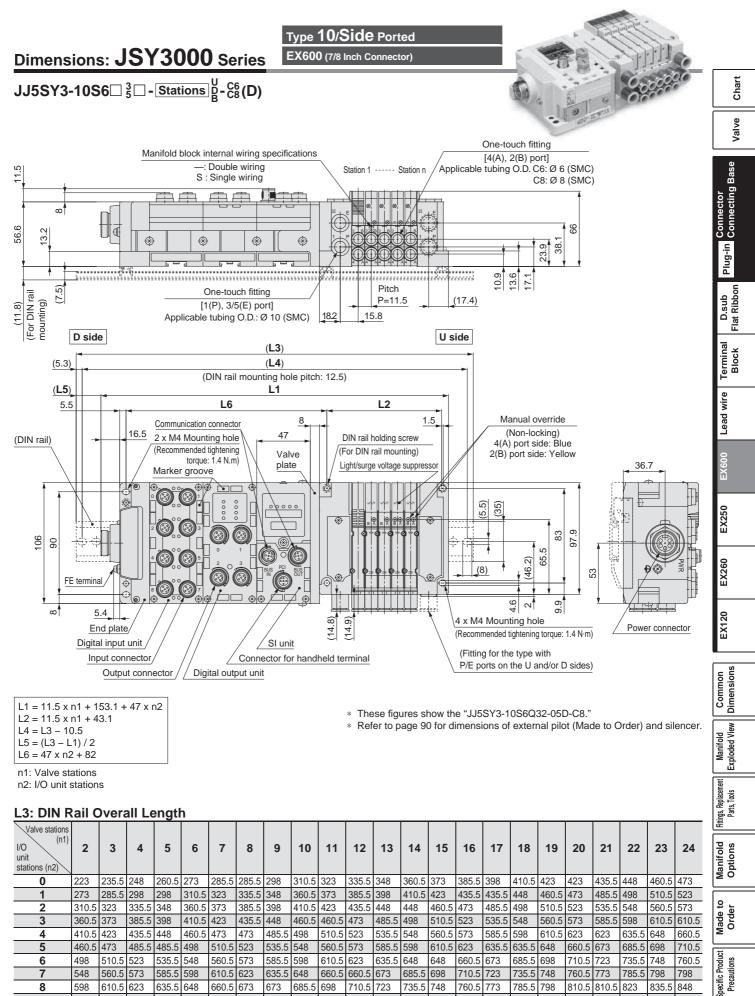


n1: Valve stations n2: I/O unit stations

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	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







710.5 723

773

685.5 698

735.5

785.5 798

748

710.5 723

760.5 773

810.5 823 760.5 773

810.5 810.5

860.5 873

785.5 798

835.5 848

823

785.5 798

823

660.5 660.5 673

698

685.5

735.5 748

7

8

9

548

598

648

560.5 573

610.5

660.5 673

623

585.5 598

635.5 648

685.5 685 610.5 623

660.5 673

710.5 723

698

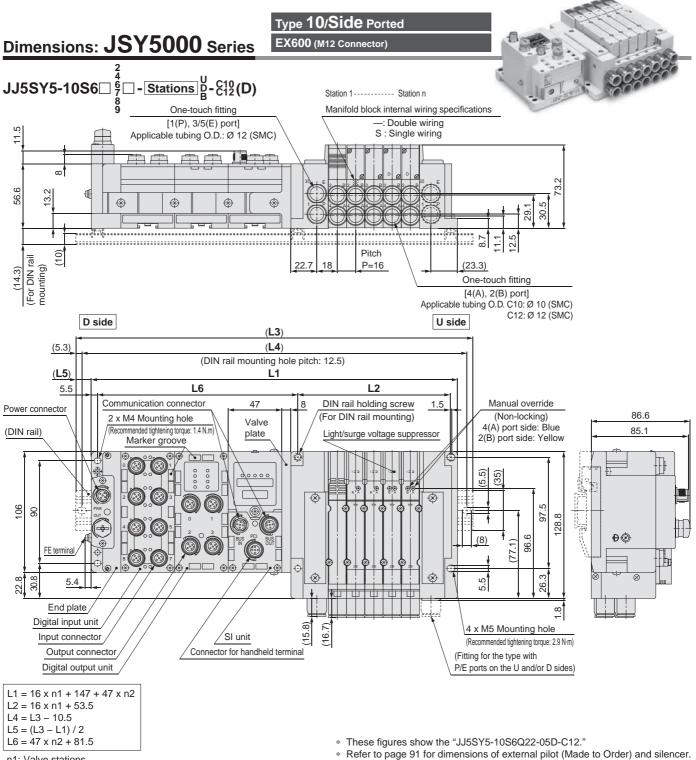
635.5 648

673

848

835.5

885.5 898



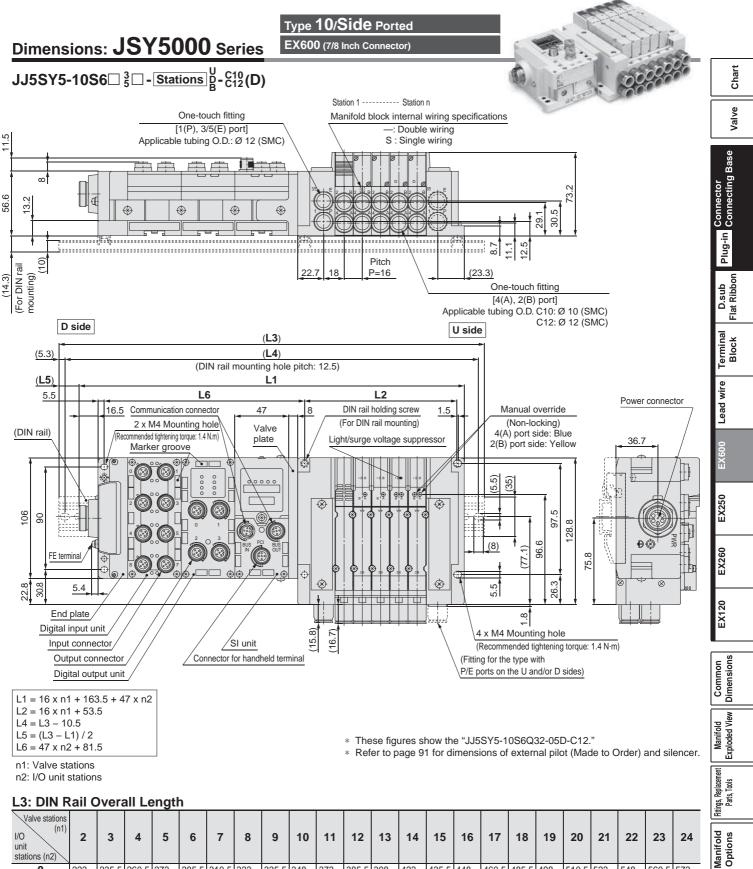
n1: Valve stations n2: I/O unit stations *

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	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





u	O nit tations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Manifold Options
	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	20
	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	er er
	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	Made to Order
	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	Product utions
	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	ic Pr auti
	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	Specific Precau
	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	—	S



Plug-in Connector Connecting Base

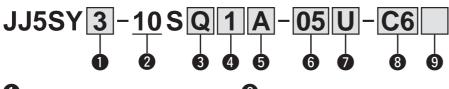
EX250

Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



Series

1	JSY1000
3	JSY3000
5	JSY5000

3 SI unit

	~			
0	Without SI unit			
Q	DeviceNet [™] (Negative common)			
Ν	PROFIBUS DP (Negative common)			
TA	AS-Interface (Negative common)		8 in/8 out, 31 slave modes	
TB			4 in/4 out, 31 slave modes	
TC		1 common type	8 in/8 out, 31 slave modes	
TD			4 in/4 out, 31 slave modes	
Y	CANopen (Negative common)			
ZE	EtherNet/IP™ (Negative 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.

2 Type

The input block stations		
—	None	
1	1 station	
:	:	
8	8 stations	

Side ported

* Without SI unit, the symbol is ---.

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

5 Input block type

	PNP sensor input	NPN sensor input
Without input block	-	_
M12, 2 inputs	А	D
M12, 4 inputs	В	E
M8, 4 inputs	С	F
		-

SMC

* Without SI unit, the symbol is -

P, E port entry, SUP/EXH block assembly

Internal pilot	Internal pilot, Built-in silencer
U	С
D	E
В	F
	Internal pilot U D B

* 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.

8 A, B port size (Metric/One-touch fitting)						
Symbol			JSY1000	JSY3000	JSY5000	
C2		Ø 2		—	—	
C4		Ø 4		—	—	
C6	aight	Ø 6			—	
C8	raic	Ø 8	—		—	
C10	Str	Ø 10	—	—		
C12		Ø 12	—	—		00
CM *1		Straight port, mixed sizes				O tor
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12		

*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 Catalogue 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, https://www.smc.eu

Made to Order Order (Refer to page 114 for details.)
Specification
External pilot (SUP/EXH block assembly)
6 Valve stations

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring ^{*1}	
16	16 stations		
02	2 stations	(Up to 32 solenoids available)	
:			
24	24 stations		

- *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.) 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

• ····································			
Mounting			
Direct mounting			
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 (D□) is not available for the product without the SI unit (S0).

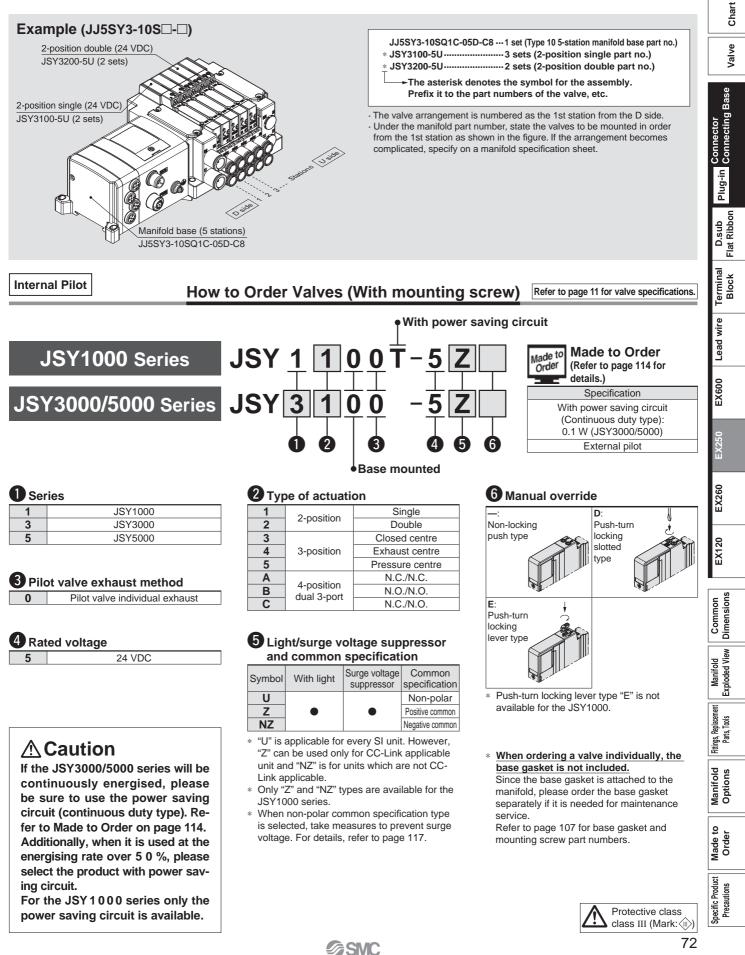
DIN Rail Option

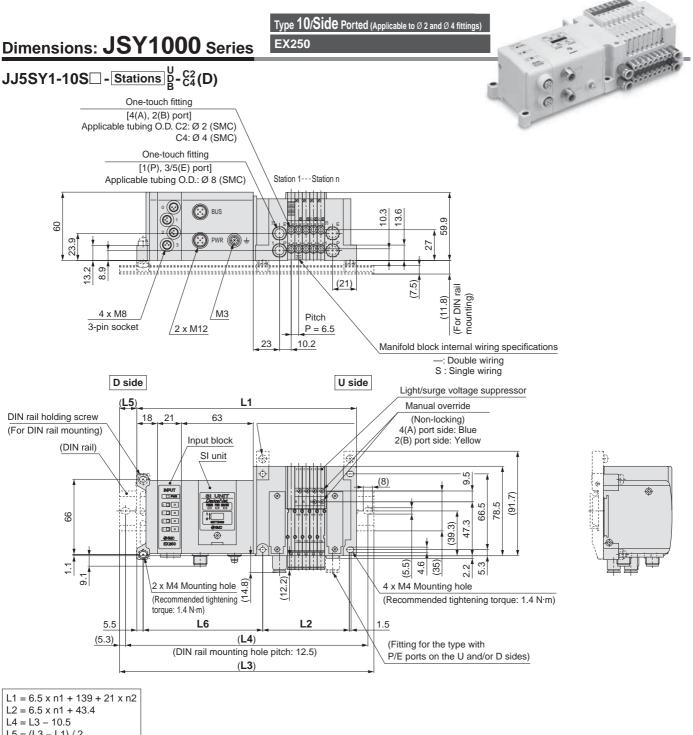
—	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations			
:	:	Specify a longer rail that the standard length.		
24	For 24 stations	line standard length.		

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

71

How to Order Manifold Assembly





L5 = (L3 - L1) / 2L6 = 21 x n2 + 83.8

n1: Number of valve stations of the JSY1000 n2: Input block stations * These figures show the "JJ5SY1-10SQ1A-05D-C4."

