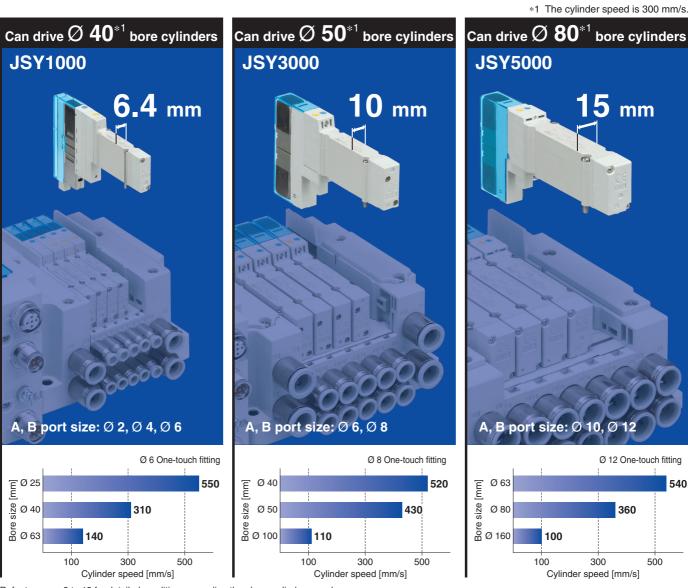




Compact 5-Port Solenoid Valve

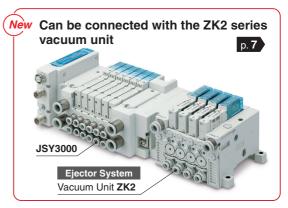
Size reduction has been made possible thanks to a flow increase.

This allows for space saving, weight reduction, and a large flow rate



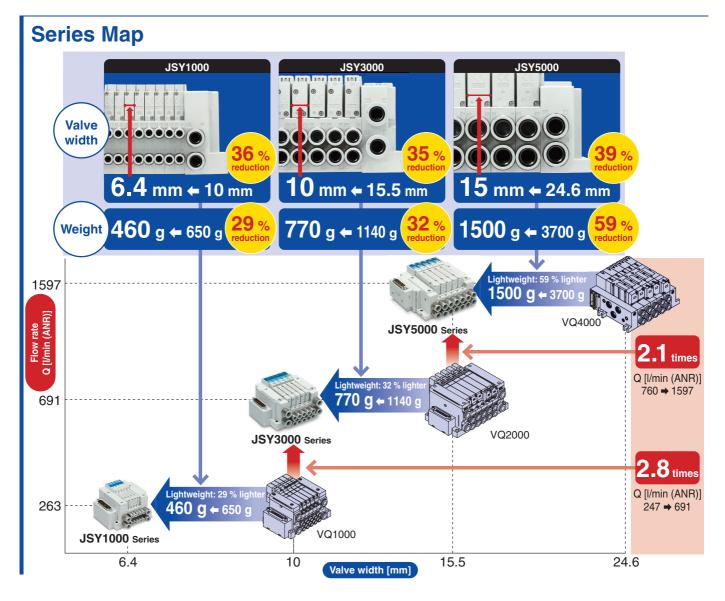


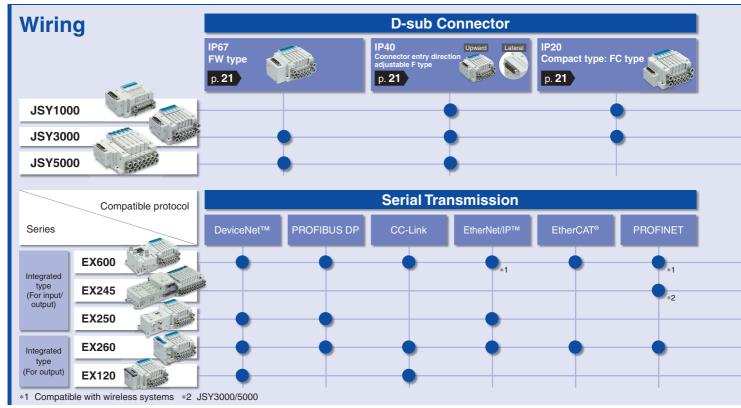




JSY1000/3000/5000 Series







Power consumption

*1 Made to Order

With powersaving circuit JSY3000/5000 *1 JSY1000 O.1 W O.2 \

Standard

JSY3000/5000 *2 **0.4** W

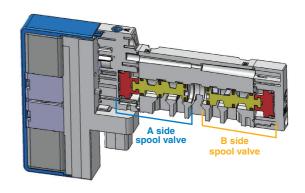
*2 The JSY1000 series is only available as the power-saving type.

Connector type manifold Plug-in Cenlarged view of the connector>

Connector type manifold 32 outputs

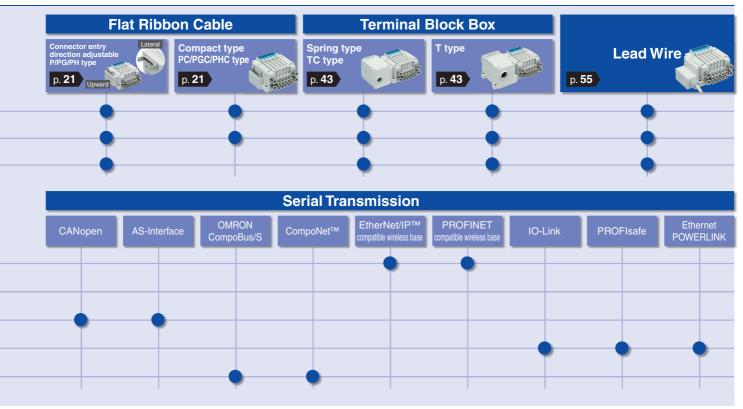
A 4-position dual 3-port valve is available.

• Features two 3-port valves built into one body



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

Series	A side	B side
JSY□A0□	N.C. valve	N.C. valve
JSY□B0□	N.O. valve	N.O. valve
JSY□C0□	N.C. valve	N.O. valve



The EX600-W series is compatible with wireless systems. **D.63**

Noise resistance

- Uses the 2.4 GHz ISM frequency band
- Frequency hopping: Every 5 ms

■ High-speed connection

- From power supply ON to start of communication: Min. 250 ms*1
- *1 For the wireless remote type

■ Communication response

 Wireless communication signal Response time: 5 ms

Compatible protocols





Communication cables not required

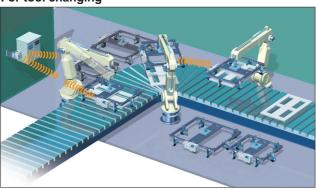
- Reduced wiring work, space, and cost
- Minimised disconnection risk

Number of I/O points

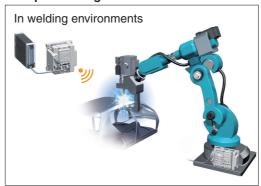
Max. 1280 inputs/1280 outputs (Max. 128 inputs/128 outputs per module)

Application Examples

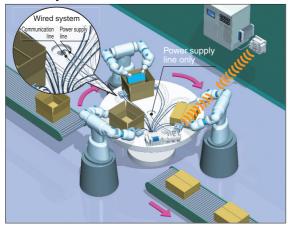
For tool changing



For spot welding



For rotary tables



The EX260 series supports safety communication (PROFIsafe).

■ This is a Fieldbus unit which supports safety standard ISO 13849-compliant safety circuit constructions.



PROFIsafe is established as an international standard (IEC 61784-3-3). It is a communication protocol that transmits safety-related data by PROFINET communication and can be used up until safety standards ISO 13849-1 PL e and IEC 61508/IEC 62061 SIL 3.

Using the safety communication protocol

Refer to the EX260 Web Catalogueue for details on units that support the safety communication protocol. When using a manifold valve within an ISO 13849-compliant safety system, the device needs to be considered from both the pneumatic circuit and the electric side.

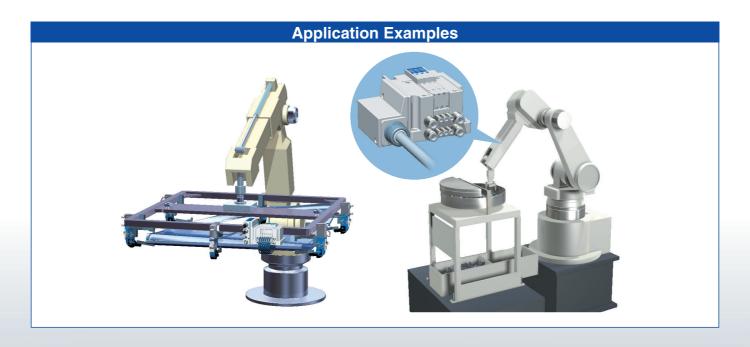
Devices (including valves) need to be selected based on whether their functions are in line with the safety level of the equipment as a whole.

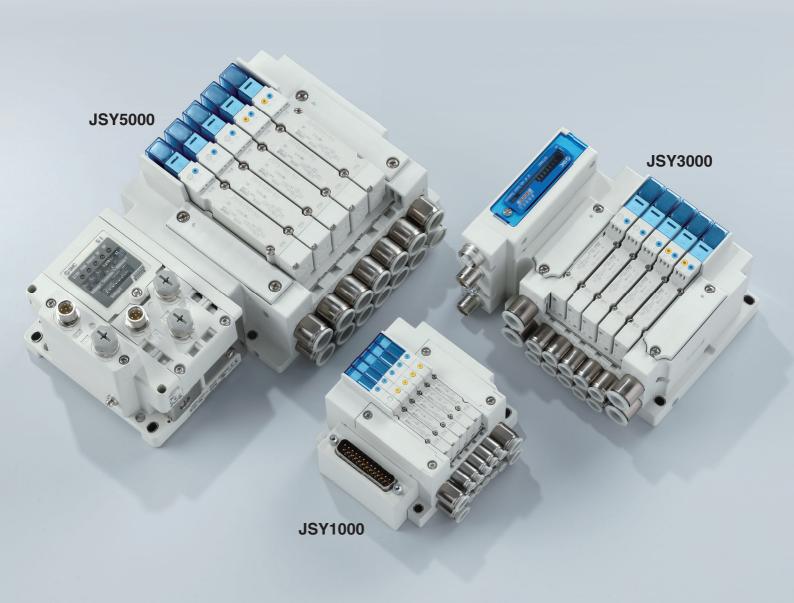
The use of valves that have been validated as being compliant with ISO 13849-2 may be required. For details on valves that have been validated, please contact SMC.

In addition, refer to "Safety Instructions" for precautions on model selection.









Series Variations

Flow rate Q [l/min (ANR)] { 4/2→5/3 {(A/B→EA/EB)} 4(A), 2(B) port					Port size 4(A), 2(B) port								
		5/3	Type of actuation		Rated voltage	Ø 2					Ø 12	1(P), 3/5(E) port	
JSY1000	Ø 4	250	2-position single (A)4 2(B) (EA)5 1 3(EB) (P)	3-position pressure centre (A)4 2(B) (B)		•	•					Ø 8	
	Ø 6	263	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) 2(B) 5(EA) 1(P) 3(EB)	24			•				90	
JSY3000	Ø 8	691	3-position closed centre (A)4 2(B) (EA)5 1 3(EB) (P)	N.O. valve x 2 pcs. 4(A) 2(B) 5(EA) 1(P) 3(EB)	VDC			•	•			Ø 10	
JSY5000	Ø 12	1597	3-position exhaust centre (A)4 2(B) (EA)5 1 3(EB) (P)	N.C. valve, N.O. valve x 1 pc. of each 4(A) 2(B) 5(EA) 1(P) 3(EB)						•	•	Ø 12	

Standard ○ Option ▲ Made to Order

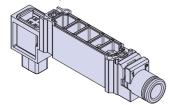
Manifold Options

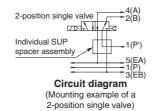
p. **132**

p. **132**

■Individual SUP spacer

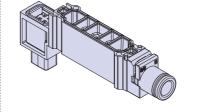
When the same manifold is to be used for different pressures, an individual SUP spacer can be used to act as a supply port for different pressures.

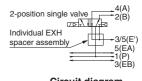




Individual EXH spacer

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

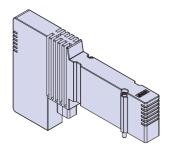


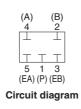


Circuit diagram (Mounting example of a 2-position single valve)

Blanking plate

Used when valve additions are expected or for maintenance





■ Silencer (One-touch fitting connection type)

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





p. **132**



Plug-ir

	Wiring		Wiring Manifold options						Valve options					
Ditch	Common sp	ecifications	ate	UP	X	- X	, xs	ouch type)	ncer	-w. a	- S	5. (1)	βι	Φ
Pitch width [mm]	Positive common	Negative common	Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP/EXH blocking disk	Label for blocking disk	Silencer (One-touch fitting connection type)	Built-in silencer	Vacuum/Low- pressure specification	Different pressures	Reverse pressure	Mixed fitting sizes	Enclosure IP67*1
6.5														
9	•	•	0	0	0	0	0	0	•	A	0	A	•	
11.5			p. 132	p. 132	p. 132	p. 133	p. 133	p. 133		External pilot	Individual SUP	External pilot		•
16														•

*1 Refer to "Manifold Specifications" on pages 17 and 18 for details on IP67.

Manifold Options

■SUP/EXH blocking disk

(For the connector type manifold, Type 10)

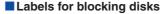
[SUP blocking disk]

Inserting an SUP blocking disk in the pressure supply passage of a manifold valve can allow for the use of 2 different pressures (high and low) in 1 manifold.

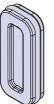
[EXH blocking disk]

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





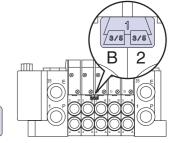
These labels can be used to indicate and confirm where on the manifold the SUP/EXH blocking disk assemblies were inserted. (3 labels of each)





blocking disk labe /1||1\ 3/5





Tube Releasing Tool p. **130** ■This tool can be used to remove tubes from ports A and B. For JSY1000 For JSY3000 For JSY5000

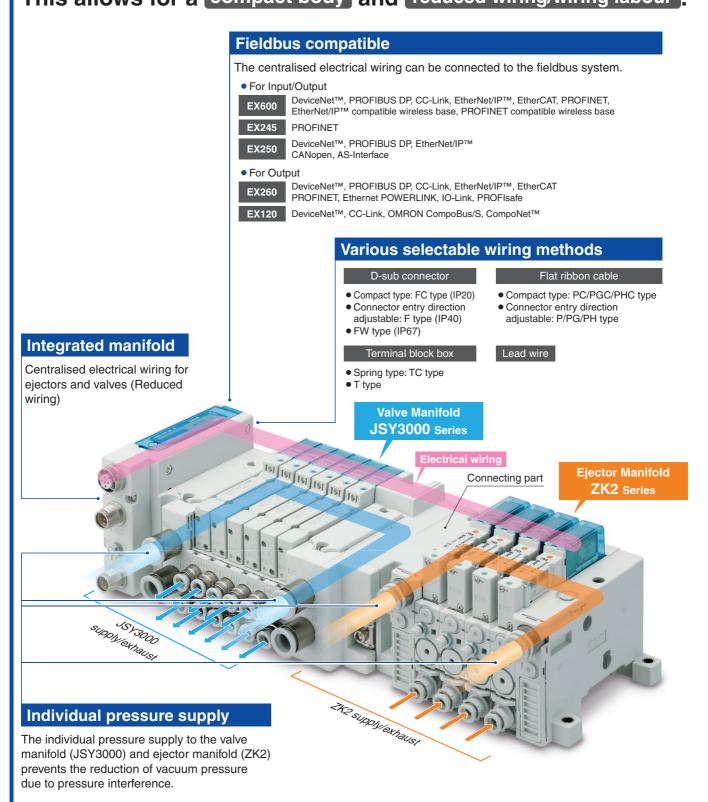




p. **133**

Vacuum Unit ZK2 Combination Manifold **D. 119**

JSY3000 valves and ZK2 ejectors can be connected to the same manifold. This allows for a compact body and reduced wiring/wiring labour.



Specifications

Max. number of outputs: 32 (Valve + Ejector)

Valve stations: 2 to 24 stations (Max. number of outputs: 30,

Depends on whether single or double)

Ejector stations: 1 to 8 stations (Max. number of outputs: 16)

Centralised wiring and piping directions

Wiring and piping for valves and ejectors can be arranged in the same direction. (Wiring method: Terminal block box and lead wire or EX250 and EX260)



CONTENTS

Optimum Actuation Size Chart of Air Cylinder ·····	p. 9
Valve Specifications	p. 13
Response Time	p. 14
Valve Weight	p. 14
Valve Construction	p. 15
Valve Replacement Parts: Pilot Valve ·····	p. 16

Plug-in Connector Connecting Base	
Manifold Specifications	p. 17
Manifold Weight	p. 17
Manifold Flow Rate Characteristics	p. 17
ZK2 Combination Manifold Weight ·····	p. 18
Connector Wiring Layout	p. 19



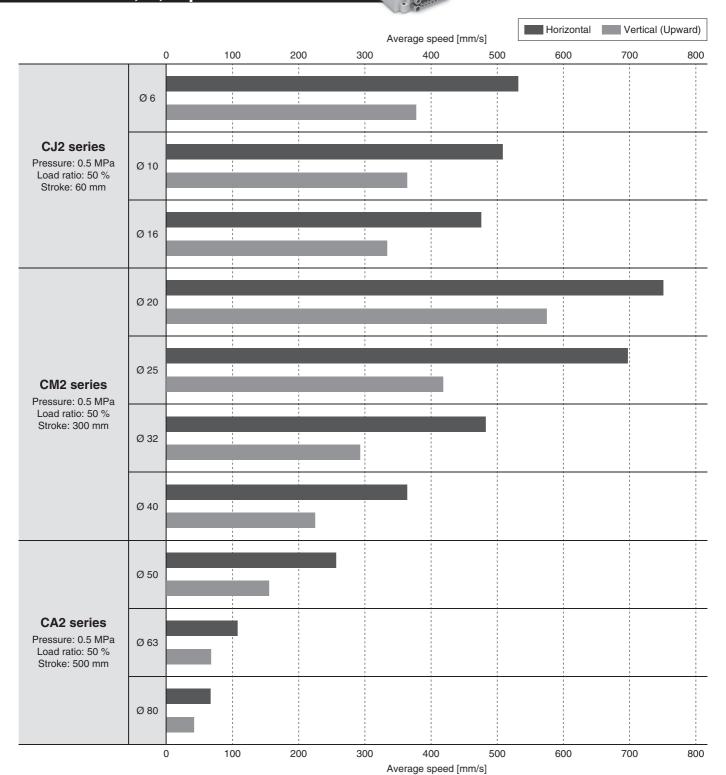
D-sub Connector, Flat Ribbon Cable [IP20/40/67]	
How to Order	p. 21
Dimensions	
D-sub Connector (IP40/Connector Entry Direction Adjustable): F	
D-sub Connector (IP67): FW ·····	
D-sub Connector (IP20/Compact Type): FC ·····	p. 29
Flat Ribbon Cable	
(IP40/Connector Entry Direction Adjustable): P/PG/PH ·······	p. 32
Flat Ribbon Cable (IP20/Compact Type): PC/PGC/PHC ·········	p. 36
Electrical Wiring Specifications: D-sub Connector Cable	p. 39
Electrical Wiring Specifications: Flat Ribbon Cable Connector	p. 40
Spring Type Terminal Block Box, Terminal Block B	ОХ
How to Order	p. 43
Dimensions	
Spring Type Terminal Block Box: TC	p. 45
Terminal Block Box: T	
Connection/Electrical Wiring Specifications	p. 53
Lead Wire	
How to Order	
Dimensions	
Electrical Wiring Specifications	p. 61
EX600 Integrated Type (For Input/Output)	
Serial Transmission System	
How to Order	
Dimensions	p. 65
EX245 Integrated Type (For Input/Output)	
Serial Transmission System	
How to Order	
Dimensions	p. 75
EX250 Integrated Type (For Input/Output)	
Serial Transmission System	
How to Order	
Dimensions	p. 79
EX260 Integrated Type (For Output)	
Serial Transmission System	
How to Order	
Dimensions	p. 87
EX120 Integrated Type (For Output)	
Serial Transmission System	
How to Order	p. 91

Dimensions p. 93

Type 10/Side Ported: Common Dimensions	
(External Pilot, Built-in Silencer/Mixed Size, Straight Port Type	oe) ····· p. 97
Manifold Exploded View [By Wiring]	p. 101
D-sub Connector/Flat Ribbon Cable	·
(IP40/Connector Entry Direction Adjustable)	····· p. 102
D-sub Connector (IP67)	····· p. 103
D-sub Connector/Flat Ribbon Cable (IP20/Compact Type) ····· p. 104
Spring Type Terminal Block Box	
Terminal Block Box	
Lead Wire ····	
EX600	
EX245 ····	
EX250 ····	
EX260	
EX120	-
Manifold Exploded View [Common Parts]	····· p. 115
Type 10: How to Increase Connector Type Manifolds	····· p. 115
For the JJ5SY1-10, JJ5SY3-10, JJ5SY5-10/	
Manifold Parts Nos.	····· p. 116
Vacuum Unit ZK2 Combination Manifold	
How to Order	
Dimensions ····	····· p. 123
ZK2 Combination Manifold Exploded View	····· p. 126
For the JJ5SY3-10-M (ZZK2□A)	
Manifold Parts Nos.	····· p. 127
ZK2□A Vacuum Ejector Manifold Exploded V	iew
How to Increase Manifold Stations	p. 128
	·
One-touch Fittings, Plug, Clip, Port Plate,	
Tube Releasing Tool	
Manifold Options	
Made to Order	
Specific Product Precautions	
Model Index	
Safety Instructions	Back cover

Optimum Actuation Size Chart of Air Cylinder

For JSY1000, A, B port: Ø 4



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



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

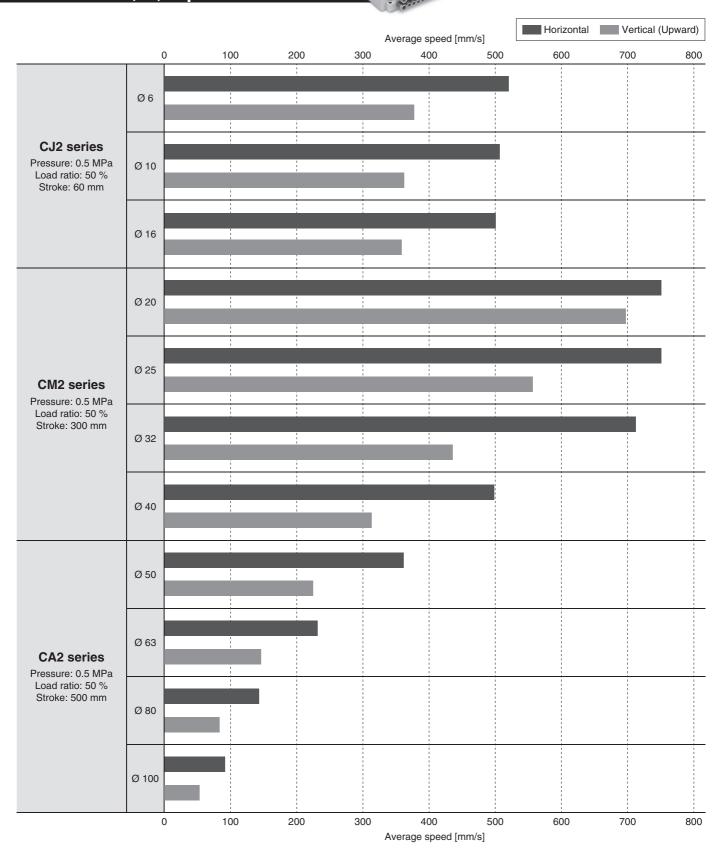
^{*} The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

^{*} 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.

Optimum Actuation Size Chart of Air Cylinder

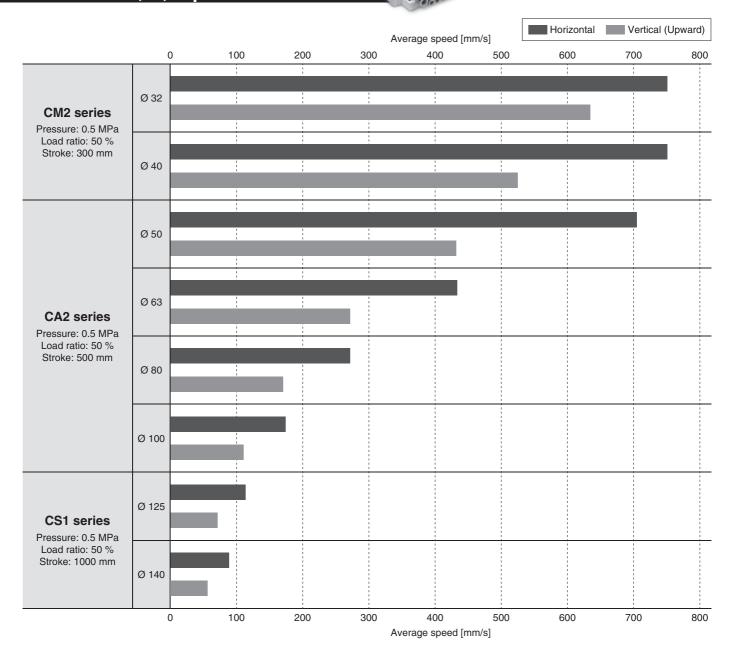
For JSY1000, A, B port: Ø 6



- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- $\ast\,$ The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/ I neoretical 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 catalogueue for details.



Optimum Actuation Size Chart of Air Cylinder For JSY3000, A, B port: Ø 8



^{*} 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.

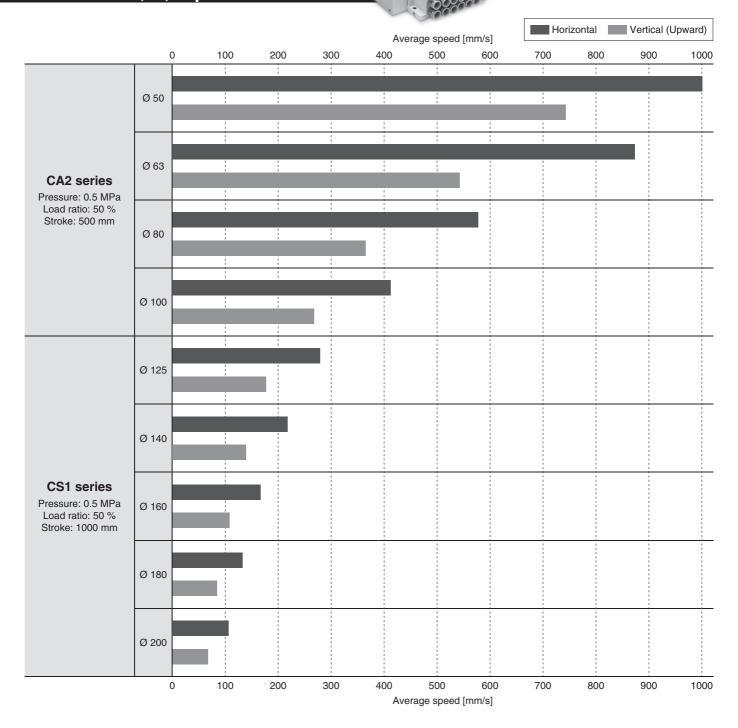
 $[\]ast\,$ Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100 %

^{*} 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 catalogueue for details.

Optimum Actuation Size Chart of Air Cylinder

For JSY5000, A, B port: Ø 12



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



^{*} 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.

 $[\]ast\,$ 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 sing	gle	0.15 to 0.7		
Internal pilot operating	2-position dou	ible	0.1 to 0.7		
pressure range [MPa]	3-position		0.2 to 0.7		
liviraj	4-position dua	I 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	r		
	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		
T not exhaust type	External pilot	(Made to Order)	mulviduai exhaust		
Lubrication			Not required		
Mounting orientation*2			Unrestricted		
Impact/Vibration resistance	e*2 [m/s ²]		150/30		
Enclosure			JSY1000: IP40 JSY3000/5000: IP67 (Based on IEC 60529)		
Coil rated voltage [DC]			24 V		
Allowable voltage fluctuati	on [V]		±10 % of the rated voltage		
	Standard	JSY3000/5000	0.4		
Power consumption [W]	With a sure	JSY1000	0.2*3 [Inrush 0.5, Holding 0.2]		
Power consumption [w]	With power- saving circuit	JSY3000/5000 (Made to Order)	0.1*4 [Inrush 0.4, Holding 0.1]		
Surge voltage suppressor			Diode (Varistor for non-polar type)		
Indicator light			LED		

^{*1} Not available for the JSY1000 series



^{*2} Impact resistance: No malfunction occurred when tested in the axial direction and at a right angle to the main valve and armature in both an energised and a de-energised state, once in each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz in the axial direction and at a right angle to the main valve and armature in both an energised and a de-energised state, once in each condition. (Value in the initial state)

Refer to page 139 for details on securing the DIN rail mounting type manifold.

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

^{*4} For details, refer to page 137.

Valve Specifications JSY1000/3000/5000 Series

Response Time

			Response time [ms]*1			
Series	Model	Type of actuation	With light/surge voltage suppressor			
			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		
3513000	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		
3515000	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 $^{\circ}$ C, at rated voltage)

Valve Weight

JSY1000 Series

Valve model	Т	Weight [g]	
	2-position	Single	24
	2-position	Double	27
JSY1□00	3-position	Closed centre	
JS1 1 1 0 0		Exhaust centre	30
		Pressure centre	
	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 centre	110	
J515_00		Exhaust centre		
		Pressure centre		
	4-position	Dual 3-port valve	96	

JSY3000 Series

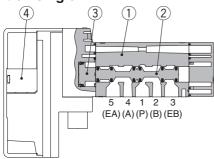
Valve model	Т	Weight [g]	
	O position	Single	54
	2-position	Double	63
JSY3□00	3-position	Closed centre	
J513L00		Exhaust centre	67
		Pressure centre	
	4-position Dual 3-port valve		63

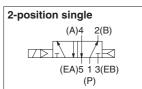


JSY1000/3000/5000 Series **Valve Construction**

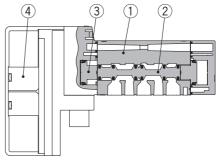
Rubber Seal

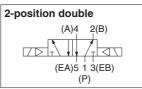
2-position single



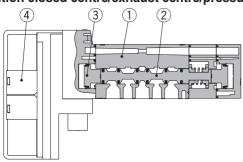


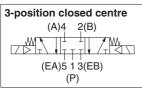
2-position double

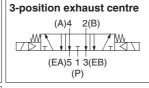


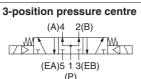


3-position closed centre/exhaust centre/pressure centre

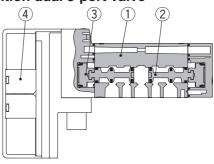


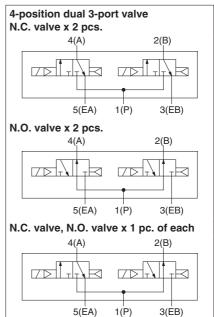






4-position dual 3-port valve





5(EA)

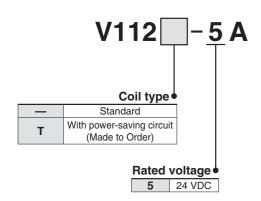
1(P)

Component Parts

00111	ponont i arto					
No.	Description	Material				
1	Body	Aluminium die-casted				
2	Spool valve	Aluminium/HNBR (4-position solenoid valve: Resin/HNBR				
3	Piston	Resin				
4	Pilot valve assembly	_				

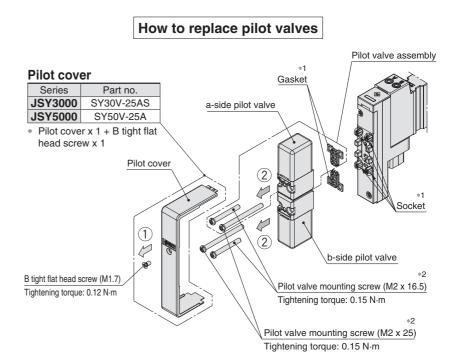
JSY3000/5000 Series Valve Replacement Parts: Pilot Valve

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			FW type*1	FC type*2	P type	PG type	PH type	PC type*2	PGC type*2	PHC type*2	
Manifold type Plug-in connecting base												
SUP/EX	XH port type		Common SUP/EXH (Common for the 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			
Annlia	able connected		D-sub connector conforming to	Dedicated connector	D-sub connector conforming to				able connecto 3503 (Refer to	-		
Applicable connector		MIL-C-24308 (Refer to page 39.)	(Refer to page 39.)	er to MIL-C-24308	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				Ø 8	Ø 8 One-touch fitting					
	1(P), 3/5(E) port	JSY3000	Ø 10 One-touch fitting									
Port	port	JSY5000		Ø 12 One-touch fitting								
size	4(A) 0(B)	JSY1000			Ø 2 One-touch fitting, Ø 4 One-touch fitting, Ø 6 One-touch fitting							
	4(A), 2(B) port	JSY3000		Ø 6 One-touch fitting, Ø 8 One-touch fitting								
	port	JSY5000			Ø	10 One-touch	fitting, Ø 12 (One-touch fitt	ing			
	JSY1000			_	IP20					IP20		
	Enclosure (Based on IEC 60529)	JSY3000	IP40	IP67	20		IP40			11 20		
				11 07	_			_				

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

Manifold Weight

											Unit: g	
							② Wiring					
N/	lodel	Per station	D-sub connector				Flat ribbon cable					
IVI	louei	The station	F type	FW type*2	FC type*3	P type	PG type	PH type	PC type*3	PGC type*3	PHC type*3	
JSY1000	for Ø 4	21.3	308	_	233	306	304	298	233	231	225	
J511000	for Ø 6	26.9	319	_	244	317	315	309	244	242	236	
JSY3000) for Ø 8	42.7	332	330	287	330	328	322	257	255	249	
JSY5000) for Ø 12	104	509	507	_	507	505	499	_	_	_	

Formula for manifold weight*1

 $W = 1 \times n1 + 2$ (n1: stations)

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

Manifold Flow Rate Characteristics

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

 $[\]ast$ Calculation of effective area S and sonic conductance C: S = 5.0 x C

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



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

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

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



	Terminal	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									
			Cor	mmon SUP/EXH (Co	ommon for the 3/5 p	ort)				
	2 to 20 stations			2 to 24	stations			2 to 16 stations		
	Positive common, Negative common Negative common Positive common, Negative common							common		
		1 OSITIVE COMMON,	rvegative common	Ø 8 One-to	Negative common ouch fitting	1 0311146	common, regative	COMMINION		
					ouch fitting					
					ouch fitting					
			Ø 2 One-tou	ch fitting, Ø 4 One-to		e-touch fitting				
				6 One-touch fitting,	<u> </u>					
			Ø 1	10 One-touch fitting,	Ø 12 One-touch fit	ting				
	IP40									
·		IP67		IP67 (I/O unit: partially IP40)	IP65	IP67	IP67 D-sub communication connector: IP40	IP20		

- 1	۱	:4.	-
ш.	m	111	(1

									3	
② Wiring										
Terminal block box Lead wire					Serial wiring					
T type	TC type	L type (0.6 m)	L type (1.5 m)	L type (3 m)	S6□ type (EX600)*4	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 for the internal pilot specification, the max. fitting size, and the manifold only. The valve weight is not included. To obtain the weight with valves attached, add the valve weight given on page 14 for the appropriate number of stations.
- *2 The FW type is not available for the JSY1000.
- *3 The FC, PC, PGC, and PHC types are not available for the JSY5000.
- *4 The serial unit weight is included, but the I/O unit weight is not included. Add the weight of the I/O unit for calculation.

