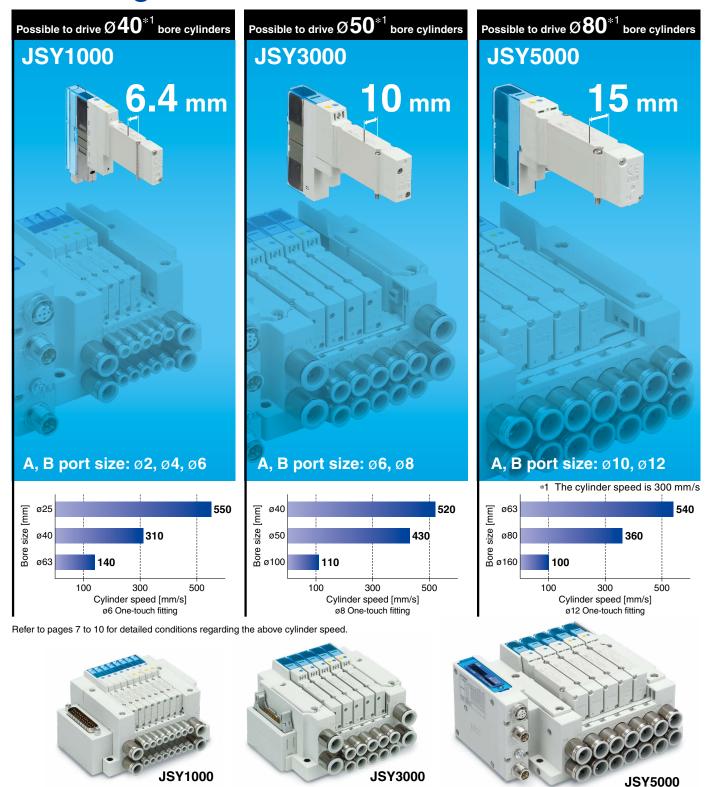
Plug-in

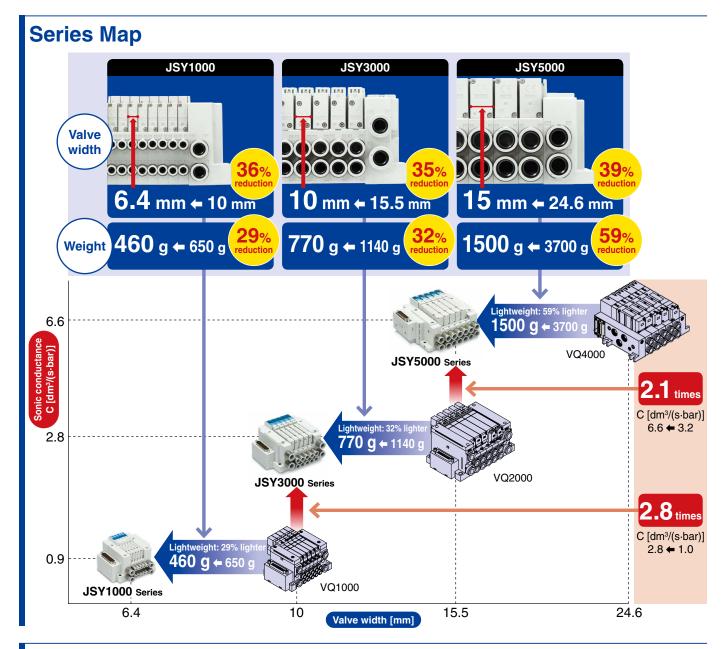
Compact 5-Port Solenoid Valve New

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



JSY1000/3000/5000 Series





Power Consumption

With power saving circuit

*1 Made to Order

Standard

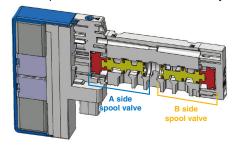
JSY3000/5000 *2

JSY1000 series available as power saving type only.

Connector Type Manifold Connector type manifold 32 outputs

4-Position Dual 3-Port Valve Available

• Two 3-port valves built into one body

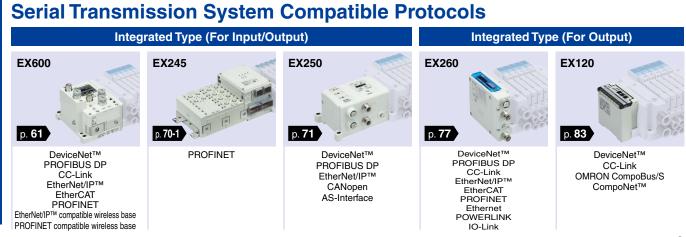


- 3-port valves on the A and B sides can operate independently.
- When used as a 3-port valve, only half the number of stations is required.
- Can also be used as a 4-position, 5-port valve

 Combination 	examples
Model	A cido

Model	A SIGE	R Side
JSY□A0□		
JSY□B0□		
JSY□C0□	N.C. valve	N.O. valve



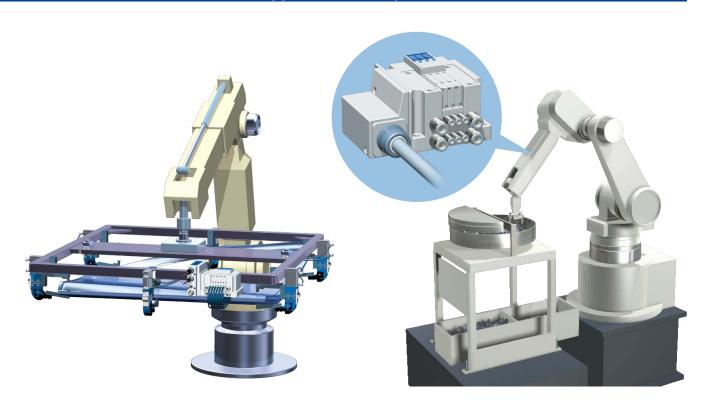


Series Variations

	Sonic conductance C [dm³/(s·bar)]					Port size 4(A), 2(B) port							
				Rated voltage	ø2	ø4	ø6	ø8		ø12	1(P), 3/5(E) port		
JSY1000	ø4	0.87	2-position single (A)4 2(B) (EA)5 1 3(EB) (P)	3-position pressure center (A) 4 2(B) (EA) 5 1 3(EB) (P)		•	•					~0	
JSK.	ø6	0.91	2-position double (A)4 2(B) (EA)5 1 3(EB) (P)	4-position dual 3-port valve N.C. valve x 2 pcs. 4(A) 2(B)	24 VDC			•				ø8	
JSY3000	ø8	2.77	3-position closed center (A)4 2(B) (B)5 13(EB) (P)	5(EA) 1(P) 3(EB) N.O. valve x 2 pcs. 4(A) 2(B) 5(EA) 1(P) 3(EB)	24 VDC			•	•			ø10	
JSY5000	ø12	6.59	3-position exhaust center (A)4 2(B) (EA)5 1 3(EB) (P)	N.C. valve, N.O. valve 1 pc. of each 4(A) 2(B) 5(EA) 1(P) 3(EB)						•	•	ø12	

Standard ○ Option ▲ Made to Order

Application Examples



Plug-in

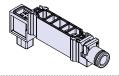
	Wir	ing				ifold Opt	ions				Va	lve Optic	ons	
Pitch width [mm]	Positive common standard	Negative common	Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP/EXH blocking disk	Label for blocking disk	Silencer (One- touch fitting connection type)	Built-in silencer	Vacuum/Low pressure specification	Different pressures	Reverse pressure	Mixed fitting sizes	Enclosure IP67*1
6.5														
9	•	•	0	0	0	0	0	0	•	A	0	A	•	
11.5			p. 111	p. 111	p. 111	p. 112	p. 112	p. 112		External pilot	Individual SUP	External pilot		•
16														•

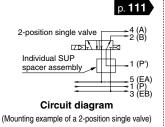
*1 Refer to the "Manifold Specifications" on pages 15 and 16 for details on IP67.

Manifold Options

Individual SUP spacer

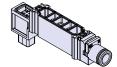
When the same manifold is used for different pressures, an individual SUP spacer is used as a supply port for different pressures.

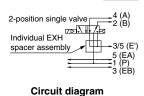




Individual EXH spacer

When valve exhaust affects other stations due to the circuit configuration, this spacer is used for individual valve





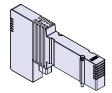
p. 111

p. **112**

(Mounting example of a 2-position single valve)

Blanking plate

Used when valve additions are expected or for maintenance.





p. 111

p. 112

blocking disk labe /1

/3/5

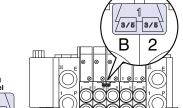
11

disk labe

3/5



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/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.

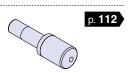
[EXH blocking disk]

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.)

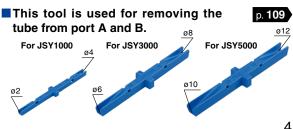


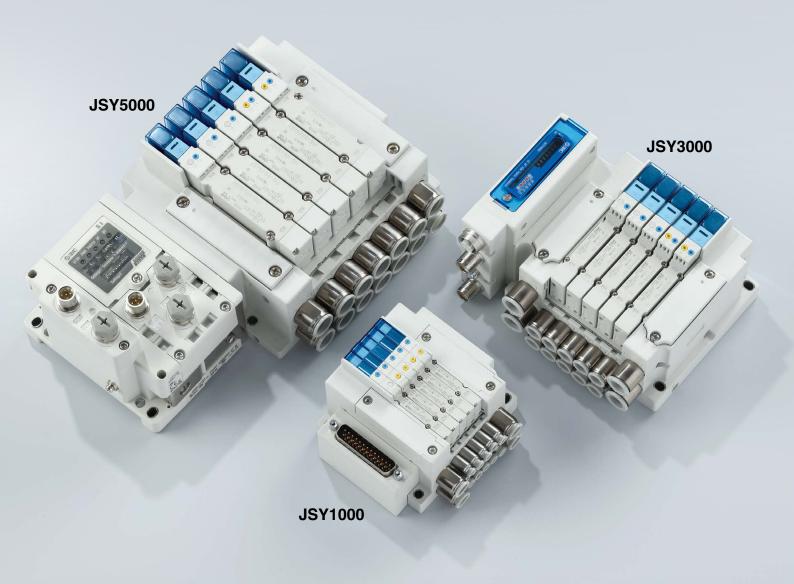
■ Silencer (One-touch fitting connection type)

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



Tube Releasing Tool





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		r		
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D out connector		D-sub Conne		
D-sub connector		D-sub Conne		
0.000		Flat Ribbon C		
Flat ribbon cable		Flat Ribbon C		
Flat ribbon cable		ring Specification		
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		pe Terminal		
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Terminal block box		Terminal Bloc		
Terminal block box	Connection/E	Connection/Electrical Wiring		
0000		Lead Wire		
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Lead wire	Dimensions ·			
Loud Wile	Electrical Wir	ing Specification		
		egrated Type		
6 60000		· · · · · · · · · · · · · · · · · · ·		
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Chart

Valve

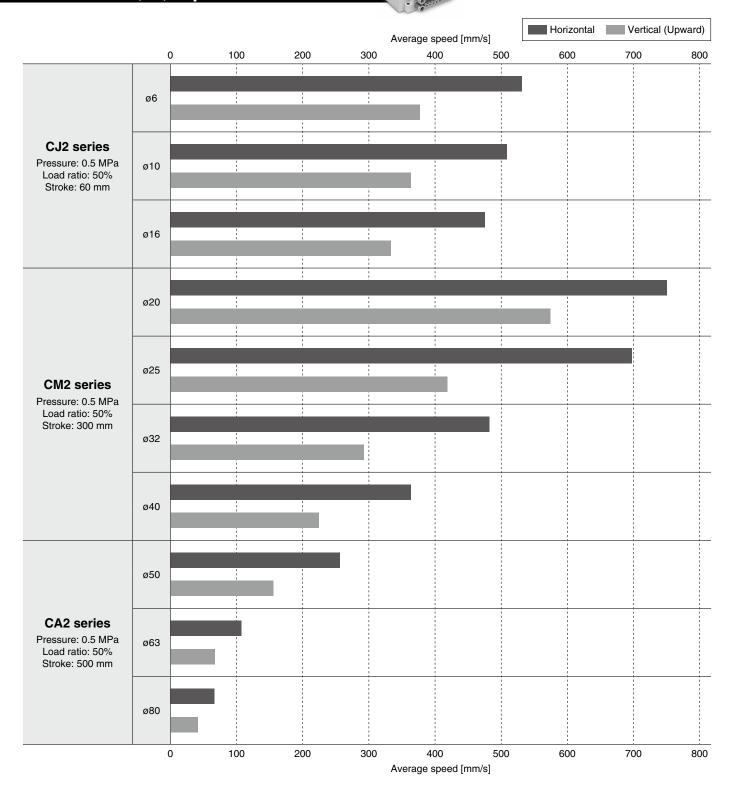
Plug-in Connector Connecting Base

EX260 EX250 EX600 Lead Wire

EX120

Optimum Actuation Size Chart of Air Cylinder

For JSY1000, A, B port: Ø4



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

^{*} The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

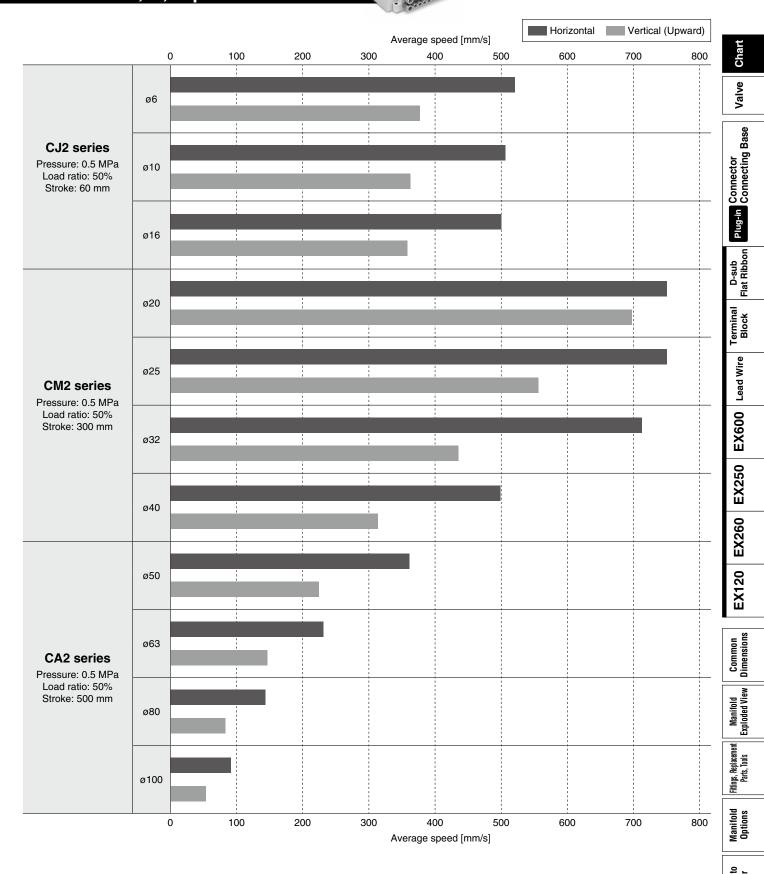
^{*} Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%

^{*} Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.

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

Optimum Actuation Size Chart of Air Cylinder

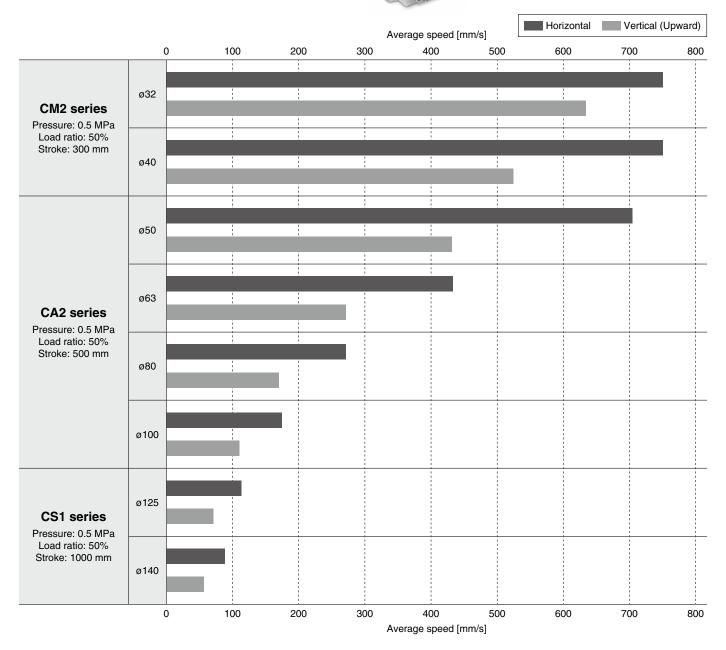
For JSY1000, A, B port: Ø6



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- * The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
- * Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.



Optimum Actuation Size Chart of Air Cylinder For JSY3000, A, B port: Ø8



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

^{*} The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

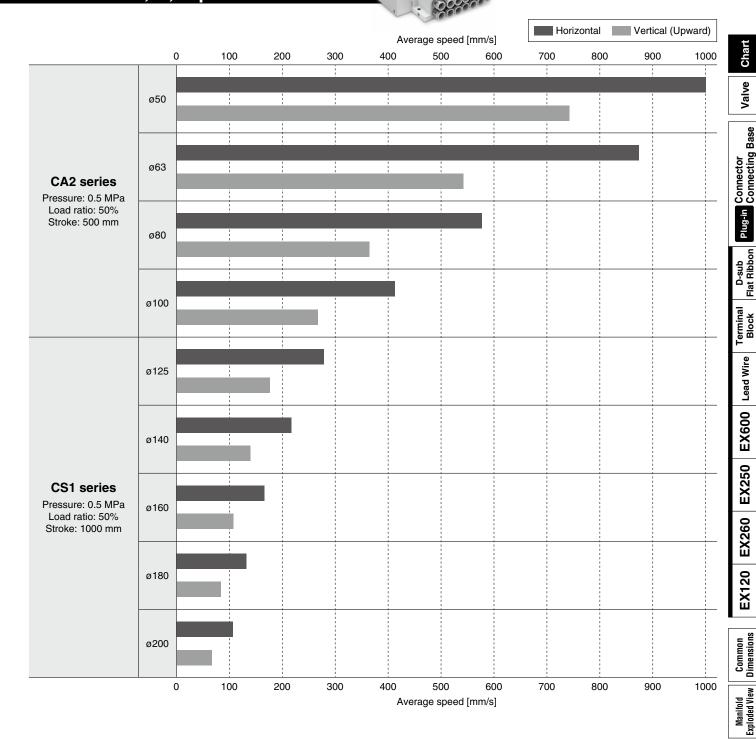
^{*} Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%

^{*} Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.

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

Optimum Actuation Size Chart of Air Cylinder

For JSY5000, A, B port: Ø12



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



10

^{*} 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.

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type			Rubber seal		
Fluid			Air		
	2-position single		0.15 to 0.7		
Internal pilot operating pressure range	2-position dou	ble	0.1 to 0.7		
[MPa]	3-position		0.2 to 0.7		
[iiii u]	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	5		
	JSY1000/3000	4-position dual 3-port valve	5		
Max. operating frequency		3-position	3		
[Hz]		2-position single/double	5		
	JSY5000	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		
Pilot exhaust type	External pilot	(Made to Order)	mulvidual exhaust		
Lubrication			Not required		
Mounting orientation*2			Unrestricted		
Impact/Vibration resistanc	e*2 [m/s²]		150/30		
Enclosure			JSY1000: IP40 JSY3000/5000: IP67 (Based on IEC60529)		
Coil rated voltage [DC]			24 V		
Allowable voltage fluctuati	on [V]		±10% of the rated voltage		
	Standard	JSY3000/5000	0.4		
Power consumption [W]		JSY1000	0.2*3 [Inrush 0.5, Holding 0.2]		
rower consumption [W]	With power saving circuit	JSY3000/5000 (Made to Order)	0.1*4 [Inrush 0.4, Holding 0.1]		
Surge voltage suppressor			Diode (Varistor for non-polar type)		
Indicator light			LED		

^{*1} Not available for the JSY1000 series

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

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both energized and de-energized states in the axial direction and at the right angles to the main valve and armature. (Values at the initial period)

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

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

^{*4} For details, refer to page 116.

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Chart

EX120 EX260 EX250 EX600 Lead Wire

			Response time [ms]*1 With light/surge voltage suppressor			
Series	Model	Type of actuation				
			Z type	U type		
	JSY1100	2-position single	15			
JSY1000	JSY1200	2-position double	7			
3511000	JSY13/4/500	3-position	16	_		
	JSY1A/B/C00	4-position dual 3-port valve	19			
	JSY3100	2-position single	27	18		
JSY3000	JSY3200	2-position double	13	12		
JS 13000	JSY33/4/500	3-position	27	24		
	JSY3A/B/C00	4-position dual 3-port valve	23	23		
	JSY5100	2-position single	35	25		
JSY5000	JSY5200	2-position double	19	17		
JS 15000	JSY53/4/500	3-position	41	37		
	JSY5A/B/C00	4-position dual 3-port valve	37	37		

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

Valve Weight

JSY1000 Series

Valve model	Type of actuation		Weight [g]		
	2-position	Single	24		
	2-position	Double	27		
JSY1□00	3-position	Closed center			
JS1 100		Exhaust center	30		
		Pressure center			
	4-position	Dual 3-port valve	27		

JSY5000 Series

Valve model	Т	Weight [g]		
	2-position	Single	91	
	z-position	Double	100	
JSY5□00	3-position	Closed center		
J313_00		Exhaust center	110	
		Pressure center		
	4-position	Dual 3-port valve	96	

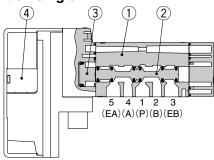
JSY3000 Series

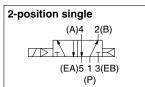
Valve model	Т	Weight [g]		
	2 position	Single	54	
	2-position	Double	63	
JSY3□00		Closed center		
J313_00	3-position	Exhaust center	67	
		Pressure center		
	4-position	Dual 3-port valve	63	

JSY1000/3000/5000 Series Valve Construction

Rubber Seal

2-position single

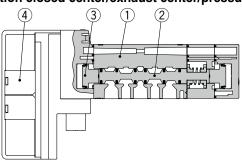


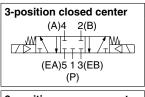


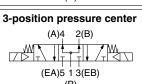
2-position double 2-position double (A)4 2(B)

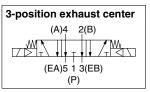
(EA)5 1 3(EB)

3-position closed center/exhaust center/pressure center

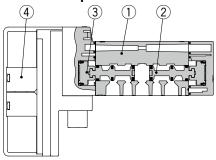


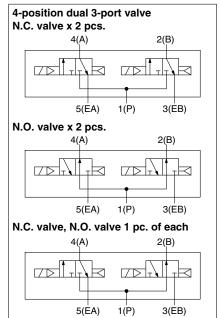






4-position dual 3-port valve





Component Parts

00	ipononii anto	
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	_

Chart

Valve

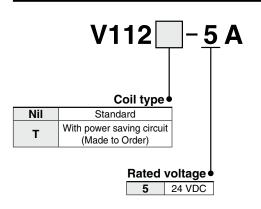
Plug-in Connector Connecting Base

Flat Ribbon

ire Termin Block

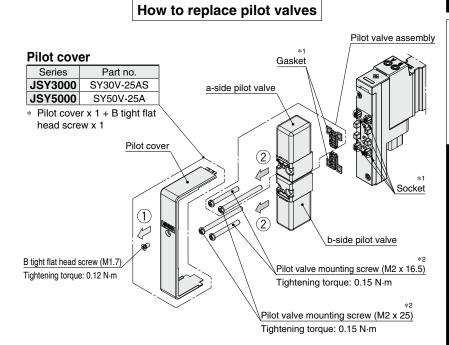
JSY3000/5000 Series Valve Replacement Parts: Pilot Valve

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



⚠ Caution

- The coil specification and voltage (including light/ surge voltage suppressor) cannot be changed by changing the pilot valve assembly.
- 2. When selecting the standard coil type, it is not possible to change to the power saving circuit type.
- 3. Replacement pilot valve for the JSY3000/5000



- 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.

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	
Manifo	ld type					Plug-in cor	nector conne	ecting base				
SUP/E	XH port type		Common SUP/EXH (Common for 3/5 port)									
Valve s	tations		2 to 24 stations 2 to 18 stations 2 to 8 stations 2 to 24 stations 2 to 18 stations 2						2 to 8 stations			
Applie	ahla aannaatar		D-sub connector conforming to	Dedicated connector	D-sub connector conforming to				able connecto 3503 (Refer to	-		
Applica	Applicable connector		,	(Refer to page 37.)	MIL-C-24308 (Refer to page 37.)	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type	Socket: 26 pins MIL type	Socket: 20 pins MIL type	Socket: 10 pins MIL type	
Internal wiring				Positive common, Negative common								
	1(D) 0(E(E)	JSY1000		ø8 One-touch fitting								
	1(P), 3/5(E) port JSY3000		ø10 One-touch fitting									
Port	port	JSY5000	ø12 One-touch fitting									
size	4(A) O(D)	JSY1000		ø2 One-touch fitting, ø4 One-touch fitting, ø6 One-touch fitting								
	4(A), 2(B) port	JSY3000		ø6 One-touch fitting, ø8 One-touch fitting								
	port	JSY5000			Ø	10 One-touch	fitting, ø12 C	ne-touch fitti	ng			
		JSY1000		_	IP20					IP20		
	Enclosure (Based on IEC60529)	JSY3000	IP40	IP67	20		IP40					
		JSY5000		11 07	_				_			

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

Manifold Weight

											Unit: g	
				② Wiring								
Model		① Per station	D-sub connector			Flat ribbon cable						
			F type	FW type*2	FC type*3	P type	PG type	PH type	PC type*3	PGC type*3	PHC type*3	
ICV4000	for ø4	21.3	308	_	233	306	304	298	233	231	225	
JSY1000	for ø6	26.9	319	_	244	317	315	309	244	242	236	
JSY3000) for ø8	42.7	332	330	287	330	328	322	257	255	249	
JSY5000) for ø12	104	509	507	_	507	505	499	_	_	_	
									·			

Formula for manifold weight*1

 $W = 1 \times n + 2$ (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	$1 \rightarrow 4/2 \; (P \rightarrow$	A/B)	4/2 → 3/5 (A/B	$4/2 \rightarrow 3/5 \text{ (A/B} \rightarrow \text{E)}$			
	(P, E)	(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b			
JJ5SY1-10	C8	C4	0.63	0.46	0.87	0.47			
(Side ported)		C6	0.96	0.30	0.91	0.48			
JJ5SY3-10 (Side ported)	C10	C8	2.23	0.30	2.77	0.27			
JJ5SY5-10 (Side ported)	C12	C12	6.40	0.22	6.59	0.22			

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

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

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



Terminal I	block box	Lead wire		Serial wiring				
T type	TC type	L type	S6□ type (EX600)	SA□ type (EX245)	S□ type (EX250)	S□ type (EX260)	S3□ type (EX120)	
			Plug-in connector	connecting base				
		С	Common SUP/EXH (Common for 3/5 po	rt)			
2 to 20 stations			2 to 24	stations			2 to 16 stations	
Positive common, Negative common Negative common Positive common, Negative common								
 ø8 One-touch fitting								
ø one-touch fitting								
ø12 One-touch fitting								
ø2 One-touch fitting, ø4 One-touch fitting								
ø6 One-touch fitting, ø8 One-touch fitting								
		Ø.	10 One-touch fitting,	ø12 One-touch fitti	ng			
			IP40					
	IP67		IP67 (I/O unit: partially IP40)	IP65	IP67	IP67 D-sub communication connector: IP40	IP20	

Unit: g	

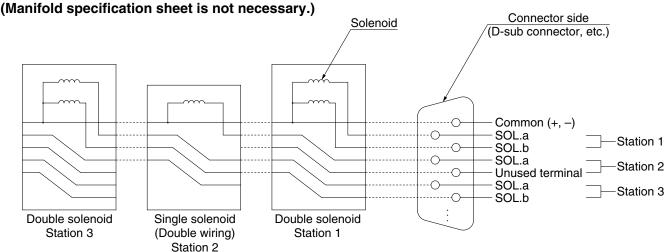
	② Wiring								
Terminal	Terminal block box Lead wire				Serial wiring				
T type	TC type	L type (0.6 m)	L type (1.5 m)	L type (3 m)	S6□ type (EX600)*4	SA□ type (EX245)*4	S□ type (EX250)*4	S□ type (EX260)	S3□ type (EX120)
680	471	404	514	698	829	_	520	448	367
689	480	413	523	707	838	_	529	457	367
709	500	433	543	727	858	935	549	477	391
914	705	638	748	932	1063	1100	754	682	568

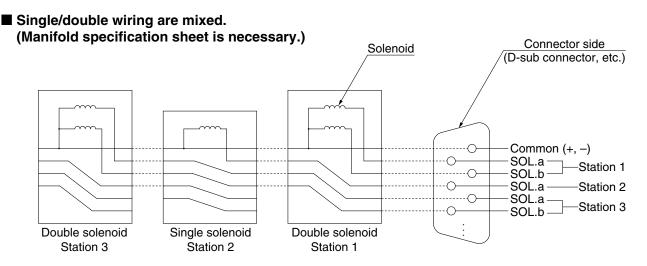
- *1 Weight: W is the value of the internal pilot, and maximum manifold size with tube fitting type. Valve is not included. To obtain the weight with valves attached, add the valve weights given on page 12 for the appropriate number of stations.
- *2 FW type is not available for the JSY1000.
- *3 FC, PC, PGC, PHC types are not available for the JSY5000.
- *4 Serial unit weight is included, but I/O unit is not included. Add the weight for calculation when I/O unit is added.