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

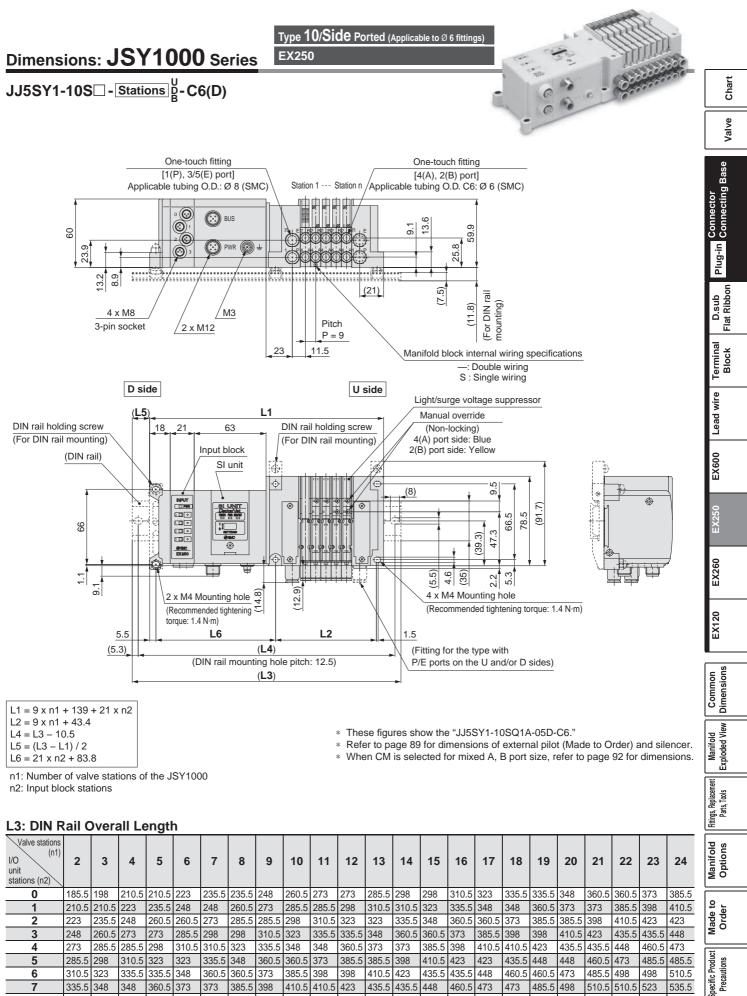
* When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L3: DIN Rail Overall Length

Valve station 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	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



Elugin Connector Connecting Base JSY1000/3000/5000 Series





435.5 448

460.5 473

435.5

448

473

473

498

460.5

485.5 485.

410.5

423

410.5 423

435.5

385.5

410.5 423

398

335.5 348

360.5 360.5

7

8

348

373

360.5

385.5 385

373

373

398

535.5

548

510.5

523

485.5 498

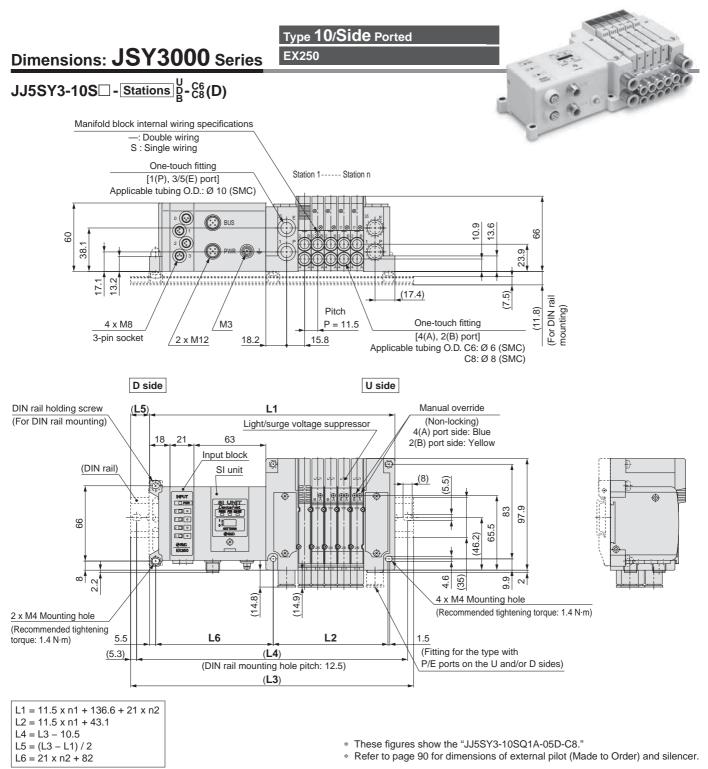
510.5

510.5

510.5

535.5 548

523



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

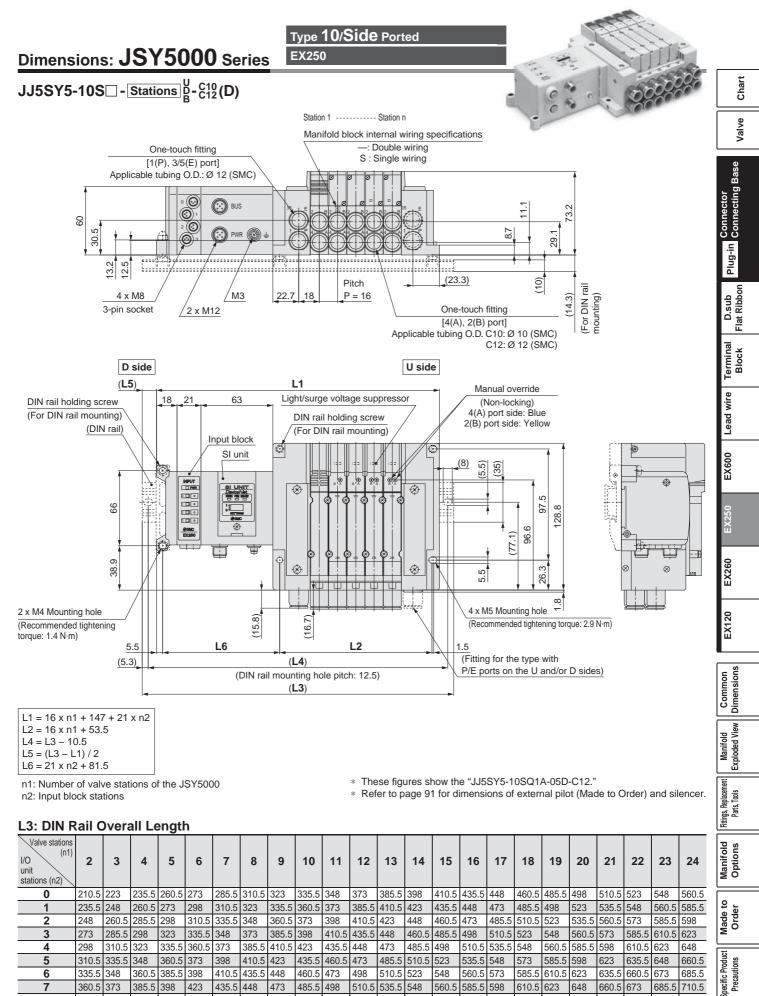
L3: DIN Rail Overall Length

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

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Elugin Connector Connecting Base JSY1000/3000/5000 Series



510.5

548

573

560.5

585.5

585.5 598

610.5

535.5

548

610.5

635.5 648

623

648

660.5 673

660.5 685.5 698

448

473

435.5

460.5 473

360.5

373 398

373

7

8

398

423

435.5

385.5

410.5 423

485.5

485.5 510.5

498

710.5

685.5

710.5 723

Plug-in Connector Connecting Base

EX260

JSY1000/3000/5000 Series RoHS

Internal Pilot

Type 10 Side Ported

How to Order Manifolds

Side ported

U side (2 to 10 stations)

D side (2 to 10 stations)

Both sides (2 to 24 stations)

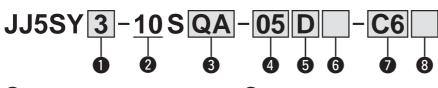
Internal pilot

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



2 Туре

5 P, E port entry

6 SUP/EXH block assembly

with water or other liquids.

10

U D

В

S

type

to page 114.

A Cario

U Ser	les
1	JSY1000
3	JSY3000
5	JSY5000

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

communication connectory											
\vdash	tput polarity)		Number	Communication							
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	connector							
0	()	Without									
		vvitriout									
QA	QAN	DeviceNet™	32	M12							
QB	QBN	Devicertet	16								
NA	NAN		32	M12							
NB	NBN	PROFIBUS	16								
NC	NCN	DP	32	*3							
ND	NDN		16	D-sub							
VA	VAN	CC-Link	32	M12							
VB	VBN	CC-LINK	16								
DA	DAN	EtherCAT	32	M12							
DB	DBN	EtherCAT	16								
FA	FAN	PROFINET	32	M12							
FB	FBN	FROFINET	16								
EA	EAN	EtherNet/IP™	32	M12							
EB	EBN		16								
*2	GAN	Ethernet	32	M12							
*2	GBN	POWERLINK	16								
*2	KAN	IO-Link	32*4	M12							

- *1 Without SI unit, the output polarity is decided 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.
 *4 Only the 32 outputs type is available.

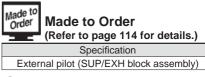
A, B port size (Metric/One-touch fitting)

Symbol A B port JSY1000 JSY3000 JSY5000

Symbol		A, D port	3011000	3313000	3013000	
C2		Ø 2		_	_	
C4		Ø 4		—	—	
C6	ght	Ø 6			—	
C8	lai.	Ø 8	—		—	
C10	5	Ø 10	—	—		
C12		Ø 12	—	—		00
CM *1		Straight port, mixed sizes				Orton
		port size uch fittinas)	Ø 8	Ø 10	Ø 12	

- *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 Catalogue 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, https://www.smc.eu



4 Valve stations

In the	In the case of the 32-output SI unit												
Symbol	Stations	Note											
02	2 stations												
:	÷	Double wiring ^{*1}											
16	16 stations												
02	2 stations	0											
:	:	Specified layout ^{*2} (Up to 32 solenoids available)											
24	24 stations												

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
08	8 stations	
02	2 stations	Creation law out *?
:	:	Specified layout*2 (Up to 16 solenoids available)
16	16 stations	(Op to To soleriolds 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 layout is specified, indicate it on the manifold specification sheet.

8 Mounting and Option

Symbol	Mounting
—	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).

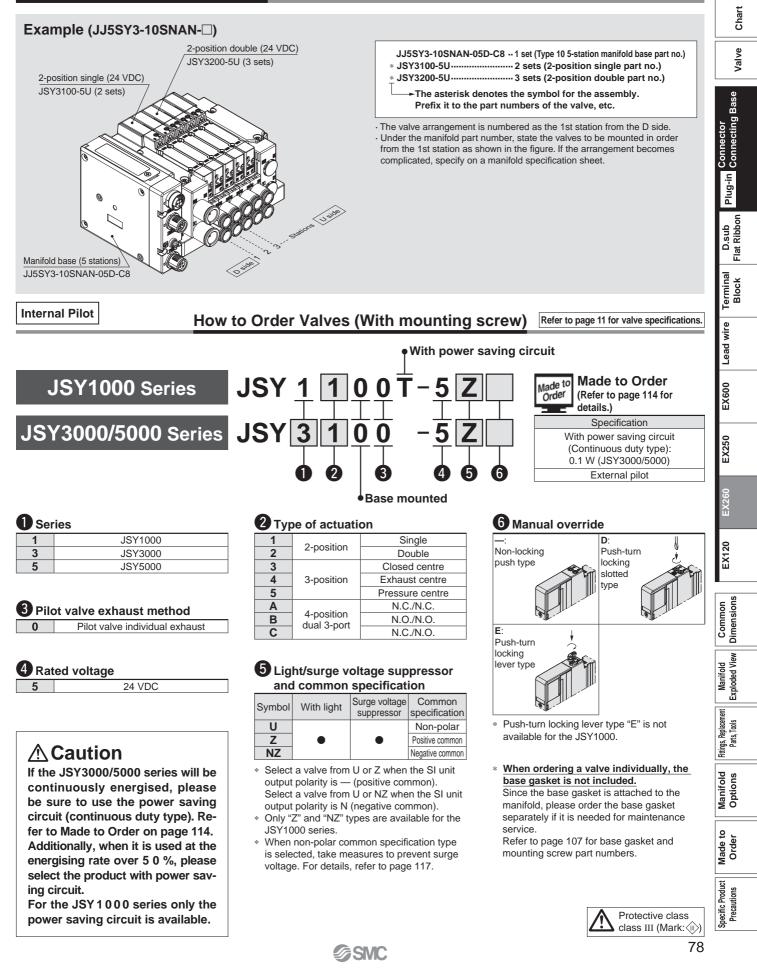
DIN Rail Option

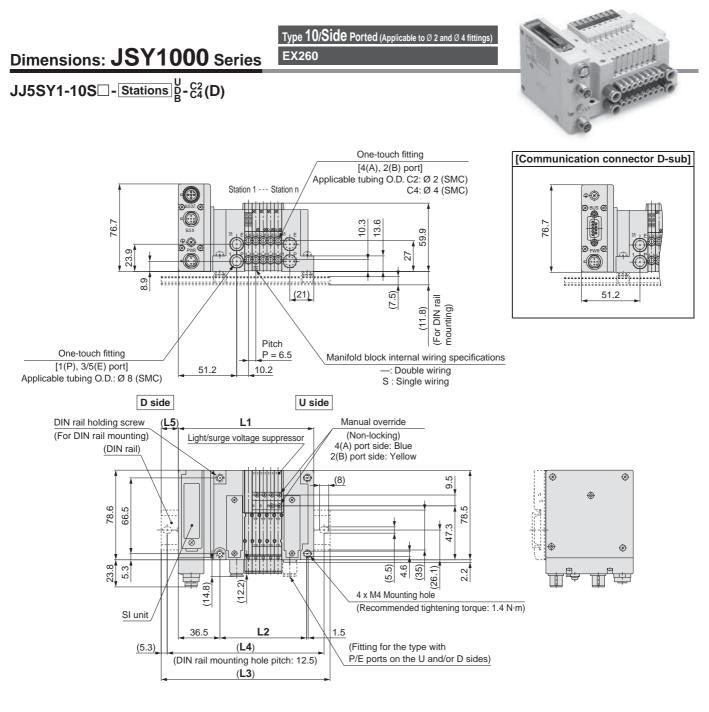
_	DIN ra	il mounting (With DIN rail)								
0	DIN rail	mounting (Without DIN rail)								
3	For 3 stations									
:	:	Specify a longer rail than the standard length.								
24	For 24 stations	ns the standard length.								