ZK2 Combination Manifold Weight

Single Unit

Single unit model	Weight [g]
ZK2 (1 station for manifold, Without pressure sensor/switch)	99

Pressure Sensor/Pressure Switch for Vacuum

Pressure sensor/Pressure switch for vacuum model	Weight [g]
ZK2-PS□-A (Excludes the cable portion weight)	5
ZK2-ZS□-A (Excludes the lead wire with connector weight)	14

Formula for ZK2 combination manifold weight

 $Wz = 1 \times n_1 + 2 + 3 \times n_2 \times n$

	•
JSY3000 P, E port entry	3
D side	158
U side	275
B side	292

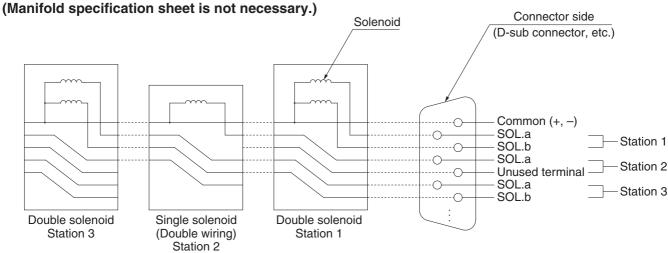
The weight "Wz" is the value for the internal pilot specification, the max. fitting size, and the manifold only. To obtain the weight with valves and ejectors mounted, add the valve weight and the weight of the ejector, pressure sensor, and pressure switch for vacuum above, respectively, for the appropriate number of stations.

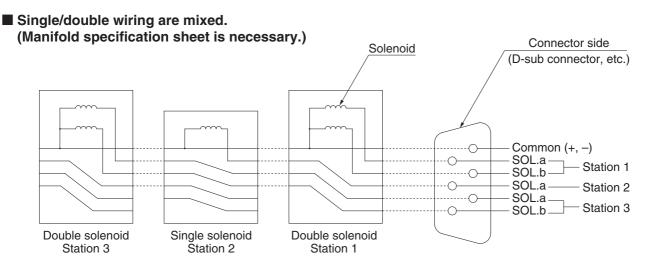


Connector Wiring Layout

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

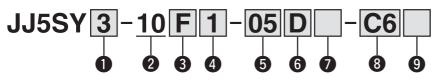
D-sub Connector Flat Ribbon Cable

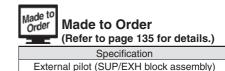
Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



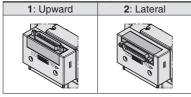


Series

1	JSY1000
3	JSY3000
5	JSY5000

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 103 and 104) separately.

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

_	Internal pilot
S	Internal pilot,
3	Built-in silencer

- The 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

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

		•				
Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø2	•	_	_	1
C4	Ħ	Ø 4	•	_	_	
C6		Ø6	•	•	_	
C8	Straight	Ø8	_	•	_	
C10	Str	Ø 10	_	_	•	
C12		Ø 12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	ONTE
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12		

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

9 Mounting and Option

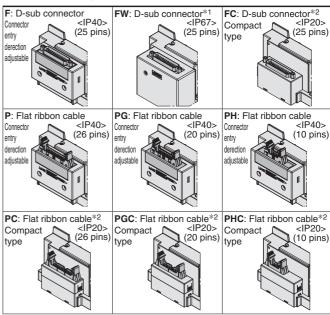
Symbol	Mounting
_	Direct mounting
D□	DIN rail mounting

DIN Rail Option

DIN rail mounting (With DIN rail)			
DIN rail mounting (Without DIN rail) For 3 stations Specify a length longer			
			÷
For 24 stations rail.			
	DIN rail m For 3 stations :		

- * 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 139 for details on securing the 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)

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

24	24 314110113	availabic)		
PG/PGC: Flat ribbon cable (20 pins				
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)		

D/DC: Elat ribbon cable (26 pine)

F/F(. Flat	ribbori cable (26 piris)
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
12	12 stations	-
02	2 stations	Specified layout*2
:	:	(Up to 24 solenoids
24	24 stations	available)

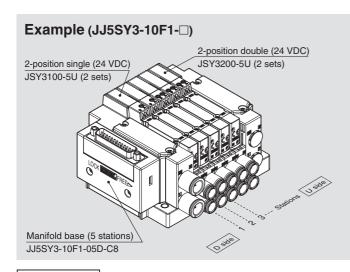
PH/PHC: Flat ribbon cable (10 pins)

Stations	Note
2 stations	
:	Double wiring*1
4 stations	
2 stations	Specified layout*2
:	Up to 8
8 stations	solenoids available)
	2 stations : 4 stations 2 stations :

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The 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 ··· 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.
- For the valve arrangement, the valve closest to the D side is considered the
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification

With power-saving circuit

Internal Pilot

How to Order Valves (With mounting screw)

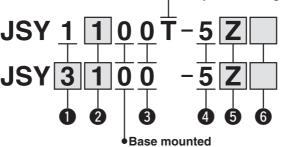
Refer to page 13 for valve specifications.

Made to Order (Refer to page 135 for details.) Specification

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

JSY1000 Series

JSY3000/5000 Series



Series JSY1000

JSY3000

JSY5000

Pilot valve exhaust method Pilot valve individual exhaust

4	Rated	voltage

3

5

4 Rat	ted voltage	
5	24 VDC	

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.

For the JSY1000 series, only the power-saving circuit specification is available.

Type of actuation

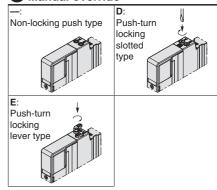
I	2-position	Single						
2	2-008111011	Double						
3		Closed centre						
4	3-position	Exhaust centre						
5		Pressure centre						
Α	4	N.C./N.C.						
В	4-position dual 3-port	N.O./N.O.						
С	duai 5-poit	N.C./N.O.						

Light/surge voltage suppressor and common specification

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

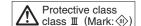
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

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 116 for base gasket and mounting screw part numbers.





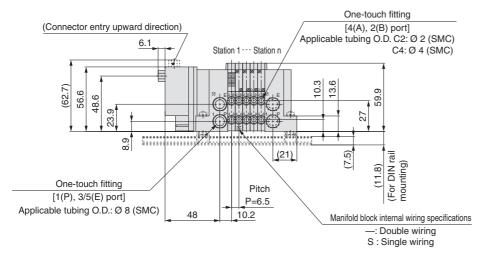
Type 10/Side Ported (Applicable to 0 2 and 0 4 fittings)

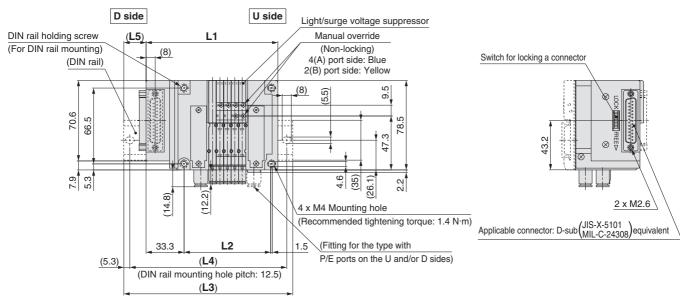
D-sub Connector (IP40/Connector Entry Direction Adjustable)

Dimensions: **JSY1000** Series

JJ5SY1-10 F_2^1 -Stations $\stackrel{\text{U}}{\text{B}}$ - $\stackrel{\text{C2}}{\text{C4}}$ (D)







- * These figures show the "JJ5SY1-10F2-05D-C4."
- Refer to page 97 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 100 for dimensions.

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



Puesin Connector Connecting Base JSY1000/3000/5000 Series

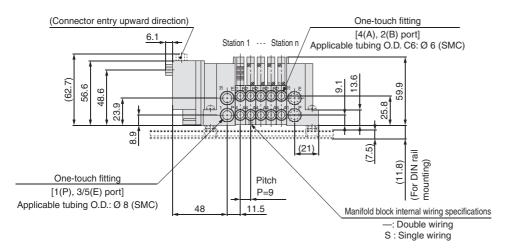
Type 10/Side Ported (Applicable to Ø 6 fittings)

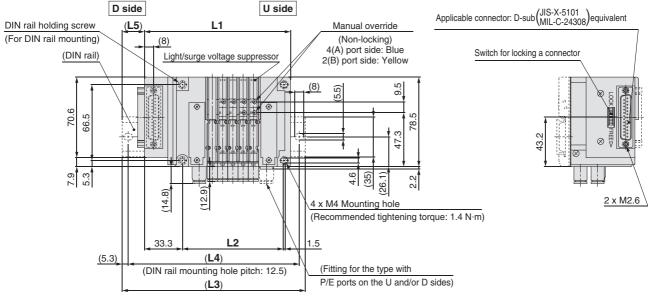
D-sub Connector (IP40/Connector Entry Direction Adjustable)

Dimensions: JSY1000 Series

JJ5SY1-10F₂¹-Stations P-C6(D)







- * These figures show the "JJ5SY1-10F2-05D-C6."
- Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

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

L	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



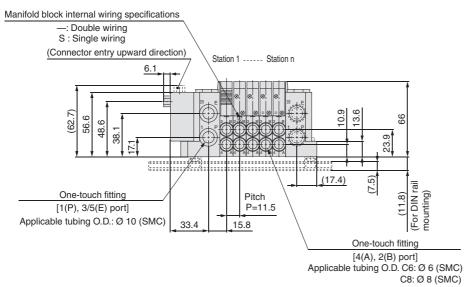
Type 10/Side Ported

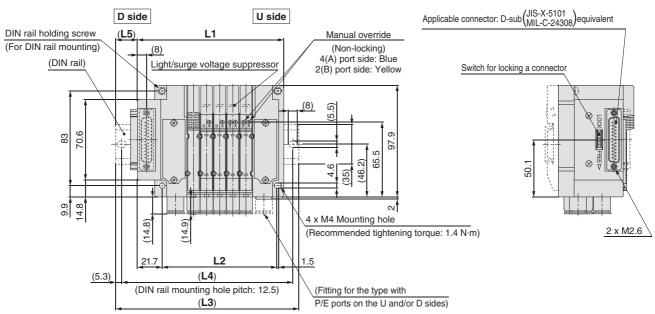
Dimensions: JSY3000 Series

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

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







- * These figures show the "JJ5SY3-10F2-05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

L. Dill	CHSIOI	13													i. Otations
L	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	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

25



Puesin Connector Connecting Base JSY1000/3000/5000 Series

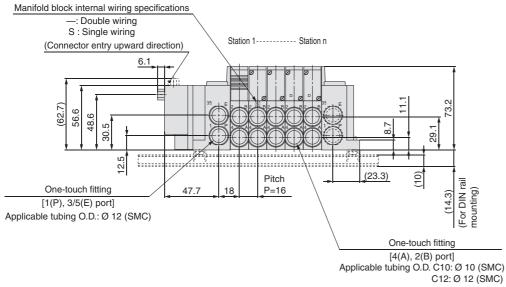
Type 10/Side Ported

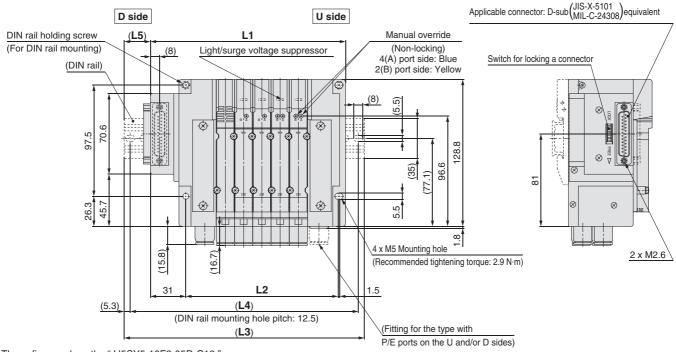
Dimensions: **JSY5000** Series

D-sub Connector (IP40/Connector Entry Direction Adjustable

JJ5SY5-10 F_2^1 -Stations $_{\text{B}}^{\text{U}}$ - $_{\text{C12}}^{\text{C10}}$ (D)







- * These figures show the "JJ5SY5-10F2-05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions	n: Stations
---------------	-------------

	0110101													•	
	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

	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



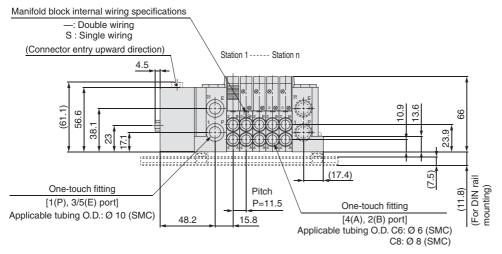
Type 10/Side Ported

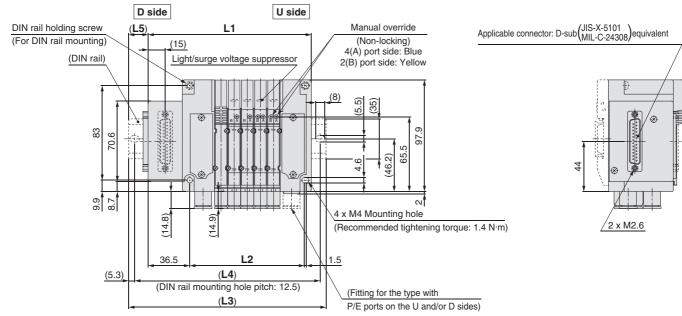
Dimensions: JSY3000 Series

D-sub Connector (IP67)

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







- * These figures show the "JJ5SY3-10FW2-05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

		0110101													•	
ĺ) J	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
Ì	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
Ì	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

	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



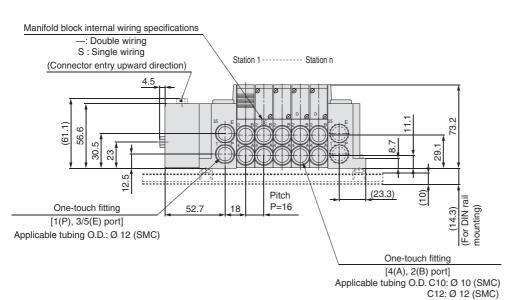
Puesin Connector Connecting Base JSY1000/3000/5000 Series

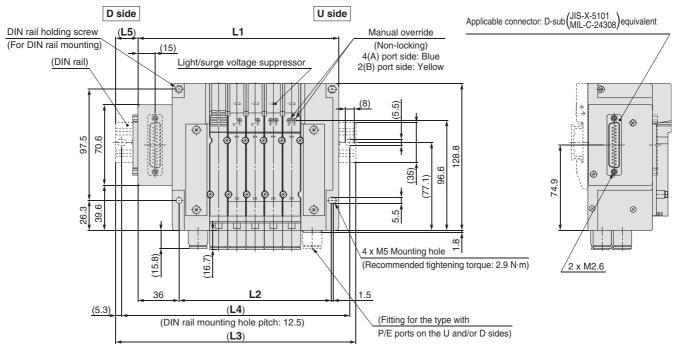
Type 10/Side Ported

Dimensions: **JSY5000** Series

D-sub Connector (IP67)

JJ5SY5-10FW $_2^1$ -Stations $_{B}^{U}$ - $_{C12}^{C10}$ (D)





- * These figures show the "JJ5SY5-10FW2-05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

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

L	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



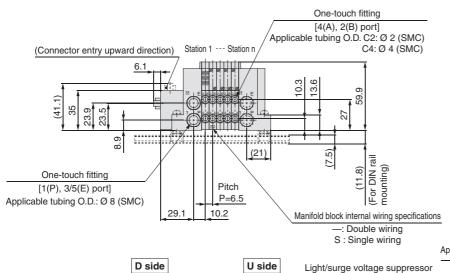
Dimensions: JSY1000 Series

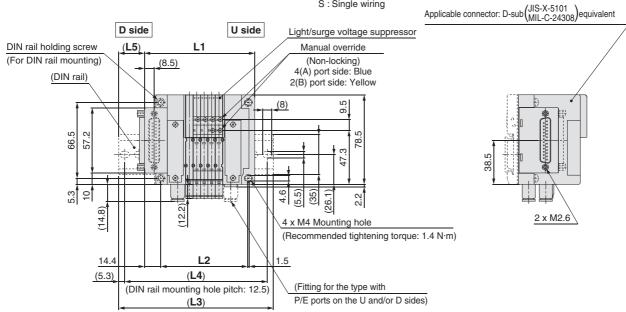
Type 10/Side Ported (Applicable to 0 2 and 0 4 fittings)

D-sub Connector (IP20/Compact Type)

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







- * These figures show the "JJ5SY1-10FC2-05D-C4."
- * Refer to page 97 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 100 for dimensions.

L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	77.1	83.6	90.1	96.6	103.1	109.6	116.1	122.6	129.1	135.6	142.1	148.6	155.1	161.6	168.1
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	110.5	123	123	135.5	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198
L4	100	112.5	112.5	125	125	137.5	137.5	150	150	162.5	162.5	175	175	187.5	187.5
L5	20	23	19.5	22.5	19.5	22.5	19	22	19	22	18.5	21.5	18.5	21.5	18

	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



Puesin Connector Connecting Base JSY1000/3000/5000 Series

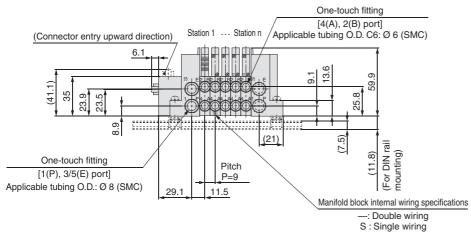
Dimensions: **JSY1000** Series

Type 10/Side Ported (Applicable to Ø 6 fittings)

D-sub Connector (IP20/Compact Type)

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





Applicable connector: D-sub $\binom{\text{JIS-X-5101}}{\text{MIL-C-24308}}$ equivalent D side U side Light/surge voltage suppressor DIN rail holding screw L1 Manual override (For DIN rail mounting) (Non-locking) (8.5) 4(A) port side: Blue 2(B) port side: Yellow (DIN rail) 9.5 66.5 57 78 (14.8) 2 x M2.6 4 x M4 Mounting hole (Recommended tightening torque: 1.4 N·m) 14.4 (5.3)(L4)(Fitting for the type with (DIN rail mounting hole pitch: 12.5)

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

- * These figures show the "JJ5SY1-10FC2-05D-C6."
- Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L: Dimensions n: Stations

L	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	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

(**L3**)

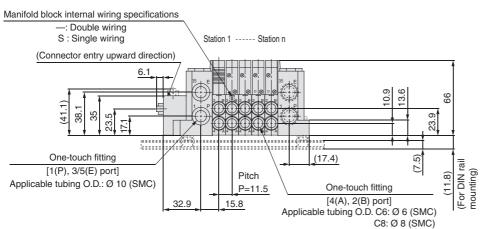


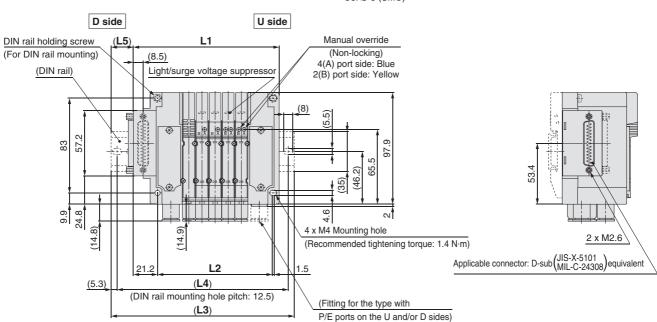
Type 10/Side Ported

Dimensions: JSY3000 Series D-sub Connector (IP20/Compact Type)

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







- * These figures show the "JJ5SY3-10FC2-05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

		0110101														
ĺ) J	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
Ì	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
Ì	L4	112.5	125	137.5	150	162.5	175	187.5	200	212.5	225	237.5	250	250	262.5	275
	L5	18	18.5	19	19.5	20	20.5	21	21.5	22	22.5	23	23.5	17.5	18	18.5

L	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

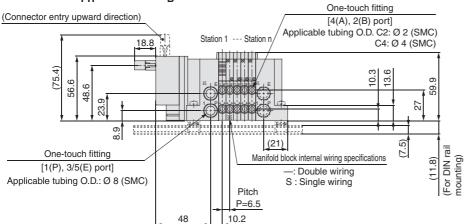


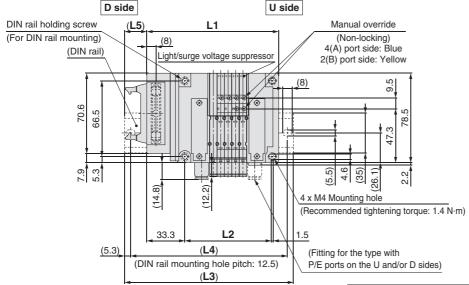
Puesin Connector Connecting Base JSY1000/3000/5000 Series

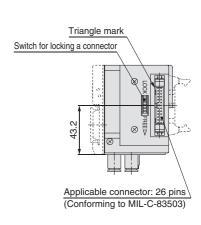
Type 10/Side Ported (Applicable to Ø 2 and Ø 4 fittings) Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

Dimensions: JSY1000 Series

JJ5SY1-10 $\stackrel{PG}{\stackrel{1}{\stackrel{}{\stackrel{}{\stackrel{}{\stackrel{}{\stackrel{}{\stackrel{}{\stackrel{}{\stackrel{}}{\stackrel{}{\stackrel{}{\stackrel{}}{\stackrel{}{\stackrel{}}{\stackrel{}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}{\stackrel{}}}{\stackrel{}}}{\stackrel{}}}{\stackrel{}}{\stackrel{}}}{\stackrel{}}{\stackrel{}}{\stackrel{}}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel$







- * These figures show the "JJ5SY1-10P2-05D-C4."
- Refer to page 97 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 100 for dimensions.

10PG (20 pins)	10Ph (10 pins)
Triangle mark	Triangle mark
LOCK MARKET NO.	OOX MINISTER S
Applicable connector: 20 pins MIL type (Conforming to MIL-C-83503)	Applicable connector: 10 pins MIL type (Conforming to MIL-C-83503)

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

L	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

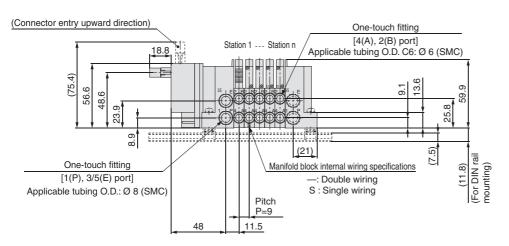


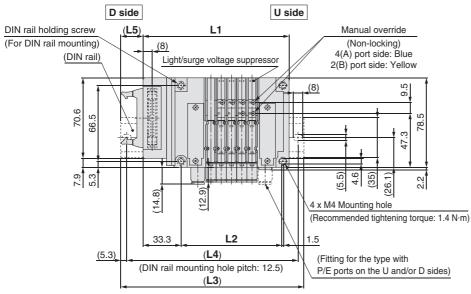
Type 10/Side Ported (Applicable to Ø 6 fittings)
Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

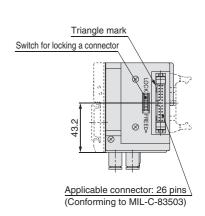
Dimensions: JSY1000 Series

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









- * These figures show the "JJ5SY1-10P2-05D-C6."
- Refer to page 97 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 100 for dimensions.

10PG (20 pins)	10PH (10 pins)
Triangle mark	Triangle mark
S S S S S S S S S S S S S S S S S S S	
Applicable connector: 20 pins MIL type (Conforming to MIL-C-83503)	Applicable connector: 10 pins MIL type (Conforming to MIL-C-83503)

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 101 110 119 128 137 146 155 164 173 182 191 200 209 218 227 236 245 254 263 272 281 290 299

L	_	5	7	ז	0	-	U	5	10		14	2	17	13	10	17	10	19	20	21	22	23	27
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

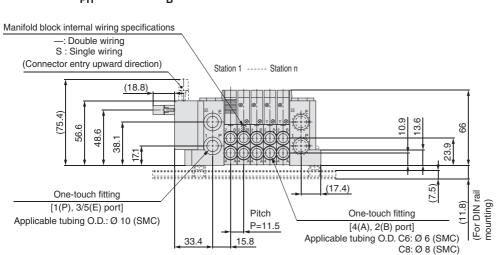
Puesin Connector Connecting Base JSY1000/3000/5000 Series

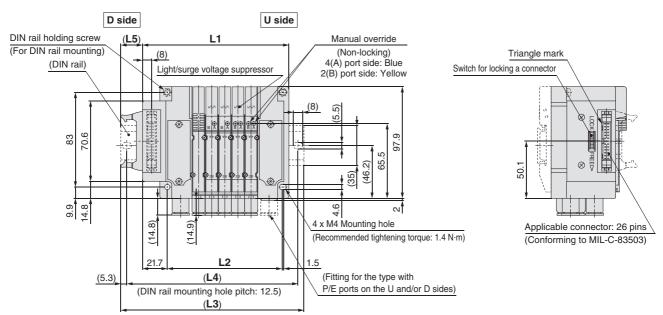
Type 10/Side Ported

Dimensions: JSY3000 Series

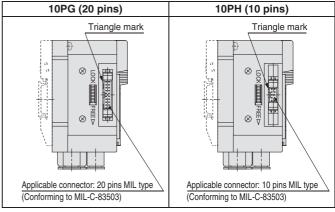
Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

JJ5SY3-10 $\stackrel{P}{\stackrel{G}{\stackrel{1}{\stackrel{1}{\stackrel{}}{\stackrel{}}{\stackrel{}}}}}$ - Stations $\stackrel{U}{\stackrel{D}{\stackrel{}{\stackrel{}}{\stackrel{}}{\stackrel{}}}}$ - $\stackrel{C6}{\stackrel{C6}{\stackrel{}{\stackrel{}}{\stackrel{}}{\stackrel{}}{\stackrel{}}}}$ (D)





- * These figures show the "JJ5SY3-10P2-05D-C8."
- Refer to page 98 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.



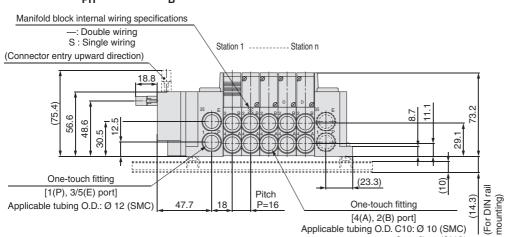
L: Dir	nens	ions																				n: St	tations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	93.8	105.3	116.8	128.3	139.8	151.3	162.8	174.3	185.8	197.3	208.8	220.3	231.8	243.3	254.8	266.3	277.8	289.3	300.8	312.3	323.8	335.3	346.8
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6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

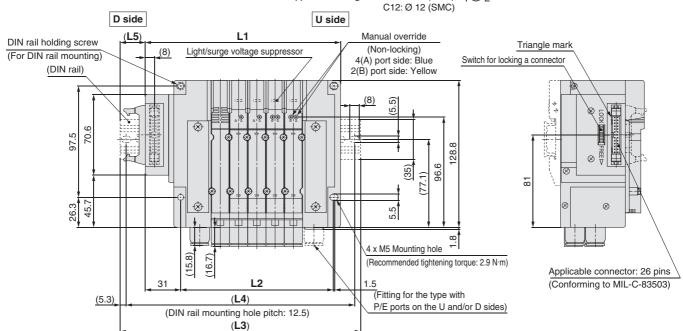
Type 10/Side Ported

Dimensions: JSY5000 Series

Flat Ribbon Cable (IP40/Connector Entry Direction Adjustable)

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





- * These figures show the "JJ5SY5-10P2-05D-C12."
- Refer to page 99 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.

10PG (20 pins)	10PH (10 pins)
Triangle mark	Triangle mark
Applicable connector: 20 pins MIL type	Applicable connector: 10 pins MIL type
(Conforming to MIL-C-83503)	(Conforming to MIL-C-83503)

L: Dimensions

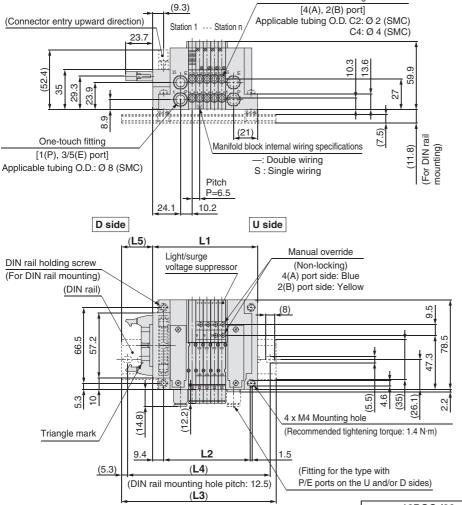
L. DII	116112	10115																				11. 0	lalions
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	123	139	155	171	187	203	219	235	251	267	283	299	315	331	347	363	379	395	411	427	443	459	475
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5	325.5	341.5	357.5	373.5	389.5	405.5	421.5	437.5
L3	160.5	173	185.5	210.5	223	235.5	260.5	273	285.5	298	323	335.5	348	360.5	385.5	398	410.5	435.5	448	460.5	473	498	510.5
L4	150	162.5	175	200	212.5	225	250	262.5	275	287.5	312.5	325	337.5	350	375	387.5	400	425	437.5	450	462.5	487.5	500
L5	22	20	18.5	23	21	19.5	24	22	20.5	18.5	23	21.5	19.5	18	22.5	20.5	19	23.5	21.5	20	18	22.5	21

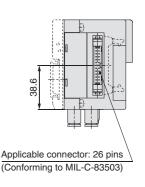
Type 10/Side Ported (Applicable to Ø 2 and Ø 4 fittings) Flat Ribbon Cable (IP20/Compact Type)

Dimensions: JSY1000 Series









- * These figures show the "JJ5SY1-10PC2-05D-C4."
- * Refer to page 97 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 100 for dimensions.

ole connector: 10 pins ming to MIL-C-83503)
Triangle mark

· Dimensions

L. Dilli	Differisions												i. Stations		
L	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
L5	25	28	24.5	27.5	24.5	27.5	24	27	24	27	23.5	26.5	23.5	26.5	23

L	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

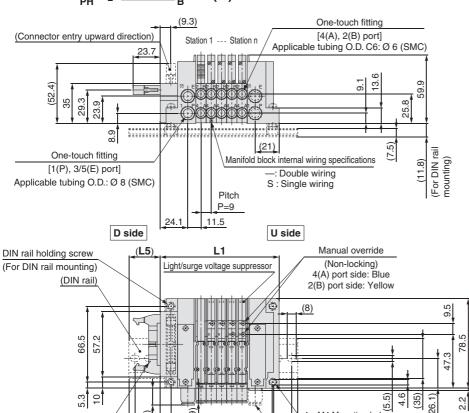


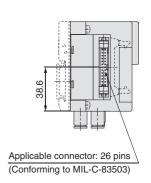
Type 10/Side Ported (Applicable to Ø 6 fittings)

Dimensions: JSY1000 Series

Flat Ribbon Cable (IP20/Compact Type)

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





* These figures show the "JJ5SY1-10PC2-05D-C6."