Connector Wiring Layout

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

■ Single solenoid valve is installed to all double wiring. (in the case of all double wiring)





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

Plug-in Connector Connecting Base

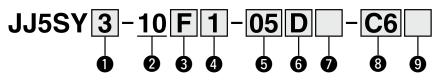
D-sub Connector Flat Ribbon Cable

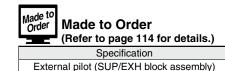
Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds





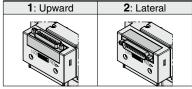
1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type

10	Side ported

4 Connector entry direction



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

6 P. E port entry

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

SUP/EXH block assembly

Nil	Internal pilot
s	Internal pilot,
	Built-in silencer

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

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	1
C4		ø4	•	_	_	
C6	其	ø6	•	•	_	
C8	Straight	ø8	_	•	_	
C10		ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	OK 100
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

Mounting and Option

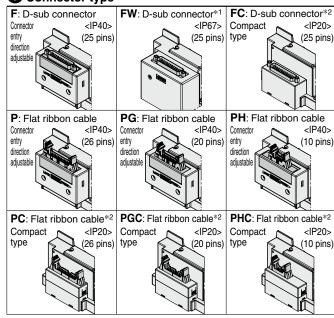
	<u> </u>			
Symbol		Mounting		
	Nil	Direct mounting		
	D□	DIN rail mounting		

DIN Rail Option

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

- * Enter the number of stations inside \(\precedent \) 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.

Connector type



- *1 FW is not available for the JSY1000.
- *2 Compact type is not available for the JSY5000.

5 Valve stations

F/FW/FC: D-sub connector (25 pins) P/PC: Flat ribbon cable (26 pins)

,	THE TATE OF B CONTROCTOR (LO PINO)				
S	Note	Stations	Symbol		
		2 stations	02		
	Double wiring*1	:	:		
		12 stations	12		
2 (Specified layout*2	2 stations	02		
	(Up to 24	:	:		
e) [solenoids available)	24 stations	24		

PG/F	PG/PGC: Flat ribbon cable (20 pins)			
Symbol	Symbol Stations Note			
02	2 stations			
:	:	Double wiring*1		
09	9 stations	_		
02	2 stations	Specified layout*2		
	:	(Up to 18		
18	18 stations	solenoids available)		
	.1 Davida viinina O pasitian single			

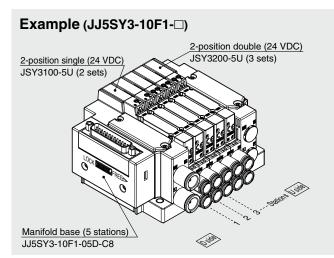
Symbol	Stations	Note	
02	2 stations	Double wiring*1	
	:		
12	12 stations		
02	2 stations	Specified layout*2 (Up to 24 solenoids available)	
1	:		
24	24 stations		

PH/PHC: Flat ribbon cable (10 pins)

	Symbol	Stations	Note	
1	02	2 stations		
	1	:	Double wiring*1	
	04	4 stations		
	02	2 stations	Specified layout*2	
	- :	:	. (Up to 8	
	08	8 stations	solenoids available)	
_				

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

How to Order Manifold Assembly



- JJ5SY3-10F1-05D-C8 \cdots 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U------2 sets (2-position single part no.)
- * JSY3200-5U 3 sets (2-position double part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

Chart

Valve

EX600 Lead Wire

EX250

EX260

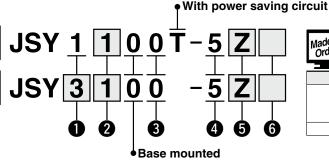
EX120

Exploded View

Fittings, Replacement Parts, Tools

JSY1000 Series

JSY3000/5000 Series



Made to Order
(Refer to page 114 for details.)

Specification

With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

1 Series

<u> </u>		
	1	JSY1000
	3	JSY3000
	5	JSY5000

Pilot valve exhaust method Pilot valve individual exhaust

_			
A	Rated	voltage	

W Rai	ed voltage	
5	24 VDC	

2 Type of actuation

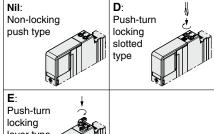
1	2-position	Single	
2		Double	
3		Closed center	
4	3-position	Exhaust center	
5		Pressure center	
Α		N.C./N.C.	
B C	4-position dual 3-port	N.O./N.O.	
	duai 3-port	N.C./N.O.	

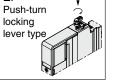
5 Light/surge voltage suppressor and common specification

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

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

6 Manual override





- Push-turn locking lever type "E" is not available for the JSY1000.
- * When ordering a valve individually, the base gasket is not included.

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

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

\triangle		ve class (Mark:ଐ

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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



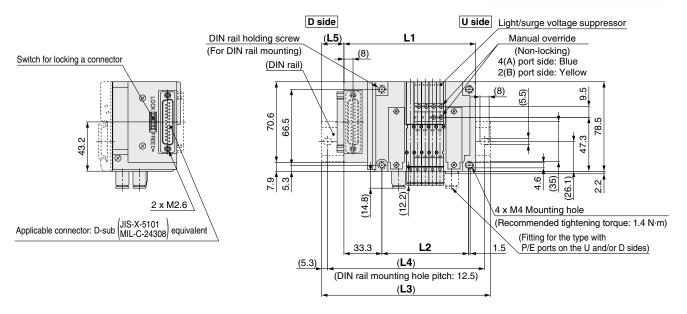
Type 10/Side Ported (Applicable to ©2 and ©4 fittings)

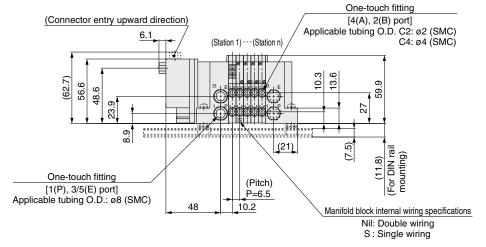
D-sub Connector (IP40/Connector Entry Direction Adjustable)

Dimensions: JSY1000 Series

JJ5SY1-10 F_2^1 -Stations $_{\rm D}^{\rm U}$ - $_{\rm C4}^{\rm C2}$ (D)







- * 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: Dimensions n: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	96	102.5	109	115.5	122	128.5	135	141.5	148	154.5	161	167.5	174	180.5	187
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18	21

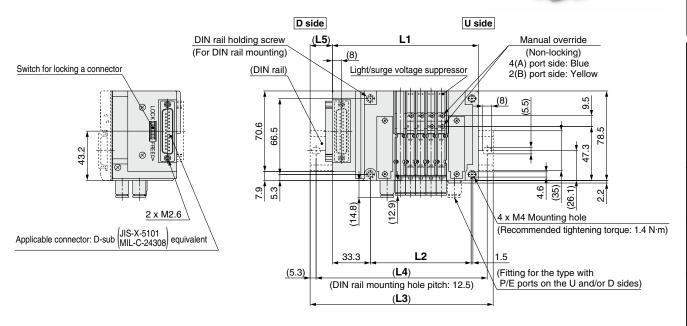
	17	18	19	20	21	22	23	24
L1	193.5	200	206.5	213	219.5	226	232.5	239
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	223	235.5	248	248	260.5	260.5	273	273
L4	212.5	225	237.5	237.5	250	250	262.5	262.5
L5	18	21	24	20.5	23.5	20.5	23.5	20

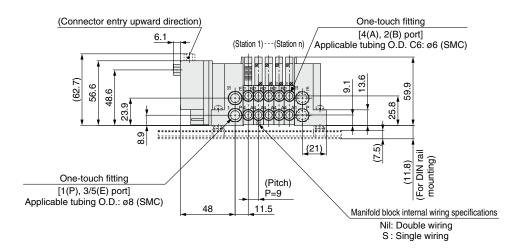


Dimensions: JSY1000 Series

JJ5SY1-10 F_2^1 -Stations $\stackrel{\text{U}}{\text{P}}$ -C6(D)







- * 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: Dimensions n: Stations

_	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	L1	101	110	119	128	137	146	155	164	173	182	191	200	209	218	227
	L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
	L3	135.5	148	160.5	160.5	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5
	L4	125	137.5	150	150	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250
	L5	20.5	22	24	19.5	21	23	18.5	20	22	23.5	19	21	22.5	18	20

L n	17	18	19	20	21	22	23	24
L1	236	245	254	263	272	281	290	299
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	273	285.5	285.5	298	310.5	310.5	323	335.5
L4	262.5	275	275	287.5	300	300	312.5	325
L5	21.5	23.5	19	20.5	22.5	18	19.5	21.5



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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

EX250 EX600 Lead Wire

EX260

EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools

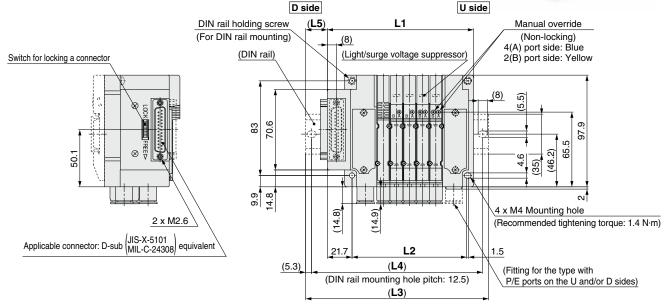
Type 10/Side Ported

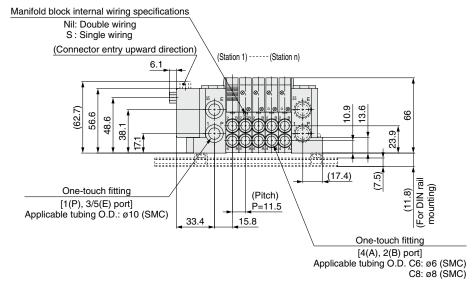
Dimensions: JSY3000 Series

JJ5SY3-10 F_2^1 -Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C6}}{\text{C8}}$ (D)

D-sub Connector (IP40/Connector Entry Direction Adjustable)







- * These figures show the "JJ5SY3-10F2-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

	.00.0.													•	0
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	93.8	105.3	116.8	128.3	139.8	151.3	162.8	174.3	185.8	197.3	208.8	220.3	231.8	243.3	254.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275
L5	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	18	18.5

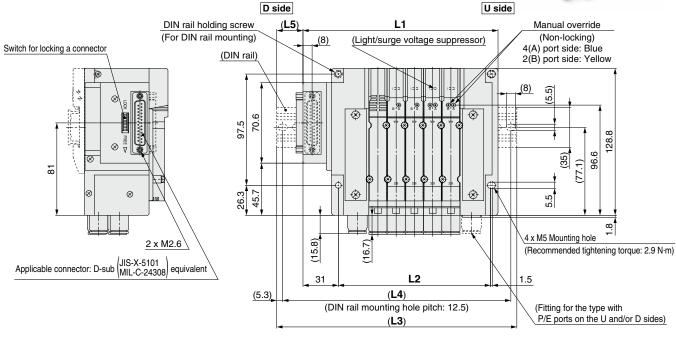
L n	17	18	19	20	21	22	23	24
L1	266.3	277.8	289.3	300.8	312.3	323.8	335.3	346.8
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	298	310.5	323	335.5	348	360.5	373	385.5
L4	287.5	300	312.5	325	337.5	350	362.5	375
L5	19	19.5	20	20.5	21	21.5	22	22.5

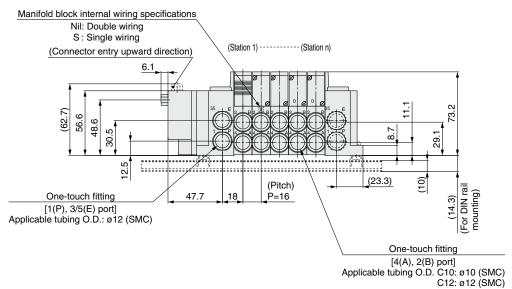


Dimensions: **JSY5000** Series

JJ5SY5-10F₂¹-Stations P-C₁₂ (D)







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

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

L: Dimensions	n

L: Dim	ension	ıs												r	n: 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

L n	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

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Chart

Valve

Terminal Block

EX250 EX600 Lead Wire

EX260

EX120

Common Dimensions

Manifold Exploded View

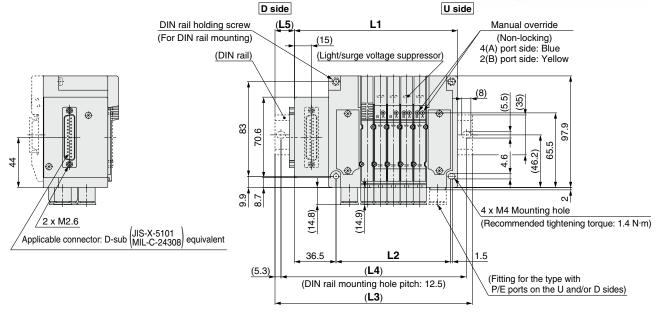
Type 10/Side Ported

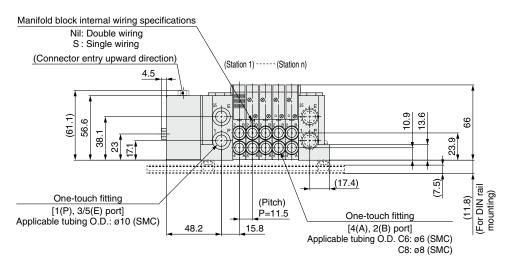
Dimensions: JSY3000 Series

D-sub Connector (IP67)

JJ5SY3-10FW $_2^1$ -Stations $_{\rm P}^{\rm U}$ - $_{\rm C8}^{\rm C6}$ (D)







- * These figures show the "JJ5SY3-10FW2-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

			. •													
$\overline{}$	n	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
I	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
ı	L4	137.5	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	287.5
	L5	22	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5	21	21.5	22	16.5

L	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

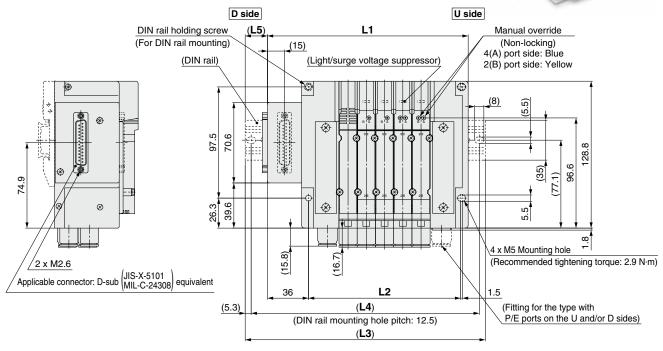


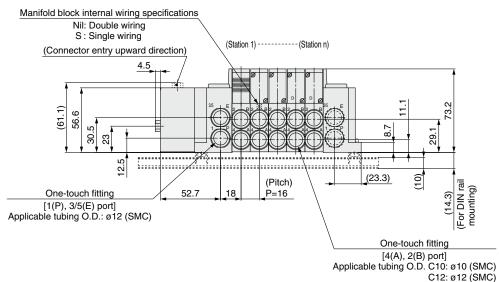
Type 10/Side Ported

Dimensions: **JSY5000** Series

JJ5SY5-10FW₂¹-Stations D-C₁₂(D)







- These figures show the "JJ5SY5-10FW2-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations _n 2 3 4 5 6 8 9 10 11 12 13 14 15 16 7 L1 128 144 160 176 192 208 224 240 256 272 288 304 320 336 352 L2 85.5 101.5 117.5 133.5 149.5 165.5 181.5 197.5 213.5 229.5 245.5 261.5 277.5 293.5 309.5 L3 160.5 173 198 210.5 223 248 260.5 273 285.5 310.5 323 335.5 348 373 385.5 L4 150 162.5 187.5 200 212.5 237.5 250 262.5 275 300 312.5 325 337.5 362.5 375 L5 18.5 17 21.5 19.5 18 22.5 20.5 19 17 21.5 20 18 16.5 21 19

L_n	17	18	19	20	21	22	23	24
L1	368	384	400	416	432	448	464	480
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	398	423	435.5	448	460.5	485.5	498	510.5
L4	387.5	412.5	425	437.5	450	475	487.5	500
L5	17.5	22	20	18.5	16.5	21	19.5	17.5

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart Valve

Terminal Block

EX600 Lead Wire **EX250**

EX260

EX120 Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools

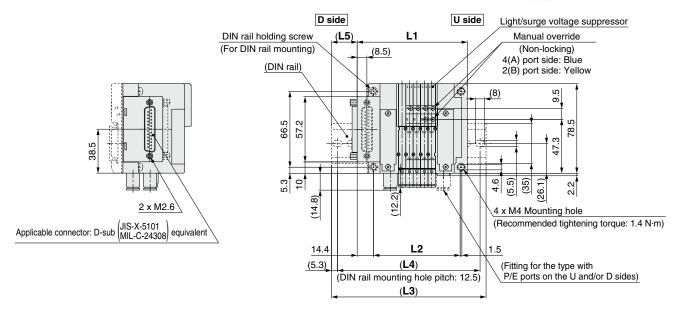
Dimensions: **JSY1000** Series

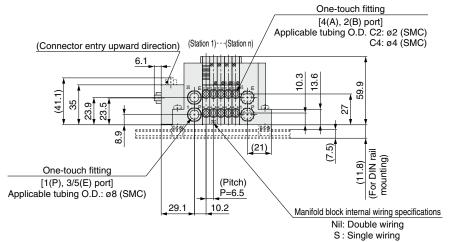
Type 10/Side Ported (Applicable to 02 and 04 fittings)

D-sub Connector (IP20/Compact Type)

JJ5SY1-10FC $_2^1$ -Stations $_{B}^{U}$ - $_{C4}^{C2}$ (D)







- * 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: Dimensions	n: Stations
---------------	-------------

L	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

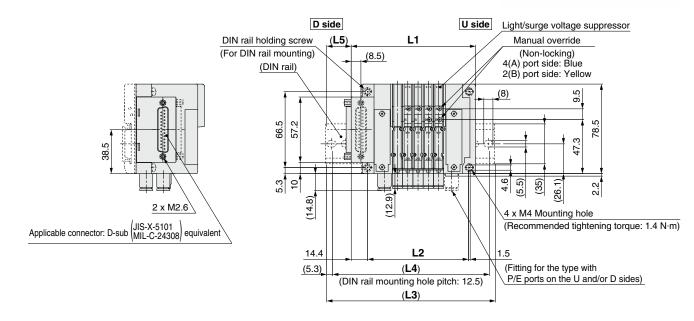
L	17	18	19	20	21	22	23	24
L1	174.6	181.1	187.6	194.1	200.6	207.1	213.6	220.1
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	210.5	210.5	223	235.5	235.5	248	248	260.5
L4	200	200	212.5	225	225	237.5	237.5	250
L5	21	18	21	24	20.5	23.5	20.5	23.5

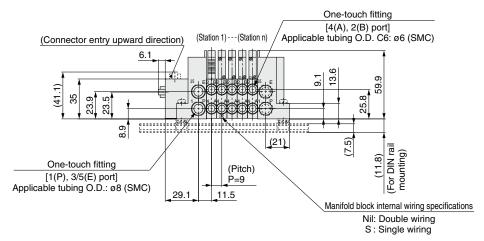
Type 10/Side Ported (Applicable to ø6 fittings) D-sub Connector (IP20/Compact Type)

Dimensions: JSY1000 Series

JJ5SY1-10FC $_2^1$ -Stations $_{\rm P}^{\rm U}$ -C6(D)







- * These figures show the "JJ5SY1-10FC2-05D-C6."
- Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L: Dimensions n: Stations

		. •													
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	82.1	91.1	100.1	109.1	118.1	127.1	136.1	145.1	154.1	163.1	172.1	181.1	190.1	199.1	208.1
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	123	123	135.5	148	148	160.5	173	185.5	185.5	198	210.5	210.5	223	235.5	248
L4	112.5	112.5	125	137.5	137.5	150	162.5	175	175	187.5	200	200	212.5	225	237.5
L5	23.5	19	21	22.5	18	20	21.5	23.5	19	20.5	22.5	18	19.5	21.5	23

L n	17	18	19	20	21	22	23	24
L1	217.1	226.1	235.1	244.1	253.1	262.1	271.1	280.1
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	248	260.5	273	285.5	285.5	298	310.5	310.5
L4	237.5	250	262.5	275	275	287.5	300	300
L5	18.5	20.5	22	24	19.5	21	23	18.5

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

EX250 EX600 Lead Wire

EX260 EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools

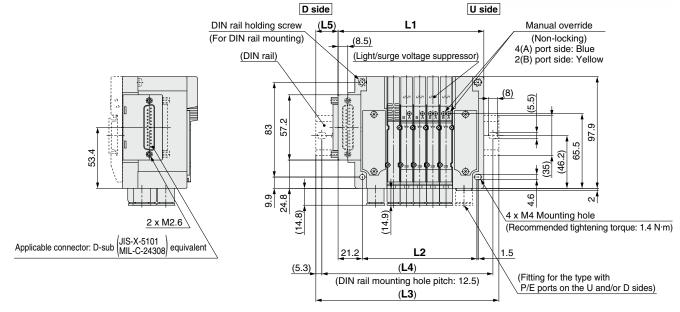
Type 10/Side Ported

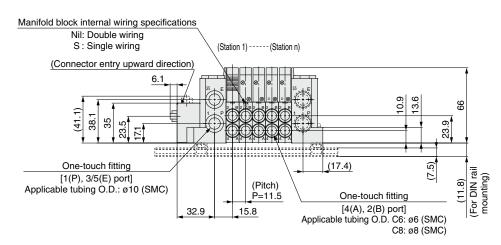
Dimensions: JSY3000 Series

D-sub Connector (IP20/Compact Type)

JJ5SY3-10FC $_2^1$ -Stations $_{\rm B}^{\rm U}$ - $_{\rm C8}^{\rm C6}$ (D)







- * These figures show the "JJ5SY3-10FC2-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: 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

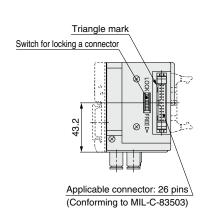
	17	18	19	20	21	22	23	24
L1	265.8	277.3	288.8	300.3	311.8	323.3	334.8	346.3
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	298	310.5	323	335.5	348	360.5	373	385.5
L4	287.5	300	312.5	325	337.5	350	362.5	375
L5	19	19.5	20	20.5	21	21.5	22	22.5

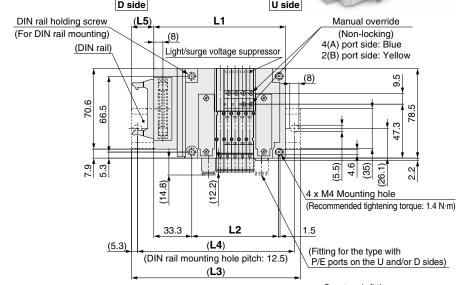
Dimensions: JSY1000 Series

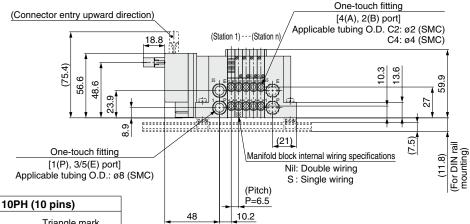
JJ5SY1-10 PG 1 - Stations D-C2 (D)

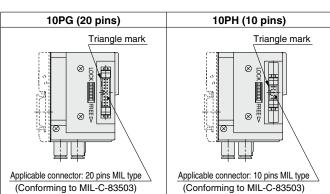
Type 10/Side Ported (Applicable to 02 and 04 fittings) Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)











- * These figures show the "JJ5SY1-10P2-05D-C4."
- * 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 and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

I · Dimensions

n: Stations

L. Diii															i. Otations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	96	102.5	109	115.5	122	128.5	135	141.5	148	154.5	161	167.5	174	180.5	187
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18	21

L	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

SMC

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart Valve

EX600 Lead Wire

EX250 EX260

EX120

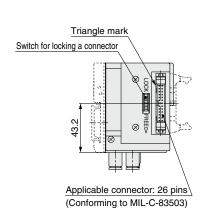
Common Dimensions

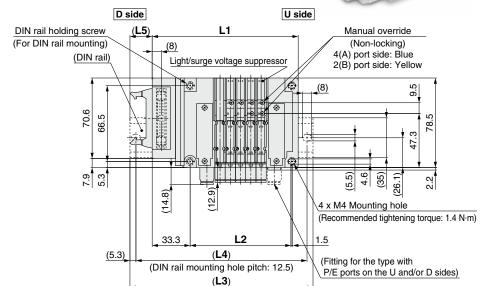
Exploded View

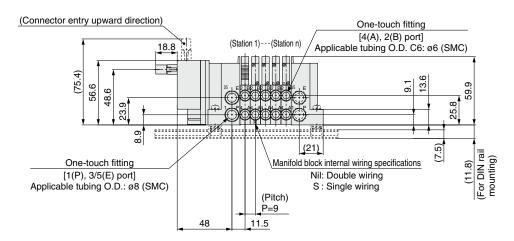
Dimensions: JSY1000 Series

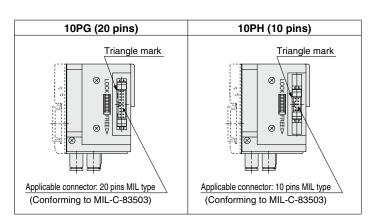
JJ5SY1-10 PG 1- Stations D-C6(D)











- * 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

L: Dimensions n: Stations n 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

_ \		U	-	-	U	•			10		12	10	17	10	10			13	20	21		20	
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



Dimensions: JSY3000 Series

Type 10/Side Ported
Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

JJ5SY3-10 PG 1 - Stations P - C6 (D)



Chart

Valve

EX250 EX600 Lead Wire

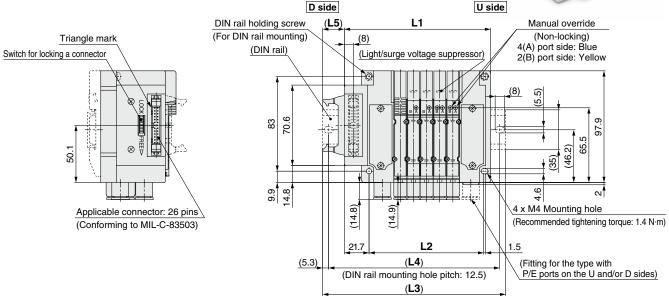
EX260

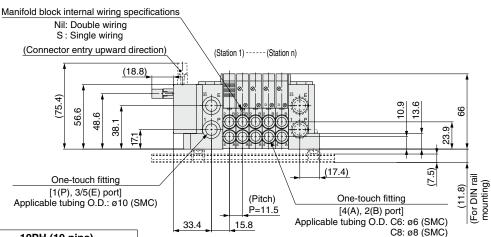
EX120

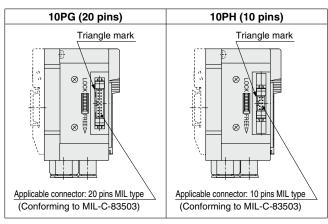
Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools







- * These figures show the "JJ5SY3-10P2-05D-C8."
- * Refer to page 90 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.

L: Dimensions

n: Stations

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

SMC

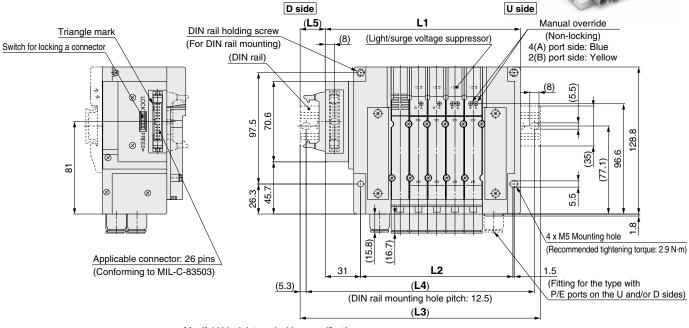
32

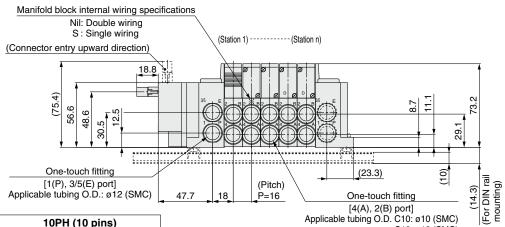
Type 10/Side Ported

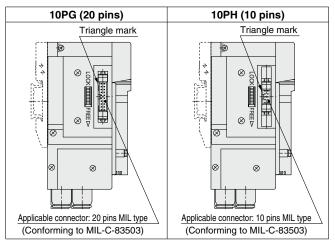
Dimensions: JSY5000 Series

Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

JJ5SY5-10 $\stackrel{PG}{\stackrel{1}{\tiny PG}}$ 1- Stations $\stackrel{U}{\stackrel{P}{\stackrel{}{\tiny D}}}$ - $\stackrel{C10}{\stackrel{C10}{\stackrel{}{\tiny C12}}}$ (D)







- * These figures show the "JJ5SY5-10P2-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

C12: ø12 (SMC)

 Only connectors are different for 10PG and 10PH. L1 to L5 dimensions are the same as 10P type.