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



How to Order Manifold Assembly





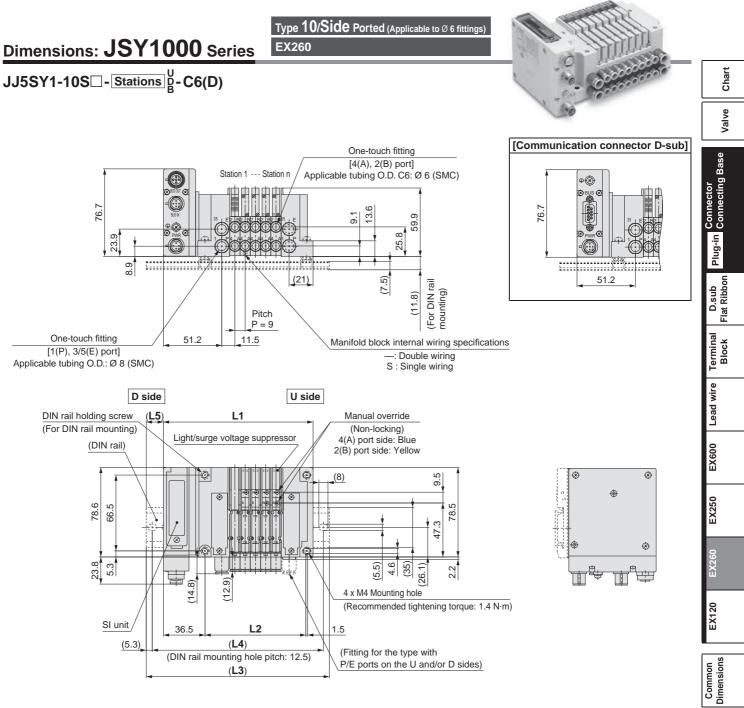
* These figures show the "JJ5SY1-10SQA-05D-C4."

* 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: Dimensions															n: Stations
L	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								

Ellerin 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.

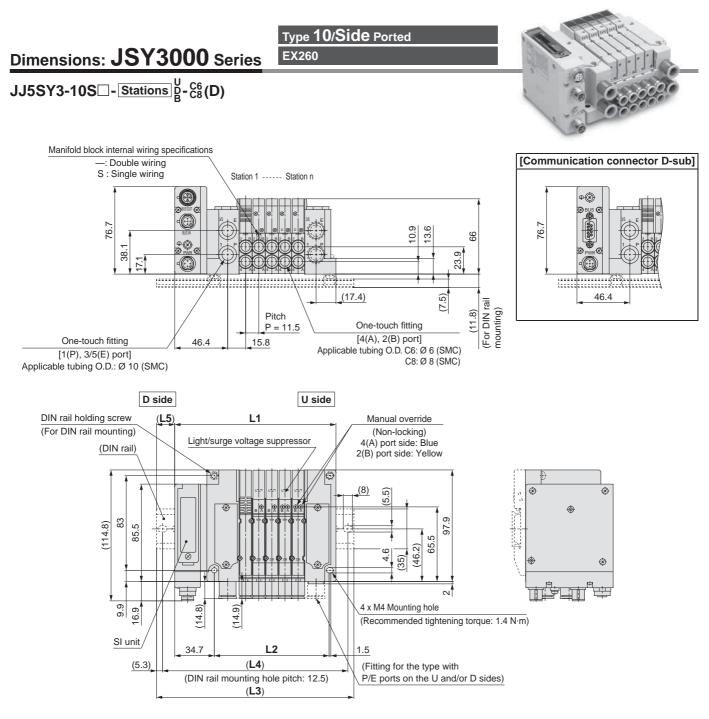
 $\ast\,$ When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

I · Dim	_: Dimensions n: Stations															Fittings, Replacement Parts, Tools
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fittings Pa
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	b 0
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	Manifold Options
L3	135.5	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	Man Opt
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
L	17	18	19	20	21	22	23	24								Made to Order
L1	239.2	248.2	257.2	266.2	275.2	248.2	293.2	302.2								2
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4								luct s
L3	273	273	285.5	298	310.5	310.5	323	335.5								ecific Produ Precautions
L4	262.5	262.5	275	287.5	300	300	312.5	325								Specific Product Precautions
L5	17	13	14	16	18	13	15	17								Ś
															00	

SMC

Exploded View

Manifold

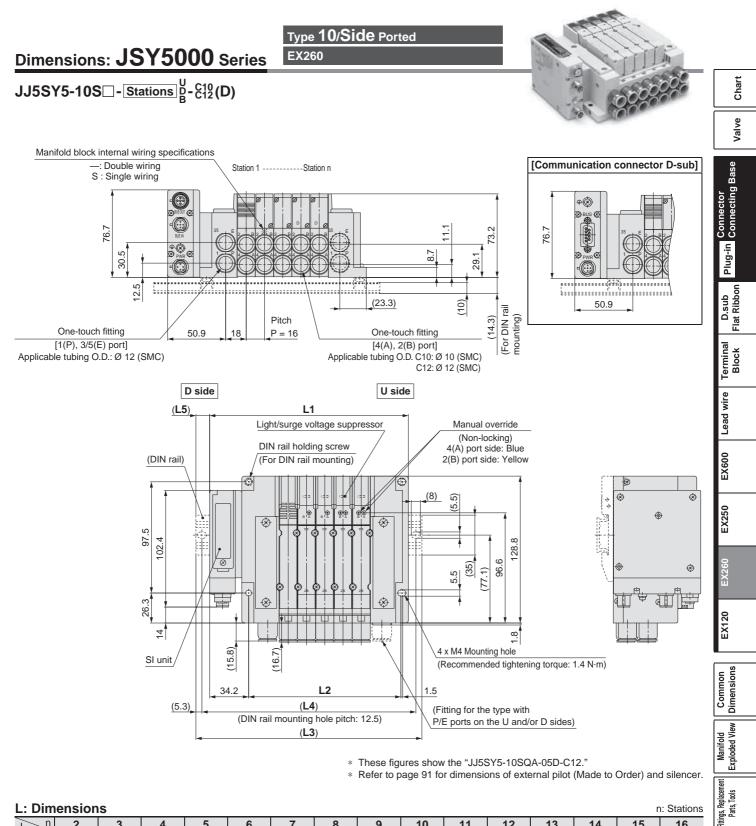


* These figures show the "JJ5SY3-10SQA-05D-C8."

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

L: Dim	ension	S										r	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
∖ n	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							SMC								

Elugin Connector Connecting Base JSY1000/3000/5000 Series



L: Dim	ension	IS												r	n: Stations	Fittings, Replac Parts, Too
_L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Fitir
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	o d
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	ifol
L3	160.5	173	185.5	198	223	235.5	248	273	285.5	298	310.5	335.5	348	360.5	385.5	Manifold Options
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	_ 2
	47	40	40	00	04			04								Made to Order
L n	17	18	19	20	21	22	23	24								o Aa
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								luct s
L3	398	410.5	423	448	460.5	473	485.5	510.5								: Proc
L4	387.5	400	412.5	437.5	450	462.5	475	500								Specific Product Precautions
L5	16	14	13	17	15	14	12	16								s
							-		•						00	

SMC

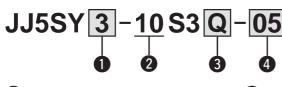
82

Plug-in Connector Connecting Base

JSY100/3000/5000 Series

Internal Pilot

How to Order Manifolds



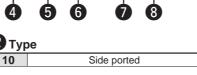
Series

Control										
1	JSY1000									
3	JSY3000									
5	JSY5000									

3 SI unit

0	Without SI unit											
Q	DeviceNet [™] (Positive common NPN)											
R1	OMRON CompoBus/S	16 outputs										
R2	(Positive common NPN)	8 outputs										
V	CC-Link (Positiv	e common NPN)										
ZB *1	CompoNet™	Positive common NPN										
ZBN *1	Componet	Negative common PNP										

- *1 The communication connector (for the opposite side) is not provided. Please order it separately.
- * Ensure a match with the common specification of the valve to be used.



5 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 16 stations)

6 SUP/EXH block

—	Internal pilot									
S	Internal pilot, Built-in silence									

- 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.

Made to Order Order (Refer to page 114 for details.)												
	Specification											
E	xternal	pilot (SUP/EXH block assembly)										
Valve stations Symbol Stations Note												
02	2 stations											
:	:	Double wiring*1										
08	8 stations	5										
02	2 stations											
:	:	Specified layout*2										
16	16 stations	(Up to 16 solenoids available)										
*1 D	ouble v	viring: 2-position single, double,										

- *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.
- 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) Symbol A, B port JSY1000 JSY3000 JSY50

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø 2		—	—	
C4		Ø 4		—	—	
C6	aight	Ø 6			—	
C8		Ø 8	_		—	
C10	ß	Ø 10	_	—		
C12		Ø 12	_	—		00
CM *1		Straight port, mixed sizes				Oktor
		port size uch fittings)	Ø 8	Ø 10	Ø 12	

*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
—	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 1 1 8 for the fixation of DIN rail mounting type manifold.

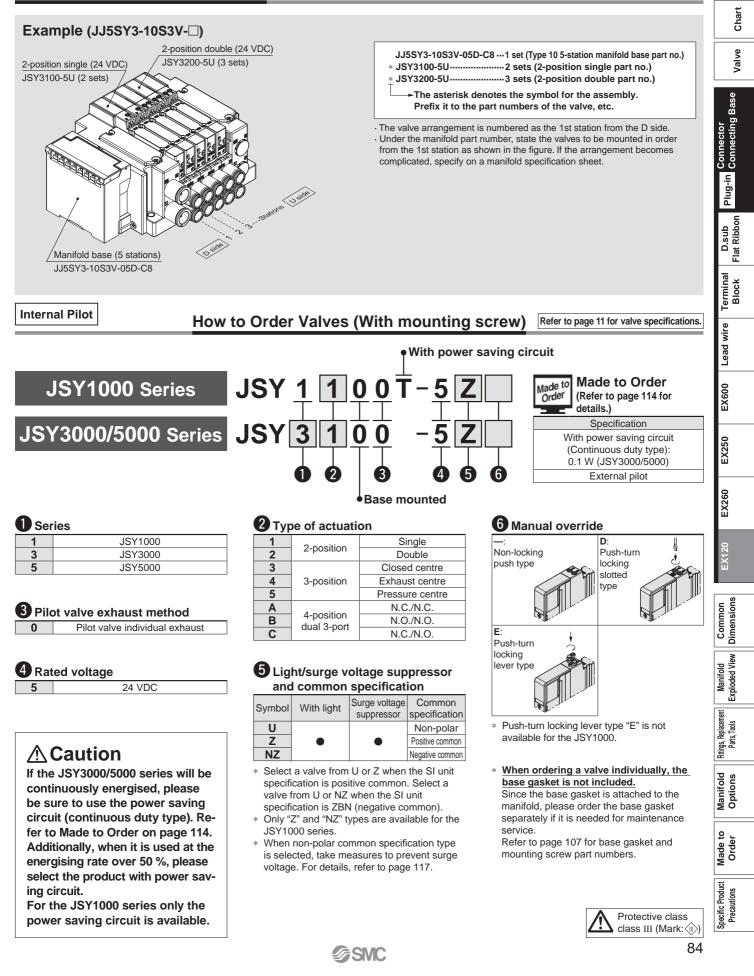
DIN Rail Option

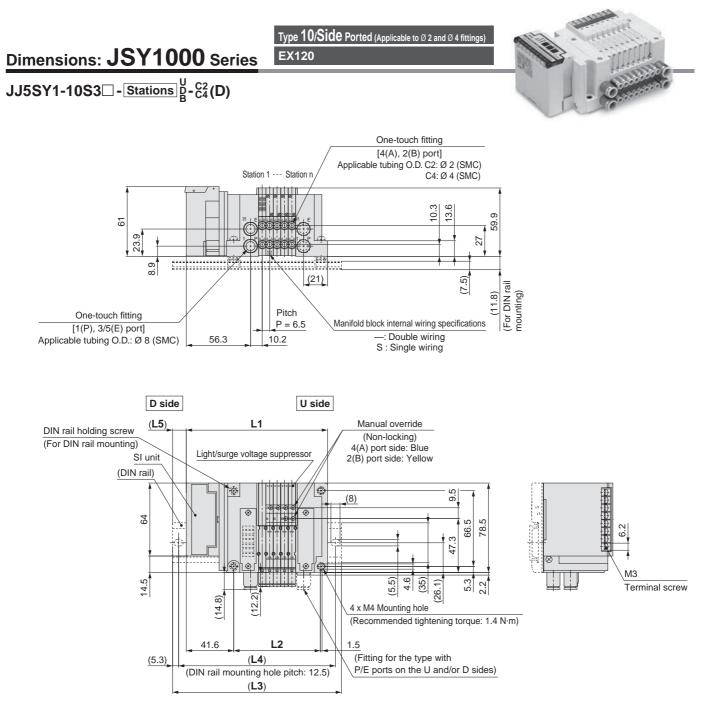
_	DIN rail mounting (With DIN rail)										
0	DIN rail mounting (Without DIN rail)										
3	For 3 stations										
:	÷	Specify a longer rail than the standard length.									
16	For 16 stations	the standard length.									