(5.3)

Triangle mark

* Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.

(14.8)

9.4

(**L4**)

(DIN rail mounting hole pitch: 12.5)

(L3)

- * 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 100 for dimensions.

10PGC (20 pins)	10PHC (10 pins)
Applicable connector: 20 pins (Conforming to MIL-C-83503) Triangle mark	Applicable connector: 10 pins (Conforming to MIL-C-83503) Triangle mark

L: Dimensions n: Stations

4 x M4 Mounting hole

(Recommended tightening torque: 1.4 N·m)

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

(Fitting for the type with

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

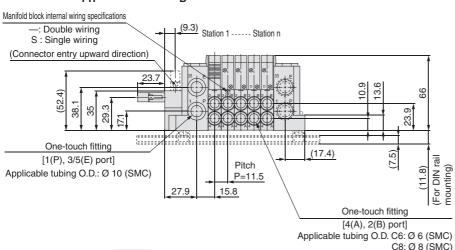


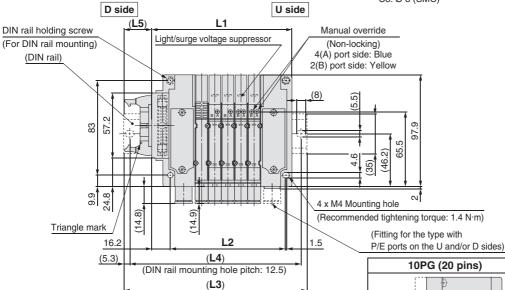
Type 10/Side Ported

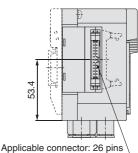
Dimensions: JSY3000 Series

Flat Ribbon Cable (IP20/Compact Type)

JJ5SY3-10 PG C2-Stations D-C8 (D)







Applicable connector: 26 pins (Conforming to MIL-C-83503)

- * These figures show the "JJ5SY3-10PC2-05D-C8."
- Refer to page 98 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.

Applicable connector: 20 pins (Conforming to MIL-C-83503) Triangle mark 10PH (10 pins) Applicable connector: 10 pins (Conforming to MIL-C-83503) Triangle mark n: Stations

L: Dimensions

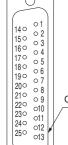
L. DIII	L. Difficiations												i. Stations		
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	88.3	99.8	111.3	122.8	134.3	145.8	157.3	168.8	180.3	191.8	203.3	214.8	226.3	237.8	249.3
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	123	135.5	148	160.5	173	185.5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

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



Electrical Wiring Specifications

D-sub connector



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

Connector terminal no.

Lead wire no. Polarity SOL. a (-)(+)Station 1 SOL. b 14 (-)(+)SOL. a_O 2 (-)(+)Station 2 SOL. b ○ 15 (-)(+)SOL. a_o (-)(+)Station 3 ____ SOL. b ○ 16 (-)(+)SOL. a_O 4 (-)(+)Station 4 SOL. b ○ 17 (-)(+) SOL. a 5 (-)(+)Station 5 SOL. b ○ 18 (+)SOL. a 6 (-)(+)Station 6 SOL. b ○ 19 (-)(+)SOL. a 7 (-)(+)SOL. b ○ 20 Station 7 (-)(+)SOL. a 8 (-)(+)Station 8 SOL. b ○ 21 (+) SOL. a 9 (-)(+)Station 9 SOL. b 22 (-)(+)SOL. a ○ 10 (-)(+) Station 10 SOL. b_○ 23 (-)(+)SOL. a ○ 11 (-)(+)SOL. b ○ 24 Station 11 (-)(+)SOL. a ○ 12 (+)(-)Station 12-SOL. b_○ 25 (-)(+) COM. ○ 13 (+) (-)Positive Negative common common

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

Wire colour table by terminal number of D-sub connector cable assembly

Terminal	Lead wire	Dot
no.	colour	marking
1	Black	None
2	Brown	None
3	Red	None
4	Orange	None
5	Yellow	None
6	Pink	None
7	Blue	None
8	Purple	White
9	Grey	Black
10	White	Black
11	White	Red
12	Yellow	Red
13	Orange	Red
14	Yellow	Black
15	Pink	Black
16	Yellow	White
17	White	None
18	Grey	None
19	Orange	Black
20	Red	White
21	Brown	White
22	Pink	Red
23	Grey	Red
24	Black	White
25	White	None

Connector madeinconformity with DIN47100

Connector Cable [IP20/IP40]

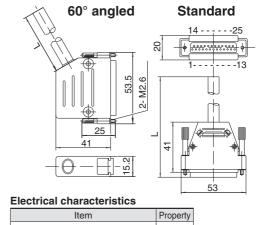
GVVZS3000-21A-□

D-sub connector cable

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

Shielded cable

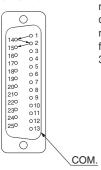
Cable length (L)	Assembly part no.	Note
1 m	GVVZS3000-21A-1S	Shieled
3 m	GVVZS3000-21A-2S	Shieled
5 m	GVVZS3000-21A-3S	Shieled
8 m	GVVZS3000-21A-4S	Shieled
20 m	GVVZS3000-21A-5S	Mode to order



Electrical characteristics								
Item	Property							
Conductor resistance Ω/km, 20 °C	Max. 57							
Voltage limit V, 5 minute, AC	1500							
Insulation resistance MΩ/km, 20 °C	20							

Specified Layout

(25 pins)

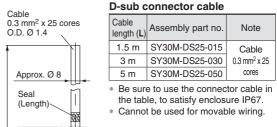


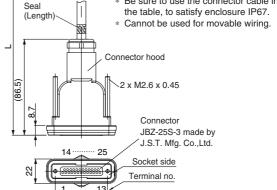
Mixed wiring of single and double wiring can be specified on the manifold specification sheet. The maximum number of stations is determined according to the number of solenoids. The total number of solenoids should be 24 or less. 1 solenoid is required for 2-position single, and 2 solenoids for 2-position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

Connector Cable [IP67]

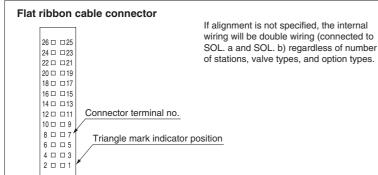
SY30M-DS25-030 [IP67] 050

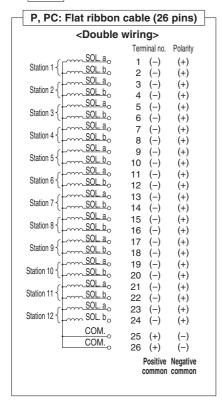
47.04





Electrical Wiring Specifications





PG, PGC: Flat ribbon cable (20 pins) <Double wiring> Terminal no. Polarity SOL. a (+)Station 1 SOL. b 2 (+)SOL. a 3 (-)(+)Station 2 SOL.b 4 5 (-)(+)SOL. a (-) (+)Station 3 SOL.bo 6 7 8 (-)(+)SOL. a (+)Station 4 SOL.b (+)SOL. a 9 (+)Station 5 SOL.bo 10 (-)(+)SOL. a 11 (-)(+)Station 6 SOL.b 12 (+)SOL. ao 13 (-)(+)Station 7 SOL. b 14 (-)(+)SOL. ao 15 (-)(+)Station 8 SOL.b 16 (+)SOL. a 17 (+)Station 9 SOL. b 18 (-)(+)COM. 19 (+) (-)COM. 20 (+) (-) Positive Negative common common

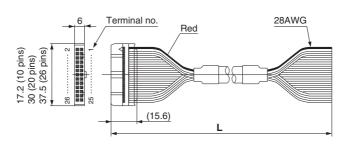
PH, PHC: Flat ribbon	cable (10 pins)	H
<double th="" v<=""><th>viring></th><th></th></double>	viring>	
Station 1 {	Terminal no. Polarity 1 (-) (+) 2 (-) (+) 3 (-) (+) 4 (-) (+) 5 (-) (+) 6 (-) (+) 7 (-) (+) 8 (-) (+) 9 (+) (-) 10 (+) (-) Positive Negative common	

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



Flat Ribbon Cable Connector

AXT100-FC 20 - 2 26 3



Flat ribbon cable connector

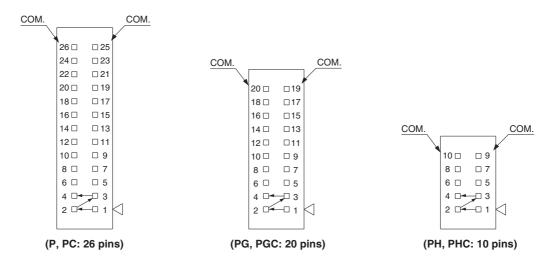
Cable	Assembly part no.				
length (L)	26 pins	10 pins			
1.5 m	AXT100-FC26-1	AXT100-FC20-1	AXT100-FC10-1		
3 m	AXT100-FC26-2	AXT100-FC20-2	AXT100-FC10-2		
5 m	AXT100-FC26-3	AXT100-FC20-3	AXT100-FC10-3		

- * 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 Manufacturer's 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



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 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 the 2-position single, and 2 solenoids for the 2-position double, 3-position, and 4-position.





Plug-in Connector Connecting Base

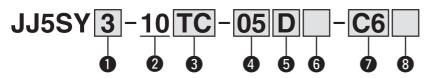
Spring Type Terminal Block Box Terminal Block Box

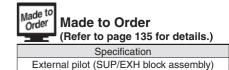
Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds





1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type	е
10	Side ported

3 Wiring

TC	Spring type terminal block box
Т	Terminal block box

4 Valve stations

C : Spring type terminal block box	T: Terminal block box
---	-----------------------

Symbol	Stations	Note	Syı
02	2 stations		0
	:	Double wiring*1	
16	16 stations		1
02	2 stations	Specified layout*2	0
	:	(Up to 32 solenoids	
24	24 stations	available)	2

Symbol	Stations	Note		
02	2 stations			
	:	Double wiring*1		
10	10 stations			
02	2 stations	Specified layout*2		
	:	(Up to 20 solenoids		
20	20 stations	available)		

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations.
 - The 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

_	Internal pilot
S	Internal pilot, Built-in silencer

- The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø2	•	_	_	~
C4		Ø 4	•	_	_	
C6	Ħ	Ø6	•	•	_	
C8	Straight	Ø8	_	•	_	
C10	ŝ	Ø 10	_	_	•	
C12		Ø 12	_	_	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Olding
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12		

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

8 Mounting and Option

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

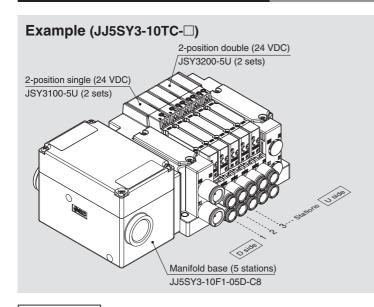
- * Enter the number of stations inside \square when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 139 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

_	DIN ra	DIN rail mounting (With DIN rail)										
0	DIN rail	mounting (Without DIN rail)										
3	For 3 stations	Consider a law orth law or a thou										
:	:	Specify a length longer than that of the standard rail.										
24	For 24 stations	liiai oi iile siailualu lall.										



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.)
- $_{_{\rm T}}^{*}$ 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.
- · For the valve arrangement, the valve closest to the D side is considered the 1st station.
- · Under the manifold part number, state the valves to be mounted in order starting with the 1 st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

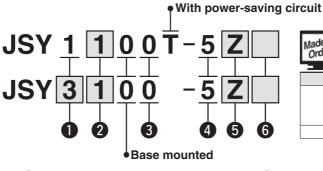
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

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	t
--------------------------------	---

4 Rated voltage

natet	i voitage		
5		24 VDC	

2 Type of actuation

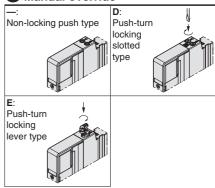
1	2-position	Single					
2	2-position	Double					
3		Closed centre					
4	3-position	Exhaust centre					
5		Pressure centre					
Α	4	N.C./N.C.					
B	4-position dual 3-port	N.O./N.O.					
	duai 5-port	N.C./N.O.					

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 the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

6 Manual override



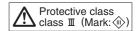
- Push-turn locking lever type "E" is not available for the JSY1000.
- * When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 116 for base gasket and mounting screw part numbers.

⚠ Caution

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.

For the JSY1000 series, only the power-saving circuit specification is available.





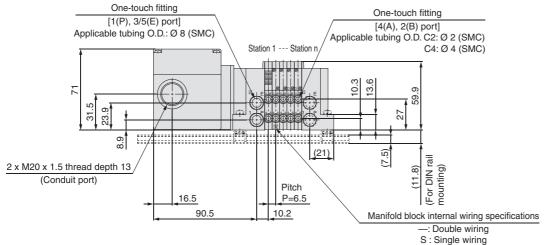
Type 10/Side Ported (Applicable to Ø 2 and Ø 4 fittings)

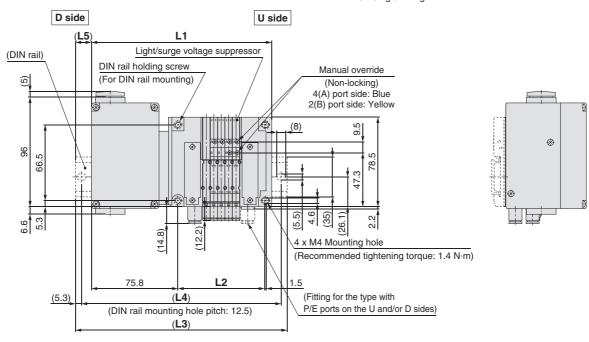
Dimensions: JSY1000 Series

Spring Type Terminal Block Box

JJ5SY1-10TC-Stations $_{\text{B}}^{\text{U}}$ - $_{\text{C4}}^{\text{C2}}$ (D)







- * These figures show the "JJ5SY1-10TC-05D-C4."
- * Refer to page 97 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 100 for dimensions.

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

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



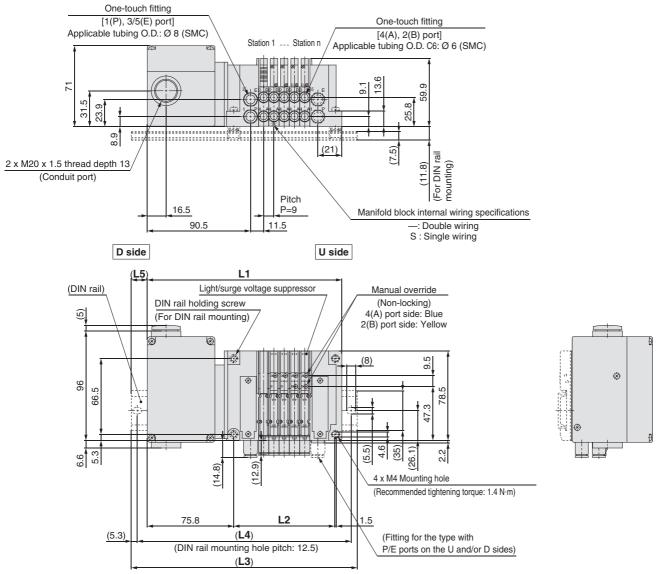
Type 10/Side Ported (Applicable to Ø 6 fittings)

Spring Type Terminal Block Box

Dimensions: JSY1000 Series

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





- * These figures show the "JJ5SY1-10TC-05D-C6."
- * Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L	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

	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



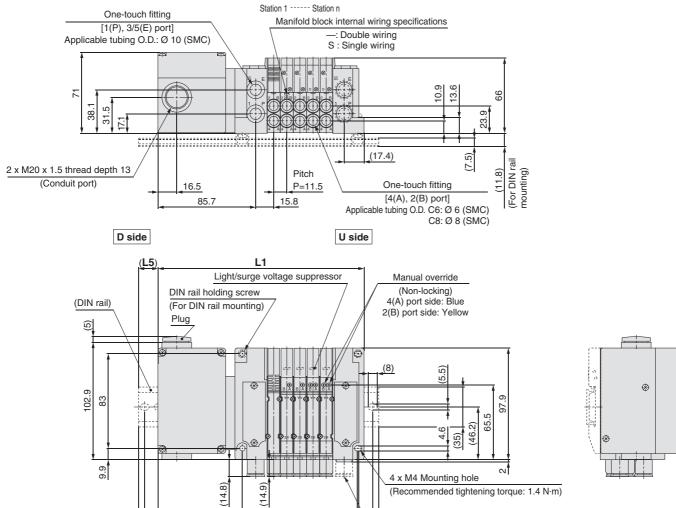
Type 10/Side Ported

Dimensions: JSY3000 Series Spring Type Terminal Block Box

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

(5.3)





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

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

(Fitting for the type with

(Recommended tightening torque: 1.4 N·m)

* Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

12

(L4)

(DIN rail mounting hole pitch: 12.5)

(L3)

	El Billioliololo															
Ì) J	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
Ì	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
Ì	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

	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



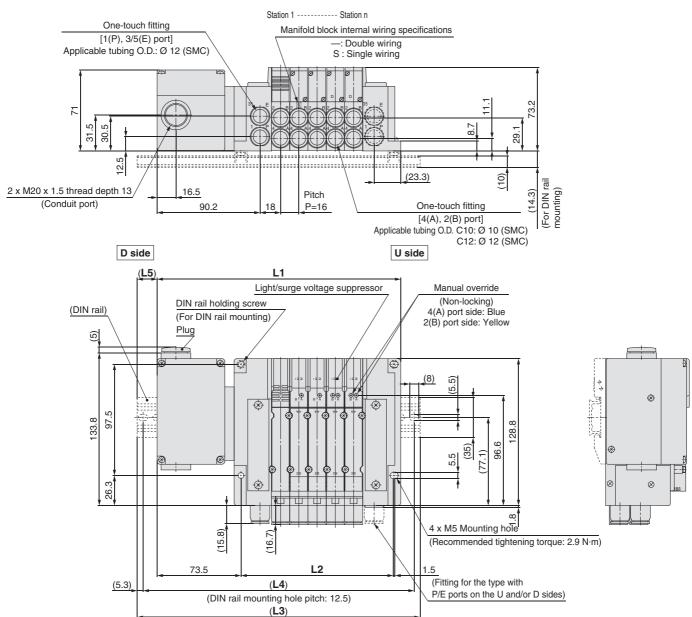
Type 10/Side Ported

Dimensions: **JSY5000** Series

Spring Type Terminal Block Box

JJ5SY5-10TC-Stations P-C12 (D)





- * These figures show the "JJ5SY5-10TC-05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

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

L	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

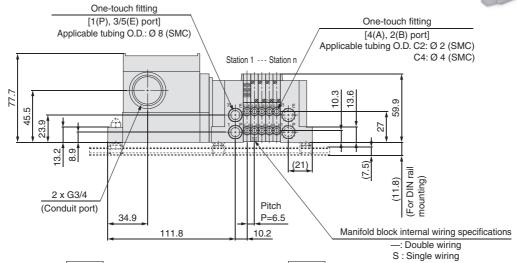


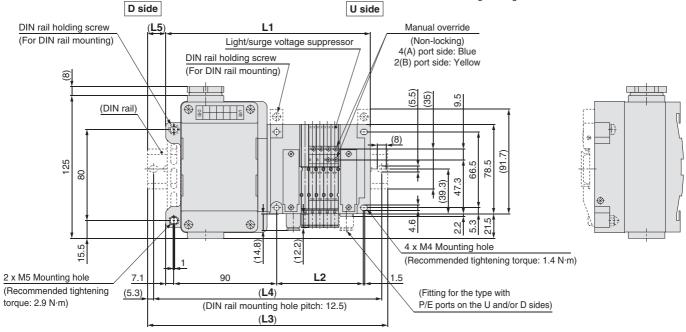
Type 10/Side Ported (Applicable to 0 2 and 0 4 fittings)
Terminal Block Box

Dimensions: JSY1000 Series

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







- * These figures show the "JJ5SY1-10T-05D-C4."
- * Refer to page 97 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 100 for dimensions.

		-													
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		

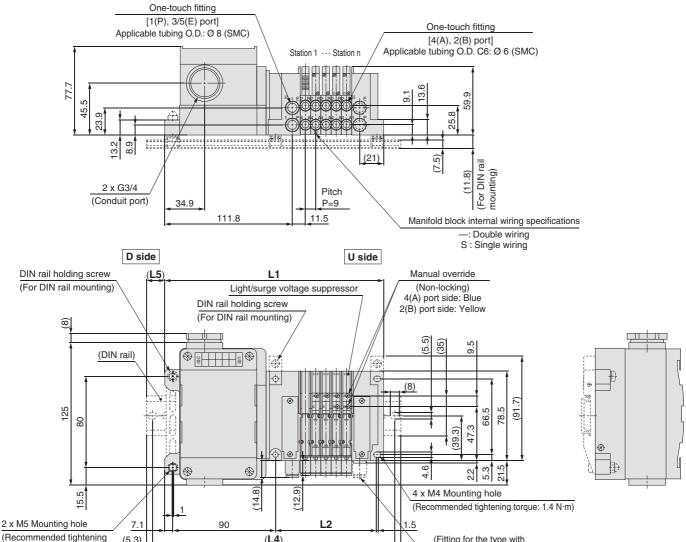


Type 10/Side Ported (Applicable to Ø 6 fittings) Terminal Block Box

Dimensions: JSY1000 Series

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





- * These figures show the "JJ5SY1-10T-05D-C6."
- * Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.

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

(Fitting for the type with

* When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L: Dimensions n: Stations

(L4)

(DIN rail mounting hole pitch: 12.5)

(L3)

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

	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

(5.3)

torque: 2.9 N·m)



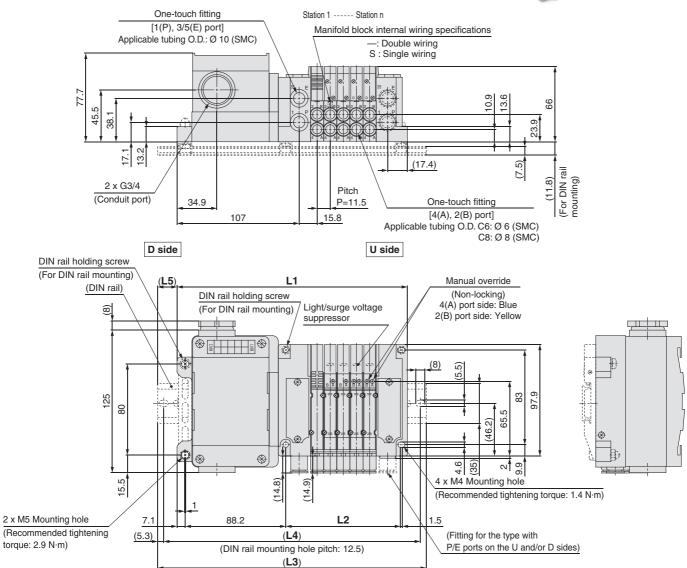
Type 10/Side Ported

Dimensions: JSY3000 Series

Terminal Block Box

JJ5SY3-10T-Stations D-C6 (D)





- * These figures show the "JJ5SY3-10T-05D-C8."
- $\ast\,$ Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

L	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

	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



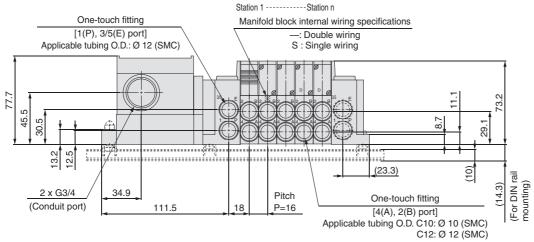
Type 10/Side Ported

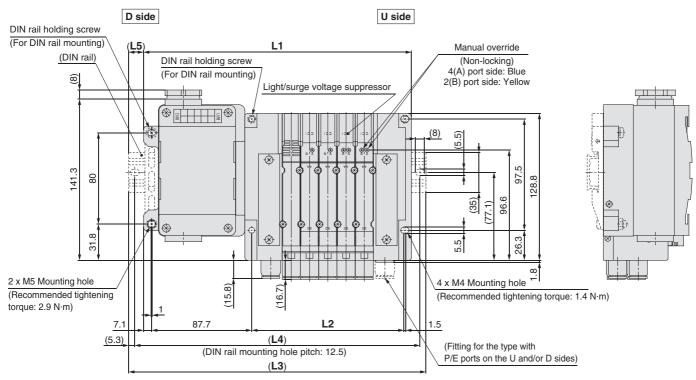
Dimensions: **JSY5000** Series

Terminal Block Box

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







- * These figures show the "JJ5SY5-10T-05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

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

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



Spring Type Terminal Block "TC" Connection

oring Type Terminal Block TO 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

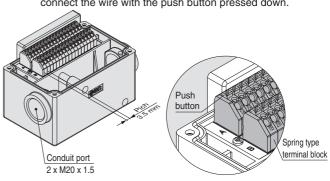
Step 3. Mount the terminal block cover.

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

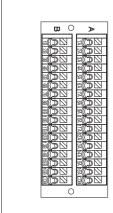
Step 2. The diagram below shows the terminal block wiring. All stations are provided with double wiring regardless of the mounted valves.

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 Ø 0.5 to Ø 1.2 mm, Stranded wire AWG24 to 16

Electrical Wiring Specifications (IP67 compliant)



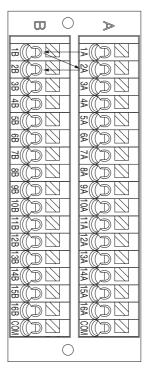
If alignment is not specified, the internal wiring will be double wiring (connected to SOL. a and SOL. b) regardless of number of stations, valve types, and option types.

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

	erminal n	o. Po	larity	
SOL. a	└ 1A	(-)	(+)	
Station 1 { SOL. b		(-)	(+)	
Station of SOL. a	-○ 2A	(-)	(+)	
Station 2 { SOL. b		(-)	(+)	
Station 3 SOL a		(-)	(+)	
(+~~~~~~		(-)	(+)	
Station 4 SOL. a		(-)	(+)	
(+~~~ <u>~~~</u>		(-)	(+)	
Station 5 SOL a	- 5A	(-)	(+)	
(+~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- 5B	(-)	(+)	
Station 6 SOL a		(-)	(+)	
(+~~~ <u>~~~</u>	- 6B	(-)	(+)	
Station 7 SOL. a	⊸ 7A	(-)	(+)	
(+~~~ <u>~~~</u>		(-)	(+)	
Station 8 SOL a	-○ 8A	(-)	(+)	
(+~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		(-)	(+)	
Station 9 Sol. a		(-)	(+)	
(~~~ ~~~ ~~	- 9B	(-)	(+)	
Station 10 Sol h	- 10A	(-)	(+)	
(L ~~~ 00L. 0	- 10B	(–)	(+)	
Station 11 SOL h	○ 11A	(-)	(+)	
(- 11B	(-)	(+)	
Station 12 Sol h	- 12A	(-)	(+)	
(-○ 12B -○ 13A	(-)	(+)	
Station 13 SOL h	-≎ 13A -≎ 13B	(-)	(+)	
SOL a	-○ 13B -○ 14A	(-)	(+)	
Station 14 SOL h	-0 14A -0 14B	(-)	(+)	
SOL a	-○ 14B -○ 15A	(-)	(+)	
Station 15 SOL h	- 15A - 15B	(-)	(+)	
SOL a	-○ 15B	(-)	(+)	
Station 16 SOL. b	○ 16A	(-)	(+)	
(-m <u>ooz.»</u>	⊸ 16B	(–)	(+)	
	⊸ COM.	(+)	(-)	
	→ COM.	(+)	(-)	
	O O IVI.	Positive	Negative	
		common	common	

Specified Layout

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

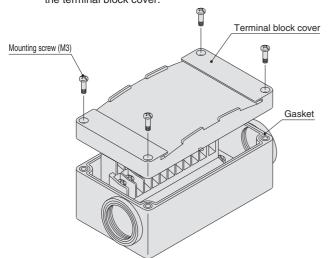




Terminal Block "T" Connection

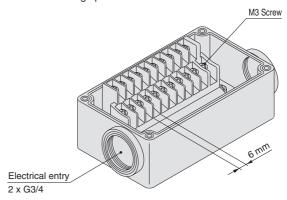
Step 1. Remove the terminal block cover.

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.

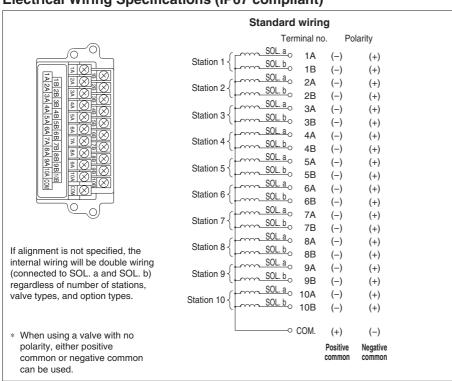
Securely tighten the screws to the torque shown below only after confirming that the gasket is installed correctly.

Proper tightening torque [N⋅m]

0.7 to 1.2

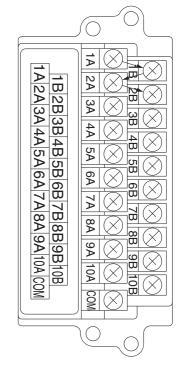
- Applicable crimped terminal: 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5
- Name plate: VVQ5000-N-T
- Drip proof plug assembly (for G3/4): AXT100-B06A

Electrical Wiring Specifications (IP67 compliant)



Specified Layout

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





Plug-in Connector Connecting Base

Lead Wire

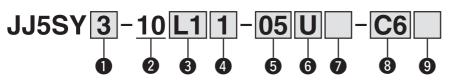
Type 10 Side Ported

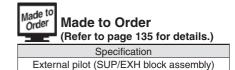
JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds





1 Series

	1	JSY1000
	3	JSY3000
	5	JSY5000

2 Type

10	Side ported

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

	_	Internal pilot				
S		Internal pilot, Built-in silencer				

- * The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order.
 For details, refer to page 135.

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

					- 3/		
Symbol		A, B port	JSY1000	JSY3000	JSY5000		
C2		Ø2		_	_	120	
C4		Ø 4	•	_	_		
C6	뒫	Ø6	•	•	_		
C8	Straight	Ø8	_	•	_		
C10		Ø 10	_	_	•		
C12		Ø 12	_	_	•	00	
CM*1		Straight port, mixed sizes	•	•	•	O Trace	
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12			

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

5 Valve stations

y 1 a 0 0 ta 0 0							
L1□]: 34 cc	ores	L2 □: 17 cores				
Symbol	Stations	Note	3	Symbol	Stations	Note	
02	2 stations			02	2 stations		
:	:	Double wiring*1		:	:	Double wiring*1	
16	16 stations			80	8 stations		
02	2 stations	Specified layout*2		02	2 stations	Specified layout*2	
:	:	(Up to 32		:	:	(Up to 16	
24	24 stations	solenoids available)		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		
:	:	(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.
 - The 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
_	Direct mounting
D□	DIN rail mounting

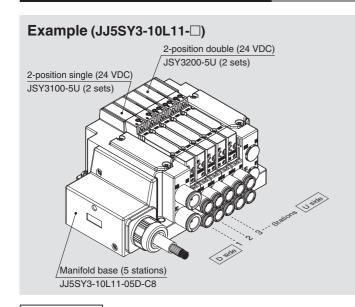
- Enter the number of stations inside
 — when it is larger than
 the number of valve stations. (Refer to "DIN Rail Option"
 shown below.)
- Refer to page 139 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

_	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations	Consist of law sets law see the se		
	i :	Specify a length longer than that of the standard rail.		
24	For 24 stations	that of the standard rail.		



How to Order Manifold Assembly



- 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.
- For the valve arrangement, the valve closest to the D side is considered the
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification

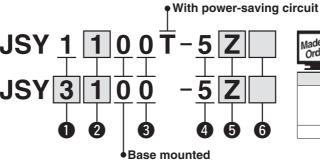
Internal Pilot

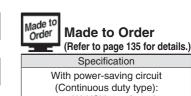
How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

JSY3000/5000 Series





0.1 W (JSY3000/5000) External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

Pilot valve exhaust method

_	
0	Pilot valve individual exhaust

Rated voltage

Tital	eu voitage	
5	24 VDC	

Type of actuation

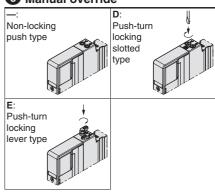
1	2-position	Single						
2	2-position	Double						
3		Closed centre						
4	3-position	Exhaust centre						
5		Pressure centre						
Α	4	N.C./N.C.						
В	4-position dual 3-port	N.O./N.O.						
С	duai 5-poit	N.C./N.O.						