_ \	_	•	-		•			9	10		12	10	17	10		.,	10	10	20	21		20	
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



Dimensions: JSY1000 Series

JJ5SY1-10 $\stackrel{P}{PG}$ C₂¹-Stations $\stackrel{U}{P}$ - $\stackrel{C2}{C4}$ (D)

Type 10/Side Ported (Applicable to Ø2 and Ø4 fittings) Flat Ribbon Cable (IP20/Compact Type)



Chart

Valve

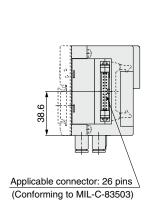
EX250 EX600 Lead Wire

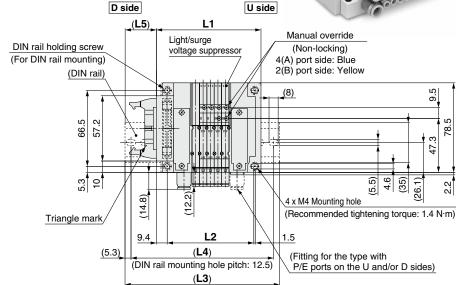
EX260

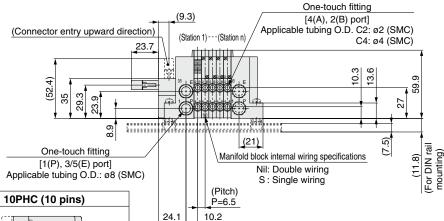
EX120

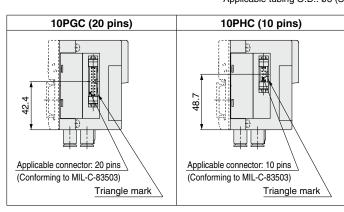
Common Dimensions

Exploded View









- * These figures show the "JJ5SY1-10PC2-05D-C4."
- * 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 and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

26.5

23.5

23.5

26.5

L: Dim	ension	S
L	2	

25

28

24.5

L5

-: DIII	ension	5												I	i. Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	72.1	78.6	85.1	91.6	98.1	104.6	111.1	117.6	124.1	130.6	137.1	143.6	150.1	156.6	163.1
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

27

24

27

	17	18	19	20	21	22	23	24
L1	169.6	176.1	182.6	189.1	195.6	202.1	208.6	215.1
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	26	23	26	29	25.5	28.5	25.5	28.5

27.5

24.5

27.5

SMC

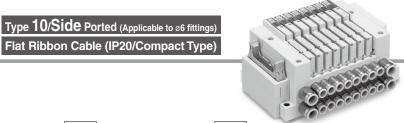
34

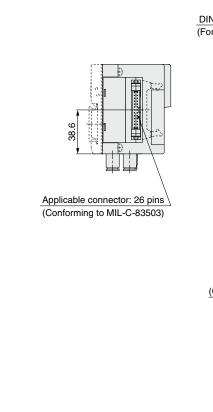
23

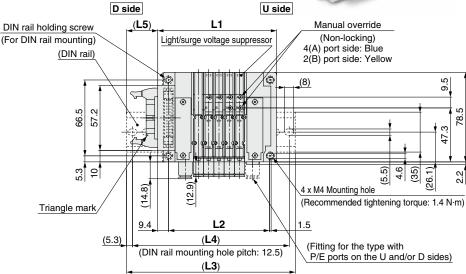
Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

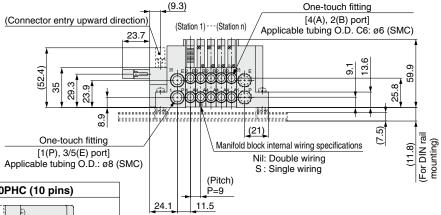
Dimensions: JSY1000 Series

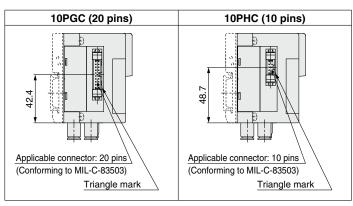
JJ5SY1-10 PG C2-Stations D-C6(D)











- * 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.

L: Dimensions n: 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

L	17	18	19	20	21	22	23	24
L1	212.1	221.1	230.1	239.1	248.1	257.1	266.1	275.1
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	248	260.5	273	285.5	285.5	298	310.5	310.5
L4	237.5	250	262.5	275	275	287.5	300	300
L5	23.5	25.5	27	29	24.5	26	28	23.5

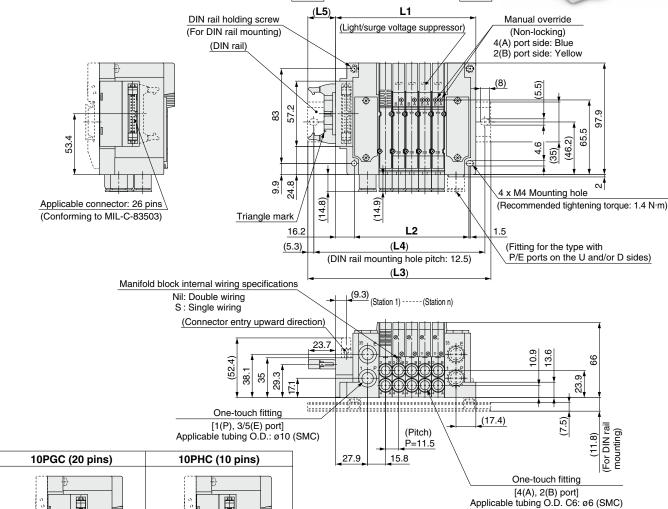
Type 10/Side Ported

D side

Dimensions: JSY3000 Series Flat Ribbon Cable (IP20/Compact Type)

JJ5SY3-10 PG C2-Stations P-C6 (D)





- * These figures show the "JJ5SY3-10PC2-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

C8: Ø8 (SMC)

Only connectors are different for 10PGC and 10PHC. L1 to L5 dimensions are the same as 10PC type.

L: Dimensions

Applicable connector: 20 pins

(Conforming to MIL-C-83503)

Triangle mark

n: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	88.3	99.8	111.3	122.8	134.3	145.8	157.3	168.8	180.3	191.8	203.3	214.8	226.3	237.8	249.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	273	285.5
L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	262.5	262.5	275
L5	23	23.5	24	24.5	25	25.5	26	26.5	27	27.5	28	28.5	29	23	23.5

L	17	18	19	20	21	22	23	24
L1	260.8	272.3	283.8	295.3	306.8	318.3	329.8	341.3
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	298	310.5	323	335.5	348	360.5	373	385.5
L4	287.5	300	312.5	325	337.5	350	362.5	375
L5	24	24.5	25	25.5	26	26.5	27	27.5

63.6

Applicable connector: 10 pins (Conforming to MIL-C-83503)

Triangle mark

Chart Valve

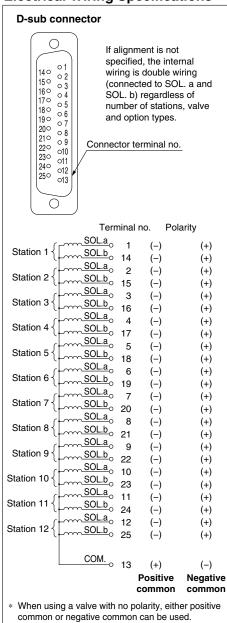
EX250 EX600 Lead Wire

EX260 EX120

Common Dimensions

Exploded View

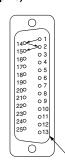
Electrical Wiring Specifications



Specified Layout

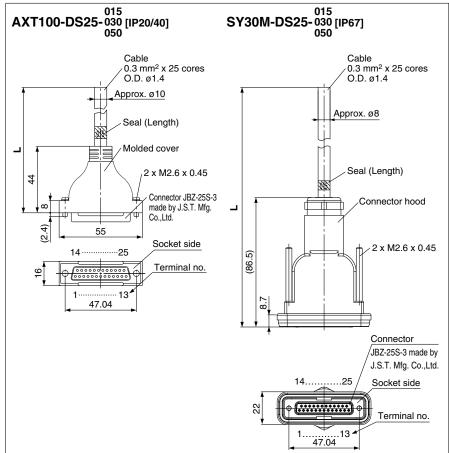
COM.

(25 pins)



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



D-sub connector cable [IP20/40 compliant]

Cable length (L)	Assembly part no.	Note
1.5 m	AXT100-DS25-015	
3 m	AXT100-DS25-030	Cable 0.3 mm ² x 25 cores
5 m	AXT100-DS25-050	0.5111111 X 25 00165

- When using a standard commercial connector, use a 25-pin type female connector conforming to MIL-C-24308.
- * Cannot be used for movable wiring.
- * Lengths other than the above are also available. Please contact SMC for details.

D-sub connector cable [IP67 compliant]

Cable length (L)	Assembly part no.	Note
1.5 m	SY30M-DS25-015	0.11
3 m	SY30M-DS25-030	
5 m	SY30M-DS25-050	0.511111
3 m	SY30M-DS25-030	Cable 0.3 mm ² x 25 co

- * Be sure to use the connector cable in the table, to satisfy enclosure IP67.
- * Cannot be used for movable wiring

Electrical characteristics

Item	Property		
Conductor resistance Ω/km, 20°C	65 or less		
Voltage limit V, 1 minute, AC	1000		
Insulation resistance MΩ/km, 20°C	5 or more		

Connector Manufacturers' Example

- Fujitsu Limited
- Japan Aviation Electronics Industry, Limited
- J.S.T. Mfg. Co., Ltd.
- HIROSE ELECTRIC CO., LTD.

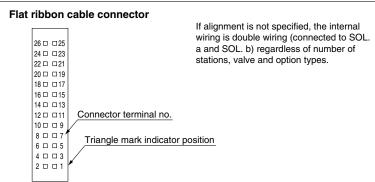
* The minimum bending radius of the D-sub connector cable is 20 mm

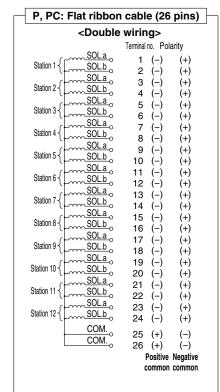
D-sub connector cable terminal numbers

Terminal no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Lead wire color	Black	Brown	Red	Orange	Yellow	Pink	Blue	Purple	Gray	White	White	Yellow	Orange	Yellow	Pink	Blue	Purple	Gray	Orange	Red	Brown	Pink	Gray	Black	White
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



Electrical Wiring Specifications





PG, PGC: Flat ribb	oon cable (20 pins)
<double< th=""><th>wiring></th></double<>	wiring>
	Terminal no. Polarity
Station 1 { SOL.a SOL.b SOL.b	1 (-) (+) 2 (-) (+)
Station 2 { SOL.b SOL.b SOL.a	3 (-) (+) 4 (-) (+)
Station 3 { SOL.b	5 (-) (+) 6 (-) (+)
Station 4 SOL.a SOL.a SOL.a	7 (-) (+) 8 (-) (+)
Station 5 { SOL.b	9 (-) (+) 10 (-) (+)
Station 6 SOL.a SOL.a SOL.a	11 (-) (+) 12 (-) (+)
Station 7 { SOL.b SOL.a SOL.a	13 (–) (+) 14 (–) (+)
Station 8 SOL.b	15 (–) (+) 16 (–) (+)
Station 9 { SOL.a SOL.b	17 (–) (+) 18 (–) (+)
COM.	19 (+) (-) 20 (+) (-)
	Positive Negative common common

PH, PHC: Flat ribbor	n cable (10 pins)
<double th="" v<=""><th>wiring></th></double>	wiring>
	### A Province of the common o

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

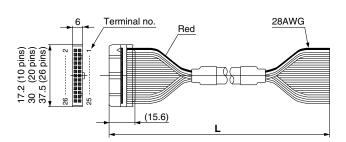
Valve

Plug-in Connector Connecting Ba



Flat Ribbon Cable Connector

AXT100-FC 20-2 26 3



Flat ribbon cable connector

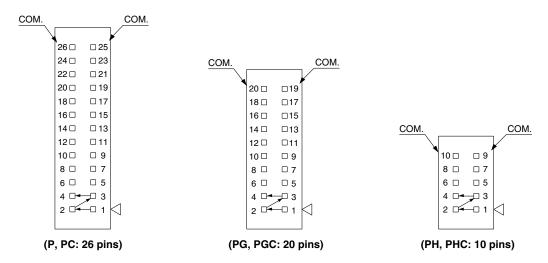
Cable	Assembly part no.						
length (L)	26 pins	20 pins	10 pins				
1.5 m	AXT100-FC26-1	AXT100-FC20-1	AXT100-FC10-1				
3 m	AXT100-FC26-2	AXT100-FC20-2	AXT100-FC10-2				
5 m	AXT100-FC26-3	AXT100-FC20-3	AXT100-FC10-3				

- * When using a standard commercial connector, use a 26-pin, 20-pin or 10-pin type connector conforming to MIL-C-83503 with strain relief.
- Cannot be used for movable wiring.
- * Lengths other than the above are also available. Please contact SMC for details.

Connector Manufacturers' Example

- HIROSE ELECTRIC CO., LTD.
- 3M Japan Limited
- Fujitsu Limited
- Japan Aviation Electronics Industry, Limited
- J.S.T. Mfg. Co., Ltd.
- Oki Electric Cable Co., Ltd.

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.

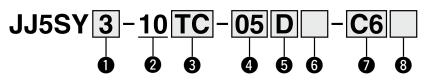
Plug-in Connector Connecting Base

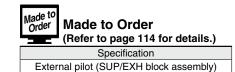
Spring Type Terminal Block Box Terminal Block Box

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds





0 s	eries

• • • • • • • • • • • • • • • • • • • •					
1	JSY1000				
3	JSY3000				
5	JSY5000				

② Typ	ре
10	Side ported

3 Wiring

	<u> </u>
TC	Spring type terminal block box
Т	Terminal block box

4 Valve stations

TC: Spring	type terminal block box	T: Te	ermina	l block box
Symbol Stations	Note	Symbol	Stations	Note

Symb	ol Stations	Note	Symbol	Stations	Note
02	2 stations		02	2 stations	
:	1	Double wiring*1	:	i :	Double wiring*1
16	16 stations		10	10 stations	
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2
	1 :	(Up to 32 solenoids	:	i :	(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.

P, E port entry

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

6 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * 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.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	~2
C4		ø4 • —	_			
C6	톺	ø6	•	•	_	
C8	Straight	ø8	_	•	_	
C10	ळ	ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	- OF Jee
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

8 Mounting and Option

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

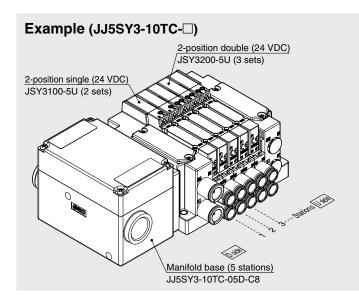
- * Enter the number of stations inside \square when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 118 for the fixation of DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN ra	DIN rail mounting (With DIN rail)								
0	DIN rail mounting (Without DIN rail)									
3	For 3 stations	Consider a language wail them								
i	÷	Specify a longer rail than the standard length.								
24	For 24 stations	ine standard length.								



How to Order Manifold Assembly



- JJ5SY3-10TC-05D-C8 ··· 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U 2 sets (2-position single part no.)
- JSY3200-5U 3 sets (2-position double part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · The valve arrangement is numbered as the 1st station from the D side.

With power saving circuit

Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

Made to Order

(Refer to page 114 for

Specification

Chart

Valve

Plug-in

Flat Ribbon

Lead Wire

EX600

EX250

EX260

EX120

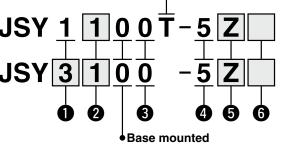
Common Dimensions

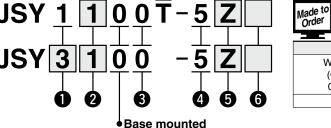
Exploded View

Fittings, Replacement Parts, Tools

JSY1000 Series

JSY3000/5000 Series





With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

details.)

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method

_	
0	Pilot valve individual exhaust

4 Rated voltage

5	24 VDC

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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

Type of actuation

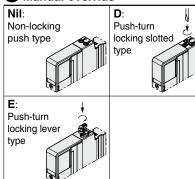
1	2-position	Single					
2	2-008111011	Double					
3		Closed center					
4	3-position	Exhaust center					
5		Pressure center					
Α	4 manikina	N.C./N.C.					
В	4-position dual 3-port	N.O./N.O.					
С	duai 5-port	N.C./N.O.					

5 Light/surge voltage suppressor and common specification

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

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

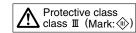
6 Manual override



- Push-turn locking lever type "E" is not available for the JSY1000.
- * When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance

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



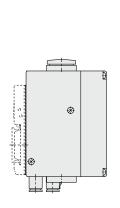


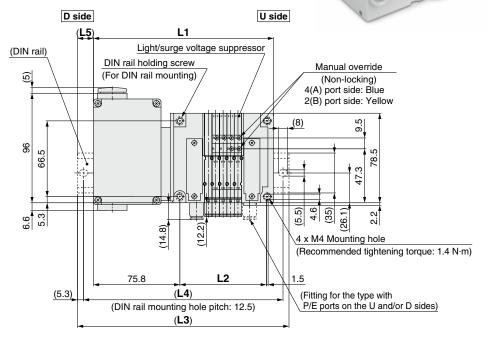
42

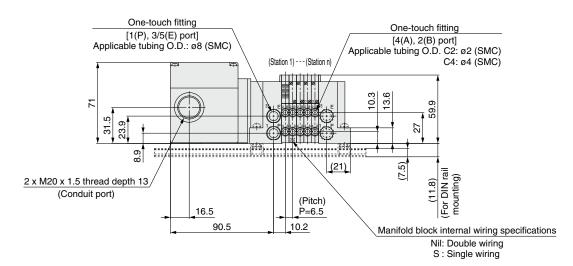
Dimensions: JSY1000 Series

JJ5SY1-10TC-Stations D-C2 (D)









- * These figures show the "JJ5SY1-10TC-05D-C4."
- * Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

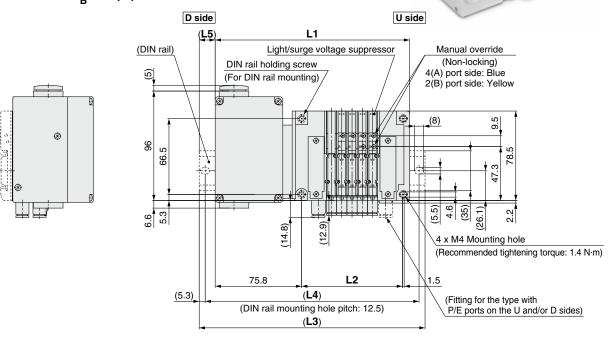
L: Dimensions n: Stations

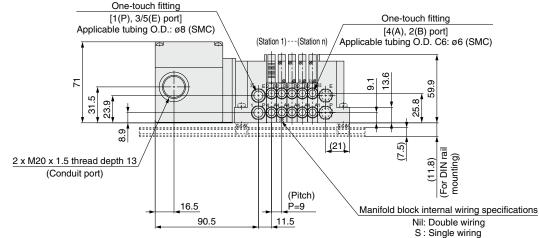
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	138.5	145	151.5	158	164.5	171	177.5	184	190.5	197	203.5	210	216.5	223	229.5
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	173	173	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5
L4	162.5	162.5	175	175	187.5	187.5	200	200	212.5	212.5	225	225	237.5	237.5	250
L5	17.5	14	17	14	17	13.5	16.5	13.5	16.5	13	16	13	16	12.5	15.5

n	17	18	19	20	21	22	23	24
L1	236	242.5	249	255.5	262	268.5	275	281.5
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	260.5	273	273	285.5	285.5	298	310.5	310.5
L4	250	262.5	262.5	275	275	287.5	300	300
L5	12.5	15.5	12	15	12	15	18	14.5

Type 10/Side Ported (Applicable to ø6 fittings) Dimensions: JSY1000 Series Spring Type Terminal Block Box

JJ5SY1-10TC-Stations U-C6(D)





- * 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: Dimensions n: Stations

														•	
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	143.5	152.5	161.5	170.5	179.5	188.5	197.5	206.5	215.5	224.5	233.5	242.5	251.5	260.5	269.5
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	173	185.5	185.5	198	210.5	223	223	235.5	248	248	260.5	273	285.5	285.5	298
L4	162.5	175	175	187.5	200	212.5	212.5	225	237.5	237.5	250	262.5	275	275	287.5
L5	15	16.5	12	14	15.5	17.5	13	14.5	16.5	12	13.5	15.5	17	12.5	14.5

Ln	17	18	19	20	21	22	23	24
L1	278.5	287.5	296.5	305.5	314.5	323.5	332.5	341.5
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	310.5	323	323	335.5	348	348	360.5	373
L4	300	312.5	312.5	325	337.5	337.5	350	362.5
L5	16	18	13.5	15	17	12.5	14	16

Chart Valve

Plug-in D-sub Flat Ribbon

EX250 EX600 Lead Wire

EX260

EX120

Common Dimensions

Exploded View

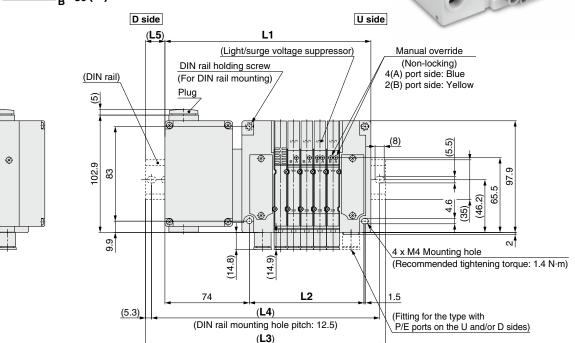
Fittings, Replacement Parts, Tools

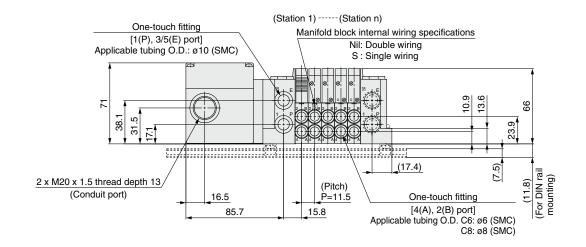
Type 10/Side Ported

Dimensions: JSY3000 Series

Spring Type Terminal Block Box

JJ5SY3-10TC-Stations P-C6 (D)





- * These figures show the "JJ5SY3-10TC-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

L	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

L	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



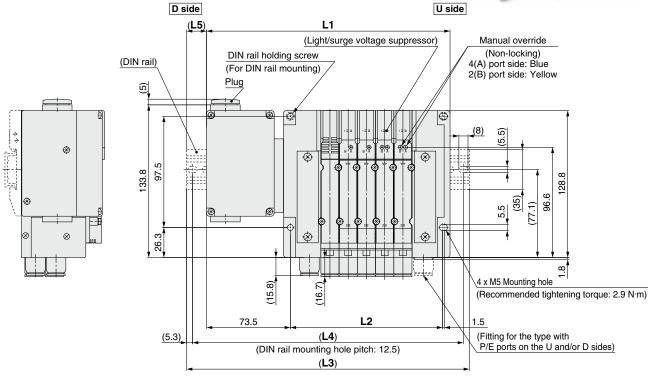
Type 10/Side Ported

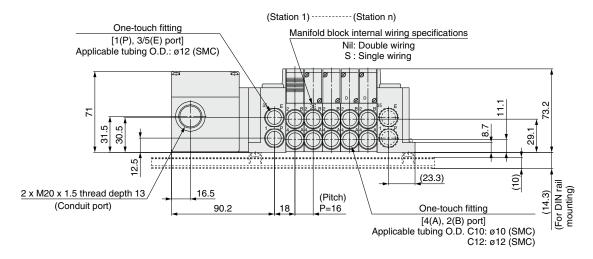
Dimensions: **JSY5000** Series

Spring Type Terminal Block Box

JJ5SY5-10TC-Stations D-C10(D)







- These figures show the "JJ5SY5-10TC-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

I . D:	:	

n: Stations L: Dimensions _n 3 4 5 6 7 8 9 10 11 12 13 14 15 2 16 L1 309.5 165.5 181.5 197.5 213.5 229.5 245.5 261.5 277.5 293.5 325.5 341.5 357.5 373.5 389.5 L2 85.5 101.5 117.5 133.5 149.5 165.5 181.5 197.5 213.5 229.5 245.5 261.5 277.5 293.5 309.5 L3 198 210.5 223 248 260.5 273 285.5 310.5 323 335.5 360.5 373 385.5 398 423 L4 187.5 200 212.5 237.5 250 262.5 275 300 312.5 325 350 362.5 375 387.5 412.5 L5 16.5 14.5 13 17.5 14 12 16.5 15 13 17.5 12.5 17 15.5 16 14

L_n	17	18	19	20	21	22	23	24
L1	405.5	421.5	437.5	453.5	469.5	485.5	501.5	517.5
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	435.5	448	473	485.5	498	510.5	535.5	548
L4	425	437.5	462.5	475	487.5	500	525	537.5
L5	15	13.5	18	16	14.5	12.5	17	15.5

46

Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

Plug-in

D-sub Flat Ribbon

EX600 Lead Wire

EX250

EX260 EX120

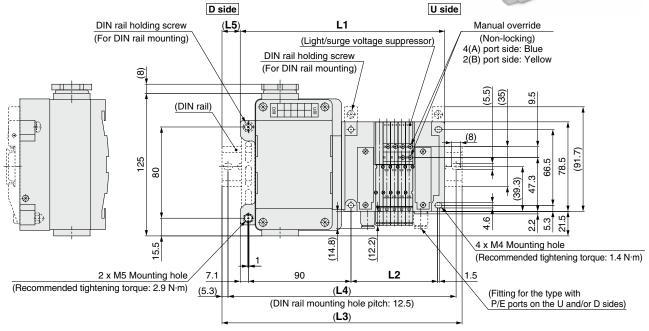
Common Dimensions Exploded View

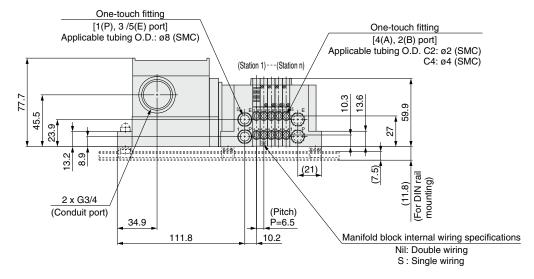
Fittings, Replacement Parts, Tools

Dimensions: **JSY1000** Series

JJ5SY1-10T-Stations P-C2 (D)







- * These figures show the "JJ5SY1-10T-05D-C4."
- Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size and C6 (9 mm pitch) is included, refer to page 92 for dimensions.

L: Dimensions n: Stations

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

L	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



Dimensions: JSY1000 Series

JJ5SY1-10T-Stations P-C6(D)

Type 10/Side Ported (Applicable to Ø6 fittings) Terminal Block Box



Chart

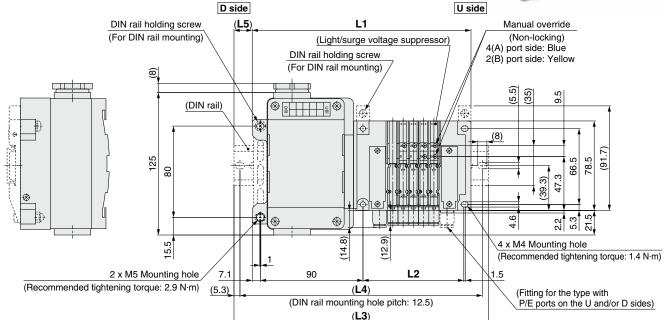
Valve

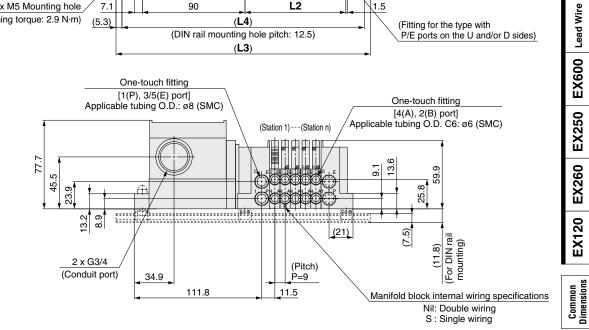
Plug-in Connector Connecting Base

D-sub Flat Ribbon

Exploded View

Fittings, Replacement Parts, Tools





- * 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.

|--|

n: Stations

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

L_n	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



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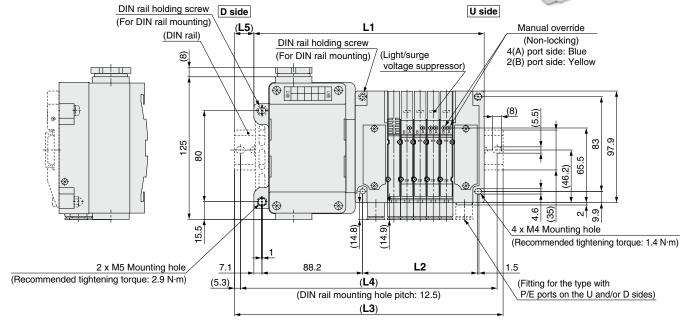
Type 10/Side Ported

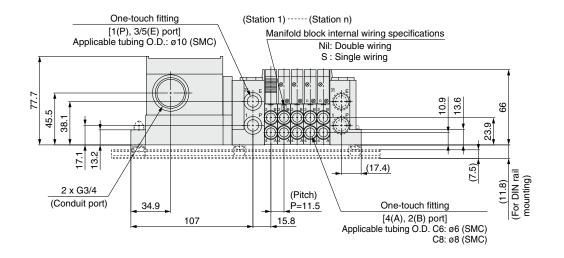
Dimensions: **JSY3000** Series

Terminal Block Box

JJ5SY3-10T-Stations $\stackrel{\text{U}}{\mathbb{R}}$ - $\stackrel{\text{C6}}{\mathbb{C}}$ (D)







- * These figures show the "JJ5SY3-10T-05D-C8."
- $\ast\,$ Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

Ĺ	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	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



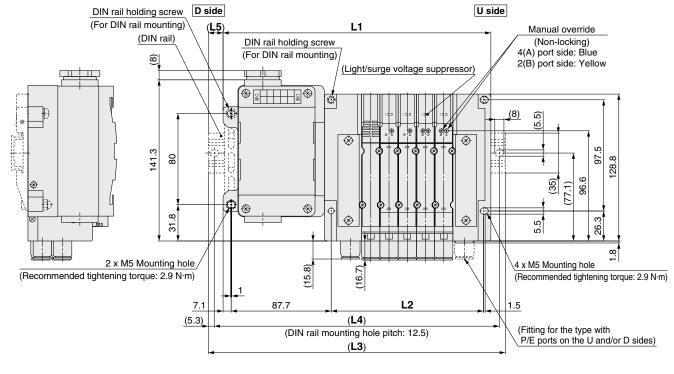
Type 10/Side Ported

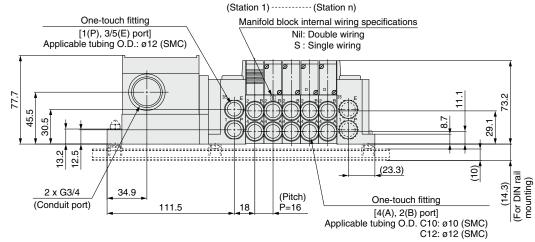
Dimensions: **JSY5000** Series

JJ5SY5-10T-Stations D-C12 (D)

Terminal Block Box







- * These figures show the "JJ5SY5-10T-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L:	Di	im	ıe	ns	İΟ	n	S

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

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	L	17	18	19	20
L3 460.5 473 485.5 498 L4 450 462.5 475 487.5	L1	426.8	442.8	458.8	474.8
L4 450 462.5 475 487.5	L2	325.5	341.5	357.5	373.5
2. 100 1000 100	L3	460.5	473	485.5	498
	L4	450	462.5	475	487.5
L5 17 15 13.5 11.5	L5	17	15	13.5	11.5

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

Plug-in

D-sub Flat Ribbon

EX250 EX600 Lead Wire

EX260 EX120

Common Dimensions

Exploded View

Spring Type Terminal Block "TC" Connection

Step 1. Remove the terminal block cover. Loosen the 4 mounting screws (M3) to remove the terminal block cover. Mounting screw (M3) Drip proof plug (SY30M-133-1) is mounted Tightening torque: 0.8 N·m

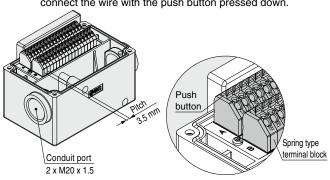
Step 3. Mount the terminal block cover.