 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 Catalogue 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, https://www.sm.eu

How to Order Manifold Assembly





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

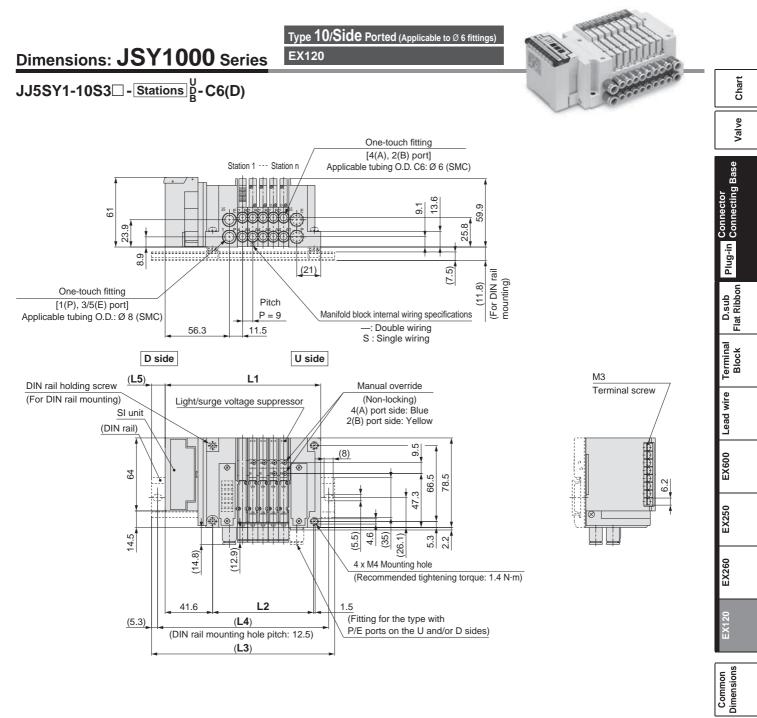
Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

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														
L _ L	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

SMC

Ellestin 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.

 $\ast~$ When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

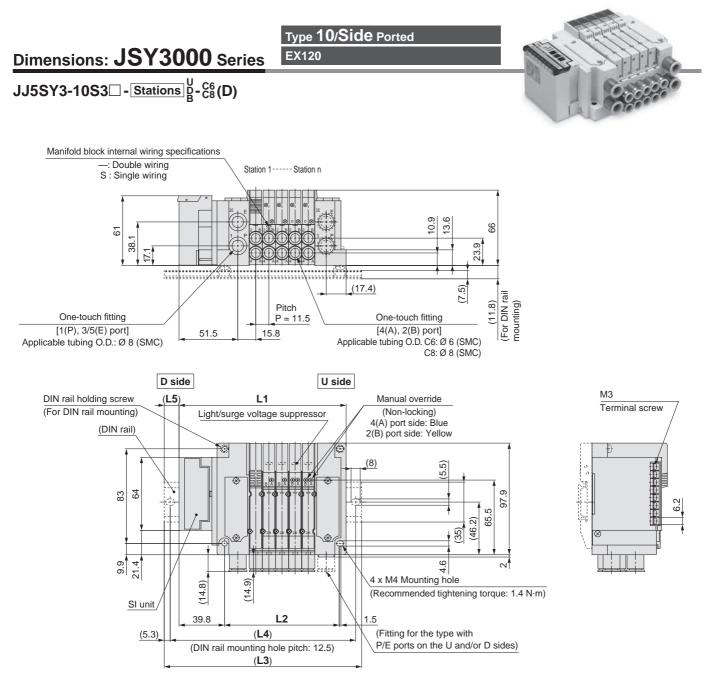
L: Dim	L: Dimensions n: Stations															de to rder
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Made
L1	109.3	118.3	127.3	136.3	145.3	154.3	163.3	172.3	181.3	190.3	199.3	208.3	217.3	226.3	235.3	2
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4	Product utions
L3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



Manifold Exploded View

Fittings, Replacement Parts, Tools

Manifold Options



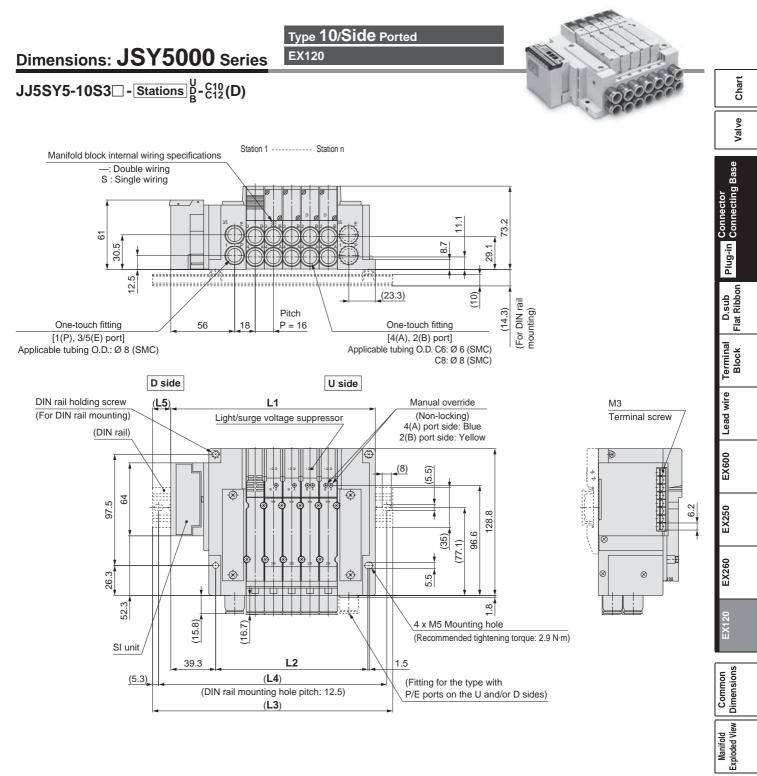
* These figures show the "JJ5SY3-10S3V-05D-C8."

* 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	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

Ellesin 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	ension	IS												r	n: Stations	e to ler
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Made 1 Orde
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	Product
L3	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	: Produ utions
L4	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375	Specific I Precau
L5	15	13	17	16	14	12	17	15	13	18	16	14	12	17	15	Sc



Fittings, Replacement Parts, Tools

Manifold Options

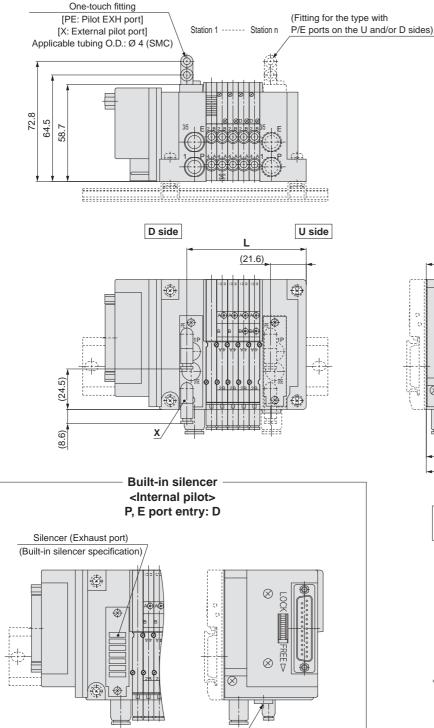
JSY1000/3000/5000 Series Common Dimensions

Dimensions: **JSY1000** Series

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

JJ5SY1-10 - Stations $B_{B}^{U}(S, R) - C_{C_{6}}^{2}(D)$

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: Ø 2, Ø 4)

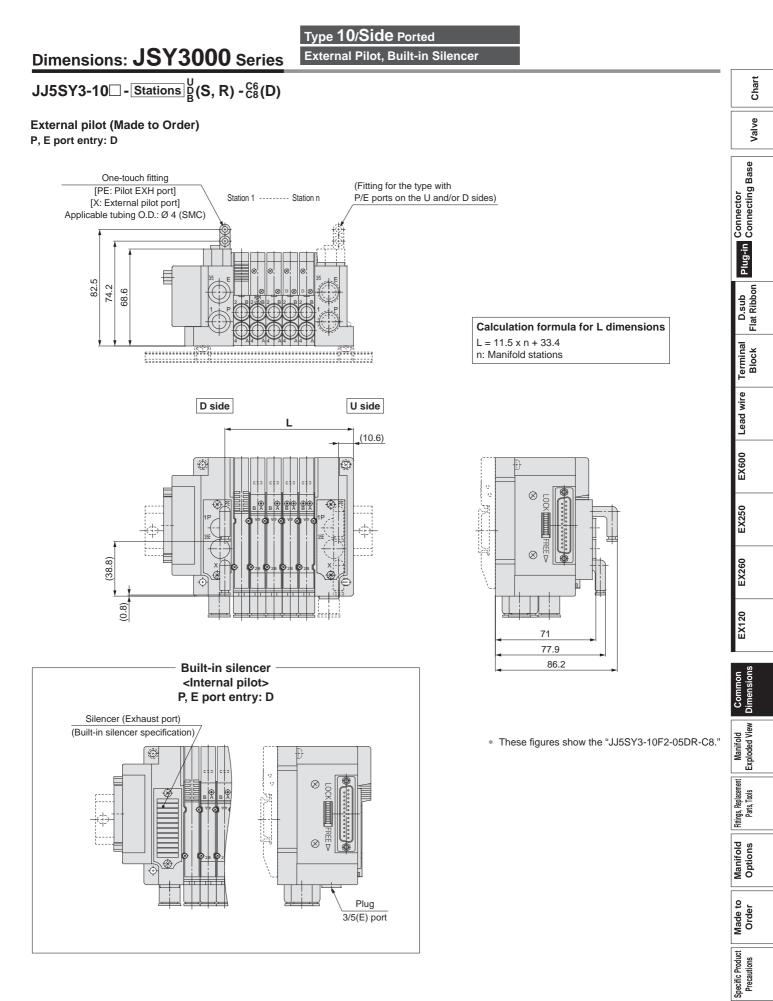
n2: Number of 9 mm pitch manifold block stations (Applicable fitting: Ø 6)

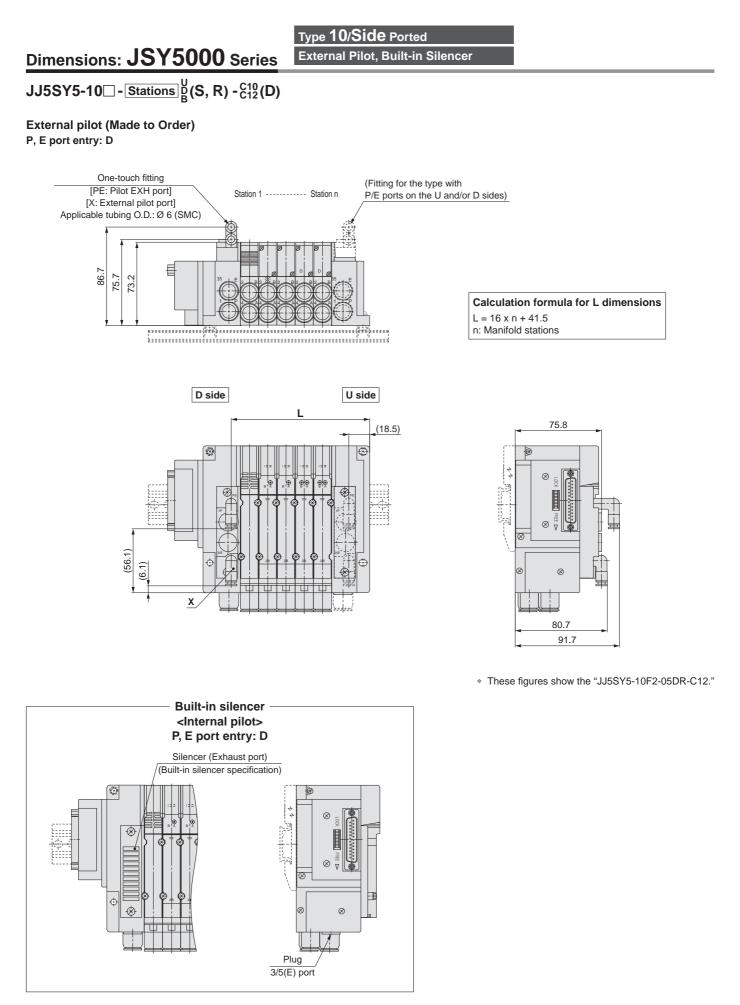
* These figures show the "JJ5SY1-10F2-05DR-C4."