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 the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

6 Manual override

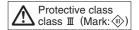


- Push-turn locking lever type "E" is not available for the JSY1000.
- When ordering a valve individually, the base gasket is not included. Since the base gasket is attached to the

manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 116 for base gasket and mounting screw part numbers.

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.

For the JSY 1000 series, only the power-saving circuit specification is available.



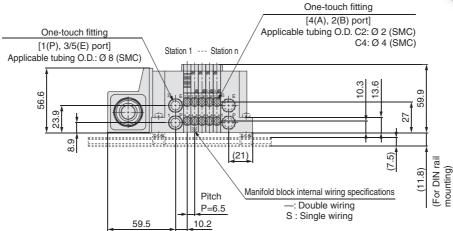


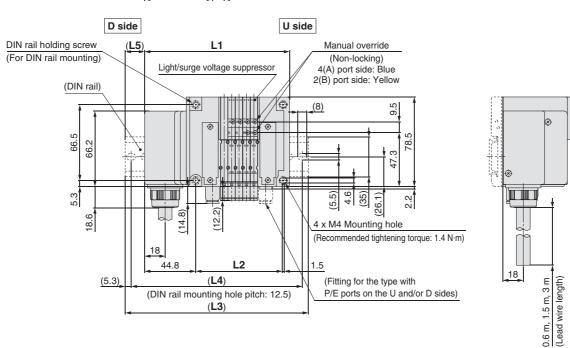
Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to 0 2 and 0 4 fittings)
Lead Wire

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







- * These figures show the "JJ5SY1-10L1 \square -05D-C4."
- Refer to page 97 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 100 for dimensions.

		0110101														
٦		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
Ī	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
Ī	L3	135.5	148	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223	223
Ī	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

	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



Dimensions: **JSY1000** Series

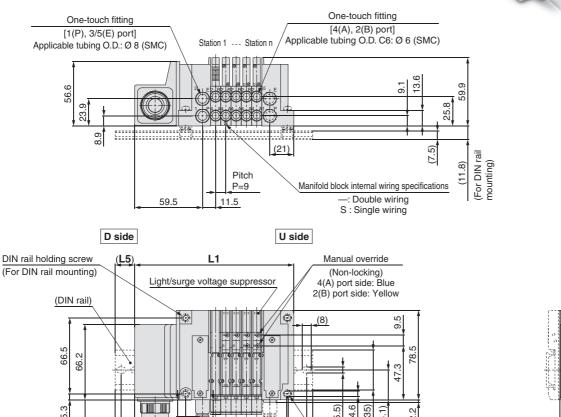
Type 10/Side Ported (Applicable to Ø 6 fittings)
Lead Wire

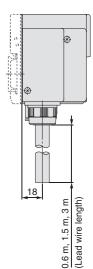
JJ5SY1-10L $\frac{1}{3}$ \square - Stations $\stackrel{\mathsf{U}}{\mathbb{R}}$ - C6(D)

8.6

(5.3)







 $\ast~$ These figures show the "JJ5SY1-10L1 \square -05D-C6."

(Recommended tightening torque: 1.4 N·m)

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

4 x M4 Mounting hole

(Fitting for the type with

- * Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L: Dimensions n: Stations

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

L	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

(L4)

(DIN rail mounting hole pitch: 12.5) (L3)



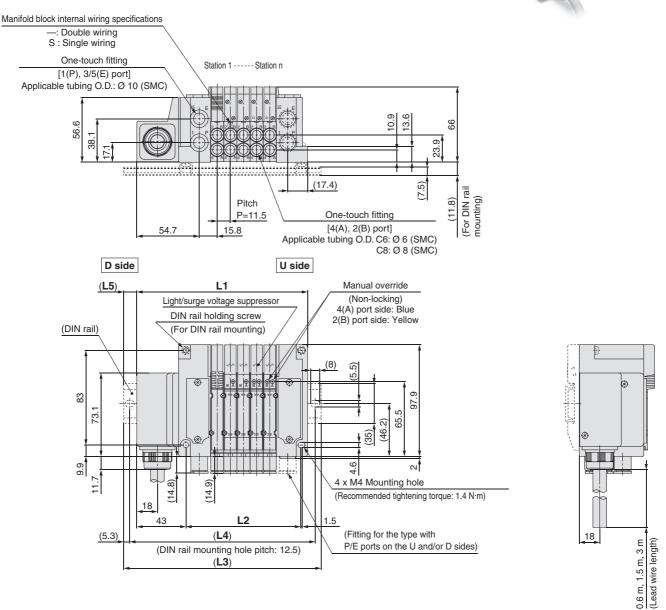
Type 10/Side Ported

Dimensions: JSY3000 Series

Lead Wire

JJ5SY3-10L $\frac{1}{3}$ \square - Stations $\stackrel{\text{U}}{\stackrel{\text{C}_{6}}{\stackrel{\text{C}_{8}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}{\stackrel{\text{C}}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}\stackrel{\text{C}}}$





- $\ast~$ These figures show the "JJ5SY3-10L1 \square -05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

	2														
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	115.1	126.6	138.1	149.6	161.1	172.6	184.1	195.6	207.1	218.6	230.1	241.6	253.1	264.6	276.1
L2	66.1	77.6	89.1	100.6	112.1	123.6	135.1	146.6	158.1	169.6	181.1	192.6	204.1	215.6	227.1
L3	148	160.5	173	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5	298	310.5
L4	137.5	150	162.5	162.5	175	187.5	200	212.5	225	237.5	250	262.5	275	287.5	300
L5	16.5	17	17.5	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17

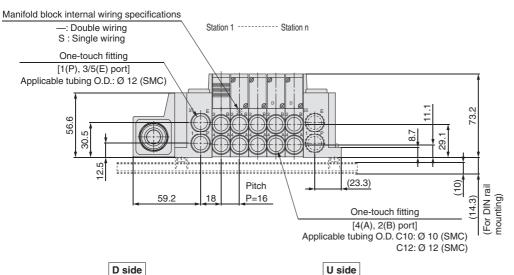
L	17	18	19	20	21	22	23	24
L1	287.6	299.1	310.6	322.1	333.6	345.1	356.6	368.1
L2	238.6	250.1	261.6	273.1	284.6	296.1	307.6	319.1
L3	323	323	335.5	348	360.5	373	385.5	398
L4	312.5	312.5	325	337.5	350	362.5	375	387.5
L5	17.5	12	12.5	13	13.5	14	14.5	15

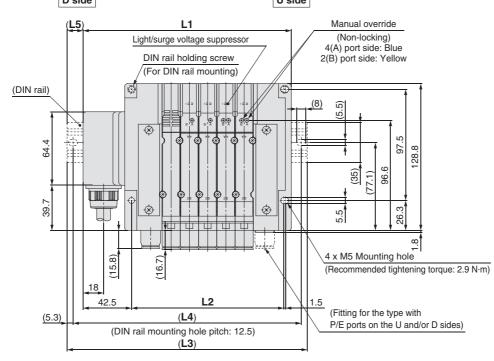


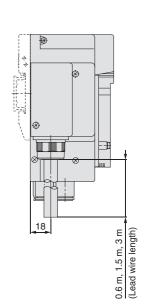
Type 10/Side Ported Lead Wire

Dimensions: **JSY5000** Series

JJ5SY5-10L $\frac{1}{3}$ \square - Stations $\stackrel{\text{U}}{\text{B}}$ - $\stackrel{\text{C10}}{\text{C12}}$ (D)







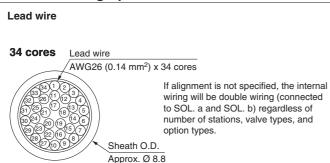
- * These figures show the "JJ5SY5-10L1 \square -05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

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	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



	Lead wire	no.	Polarity
Ctation 1	SOL. a 0 1	(-)	(+)
Station 1 {	SOL.b 2	(-)	(+)
Station 2		(-)	(+)
Station 2	SOL. b 0 4	(-)	(+)
Station 3	SOL. a 5	(-)	(+)
Stations	<u>SOL. b</u> 6	(-)	(+)
Station 4	SOL.a_o 7	(-)	(+)
Station 4	SOL. b 8	(-)	(+)
Station 5		(-)	(+)
Stations	SOL. b 0 10	(-)	(+)
Station 6	SOL. a 0 11	(-)	(+)
Otation 0	SOL. b 12	(-)	(+)
Station 7	SOL. a o 13	(-)	(+)
Oldion /	SOL. b 0 14	(-)	(+)
Station 8 √	901 h - 13	(-)	(+)
014110110		(-)	(+)
Station 9	SOL. a 0 17	(-)	(+)
014110110	18	(-)	(+)
Station 10 €	SOL. a 0 19	(-)	(+)
(901.2	(-)	(+)
Station 11 €	001 h	(-)	(+)
(201 2	(-)	(+)
Station 12 €	SOL. a 23	(–)	(+)
	SOL. a 25	(-)	(+)
Station 13 {	SOL h	(-)	(+)
- (001.0 20	(-)	(+)
Station 14	001 h	(-)	(+)
(901.2	(-)	(+)
Station 15 €	901 h	(-)	(+)
(001 0	(-)	(+)
Station 16 €	801 h	(-)	(+)
	COM	(-)	(+)
	COM 33	(+)	(-)
	○ 34	(+)	(-)
		Positiv	e Negative

Lead	Printed mark	
wire		sides)
colour	Type	Colour
Orange	_	Red
		Black
Light	_	Red
grey		Black
White	_	Red
VVIIIC		Black
Yellow		Red
Tellow		Black
Pink		Red
LIIK	_	Black
Orongo		Red
Orange		Black
Light		Red
grey		Black
White		Red
vvriite		Black
V-II		Red
Yellow		Black
Pink		Red
PINK		Black
0		Red
Orange		Black
Light		Red
grey		Black
\\/hits		Red
White		Black
Veller		Red
Yellow		Black
Dink		Red
Pink		Black
0.000		Red
Orange		Black
		Dod
Light		Red

Electrical characteristics

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

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

Specified Layout

common

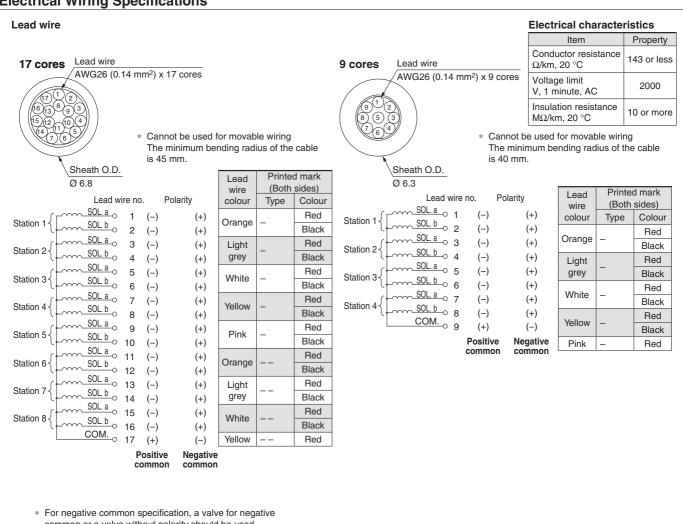
common

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.



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

Electrical Wiring Specifications



common or a valve without polarity should be used



Plug-in Connector Connecting Base

EX600

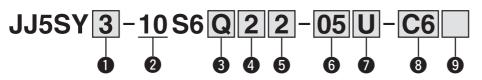
Type 10 Side Ported

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		
FA	PROFINET (IO-Link master)		
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.
 For mounting, refer to the EX600 series on page 108.

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

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

- * Ensure a match with the common specification of the valve to be used.
- When not selecting an SI unit, the symbol will be "—."

5 I/O unit stations

_	None		
1	1 station		
:	:		
9	9 stations		

- * When not selecting an SI unit, the symbol will be "—"
- * 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.

Nade to Order Ma

Made to Order (Refer to page 135 for details.)

Specification
External pilot (SUP/EXH block assembly)

6 Valve stations

	Symbol	Stations	Note			
	02	2 stations				
	- :	:	Double wiring*1			
Ì	16	16 stations	_			
	02	2 stations	Considered laws which			
	i :		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. The 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

- * The 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 into direct contact with water or other liquids.
- * The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

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

<u> </u>						
Symbol	A, B port		JSY1000	JSY3000	JSY5000	
C2		Ø2	•	_	_	~ (2)
C4		Ø 4	•	_	_	
C6	Ħ	Ø6	•	•	_	
C8	raight	Ø8	_	•	_	
C10	ŝ	Ø 10	_	_	•	
C12		Ø 12	_	_	•	00
CM*1		Straight port, mixed sizes		•	•	- O Train
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12		

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

9 Mounting and Option

Symbol	Mounting
_	Direct mounting
D	DIN rail mounting

- * Enter the number of stations inside ☐ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 139 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

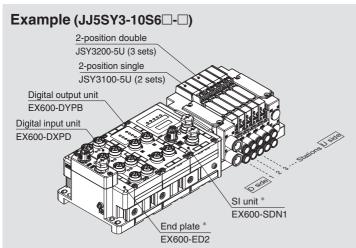
	DIN rail mounting (With D	OIN rail)										
	<u> </u>											
0	DIN rail mounting (Withou	ut DIN rail)										
3	For 3 stations											
:	:	Specify a length longer than that of the standard rail.										
24	For 24 stations	inat of the standard rail.										

* 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 131 for the DIN rail part number.)

For details on the EX600 Integrated Type (For Input/Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to pages 108 and 109. (IP40 specifications may be required according to the I/O unit to be selected.) Please download the Operation Manual via the SMC website, https://www.smc.eu



How to Order Manifold Assembly



- JJ5SY3-10S6Q72-05D-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.)
- * JSY3200-50 ----- 3 sets (2-position double part no.)

 * EX600-DXPD ------ 1 set I/O unit part number (Station 1)

 * EX600-DYPB ------- 1 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.
- · For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted, then the I/O
 units in order starting with the 1st station as shown in the figure. If the
 arrangement becomes too complicated, specify the details on a manifold
 specification sheet.
- *1 Do not enter the SI unit part number and the end plate part number together.

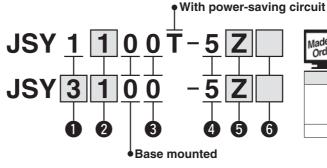
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

JSY3000/5000 Series





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

0	Pilot valve individual exhaust

4 Rated voltage

<u> </u>	ou vollage
5	24 VDC

Type of actuation

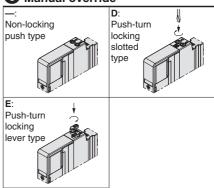
2 position	Single									
2-005111011	Double									
	Closed centre									
3-position	Exhaust centre									
	Pressure centre									
4 manitina	N.C./N.C.									
	N.O./N.O.									
duai 5-port	N.C./N.O.									
	2-position 3-position 4-position dual 3-port									

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 "U" or "Z" for the valve when the SI unit output polarity is positive common. Select "U" or "NZ" for the valve when the SI unit output polarity is negative common.
- Only "Z" and "NZ" types are available for the JSY1000 series.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

6 Manual override

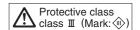


- Push-turn locking lever type "E" is not available for the JSY1000.
- When ordering a valve individually, the base gasket is not included.
- Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 116 for base gasket and mounting screw part numbers.

⚠ Caution

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.

For the JSY1000 series, only the power-saving circuit specification is available.

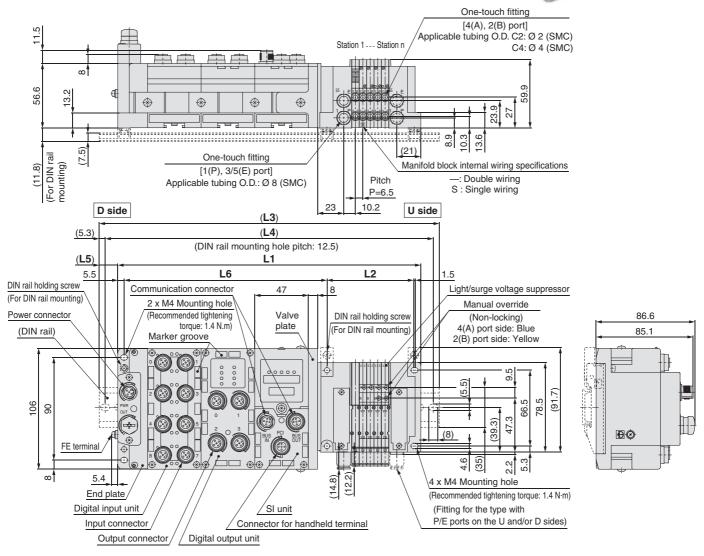




Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to © 2 and © 4 fittings EX600 (M12 Connector)





L1 = 6.5 x n1 + 139 + 47 x n2

 $L2 = 6.5 \times n1 + 43.4$

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

L6 = (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 97 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 100 for dimensions.

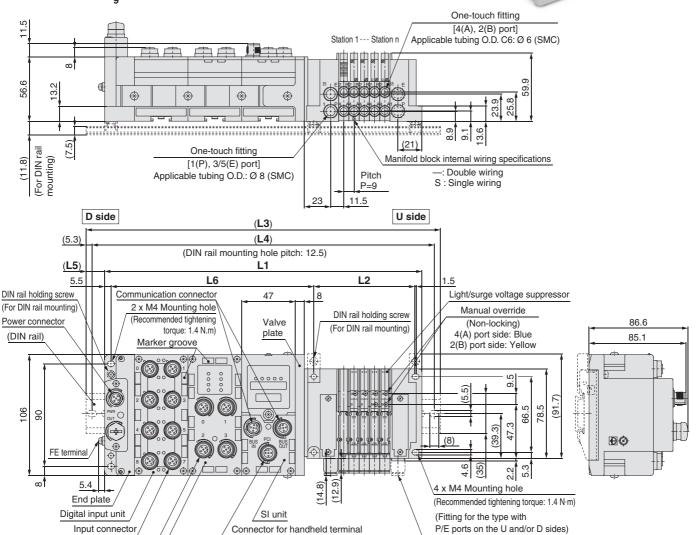
					•																		
Valve stations (n1) I/O unit stations (n2)		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	185.5	185.5	198	198	210.5	210.5	223	223	235.5	235.5	248	248	260.5	260.5	273	273	285.5	298	298	310.5	310.5	323	323
1	223	235.5	235.5	248	260.5	260.5	273	273	285.5	285.5	298	298	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 Ø 6 fittings)

EX600 (M12 Connector)

Dimensions: JSY1000 Series

JJ5SY1-10S6 $\square_{\frac{6}{8}}^{\frac{2}{4}}\square$ -Stations $\stackrel{\mathsf{U}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}}{\overset{\mathsf{D}}}{\overset{\mathsf{D}}}}{\overset{\mathsf{D}}}}{\overset{\mathsf{D}}}}}{\overset{\mathsf{D}}{\overset{\mathsf{D}}}}{\overset{\mathsf{D}}}}}$



L1 = 9 x n1 + 139 + 47 x n2 L2 = 9 x n1 + 43.4 L4 = L3 - 10.5

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 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L3: DIN Rail Overall Length

Output connector

Digital output unit

LO. DIIVI	iuii e	,,,,,,,	×111 = \	<i>,,,</i> ,	•																		
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	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

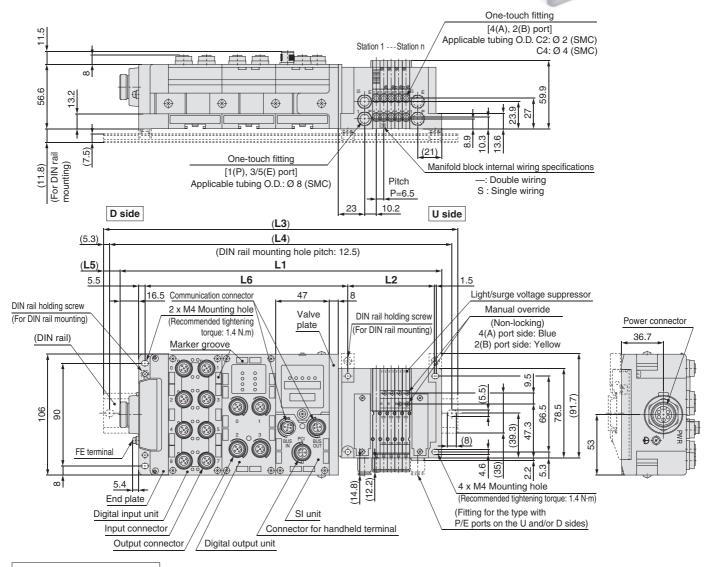


Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to © 2 and © 4 fittings EX600 (7/8 Inch Connector)

JJ5SY1-10S6 $\square \frac{3}{5}\square$ - Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C}^2}{\text{C}^4}$ (D)





L1 = 6.5 x n1 + 155.5 + 47 x n2 L2 = 6.5 x 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-C4."
- Refer to page 97 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 100 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	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

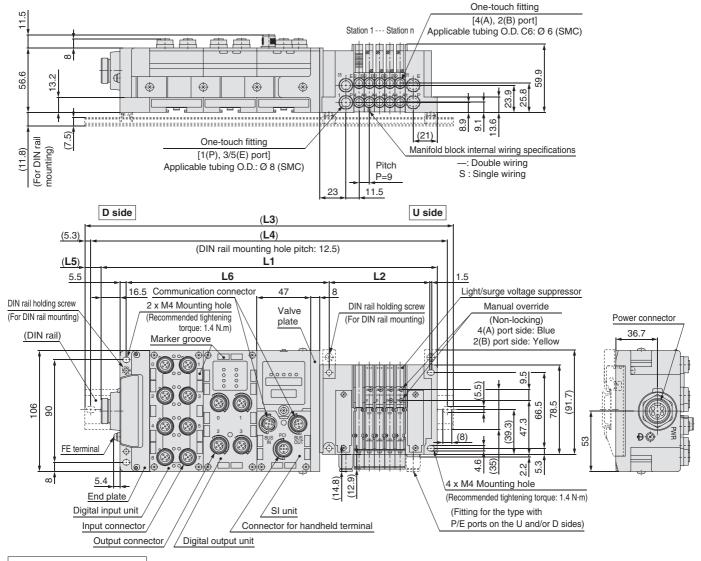
Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to Ø 6 fittings)

EX600 (7/8 Inch Connector)

JJ5SY1-10S6 3 - Stations 2 - C6(D)





 $L1 = 9 \times n1 + 155.5 + 47 \times n2$ $L2 = 9 \times n1 + 43.4$

L4 = L3 - 10.5

L5 = (L3 - L1) / 2

 $L6 = 47 \times n2 + 83.8$

n1: Valve stationsn2: I/O unit stations

- * These figures show the "JJ5SY1-10S6Q32-05D-C6."
- * Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

				<u> </u>																			
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



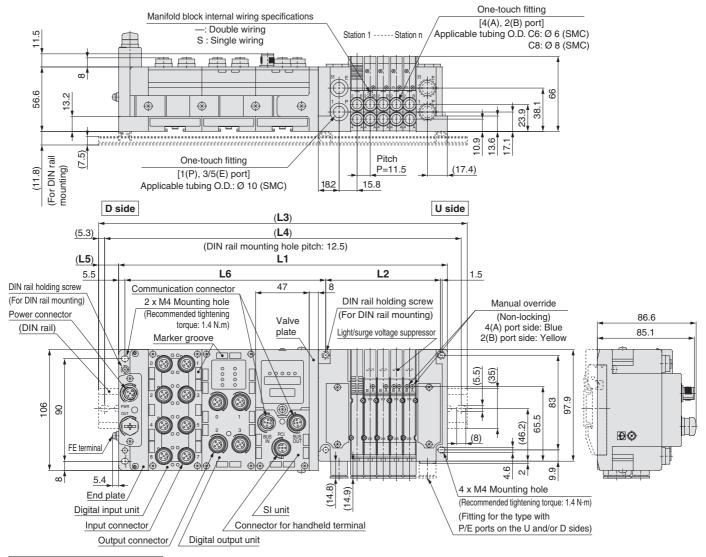
Type 10/Side Ported

Dimensions: JSY3000 Series

EX600 (M12 Connector)

JJ5SY3-10S6 \square $\begin{array}{c} \frac{2}{4} \\ \frac{7}{6} \\ \frac{7}{8} \end{array}$ - Stations $\begin{array}{c} 0 \\ 0 \\ 0 \end{array}$ - $\begin{array}{c} C6 \\ C8 \end{array}$ (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 $L6 = 47 \times n2 + 82$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY3-10S6Q22-05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

LO. DIIT		7.01	×	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	•																		
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	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

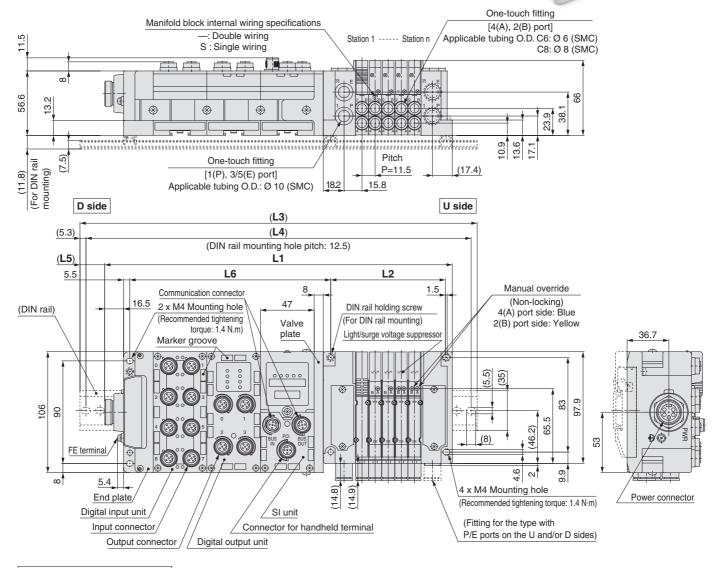
Type 10/Side Ported

Dimensions: JSY3000 Series

EX600 (7/8 Inch Connector)

JJ5SY3-10S6 $\square \ _5^3\square$ - Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C6}}{\text{C8}}$ (D)





L1 = 11.5 x n1 + 153.1 + 47 x n2 L2 = 11.5 x n1 + 43.1

L4 = L3 - 10.5

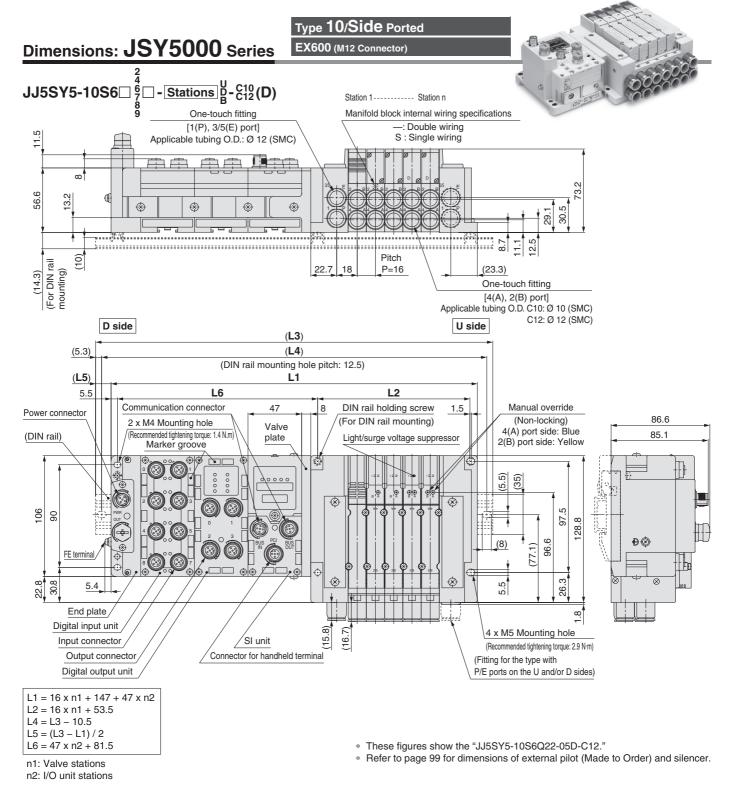
L5 = (L3 - L1) / 2

 $L6 = 47 \times n2 + 82$

n1: Valve stations n2: I/O unit stations

- * These figures show the "JJ5SY3-10S6Q32-05D-C8."
- * Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

LO. DIII				<u>g</u>																			
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	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



L3: DIN Rail Overall Length

71

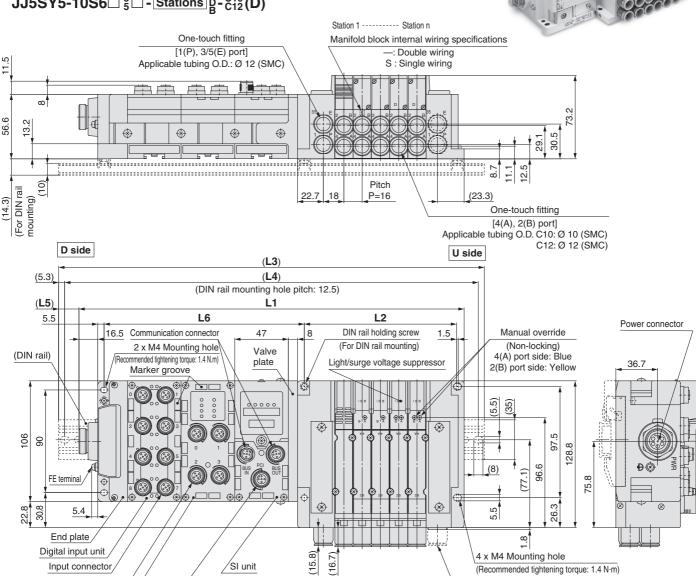
Ed. Dirt Hair Overair Eerigin																							
Valve stations (n1) I/O unit stations (n2)		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	485.5	498	510.5	523	548	560.5
1	260.5	273	285.5	298	323	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

Puesin Connector Connecting Base JSY1000/3000/5000 Series

Type 10/Side Ported Dimensions: **JSY5000** Series EX600 (7/8 Inch Connector)

Connector for handheld terminal

JJ5SY5-10S6 $\square \stackrel{3}{5}\square$ - Stations $\stackrel{\mathsf{U}}{\mathsf{P}}$ - $\stackrel{\mathsf{C}10}{\mathsf{C}12}$ (D)



 $L1 = 16 \times n1 + 163.5 + 47 \times n2$

Output connector

Digital output unit

 $L2 = 16 \times n1 + 53.5$ 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 99 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)

L3: DIN Rail Overall Length

LO. DIN I	iuii e	71010	×111 E	,,,,	•																		
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	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

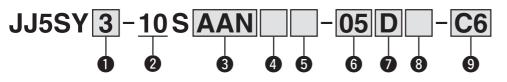
EX245

Type 10/ Side Ported

JSY3000/5000 Series



How to Order Manifolds



Only direct mounting is selectable for the manifold.



Made to Order (Refer to page 135 for details.)

Specification

External pilot
(SUP/EXH block assembly)

1 Series

3	JSY3000
5	JSY5000

2 Туре

10	Side ported
----	-------------

3 SI unit

Symbol (Output polarity) Negative common (PNP)	Protocol	Communication connector	Communication 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

_	Without I/O module
Υ	With I/O module

* When not selecting an SI unit, the symbol will be "—."

5 Number of I/O modules

_	Without I/O module
1	1 station
:	:
8	8 stations

* When not selecting an SI unit, the symbol will be "—."

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. The 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 the blanking plate assembly.

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)

8 SUP/EXH block assembly

_	Internal pilot
S	Internal pilot, Built-in silencer

- * The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

9 A, B port size (Metric)

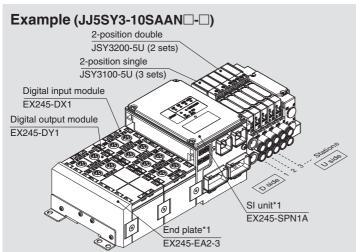
		/			
Symbol		A, B port	JSY3000	JSY5000	
C6		Ø 6 One-touch fitting	•	_	
C8	Ħ	Ø 8 One-touch fitting	•	_	
C10	raig	Ø 10 One-touch fitting	_	•	
C12	Š	Ø 12 One-touch fitting	_	•	
CM*1		Straight port, mixed sizes			
P,	Ε	port size (One-touch fittings)	Ø 10	Ø 12	

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

For details on the EX245 Integrated Type (For Input/Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 110. Please download the Operation Manual via the SMC website, https://www.smc.eu



How to Order Manifold Assembly



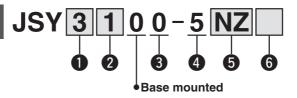
- * EX245-DX1 ················ 1 set I/O module part number
 * EX245-DY1 ············· 1 set I/O module part number
 - ─►The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · For the valve arrangement, the valve closest to the D side is considered the 1st station.
- 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 modules in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.
- *1 Do not enter the SI unit part number and the end plate part number together.