Securely tighten the mounting screws (M3) to the torque shown below only after confirming that the gasket is installed correctly.

Proper tightening torque [N·m]
0.54 to 0.66

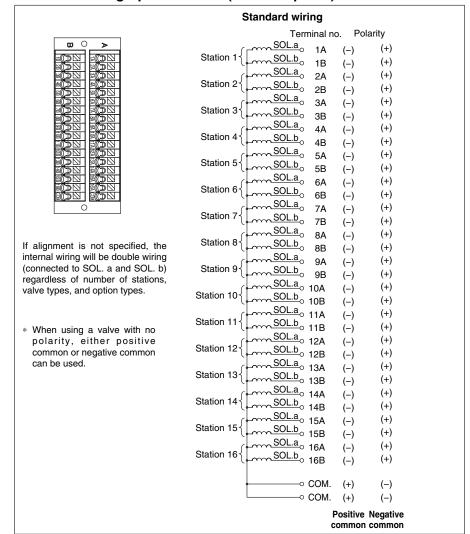
Step 2. The diagram below shows the terminal block wiring. All stations are provided with double wiring regardless of the mounted valves.

Connect each wire to the power supply side, according to the markings provided inside the terminal block. Be sure to connect the wire with the push button pressed down.



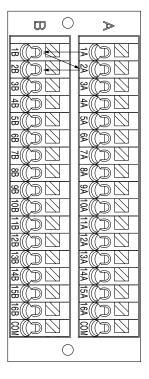
• Applicable wire range: Conductor diameter Ø0.5 to Ø1.2 mm, Stranded wire AWG24 to 16

Electrical Wiring Specifications (IP67 compliant)



Specified Layout

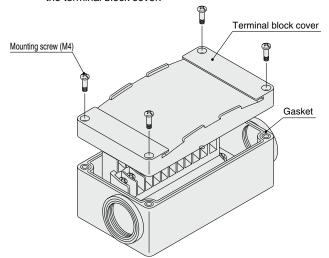
A mixture of single and double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 32 or less. 1 solenoid is required for the 2-position single, and 2 solenoids for the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



Terminal Block "T" Connection

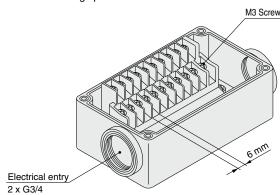
Step 1. Remove the terminal block cover.

Loosen the 4 mounting screws (M4) to remove the terminal block cover.



Step 2. The diagram below shows the terminal block wiring. All stations are provided with double wiring regardless of the mounted valves.

> Connect each wire to the power supply side, according to the markings provided inside the terminal block.



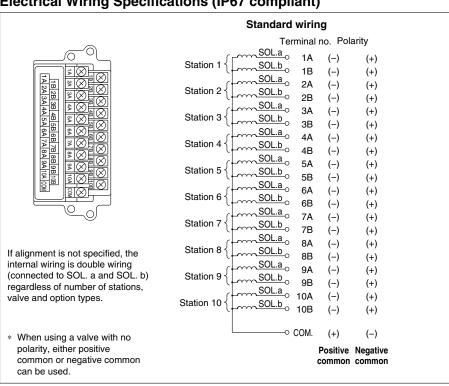
Step 3. Mount the terminal block cover.

Securely tighten the screws to the torque shown below only after confirming that the gasket is installed correctly.

> Proper tightening torque [N·m] 0.7 to 1.2

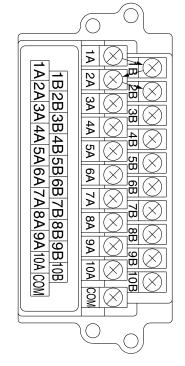
- Applicable crimped terminal: 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5
- Name plate: VVQ5000-N-T
- Drip proof plug assembly (for G3/4): AXT100-B06A

Electrical Wiring Specifications (IP67 compliant)



Specified Layout

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



Chart

Valve

Flat Ribbon

EX600 Lead Wire

EX250 EX260

EX120

Common Dimensions

Exploded View



Plug-in Connector Connecting Base

Lead Wire

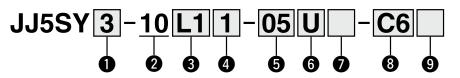
Type 10 Side Ported

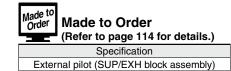
JSY1000/3000/5000 Series

(E RoHS

Internal Pilot

How to Order Manifolds





1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2	Туре
_	_

l	10	Side ported

Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

4 Lead wire length

1 0.6 m	
2 1.5 m	
3 3 m	

6 P, E port entry

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

SUP/EXH block assembly

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
C4		ø4	•	_	_	
C6	raight	ø6	•	•	_	
C8		ø8	_	•	_	
C10	쟔	ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	O Trans
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

5 Valve stations

_					
L1 □: 34 cores					
	Symbol	Stations	Note		
	02	2 stations			ſ
	:	÷	Double wiring*1		
	16	16 stations			ſ
	02	2 stations	Specified layout*2		ſ
	:	÷	(Up to 32		
	24	24 stations	solenoids available)		ſ

L2 □: 17 cores			
Symbol	Stations	Note	
02	2 stations		
1		Double wiring*1	
08	8 stations		
02	2 stations	Specified layout*2	
- I	:	(Up to 16	
16	16 stations	solenoids available)	

L3□: 9 cores

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring*1	
4	4 stations	-	
02	2 stations	Specified layout*2	
1	:	(Up to 8	
08	8 stations	solenoids available)	

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

9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

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

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)		
0	DIN rail mounting (Without DIN rail)		
3	For 3 stations	Consider a language wail them	
- :	÷	Specify a longer rail that the standard length.	
24	For 24 stations	the standard length.	



How to Order Manifold Assembly

Example (JJ5SY3-10L11-□) 2-position double (24 VDC) JSY3200-5U (3 sets) 2-position single (24 VDC) JSY3100-5U (2 sets)

- JJ5SY3-10L11-05D-C8·· 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U-----2 sets (2-position single part no.)
- * JSY3200-5U ----- 3 sets (2-position double part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- \cdot The valve arrangement is numbered as the 1st station from the D side.
- Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

Chart

Valve

D-sub Flat Ribbon

EX600

EX250

EX260

EX120

Common Dimensions

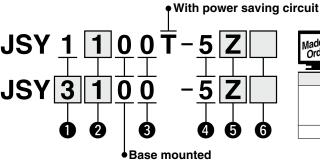
Exploded View

Fittings, Replacement Parts, Tools

JSY1000 Series

/Manifold base (5 stations) JJ5SY3-10L11-05D-C8

JSY3000/5000 Series





With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method

Pilot valve individual exhaust

4 Rated voltage

5	24 VDC

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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

2 Type of actuation

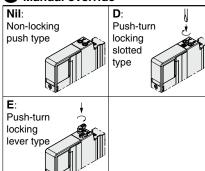
1	2 position	Single	
2	2-position	Double	
3		Closed center	
4	3-position	Exhaust center	
5		Pressure center	
Α	4	N.C./N.C.	
В	4-position dual 3-port	N.O./N.O.	
С	duai 5-port	N.C./N.O.	

5 Light/surge voltage suppressor and common specification

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

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

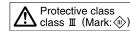
6 Manual override



- Push-turn locking lever type "E" is not available for the JSY1000.
- * When ordering a valve individually, the base gasket is not included.

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

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





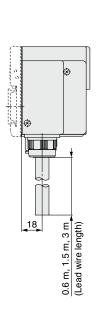
54

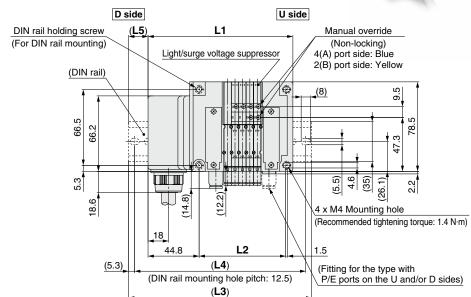
Type 10/Side Ported (Applicable to o2 and o4 fittings)
Lead Wire

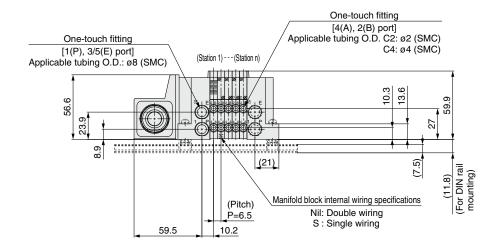
Dimensions: JSY1000 Series

JJ5SY1-10L $\frac{1}{3}$ \square - Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C2}}{\text{C2}}$ (D)









- * 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.

I · Dimensions	n: Stations
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

_ n	17	18	19	20	21	22	23	24
L1	205	211.5	218	224.5	231	237.5	244	250.5
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	235.5	235.5	248	248	260.5	273	273	285.5
L4	225	225	237.5	237.5	250	262.5	262.5	275
L5	15.5	12	15	12	15	18	14.5	17.5

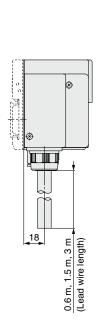


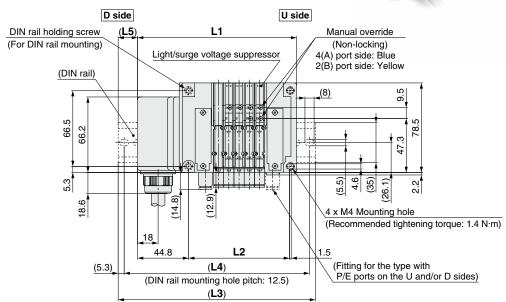
Type 10/Side Ported (Applicable to Ø6 fittings) Lead Wire

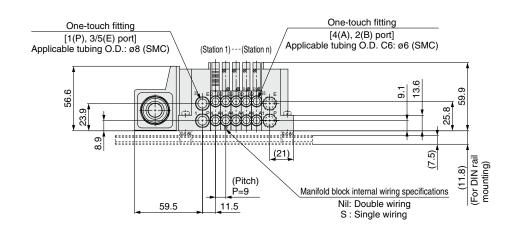
Dimensions: JSY1000 Series

JJ5SY1-10L $_{3}^{1}$ - Stations $_{D}^{U}$ -C6(D)









- * 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: Dimensions

r	: Stations	
15	16	

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	112.5	121.5	130.5	139.5	148.5	157.5	166.5	175.5	184.5	193.5	202.5	211.5	220.5	229.5	238.5
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273
L4	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250	262.5
L5	18	13.5	15	17	12.5	14	16	17.5	13	15	16.5	12	14	15.5	17.5

L n	17	18	19	20	21	22	23	24
L1	247.5	256.5	265.5	274.5	283.5	292.5	301.5	310.5
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	273	285.5	298	298	310.5	323	335.5	335.5
L4	262.5	275	287.5	287.5	300	312.5	325	325
L5	13	14.5	16.5	12	13.5	15.5	17	12.5

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

Plug-in

D-sub Flat Ribbon

EX260 EX250 EX600

EX120

Common Dimensions

Manifold Exploded View

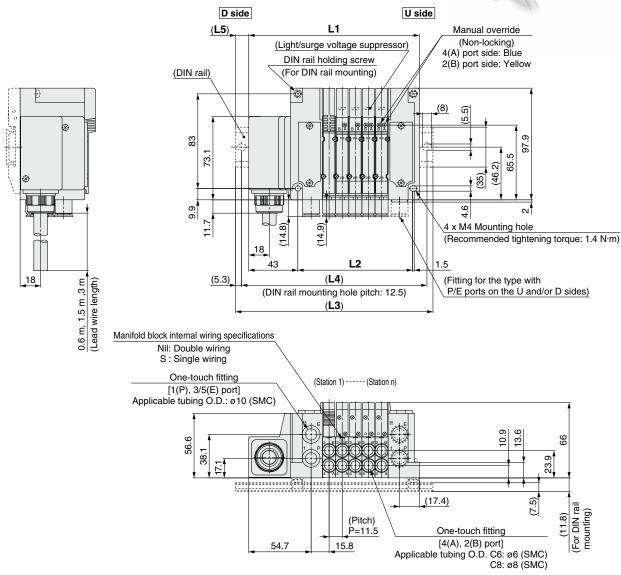
Type 10/Side Ported

Dimensions: JSY3000 Series

JJ5SY3-10L $_{3}^{1}$ - Stations $_{B}^{U}$ - $_{C8}^{C6}$ (D)

Lead Wire





- * These figures show the "JJ5SY3-10L1 \square -05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

	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

	17	18	19	20	21	22	23	24
L1	287.6	299.1	310.6	322.1	333.6	345.1	356.6	368.1
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	323	323	335.5	348	360.5	373	385.5	398
L4	312.5	312.5	325	337.5	350	362.5	375	387.5
L5	17.5	12	12.5	13	13.5	14	14.5	15

Dimensions: JSY5000 Series

Type 10/Side Ported

Lead Wire

JJ5SY5-10L $_{3}^{1}$ - Stations $_{p}^{U}$ - $_{c12}^{10}$ (D)

_



Chart

Valve

Plug-in Connector Connecting Base

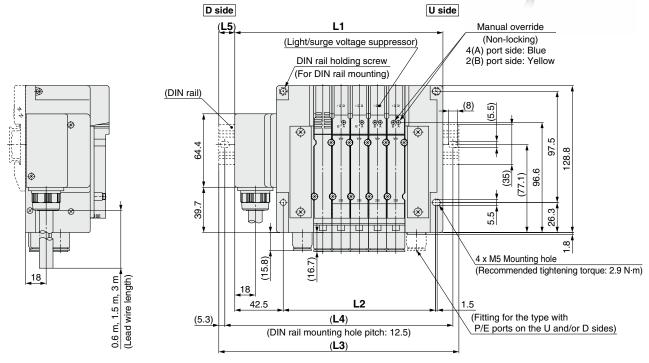
D-sub Flat Ribbon

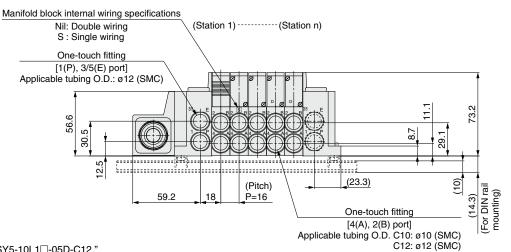
EX260 EX250 EX600

EX120

Common Dimensions

Manifold Exploded View





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

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

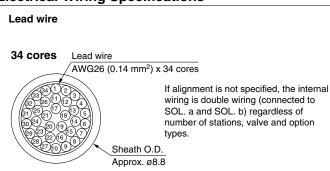
L: Dimensions n: Stations

		. •													
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	134.5	150.5	166.5	182.5	198.5	214.5	230.5	246.5	262.5	278.5	294.5	310.5	326.5	342.5	358.5
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	173	185.5	198	210.5	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398
L4	162.5	175	187.5	200	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5
L5	19.5	17.5	16	14	18.5	17	15	19.5	18	16	14.5	19	17	15.5	20

L n	17	18	19	20	21	22	23	24
L1	374.5	390.5	406.5	422.5	438.5	454.5	470.5	486.5
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	410.5	423	435.5	460.5	473	485.5	510.5	523
L4	400	412.5	425	450	462.5	475	500	512.5
L5	18	16.5	14.5	19	17.5	15.5	20	18.5



Electrical Wiring Specifications



Printed mark

Lead

			_		wire	(Both sid	des)
	Lead	wire	no. P	olarity	color	Type	Color
رحر	SOL.a	1	(-)	(+)			Red
Station 1 {	SOL.b	2	(-)	(+)	Orange	_	Black
	SOL.a	3	(-)	(+)	Limbs		Red
Station 2	SOL.b	4	(–) (–)	(+) (+)	Light gray	_	Black
	SOL.a	•	. ,	. ,	9.4,		
Station 3	SOL.b	5	(-)	(+)	White	_	Red
()	SOL.a	6	(-)	(+)			Black
Station 4	SOL.b	7	(–)	(+)	Yellow	_	Red
	SOL.a	8	(–)	(+)			Black
Station 5	COL b	9	(-)	(+)	Pink		Red
Station 5	SOL.b	10	(-)	(+)	I IIIK		Black
Station 6	SOL.a	11	(-)	(+)	Orongo		Red
Station 6	SOL.b	12	(-)	(+)	Orange		Black
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SOL.a	13	(-)	(+)	Light		Red
Station 7	SOL.b	14	(-)	(+)	gray		Black
	SOL.a	15	(-)	(+)			Red
Station 8 {	SOL.b	16	(-)	(+)	White		Black
	SOL.a	17	(-)	(+)			Red
Station 9	SOL.b	18	(-)	(+)	Yellow		Black
	SOL.a	19	(-)	(+)			Red
Station 10 {	SOL.b	20	(-)	(+)	Pink		Black
(-	SOL.a	21	(-)	(+)			Red
Station 11 {	SOL.b	22	(-)	(+)	Orange		Black
(-	SOL.a	23	(-)	(+)	Light		Red
Station 12	eoi k	24	(-)	(+)	gray		Black
		25	(-)	(+)	, , , , , , , , , , , , , , , , , , ,		Red
Station 13	eoi k	26	(-)	(+)	White		Black
	001 -	27	(-)	(+)			Red
Station 14	001 6	28	(-)	(+)	Yellow		
	001 -						Black
Station 15	COLL	29	(-)	(+)	Pink		Red
	COL 0	30	(-)	(+)			Black
Station 16	COLL	31	(-)	(+)	Orange		Red
	COM	32	(-)	(+)			Black
	COM	33	(+)	(–)	Light		Red
	COIVI.	34	(+)	(–)	gray		Black
		P	ositiv	e Negative			

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.

Specified Layout

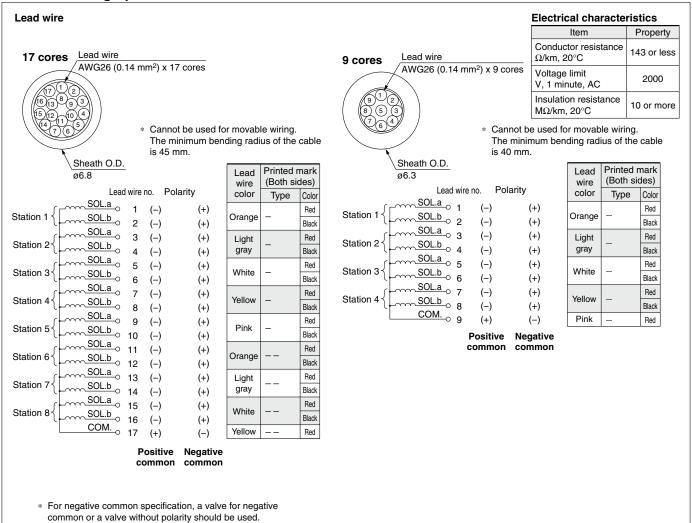
 For negative common specification, a valve for negative common or a valve without polarity should be used.

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.

common common



Electrical Wiring Specifications



Common Dimensions

Chart

Valve

Plug-in

Flat Ribbon

EX600

EX250

EX260

EX120

Exploded View



Plug-in Connector Connecting Base

EX600

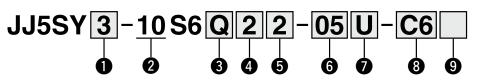
Type 10 Side Ported

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds



1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type

10 Side ported

3 SI unit

0	Without SI unit	
Q	DeviceNet™ (Version A)	
N	PROFIBUS DP (Version A)	
V	CC-Link	
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.

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

SI unit output	M12 power supply	7/8 inch power supply connector (EX600-ED3)	M12 power supply connector IN/OUT, A-coded	
polarity	connector B-coded (EX600-ED2)		Pin arrangement 1 (EX600-ED4)	Pin arrangement 2 (EX600-ED5)
Without SI unit	Nil			
SI unit positive common	2	3	6	8
SI unit negative common	4	5	7	9

- * Ensure a match with the common specification of the valve to be used.
- * Without SI unit, the symbol is nil.

5 I/O unit stations

Nil	None
1	1 station
i	:
9	9 stations

- * Without SI unit, the symbol is nil.
- * SI unit is not included in I/O unit stations.
- * When I/O unit is selected, it is shipped separately, and assembled by users. Refer to the attached operation manual for mounting.

Made to Order

Made to 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	Specified layout*2 (Up to 32 solenoids available)
1	:	
24	24 stations	(Op to 32 solerloids 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.

7 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.

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

O 7.9	• 71, 2 port diag (mound, one todon mang)					
Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	~ (2)
C4		ø4	•	_	_	
C6	둧	ø6	•	•	_	
C8	raight	ø8	_	•	_	
C10	ळ	ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	O Ties
P, E port size (One-touch fittings)			ø8	ø10	ø12	

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

Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

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

DIN Rail Option

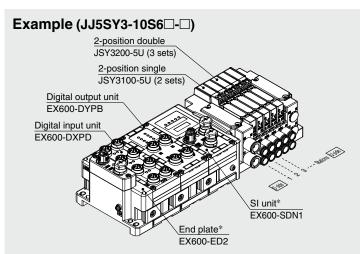
Nil	DIN rail mounting (With DIN rail) DIN rail mounting (Without DIN rail)		
0			
3	For 3 stations	Consider a lamana unil them	
i	÷	Specify a longer rail than the standard length.	
24	For 24 stations	tile statidatu letigiti.	

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

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



How to Order Manifold Assembly



- JJ5SY3-10S6Q42-05B-C8 ·· 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U-----2 sets (2-position single part no.)
- * JSY3200-5U3 sets (2-position double part no.)
- * EX600-DXPD1 set I/O unit part number (Station 1) EX600-DYPB1 set I/O unit part number (Station 2)
- The asterisk denotes the symbol for the assembly.
 - Prefix it to the part numbers of the valve, etc.
- The valve arrangement is numbered as the 1st station from the D side. · Under the manifold part number, state the valves to be mounted, then the I/O units in order from the 1st station as shown in the figure.
- If the arrangement becomes complicated, specify on a manifold specification
- *1 Do not enter the SI unit part number and the end plate part number together.

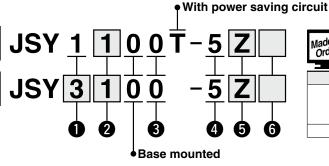
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

JSY1000 Series

JSY3000/5000 Series



Made to Order (Refer to page 114 for details.)

Specification

With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

D:

Push-turn

locking slotted tvpe

Series

1	JSY1000
3	JSY3000
5	JSY5000

Type of actuation

1	2-position	Single		
2		Double		
3		Closed center		
4	3-position	Exhaust center		
5		Pressure center		
Α	4-position dual 3-port	N.C./N.C.		
В		N.O./N.O.		
С	duai 5-port	N.C./N.O		

3 Pilot valve exhaust method

0	Pilot valve individual exhaust

5 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U		•	Non-polar
Z	•		Positive common
N7			Negative common

4 Rated voltage

5	24 VDC

- Select a valve from U or Z when the SI unit polarity is positive common. Select a valve from U or NZ when the SI unit output polarity is negative common.
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

Push-turn locking lever type "E" is not available for the JSY1000

6 Manual override

Nil:

Non-locking

push type

Push-turn locking lever type

When ordering a valve individually, the base gasket is not included.

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

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

∕ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

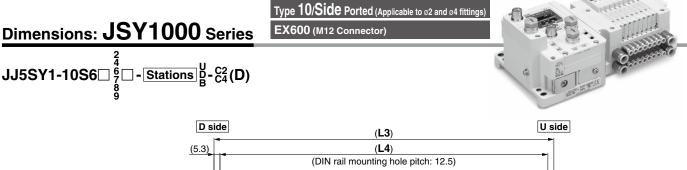
For the JSY1000 series only the power saving circuit is available.

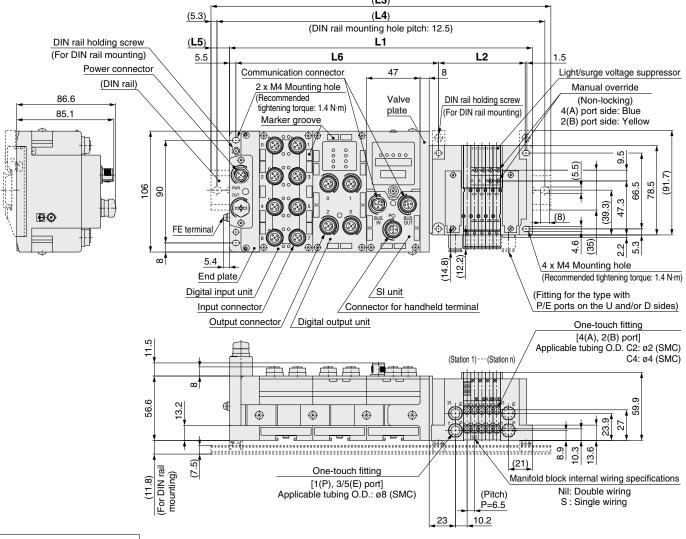
Protective class class II (Mark: ♠)



SMC

JJ5SY1-10S6 $\square_7^6\square$ -Stations $P_{C_4}^{C_2}(D)$





 $L1 = 6.5 \times n1 + 139 + 47 \times n2$ $L2 = 6.5 \times n1 + 43.4$ L4 = L3 - 10.5L5 = (L3 - L1) / 2

 $L6 = 47 \times n2 + 83.8$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY1-10S6Q22-05D-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.

_0			~·· — ·	9	•																		
Valve stations (n1) I/O unit stations (n2)	l	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

Type 10/Side Ported (Applicable to 06 fittings)

Dimensions: JSY1000 Series

EX600 (M12 Connector)



Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

Lead Wire

EX600

EX250

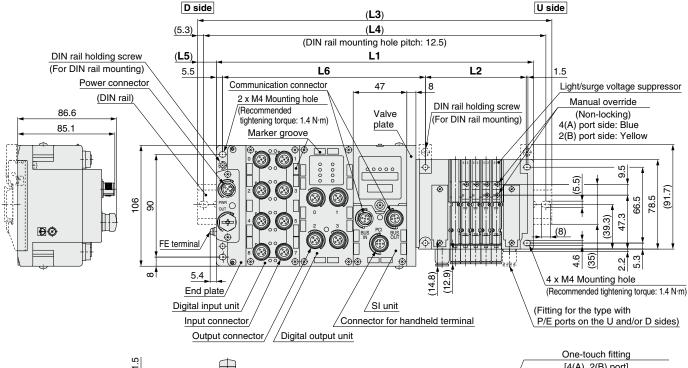
EX260

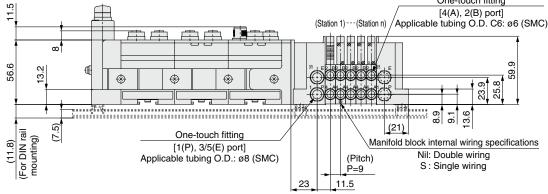
EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools





 $L1 = 9 \times n1 + 139 + 47 \times n2$ $L2 = 9 \times n1 + 43.4$ L4 = L3 - 10.5L5 = (L3 - L1) / 2

L5 = (L3 - L1)/2 $L6 = 47 \times n2 + 83.8$ n1: Valve stations

n2: I/O unit stations

* These figures show the "JJ5SY1-10S6Q22-05D-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.

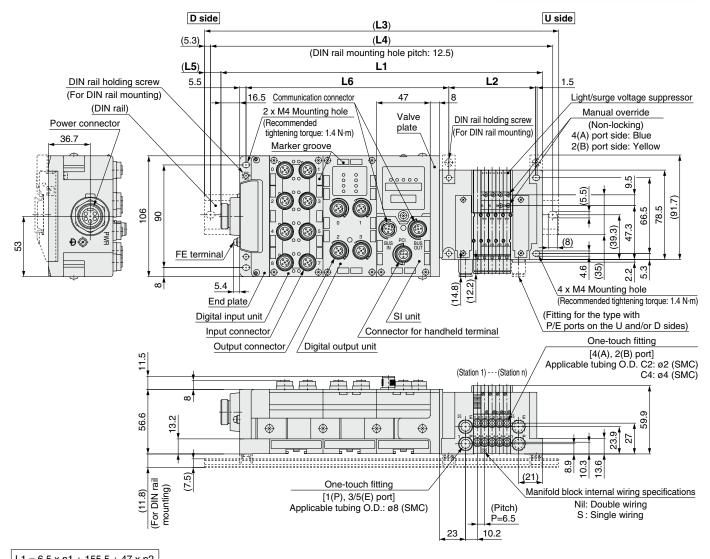
Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	360.5	373	385.5
1	235.5	248	248	260.5	273	273	285.5	298	310.5	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5
2	285.5	285.5	298	310.5	310.5	323	335.5	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	448	448	460.5	473	473
3	323	335.5	348	360.5	360.5	373	385.5	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	510.5	523
4	373	385.5	398	398	410.5	423	423	435.5	448	460.5	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	560.5	560.5	573
5	423	435.5	435.5	448	460.5	460.5	473	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	598	598	610.5	623
6	473	473	485.5	498	510.5	510.5	523	535.5	535.5	548	560.5	573	573	585.5	598	598	610.5	623	635.5	635.5	648	660.5	660.5
7	510.5	523	535.5	548	548	560.5	573	573	585.5	598	610.5	610.5	623	635.5	635.5	648	660.5	673	673	685.5	698	710.5	710.5
8	560.5	573	585.5	585.5	598	610.5	610.5	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	748	748	760.5
9	610.5	623	623	635.5	648	660.5	660.5	673	685.5	685.5	698	710.5	723	723	735.5	748	748	760.5	773	785.5	785.5	798	810.5

Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to 02 and 04 fittings)
EX600 (7/8 Inch Connector)

JJ5SY1-10S6 $\square \stackrel{3}{5}\square$ -Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C2}}{\text{C4}}$ (D)





L1 = 6.5 x n1 + 155.5 + 47 x n2 L2 = 6.5 x n1 + 43.4 L4 = L3 - 10.5

L5 = (L3 - L1) / 2

L6 = 47 x n2 + 83.8 n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY1-10S6Q32-05D-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.