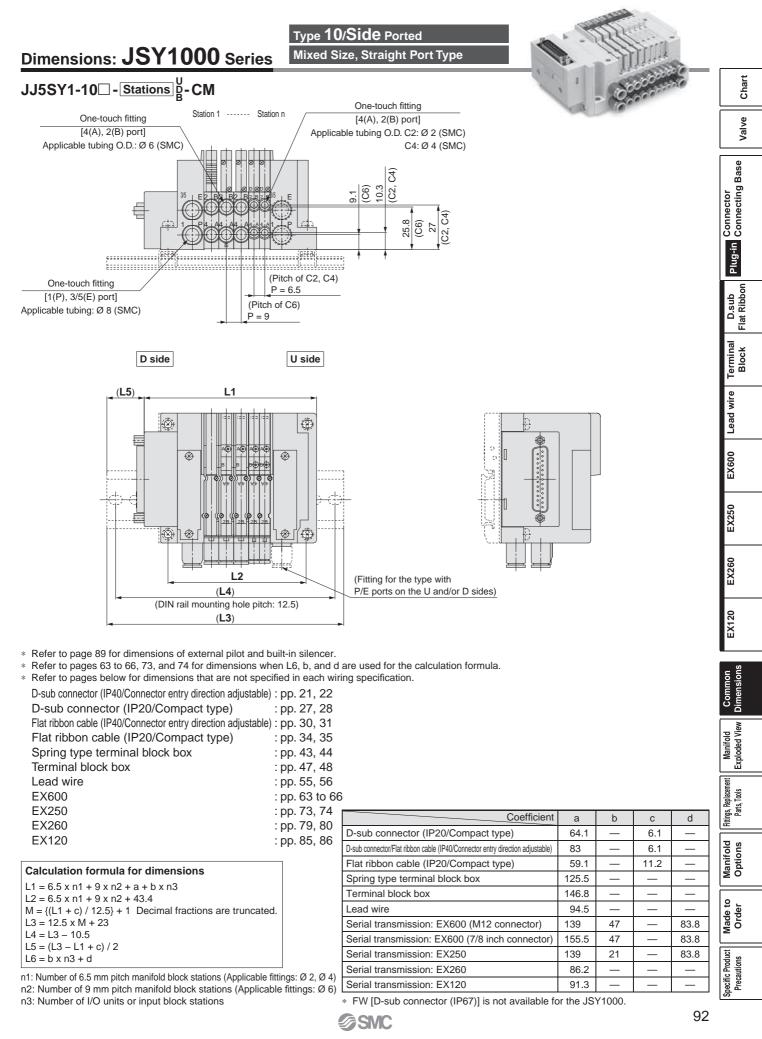
Plug 3/5(E) port

Common Dimensions JSY1000/3000/5000 Series

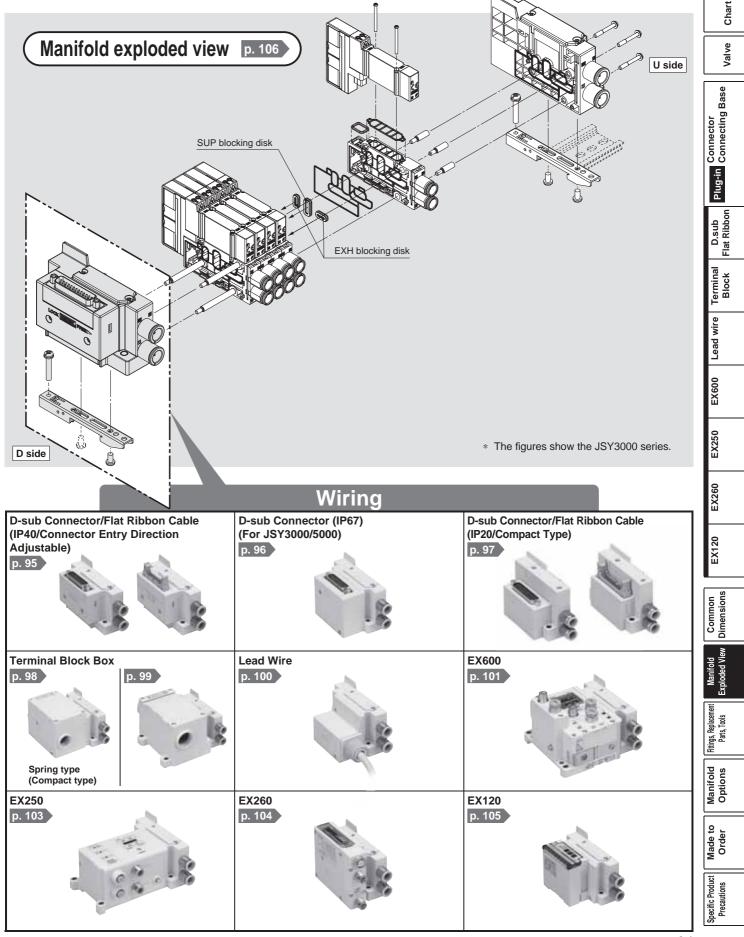




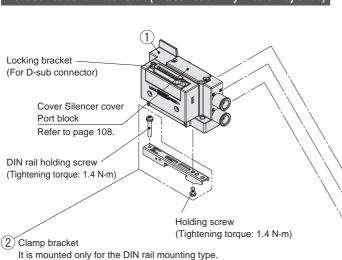
Common Dimensions JSY1000/3000/5000 Series

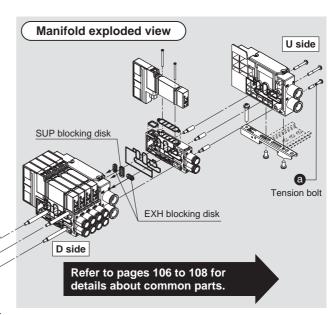


JSY1000/3000/5000 Series Type 10 Connector Connecting Base Manifold Exploded View



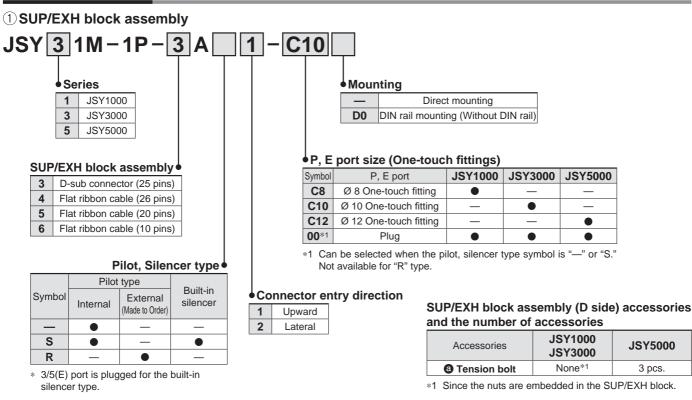






The holding screw of the clamp bracket is tightened at one point (for the JSY3000). * The clamp bracket fixing method for the JSY1000 is different depending on wiring. Refer to page 119.

Manifold Parts Nos.



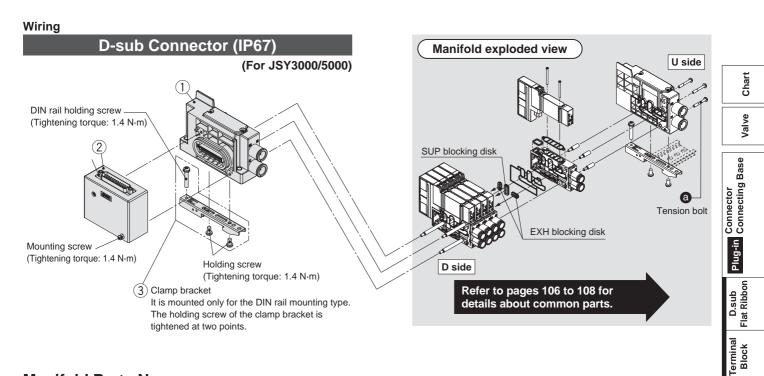
2 Clamp bracket

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

* Part number is for one piece.

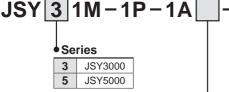
95

Connector Connecting Base Manifold Exploded View JSY3000/5000 Series



Manifold Parts Nos.

1) SUP/EXH block assembly



Pilot, Silencer type

	Pilot	Durit in	
Symbol	Internal	External (Made to Order)	Built-in silencer
—	٠	—	—
S	٠	_	
R	—		—

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

Mounting Direct mounting DIN rail mounting (Without DIN rail)

• P, E port size (One-touch fittings)

多SMC

C10

Symbol	P, E port	JSY3000	JSY5000		
C10	Ø 10 One-touch fitting	•	—		
C12	Ø 12 One-touch fitting	—	•		
00*1 Plug ●					

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

SUP/EXH block assembly (D side) accessories

Accessories	JSY3000	JSY5000		
Tension bolt	None*1	3 pcs.		

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

2 D-sub connector block <for IP67>

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

3 Clamp bracket

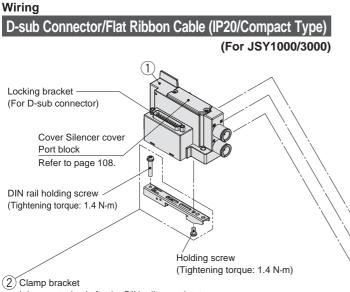
*		
Series	Part no.	
JSY3000	SY30M-15-1A	
JSY5000	SY50M-15-1A	

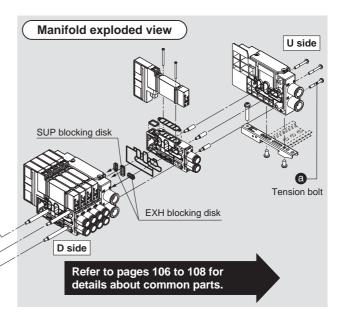
* Part number is for one piece.

Lead wire

EX600

Specific Product Precautions





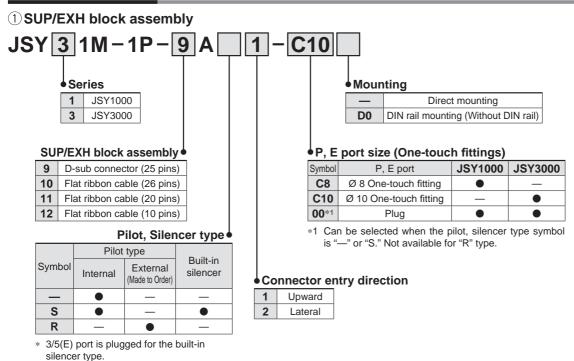
It is mounted only for the DIN rail mounting type.

The holding screw of the clamp bracket is tightened at one point (for the JSY3000).

* The clamp bracket fixing method for the JSY1000 is different depending on wiring.

Refer to page 119.

Manifold Parts Nos.

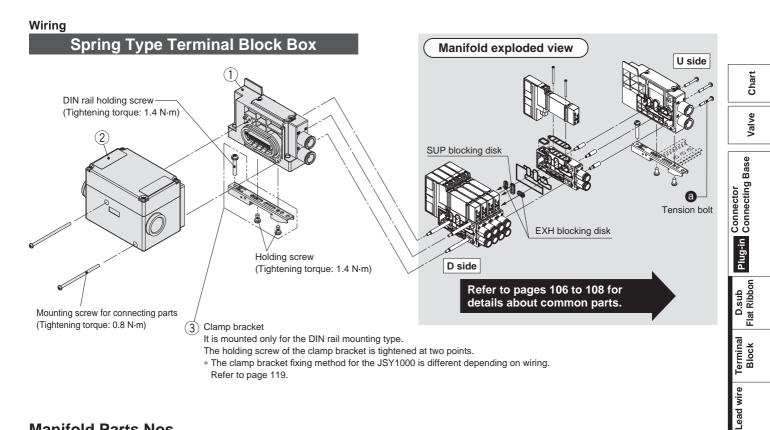


(2) Clamp bracket

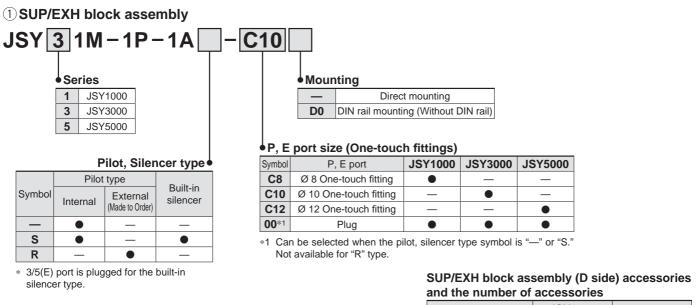
<u> </u>	
Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A

* Part number is for one piece.

Connector Connecting Base Manifold Exploded View JSY3000/5000 Series



Manifold Parts Nos.



2 Terminal block assembly

SY30M-130-1A

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

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

③Clamp bracket

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

* Part number is for one piece.

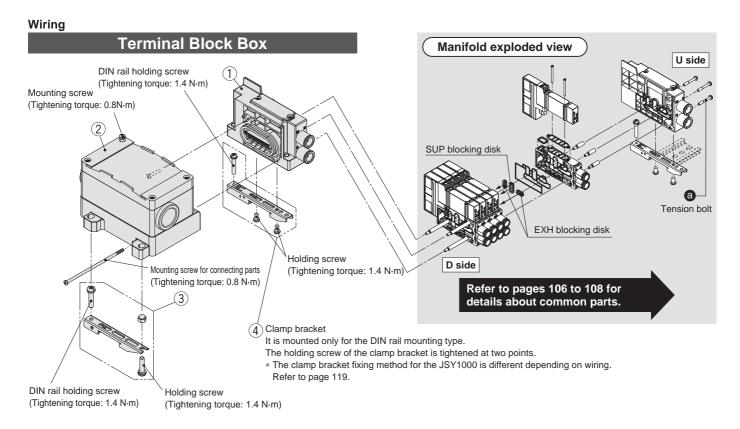
EX600

EX250

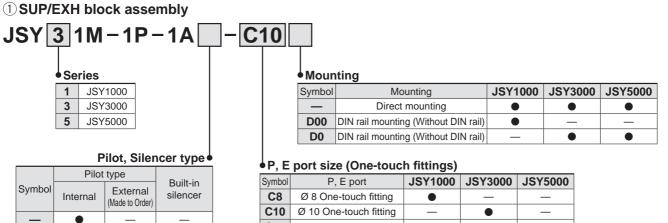
EX260

EX120

Common Dimensions



Manifold Parts Nos.



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

S R

Symbol	P, E port	JSY1000	JSY3000	JSY5000
C8	Ø 8 One-touch fitting	•	—	—
C10	Ø 10 One-touch fitting	_		_
C12	Ø 12 One-touch fitting	—	—	•
00 *1	Plug			

*1 Can be selected when the pilot, silencer type symbol is "-" or "S."

Not available for "R" type.

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

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

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

(4) Clamp bracket

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

3 Clamp bracket for terminal block box

2 Terminal block box housing assembly

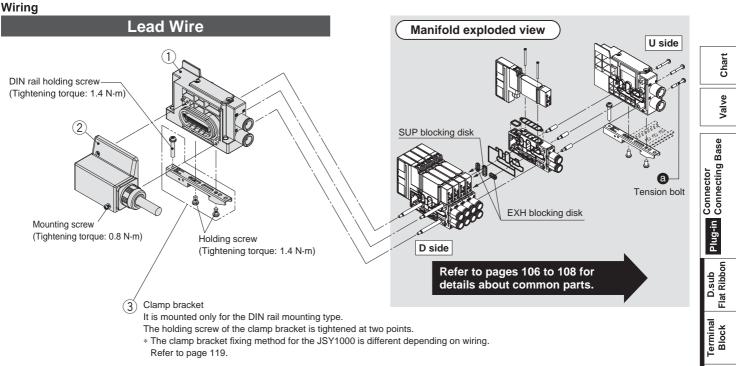
SY30M-15-4A

VVQC1000-T0-1

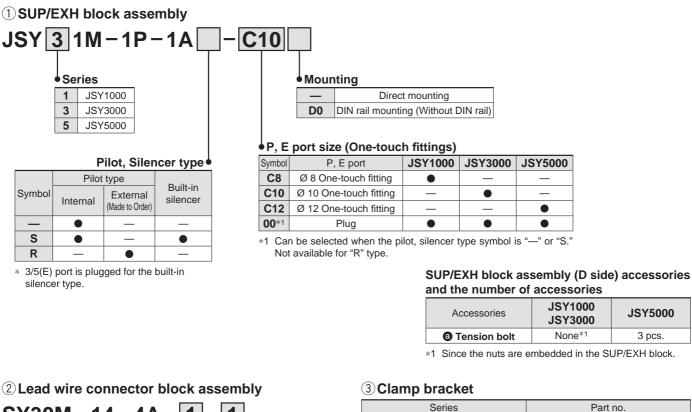
* Part number is for one piece.