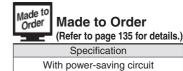
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY3000/5000 Series





(Continuous duty type): 0.1 W (JSY3000/5000) External pilot

Series

3	JSY3000
5	JSY5000

3 Pilot valve exhaust method Pilot valve individual exhaust

4	Rated	voltage

THE Ra	ted voltage
5	24 VDC

2 Type of actuation

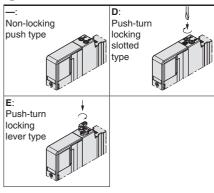
1	2 position	Single				
2	2-position	Double				
3		Closed centre				
4	3-position	Exhaust centre				
5		Pressure centre				
Α	4 manikina	N.C./N.C.				
В	4-position dual 3-port	N.O./N.O.				
С	duai 5-poit	N.C./N.O.				

5 Light/surge voltage suppressor and common specification

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

 When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

6 Manual override

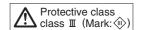


When ordering a valve individually, the base gasket is not included.
 Since the base gasket is attached to the

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 116 for base gasket and mounting screw part numbers.

⚠ Caution

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.





JSY3000/5000 Series

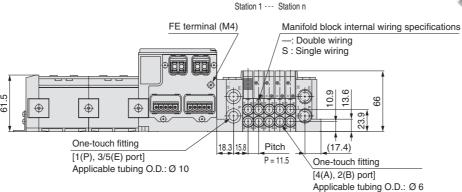
Type 10/Side Ported

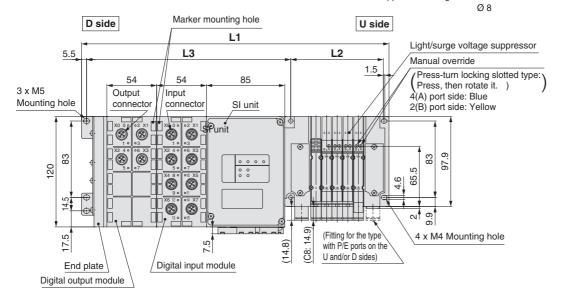
Dimensions: JSY3000 Series

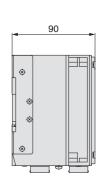
EX245

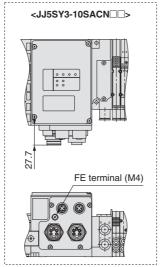
JJ5SY3-10SA \square - Stations $^{\text{U}}_{\text{R}}$ - $^{\text{C6}}_{\text{C8}}$











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 98 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	1 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

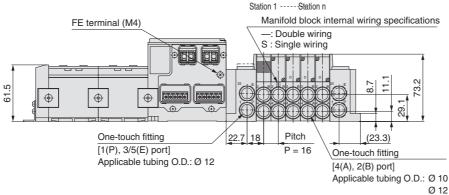
Plug-in Connector Connecting Base JSY3000/5000 Series

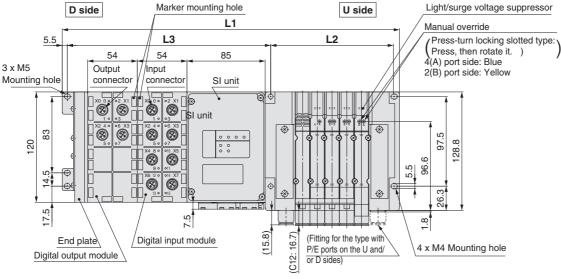
Dimensions: **JSY5000** Series

Type 10/Side Ported EX245

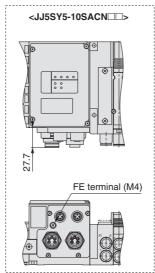
JJ5SY5-10SA \square - Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C10}}{\text{C12}}$











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

- * These figures show the "JJ5SY5-10SAANY2-05D-C12."
- * Refer to page 99 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 first transfer of																							
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

Plug-in Connector Connecting Base

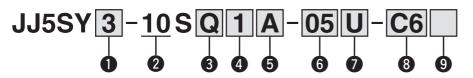
Type 10 Side Ported

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds



Series

1	JSY1000
3	JSY3000
5	JSY5000

3 SI unit										
0		Without SI unit								
Q	Device	DeviceNet™ (Negative common)								
N	PROFIBUS DP (Negative common)									
TA	4011	2 isolated	8 in/8 out, 31 slave modes							
TB	AS-Interface (Negative	common type	4 in/4 out, 31 slave modes							
TC	common)	1 common	8 in/8 out, 31 slave modes							
TD	Common	type	4 in/4 out, 31 slave modes							
Υ	CAN	pen (Ne	gative common)							
ZE	EtherNe	et/IP™ (N	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

10	Side ported	

4 Input block stations

_	None							
1	1 station							
i	:							
8	8 stations							

When not selecting an SI unit, the symbol will be "-The maximum number of stations is limited for the AS-Interface applicable SI unit.

Input block type

• III part in recent t	7 -			
	PNP sensor input	NPN sensor input		
Without input block	_			
M12, 2 inputs	Α	D		
M12, 4 inputs	В	E		
M8, 4 inputs	С	F		

* When not selecting an SI unit, the symbol will be "--."

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

- The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø2		_	_	
C4		Ø 4	•	_	_	
C6	풀	Ø6	•	•	_	
C8	Straight	Ø8	_	•	_	
C10	ŝ	Ø 10	_	_	•	
C12		Ø 12	_	_		00
CM*1		Straight port, mixed sizes			•	_Or
		port size uch fittings)	Ø 8	Ø 10	Ø 12	

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

For details on the EX250 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalogue and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 112. Please download the Operation Manual via the SMC website, https://www.smc.eu



_	_	•		•	•	,
			Sp	eci	fication	
	Exte	rnal _l	pilot (SI	JP/	EXH block assembly	')

6 Valve stations

		Clationic										
Symbol	Stations	Note										
02	2 stations											
:	:	Double wiring*1										
16	16 stations	_										
02	2 stations	Considered laws which										
:	:	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. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.) When determining the number of valve stations, note that the maximum number of solenoids for the AS-Interface applicable SI unit specification is as follows.
 - · 8 in/8 out specification: Max. 8 solenoids
- 4 in/4 out specification: Max. 4 solenoids
- This also includes the number of blanking
- 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.

Mounting and Option

	and option
Symbol — D□	Mounting
_	Direct mounting
D□	DIN rail mounting

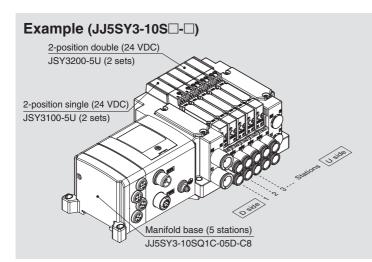
- Enter the number of stations inside \square when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 139 for details on securing the DIN rail mounting type manifold.
- DIN rail mounting ($D\square$) is not available for the product without the SI unit (S0).

DIN Rail Ontion

Dill Hall	Option											
_	DIN rail mounting (With DIN ra											
0	DIN rail	mounting (Without DIN rail)										
3	For 3 stations	0										
:	i	Specify a length longer than that of the standard rail.										
24	For 24 stations	that of the Standard rail.										

Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 131 for the DIN rail part number.)

How to Order Manifold Assembly



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

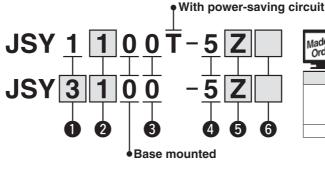
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

JSY3000/5000 Series





Made to Order (Refer to page 135 for details.)

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

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

Pilot valve exhaust method

_	
_ n	Pilot valve individual exhaust

4 Rated voltage

Tiu	ca voltage		
5		24 VDC	

Type of actuation

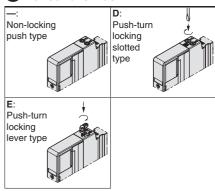
1	2-position	Single							
2	2-position	Double							
3		Closed centre							
4	3-position	Exhaust centre							
5		Pressure centre							
Α	4	N.C./N.C.							
В	4-position dual 3-port	N.O./N.O.							
С	duai 3-poit	N.C./N.O.							

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

- "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 the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

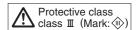
6 Manual override



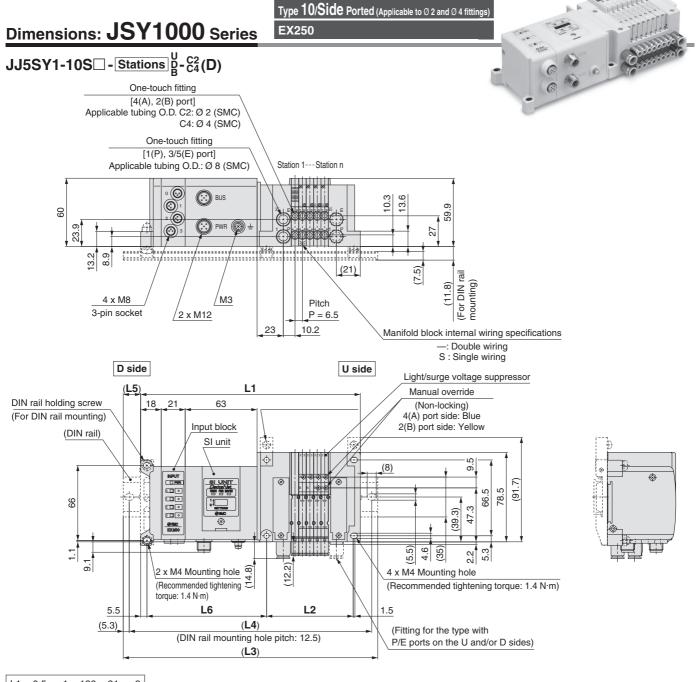
- Push-turn locking lever type "E" is not available for the JSY1000.
- When ordering a valve individually, the base gasket is not included.
 - Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 116 for base gasket and mounting screw part numbers.

If the JSY3000/5000 series is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.

For the JSY 1000 series, only the power-saving circuit specification is available.







 $L1 = 6.5 \times n1 + 139 + 21 \times n2$ $L2 = 6.5 \times n1 + 43.4$ 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 97 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 100 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

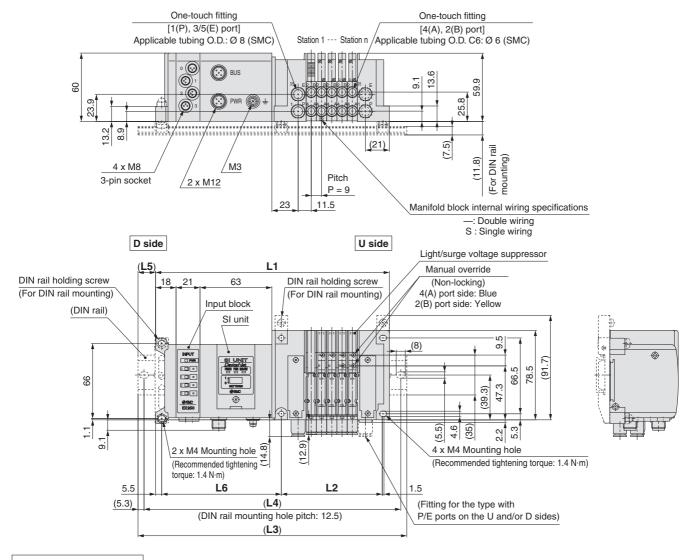
Puesin Connector Connecting Base JSY1000/3000/5000 Series

Dimensions: JSY1000 Series

Type 10/Side Ported (Applicable to Ø 6 fittings) EX250

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





 $L1 = 9 \times n1 + 139 + 21 \times n2$

 $L2 = 9 \times n1 + 43.4$

L4 = L3 - 10.5

L5 = (L3 - L1) / 2

 $L6 = 21 \times n2 + 83.8$

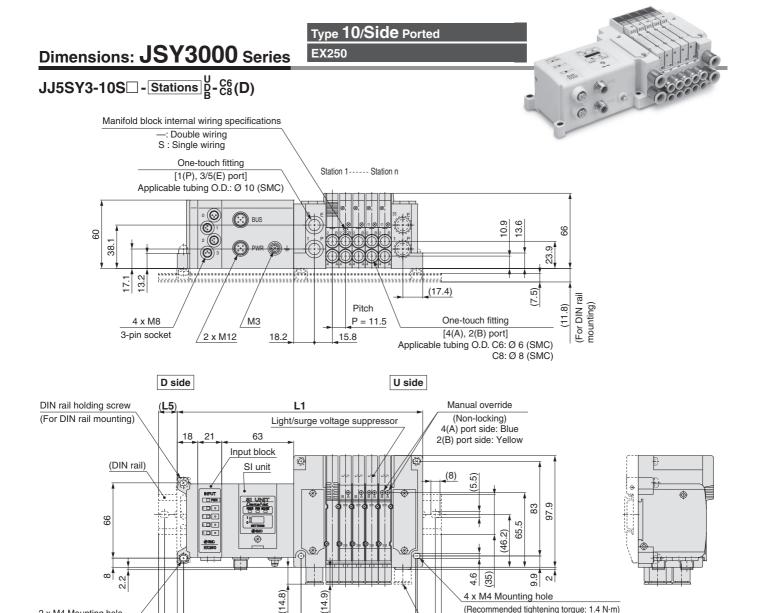
- * These figures show the "JJ5SY1-10SQ1A-05D-C6."
- Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

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

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	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 $L2 = 11.5 \times n1 + 43.1$

L4 = L3 - 10.5

2 x M4 Mounting hole (Recommended tightening

torque: 1.4 N·m)

L5 = (L3 - L1) / 2 $L6 = 21 \times n2 + 82$

n1: Number of valve stations of the JSY3000

5.5

(5.3)

L6

(L4)

(DIN rail mounting hole pitch: 12.5) (L3)

n2: Input block stations

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

(Fitting for the type with

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

* Refer to page 98 for dimensions of external pilot (Made to Order) and silencer.

(Recommended tightening torque: 1.4 N·m)

L3: DIN Rail Overall Length

LO. DII	L3. Din Hall Overall Length																							
Valve sta	(n1)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
0	1	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	2	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	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	2	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	2	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	2	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	3	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	3	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	3	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

L2

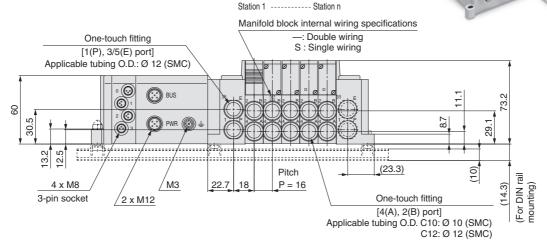
Puesin Connector Connecting Base JSY1000/3000/5000 Series

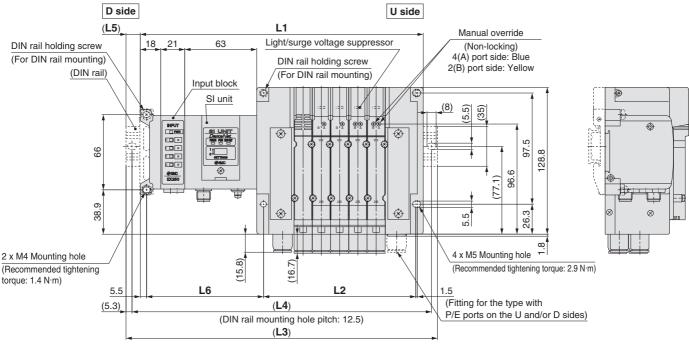
Type 10/SIGE Port

Dimensions: **JSY5000** Series

JJ5SY5-10S□ - Stations P - C10 (D)







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

 $L2 = 16 \times n1 + 53.5$

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

 $L6 = 21 \times n2 + 81.5$

n1: Number of valve stations of the JSY5000

n2: Input block stations

- $\ast\,$ These figures show the "JJ5SY5-10SQ1A-05D-C12."
- * Refer to page 99 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

Plug-in Connector Connecting Base

Type 10 Side Ported

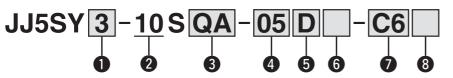
JSY1000/3000/5000 Series

Refer to page 8 5 for details on manifolds that support safety communication (PROFIsafe).

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 connector			
(NPN)	Negative common (PNP)	Protocol	of outputs				
0	*1	Without SI unit					
QA	QAN	DeviceNet™	32	M12			
QB	QBN	Devicervet	16	IVIIZ			
NA	NAN		32	M12			
NB	NBN	PROFIBUS	16	IVIIZ			
NC	NCN	DP	32	D-sub			
ND	NDN		16	บ-อนม			
VA	VAN	CC-Link	32	M12			
VB	VBN	OO-LIIIK	16	IVIIZ			
DA	DAN	EtherCAT	32	M12			
DB	DBN	Lilleroat	16	IVI I Z			
FA	FAN	PROFINET	32	M12			
FB	FBN	THOTINET	16	IVIIZ			
EA	EAN	EtherNet/IP™	32	M12			
EB	EBN	Luicinet/iF	16	IVIIZ			
*2	GAN	Ethernet	32	M12			
*2	GBN	POWERLINK	16	WH2			
*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.

Type

<u> </u>	
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

_	Internal pilot
S	Internal pilot, Built-in silencer

- The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

Made to Order (Refer to page 135 for details.)

Specification External pilot (SUP/EXH block assembly)

Walve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	
02	2 stations	0
:	1	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 10 soletiolds available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The 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		Ø 4	•	_	_	
C6	Ħ	Ø6	•		_	
C8	Straight	Ø8	_	•	_	
C10	Stl	Ø 10	_	_	•	
C12		Ø 12	_	_	•	00
CM*1		Straight port, mixed sizes	•			a
P, E port size (One-touch fittings)			Ø 8	Ø 10	Ø 12	



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 on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalogue and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 113. Please download the Operation Manual via the SMC website, https://www.smc.eu



Symbol	Mounting
_	Direct mounting
D	DIN rail mounting

- Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 139 for details on securing the DIN rail mounting type manifold.
- DIN rail mounting (D□) is not available for the product without the SI unit (S0).

DIN Rail Option

_	DIN rail mounting (With DIN rail)						
0	DIN rail	DIN rail mounting (Without DIN rail)					
3	For 3 stations	Connection of Language theory					
:	:	Specify a length longer than that of the standard rail.					
24	For 24 stations	that of the Standard rail.					

Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 131 for the DIN rail part number.)



How to Order Manifold Assembly

2-position double (24 VDC) JSY3100-5U (2 sets) Manifold base (5 stations) JJ5SY3-10SNAN-05D-C8

- 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.
- · For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

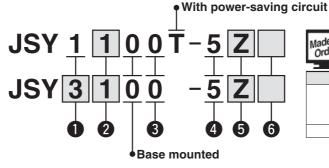
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

JSY3000/5000 Series



Single

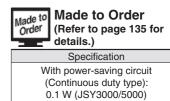
Double

Closed centre

Exhaust centre
Pressure centre
N.C./N.C.

N.O./N.O.

N.C./N.O.



External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

3 Pilot valve exhaust method

4 Rated voltage

5	24 VDC

5 Light/surge voltage suppressor and common specification

Type of actuation

2

3

4

Α

В

C

2-position

3-position

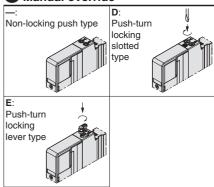
4-position

dual 3-port

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

- * Select "U" or "Z" for the valve when the SI unit output polarity is (positive common). Select "U" or "NZ" for the valve when the SI unit output polarity is N (negative common).
- Only "Z" and "NZ" types are available for the JSY1000 series.
- When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

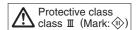
6 Manual override



- 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 116 for base gasket and mounting screw part numbers.

⚠ Caution

If the JSY3000/5000 series is to be continuously energised, please be sure to select the powersaving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135. For the JSY1000 series, only the power-saving circuit specification is available.





Plug-in Connector Connecting Base

EX260 Safety Communication Protocol (PROFIsafe)

Type 10 Side Ported

JSY1000/3000/5000 Series

Using the safety communication protocol

Refer to the EX260 Web Catalogue for details on units that support the safety communication

When using a manifold valve within an ISO 13849-compliant safety system, the device needs to be considered from both the pneumatic circuit and the electric side.

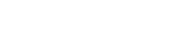
Devices (including valves) need to be selected based on whether their functions are in line with the safety level of the equipment as a whole.

The use of valves that have been validated as being compliant with ISO 13849-2 may be required. For details on valves that have been validated, please contact SMC.

In addition, refer to "Safety Instructions" for precautions on model selection.

Internal Pilot

How to Order Manifolds



Refer to page 83 for details on manifolds that support Fieldbus and Industrial Ethernet.



Series

1	JSY1000
3	JSY3000
5	JSY5000

4 Valve stations

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

*1 Double wiring: 2-position single, 3-position, and 4-position valves can be used on all manifold stations.

The 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 3-position and 4-position valves cannot be used where single wiring has been specified.)
- This also includes the number of blanking plates

2 Type

10 Side ported	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

S	Internal pilot, Built-in silencer
* The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

Made to Order (Refer to page 135 for details.)

Specification External pilot (SUP/EXH block assembly)

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

Symbol (Ou Positive common (NPN)			Number of outputs	Communication connector
0 *1		Without	SI unit	
*2	FPN	PROFIsafe	32*3	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 Only the 32 outputs type is available. * DIN rail cannot be mounted without SI unit.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		Ø2	•	_	_	
C4		Ø 4	•	_	_	
C6	ght	Ø 6	•	•	_	
C8	rai	Ø 8	_	•	_	
C10	ŝ	Ø 10	_	_	•	
C12		Ø 12	_	_	•	
CM*1		Straight port, mixed sizes	•	•	•	
P, E	por	t size (One-touch fittings)	Ø8	Ø 10	Ø 12	



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

Mounting and Option

Symbol	Mounting
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 139 for details on securing the DIN rail mounting type manifold.
- DIN rail mounting (D□) is not available for the product without the SI unit (S0).

DIN Rail Option

_	DIN rail mounting (With DIN rail)				DIN rail mounting (With DIN rail)		
0	DIN rail mounting (Without DIN rail)						
3	For 3 stations	Consider a law orth James with a					
:	÷	Specify a length longer than that of the standard rail.					
24	For 24 stations	that of the standard fall.					

* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 131 for the DIN rail part number.)

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalogue and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 113. Please download the Operation Manual via the SMC website, https://www.smc.eu

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

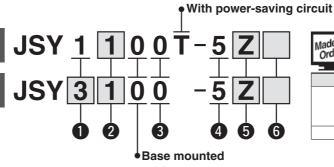
* 2-position double of rubber seal and manual override with locking function (D, E type) are excluded, because they don't comply with safety standard.

Internal Pilot

How to Order Valves (With mounting screw)

JSY1000 Series

JSY3000/5000 Series



Made to Order Order (Refer to page 135 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

Pilot valve exhaust method Pilot valve individual exhaust

_			

4 Rat	ed voltage	
5		24 VDC

If the JSY3000/5000 series is to be continuously energised, please be sure to select the powersaving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.
For the JSY1000 series, only the power-saving circuit specification is available.

2 Type of actuation

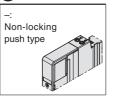
1	2-position	Single					
3		Closed centre					
4	3-position	Exhaust centre					
5		Pressure centre					
Α	4	N.C./N.C.					
В	4-position dual 3-port	N.O./N.O.					
С	duai 3-poit	N.C./N.O.					

5 Light/surge voltage suppressor and common specification

Symbo	With li	ant I	, ,	Common		
Syllibe	vviui ii	giit sup	pressor	specification		
U				Non-polar		
NZ	•			Negative common		

- * Only "NZ" type is available for the JSY1000 series.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

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. Refer to page 116 for base gasket and mounting screw part numbers.

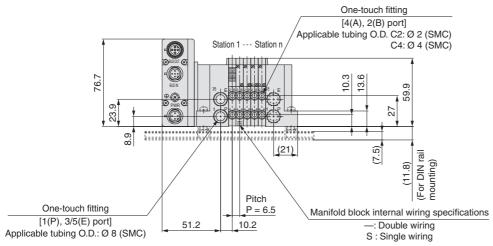


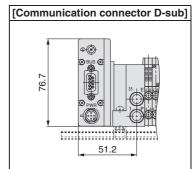
Type 10/Side Ported (Applicable to Ø 2 and Ø 4 fittings)
EX260

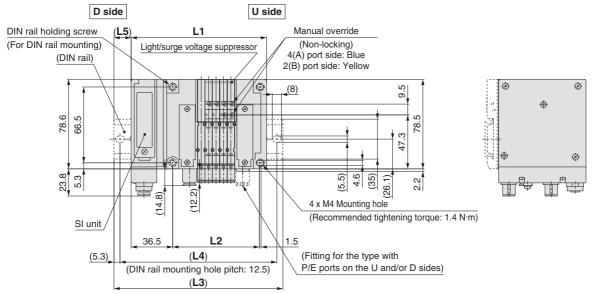
Dimensions: JSY1000 Series

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









- * These figures show the "JJ5SY1-10SQA-05D-C4."
- * Refer to page 97 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 100 for dimensions.

L: Dimensions n: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	99.2	105.7	112.2	118.7	125.2	131.7	138.2	144.7	151.2	157.7	164.2	170.7	177.2	183.7	190.2
L2	56.4	62.9	69.4	75.9	82.4	88.9	95.4	101.9	108.4	114.9	121.4	127.9	134.4	140.9	147.4
L3	123	135.5	135.5	148	160.5	160.5	173	173	185.5	185.5	198	198	210.5	210.5	223
L4	112.5	125	125	137.5	150	150	162.5	162.5	175	175	187.5	187.5	200	200	212.5
L5	12	15	12	15	18	15	18	14	17	14	17	14	17	14	17

L	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



Puesin Connector Connecting Base JSY1000/3000/5000 Series

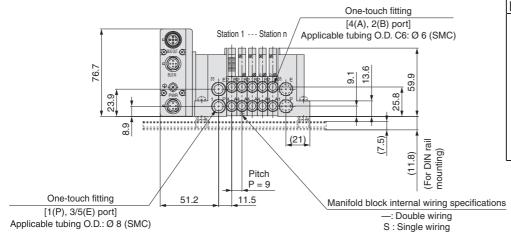
Type 10/Side Ported (Applicable to Ø 6 fittings)

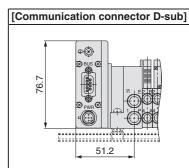
EX260

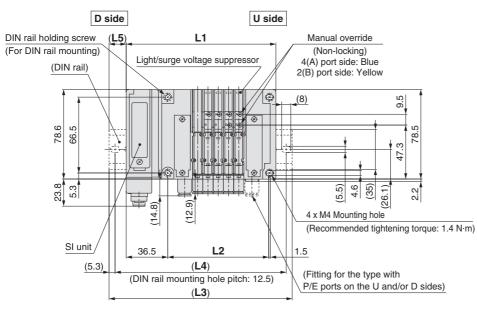
Dimensions: JSY1000 Series

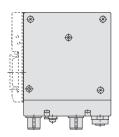
JJ5SY1-10S - Stations D-C6(D)











- * These figures show the "JJ5SY1-10SQA-05D-C6."
- * Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L: Dimensions n: Stations

		-													
L 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

L	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



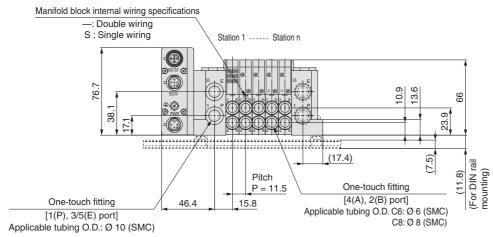
Type 10/Side Ported

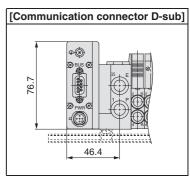
Dimensions: JSY3000 Series

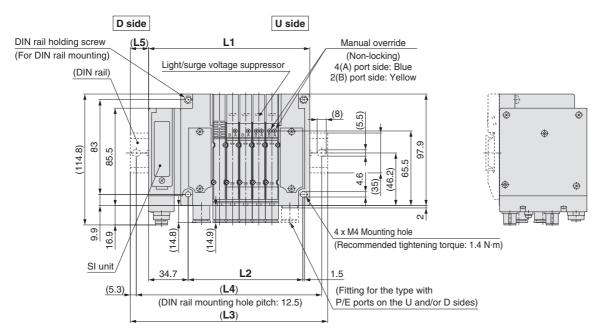
EX260

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









- * These figures show the "JJ5SY3-10SQA-05D-C8."
- * Refer to page 98 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

L	17	18	19	20	21	22	23	24
L1	279.3	290.8	302.3	313.8	325.3	336.8	348.3	359.8
L2	238.6	250.1	261.1	273.1	284.6	296.1	307.6	319.1
L3	310.5	323	335.5	348	360.5	360.5	373	385.5
L4	300	312.5	325	337.5	350	350	362.5	375
L5	16	16	17	17	18	12	13	13

89



Puesin Connector Connecting Base JSY1000/3000/5000 Series

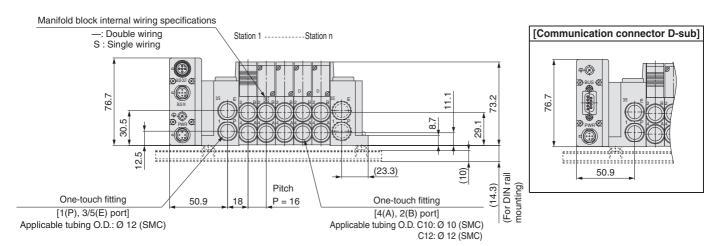
Type 10/Side Ported

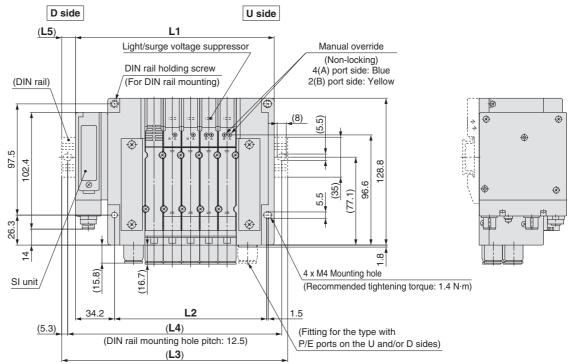
Dimensions: **JSY5000** Series

EX260

JJ5SY5-10S \square -Stations $_{\text{B}}^{\text{U}}$ - $_{\text{C12}}^{\text{C10}}$ (D)







- * These figures show the "JJ5SY5-10SQA-05D-C12."
- * Refer to page 99 for dimensions of external pilot (Made to Order) and silencer.

L: Dimensions n: Stations

L. DIIII	E. Difficilisions														i. Otations
L	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	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



Plug-in Connector Connecting Base

EX120

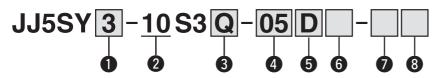
Type 10 Side Ported

JSY1000/3000/5000 Series

(E RoHS

Internal Pilot

How to Order Manifolds



1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 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	
V	CC-Link (Positiv	e 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)

6 SUP/EXH block

<u> </u>		. —
	_	Internal pilot
	S	Internal pilot, Built-in silencer

- * The 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 135.

Made to Order

Made to Order (Refer to page 135 for details.)

	•		
		Specification	
Exte	rnal pilot	(SUP/EXH block asse	mbly)

4 Valve stations

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 10 soletious available)

- 1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The 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)

	- 1				3/		
Symbol	A, B port		JSY1000	JSY3000	JSY5000		
C2		Ø2	•	_	_	~ (2)	
C4		Ø 4	•	_	_		
C6	Ħ	Ø6	•	•	_		
C8	Straight	áj	Ø8	_	•	_	
C10	ŝ	Ø 10	_	_	•		
C12		Ø 12	_	_	•	00	
CM*1		Straight port, mixed sizes	•	•	•	- Ordinar	
P, E port size (One-touch fittings)		Ø 8	Ø 10	Ø 12			

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

8 Mounting and Option

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

- Enter the number of stations inside ☐ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 139 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

_	DIN rail mounting (With DIN rail)		
0	DIN rail mounting (Without DIN rail)		
3	For 3 stations	Consists a lowesth lowers there	
	:	Specify a length longer than that of the standard rail.	
16	For 16 stations	iliai oi ilie siailualu lall.	

* 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 131 for the DIN rail part number.)

For details on the EX120 Integrated Type (For Output) Serial Transmission System, refer to the **Web Catalogue** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 114. Please download the Operation Manual via the SMC website, https://www.smc.eu



How to Order Manifold Assembly

Example (JJ5SY3-10S3V-□) 2-position single (24 VDC) JSY3100-5U (2 sets) Manifold base (5 stations) JJ5SY3-10S3V-05D-C8

- 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.