Valve stations (n1) 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	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

Dimensions: **JSY1000** Series

JJ5SY1-10S6 - Stations D-C6(D)

Type 10/Side Ported (Applicable to Ø6 fittings) EX600 (7/8 Inch Connector)



Chart

Valve

Plug-in

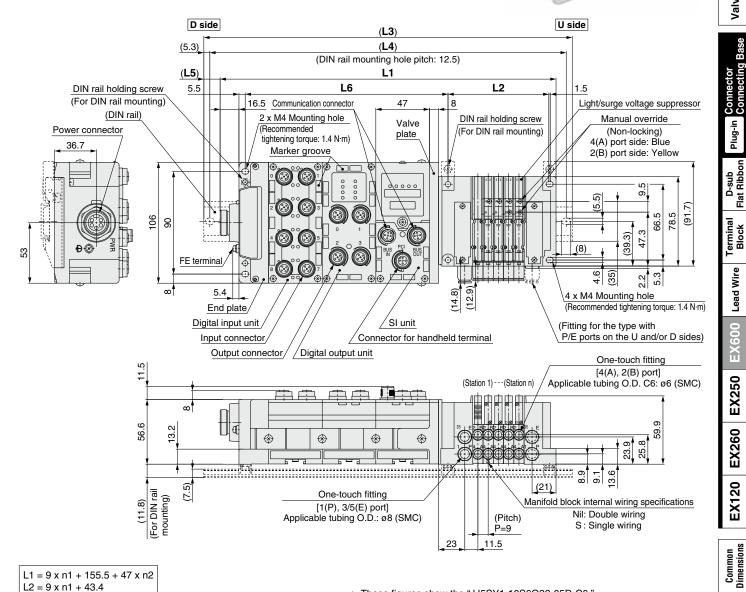
EX600 Lead Wire

EX250

EX260

Exploded View

Fittings, Replacement Parts, Tools



 $L1 = 9 \times n1 + 155.5 + 47 \times n2$ $L2 = 9 \times n1 + 43.4$ L4 = L3 - 10.5L5 = (L3 - L1) / 2

 $L6 = 47 \times n2 + 83.8$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY1-10S6Q32-05D-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.

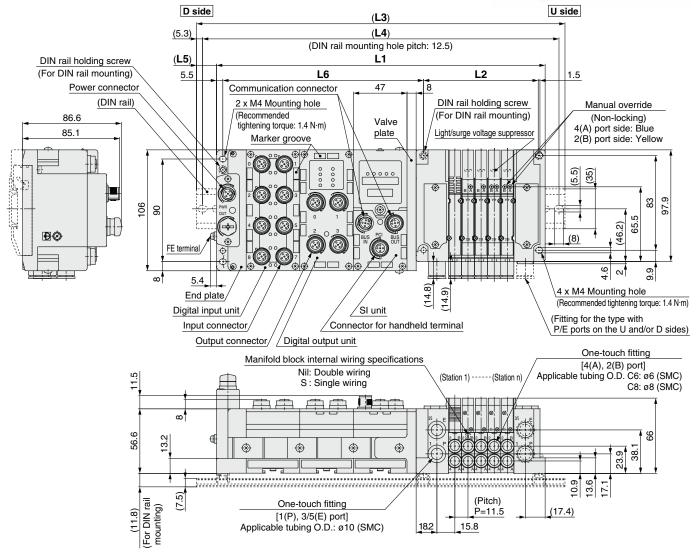
Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	198	210.5	223	235.5	235.5	248	260.5	260.5	273	285.5	298	298	310.5	323	323	335.5	348	360.5	360.5	373	385.5	398	398
1	248	260.5	273	273	285.5	298	298	310.5	323	335.5	335.5	348	360.5	373	373	385.5	398	398	410.5	423	435.5	435.5	448
2	298	310.5	310.5	323	335.5	348	348	360.5	373	373	385.5	398	410.5	410.5	423	435.5	435.5	448	460.5	473	473	485.5	498
3	348	348	360.5	373	385.5	385.5	398	410.5	410.5	423	435.5	448	448	460.5	473	473	485.5	498	510.5	510.5	523	535.5	548
4	385.5	398	410.5	423	423	435.5	448	448	460.5	473	485.5	485.5	498	510.5	523	523	535.5	548	548	560.5	573	585.5	585.5
5	435.5	448	460.5	460.5	473	485.5	498	498	510.5	523	523	535.5	548	560.5	560.5	573	585.5	585.5	598	610.5	623	623	635.5
6	485.5	498	498	510.5	523	535.5	535.5	548	560.5	560.5	573	585.5	598	598	610.5	623	623	635.5	648	660.5	660.5	673	685.5
7	535.5	535.5	548	560.5	573	573	585.5	598	598	610.5	623	635.5	635.5	648	660.5	673	673	685.5	698	698	710.5	723	735.5
8	573	585.5	598	610.5	610.5	623	635.5	648	648	660.5	673	673	685.5	698	710.5	710.5	723	735.5	735.5	748	760.5	773	773
9	623	635.5	648	648	660.5	673	685.5	685.5	698	710.5	710.5	723	735.5	748	748	760.5	773	773	785.5	798	810.5	810.5	823

Type 10/Side Ported EX600 (M12 Connector)

Dimensions: JSY3000 Series

JJ5SY3-10S6 - Stations B-C8(D)





L1 = 11.5 x n1 + 136.6 + 47 x n2 L2 = 11.5 x n1 + 43.1 L4 = L3 - 10.5

L5 = (L3 - L1) / 2

L6 = (L3 - L1)/2 $L6 = 47 \times n2 + 82$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY3-10S6Q22-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	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

Dimensions: **JSY3000** Series

Type 10/Side Ported EX600 (7/8 Inch Connector)

JJ5SY3-10S6 3 - Stations 2 - C6 (D)



Chart

Valve

Plug-in

D-sub Flat Ribbon

EX600 Lead Wire

EX250

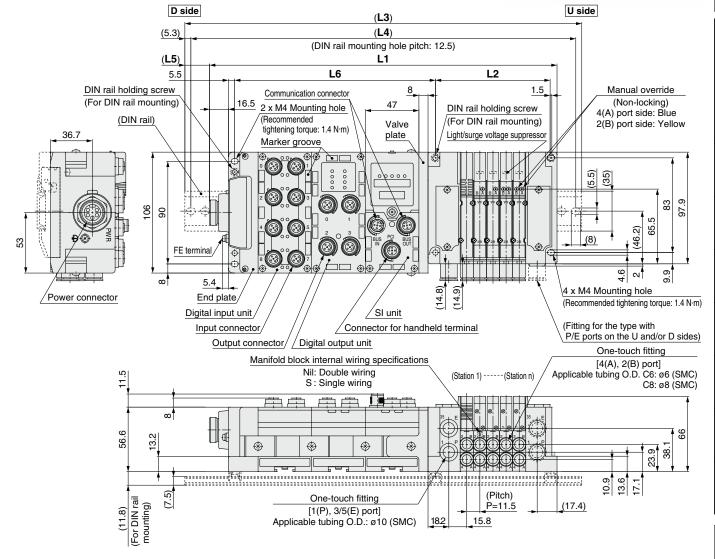
EX260

EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools



 $L1 = 11.5 \times n1 + 153.1 + 47 \times n2$ L2 = 11.5 x n1 + 43.1

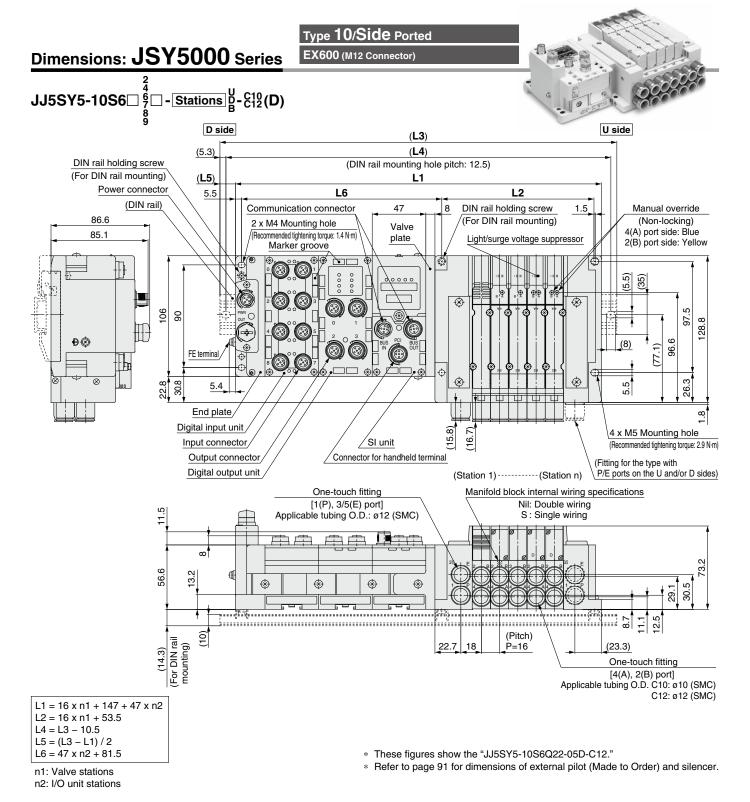
L4 = L3 - 10.5L5 = (L3 - L1) / 2

 $L6 = 47 \times n2 + 82$

n1: Valve stations n2: I/O unit stations * These figures show the "JJ5SY3-10S6Q32-05D-C8."

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

LJ. DIN I	ian C	74010	411 EC	<u>, 11911</u>	<u> </u>																		
Valve stations (n1) I/O unit stations (n2)	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	423	435.5	448	460.5	473
1	273	285.5	298	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	435.5	448	460.5	473	485.5	498	510.5	523
2	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573
3	360.5	373	385.5	398	410.5	423	435.5	448	460.5	460.5	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	610.5
4	410.5	423	435.5	448	460.5	473	473	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	623	635.5	648	660.5
5	460.5	473	485.5	485.5	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	635.5	648	660.5	673	685.5	698	710.5
6	498	510.5	523	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5
7	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	798
8	598	610.5	623	635.5	648	660.5	673	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	810.5	823	835.5	848
9	648	660.5	673	685.5	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798	810.5	823	823	835.5	848	860.5	873	885.5	898



Valve stations (n1) I/O unit stations (n2)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	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

Dimensions: **JSY5000** Series

Type 10/Side Ported EX600 (7/8 Inch Connector)

JJ5SY5-10S6 $\square \stackrel{3}{5}\square$ - Stations $\stackrel{U}{p}$ - $\stackrel{C10}{c12}$ (D)



Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

Lead Wire

EX600

EX250

EX260

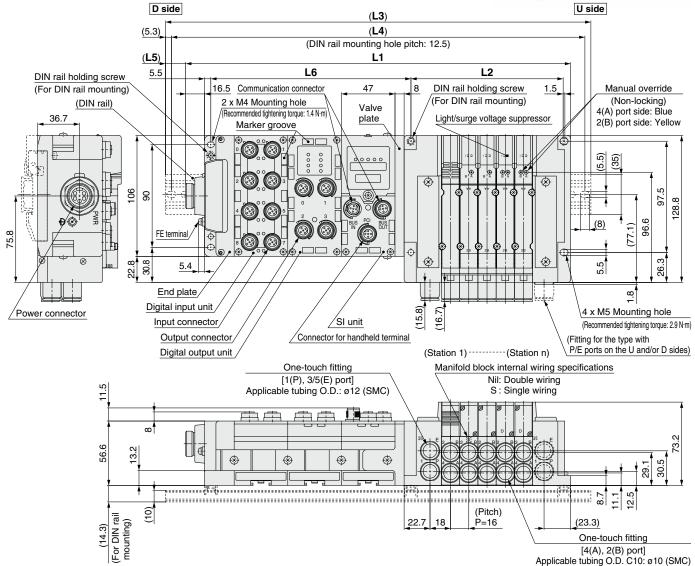
EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools

C12: ø12 (SMC)



L1 = 16 x n1 + 163.5 + 47 x n2

 $L2 = 16 \times n1 + 53.5$

L4 = L3 - 10.5

L5 = (L3 - L1) / 2 $L6 = 47 \times n2 + 81.5$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY5-10S6Q32-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

LO. DIIT	iuii C	, , ,	411 L \	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>																			
Valve stations (n1) I/O unit stations (n2)	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573
1	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5	573	598	610.5	623
2	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	660.5	673
3	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	723
4	410.5	423	448	460.5	473	498	510.5	523	535.5	560.5	573	585.5	610.5	623	635.5	648	673	685.5	698	723	735.5	748	760.5
5	460.5	473	498	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	785.5	798	810.5
6	510.5	523	535.5	560.5	573	585.5	598	623	635.5	648	673	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848	860.5
7	548	573	585.5	598	623	635.5	648	660.5	685.5	698	710.5	735.5	748	760.5	773	798	810.5	823	848	860.5	873	885.5	910.5
8	598	623	635.5	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	910.5	923	935.5	948
9	648	660.5	685.5	698	710.5	723	748	760.5	773	798	810.5	823	835.5	860.5	873	885.5	898	923	935.5	948	973	985.5	_

Plug-in Connector Connecting Base

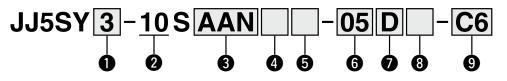
EX245

Type 10/ Side Ported

JSY3000/5000 Series



How to Order Manifold



Only direct mounting is selectable for the manifold.



Made to Order (Refer to page 114 for details.)

Specification

External pilot
(SUP/EXH block assembly)

1 Series

<u> </u>	100
3	JSY3000
5	JSY5000

2 Туре

<u> </u>	* *
10	Side ported

3 SI Unit specifications

Symbol (output polarity)	Protocol	Communication	Communication
Negative common (PNP)		connector	connector specifications
0		Without SI unit	
AAN		Push/Pull (SCRJ): 2 pcs.	Push/Pull (24 V): 2 pcs.
ABN	PROFINET	Push/Pull (RJ45): 2 pcs.	Push/Pull (24 V): 2 pcs.
ACN		M12: 2 pcs.	7/8 inch: 2 pcs.

^{*} The valve output polarity for the SI unit is negative common (PNP).

4 With or without I/O modules

Nil	Without I/O module
Υ	With I/O module

5 Number of I/O modules

Nil	Without I/O module (Without SI Unit)
1	1 station
:	:
8	8 stations

6 Valve stations

Symbol	Stations	Note						
02	2 stations							
:	÷	Double wiring*1						
16	16 stations							
02	2 stations	Specified layout*2						
:	::	(Available up to 32						
24	24 stations	solenoids)						

*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

P, E port entry

_	<u> </u>	1 7
U D		U side (2 to 10 stations)
		D side (2 to 10 stations)
Γ	В	Both sides (2 to 24 stations)

8 SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

- For built-in silencer type, P and E ports are available on U and D sides. 3/5(E) port is plugged.
- When the built-in silencer type is used, keep the exhaust port from coming in direct contact with water or other liquids.
- unused control signal. If this is not desired, order with a specified layout

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

(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 plate assembly.

A. B port size (Metric)

Symbol		A, B port	JSY3000	JSY5000	
C6		ø6 One-touch fitting	•	_	
C8	Ħ	ø8 One-touch fitting	•	_	
C10	raig	ø10 One-touch fitting	_	•	
C12	Š	ø12 One-touch fitting	_	•	
CM*1		Straight port, mixed sizes	•	•	
P	Ε.	port size (One-touch fittings)	ø10	ø12	

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

For details about the EX245 Integrated-type (For Input/Output) Serial Transmission System, refer to pages 133-1 to 133-15 and the Operation Manual. For details about part numbers of SI Units to be mounted, refer to pages 361-1 and 361-2. Please download the Operation Manual via SMC website, https://www.smcworld.com



- JJ5SY3-10SAANY2-05D-C6 ··· 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U-----3 sets (2-position single part no.)
- * JSY3200-5U2 sets (2-position double part no.)
- * EX245-DX11 set I/O module part number * EX245-DY11 set I/O module part number
- The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · The valve arrangement is numbered as the 1st station from the D side.
- The I/O module station arrangement is numbered starting from the SI unit side.
- Under the manifold part number, state the valves to be mounted, then the I/O module in order from the 1st station as shown in the figure.
- If the arrangement becomes complicated, specify on a manifold specification

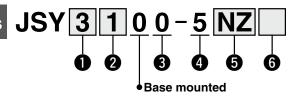
*1 Do not enter the SI unit part number and the end plate part number together.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

JSY3000/5000 Series





With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

Series

3	JSY3000
5	JSY5000

Pilot valve individual exhaust

24 VDC

3 Pilot valve exhaust method

Type of actuation

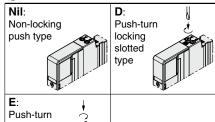
1	O manitian	Single							
2	2-position	Double							
3		Closed center							
4	3-position	Exhaust center							
5		Pressure center							
Α	4 manitina	N.C./N.C.							
В	4-position dual 3-port	N.O./N.O.							
С	duai 5-port	N.C./N.O.							

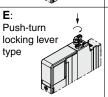
5 Light/surge voltage suppressor and common specification

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

When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

6 Manual override





* When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service

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

4 Rated voltage

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

Protective class class II (Mark:⟨ii⟩)

70-2®

Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

EX600 Lead Wire

EX250

EX260

EX120

JSY3000/5000 Series

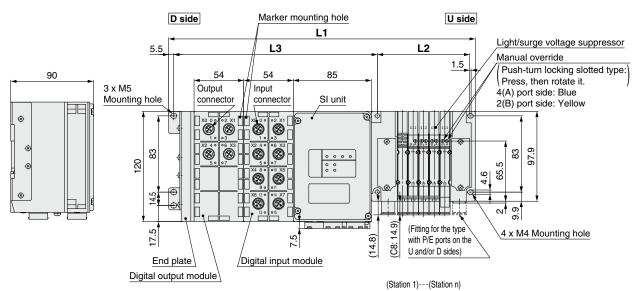
Type 10/Side Ported

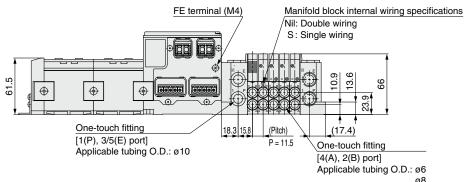
Dimensions: JSY3000 Series

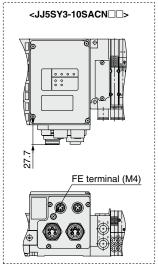
EX245

JJ5SY3-10SA - Stations P-C8









L1 = 11.5n1 + 168.2 L2 = 11.5n1 + 43.1 L3 = 54n2 + 113.6

- * These figures show the "JJ5SY3-10SAANY2-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

* The L1 dimension is the dimension without an I/O module. Add 54 mm to this dimension for each I/O module.

Dimensions * n2 is the number of I/O module stations.

The following of the module obtained																							
Valve stations n1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	191.2	202.7	214.2	225.7	237.2	248.7	260.2	271.7	283.2	294.7	306.2	317.7	329.2	340.7	352.2	363.7	375.2	386.7	398.2	409.7	421.2	432.7	444.2
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1

Connector Connecting Base JSY3000/5000 Series

Dimensions: **JSY5000** Series

Digital output module

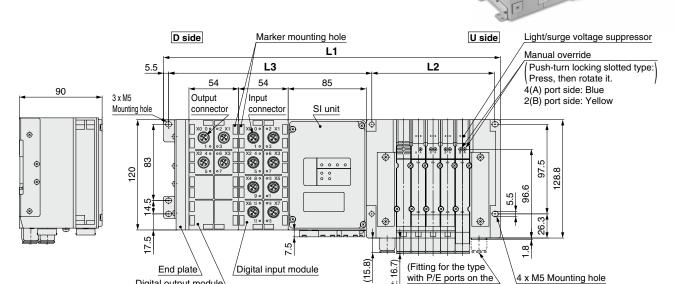
JJ5SY5-10SA - Stations P - C10

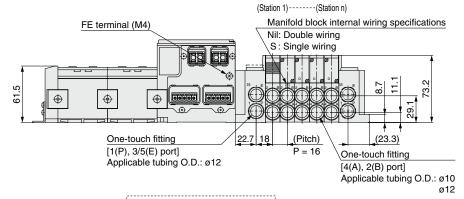
Type 10/Side Ported EX245

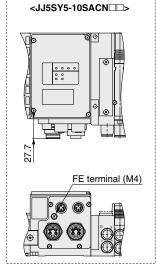
with P/E ports on the

U and/or D sides)

4 x M5 Mounting hole







L1 = 16n1 + 178.6L2 = 16n1 + 53.5L3 = 54n2 + 113.1

- These figures show the "JJ5SY5-10SAANY2-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

* The L1 dimension is the dimension without an I/O module. Add 54 mm to this dimension for each I/O module.

Dimensions * n2 is the number of I/O module stations.

Valve stations n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	210.6	226.6	242.6	258.6	274.6	290.6	306.6	322.6	338.6	354.6	370.6	386.6	402.6	418.6	434.6	450.6	466.6	482.6	498.6	514.6	530.6	546.6	562.6
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

70-4 ^A

Chart

Valve

Plug-in Connector Connecting Base

D-sub Flat Ribbon

EX600 Lead Wire

EX250

EX260 EX120

Common Dimensions

Manifold Exploded View

Plug-in Connector Connecting Base

EX250

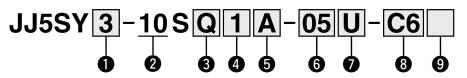
Type 10 Side Ported

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds



1 Series

1	JSY1000
3	JSY3000
5	JSY5000

SI unit

0	Without SI unit						
Q	Device	DeviceNet™ (Negative common)					
N	PROFIB	PROFIBUS DP (Negative common)					
TA	AS-Interface	2 isolated	8 in/8 out, 31 slave modes				
TB		common type	4 in/4 out, 31 slave modes				
TC	(Negative common)	1 common	8 in/8 out, 31 slave modes				
TD	Common	type	4 in/4 out, 31 slave modes				
Υ	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

<u> </u>	
10	Side ported

4 Input block stations

Nil	None					
1	1 station					
i	:					
8	8 stations					

 Without SI unit, the symbol is nil.
 The maximum number of stations is limited for the AS-Interface applicable SI unit.

6 Input block type

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

* Without SI unit, the symbol is nil.

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.

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

A, B port size (wether one-toden inting)								
Symbol		A, B port	JSY1000	JSY3000	JSY5000			
C2		ø2	•	_	_	(Z)		
C4		ø4	•	_	_			
C6	턽	ø6	•	•	_			
C8	raight	ø8	_	•	_			
C10	ਲੋਂ	ø10	_	_	•			
C12		ø12	_	_	•	00		
CM*1		Straight port, mixed sizes	•	•	•	O Trans		
P, E port size (One-touch fittings)			ø8	ø10	ø12			

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

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

Made to Order Made to Order (Refer to page 114 for details.)

		Sp	ecific	ation		
Exter	rnal p	ilot (SI	JP/E	XH blo	ck assem	ıbly)

6 Valve stations

Symbol	Stations	Note
02	2 stations	
1	÷	Double wiring*1
16	16 stations	_
02	2 stations	0
:	:	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.) 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.
 - \cdot 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 and option							
Symbol	Mounting						
Nil	Direct mounting						
D□	DIN rail mounting						

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

DIN Rail Option

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



- JJ5SY3-10SQ1C-05D-C8 ··· 1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U3 sets (2-position single part no.) * JSY3200-5U2 sets (2-position double part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · The valve arrangement is numbered as the 1st station from the D side.
- · Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

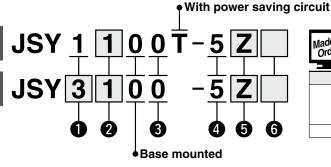
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

JSY1000 Series

JSY3000/5000 Series



Made to Order (Refer to page 114 for details.)

Specification With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method

_	5
	Pilot valve individual exhaust

Rated voltage

•	g.
5	24 VDC

Type of actuation

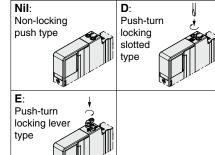
1	2-position	Single
2	2-position	Double
3		Closed center
4	3-position	Exhaust center
5		Pressure center
Α	4	N.C./N.C.
В	4-position dual 3-port	N.O./N.O.
С	duai 5-port	N.C./N.O.

5 Light/surge voltage suppressor and common specification

With light	suppressor	Common specification
		Non-polar
•	•	Positive common
		Negative common
	•	suppressor

- "U" is applicable for every SI unit. However, "Z" can be used only for CC-Link applicable unit and "NZ" is for units which are not CC-Link applicable.
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

6 Manual override



- Push-turn locking lever type "E" is not available for the JSY1000.
- When ordering a valve individually, the base gasket is not included.

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

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

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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

Protective class class II (Mark: ♠)



72

Chart Valve

D-sub Flat Ribbon

Lead Wire

EX600

EX250

EX260

EX120

Common Dimensions **Exploded View**

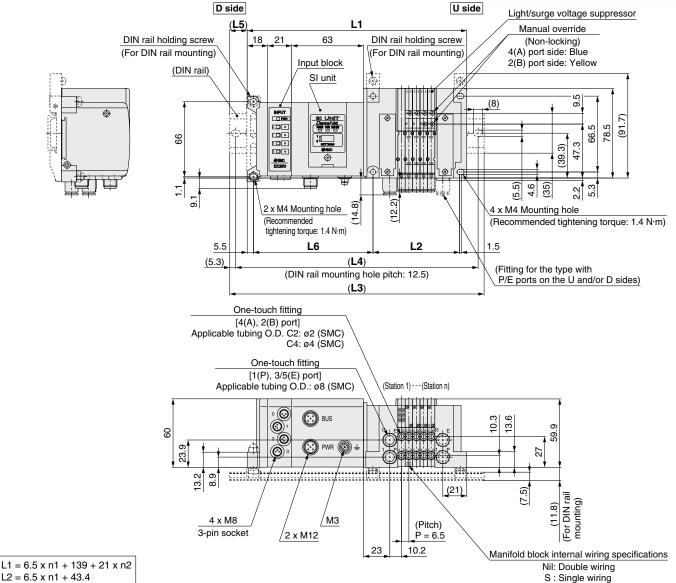
Fittings, Replacement Parts, Tools

Dimensions: **JSY1000** Series

JJ5SY1-10S \square - Stations $\stackrel{\text{U}}{\mathbb{R}}$ - $\stackrel{\text{C2}}{\mathbb{C}^2}$ (D)

Type 10/Side Ported (Applicable to Ø2 and Ø4 fittings) EX250





 $L2 = 6.5 \times n1 + 43.4$ L4 = L3 - 10.5

L5 = (L3 - L1) / 2 $L6 = 21 \times n2 + 83.8$

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

Connector Connecting Base JSY1000/3000/5000 Series

Dimensions: JSY1000 Series

JJ5SY1-10S - Stations D-C6(D)

Type 10/Side Ported (Applicable to ø6 fittings)

EX250



Chart

Valve

Plug-in

D-sub Flat Ribbon

EX600 Lead Wire

EX250

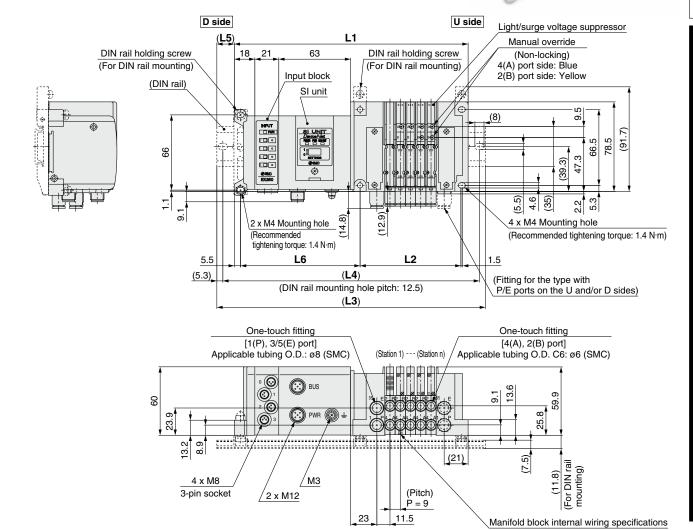
EX260

EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools



Nil: Double wiring S : Single wiring

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

n1: Number of valve stations of the JSY1000

n2: Input block stations

 $L6 = 21 \times n2 + 83.8$

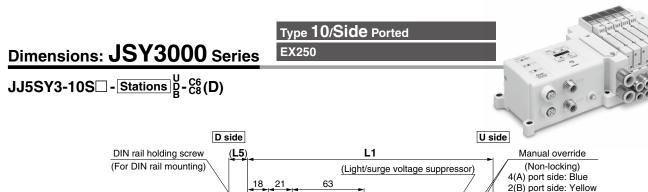
* These figures show the "JJ5SY1-10SQ1A-05D-C6."