Connector Connecting Base Manifold Exploded View JSY3000/5000 Series



Manifold Parts Nos.

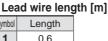


SY30M - 14 - 4A - 1 - 1 Number of cores (Lead wire) Symbol Number of cores 1 34

2

3

mber of cores	Symbol
34	1
17	2
9	3



SMC

1.5

3

	0010000
*	Part number is for one piece.

JSY1000

JSY3000

JSY11M-15P-1A SY30M-15-1A

SY50M-15-1A

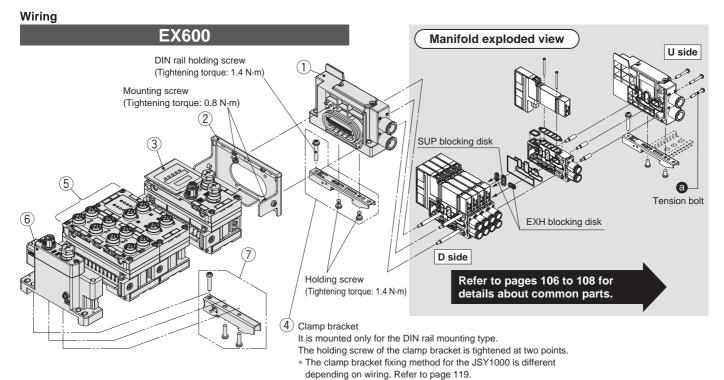
Fittings, Replacement Parts, Tools

Manifold Options

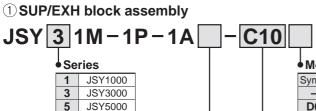
Made to Order

Specific Product

Precautions



Manifold Parts Nos.



Pilot, Silencer type

	Pilot type		Built-in	
Symbol	Internal	External (Made to Order)	silencer	
—		—		
S		—		
R	_		—	

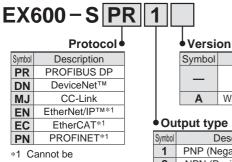
* 3/5(E) port is plugged for the built-in silencer type.

2 Valve plate

EX600-ZMV2

* With mounting screws (2 pcs. of M4 x 6 and 2 pcs. of M3 x 8)

③ EX600 SI unit



communicated with the EX600-HT1-

┥	Mounting

- mounting				
Symbol	Mounting	JSY1000	JSY3000	JSY5000
	Direct mounting			
D00	DIN rail mounting (Without DIN rail)		—	—
D0	DIN rail mounting (Without DIN rail)	—		

P. E port size (One-touch fittings)

<u> </u>	· , _ por o _ (o o o				
Symbol	P, E port	JSY1000	JSY3000	JSY5000	
C8	Ø 8 One-touch fitting		—	—	
C10	Ø 10 One-touch fitting	—		_	
C12	Ø 12 One-touch fitting	—	—		
00 *1	Plug				

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

Part no.

SUP/EXH block assembly (D side)

accessories and the number of accessories		
Accessories	JSY1000/3000	JSY5000
Tension bolt	None*1	3 pcs.

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

4 Clamp bracket

Description

When MJ. EN. EC. or PN is selected

Series

JSY1000 JSY11M-15P-2A **JSY3000** SY30M-15-1A **JSY5000** SY50M-15-1A

Part number is for one piece

When PR or DN is selected

Symbol	Description	Condition
1	PNP (Negative common)	Can be selected by all protocols
2	NPN (Positive common)	Can be selected by all protocols
3	PNP (Negative common) EtherNet/IP™ (2 ports)	Can be selected in the case of EN
4	NPN (Positive common) EtherNet/IP™ (2 ports)	Can be selected in the case of EN

(Wireless compatible)

	EX60	0-WE	
Symbol	SI unit type	Description	
EN	Wireless base unit	EtherNet/IP™*1	
PN	Wireless base unit	PROFINET*1	
SV	Wireless remote unit	*1	
*1 Cannot be communicated with the EX600-HT1-			

* 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.

Output	type

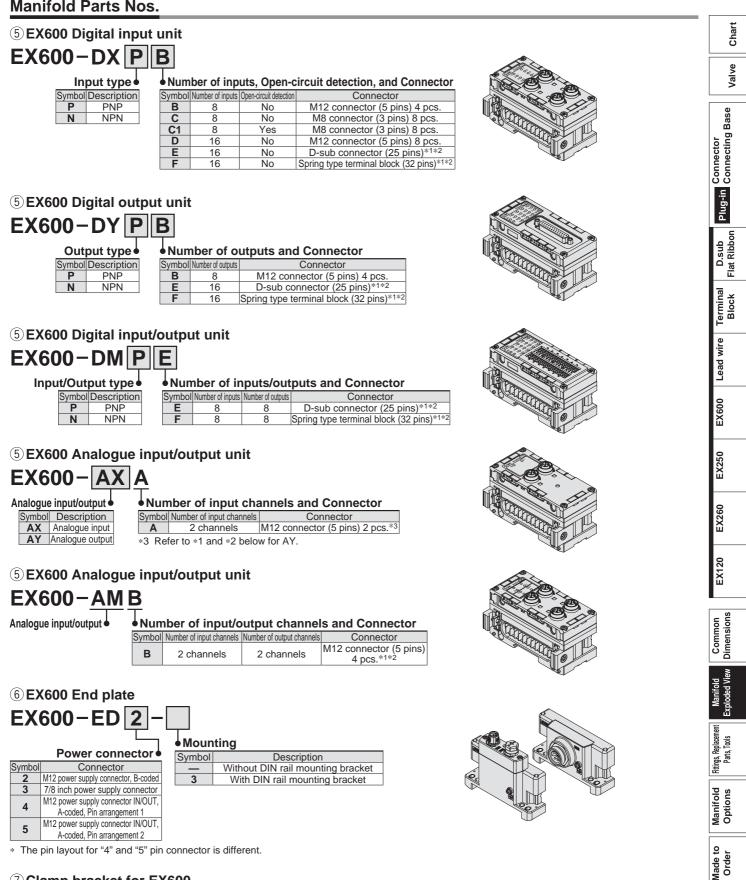
1

	• • • • • • • • • • • • • • • • • • • •
Symbo	Description
1	PNP (Negative common)
2	NPN (Positive common)



туре 10 Connector Connecting Base Manifold Exploded View JSY3000/5000 Series

Manifold Parts Nos.



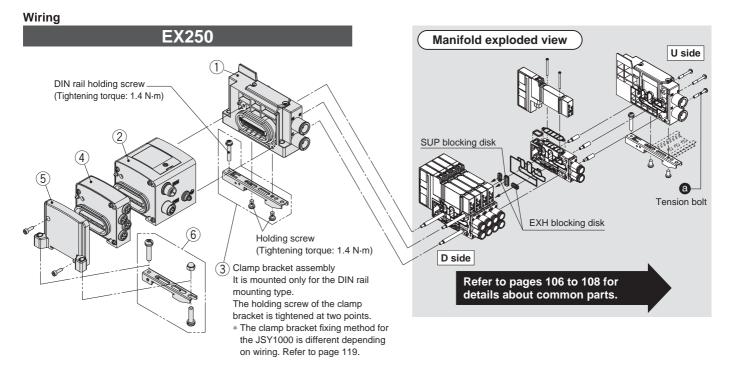
⑦ Clamp bracket for EX600 EX600-ZMA3

Enclosed parts

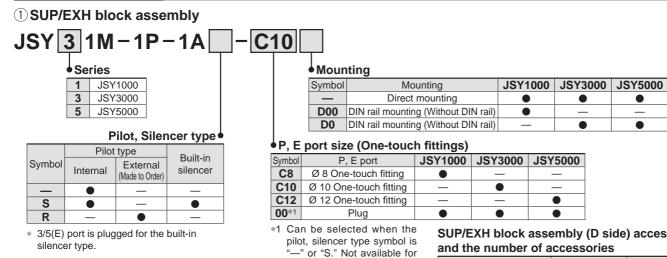
Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.

- *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
 - SMC

Specific Product Precautions



Manifold Parts Nos.



"R" type.

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

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

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

(4) Input block



Block type

• Бюск туре						
1	M12 connector, 2 inputs					
2	M12 connector, 4 inputs					
3	M8 connector, 4 inputs					

(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.

2 EX250 SI unit

EX250-S DN1

Communication protocol

DN1	DeviceNet [™] (Negative common)
PR1	PROFIBUS DP (Negative common)
AS3	AS-Interface (8 in/8 out, 31 slave modes, 2 isolated common type) (Negative common)
AS5	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	CANopen (Negative common)
EN1	EtherNet/IP [™] (Negative common)

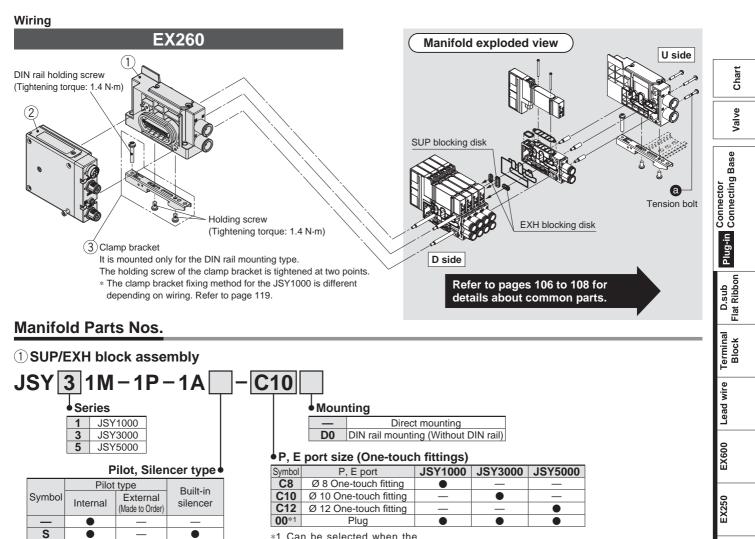
3 Clamp bracket

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

* Part number is for one piece.

SMC

туре 10 Connector Connecting Base Manifold Exploded View JSY3000/5000 Series



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

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

Accessories	JSY1000/3000	JSY5000						
2 Tension bolt	None*1	3 pcs.						

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

EX260-S PR1 Communication protocol

R

silencer type.

2 EX260 SI unit

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

●Cor	Communication protocol								Common Dimensions												
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	ommon nension									
DN1		32	Source/PNP (Negative common)		QAN	EC1			32	Source/PNP (Negative common)		DAN	ner								
DN2	DeviceNet™	-	Sink/NPN (Positive common)		QA	EC2	EtherCAT	19	Sink/NPN (Positive common)	M12	DA	Di C									
DN3	Devicemet	16	Source/PNP (Negative common)	IVITZ	QBN	EC3		16	Source/PNP (Negative common)	IVITZ	DBN	DBN ≥									
DN4		10	Sink/NPN (Positive common)		QB	EC4		10	Sink/NPN (Positive common)		DB	Vier									
PR1		32	Source/PNP (Negative common)		NAN	PN1		32	Source/PNP (Negative common)		FAN	ded									
PR2		32	Sink/NPN (Positive common)	M12	NA	PN2	PROFINET 16	Sink/NPN (Positive common)	M12	FA	Manifold Exploded View										
PR3		16	Source/PNP (Negative common)	IVITZ	NBN	PN3		-	Source/PNP (Negative common)	IVIIZ	FBN										
PR4	PROFIBUS DP	10	Sink/NPN (Positive common)		NB	PN4													Sink/NPN (Positive common)		FB
PR5	FROFIBUS DF	32	Source/PNP (Negative common)		NCN	EN1	EthorNot/IDIM	EN1	22	Source/PNP (Negative common)		EAN	lacer								
PR6		32	Sink/NPN (Positive common)	D-sub*1	NC	EN2		Sink/NPN (Positive common)	M12	EA	s, Rep arts, 1										
PR7		16	Source/PNP (Negative common)	D-Sub	NDN	EN3	16	Source/PNP (Negative common)	IVITZ	EBN	P										
PR8		10	Sink/NPN (Positive common)		ND	EN4		10	Sink/NPN (Positive common)		EB										
MJ1	J2 COLUMN	32	Source/PNP (Negative common) VAN PL1 Ethernet	Ethernet	32	Source/PNP (Negative common)	M12	GAN	pl st												
MJ2		52	Sink/NPN (Positive common)	M12	VA	PL3	POWERLINK	16	Source/FINF (Negative continion)	IVITZ	GBN	ior ior									
MJ3	CC-LINK	16	Source/PNP (Negative common)	IVIIZ	VBN	IL1	IO-Link	32	Source/PNP (Negative common)	M12	KAN	Manifold Options									
MJ4		10	Sink/NPN (Positive common)		VB							20									

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

3 Clamp bracket

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

* Part number is for one piece.