 Prefix it to the part numbers of the valve, etc.
- · For the valve arrangement, the valve closest to the D side is considered the
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

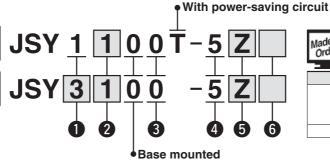
Internal Pilot

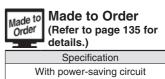
How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY1000 Series

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

0	Pilot valve individual exhaust

4 Rated voltage

5	24 VDC

∧ Caution

If the JSY3000/5000 series is to be continuously energised, please be sure to select the powersaving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135. For the JSY1000 series, only the power-saving circuit specification is available.

Type of actuation

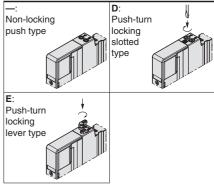
1	2-position	Single
2	2-position	Double
3		Closed centre
4	3-position	Exhaust centre
5		Pressure centre
Α	4	N.C./N.C.
В	4-position dual 3-port	N.O./N.O.
С	duai 3-poit	N.C./N.O.

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

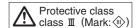
- * Select "U" or "Z" for the valve when the SI unit specification is positive common. Select "U" or "NZ" for the valve when the SI unit specification is ZBN (negative common).
- Only "Z" and "NZ" types are available for the JSY1000 series.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.

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 116 for base gasket and mounting screw part numbers.



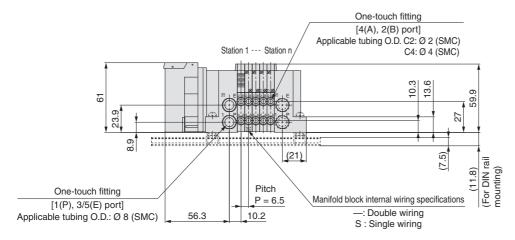


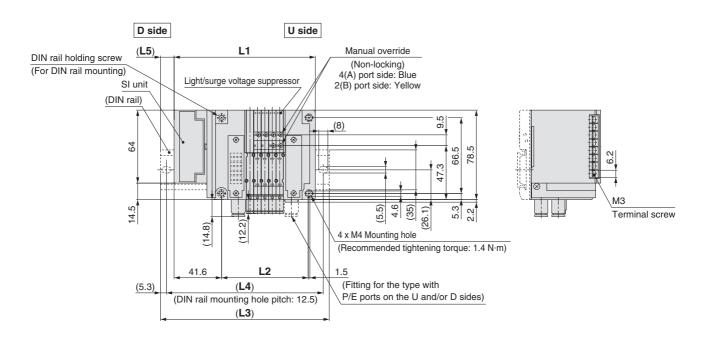
Type 10/Side Ported (Applicable to Ø 2 and Ø 4 fittings EX120

Dimensions: JSY1000 Series

JJ5SY1-10S3 - Stations P-C2 (D)







- * These figures show the "JJ5SY1-10S3V-05D-C4."
- * Refer to page 97 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 100 for dimensions.

L	.: Dir	nensior	าร							r	n: Stations
_				_				 	 		

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



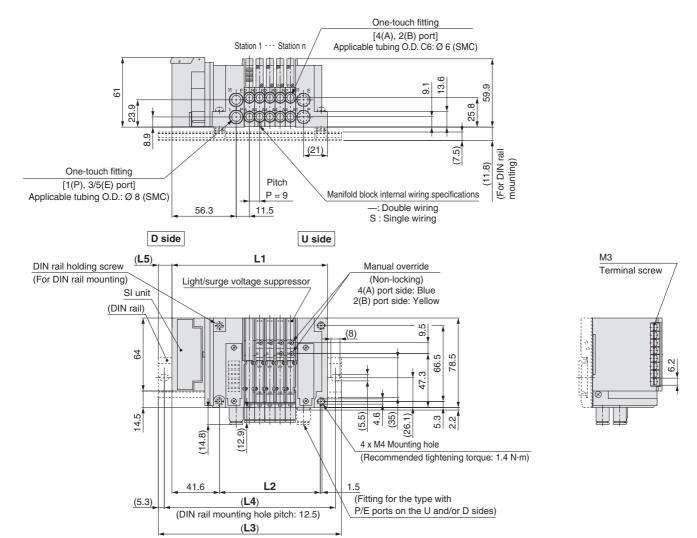
Puesin Connector Connecting Base JSY1000/3000/5000 Series

Type 10/Side Ported (Applicable to Ø 6 fittings)
EX120

Dimensions: JSY1000 Series

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





- $\ast\,$ These figures show the "JJ5SY1-10S3V-05D-C6."
- $\ast\,$ Refer to page 97 for dimensions of external pilot (Made to Order) and silencer.
- * When CM is selected for mixed A, B port size, refer to page 100 for dimensions.

L: Dim	nensior	ıs												r	n: Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

L	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



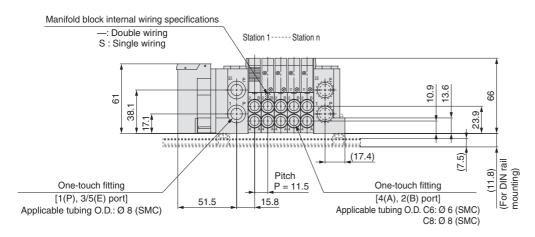
Type 10/Side Ported

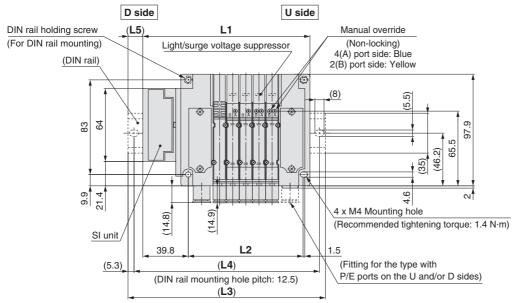
Dimensions: JSY3000 Series

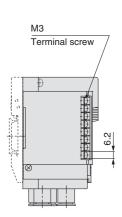
EX120

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









- $\ast\,$ These figures show the "JJ5SY3-10S3V-05D-C8."
- * Refer to page 98 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

Puesin Connector Connecting Base JSY1000/3000/5000 Series

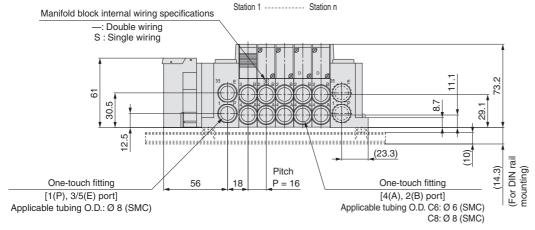
Type 10/Side Ported

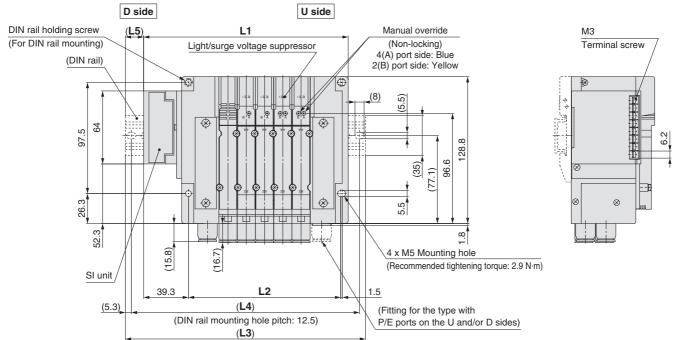
Dimensions: **JSY5000** Series

EX120

JJ5SY5-10S3 \square - Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{C10}}{\text{C12}}$ (D)







- * These figures show the "JJ5SY5-10S3V-05D-C12."
- * Refer to page 99 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	131.3	147.3	163.3	179.3	195.3	211.3	227.3	243.3	259.3	275.3	291.3	307.3	323.3	339.3	355.3
L2	85.5	101.5	117.5	133.5	149.5	165.5	181.5	197.5	213.5	229.5	245.5	261.5	277.5	293.5	309.5
L3	160.5	173	198	210.5	223	235.5	260.5	273	285.5	310.5	323	335.5	348	373	385.5
L4	150	162.5	187.5	200	212.5	225	250	262.5	275	300	312.5	325	337.5	362.5	375
L5	15	13	17	16	14	12	17	15	13	18	16	14	12	17	15



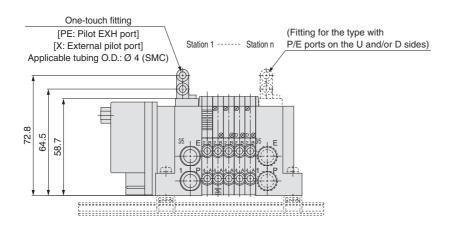
JSY1000/3000/5000 Series Common Dimensions

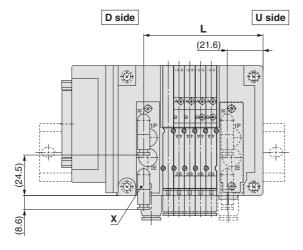
Type 10/Side Ported

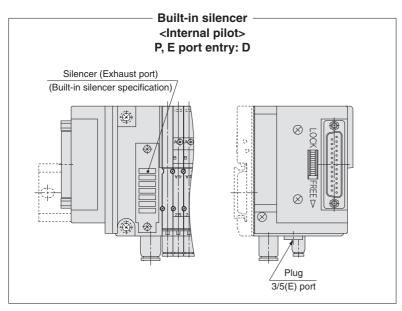
Dimensions: JSY1000 Series

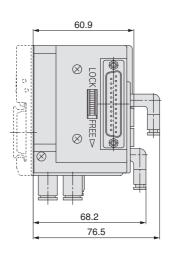
External Pilot, Built-in Silencer

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









Calculation formula for L dimensions

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

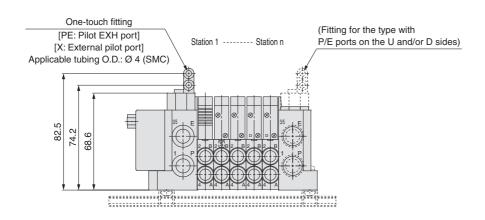
- n1: Number of 6.5 mm pitch manifold block stations (Applicable fitting: Ø 2, Ø 4)
- n2: Number of 9 mm pitch manifold block stations (Applicable fitting: Ø 6)
- * These figures show the "JJ5SY1-10F2-05DR-C4."

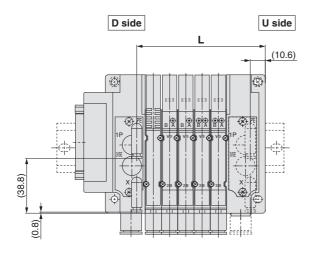
Type 10/Side Ported

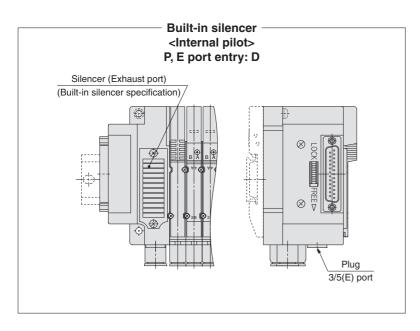
Dimensions: JSY3000 Series

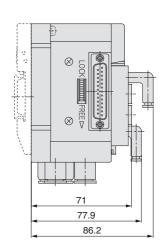
External Pilot, Built-in Silencer

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









Calculation formula for L dimensions L = 11.5 x n + 33.4 n: Manifold stations

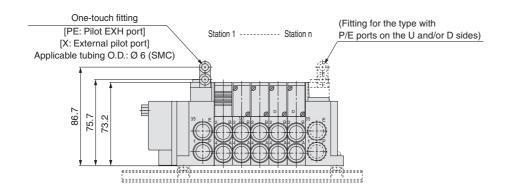
* These figures show the "JJ5SY3-10F2-05DR-C8."

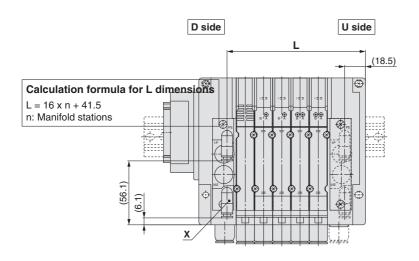
Type 10/Side Ported

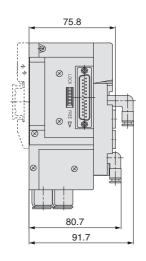
Dimensions: JSY5000 Series

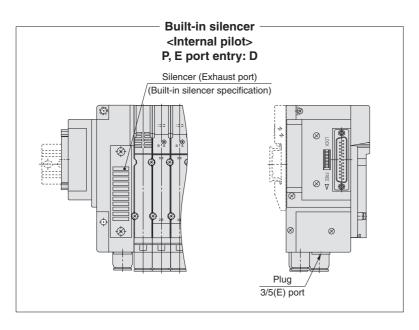
External Pilot, Built-in Silencer

JJ5SY5-10 \square - Stations $\stackrel{\text{U}}{\mathbb{R}}$ (S, R) - $\stackrel{\text{C10}}{\text{C12}}$ (D)









Calculation formula for L dimensions

 $L = 16 \times n + 41.5$ n: Manifold stations

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



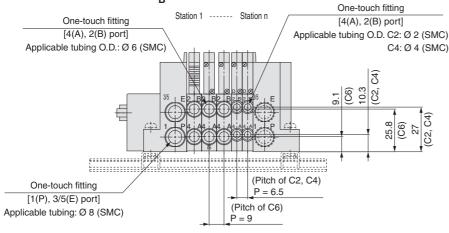
Common Dimensions JSY1000/3000/5000 Series

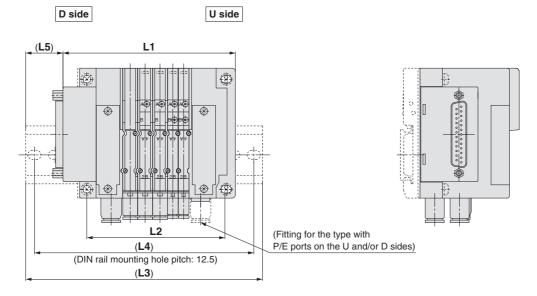
Type 10/Side Ported

Dimensions: JSY1000 Series

Mixed Size, Straight Port Type

JJ5SY1-10 - Stations D-CM





- Refer to page 97 for dimensions of external pilot and built-in silencer.
- Refer to pages 65 to 68, 79, and 80 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. 23, 24 D-sub connector (IP20/Compact type) : pp. 29, 30 Flat ribbon cable (IP40/Connector entry direction adjustable): pp. 32, 33 Flat ribbon cable (IP20/Compact type) : pp. 36, 37 Spring type terminal block box : pp. 45, 46 Terminal block box : pp. 49, 50 Lead wire : pp. 57, 58 EX600 : pp. 65 to 68 EX250 : pp. 79, 80

: pp. 87, 88 EX260 EX120 : pp. 93, 94

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.

 $L3 = 12.5 \times M + 23$

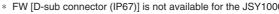
L4 = L3 - 10.5

L5 = (L3 - L1 + c) / 2

 $L6 = b \times n3 + d$

n1: Number of 6.5 mm pitch manifold block stations (Applicable fittings: Ø 2, Ø

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	_	_	_

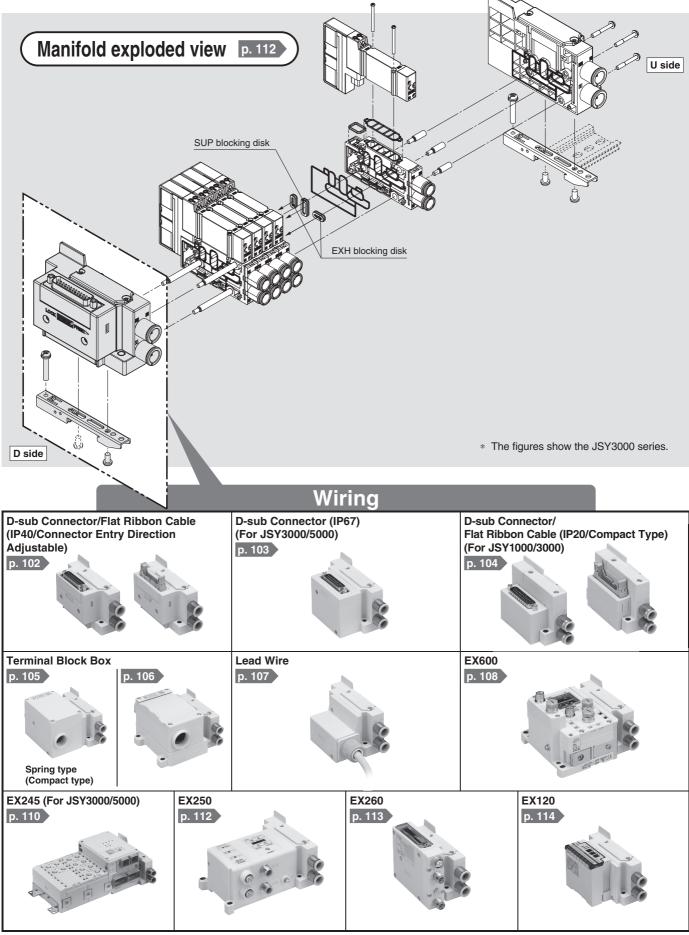




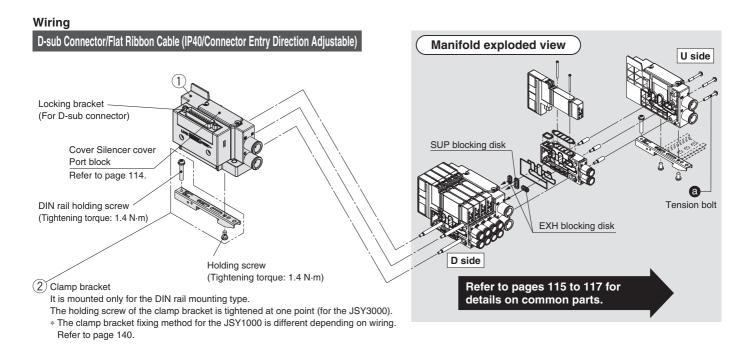
n2: Number of 9 mm pitch manifold block stations (Applicable fittings: Ø 6) * FW [D-sub connector (IP67)] is not available for the JSY1000.

n3: Number of I/O units or input block stations

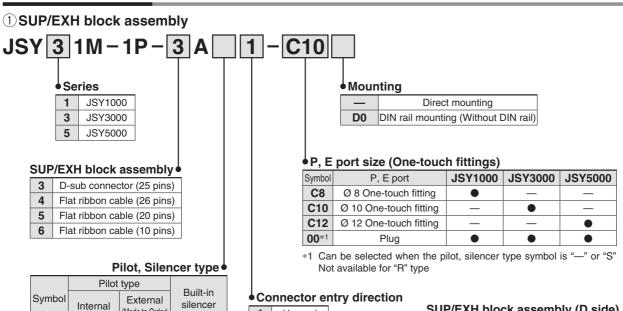
JSY1000/3000/5000 Series Type 10 Connector Connecting Base Manifold Exploded View



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



Manifold Parts Nos.



Upward

Lateral

2

(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

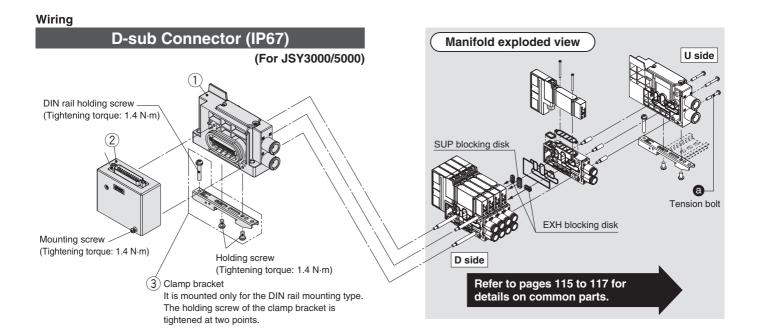
S

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

^{*} The part number is for 1 piece.

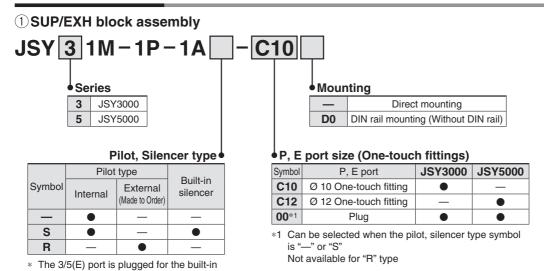
The 3/5(E) port is plugged for the built-in silencer type.

JSY3000/5000 Series



Manifold Parts Nos.

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>

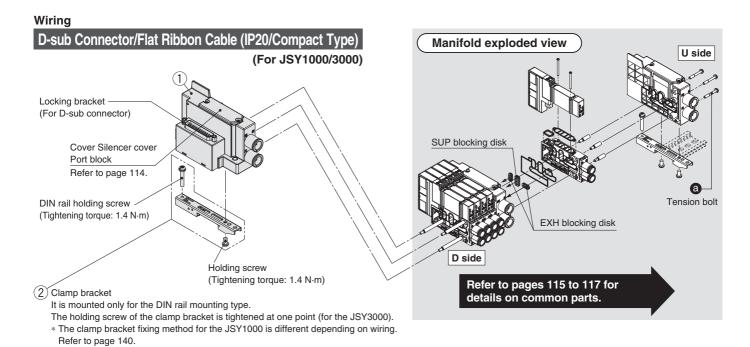
Part no.	Connector entry direction
SY30M-14-9A1	Upward
SY30M-14-9A2	Lateral

3 Clamp bracket

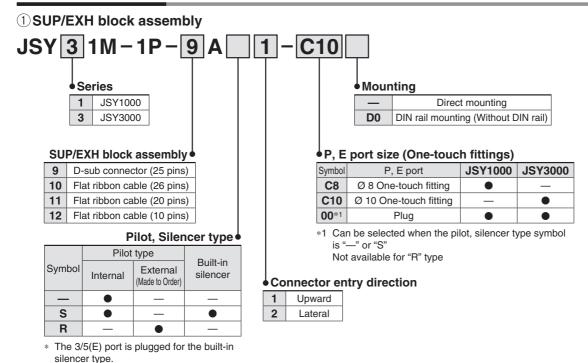
Series	Part no.
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

^{*} The part number is for 1 piece.

Connector Connecting Base Manifold Exploded View JSY1000/3000 Series



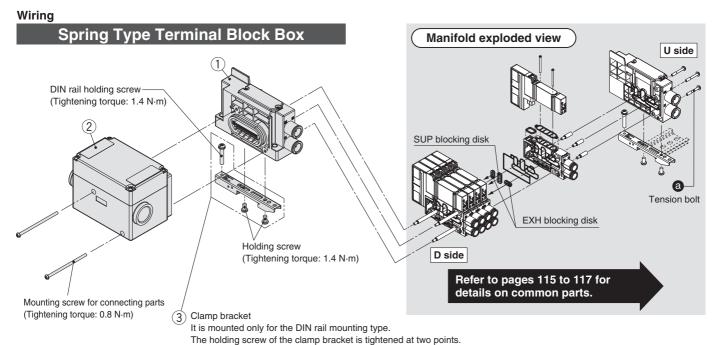
Manifold Parts Nos.



② Clamp bracket

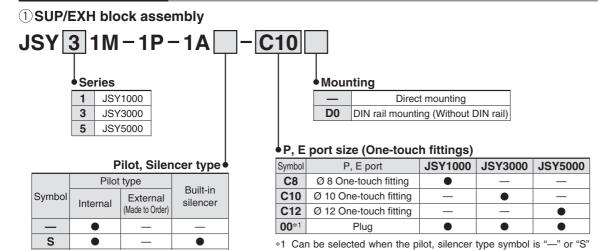
<u> </u>	
Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A

^{*} The part number is for 1 piece.



* The clamp bracket fixing method for the JSY1000 is different depending on wiring. Refer to page 140.

Manifold Parts Nos.



Not available for "R" type

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

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

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

2 Terminal block assembly

SY30M-130-1A

3 Clamp bracket

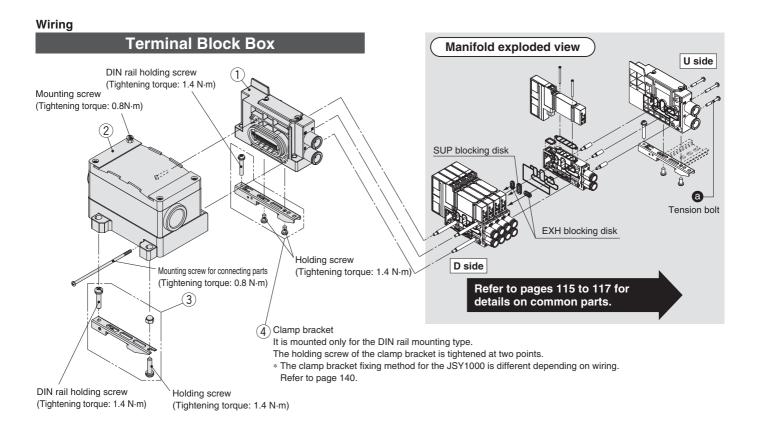
Series	Part no.
JSY1000	JSY11M-15P-1A
JSY3000	SY30M-15-1A
JSY5000	SY50M-15-1A

^{*} The part number is for 1 piece.



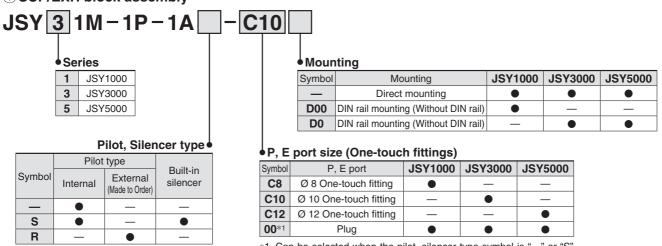
The 3/5(E) port is plugged for the built-in silencer type.

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



Manifold Parts Nos.





The 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
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

[

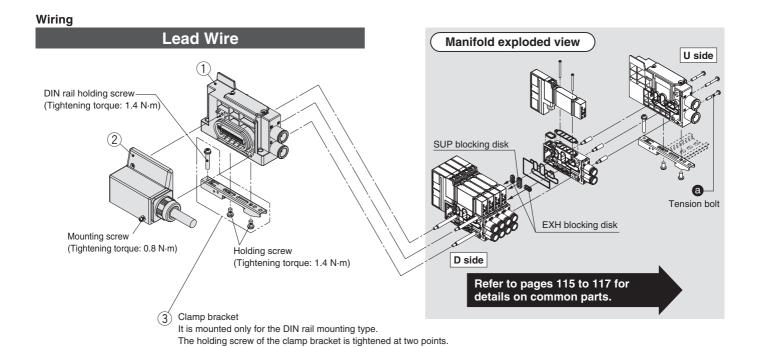
Series	Part no.
JSY1000	JSY11M-15P-2A
JSY3000 SY30M-15-1A	
JSY5000	SY50M-15-1A

^{*} The part number is for 1 piece.



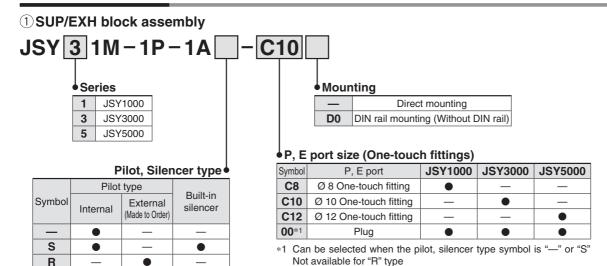
^{*1} Can be selected when the pilot, silencer type symbol is "--" or "S" Not available for "R" type

Refer to page 140.



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

Manifold Parts Nos.

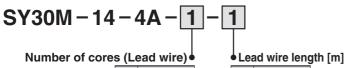


The 3/5(E) port is plugged for the built-in silencer type.

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

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

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



_	- (=		
	Symbol	Number of cores	
	1	34	
	2	17	
	3	9	

2 Lead wire connector block assembly

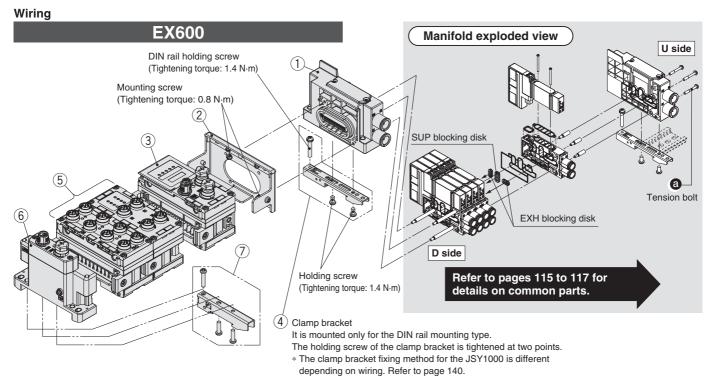
Symbol	Length	
1	0.6	
2	1.5	
3	3	

3 Clamp bracket

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

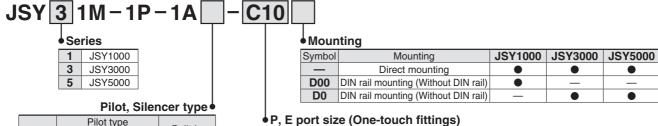
^{*} The part number is for 1 piece.

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



Manifold Parts Nos.

1) SUP/EXH block assembly



P, E port

Ø 8 One-touch fitting

Ø 10 One-touch fitting

Ø 12 One-touch fitting

Plug

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

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

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

2 Valve plate

EX600 – ZMV2

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

4 Clamp bracket

C8

C10

C12

00*1

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

* The part number is for 1 piece.

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

JSY1000 JSY3000 JSY5000

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

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

③ EX600 SI unit

EX600-SPR

Protocol •

Symbol	Description
PR	PROFIBUS DP
DN	DeviceNet™
MJ	CC-Link
EN	EtherNet/IP™
EC	EtherCAT
PN	PROFINET

Version

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

Output type

Symbol	Description	Condition
1	PNP (Negative common)	Can be selected for all protocols except EN
2	NPN (Positive common)	Can be selected for all protocols except EN
3	PNP (Negative common)	Can be selected in the case of EN/PN*1
4	NPN (Positive common)	Can be selected in the case of EN/PN*1

*1 For EN: 2 ports EtherNet/IP™ product For PN: IO-Link master compatible product

(Wireless compatible)

EX600 - W EN 1

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

Output type

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



JSY1000/3000/5000 Series

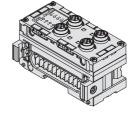
Manifold Parts Nos.

5 EX600 digital input unit

EX600-DX|P|B

Input type Symbol Description Number of inputs, open-circuit detection, and connector

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)
F	16	No	Spring type terminal block (32 pins)





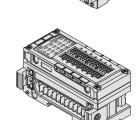
EX600-DY PB

Output type

Number of outputs and connector

Symbol	Description
Р	PNP
N	NPN

Symbol	Number of outputs	Connector
В	8	M12 connector (5 pins) 4 pcs.
E	16	D-sub connector (25 pins)
F	16	Spring type terminal block (32 pins)



5 EX600 digital input/output unit

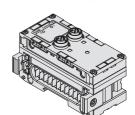
EX600-DM P

Input/Output type

Number of inputs/outputs and connector

Symbol	Description
Р	PNP
N	NPN

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



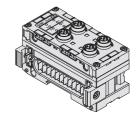
5 EX600 analogue input/output unit

EX600-AX

Number of input channels and connector

Symbol	Description	
AX	Analogue input	
AY	Analogue output	

Symbol Number of input channels		Connector	
Α	2 channels	M12 connector (5 pins) 2 pcs.	



5 EX600 analogue input/output unit

EX600-AMB

Number of input/output channels and connector

Connector

M12 connector

(5 pins) 4 pcs.

EX600-ED2-□

	Training to the part of the pa				
Symbol Number of input channels		Number of output channels	Connector		
В	2 channels	2 channels	M12 connector (5 pins) 4 pcs.		

(5) EX600 IO-Link master unit

EX600-I



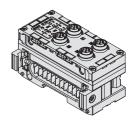
Port specifica

ıtion •	Number	of ports	and	connecto
---------	--------	----------	-----	----------

Symbol	Description	Symbol	Number of po
Α	Port class A	В	4 norto
В	Port class B		4 ports

∕∆Caution

The applicable SI unit models are the PROFINET compatible EX600-SPN3 and EX600-SPN4. While there is also an EtherNet/IPTM compatible made-toorder specification, the EX600-SEN3-X80, the manifold



6 EX600 end plate

EX600-ED

Power connector

1 0 11 0 1 1 1 1 1 1 1 1			
Symbol	Connector		
2	M12 power supply connector, B-coded		
3	7/8 inch power supply connector		
4	M12 power supply connector IN/OUT,		
-+	A-coded, Pin arrangement 1		
5	M12 power supply connector IN/OUT,		
5	A-coded, Pin arrangement 2		

* The pin layout for the "4" and "5" pin connectors is different.



will also need to be made to order in this case.