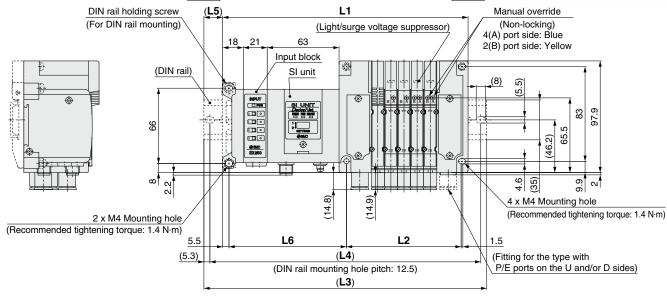
* Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.

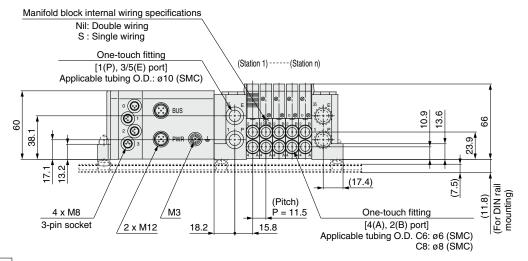
* When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

L3: DIN Rail Overall Length

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







L1 = 11.5 x n1 + 136.6 + 21 x n2 L2 = 11.5 x n1 + 43.1 L4 = L3 - 10.5 L5 = (L3 - L1) / 2

n1: Number of valve stations of the JSY3000

n2: Input block stations

 $L6 = 21 \times n2 + 82$

75

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

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

L3: DIN Rail Overall Length

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

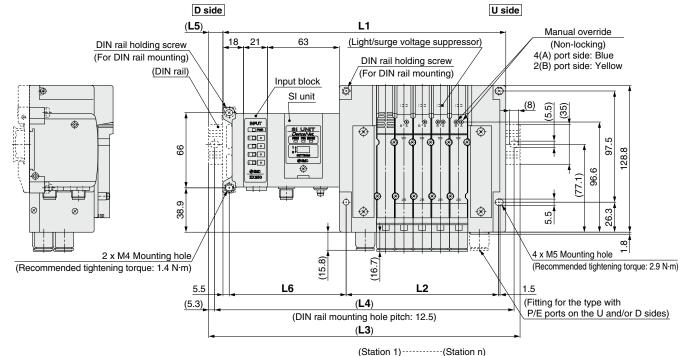
Connector Connecting Base JSY1000/3000/5000 Series

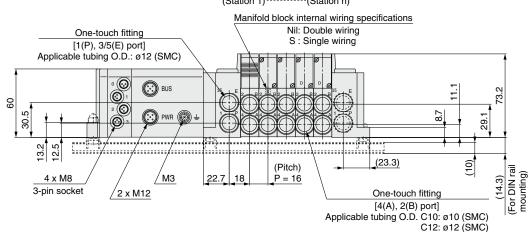
Dimensions: **JSY5000** Series

EX250

JJ5SY5-10S□ - Stations P - C12 (D)







 $L1 = 16 \times n1 + 147 + 21 \times n2$

L2 = 16 x n1 + 53.5

L4 = L3 - 10.5

L5 = (L3 - L1) / 2 $L6 = 21 \times n2 + 81.5$

n1: Number of valve stations of the JSY5000

n2: Input block stations

- * These figures show the "JJ5SY5-10SQ1A-05D-C12."
- * Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L3: DIN Rail Overall Length

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

Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

EX600 Lead Wire

EX250

EX260

EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools

Plug-in Connector Connecting Base

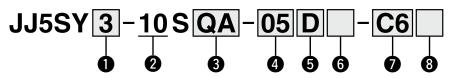
EX260

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds



Series

1	JSY1000
3	JSY3000
5	JSY5000

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

· ·	tput polarity)		Number	Communication	
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	connector	
0	*1	Without	SI unit		
QA	QAN	DeviceNet™	32	M12	
QB	QBN	Devicemet	16	IVITZ	
NA	NAN		32	M12	
NB	NBN	PROFIBUS	16	IVITZ	
NC	NCN	DP	32	*3 D-sub	
ND	NDN		16	D-80D	
VA	VAN	CC-Link	32	M12	
VB	VBN	OO-LIIK	16	IVITZ	
DA	DAN	EtherCAT	32	M12	
DB	DBN	Luieicki	16	IVITZ	
FA	FAN	PROFINET	32	M12	
FB	FBN	THOTINE	16	IVITZ	
EA	EAN	EtherNet/IP™	32	M12	
EB	EBN	Luicine//F	16	IVITZ	
—*2 GAN		Ethernet	32	M12	
*2	GBN	POWERLINK	16	IVITZ	
*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.

 *4 Only the 32 outputs type is available.

 * DIN rail cannot be mounted without SI unit.

2 Type

10	Side ported

5 P, E port entry

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

6 SUP/EXH block assembly

Nil	Internal pilot			
S	Internal pilot, Built-in silencer			

- * 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.

Made to Order (Refer to page 114 for details.)

\			
	Specifica	ation	
External pi	lot (SUP/EX	(H block asser	ıbly)

Valve stations

in the case of the 52-output of unit		
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	
02	2 stations	Connectional laws with 2
:	:	Specified layout*2 (Up to 32 solenoids available)
24	24 stations	(Op to 32 soleriolds available)

In the case of the 16-output SI unit

Symbol	Stations	Note	
02	2 stations		
•	:	Double wiring*1	
08	8 stations	-	
02	2 stations	Considered laws which	
•	:	Specified layout*2 (Up to 16 solenoids available)	
16	16 stations	(Op to 16 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.

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

Symbol	A, B port		JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	
C4		ø4	•	_	_	
C6	돭	ø6	•	•	_	
C8	Straight	ø8	_	•	_	
C10	S.	ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	a
	P, E port size (One-touch fittings)		ø8	ø10	ø12	

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

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



Mounting and Option

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

- Enter the number of stations inside \square 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 \square) is not available for the product without the SI unit (S0).

DIN Rail Option

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

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



How to Order Manifold Assembly

Example (JJ5SY3-10SNAN-□) 2-position double (24 VDC) JSY3200-5U (3 sets) 2-position single (24 VDC) JSY3100-5U (2 sets)

- JJ5SY3-10SNAN-05D-C8 ·· 1 set (Type 10 5-station manifold base part no.) * JSY3100-5U-----2 sets (2-position single part no.)
- * JSY3200-5U------3 sets (2-position double part no.) The asterisk denotes the symbol for the assembly.
- Prefix it to the part numbers of the valve, etc. · The valve arrangement is numbered as the 1st station from the D side.
- · Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

With power saving circuit

Internal Pilot

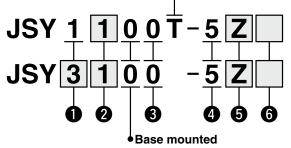
Manifold base (5 stations) JJ5SY3-10SNAN-05D-C8

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

JSY1000 Series

JSY3000/5000 Series



Made to Order (Refer to page 114 for details.) Specification

With power saving circuit (Continuous duty type): 0.1 W (JSY3000/5000)

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method Pilot valve individual exhaust

C Rat	ed voltage	
5		24 VDC

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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

Type of actuation

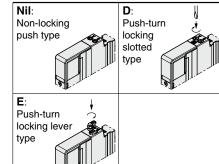
1	2-position	Single	
2	2-position	Double	
3		Closed center	
4 3-position	3-position	Exhaust center	
		Pressure center	
Α	B 4-position dual 3-port	N.C./N.C.	
В		N.O./N.O.	
С		N.C./N.O.	

5 Light/surge voltage suppressor and common specification

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

- * Select a valve from U or Z when the SI unit output polarity is Nil (positive common). Select a valve from U or NZ when the SI unit output polarity is N (negative common).
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

6 Manual override



- Push-turn locking lever type "E" is not available for the JSY1000.
- When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance

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

> Protective class class II (Mark: ♠)



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Chart Valve

D-sub Flat Ribbon

Terminal Block

Lead Wire

EX600 EX250

EX260

EX120 Common Dimensions

Exploded View

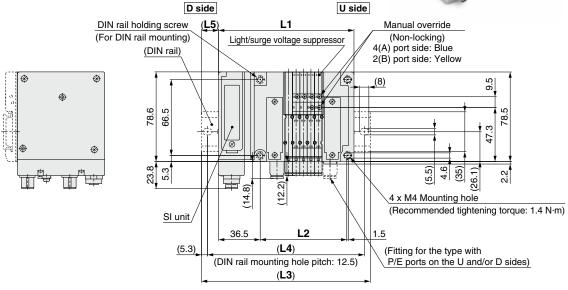
Fittings, Replacement Parts, Tools

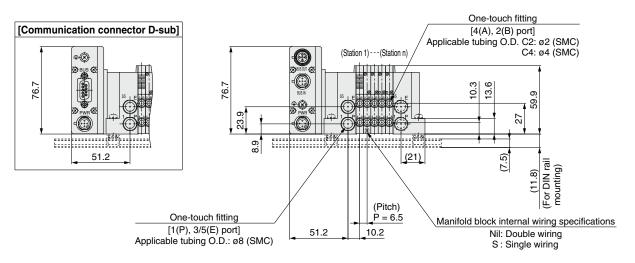
Type 10/Side Ported (Applicable to o2 and o4 fittings)
EX260

Dimensions: JSY1000 Series

JJ5SY1-10S \square -Stations $\stackrel{\text{U}}{p}$ - $\stackrel{\text{C2}}{c4}$ (D)







- * 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

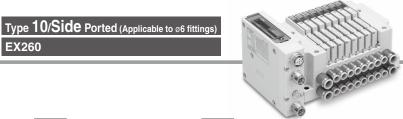
	17	18	19	20	21	22	23	24
L1	196.7	203.2	209.7	216.2	222.7	229.2	235.7	242.2
L2	153.9	160.4	166.9	173.4	179.9	186.4	192.9	199.4
L3	223	235.5	235.5	248	248	260.5	260.5	273
L4	212.5	225	225	237.5	237.5	250	250	262.5
L5	13	16	13	16	13	16	13	16

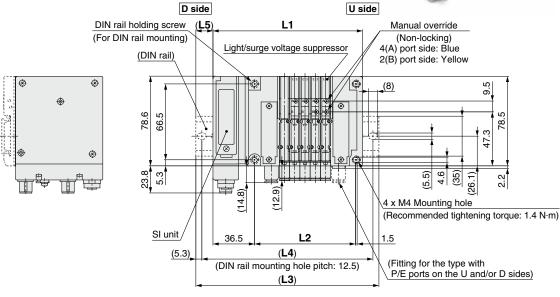
Connector Connecting Base JSY1000/3000/5000 Series

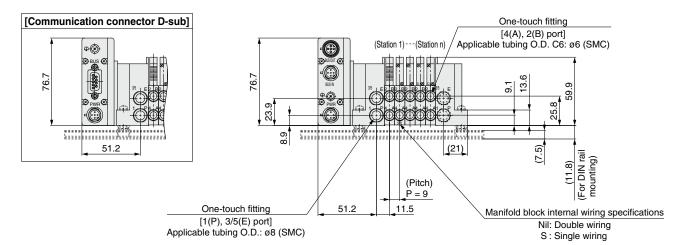
Dimensions: JSY1000 Series

EX260

JJ5SY1-10S - Stations P-C6(D)







 $\ast\,$ These figures show the "JJ5SY1-10SQA-05D-C6."

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

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

L: Dimensions n: Stations

L. Dill		13													. Otations
_ n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	104.2	113.2	122.2	131.2	140.2	149.2	158.2	167.2	176.2	185.2	194.2	203.2	212.2	221.2	230.2
L2	61.4	70.4	79.4	88.4	97.4	106.4	115.4	124.4	133.4	142.4	151.4	160.4	169.4	178.4	187.4
L3	135.5	148	148	160.5	173	173	185.5	198	210.5	210.5	223	235.5	235.5	248	260.5
L4	125	137.5	137.5	150	162.5	162.5	175	187.5	200	200	212.5	225	225	237.5	250
L5	16	18	13	15	17	12	14	16	17	13	15	16	12	14	15

	17	18	19	20	21	22	23	24
L1	239.2	248.2	257.2	266.2	275.2	248.2	293.2	302.2
L2	196.4	205.4	214.4	223.4	232.4	241.4	250.4	259.4
L3	273	273	285.5	298	310.5	310.5	323	335.5
L4	262.5	262.5	275	287.5	300	300	312.5	325
L5	17	13	14	16	18	13	15	17

Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

EX250 EX600 Lead Wire

EX260

EX120

Common Dimensions

Exploded View

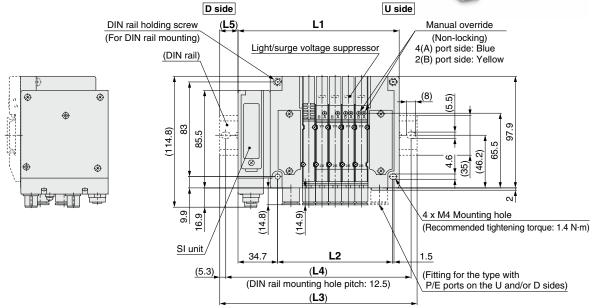
Fittings, Replacement Parts, Tools

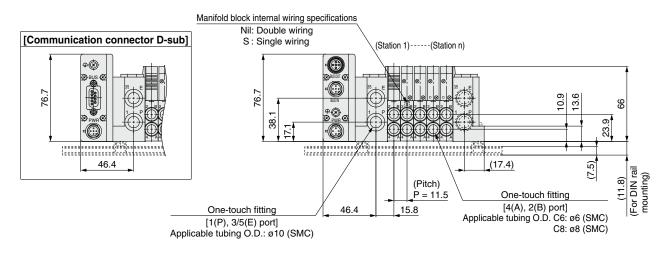
Dimensions: JSY3000 Series

JJ5SY3-10S \square -Stations $\stackrel{\text{U}}{P}$ - $\stackrel{\text{C6}}{\text{C8}}$ (D)

Type 10/Side Ported EX260







- * These figures show the "JJ5SY3-10SQA-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

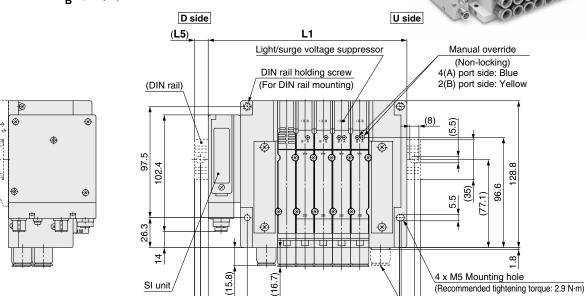
L: Dimensions n: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	106.8	118.3	129.8	141.3	152.8	164.3	175.8	187.3	198.8	210.3	221.8	233.3	244.8	256.3	267.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	135.5	148	160.5	173	185.5	198	210.5	210.5	223	235.5	248	260.5	273	285.5	298
L4	125	137.5	150	162.5	175	187.5	200	200	212.5	225	237.5	250	262.5	275	287.5
L5	15	15	16	16	17	17	18	12	12	13	13	14	14	15	15

	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

Type 10/Side Ported Dimensions: **JSY5000** Series EX260

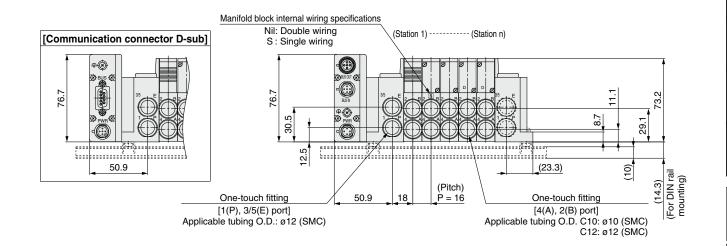
JJ5SY5-10S \square -Stations $\stackrel{\mathsf{U}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{10}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}{\overset{\mathsf{C}}}}{\overset{\mathsf{C}}}}{\overset{\mathsf{C}}}}{\overset{\mathsf{C}}}}{\overset{\mathsf{C}}}}}{\overset{\mathsf{C}}}}{\overset{\mathsf{C}}}}}}$



(**L4**)

(DIN rail mounting hole pitch: 12.5)

(L3)



34.2

(5.3)

- * These figures show the "JJ5SY5-10SQA-05D-C12."
- Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

(Fitting for the type with

P/E ports on the U and/or D sides)

L:	Din	nen	sic	ns

L: DIIII	ension	15												ſ	: Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	126.2	142.2	158.2	174.2	190.2	206.2	222.2	238.2	254.2	270.2	286.2	302.2	318.2	334.2	350.2
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	185.5	198	223	235.5	248	273	285.5	298	310.5	335.5	348	360.5	385.5
L4	150	162.5	175	187.5	212.5	225	237.5	262.5	275	287.5	300	325	337.5	350	375
L5	17	16	14	12	17	15	13	18	16	14	12	17	15	13	18

L n	17	18	19	20	21	22	23	24
L1	366.2	382.2	398.2	414.2	430.2	446.2	462.2	478.2
L2	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	398	410.5	423	448	460.5	473	485.5	510.5
L4	387.5	400	412.5	437.5	450	462.5	475	500
L5	16	14	13	17	15	14	12	16

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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Chart

Valve

Plug-in

D-sub Flat Ribbon

Terminal Block

EX250 EX600 Lead Wire

EX260

EX120

Common Dimensions

Manifold Exploded View

Fittings, Replacement Parts, Tools

Plug-in Connector Connecting Base

EX120

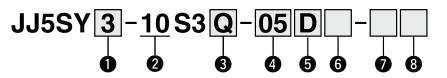
Type 10 Side Ported

JSY1000/3000/5000 Series

(RoHS

Internal Pilot

How to Order Manifolds



1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type

10	Side ported

3 SI unit

0	Without SI unit			
Q	DeviceNet™ (Positive common NPN)			
R1	OMRON CompoBus/S 16 outputs			
R2	(Positive common NPN)	8 outputs		
٧	CC-Link (Positive common NPN)			
ZB *1	CompoNet™	Positive common NPN		
ZBN*1	Componer	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)
	В	Both sides (2 to 16 stations)

6 SUP/EXH block

Nil	Internal pilot	
S Internal pilot, Built-in silen		

- 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

Made to Order (Refer to page 114 for details.)

Specification
External pilot (SUP/EXH block assembly)

4 Valve stations

Symbol	Stations	Note	
02	2 stations		
1	:	Double wiring*1	
08	8 stations		
02	2 stations	0	
	:	Specified layout*2 (Up to 16 solenoids available)	
16	16 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.)
- 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)

	_ •				3,	
Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	_	_	~ (S)
C4		ø4	•	_	_	
C6	물	ø6	•	•	_	
C8	Straight	ø8	_	•	_	
C10	ξ	ø10	_	_	•	
C12		ø12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	O Char
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

8 Mounting and Option

Symbol	Mounting Mounting	
Nil	Direct mounting	
D□	DIN rail mounting	

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

DIN Rail Option

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

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

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



How to Order Manifold Assembly

Example (JJ5SY3-10S3V2-position single (24 VDC) JSY3100-5U (2 sets) 2-position double (24 VDC) JSY3200-5U (3 sets)

- JJ5SY3-10S3V-05D-C8 ···1 set (Type 10 5-station manifold base part no.)
- * JSY3100-5U-----2 sets (2-position single part no.)

 * JSY3200-5U-----3 sets (2-position double part no.)
- →The asterisk denotes the symbol for the assembly.
 - → The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- The valve arrangement is numbered as the 1st station from the D side.
 Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 11 for valve specifications.

Chart

Valve

D-sub Flat Ribbon

Terminal Block

Lead Wire

EX600

EX250

EX260

EX120

Common Dimensions

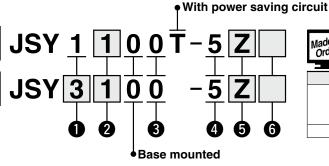
Exploded View

Fittings, Replacement Parts, Tools

JSY1000 Series

Manifold base (5 stations)
JJ5SY3-10S3V-05D-C8

JSY3000/5000 Series



Made to Order (Refer to page 114 for details.)

Specification

With power saving circuit
(Continuous duty type):
0.1 W (JSY3000/5000)

External pilot

1 Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method

	7 7 7 411 7 7 7 7 7 1 1 1 1 1 1 1 1 1 1
0	Pilot valve individual exhaust

4 Rated voltage

5	24 VDC

⚠ Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 114.

Additionally, when it is used at the energizing rate over 50%, please select the product with power saving circuit.

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

2 Type of actuation

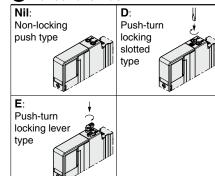
1	2-position	Single	
2	2-position	Double	
3		Closed center	
4	3-position	Exhaust center	
5		Pressure center	
Α	4-position dual 3-port	N.C./N.C.	
В		N.O./N.O.	
С	duai 3-port	N.C./N.O.	

5 Light/surge voltage suppressor and common specification

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

- * Select a valve from U or Z when the SI unit specification is positive common. Select a valve from U or NZ when the SI unit specification is ZBN (negative common).
- * Only "Z" and "NZ" types are available for the JSY1000 series.
- * When non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 117.

6 Manual override



- Push-turn locking lever type "E" is not available for the JSY1000.
- * When ordering a valve individually, the base gasket is not included.

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

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

Protective class class II (Mark: (ii))



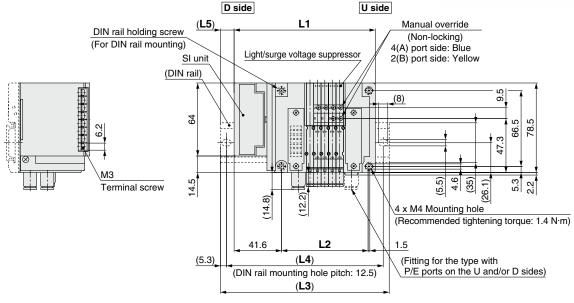
84

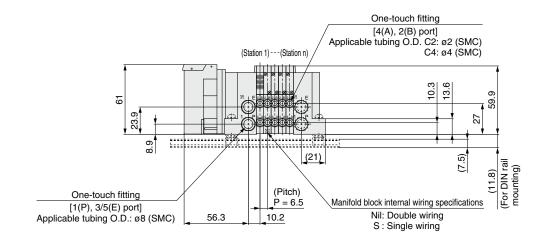
Type 10/Side Ported (Applicable to o2 and o4 fittings)
EX120

Dimensions: JSY1000 Series

JJ5SY1-10S3 \square -Stations $\stackrel{\text{U}}{\text{B}}$ - $\stackrel{\text{C2}}{\text{C4}}$ (D)







- * 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	ension	ıs							r	n: Stations	i
$\overline{}$		_		 	_	_	 _	 	 	 		1

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

Connector Connecting Base JSY1000/3000/5000 Series

Type 10/Side Ported (Applicable to ø6 fittings)

EX120

Dimensions: **JSY1000** Series

JJ5SY1-10S3 - Stations D-C6(D)



Chart

Valve

Plug-in Connector Connecting Base

D-sub Flat Ribbon

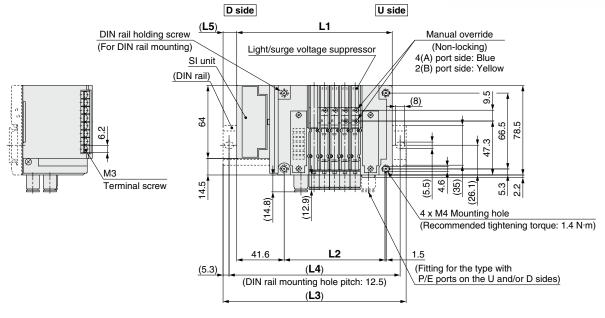
EX260 EX250 EX600 Lead Wire

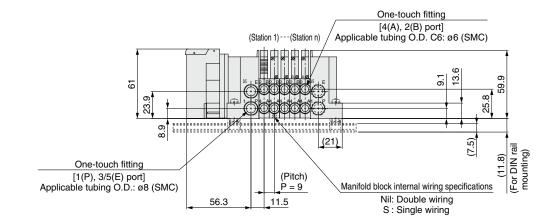
EX120

Common Dimensions

Exploded View

Fittings, Replacement Parts, Tools





- * These figures show the "JJ5SY1-10S3V-05D-C6."
- $\ast\,$ Refer to page 89 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 92 for dimensions.

	Dim	ension	าร										r	: Stations	
$\overline{}$			_		_	_	_	_	- 40	 4.0	4.0	- 4 4	4.5	- 4.0	

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

86

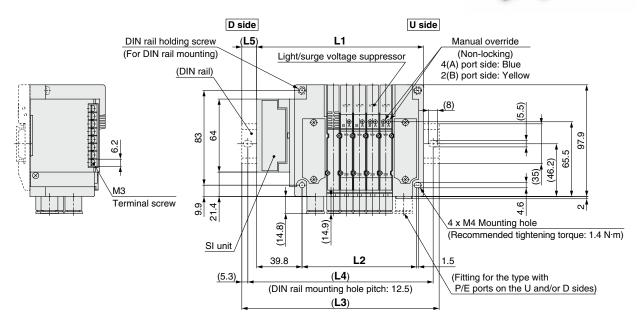
Type 10/Side Ported

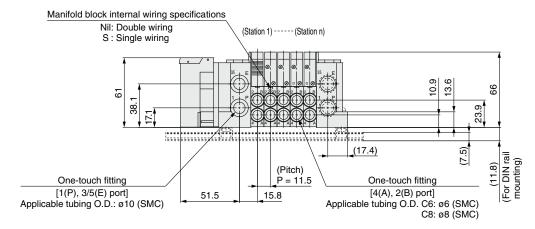
EX120

Dimensions: JSY3000 Series

JJ5SY3-10S3 \square -Stations $\stackrel{\text{U}}{\text{D}}$ - $\stackrel{\text{C6}}{\text{C8}}$ (D)







- * These figures show the "JJ5SY3-10S3V-05D-C8."
- * Refer to page 90 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: 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

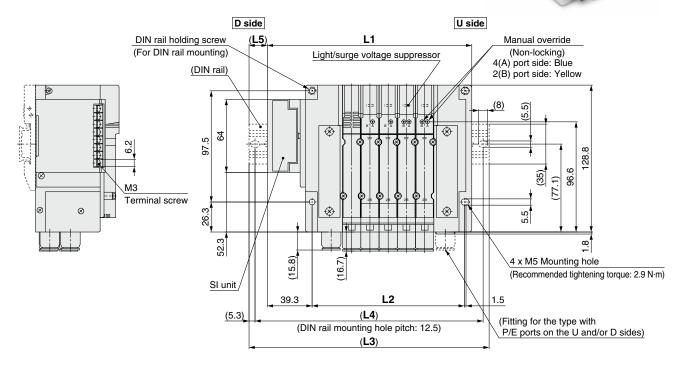
Connector Connecting Base JSY1000/3000/5000 Series

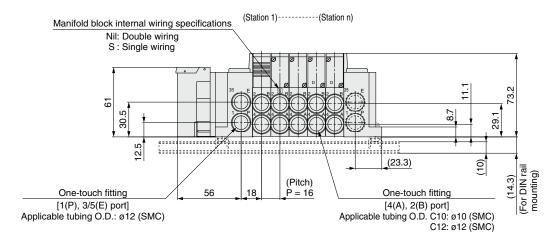
Type 10/Side Ported

Dimensions: **JSY5000** Series

JJ5SY5-10S3 \square - Stations $\stackrel{\text{U}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}}{\stackrel{\text{C10}}}}{\stackrel{\text{C10}}}}\stackrel{\text{C10}}{\stackrel{\text{C}}}}\stackrel{\text{C10}}}{\stackrel{\text{C}}}\stackrel{\text{C10}}}}\stackrel{\text{C}}}\stackrel{\text{C10}}}\stackrel{\text{C}}}\stackrel{\text{$







- * These figures show the "JJ5SY5-10S3V-05D-C12."
- Refer to page 91 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions

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

n: Stations

Chart

Valve

Plug-in Connector Connecting Base

D-sub Flat Ribbon

Terminal Block

EX260 EX250 EX600 Lead Wire

EX120

Common Dimensions

Manifold Exploded View

Fittings, Replacement Parts, Tools

JSY1000/3000/5000 Series Common Dimensions

Type 10/Side Ported

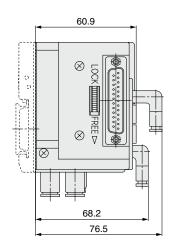
Dimensions: **JSY1000** Series

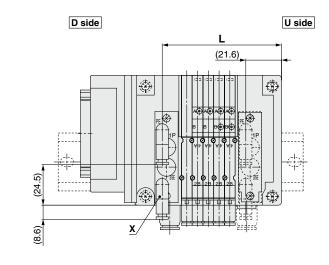
External Pilot, Built-in Silencer

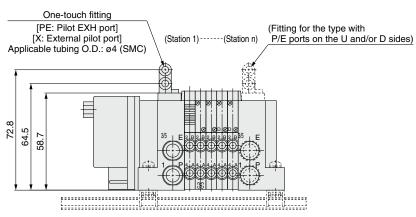
JJ5SY1-10 \square - Stations $\stackrel{\text{U}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}\stackrel{$

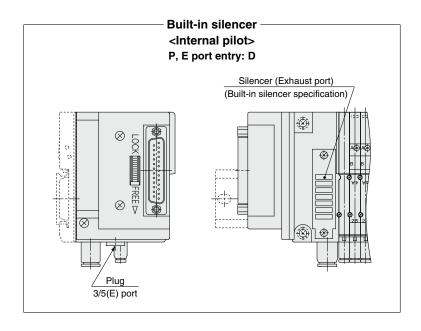
External pilot (Made to Order)

P, E port entry: D









Calculation formula for L dimensions

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

- n1: Number of 6.5 mm pitch manifold block stations (Applicable fitting: Ø2, Ø4)
- n2: Number of 9 mm pitch manifold block stations (Applicable fitting: Ø6)
- * These figures show the "JJ5SY1-10F2-05DR-C4."