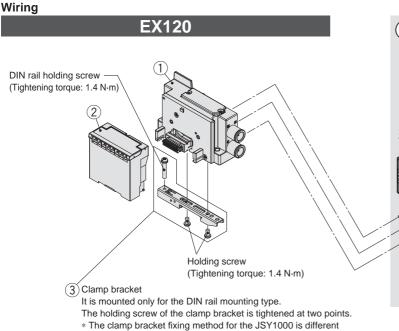


EX260

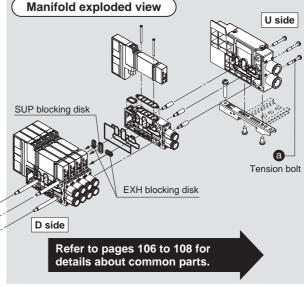
EX120

Made to Order

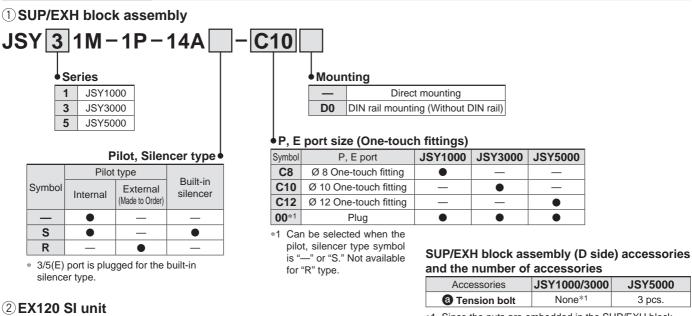
Specific Product Precautions



depending on wiring. Refer to page 119.



Manifold Parts Nos.



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

JSY5000

3 pcs.

2) EX	120	SI u	nıt	
FX1	20	_	۲ ا	

Communication protocol

DN1	DeviceNet [™] (Positive common)					
CS1	OMRON Corp.: CompoBus/S (16 outputs) (Positive common)					
CS2	OMRON Corp.: CompoBus/S (8 outputs) (Positive common)					
MJ1	CC-Link (Positive common)					
CM1	CompoNet [™] NPN (Positive common)					
CM3	CompoNet [™] PNP (Negative common)					

3 Clamp bracket

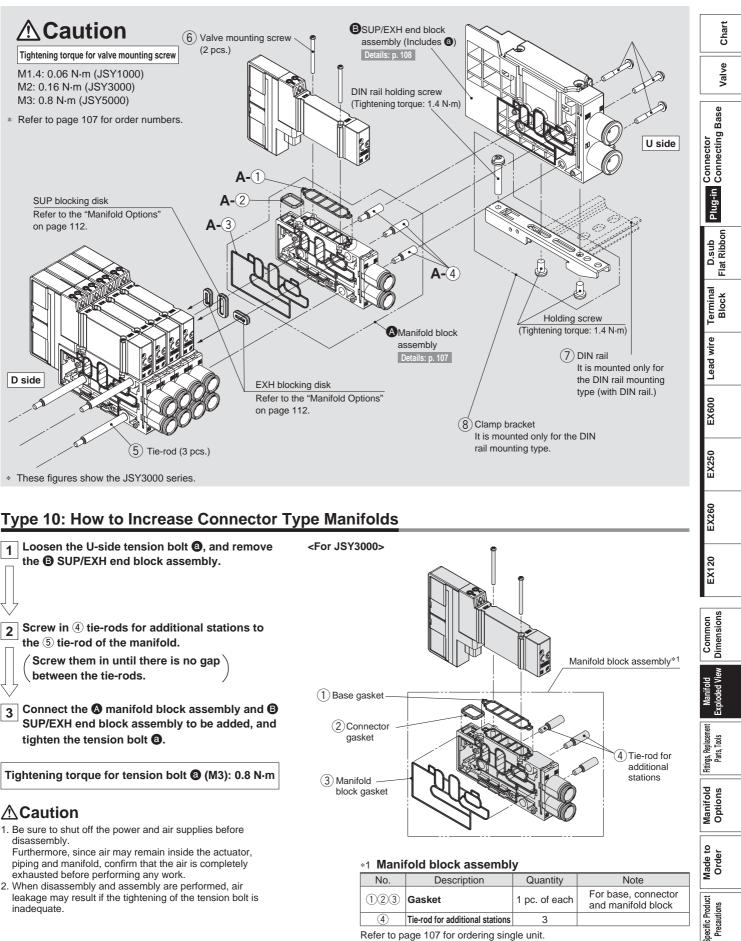
Series	Part no.	
JSY1000	JSY11M-15P-1A	
JSY3000	SY30M-15-1A	
JSY5000	SY50M-15-1A	

* Part number is for one piece.



Connector Connecting Base Manifold Exploded View JSY3000/5000 Series

Manifold Exploded View [Common Parts]



② Connector gasket is not applicable to the JSY1000.

∕ SMC

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

No.	Description		JSY1000		JSY3000	JSY5000	Note
INO.		Description	6.5 mm pitch	9 mm pitch	3313000	3313000	Note
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	blo	Connector gasket	-	_	SX300	0-146-2	Supplied individually
A- ③	nifold assem	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	2 peop supplied
A- (4)	—	additional stations*1	(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	3 pcs. supplied
(5)	Tior	ed .	JSY11M-49P-1-□-A	JSY11M-49P-2-□-A	JSY31M-49P-1-□-A	SV2000-55-1-□-A	: Manifold stations (2 to 24
9	Tie-rod		(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	stations) 3 pcs. supplied
(6)	Valv	e mounting screw	JSY11\	/-23-1A	JSY31V-23-1A	JSY51V-23-1A	Part numbers shown on the
0	Valv	e mounting screw	(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
8	(for connector connecting base)		JSY11M-15P-2A (Ref	er to the table below.)	3130W-13-1A	3130W-13-1A	

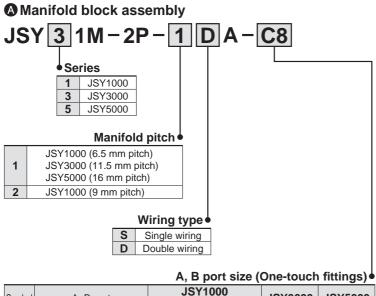
*1 The manifold of the JSY1000/3000 (JJ5SY1-10/JJ5SY3-10) can be assembled by connecting the tie-rods for number of manifold stations. The manifold of the JSY5000 (JJ5SY5-10) cannot be assembled by connecting the tie-rods for additional stations for the number of manifold. Tie-rod (SV2000-55-1-

*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.

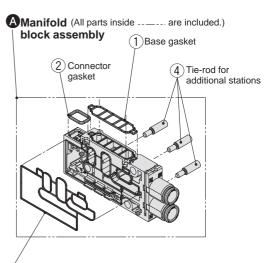
Table. JSY1000 series clamp bracket

	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	•	_
S 3	EX120		_

Manifold Parts Nos.



Symbol	A, B port	JSY1000		JSY3000	JSY5000
		6.5 mm pitch	9 mm pitch	3313000	3313000
C2	Ø 2 One-touch fitting		—	—	
C4	Ø 4 One-touch fitting		—	—	—
C6	Ø 6 One-touch fitting	—		•	_
C8	Ø 8 One-touch fitting	—		•	_
C10	Ø 10 One-touch fitting	_		_	
C12	Ø 12 One-touch fitting	—		_	



(3) Manifold block gasket

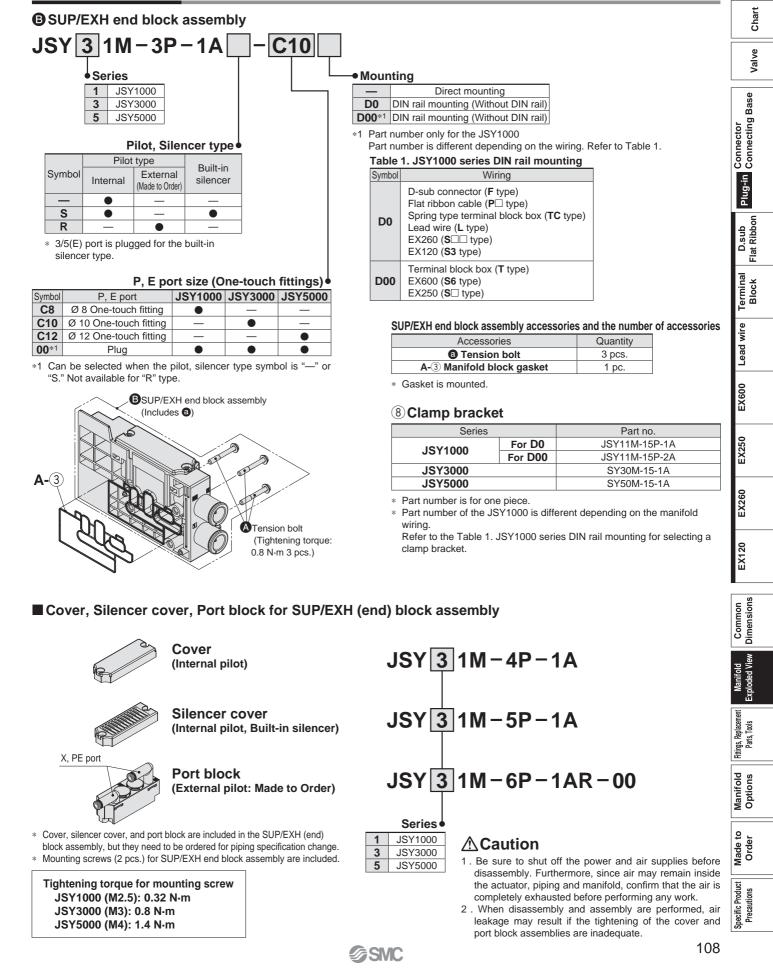
Manifold block assembly accessories and the number of accessories

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.

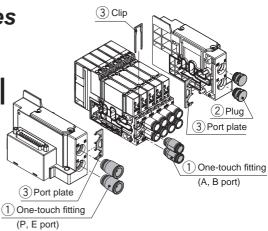


Manifold Parts Nos.



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

		0						
	Series	JSY	1000	JSY3000	JSY5000	Note		
Port size		6.5 mm pitch	9 mm pitch	3313000	3313000	Note		
	Ø2	KQSY10-C2	—	—	—			
	Ø 4	KQSY10-C4-X1336	—	—	—			
	Ø6	_	KQSY11-C6-X1336	KQSY30-C6	—			
A, B port	Ø8	-	_	KQSY30-C8-X1336	—			
	Ø 10	-	_	—	KQSY50-C10	Part number is for one piece.		
	Ø 12	-	_	—	KQSY50-C12-X1336			
	Ø8	KQSY30-	C8-X1336	—	—			
P, E port	Ø 10	-	_	KQSY31-C10-X1336	—			
	Ø 12	-	_	—	KQSY50-C12-X1336			

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

2 Plug

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

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

3Clip, Port Plate

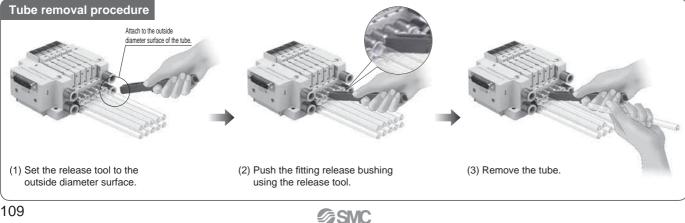
Series	JSY	1000					
Piping port	For A, B port C2/C4 fittings	For A, B port C6 fittings	JSY3000	JSY5000	Note		
A, B port (Clip)	SJ1000-CL-1 JSY11M-19P-1A		JSY31M-19P-1A	JSY51M-19P-1A	Part number is for 10 pieces.		
P, E port (Port plate)	JSY11M	<i>I</i> I-10P-1	JSY31M-10P-1	JSY51M-10P-1	Part number is 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.)

Series	For JS	Y1000	For JSY3000	For JSY5000	
Selles	6.5 mm pitch	9 mm pitch	F01 J31 3000		
Part no.	TG-0204	TG-0608	TG-0608	TG-1012	
Applicable tubing O.D.	Ø 2/Ø 4	Ø 6	Ø 6/Ø 8	Ø 10/Ø 12	



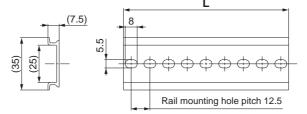


109

JSY1000/3000/5000 Series **Manifold Options**

DIN rail dimensions/weight for the JSY1000/3000 Plug-in connector connecting base VZ1000-11-1-

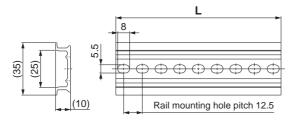
* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box ...



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 Plug-in 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 ...



																				e 🖃
No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	Manif Exploded
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	Fittings, Replacement Parts, Tools
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	i, Replai irts, Too
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	Fittings Pa
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	Manifold Options
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	lani Opti
Weight [g]	145	148.1	151.3	154.5	157.6	160.8	163.9	167.1	170.3	173.4	176.6	179.8	182.9	186.1	189.2	192.4	195.6	198.7	201.9	20
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					Made t Ordei
Weight [g]	205.1	208.2	211.4	214.5	217.7	220.9	224	227.2	230.4	233.5	236.7	239.8	243	246.2	249.3					l≊ o

Specific Product Precautions

Chart

Valve

Plug-in Connector Connecting Base

D.sub Flat Ribbon

Terminal Block

Lead wire

EX600

EX250

EX260

EX120

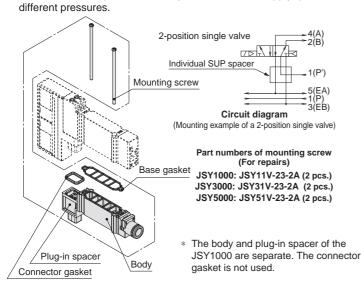
Common Dimensions

Exploded View Manifold

JSY1000/3000/5000 Series

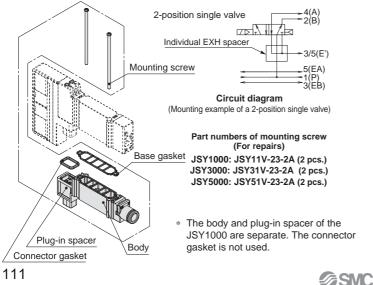
M2: 0.16 N·m (JSY3000) **Manifold Options** M3: 0.8 N·m (JSY5000) * Refer to page 113 for dimensions. Blanking plate [With two mounting screws] JSY 3 1M - 26P - 1A Used when valve additions are expected or for maintenance. Series Mounting screw JSY1000 1 Mounting screw Mounting screw (2 pcs.) (2 pcs.) JSY3000 3 (2 pcs.) 5 JSY5000 (B) 2 1 Т JSY11M-26P-1A JSY31M-26P-1A JSY51M-26P-1A 3 (EA) (P) (EB) Circuit diagram Individual SUP spacer

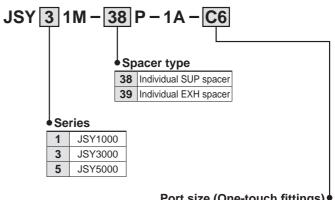
[With a connector gasket, a base gasket, and two mounting screws] When the same manifold is used for different pressures, an individual SUP spacer assembly is used as a supply port for



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.