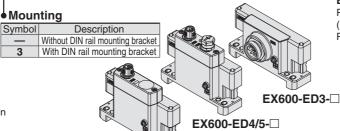


EX600-ZMA3

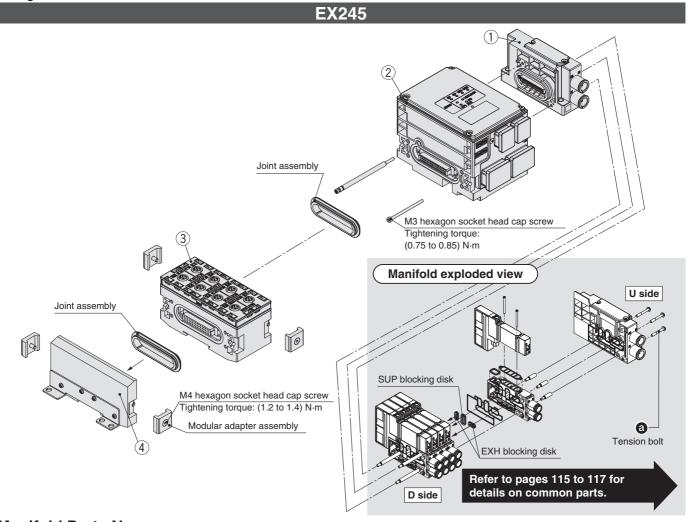


Round head screw with washer (M4 x 20) 1 pc.

P-tight screw (4 x 14) 2 pcs.







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	
_	•	_	_	
S	•	_	•	
R	1	•	_	

^{*} The 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	Ø 10 One-touch fitting	•	_
C12	Ø 12 One-touch fitting	_	•
00*1	Plug	•	•

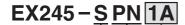
^{*1} Can be selected when the pilot, silencer type symbol is "--" or "S" Not available for "R" type

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

Accessories	JSY3000	JSY5000
Tension bolt	None*1	3 pcs.

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

2 EX245 SI unit











Connector type

	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. 7/8 inch connector (5-pin, Socket): 1 pc.	

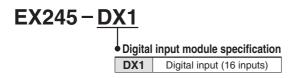




JSY3000/5000 Series

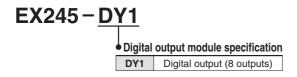
Manifold Parts Nos.

③ EX245 digital input module



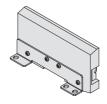


③ EX245 digital output module





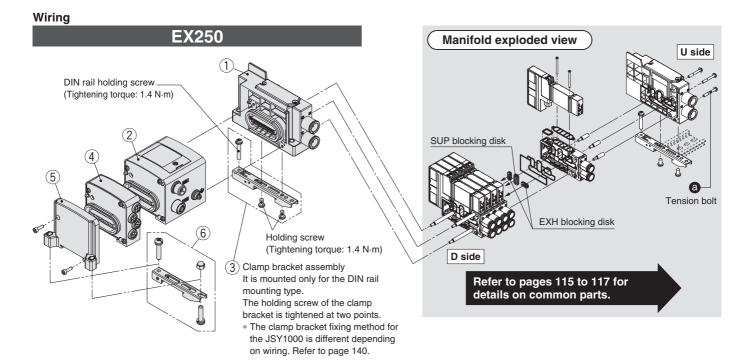
4 EX245 end plate



^{*} Refer to page 73 for manifold valve part numbers.

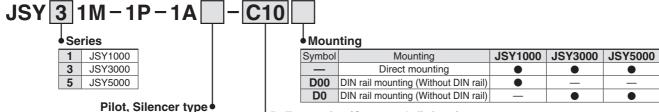
Bracket 3 to 5 correspond to the mounting hole pitch of each manifold valve.





Manifold Parts Nos.

1) SUP/EXH block assembly



Symbol

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

C8 Ø 8 One-touch fitting C10 Ø 10 One-touch fitting

P, E port

◆P, E port size (One-touch fittings)

C12 Ø 12 One-touch fitting 00*1 Plug *1 Can be selected when the

JSY1000

Not available for "R" type

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

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

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

JSY3000 JSY5000

2 EX250 SI unit

EX250-S DN1

• Communication protocol

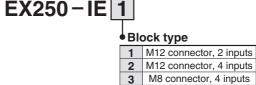
DN1	DeviceNet™ (Negative common)
PR1	PROFIBUS DP (Negative common)
AS3	AS-Interface (8 in/8 out, 31 slave modes, 2 isolated common type) (Negative common)
AS5	AS-Interface (4 in/4 out, 31 slave modes, 2 isolated common type) (Negative common)
AS7	AS-Interface (8 in/8 out, 31 slave modes, 1 common type) (Negative common)
AS9	AS-Interface (4 in/4 out, 31 slave modes, 1 common type) (Negative common)
CA1A	CANopen (Negative common)
EN1	EtherNet/IP™ (Negative common)

3 Clamp bracket

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

^{*} The part number is for 1 piece.

4 Input block



5 EX250 end plate assembly

EX250 - EA1

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

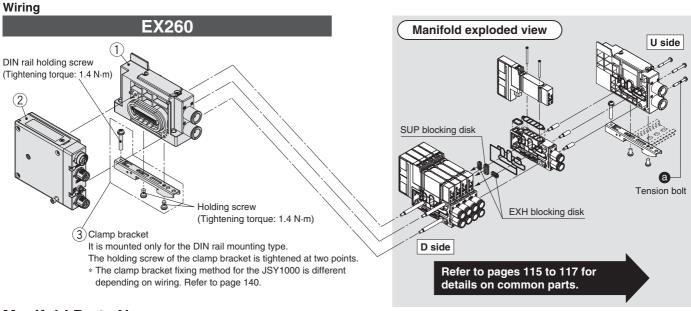
SY30M-15-3A

* The part number is for 1 assembly.

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

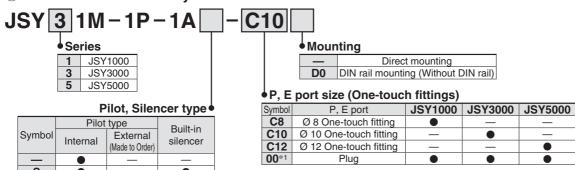
pilot, silencer type symbol is -" or "S"

JSY1000/3000/5000 Series



Manifold Parts Nos.

1) SUP/EXH block assembly



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

Not available for "R" type

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

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

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

② EX260 SI unit (Fieldbus and Industrial Ethernet)

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™	1 -	Sink/NPN (Positive common)	M12	QA	EC2	EtherCAT		Sink/NPN (Positive common)	M12	DA
DN3	Devicemen	16	Source/PNP (Negative common)	IVIIZ	QBN	EC3	EllielCAT	16	Source/PNP (Negative common)	IVITZ	DBN
DN4		10	Sink/NPN (Positive common)		QB	EC4	16	10	Sink/NPN (Positive common)		DB
PR1		32	Source/PNP (Negative common)		NAN	PN1		32	Source/PNP (Negative common)		FAN
PR2		32	Sink/NPN (Positive common)	M12	NA	PN ₂	PROFINET		Sink/NPN (Positive common)	M12	FA
PR3		16 32	Source/PNP (Negative common)	IVI I Z	NBN	PN3	PN3	16	Source/PNP (Negative common)		FBN
PR4	PROFIBUS DP		Sink/NPN (Positive common)		NB	PN4			Sink/NPN (Positive common)		FB
PK5	FNOFIDUS DF		Source/PNP (Negative common)	D-sub*1	NCN	EN1	N1	32	Source/PNP (Negative common)		EAN
PR6			Sink/NPN (Positive common)		NC	EN2	EtherNet/IP™		Sink/NPN (Positive common)		EA
PR7			Source/PNP (Negative common)	D-Sub	NDN	EN3	Ellielivel/iF	16	Source/PNP (Negative common)	IVITZ	EBN
PR8		10	Sink/NPN (Positive common)		ND	EN4		10	Sink/NPN (Positive common)		EB
MJ1		32	Source/PNP (Negative common)		VAN	PL1	Ethernet	32	Source/PNP (Negative common)	M12	GAN
MJ2	CC-Link	32	Sink/NPN (Positive common)	M12	VA	PL3	POWERLINK	16			GBN
MJ3	OO-LIIK	16	Source/PNP (Negative common)	IVITZ	VBN	IL1	IO-Link	32	Source/PNP (Negative common)	M12	KAN
MJ4		16	Sink/NPN (Positive common)		VB						

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

EX260 SI Unit (Safety Communication)

EX260-F PS1

Communication protocol

Symbol	Protocol	Number of outputs	SI unit output polarity	Communication connector	Manifold symbol
PS1	PROFIsafe	32	Source/PNP (Negative common)	M12	FPN

3 Clamp bracket

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

^{*} The part number is for 1 piece.

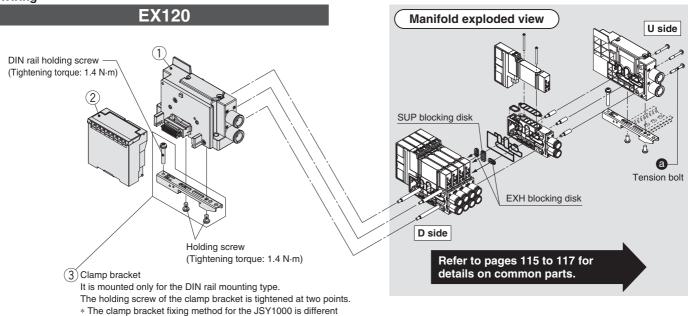


^{*1} Can be selected when the pilot, silencer type symbol is "—" or "S"

depending on wiring. Refer to page 140.

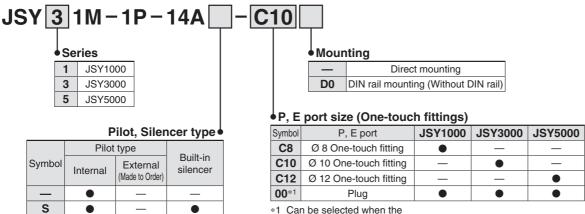
Connector Connecting Base Manifold Exploded View JSY1000/3000/5000 Series





Manifold Parts Nos.





The 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
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	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	

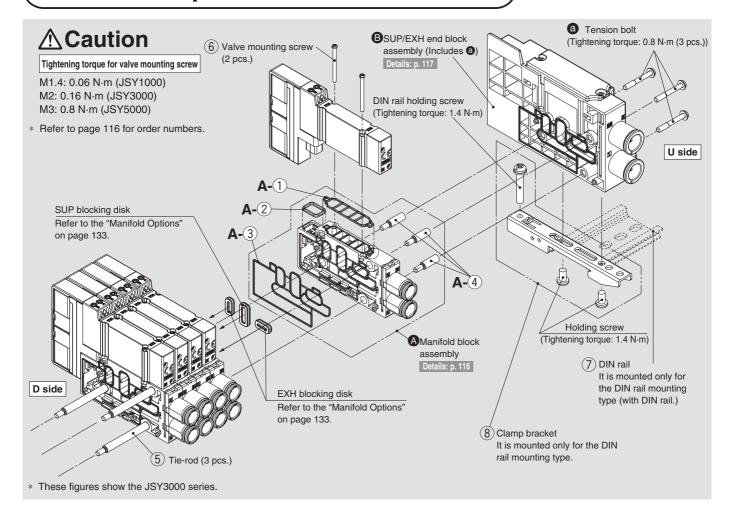
^{*} The part number is for 1 piece.



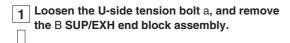
^{*1} Can be selected when the pilot, silencer type symbol is "--" or "S" Not available for "R" type

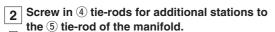
JSY1000/3000/5000 Series

Manifold Exploded View [Common Parts]



Type 10: How to Increase Connector Type Manifolds





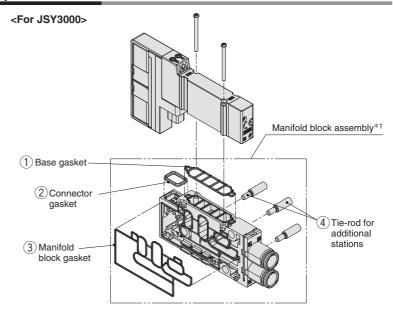
Screw them in until there is no gap between the tie-rods.

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

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

⚠ Caution

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



*1 Manifold block assembly

	ioid biook docoiiibi	,	
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 116 for ordering single unit.

 \ast ② Connector gasket is not applicable to the JSY1000.



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

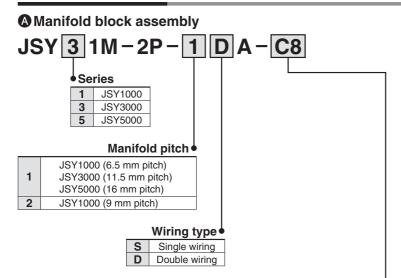
No.		Description	JSY ⁻	1000	JSY3000	JSY5000	Note	
INO.		Description	6.5 mm pitch	9 mm pitch	J513000	J515000	Note	
A -①	Base gasket (for connector connecting base)		JSY11N	1-9P-1A	JSY31M-9P-1A	JSY51M-9P-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)	
A- ②	걸	Connector gasket	_		SX3000	0-146-2	Supplied individually	
A- ③	Manifold block gasket JSY11M-9P-2 Tie-rod for JSY11M-49P-1-1-A JSY11M-49P-2-1-A J		JSY31M-9P-2	JSY51M-9P-2	Supplied individually			
A- 4	Mai	Tie-rod for	JSY11M-49P-1-1-A	JSY11M-49P-2-1-A	JSY31M-49P-1-1-A	SV2000-55-2A-A	3 pcs. supplied	
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	
9			(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	⑦ DIN rail			VZ1000-11-1-□		VZ1000-11-4-□	Refer to page 131.	
8		p bracket*2 onnector 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.

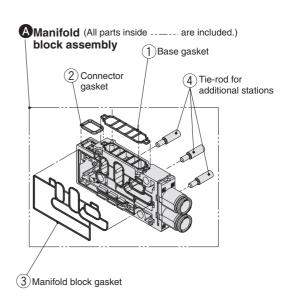
Table. JSY1000 series clamp bracket

	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 fittings)				fittings)
Symbol	A, B port	JSY1000		JSY3000	JSV5000
Cyllibol	A, B port	6.5 mm pitch	9 mm pitch	0313000	0313000
C2	Ø 2 One-touch fitting	•	_	_	_
C4	Ø 4 One-touch fitting	•	_	_	_
C6	Ø 6 One-touch fitting	_	•	•	_
C8	Ø 8 One-touch fitting	_		•	_
C10	Ø 10 One-touch fitting	_	_	_	•
C12	Ø 12 One-touch fitting	_		_	•



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

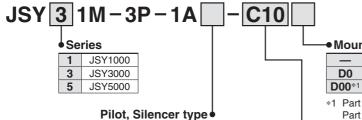


^{*2} Part number of the clamp bracket for the JSY1000 is different depending on the manifold wiring. Refer to the table below. Refer to page 140 for assembly.

JSY1000/3000/5000 Series

Manifold Parts Nos.

SUP/EXH end block assembly

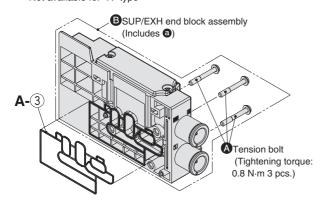


	Pilot	Built-in	
Symbol	Internal	External (Made to Order)	silencer
_	•	_	_
S		_	•
R	_	•	_

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

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

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



Mounting

_	Direct mounting	
D0	DIN rail mounting (Without DIN rail)	
D00 *1	DIN rail mounting (Without DIN rail)	

*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

	Table 1. 031 1000 series blivitali illouliting				
Symbol		Wiring			
D0 Flat ribbon Spring type Lead wire (EX260 (S		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.

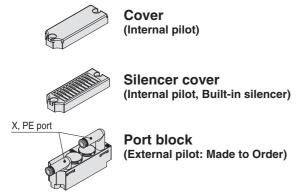
® Clamp bracket

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

- The part number is for 1 piece.
- Part number of the JSY1000 is different depending on the manifold

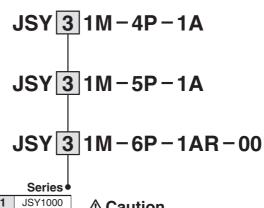
Refer to the Table 1. JSY1000 series DIN rail mounting for selecting a clamp bracket.

■ 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



JSY3000 JSY5000

- 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.





Plug-in Connector Connecting Base

Vacuum Unit ZK2 Combination Manifold

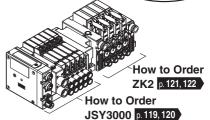
'ype 10

SY3000 Series

Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to page 120 for an order example.

Internal Pilot

How to Order Manifolds



Valve Manifold

Series

JSY3000

Connector type, Wiring, Number of cores. SI unit

realistics of cores, or and				
Symbol	Type		Page	
F		IP40		
FW	D-sub connector	IP67		
FC	(25 pins)	IP20		
Р		26 pins		
PG	Flat ribbon cable	20 pins	21	
PH		10 pins		
PC		26 pins		
PGC	Flat ribbon cable Compact type	20 pins		
PHC	Compact type	10 pins		
TC	Spring type terminal block box		43	
Т	Terminal block	box	43	
L1		34 cores		
L2	Lead wire	17 cores	55	
L3		9 cores		
S6□		EX600	63	
S□	Serial	EX245	73	
S□	transmission	EX250	77	
S□	110110111051011	EX260	83	
S3□		EX120	91	

* Refer to the pages shown in the table above for details.

2 Type

Side ported

Connector entry direction (F□/P□)

Symbol	Type
1	Upward
2	Downward

· Lead wire length (L1/L2/L3)

Symbol	Type	
1	0.6 m	
2	1.5 m	
3	3 m	

- SI unit output polarity, End plate type (S6□) Refer to page 63.
- With or without I/O modules (S□) Refer to page 73.
- · Input block stations (S□) Refer to page 77.

ЫI/O unit stations (S6□) Refer to page 63.

Number of I/O modules (S□) Refer to page 73.

Input block type (S□) Refer to page 77.

P, E port entry, SUP/EXH block assembly

Symbol	P, E port entry	SUP/EXH block assembly	Application
U	U side (2 to 10 stations)		
D	D side (2 to 10 stations)	Internal pilot	All
В	Both sides (2 to 24 stations)		
US	U side (2 to 10 stations)	Internal pilot,	D-sub connector (F□), Terminal block box (TC, T),
DS	D side (2 to 10 stations)	Built-in	Flat ribbon cable (P□), Lead wire (L□)
BS	Both sides (2 to 24 stations)	silencer	EX260(S□)/EX245(S□)/EX120(S3□)
С	U side (2 to 10 stations)	Internal pilot,	EV000(CC□)
E	D side (2 to 10 stations)	Built-in EX250(S□)	EX600(S6□)
F	Both sides (2 to 24 stations)		LA230(3□)

- * The 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 into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 135.

6 Valve stations

· For 32 output points (TC/L1/S6□/S□)

Symbol	Stations	Note	
02	2 stations		
:	i	Double wiring*1	
15	15 stations		
02	2 stations	Specified layout*2	
:	:	(Up to 30 solenoids	
24	24 stations	available)	

· For 20 output points(T)

Symbol	Stations	Note	
02	2 stations		
:	:	Double wiring*1	
09	9 stations		
02	2 stations	Specified layout*2	
:	:	(Up to18 solenoids	
18	18 stations	available)	

· For 16 output points (L2/S /S3)

	, ,			
Symbo	Stations	Note		
02	2 stations			
:	:	Double wiring*1		
07	7 stations			
02	2 stations	Specified layout*2		
:	:	(Up to 14 solenoids		
14	14 stations	available)		

· For 24 output points

(F/FW/FC/P/PC)

	Symbol	Stations	Note
	02	2 stations	
	:	:	Double wiring*1
	11	11 stations	
1	02	2 stations	Specified layout*2
3		:	(Up to 22 solenoids
	22	22 stations	available)

Combination manifold

· For 18 output points (PG/PGC)

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

For 8 output points (PH/PHC/L3)

	Symbol	Stations	Note
	02	2 stations	
:1	:		Double wiring*1
	03	3 stations	
<u>*2</u>	02	2 stations	Specified layout*2
ds	:	:	(Up to 6 solenoids
	06	6 stations	available)

- *1 Double wiring: 2 -position single, double, 3 -position, and 4-position valves can be used on all manifold stations. The use of a 2 -position single solenoid will result in an unused control
- *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.)
- The total number of solenoids for the valve and ejector should not exceed the number of output points. (Number of ejector solenoids: 2 per station)
- This also includes the number of blanking plates.
- For models without an SI unit (S 0), note the number of output points of the SI unit that will be mounted.

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

Symbol	A, B port	P, E port
C6	Straight Ø 6	
C8	Straight Ø 8	Ø 10
CM*1	Straight port, mixed sizes	

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

9 Mounting

	<u> </u>		
Symbol	Mounting		
_	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		

Refer to page 139 for details on securing the DIN rail mounting type manifold.



Plug-in Connector Connecting Base Vacuum Unit ZK2 Combination Manifold JSY3000 Series

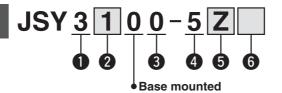
Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to the bottom of this page for an order example.

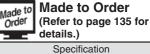
Internal Pilot

How to Order Valves (With mounting screw)

Refer to page 13 for valve specifications.

JSY3000 Series





With power-saving circuit (Continuous duty type): 0.1 W (JSY3000) External pilot

Series

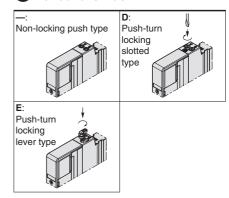
4 Rated voltage

	,,
3	JSY3000

Type of actuation

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

6 Manual override



3 Pilot valve exhaust method

0	Pilot valve individual exhaust

24 VDC

5 Light/surge voltage suppressor and common specification

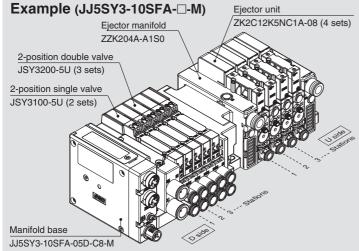
Symbol	With light	Surge voltage suppressor	Common specification
U			Non-polar
Z	•	•	Positive common
NZ			Negative common

- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 138.
- For fieldbus compatible manifolds, ensure that the output polarity of the SI unit matches the common specification of the valve. Note that the common specification of the ejector is non-polar.

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 116 for base gasket and mounting screw part numbers.

How to Order Manifold Assembly



Refer to pages 121 and 122 for how to order ZK2 vacuum units.

- JJ5SY3-10SFA-05D-C8-M ··· 1 set (Type 10 5-station manifold base part no.) * JSY3100-5U2 sets (2-position single valve part no.)
- * JSY3200-5U3 sets (2-position double valve part no.) * ZZK204A-A1S0-----1 set (Ejector manifold part no.)
- * ZK2C12K5NC1A-08.....4 sets (Ejector unit part no.)
 - The asterisk denotes the symbol for the assembly.
- Prefix it to the part numbers of the ejector manifold, valve, etc.
- For the valve and ejector arrangement, the valves closest to the D side are considered the 1st stations respectively.
- Under the manifold part number, state the valves, ejector manifold, and ejector units to be mounted in order starting with the 1st station as shown in
- · Complex exhaust and individual port exhaust cannot be mixed in the ejector
- · If the arrangement becomes too complicated, specify the details on a manifold specification sheet.

If the product is to be continuously energised, please be sure to select the power-saving circuit (continuous duty type) specification. Refer to "Made to Order" on page 135.



JSY3000 Series

Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to page 120 for an order example.

How to Order Manifolds



1 Stations*1

Symbol	Stations	,	
01	1 station		
02	2 stations		
i	:		
08	8 stations		

*1 For adequate performance, the number of stations that can be operated simultaneously depends on the nozzle diameter. For details, refer to the ZK2□A series catalogue.

2 System/Port

_	,	_
Symbol	System	Port
Α	Ejector system	Ø 8 (Common PV)

3 Exhaust

U	Extidust						
Symbol	Exhaust	Selectable single unit number					
1	Complex exhaust*2	ZK2C Direct exhaust End plate exhaust					
2	Individual exhaust	ZK2F, ZK2H					

*2 Combination of direct exhaust and end plate exhaust from each station

4 Supply valve and release valve wiring*3

Symbol	Wiring	Selectable wiring for manifold (Refer to "How to Order Ejectors" on page 122.)			
		C C1			
S0	Centralised wiring	• •			

*3 Individual wiring is specified for pressure switches for vacuum and sensors.

Option*4

Symbol	Туре					nanifold " on pag	
			J	K	L	Р	W
_	Without option	•	•	•	_	_	•
В	With DIN rail mounting bracket*5	•	•	•	_	_	•
D	With common release pressure supply (PD) port	•	•	•	_	◎*6	•
L	Manifold individual supply specification	•	•	•	⊚*6	_	•

- *4 When more than one option is selected, list the option symbols in alphabetical order. (Example -BD)
- *5 Be sure to select the DIN rail mounting for the mounting method of the valve manifold.
- *6 When option "D" is selected, select option "P" for the single unit for manifold. When option "L" is selected, select option "L" for the single unit for manifold. (

 must be selected.)
- * For details, refer to "Optional Specifications/Functions/Applications" below.

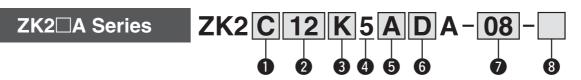
Optional Specifications/Functions/Applications

Symbol			Туре		Function/Application
E		Screwdriver operation type long lock nut		Screwdriver operation type long lock nut	Used when the port position is close to the manifold's individual supply and needle adjustment is difficult
J	Vacuum break flow adjusting needle	Round lock nut		Lock nut	Thicker than the standard hexagon type More suitable for hand tightening The round lock nut improves operability when the manifold or exhaust port type is used.
K		Screwdriver operation type		Vacuum break flow adjusting needle	· The slotted type allows for fine adjustment when the manifold or exhaust port type is used.
L	Manifold individ			Individual supply port	· For adjusting the manifold's supply pressure and the vacuum pressure reached by each ejector individually
Р	With manifold of pressure suppl	common release y (PD) port			· When selecting option "D" (with common release pressure supply (PD) port), a pressure which is different from the common PV can be supplied to the common PD.
w	With exhaust ir prevention valv			Exhaust interference prevention valve	· When ejectors are operated individually, exhausted air may flow backward from the V ports of ejectors that are turned off. The exhaust interference prevention valve prevents this backflow.

Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to page 120 for an order example.

For ejector specifications, refer to the ZK2 \square A series in the **Web Catalogue**.

How to Order Ejectors



Body/Exhaust type

	ouy, =xiiaac	,,				
Symbol	Body	Exhaust type				
С		Complex exhaust*1 End plate exhaust	aust			
F	For Manifold		Individual port exhaust			
Н		High-noise reduction silencer exhaust	e reduction xhaust			

*1 Combination of direct exhaust and end plate exhaust from each station

2 Nominal nozzle size

Symbol	Nominal nozzle size			
07	Ø 0.7			
10	Ø 1.0			
12	Ø 1.2			
15	Ø 1.5			

* Refer to the ZK2□A series catalogue for the standard supply pressure per nozzle diameter.

3 Combination of supply valve and release valve

Cumbal	Supply	/ valve	Release valve	
Symbol N.C.		Self-holding	N.C.	
K	•	_	•	
J	•	_	_	
R	_	● *2	•	

*2 Supply valve maintains vacuum by energization (20 ms or more). Stopping the vacuum turns on the release valve.

Rated voltage (Supply valve/Release valve)

$\overline{}$	- 111 /		_
Symbol		Voltage	
5		24 VDC	7

5 Pressure switch for vacuum/Pressure sensor

		-		Spe	cifications	
Symbol	Type	Pressure range [kPa]	NPN	PNP	With unit selection	
		range [ki a]	2 ou	tputs	function*3	
Α			•	_	•	
В	for	0 to -101	•	_	None (SI unit only)	
С	5 _	0 10 - 10 1	_	•	•	
D	swi		_	•	None (SI unit only)	
E	Pressure switch for vacuum		•	_	•	
F	essi 1	-100 to 100	•	_	None (SI unit only)	
Н	Pre	-100 10 100	_	•	•	
J			_	•	None (SI unit only)	
Р	Pressure	0 to -101	Analogue output 1 to 5 V			
Т	sensor	-100 to 100				
N	Without p	Without pressure switch for vacuum/pressure sensor				

^{*3} The unit for the type without the unit selection function is fixed as kPa.

6 Connector

(Supply valve/Release valve/Pressure switch for vacuum)

Symbol	For supply valve/ release valve	For pressure switch for vacuum:	Pressure sensor assembly: 3 m	Note	
Symbol	Centralised wiring specification (Plug-in)	2 m (Lead wire with connector)	(With lead wire)	Note	
С	•		•	Cannot be selected when 5 is N	
C1	•	None		Cannot be selected when 6 is P or T	

8 Option*4 (For details on the Function/Application, refer to page 121.)

Symbol		T	уре	Note
_	Without o	ption	_	
E	k flow edle	Screwdriver operation type long lock nut	Screwdriver operation type long lock nut	Cannot be selected when 3
J	/acuum break flow adjusting needle	Round lock nut	Lock nut	is J Can be selected only for the
К	Vacu adjı	Screwdriver operation type	Vacuum break flow adjusting needle	combination of J and K
L	Manifold individual supply specification*5			_
Р		ifold common rele supply (PD) port	Cannot be selected when 3 is J	
w	With exha	aust interference n valve	Exhaust interference prevention valve	When J is selected for ⑤ , install the release valve or vacuum breaker in the middle of the vacuum piping.

- *4 When more than one option is selected, list the option symbols in alphabetical order. (Example -EL)
- *5 When F or H is selected for **1** and L is selected for the option, the space for adjusting the needle is reduced. Products which can be operated more easily can be specified by option E or K.

Vacuum (V) port

_	
Symbol	Vacuum (V) port
06	Ø6
ΛR	Ø 8



JSY3000 Series

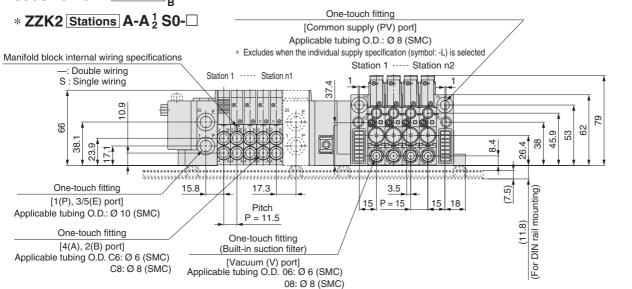
Type 10/Side Ported

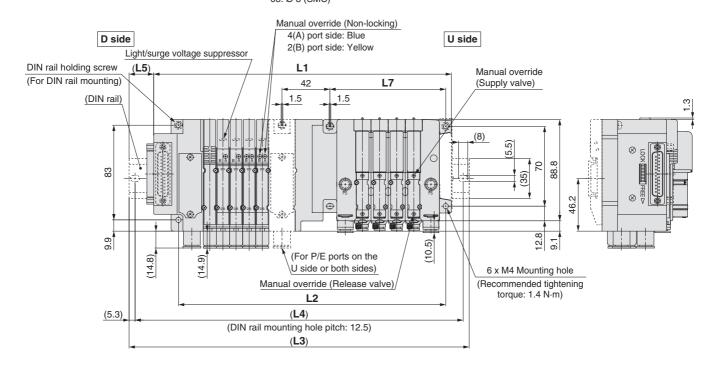
Dimensions: JSY3000 Series

Vacuum Unit ZK2 Combination Manifold

JJ5SY3-10 \square - Stations $\stackrel{\text{U}}{\text{P}}$ -M

For details on ejectors, refer to the ZK2 A series in the Web Catalogue.





- * Refer to page 125 for dimensions of external pilot and built-in silencer.
- Refer to pages 69, 70, and 81 for dimensions when L6 and b are used for the calculation formula.
- Refer to the reference pages shown in the table to the right for dimensions that are not specified in each wiring specification.