Common Dimensions JSY1000/3000/5000 Series

Type 10/Side Ported

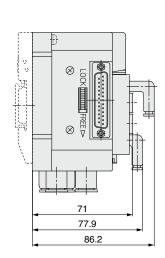
Dimensions: **JSY3000** Series

External Pilot, Built-in Silencer

JJ5SY3-10 \square - Stations $\stackrel{\text{U}}{\stackrel{\text{R}}{\stackrel{\text{C}}{\stackrel{\text{R}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C$

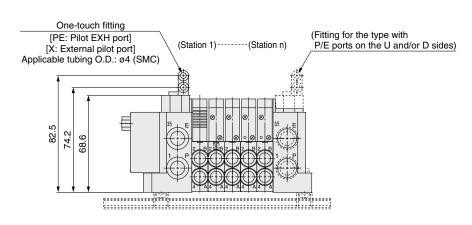
External pilot (Made to Order)

P, E port entry: D

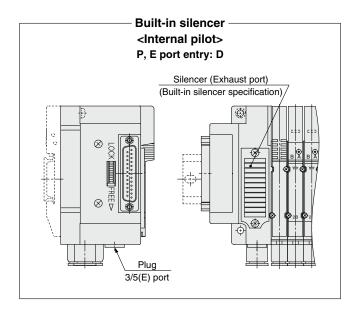


Calculation formula for L dimensions $L = 11.5 \times n + 33.4$

n: Manifold stations



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



Chart

Valve

Plug-in Connector Connecting Base

Flat Ribbon

ire Block

EX250 EX600 Lead Wire

EX260 EX;

EX120

Manifold kploded View

ittings, Replacement
Parts, Tools

Manifold Options

Made to Order

> Specific Product Precautions



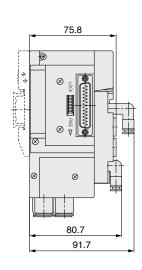
Type 10/Side Ported

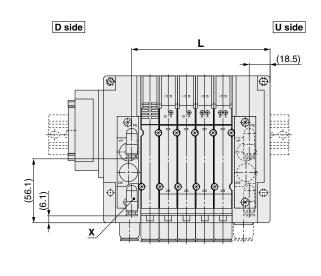
Dimensions: **JSY5000** Series

External Pilot, Built-in Silencer

External pilot (Made to Order)

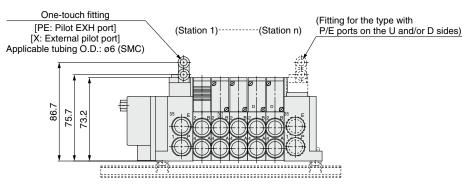
P, E port entry: D



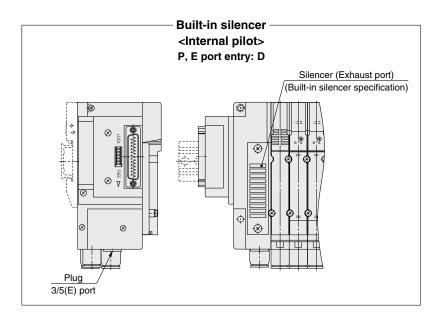


Calculation formula for L dimensions $L = 16 \times n + 41.5$

n: Manifold stations



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

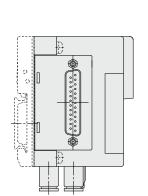


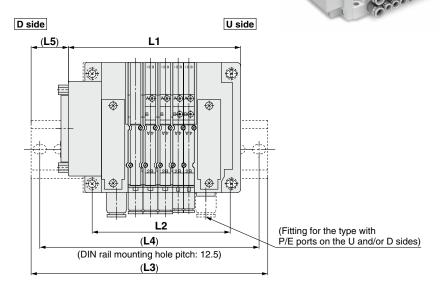
Type 10/Side Ported

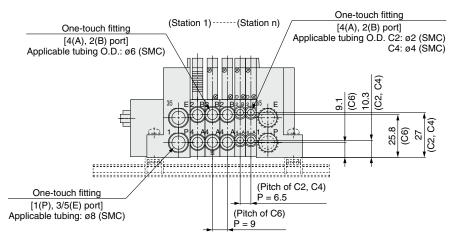
Dimensions: JSY1000 Series

Mixed Size, Straight Port Type

JJ5SY1-10 - Stations D-CM







- st Refer to page 89 for dimensions of external pilot and built-in silencer.
- Refer to pages 63 to 66, 73, and 74 for dimensions when L6, b, and d are used for the calculation formula.
- Refer to pages below for dimensions that are not specified in each wiring specification.

D-sub connector (IP40/Connector entry direction adjustable): pp. 21, 22
D-sub connector (IP20/Compact type): pp. 27, 28
Flat ribbon cable (IP40/Connector entry direction adjustable): pp. 30, 31
Flat ribbon cable (IP20/Compact type): pp. 34, 35
Spring type terminal block box: pp. 43, 44
Terminal block box: pp. 47, 48
Lead wire: pp. 55, 56
EX600: pp. 63 to 66

EX250 : pp. 73, 74 EX260 : pp. 79, 80

EX120 : pp. 85, 86

Calculation formula for dimensions

 $L1 = 6.5 \times n1 + 9 \times n2 + a + b \times n3$

 $L2 = 6.5 \times n1 + 9 \times n2 + 43.4$

 $M = \{(L1 + c) / 12.5\} + 1$ Decimal fractions are truncated.

 $L3 = 12.5 \times M + 23$

L4 = L3 - 10.5

L5 = (L3 - L1 + c) / 2

 $L6 = b \times n3 + d$

- n1: Number of 6.5 mm pitch manifold block stations (Applicable fittings: \emptyset 2, \emptyset 4) n2: Number of 9 mm pitch manifold block stations (Applicable fittings: \emptyset 6)
- n3: Number of I/O units or input block stations

Coefficient	а	b	С	d			
D-sub connector (IP20/Compact type)	64.1	_	6.1	_			
D-sub connector/Flat ribbon cable (IP40/Connector entry direction adjustable)	83	_	6.1	_			
Flat ribbon cable (IP20/Compact type)	59.1	_	11.2	_			
Spring type terminal block box	125.5	_	_	_			
Terminal block box	146.8	_	_	_			
Lead wire	94.5	_	_	_			
Serial transmission: EX600 (M12 connector)	139	47	_	83.8			
Serial transmission: EX600 (7/8 inch connector)	155.5	47	_	83.8			
Serial transmission: EX250	139	21	_	83.8			
Serial transmission: EX260	86.2	_	_	_			
Serial transmission: EX120	91.3	_	_	_			
:: FIM ID out connector (ID67)] is not available for the ISV1000							

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



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Courtesy of Steven Engineering, Inc - (800) 258-9200 - sales@steveneng.com - www.stevenengineering.com

Valve Chart

Plug-in Connector Connecting Base

I D-sub Flat Ribbon

Lead Wire B

EX250 EX600

EX120 EX260

imensions

ent Manifold Exploded Vie

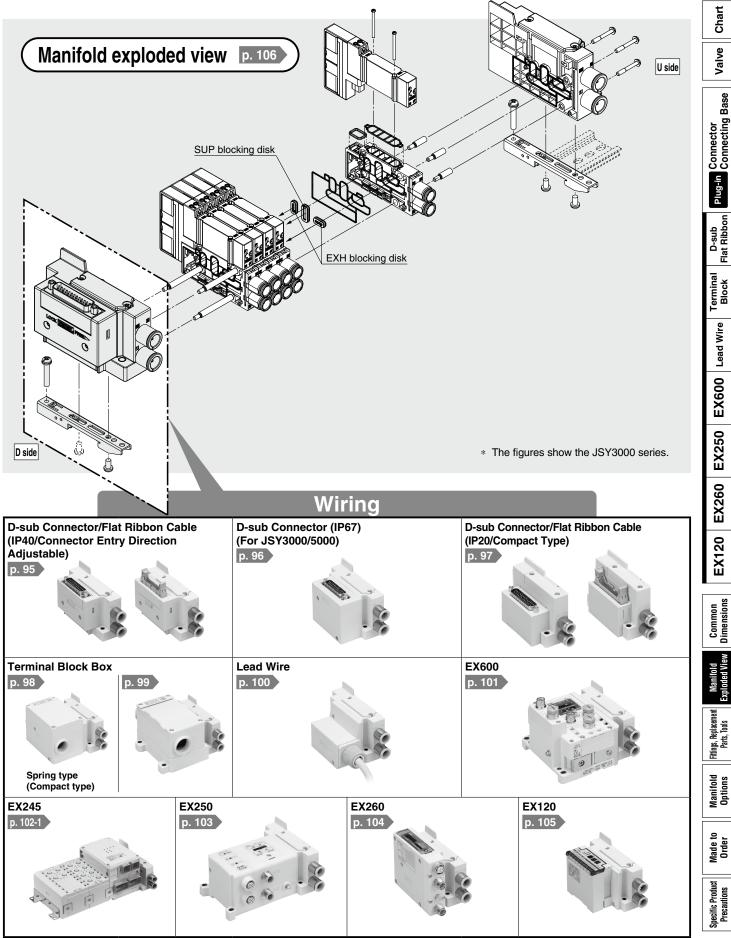
Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

Specific Product Precautions

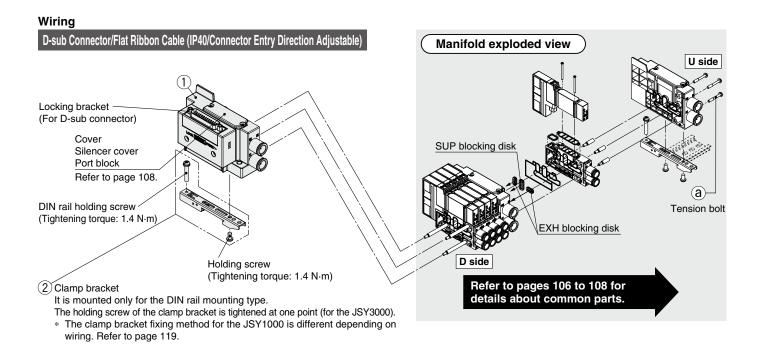
JSY1000/3000/5000 Series Type 10 **Connector Connecting Base Manifold Exploded View**



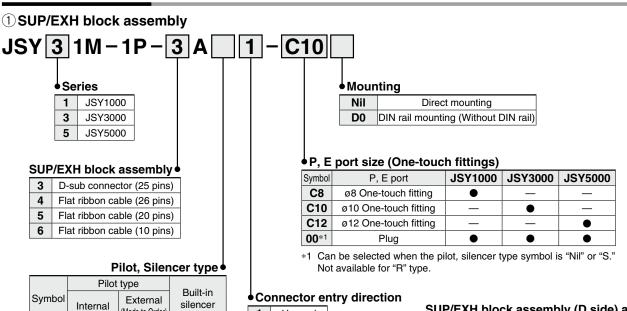
Chart

Valve

EX120 EX260 EX250 EX600 Lead Wire



Manifold Parts Nos.



Upward

Lateral

2

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

(Made to Order)

•

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

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

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

2 Clamp bracket

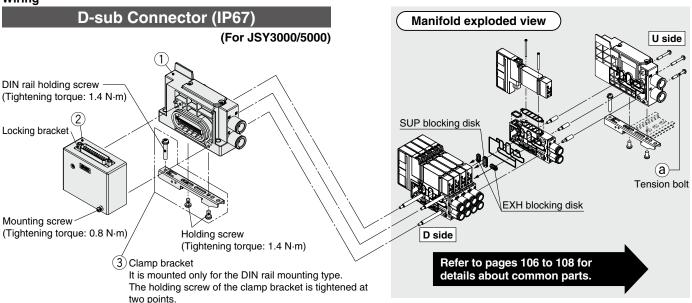
Nil

S R

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

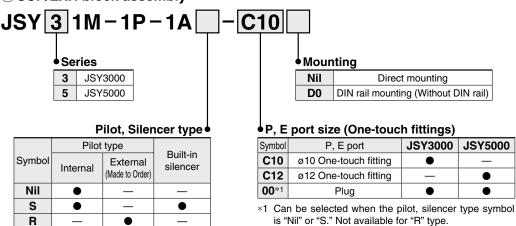
^{*} Part number is for one piece.





Manifold Parts Nos.





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

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

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

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

2 D-sub connector block <for IP67>

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.

Valve

Chart

Connecting Base

D-sub Flat Ribbon

Terminal Block

Lead Wire **EX600**

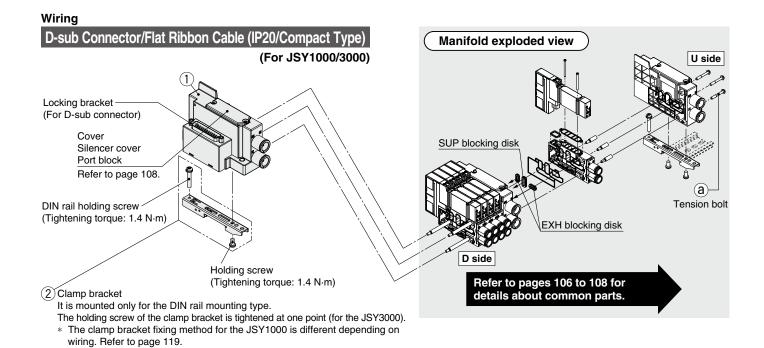
EX250

EX260 EX120

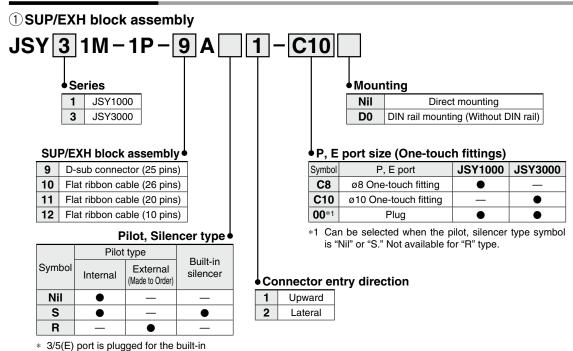
Common Dimensions



JSY1000/3000 Series



Manifold Parts Nos.

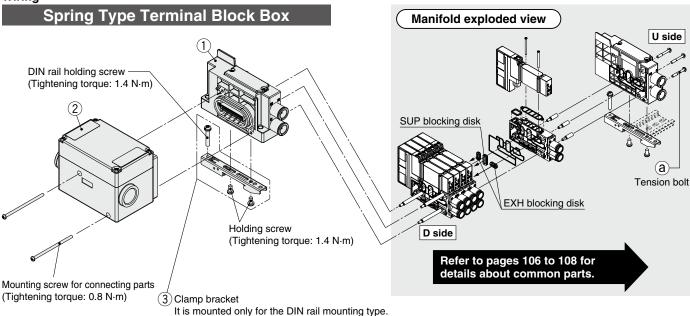


2 Clamp bracket

silencer type.

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

^{*} Part number is for one piece.



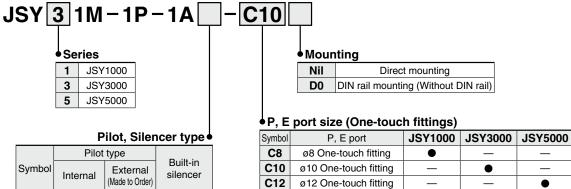
The holding screw of the clamp bracket is tightened at two points.

st The clamp bracket fixing method for the JSY1000 is different depending on wiring. Refer to page 119.

Plug

Manifold Parts Nos.





00*1

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

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

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

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

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

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

2 Terminal block assembly

SY30M-130-1A

3 Clamp bracket

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

^{*} Part number is for one piece.

Connector Connecting Base

Chart

Valve

D-sub Flat Ribbon

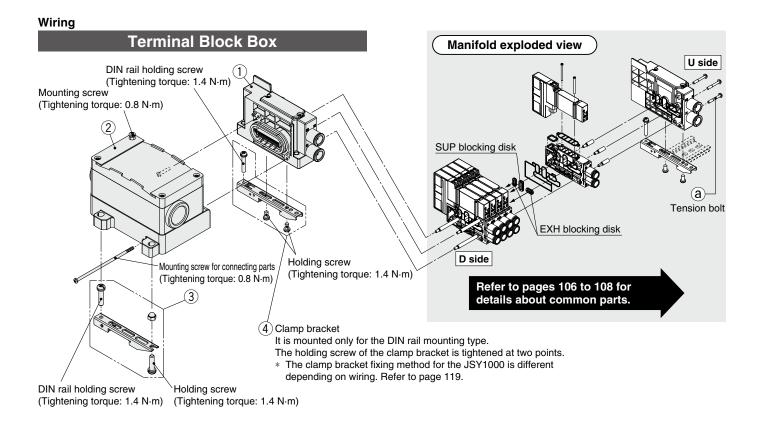
EX600 Lead Wire

EX250

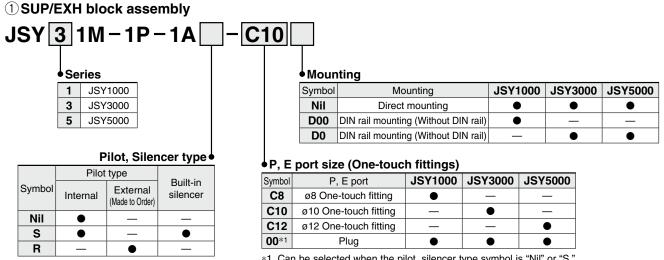
EX260 EX120

Common Dimensions





Manifold Parts Nos.



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

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

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

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

2 Terminal block box housing assembly

VVQC1000-T0-1

3 Clamp bracket for terminal block box

SY30M-15-4A

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

^{*} Part number is for one piece.



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

Wiring **Lead Wire** Manifold exploded view U side DIN rail holding screw (Tightening torque: 1.4 N·m) SUP blocking disk (a) Tension bolt EXH blocking disk Mounting screw (Tightening torque: 0.8 N·m) Holding screw D side (Tightening torque: 1.4 N·m) Refer to pages 106 to 108 for details about common parts.

Manifold Parts Nos.

1) SUP/EXH block assembly

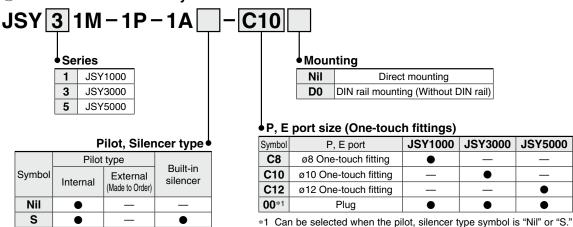
(3) Clamp bracket

It is mounted only for the DIN rail mounting type.

depending on wiring. Refer to page 119.

The holding screw of the clamp bracket is tightened at two points.

* The clamp bracket fixing method for the JSY1000 is different



Not available for "R" type.

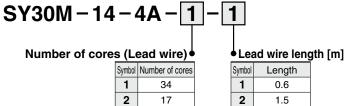
SUP/EXH block assembly (D side) accessories and the number of accessories

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

st1 Since the nuts are embedded in the SUP/EXH block.

② Lead wire connector block assembly

3



9

3

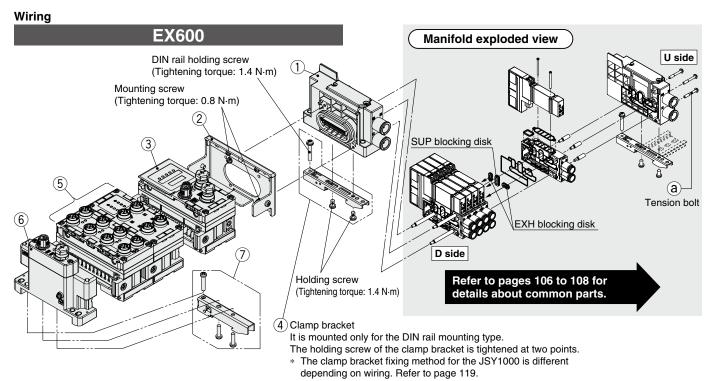
3

3 Clamp bracket

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

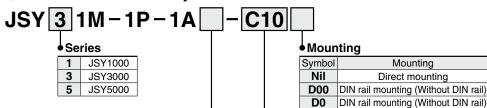
^{*} Part number is for one piece.

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



Manifold Parts Nos.

1) SUP/EXH block assembly



	Pilot, Silencer type		
	Pilot type		Duille in
Symbol	Internal	External (Made to Order)	Built-in silencer
Nil	•	_	_
S	•	_	•
В			

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

With mounting screws (2 pcs. of M4 x

P, E port size (One-touch fittings)

Sym	nbol	P, E port	JSY1000	JSY3000	JSY5000
С	8	ø8 One-touch fitting	•	_	_
C1	10	ø10 One-touch fitting	fitting — — —		_
C1	12	g 12 One-touch fitting —		_	•
00	*1	Plug	•	•	•
00		1 149			

Mounting

Direct mounting

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

4 Clamp bracket

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

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

* Part number is for one piece.

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

JSY1000 JSY3000 JSY5000

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

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

③ EX600 SI unit

6 and 2 pcs. of M3 x 8)

2 Valve plate

EX600-S PR

EX600-ZMV2

Protocol • Symbol Description PR PROFIBUS DP DN DeviceNet™ CC-Link MJ EtherNet/IP™*1 ΕN EtherCAT*1

*1 Cannot be communicated with the EX600-HT1-□

PROFINET*1

Version

Symbol	Description
Nil	When MJ, EN, EC,
INII	or PN is selected
Α	When PR or DN is selected

Output type

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

(Wireless compatible)

EX600 - W EN 1

Protocol

Symbol	SI unit type	Description
EN	Wireless base module	EtherNet/IP™*1
PN	Wireless base module	PROFINET*1
SV	Wireless remote module	*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

Symbol	Description
1	PNP (Negative common)
2	NPN (Positive common)



EC

PN

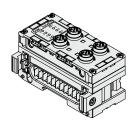
5 EX600 Digital input unit

EX600-DX PB

Number of inputs, Open-circuit detection, and Connector

	put type •
Symbol	Description
P	PNP
N	NPN

Symbol	Number of inputs	Open-circuit detection	Connector
В	8	No	M12 connector (5 pins) 4 pcs.
С	8	No	M8 connector (3 pins) 8 pcs.
C1	8	Yes	M8 connector (3 pins) 8 pcs.
D	16	No	M12 connector (5 pins) 8 pcs.
E	16	No	D-sub connector (25 pins)*1*2
F	16	No	Spring type terminal block (32 pins)*1*2
Г	10	INO	Spring type terminal block (32 pins)



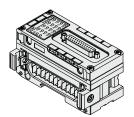
5 EX600 Digital output unit

EX600-DY PB

Number of outputs and Connector

<u> </u>	pat type s
Symbol	Description
Р	PNP
N	NPN

	- italiador di darpato ana domicotor				
Symbol	Number of outputs	Connector			
В	8	M12 connector (5 pins) 4 pcs.			
E	16	D-sub connector (25 pins)*1*2			
F	16	Spring type terminal block (32 pins)*1*2			



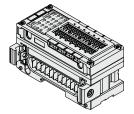
5 EX600 Digital input/output unit

EX600-DM P

Number of inputs/outputs and Connector

Symbol	Description
P	PNP
N	NPN

	Symbol Number of inputs			
			Number of outputs	Connector
	E	8	8	D-sub connector (25 pins)*1*2
	F	8	8	Spring type terminal block (32 pins)*1*2



5 EX600 Analog input/output unit

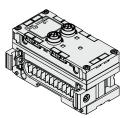
• Numl	ber of	input	channel	s and	Connect	to

naiog input/output						
	Symbol	Description				
	AX	Analog input				
	AY	Analog output				

Symbol Number of input channels						Conr	necto	r					
Α	A 2 channels		M12	conn	ector	(5 pir	ıs) 2	2	ocs.	*3			

^{*3} Refer to *1 and *2 below for AY.

Mounting

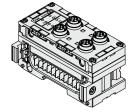


5 EX600 Analog input/output unit

EX600-AMB

Analog input/output

• Nu	liber of lilbard	S and Connector			
Symbo	Number of input channels	Number of output channels	Connector		
В	2 channels	2 channels	M12 connector (5 pins)		



6 EX600 End plate

EX600-ED

	Power connector
Symbol	Connector
2	M12 power supply connector, B-coded
3	7/8 inch power supply connector
4	M12 power supply connector IN/OUT,
4	A-coded, Pin arrangement 1
5	M12 power supply connector IN/OUT,
3	A-coded, Pin arrangement 2

Symbol	Description
Nil	Without DIN rail mounting bracket
3	With DIN rail mounting bracket

^{*} The pin layout for "4" and "5" pin connector is different.

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



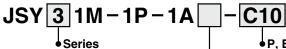
JSY3000/5000 Series

Wiring

EX245 Joint assembly M3 hexagon socket head cap screw Tightening torque: (0.75 to 0.85) N·m Manifold exploded view U side Joint assembly SUP blocking disk M4 hexagon socket head cap screw Tightening torque: (1.2 to 1.4) N·m (a)-Tension bolt EXH blocking disk Refer to pages 106 to 108 for D side

Manifold Parts Nos.

1) SUP/EXH block assembly



JSY3000 **5** JSY5000

Pilot, Silencer type

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

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

P, E port size (One-touch fittings)

Symbol	P, E port	JSY3000	JSY5000
C10	ø10 One-touch fitting	•	_
C12	ø12 One-touch fitting	_	•
00*1	Plug	•	•

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

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

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

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

2 EX245 SI Unit











Symbol	Communication connector	Power supply connector		
1A	Push Pull connector (SCRJ): 2 pcs.	Push Pull connector (24 V): 2 pcs.		
2A	Push Pull connector (RJ45): 2 pcs.	Push Pull connector (24 V): 2 pcs.		
3A	M12 connector (4-pin, Socket, D-coded): 2 pcs.	7/8 inch connector (5-pin, Plug): 1 pc.		

details about common parts.

EX245-SPN2A EX245-SPN3A EX245-SPN1A

A 102-1



Connector type

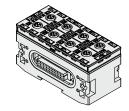
Manifold Parts Nos.

③ EX245 Digital input module

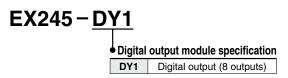


DX1

Digital input (16 inputs)

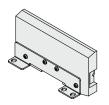


③ EX245 Digital output module





4 EX245 End Plate



Chart

Valve

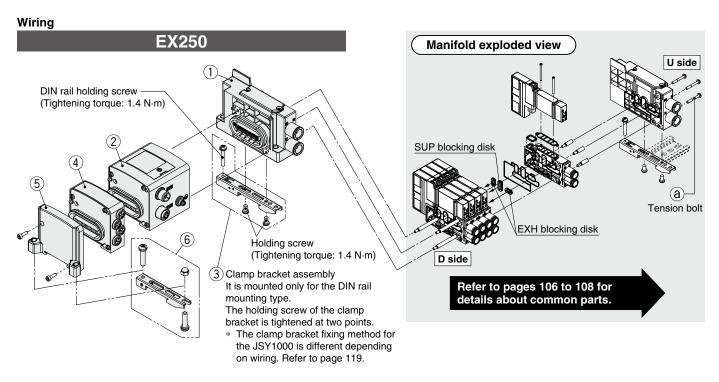
Plug-in Connector Connecting Base

EX250 EX600 Lead Wire

EX260 EX120

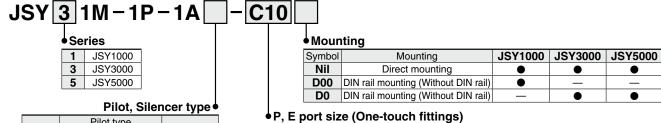
^{*} Refer to page 70-1 for manifold valve part numbers. Bracket 3 to 5 correspond to the mounting hole pitch of each manifold valve.





Manifold Parts Nos.

1) SUP/EXH block assembly



i not, ononeer type							
	Pilot	Duille in					
Symbol	Internal	External (Made to Order)	Built-in silencer				
Nil	•	_	_				
S	•	_	•				
R	_	•	_				

 3/5(E) port is plugged for the built-in silencer type.
 Symbol
 P, E port
 JSY1000
 JSY3000
 JSY5000

 C8
 Ø8 One-touch fitting
 ●
 —
 —

 C10
 Ø10 One-touch fitting
 —
 —
 —

 C12
 Ø12 One-touch fitting
 —
 —
 ●

 00*1
 Plug
 ●
 ●
 ●

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

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

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

2 EX250 SI unit

EX250-S DN1

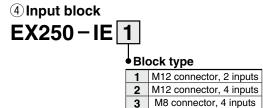
• Communication protocol

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	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	9 AS-Interface (4 in/4 out, 31 slave modes, 1 common type) (Negative common)			
CA1A CANopen (Negative common)				
EN1	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.



5 EX250 End plate assembly

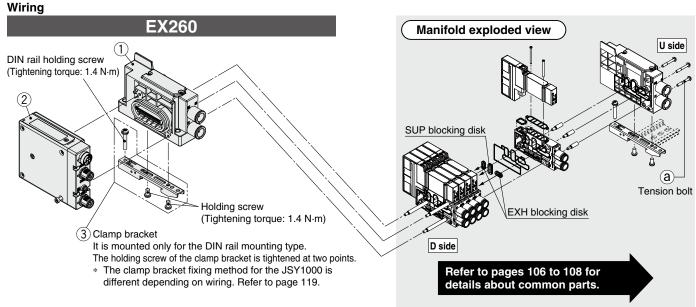
EX250 - EA1

- * With mounting screws (2 pcs. of M3 x 10)
- 6 Clamp bracket assembly for EX250

SY30M-15-3A

* Part number is for one assembly.

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



Manifold Parts Nos.

1) SUP/EXH block assembly

Symbol

C8

"R" type.