Port size (One-touch	fittings)•	
ISV1000	1673000	1672000	

Caution Tightening torque for mounting screw

M1.4: 0.06 N·m (JSY1000)

Symbol	P, E port	JSY1000	JSY3000	JSY5000
C4	Ø 4 One-touch fitting	•	—	
C6	Ø 6 One-touch fitting	—	•	
C8	Ø 8 One-touch fitting	—	—	
C10	Ø 10 One-touch fitting	—	—	
C12	Ø 12 One-touch fitting	—	—	٠

Manifold Options JSY1000/3000/5000 Series

Series

JSY1000

JSY3000

JSY5000

3/5 3/5

B 2

EXH

blocking disk label

3/5

3/5

SUP blocking disk

JSY11M-40P-1A

JSY31M-40P-1A

JSY51M-40P-1A

Manifold Options

SUP/EXH blocking disk

[SUP blocking disk]

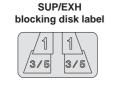
By inserting the SUP blocking disk in the pressure supply passage of the manifold valve, can provide two different high and low pressure in one manifold.

[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.)

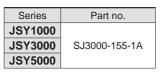
Label for blocking disk

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





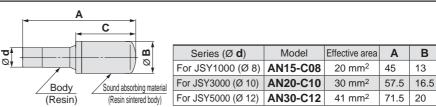
SUP

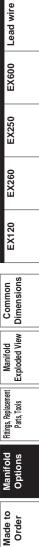


Silencer

(One-touch fitting connection type) This silencer can be mounted to the 3/5 (E: EXH) port of the manifold in one step.

* Shipped together with the product





С

30.5

43.5

20

Chart

Valve

Connecting Base

Connector

Plug-in

D.sub Flat Ribbon

Terminal Block

EXH blocking disk

JSY11M-40P-1A

JSY31M-40P-2A

JSY51M-40P-1A

If the blocking disk is ordered using the manifold specification sheet and ordered

at the same time as the manifold, the

position where the blocking disk is inserted will be labeled and shipped out.

le to

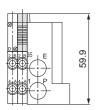
Specific Product Precautions

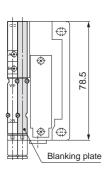
JSY1000/3000/5000 Series

Dimensions: Manifold Options

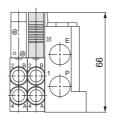
Blanking plate

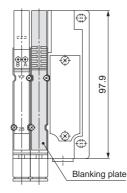
JSY1000 series



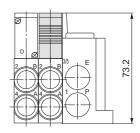


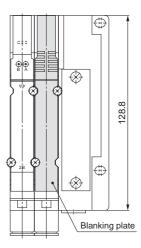
JSY3000 series





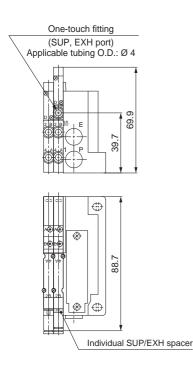
JSY5000 series



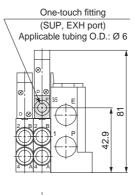


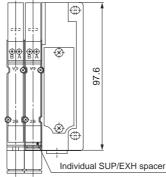
■ Individual SUP/EXH spacer

JSY1000 series

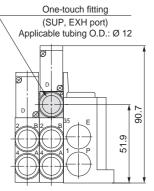


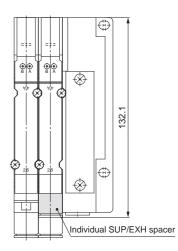
JSY3000 series





JSY5000 series



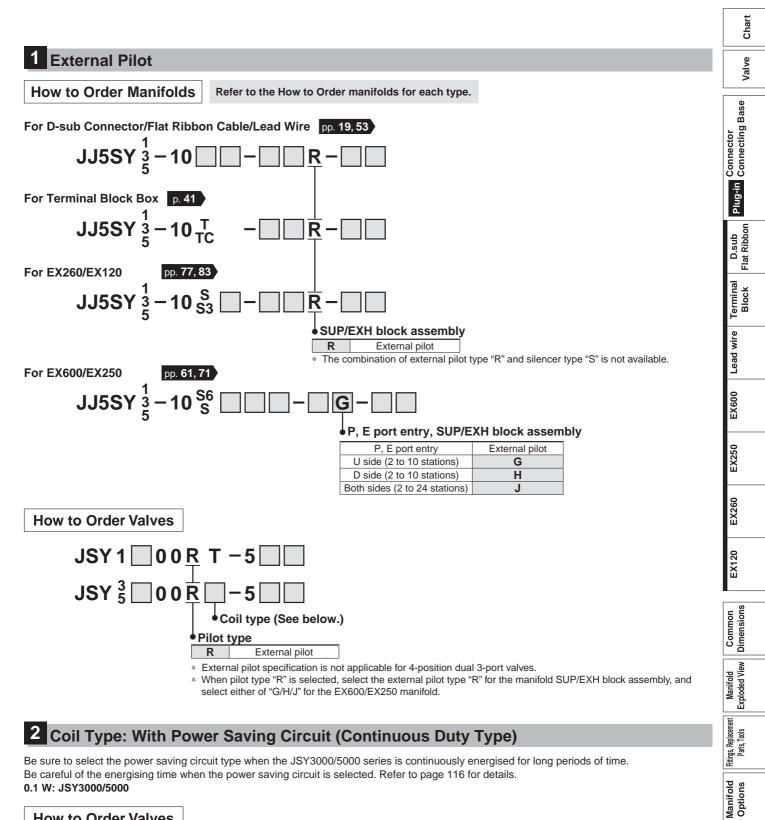


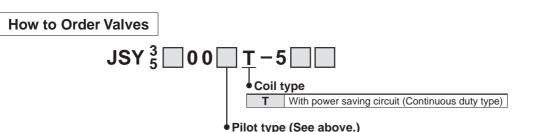


JSY1000/3000/5000 Series Made to Order

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







SMC



Specific Product Precautions



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 "Operation Manual" on the SMC website: https://www.smc.es

Environment

MWarning

- 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

ACaution

Mount it so that there is no slippage or deformation in gaskets, and tighten with the tightening torque as shown on the right.

D	Series	Thread size	Tightening torque
า	JSY1000	M1.4	0.06 N·m
ו	JSY3000	M2	0.16 N·m
S	JSY5000	M3	0.8 N·m

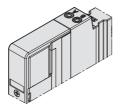
Manual Override

MWarning

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

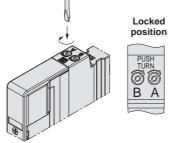
Push down on the manual override button until it stops.



■ 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.

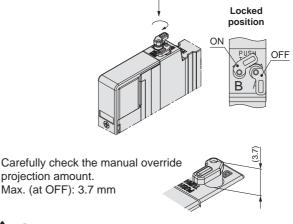


Manual Override

∕ 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 $N{\cdot}m]$

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

SMC

■ 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.		
Number of solenoids	Single	(A)4 2(B)	(A)4 2(B)		
	Double	(A)4 2(B) [고도 1 1 4] (EA)5 1 3(EB) (P)	(A)4_2(B) [/고도] [(국고] (EA)51 3(EB) (P)		

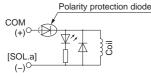


Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Operation Manual" on the SMC website: https://www.smc.es

Light/Surge Voltage Suppressor

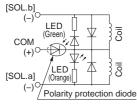
Polar type Positive common Single solenoid

Light/surge voltage suppressor (
NZ)



Positive common Double solenoid, 3-position, 4-position

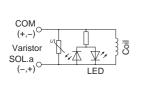
Light/surge voltage suppressor (DNZ)

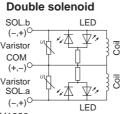


■ Non-polar type

With light/surge voltage suppressor (□U)

Single solenoid

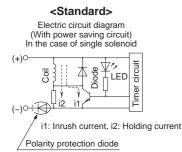




* Non-polar type is not available for the JSY1000.

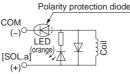
With power saving circuit

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



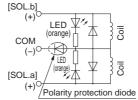
Negative common Single solenoid

Light/surge voltage suppressor (□NZ)



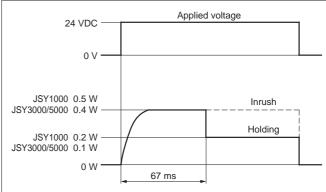
Negative common Double solenoid, 3-position, 4-position

Light/surge voltage suppressor (\Box NZ)



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

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

Continuous Duty

If a valve is energised 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 energised 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 energised simultaneously for extended periods of time or if the valves on A side and B side are energised simultaneously for long periods of time, take special care as the temperature rise will be greater.

Energization of a 2-Position Double Solenoid Valve

∕∂SMC

To avoid operation failure, do not energize the A side and B side of 2-position double solenoid valve at the same time. oduct Made to Manifold Fittings, Reglasment Manifold Common ons Order Options Pars, Tools Exploded View Dimensions

Chart

Valve

Connecting Base

Connector

Plug-in

D.sub Flat Ribbor

Ferminal Block

Lead wire

EX600

EX250

EX260

EX120



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 "Operation Manual" on the SMC website: https://www.smc.es

Countermeasure for Surge Voltage Intrusion

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-energised 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).

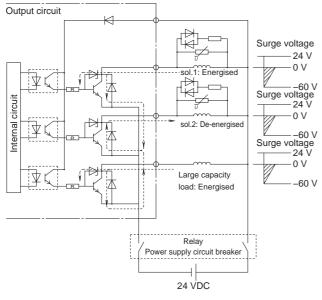


Figure 1. Surge intrusion circuit example (NPN outlet example) (24 VDC)

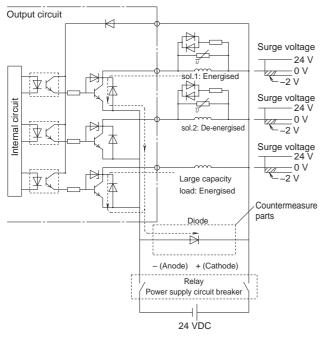


Figure 2. Surge intrusion circuit example (NPN outlet example) (24 VDC)

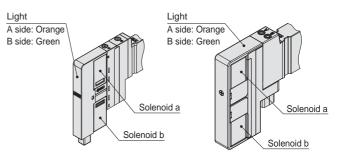
Light Indication

▲Caution

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

<JSY1000 series>

<JSY3000/5000 series>



Changing Connector Entry Direction

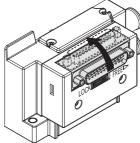
▲Caution

SMC

Connector direction for electrical entry of D-sub connector and flat ribbon cable <IP 4 0 > 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.





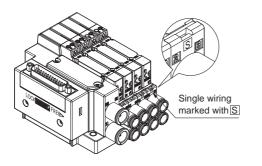
Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Operation Manual" on the SMC website: https://www.smc.es

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 [S].)



Substrate inside Manifolds

ACaution

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 6-10 stations, 4 locations for 11-15 stations, 5 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.

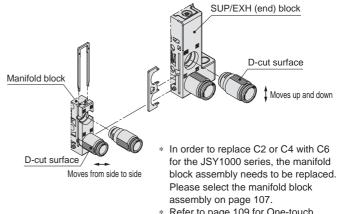
How to Replace One-touch Fittings

≜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 <u>up and down</u>.

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 <u>sideways</u>.

Fitting part no.: KQSY10-C4-X1336 (JSY1000) KQSY11-C6-X1336 (JSY1000) KQSY30-C8-X1336 (JSY3000) KQSY50-C12-X1336 (JSY5000) Chart



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 "Operation Manual" on the SMC website: https://www.smc.es

Other Tube Brands

ACaution

1. When using other than SMC brand tube, confirm that the following specifications are satisfied with respect to the tube outside diameter tolerance.

Nylon tube
 Soft nylon tube
 Polyurethane tube
 within ±

within ± 0.1 mm within ± 0.1 mm 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

ACaution

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

 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

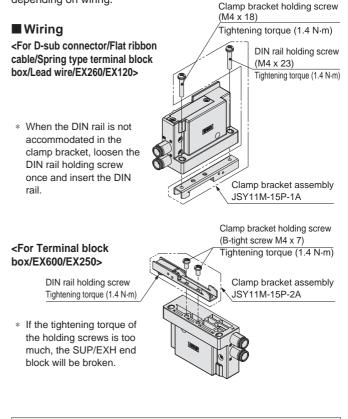
Use the release tool when the removal of tube is difficult due to the tube size. Refer to page 109 for releasing tools.

- 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.



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.

Installation

Trademark

DeviceNet[™] is a trademark of ODVA.

EtherNet/IP™ is a trademark of ODVA.

CompoNet[™] is a trademark of ODVA.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



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▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of **"Caution," "Warning"** or **"Danger."** They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)¹⁾, and other safety regulations.

\land Cautio	Caution indicates a hazard with a low level of riskwhich, if not avoided, could result in minor or moderate injury.
\land Warnin	Warning indicates a hazard with a medium level of riskwhich, if not avoided, could result in death or serious injury.
\land Dange	Danger indicates a hazard with a high level of riskwhich, if not avoided, will result in death or serious injury.

▲ Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications. Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

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.
- 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 unexpected 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, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and 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 catalogue.
- 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.

▲ Caution

 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.

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. etc.

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 catalogue 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.
- 2. 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.

▲ Safety Instructions

SMC Corporation (Europe)

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