C10

Pilot, Silencer type							
	Pilot	Built-in					
Symbol	Internal	External (Made to Order)	silencer				
Nil	•	_	_				
S	•	_	•				
R	_	•	_				

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

C12 ø12 One-touch fitting
00*1 Plug

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

P, E port

ø8 One-touch fitting

ø10 One-touch fitting

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

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

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

JSY1000 | JSY3000 | JSY5000

② EX260 SI unit

EX260-S PR1

Communication protocol

Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol	Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol
DN1		32	Source/PNP (Negative common)		QAN	EC1		32	Source/PNP (Negative common)		DAN
DN2	DeviceNet™	32	Sink/NPN (Positive common)	M12	QA	EC2	EtherCAT	32	Sink/NPN (Positive common)	M12	DA
DN3	Devicemet	16	Source/PNP (Negative common)	IVI I Z	QBN	EC3	EllierCAT	16	Source/PNP (Negative common)	IVI I Z	DBN
DN4		16	Sink/NPN (Positive common)		QB	EC4		16	Sink/NPN (Positive common)		DB
PR1		32	Source/PNP (Negative common)		NAN	PN1		32	Source/PNP (Negative common)		FAN
PR2		32	Sink/NPN (Positive common)	M12	NA	PN ₂	PROFINET	32	Sink/NPN (Positive common)	M12	FA
PR3		16	Source/PNP (Negative common)	IVI I Z	NBN	PN ₃	PHOFINE	16	Source/PNP (Negative common)	IVI I Z	FBN
PR4	PROFIBUS DP	10	Sink/NPN (Positive common)		NB	PN4		10	Sink/NPN (Positive common)		FB
PR5	רווסטווסט אר	32	Source/PNP (Negative common)		NCN	EN1		32	Source/PNP (Negative common)		EAN
PR6		52	Sink/NPN (Positive common)	D-sub*1	NC	EN2	EtherNet/IP™		Sink/NPN (Positive common)	M12	EA
PR7		16	Source/PNP (Negative common)	D-Sub 1	NDN	EN3	Ellelivelir	16	Source/PNP (Negative common)	IVIIZ	EBN
PR8		10	Sink/NPN (Positive common)		ND	EN4		10	Sink/NPN (Positive common)		EB
MJ1		32	Source/PNP (Negative common)		VAN	PL1	Ethernet	32	Source/PNP (Negative common)	M12	GAN
MJ2	CC-Link	,	Sink/NPN (Positive common)	M12	VA	PL3	POWERLINK	16	Source/FINF (Negative common)	IVIIZ	GBN
MJ2 MJ3		16	Source/PNP (Negative common)	IVIIZ	VBN	IL1	IO-Link	32	Source/PNP (Negative common)	M12	KAN
MJ4		10	Sink/NPN (Positive common)		VB						

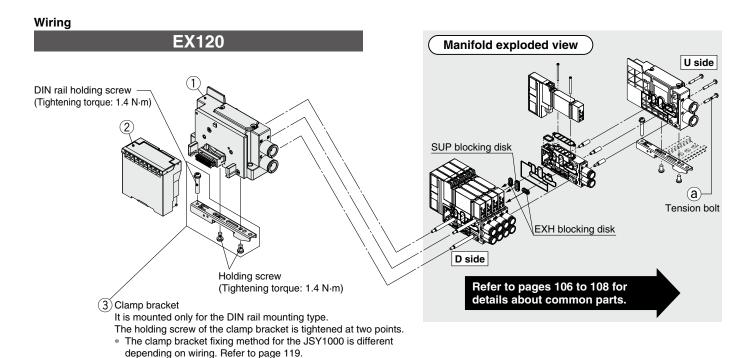
 $[\]ast 1$ Enclosure is IP40 when the communication connector is D-sub.

3 Clamp bracket

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

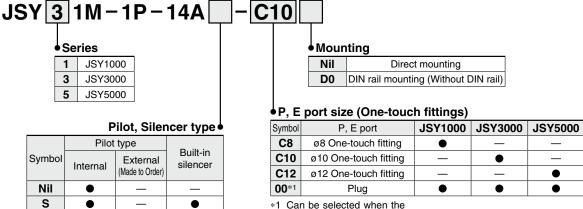
^{*} Part number is for one piece.





Manifold Parts Nos.





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

•

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

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

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

2 EX120 SI unit

R

EX120-S DN1

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	M1 CompoNet™ NPN (Positive common)			
СМЗ	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.



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

Chart

Valve

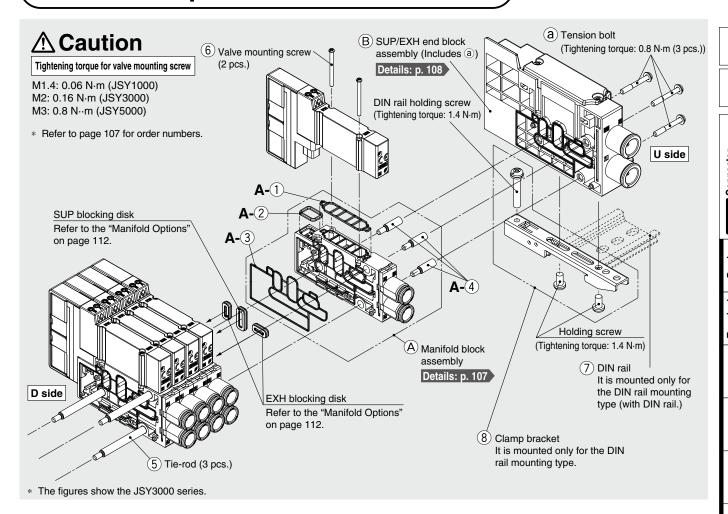
Connecting Base

EX250 EX600 Lead Wire

EX260

EX120

Manifold Exploded View [Common Parts]



Type 10: How to Increase Connector Type Manifolds

Loosen the U-side tension bolt @, and remove the B SUP/EXH end block assembly.

2 Screw in 4 tie-rods for additional stations to the (5) tie-rod of the manifold.

Screw them in until there is no gap between the tie-rods.

Connect the (A) manifold block assembly and (B) SUP/EXH end block assembly to be added, and tighten the tension bolt @.

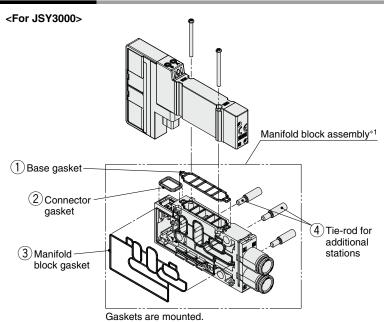
Tightening torque for tension bolt @ (M3): 0.8 N·m

⚠ Caution

1. Be sure to shut off the power and air supplies before disassembly.

Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.

2. When disassembly and assembly are performed, air leakage may result if the tightening of the tension bolt is inadequate.



*1 Manifold block assembly

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

Refer to page 107 for ordering single unit.

② Connector gasket is not applicable to the JSY1000.

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

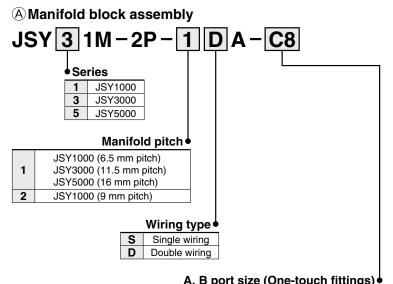
No.		Description	JSY ⁻	1000	JSY3000	JSY5000	Note
INO.		Description	6.5 mm pitch	9 mm pitch	J513000	J515000	
A- ①	~	Base gasket (for connector	IQV11N	/LΩD_1 Λ	JSY31M-9P-1A	JSY51M-9P-1A	Part numbers shown on the
	Connecting base)		JSY11M-9P-1A		03131W-3F-1A	US IS INI-SF-IA	left are for 10 valves. (10 pcs.)
A- ②	음습	Connector gasket	-	_ SX30		0-146-2	Supplied individually
A- ③	Manifold block gasket JSY11M-9P-2 Tie-rod for JSY11M-49P-1-1-A JSY11M-49P-2-1-A JS		JSY31M-9P-2	JSY51M-9P-2	Supplied individually		
A- 4	ه ا	Tie-rod for	JSY11M-49P-1-1-A	JSY11M-49P-2-1-A	JSY31M-49P-1-1-A	SV2000-55-2A-A	2 nee cumplied
A- (4)	_	additional stations*1	(6.5 mm pitch)	(9 mm pitch)	(11.5 mm pitch)	(16 mm pitch)	3 pcs. supplied
(5)	Tie-rod		JSY11M-49P-1-□-A	JSY11M-49P-2-□-A	JSY31M-49P-1-□-A	SV2000-55-1-□-A	☐: Manifold stations (2 to 24
(3)			(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	vaiv	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	8 Clamp bracket*2 (for connector connecting base)		JSY11M-15P-1A (Ref JSY11M-15P-2A (Ref	er to the table below.)*2 er to the table below.)	SY30M-15-1A	SY50M-15-1A	Supplied individually

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

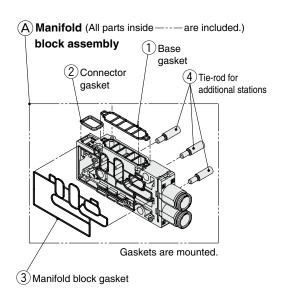
Table. JSY1000 series clamp bracket

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

Manifold Parts Nos.



A, B port size (One-touch itt				i iittiiigs) •	
Symbol	A D nort	JSY1000		ICVAGG	ICVEGGG
Symbol	A, B port	6.5 mm pitch	9 mm pitch	JSY3000	JSY5000
C2	ø2 One-touch fitting	•	_	_	_
C4	ø4 One-touch fitting	•	_	_	_
C6	ø6 One-touch fitting	_	•	•	_
C8	ø8 One-touch fitting	_	_	•	_
C10	ø10 One-touch fitting	_	_		•
C12	ø12 One-touch fitting	_	_	_	•



Manifold block assembly accessories and the number of accessories

Accessories	Quantity
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.



^{*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.

Chart

Valve

Plug-in Connector Connecting Base

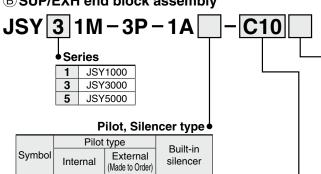
Lead Wire

EX600

EX250

EX260

EX120



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

Nil

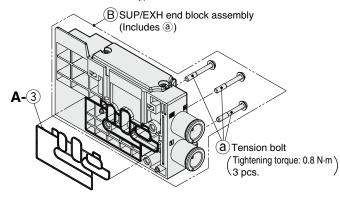
S R

P, E port size (One-touch fittings)

•

	, i			
Symbol	P, E port	JSY1000	JSY3000	JSY5000
C8	ø8 One-touch fitting	•	_	_
C10	ø10 One-touch fitting	_	•	_
C12	ø12 One-touch fitting	_	_	•
00*1	Plug	•	•	•

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



Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)
D00*1 DIN rail mounting (Without D	

*1 Part number only for the JSY1000 Part number is different depending on the wiring. Refer to Table 1.

Table 1. JSY1000 series DIN rail mounting

	<u> </u>				
Symbol	Wiring				
D0	D-sub connector (F type) Flat ribbon cable (P □ type) Spring type terminal block box (TC type) Lead wire (L type) EX260 (S □□ type) EX120 (S 3 type)				
D00	Terminal block box (T type) EX600 (S6 type) EX250 (S □ type)				

SUP/EXH end block assembly accessories and the number of accessories

Accessories	Quantity
Tension bolt	3 pcs.
A-③ Manifold block gasket	1 pc.

Gasket is mounted.

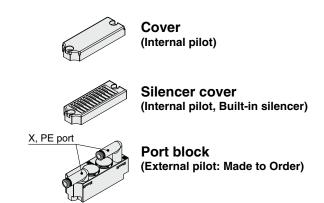
® Clamp bracket

Series		Part no.				
JSY1000	For D0	JSY11M-15P-1A				
3511000	For D00	JSY11M-15P-2A				
JSY3000		SY30M-15-1A				
JSY5000		SY50M-15-1A				

- * Part number is for one piece.
- * Part number of the JSY1000 is different depending on the manifold

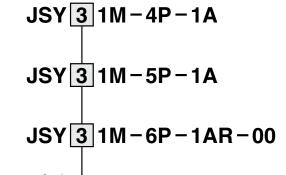
Refer to the Table 1. JSY1000 series DIN rail mounting for selecting a clamp bracket.

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



- Cover, silencer cover, and port block are included in the SUP/EXH (end) block assembly, but they need to be ordered for piping specification change.
- Mounting screws (2 pcs.) for SUP/EXH end block assembly are included.

Tightening torque for mounting screw JSY1000 (M2.5): 0.32 N·m JSY3000 (M3): 0.8 N·m JSY5000 (M4): 1.4 N·m



Series • JSY1000 JSY3000 JSY5000

⚠ Caution

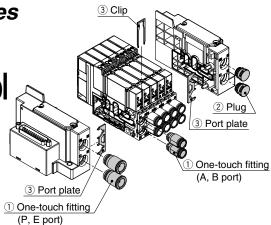
- 1. Be sure to shut off the power and air supplies before disassembly. Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.
- 2. When disassembly and assembly are performed, air leakage may result if the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

多SMC

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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

	Series	JSY ⁻	1000	JSY3000	JSY5000	Note	
Port size		6.5 mm pitch	9 mm pitch	J513000	J515000	Note	
	ø2	KQSY10-C2	_	_	_		
	ø4	KQSY10-C4-X1336	_	_	_		
A, B port	ø6	_	KQSY11-C6-X1336	KQSY30-C6	_		
A, b port	ø8	_	_	KQSY30-C8-X1336	_]	
	ø10	_	_	_	KQSY50-C10	Part number is for one piece. (Sales unit: 10 pcs.)	
	ø12	_	_	_	KQSY50-C12-X1336	(Gales unit: 10 pcs.)	
	ø8	KQSY30-	C8-X1336	_	_		
P, E port	ø10	_	_	KQSY31-C10-X1336	_		
	ø12	_	_	_	KQSY50-C12-X1336		

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

2 Plug

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.

3 Clip, Port Plate

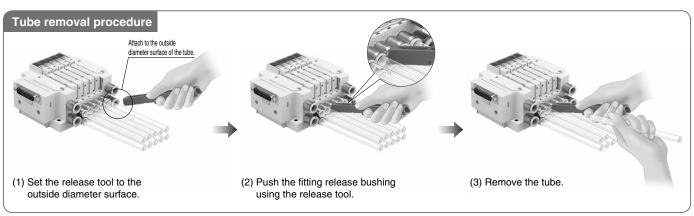
Series	JSY ⁻	1000			
Piping port	For A, B port C2/C4 fittings	For A, B port C6 fittings	JSY3000	JSY5000	Note
A, B port (Clip)	SJ1000-CL-1	SJ1000-CL-1 JSY11M-19P-1A		JSY51M-19P-1A	Part number is for 10 pieces.
P, E port (Port plate)	JSY11N	Л-10P-1	JSY31M-10P-1	JSY51M-10P-1	Part number is for one piece.

st 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
	6.5 mm pitch	9 mm pitch	FOI 3313000	FOI 35 15000
Part no.	TG-0204	TG-0608	TG-0608	TG-1012
Applicable tubing O.D.	ø2/ø4	ø6	ø6/ø8	ø10/ø12



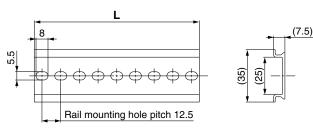


JSY1000/3000/5000 Series Manifold Options

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

VZ1000-11-1-□

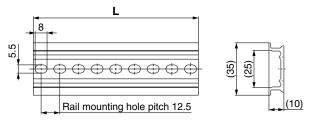
* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box □.



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 \Box .



			r											r					
No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
L dimension	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5	323
Weight [g]	24.8	28	31.1	34.3	37.4	40.6	43.8	46.9	50.1	53.3	56.4	59.6	62.7	65.9	69.1	72.2	75.4	78.6	81.7
No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
L dimension	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523	535.5	548	560.5
Weight [g]	84.9	88	91.2	94.4	97.5	100.7	103.9	107	110.2	113.3	116.5	119.7	122.8	126	129.2	132.3	135.5	138.6	141.8
No.	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56
			-									-					-		
L dimension	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5	798
L dimension Weight [g]		585.5 148.1	598 151.3	610.5 154.5	623 157.6	635.5 160.8	648 163.9	660.5 167.1	673 170.3	685.5 173.4	698 176.6	710.5 179.8	723 182.9	735.5 186.1	748 189.2	760.5 192.4	773 195.6	785.5 198.7	798 201.9
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				

Chart

Valve

Plug-in Connector Connecting Base

Flat Ribbon

Block

EX600 Lead Wire

EX260 EX250 E

EX120 EX2

nensions

Manifold Exploded View

Fittings, Replacement Parts, Tools

Manifold Options

Made to

Specific Product Precautions



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

* Refer to page 113 for dimensions.

Manifold Options

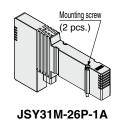
■Blanking plate

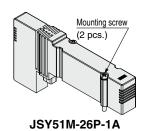
[With two mounting screws]

Used when valve additions are expected or for maintenance.



JSY11M-26P-1A



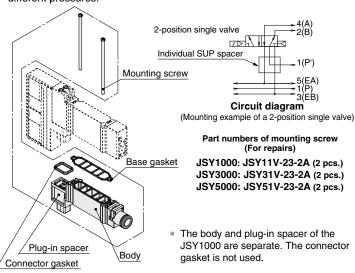


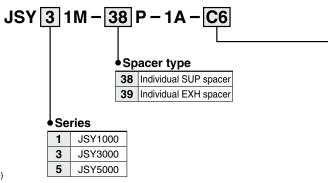
JSY 3 1M - 26P - 1A **Series** JSY1000 JSY3000 3 5 JSY5000 (B) (EA) (P) (EB)

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 different pressures.



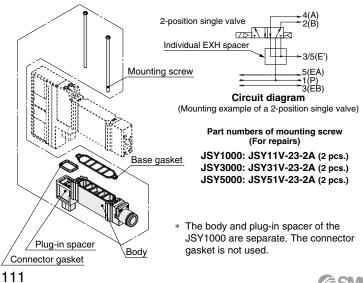


Port size (One-touch fittings)

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

■ Individual EXH spacer

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



Manifold Options JSY1000/3000/5000 Series

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.)

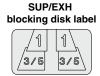


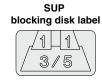
Series	SUP blocking disk	EXH blocking disk
JSY1000	JSY11M-40P-1A	JSY11M-40P-1A
JSY3000	JSY31M-40P-1A	JSY31M-40P-2A
JSY5000	JSY51M-40P-1A	JSY51M-40P-1A

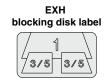
* If the blocking disk is ordered using the

■ 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)







manifold specification sheet and ordere at the same time as the manifold, the position where the blocking disk is inserted will be labeled and shipped out	
35 E	

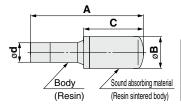
Series	Part no.
JSY1000	
JSY3000	SJ3000-155-1A
JSY5000	

■ Silencer

(One-touch fitting connection type) This silencer can be mounted to the 3/5

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

* Shipped together with the product



Series (ø d)	Model	Effective area	Α	В	С
For JSY1000 (ø8)	AN15-C08	20 mm ²	45	13	20
For JSY3000 (ø10)	AN20-C10	30 mm ²	57.5	16.5	30.5
For JSY5000 (ø12)	AN30-C12	41 mm ²	71.5	20	43.5

EX120

Chart

Valve

Connecting Base

D-sub Flat Ribbon

EX600 Lead Wire

EX250

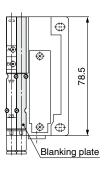
EX260

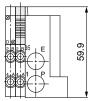


Dimensions: Manifold Options

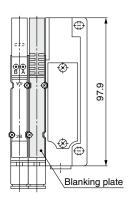
■ Blanking plate

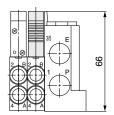
JSY1000 series



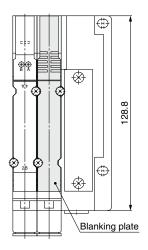


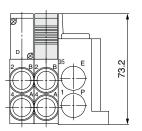
JSY3000 series





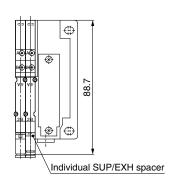
JSY5000 series

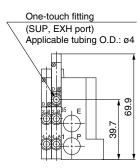




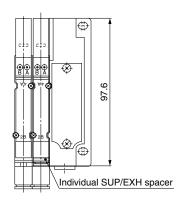
■ Individual SUP/EXH spacer

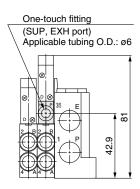
JSY1000 series



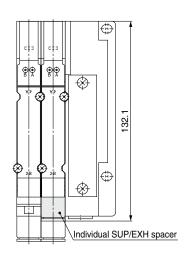


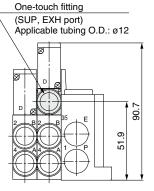
JSY3000 series





JSY5000 series





JSY1000/3000/5000 Series Made to Order

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



Chart

Valve

Plug-in Connector Connecting Base

EX600 Lead Wire Block

EX250

EX260

EX120

Common Dimensions

Manifold Exploded View

1 External Pilot

How to Order Manifolds

Refer to the How to Order manifolds for each type.

For D-sub Connector/Flat Ribbon Cable/Lead Wire pp. 19, 53

For Terminal Block Box p. 41

JJ5SY
$$\frac{1}{5}$$
 - 10 $\frac{T}{TC}$ - $\frac{1}{R}$ - $\frac{1}{R}$

For EX260/EX245/EX120 pp. 77, 70-1, 83

JJ5SY
$$\frac{1}{5}$$
 - 10 $\frac{S}{S3}$ \square - \square \square \square \square

pp. **61**, **71**

SUP/EXH block assembly R External pilot

- * The combination of external pilot type "R" and silencer type "S" is not available.
- Only the JSY3000/5000 can be selected for the EX245.

For EX600/EX250



P, E port entry, SUP/EXH block assembly

P, E port entry	External pilot
U side (2 to 10 stations)	G
D side (2 to 10 stations)	Н
Both sides (2 to 24 stations)	J

How to Order Valves

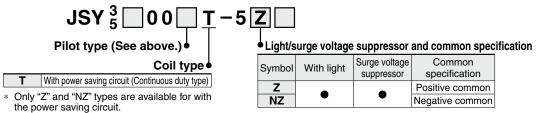
- * External pilot specification is not applicable for 4-position dual 3-port valves.
- * When pilot type "R" is selected, select the external pilot type "R" for the manifold SUP/EXH block assembly, and select either of "G/H/J" for the EX600/EX250 manifold.

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

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

0.1 W: JSY3000/5000

How to Order Valves





114 ®



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

Environment

△ Warning

- 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.
- 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.
- When using built-in silencer type manifold with an IP67 enclosure, keep the exhaust port of the silencer from coming in direct contact with water or other liquids.

Valve Mounting

∧ Caution

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

Series	Thread size	Tightening torque
JSY1000	M1.4	0.06 N·m
JSY3000	M2	0.16 N·m
JSY5000	М3	0.8 N·m

Manual Override

⚠ Warning

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

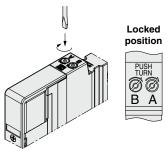
Push down on the manual override button until it stops.



■ 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.

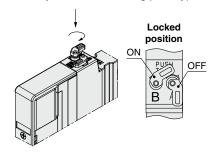


Manual Override

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.



Carefully check the manual override projection amount.

Max. (at OFF): 3.7 mm

⚠ Caution

Do not apply excessive torque when turning the manual override. $[0.1\ N{\cdot}m]$

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

Used as a 3-Port Valve

⚠ Caution

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

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

Plug position Type of actuation		B port	A port	
		N.C.	N.O.	
solenoids	Single	(A)4 2(B) ✓► 1 3(EB) (EA)5 1 3(EB)	(A)4 2(B) (EA)5 1 3(EB) (P)	
Number of	Double	(A)4 2(B) (EA)5 1 3(EB) (P)	(A)4 2(B) (EA)5 1 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 "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Light/Surge Voltage Suppressor

⚠ Caution

■ Polar type

Positive common

Single solenoid

Light/surge voltage suppressor (□Z)

Negative common Single solenoid

Light/surge voltage suppressor (□NZ) Polarity protection diode LED

Polarity protection diode [SOL.a

Positive common

Double solenoid, 3-position, 4-position

Light/surge voltage suppressor (□Z) COM Polarity protection diode

Negative common

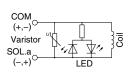
Double solenoid, 3-position, 4-position

Light/surge voltage suppressor (□NZ) LFD COM I FD Polarity protection diode

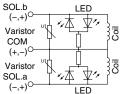
■ Non-polar type

With light/surge voltage suppressor (□U)

Single solenoid



Double solenoid



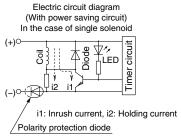
* Non-polar type is not available for the JSY1000.

■ With power saving circuit

(JSY3000/5000 series products are made to order.)

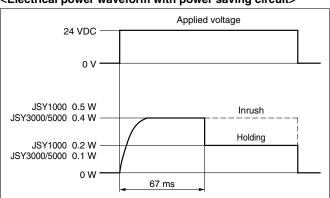
Power consumption is decreased to approx. 1/2.5 to 1/4 of the amount consumed at startup by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 67 ms at 24 VDC.)

<Standard>



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

<Electrical power waveform with power saving circuit>



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

Residual voltage of the surge voltage suppressor

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

Residual Voltage

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

Continuous Duty

⚠ Caution

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

Energization of a 2-Position Double Solenoid Valve

∕ Caution

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



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

Countermeasure for Surge Voltage Intrusion

⚠ Caution

■ Sneak-in of surge voltage

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

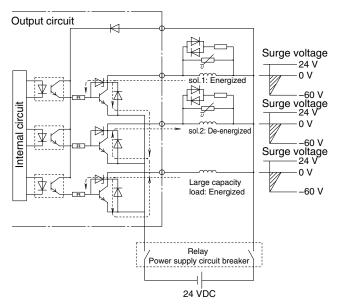


Figure 1. Surge intrusion circuit example (NPN outlet example) (24 VDC)

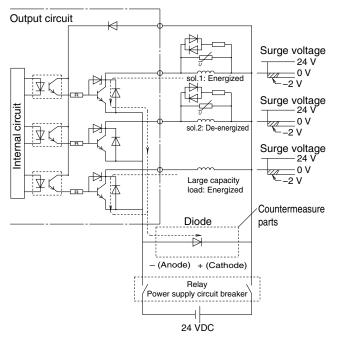
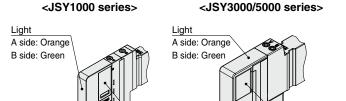


Figure 2. Surge intrusion circuit example (NPN outlet example) (24 VDC)

Light Indication

⚠ Caution

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



Solenoid a

Solenoid b

Solenoid a

Solenoid b

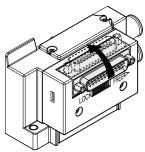


⚠ Caution

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

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

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



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

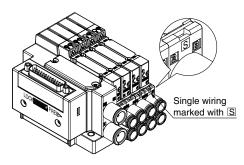
How to Replace One-touch Fittings

∧ Caution

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.

How to Order Manifolds

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 $\boxed{\mathbb{S}}$.)



Substrate inside Manifolds

∧ Caution

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

Fixation of DIN Rail Mounting Type Manifolds

∧ Caution

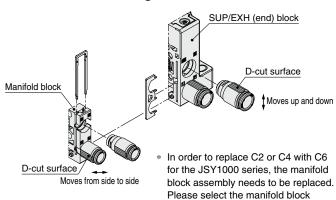
- 1. When the manifold is fixed with bolts on a mounting surface etc., it can be operated just by fixing on both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, fix the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 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.

⚠ 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 on page 107.

<Assembly method>

· SUP/EXH (end) block

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

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

· Manifold block

Assemble the fitting so that the D-cut surfaces of the fitting face <u>sideways</u>.

Fitting part no.: KQSY10-C4-X1336 (JSY1000) KQSY11-C6-X1336 (JSY1000)

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

Valve

Plug-in Connector Connecting Base

Flat Ribbon

Block

EX600 Lead Wire

EX250

EX120 EX260

Common Dimensions

Manifold Exploded View

ittings, Replacement Parts, Tools

Nanifold Options

ade to Order

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 "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Other Tube Brands

⚠ Caution

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

1) Nylon tube within ± 0.1 mm 2) Soft nylon tube within ± 0.1 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

⚠ Caution

■ Tube attachment/detachment for One-touch fittings

1) Tube attachment

- 1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc., making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.
- 2. Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
- 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.
- Pull out the tube while holding down the release button so that it does not come out. If the release button is not pressed down sufficiently, there will be increased bite on the tube and it will become more difficult to pull it out.
- 3. When the removed tube is to be used again, cut off the portion which has been chewed before reusing it. If the chewed portion of the tube is used as is, this can cause trouble such as air leakage or difficulty in removing the tube.

Fixing Method of JSY1000 Series Clamp Bracket

∧ Caution

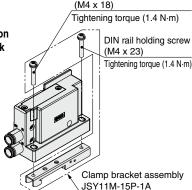
The clamp bracket fixing method for the JSY1000 series is different depending on wiring.

Clamp bracket holding screw

■ Wiring

<For D-sub connector/Flat ribbon cable/Spring type terminal block box/Lead wire/EX260/EX120>

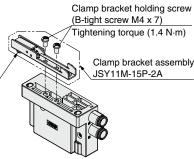
* When the DIN rail is not accommodated in the clamp bracket, loosen the DIN rail holding screw once and insert the DIN rail.



<For Terminal block box/EX600/EX250>

DIN rail holding screw Tightening torque (1.4 N·m)

 If the tightening torque of the holding screws is too much, the SUP/EXH end block will be broken.



Installation

⚠ Caution

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

■ Trademark

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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JJ5SY3-10FC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Compact Type <ip20></ip20>	p. 19
JJ5SY3-10FW	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector <ip67></ip67>	p. 19
JJ5SY3-10L1	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 53
JJ5SY3-10L2	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 53
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JJ5SY5-10L3	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 53
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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.

Caution: Caution indicates a hazard with a low level of risk which, If not avoided, could result in minor or moderate injury.

Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

⚠ Danger: Danger indicates a nazaru wiiii a nigin ieve, on no.
if not avoided, will result in death or serious injury. **Danger** indicates a hazard with a high level of risk which, *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.

⚠ 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 catalog 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.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent 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 catalog.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.

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

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

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

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

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

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

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.