Calculation	formula for dimensions
L1 = 11.5 x n	l + 15 x n2 + a + b x n3 + e
L2 = 11.5 x n ⁻¹	l + 15 x n2 + e + 93.7
M = (L1 + c)/12	.5 + 1 Decimal fractions are truncated.
L3 = 12.5 x M	+ 23
L4 = L3 - 10.	5
L5 = (L3 – L1	+ c)/2
$L6 = b \times n3 +$	82
L7 = 15 x n2 -	+ 41.5

- n1: Number of valve stations of the JSY3000
- n2: Number of ejector stations of the ZK2A
- n3: Number of I/O units or input block stations

		Coefficier	nt	Reference
	а	b	С	page
D-sub connector (IP40/Connector entry direction adjustable)	120.4	_	6.1	25
D-sub connector (IP67)	135.2	_	4.5	27
D-sub connector (IP20/Compact type)	133.4	_	6.1	31
Flat ribbon cable (IP40/Connector entry direction adjustable)	120.4	_	6.1	34
Flat ribbon cable (IP20/Compact type)	114.9	_	11.2	38
Spring type terminal block box	172.7	_	_	47
Terminal block box	194	_	_	51
Lead wire	141.7	_	_	59
Serial transmission: EX600 (M12 connector)	186.2	47	_	69
Serial transmission: EX600 (7/8 inch connector)	202.7	47	_	70
Serial transmission: EX245	217.8	54	_	75
Serial transmission: EX250	186.2	21	_	81
Serial transmission: EX260		_	_	89
Serial transmission: EX120	138.5	_	_	95
0 (": 1				

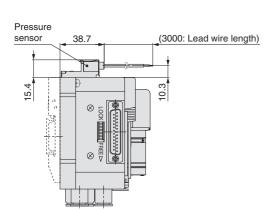
Coefficient	е
D side entry	_
U side/Both sides entry	23



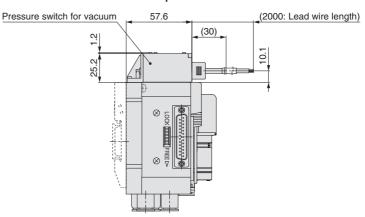
Dimensions

For details on ejectors, refer to the ZK2□A series in the **Web Catalogue**.

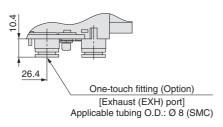
With pressure sensor



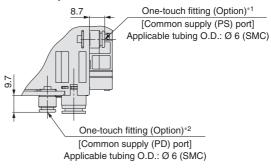
With pressure switch



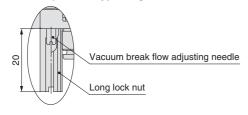
For port exhaust



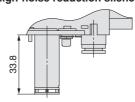
PS and PD port dimensions



For the screwdriver operation type long lock nut



For high-noise reduction silencer exhaust



- *1 The common pilot pressure supply (PS) port is only available when manifold option "L" (manifold individual supply specification) is selected.
- *2 The common supply (PD) port is only available when manifold option "D" is selected.

JSY3000 Series

Type 10/Side Ported

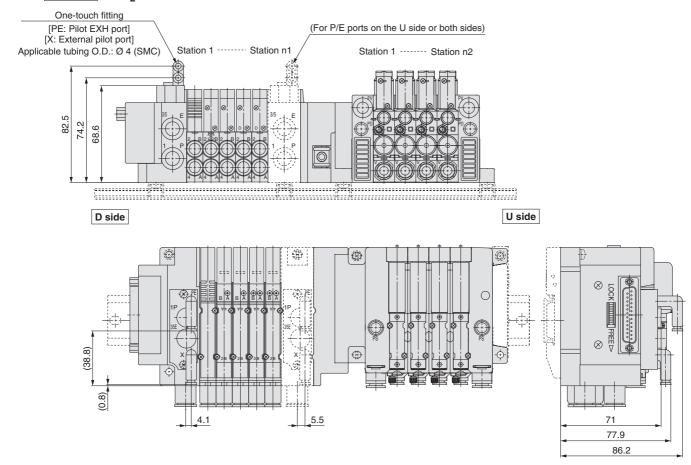
External Pilot, Built-in Silencer

Dimensions: JSY3000 Series

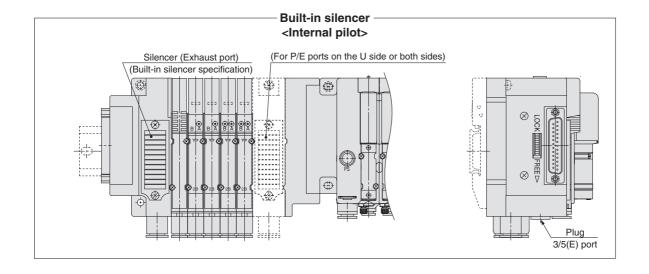
Vacuum Unit ZK2 Combination Manifold

JJ5SY3-10□- Stations DO (S, R)-M

* ZZK2 Stations A-A ¹₂ S0-



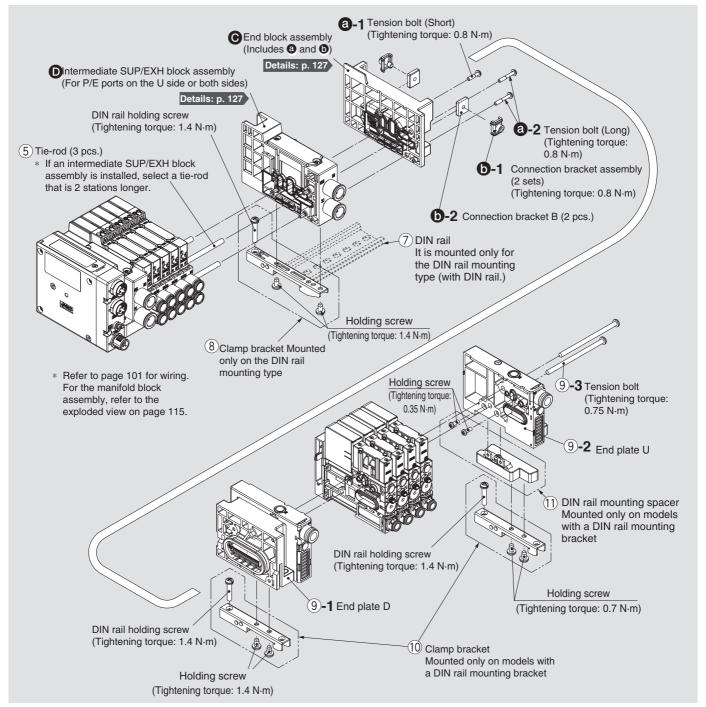
* These figures show the $\begin{bmatrix} JJ5SY3-10F2-05DR-C8-M\\ *ZZK204A-A1S0 \end{bmatrix}$



JSY3000 Series ZK2 Combination Manifold Exploded View

Manifold Exploded View

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



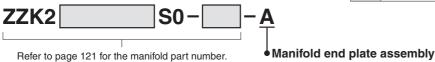
^{*} For details on the ZK2 ejector unit and replacement parts for the manifold, refer to the ZK2□A series catalogue.

For the JJ5SY3-10-M (ZZK2□A)

Manifold end plate assembly

The assembly number includes end plate D, end plate U, and a tension bolt assembly.

No.	Description	ZK2	Note
10	Clamp bracket	ZK2-DA5-A	2 pcs. per set
11)	DIN rail mounting spacer	ZK2-EU3-A	



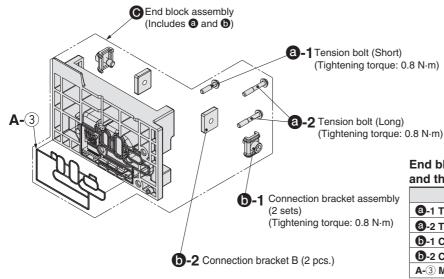


JSY3000 Series

Manifold Parts Nos.

©End block assembly

JSY31M-3P-2A



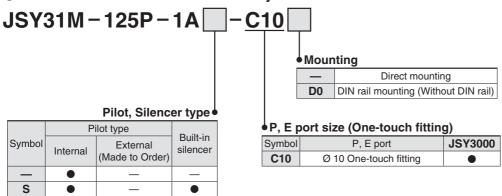
End block assembly accessories and the number of accessories

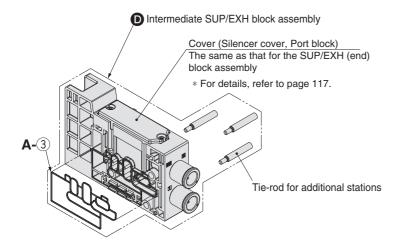
Accessories	Quantity
a -1 Tension bolt (Short)	1 pc.
a -2 Tension bolt (Long)	2 pcs.
b -1 Connection bracket assembly	2 sets
b -2 Connection bracket B	2 pcs.
A-③ Manifold block gasket	1 pc.

* Gasket is mounted.

DIntermediate SUP/EXH block assembly

•





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

<u></u>	
Accessories	Quantity
Tie-rod for additional stations	3 pcs.
A-③ Manifold block gasket	1 pc.

^{*} Gasket is mounted.

8 Clamp bracket

Series	Part no.	
JSY3000	SY30M-15-1A	

⚠ Caution

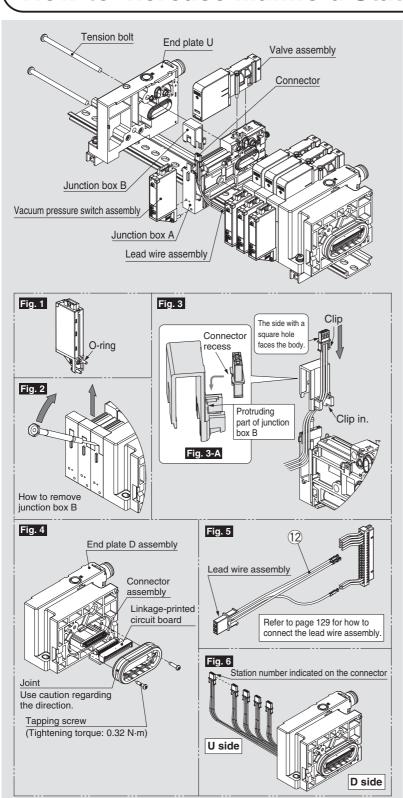
- Be sure to shut off the power and air supplies before disassembly.
 - Furthermore, since air may remain inside the actuator, piping and manifold, confirm that the air is completely exhausted before performing any work.
- When disassembly and assembly are performed, air leakage may result if the tightening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



R

JSY3000 Series ZK2 A Vacuum Ejector Manifold Exploded View

How to Increase Manifold Stations



[To increase the number of stations from an odd number (1, 3, 5, 7) to an even number (2, 4, 6, 8)]

(Odd numbered stations have a vacant lead wire for one station, so additional orders are not required.)

- 1) Remove the tension bolt.
- 2) Remove end plate U.
- Remove the valve assembly from the single unit for manifold to be added.
- 4) Remove the switch assembly if there is one. (Be careful not to drop the O-ring. Refer to Fig. 1.)
- Remove junction box B (top) using a precision screwdriver. (Refer to Fig. 2.)
- Mount the extra connector to junction box B. (Refer to Fig. 3.) (Engage the recess of the connector and the protruding part of junction box B. Refer to Fig. 3-A.)
- 7) Mount the single unit for manifold to be added to the end surface on the U side.
- 8) Mount end plate U with tension bolts of the appropriate length for the number of stations required. (Tightening torque: 0.75 N·m)
- 9) Mount junction box B to junction box A.
- 10) Mount the valve assembly. (Tightening torque: 0.15 N·m)
- For products with a switch, mount the switch assembly. (Be careful not to drop the O-ring. Tightening torque: 0.08 to 0.10 N·m)

[To increase the number of stations from an even number to an odd number or to increase by 2 stations or more]

- Remove the valve assemblies from all stations. (Remove from the single units to be added also.)
- 2) Remove the switch assemblies if there are any. (Be careful not to drop the O-rings. Refer to Fig. 1.)
- 3) Remove junction box B (top) from all stations using a precision screwdriver. (Refer to Fig. 2.) (Remove each junction box B from the D side.)
- Remove all connectors mounted to each junction box B. (Be careful not to break the connector clips.)
- 5) Remove the tension bolts.
- 6) Remove the end plate D assembly.
- 7) Remove the linkage-printed circuit board, and then remove the connector assembly. (Refer to Fig. 4.)
- 8) Connect the lead wire assembly. (Refer to Fig. 5.)
- 9) Remount the connector assembly and linkage-printed circuit board. (Refer to Fig. 4.)
- 10) Remove end plate U. (Be careful not to drop the gasket.)
- Mount the single units for manifold to be added to the end surface on the U side. (Do not let the gasket get caught.)
- 12) Mount end plates U and D with tension bolts of the appropriate length for the number of stations required. (Tightening torque: 0.75 N·m)
- 13) Mount the connectors for all stations to each junction box B. (Refer to Fig. 3.) (Engage the recess of the connector and the protruding part of junction box B. Refer to Fig. 3-A.)
- 14) Mount each junction box B to each junction box A. Push the wires down and mount each junction box B to each junction box A starting with the connector station numbers on the U side. (Refer to Fig. 6.) (Do not let the lead wire get caught.)
- 15) Mount the valve assemblies. (Tightening torque: 0.15 N·m)
- 16) For products with a switch, mount the switch assemblies. (Be careful not to drop the O-rings. Tightening torque: 0.08 to 0.10 N·m)

12 Lead wire assembly

ZK2-CHS 04-A

Applicable stations

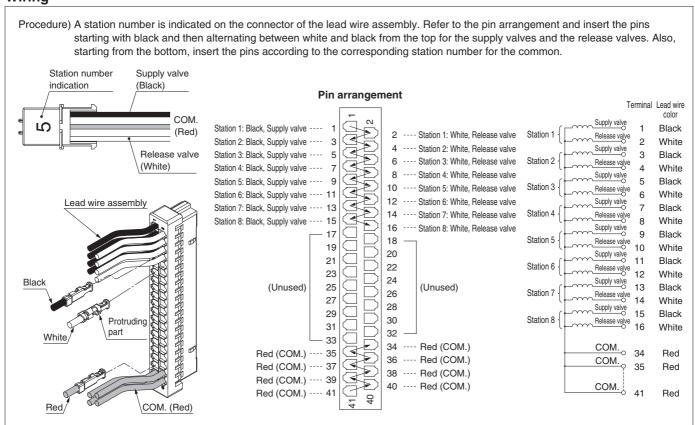
	•		
03 For 3-station manifol			
:	:		
08	For 8-station manifold		

How to Increase Manifold Stations: Vacuum Ejector Manifold for JSY3000

Connect the lead wire assembly to the positions shown in the diagram below.

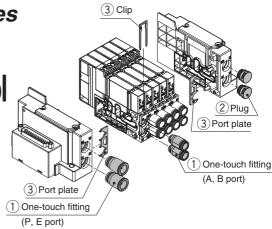
2) Do not pull the lead wire forcefully when connecting. Also, take care that lead wires do not get caught between manifolds when mounting end plates U and D.

Wiring



JSY1000/3000/5000 Series One-touch Fittings, Plug, Clip, Port Plate, Tube Releasing Tool
Refer to "How to Replace One-touch Fittings" on page 139

for the replacement method.



1 One-touch Fittings

	Series	JSY	1000	JSY3000	JSY5000	Note
Port size		6.5 mm pitch	9 mm pitch	J513000	J315000	Note
	Ø2	KQSY10-C2	_	_	_	
	Ø 4	KQSY10-C4-X1336	_	_	_	
A D mont	Ø6	_	KQSY11-C6-X1336	KQSY30-C6	_	
A, B port	Ø8	_		KQSY30-C8-X1336	_	<u></u>
	Ø 10	_	_	_	KQSY50-C10	The part number is for 1 piece. (Sales unit: 10 pcs.)
	Ø 12	_		_	KQSY50-C12-X1336	(Gales unit: 10 pcs.)
	Ø8	KQSY30-	C8-X1336	_	_	
P, E port	Ø 10	_		KQSY31-C10-X1336	_	
	Ø 12	_	_	_	KQSY50-C12-X1336	

^{*} Refer to page 139 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	The part number is for 1 piece.

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

3 Clip, Port Plate

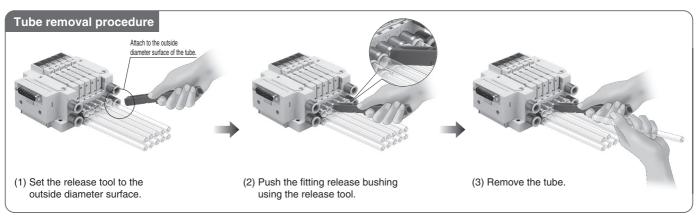
Series	JSY ⁻	1000				
Piping port	For A, B port C2/C4 fittings	For A, B port C6 fittings	JSY3000	JSY5000	Note	
A, B port (Clip)	SJ1000-CL-1	JSY11M-19P-1A	JSY31M-19P-1A	JSY51M-19P-1A	The part number is for 10 pieces.	
P, E port (Port plate)	JSY11N	И-10P-1	JSY31M-10P-1	JSY51M-10P-1	The part number is for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

^{*} Refer to page 139 for assembling when a fitting is replaced.

■ Tube Releasing Tool (This tool can be used to remove tubes from ports A and B.)

	•			. ,
Series	For JS	Y1000	For JSY3000	For JSY5000
Selles	6.5 mm pitch	9 mm pitch	F01 33 13000	FOI 33 13000
Part no.	TG-0204	TG-0608	TG-0608	TG-1012
Applicable tubing O.D.	Ø 2/Ø 4	Ø6	Ø 6/Ø 8	Ø 10/Ø 12



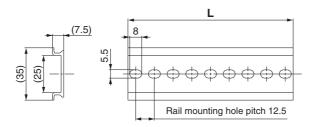


JSY1000/3000/5000 Series Manifold Options

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

VZ1000-11-1-□

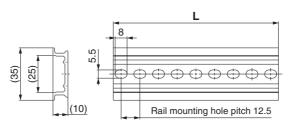
* After confirming the L3 dimension in the dimensions table of each series, refer to the DIN rail dimensions table below and specify the number in the box □.



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
L dimension Weight [g]		585.5 105.4	598 107.6	610.5 109.9	623 112.1	635.5 114.4	648 116.6	660.5 118.9	673 121.1	685.5 123.4	698 125.6	710.5 127.9	723 130.1	735.5 132.4	748 134.6	760.5 136.9	773 139.1	785.5 141.4	798 143.6
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				

■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 .



No.	0	1	2	3	1	5	6	7	8	9	10	11	12	13	14	15	16	17	18
INO.	U	- 1		_	4	5	0	/	0	9	10	- 11	12	13		10	10	17	10
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
Weight [g]	145	148.1	151.3	154.5	157.6	160.8	163.9	167.1	170.3	173.4	176.6	179.8	182.9	186.1	189.2	192.4	195.6	198.7	201.9
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]	205.1	208.2	211.4	214.5	217.7	220.9	224	227.2	230.4	233.5	236.7	239.8	243	246.2	249.3				

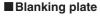


Manifold Options JSY1000/3000/5000 Series

↑ 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 134 for dimensions.

Manifold Options

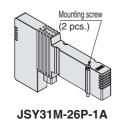


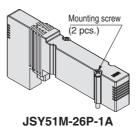
[With two mounting screws]

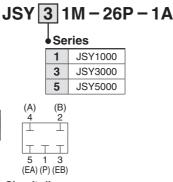
Used when valve additions are expected or for maintenance



JSY11M-26P-1A



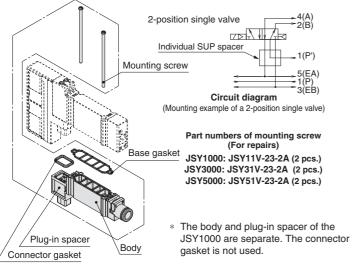


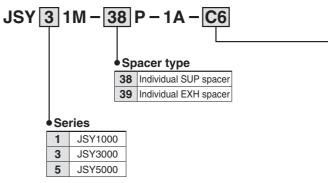


Circuit diagram

■ Individual SUP spacer

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



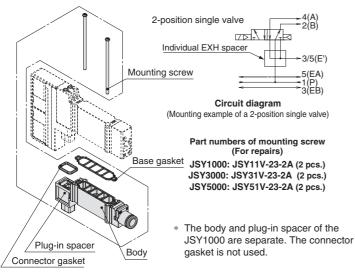


Port size (One-touch fittings)

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

■ 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 can be used for individual valve exhaust.





JSY1000/3000/5000 Series

Manifold Options

■SUP/EXH blocking disk

[SUP blocking disk]

Inserting an SUP blocking disk in the pressure supply passage of a manifold valve can allow for the use of 2 different pressures (high and low) in 1 manifold.

[EXH blocking disk]

Inserting an EXH blocking disk in the exhaust passage of a manifold valve can separate the exhaust from the valve so it does not affect the other valves. It can also be used in positive pressure and vacuum pressure mixed manifolds. (2 pieces are required to block both the EA and EB 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 manifold specification sheet and ordered

■ Labels for blocking disks

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

SUP/EXH blocking disk label







E	XΗ	
blocking	disk	labe



B 2	position wh	nere the blo	ne manifold, ocking disk is d and shippe	;
35	E ⊗	⊗ ⊗ ⊗ D ⊗ D ⊗	⊗ 3/5	E
1	P	B 2 B 2	B 2 B 1	P

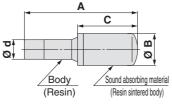
Series	Part no.
JSY1000	
JSY3000	SJ3000-155-1A
JSY5000	

■ Silencer

(One-touch fitting connection type)

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

* Shipped together with the product



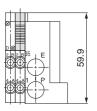
Series (Ø d)	Model	Effective area	Α	В	С
For JSY1000 (Ø 8)	AN15-C08	20 mm ²	45	13	20
For JSY3000 (Ø 10)	AN20-C10	30 mm ²	57.5	16.5	30.5
For JSY5000 (Ø 12)	AN30-C12	41 mm ²	71.5	20	43.5

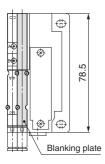
Manifold Options JSY1000/3000/5000 Series

Dimensions: Manifold Options

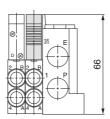
■ Blanking plate

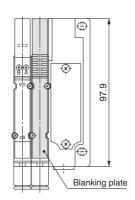
JSY1000 series



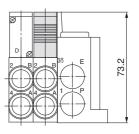


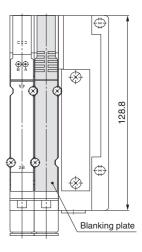
JSY3000 series





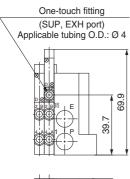
JSY5000 series

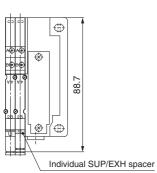




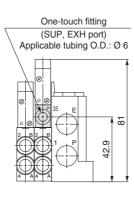
■ Individual SUP/EXH spacer

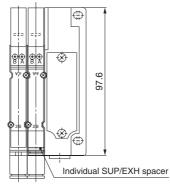
JSY1000 series



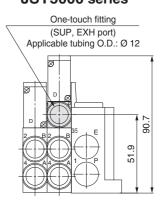


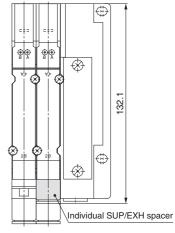
JSY3000 series





JSY5000 series







JSY1000/3000/5000 Series Made to Order

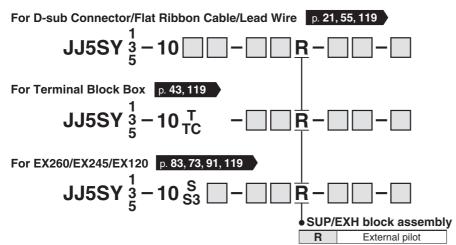


Please contact SMC for detailed dimensions, specifications, and delivery times.

1 External pilot

How to Order Manifolds

Refer to the How to Order manifolds for each type.



- * 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. 63, 77, 119

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

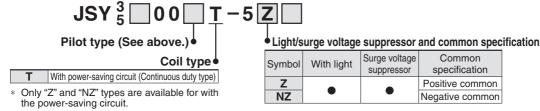
- * External pilot specification is not applicable for 4-position dual 3-port valves.
- * When pilot type "R" is selected, select the external pilot type "R" for the manifold SUP/EXH block assembly, and select either of "G/H/J" for the EX600/EX250 manifold.

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 energised for long periods of time. Be careful of the energising time when the power-saving circuit is selected. Refer to page 137 for details.

0.1 W: JSY3000/5000

How to Order Valves







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.smc.eu

Environment

Marning

- Do not use valves in atmospheres of corrosive gases, chemicals, sea water, water, water vapour, or where there is direct contact with any of these.
- Products compliant with IP67 enclosures (based on IEC 60529) 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 into 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	M3	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

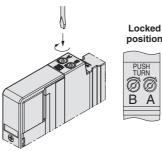
Push down on the manual override button until it stops.



■ 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.

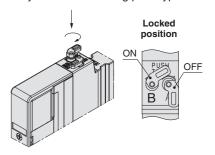


Manual Override

Marning

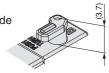
■ Push-turn locking lever type [E type] (Only for the JSY3000/5000)

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

Used as a 3-Port Valve

⚠ Caution

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

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

Plug position		B port	A port
Type of actuation		N.C.	N.O.
Number of solenoids	Single	(A)4 2(B) (EA)5 1 3(EB) (P)	(A)4 2(B) ✓► 1 3(EB) (EA)5 1 3(EB)
	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.smc.eu

Light/Surge Voltage Suppressor

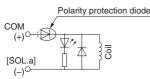


■ Polar type

Positive common

Single solenoid

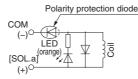
 $Light/surge\ voltage\ suppressor\ (\Box NZ)$



Negative common

Single solenoid

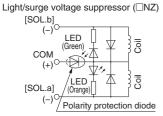
Light/surge voltage suppressor (□NZ)



Positive common

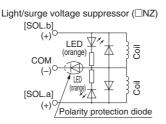
Double solenoid, 3-position, 4-position

3-position, 4-position



Negative common

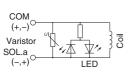
Double solenoid, 3-position, 4-position



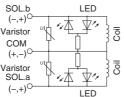
■ Non-polar type

With light/surge voltage suppressor (□U)

Single solenoid



Double solenoid

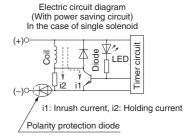


* Non-polar type is not available for the JSY1000.

■ With power-saving circuit

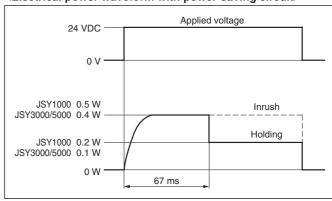
(JSY3000/5000 series products are made to order.)

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 energised state. (Effective energising time is over 67 ms at 24 VDC.)



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 table below 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 14.

Residual Voltage

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

Continuous Duty

. Caution

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

Energization of a 2-Position Double Solenoid Valve

⚠ Caution

To avoid operation failure, do not energise 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.smc.eu

Countermeasure for Surge Voltage Intrusion

⚠ Caution

■ Surge voltage intrusion

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

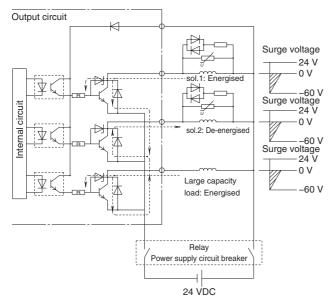


Figure 1. Surge intrusion circuit example (NPN outlet example) (24 VDC)

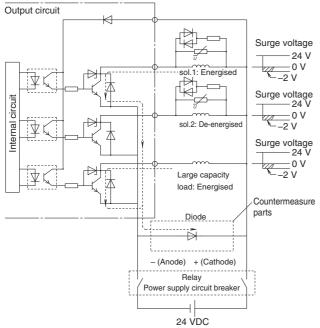
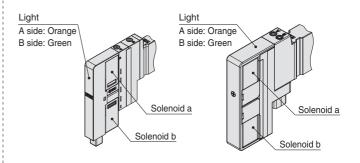


Figure 2. Surge intrusion countermeasure example (NPN outlet example) (24 VDC)

Light Indication

∧ Caution

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



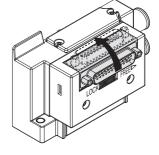
Changing Connector Entry Direction

A 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.







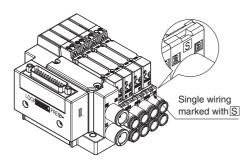
Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smc.eu

Manifold Indication Symbol

⚠ 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.

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



Substrate inside Manifolds

∧ Caution

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

Securing the DIN Rail Mounting Type Manifold

⚠ Caution

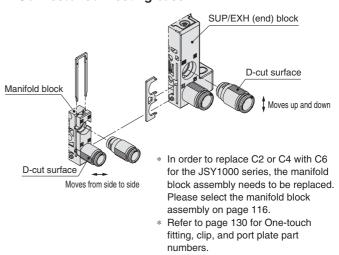
- 1. When the manifold is secured with bolts on a mounting surface, etc., it can be operated just by securing both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, secure the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 6-10 stations, 4 locations for 11-15 stations, 5 locations for 16-20 stations, and 6 locations for 21-24 stations.
- 2. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

How to Replace One-touch Fittings

∧ Caution

By replacing One-touch fittings of manifold base, it is possible to change the connection diameter of the 4(A), 2(B), 1(P), 3/5(E) ports. When replacing the One-touch fittings, remove the clip or the plate before pulling the One-touch fittings off. Mount the One-touch fittings by following the removal procedure in reverse. Use caution as it may cause air leakage if the clip and the plate are not inserted securely enough when they are switched. Refer to page 130 for part numbers of One-touch fittings.

■ Connector connecting base



<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) KQSY30-C8-X1336 (JSY3000) KQSY50-C12-X1336 (JSY5000)







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

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 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, 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 130 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.
- 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

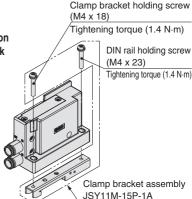
∧ Caution

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

■ Wiring

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

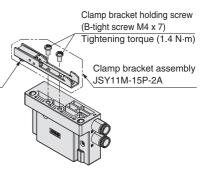
* When the DIN rail is not accommodated in the clamp bracket, loosen the DIN rail holding screw once and insert the DIN rail.



<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.



Model Index (Alphanumeric Order)

JJ5SY1-10F	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Connector Entry Direction Adjustable <ip40></ip40>	p. 21
JJ5SY1-10FC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Compact Type <ip20></ip20>	p. 21
JJ5SY1-10L1	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 55
JJ5SY1-10L2	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 55
JJ5SY1-10L3	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 55
JJ5SY1-10P	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (26 pins) <ip40></ip40>	p. 21
JJ5SY1-10PC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (26 pins) <ip20></ip20>	p. 21
JJ5SY1-10PG	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (20 pins) <ip40></ip40>	p. 21
JJ5SY1-10PGC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (20 pins) <ip20></ip20>	p. 21
JJ5SY1-10PH	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (10 pins) <ip40></ip40>	p. 21
JJ5SY1-10PHC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (10 pins) <ip20></ip20>	p. 21
JJ5SY1-10S	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 77
JJ5SY1-10S□	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 83
JJ5SY1-10S3	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 91
JJ5SY1-10S6	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 63
JJ5SY1-10T	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 43
JJ5SY1-10TC	JSY1000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box	p. 43
JJ5SY3-10□-M	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Vacuum Unit ZK2 Combination Manifold	p. 119
JJ5SY3-10F	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Connector Entry Direction Adjustable <ip40></ip40>	p. 21
JJ5SY3-10FC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Compact Type <ip20></ip20>	p. 21
JJ5SY3-10FW	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector <ip67></ip67>	p. 21
JJ5SY3-10L1	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 55
JJ5SY3-10L2	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 55
JJ5SY3-10L3	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 55
JJ5SY3-10P	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (26 pins) <ip40></ip40>	p. 21
JJ5SY3-10PC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (26 pins) <ip20></ip20>	p. 21
JJ5SY3-10PG	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (20 pins) <ip40></ip40>	p. 21
JJ5SY3-10PGC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (20 pins) <ip20></ip20>	p. 21
JJ5SY3-10PH	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (10 pins) <ip40></ip40>	p. 21
JJ5SY3-10PHC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Compact Type (10 pins) <ip20></ip20>	p. 21
JJ5SY3-10S	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 77
JJ5SY3-10S□	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 83
JJ5SY3-10SA□	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX245 Series	p. 73
JJ5SY3-10S3	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 91
JJ5SY3-10S6	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 63
JJ5SY3-10T	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 43
JJ5SY3-10TC	JSY3000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box	p. 43
JJ5SY5-10F	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector, Connector Entry Direction Adjustable < IP40>	•
JJ5SY5-10FW	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: D-sub Connector <ip67></ip67>	p. 21
JJ5SY5-10L1	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 34 cores	p. 55
JJ5SY5-10L2	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 17 cores	p. 55
JJ5SY5-10L3	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Lead Wire, 9 cores	p. 55
JJ5SY5-10P	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (26 pins) <ip40></ip40>	
JJ5SY5-10PG	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (20 pins) < IP40>	p. 21
JJ5SY5-10PH	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Flat Ribbon Cable, Connector Entry Direction Adjustable (10 pins) < IP40>	•
JJ5SY5-10S	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX250 Series	p. 77
JJ5SY5-10S□	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX260 Series	p. 83
JJ5SY5-10SA	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX245 Series	p. 73
JJ5SY5-10S3	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX120 Series	p. 91
JJ5SY5-10S6	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: EX600 Series	p. 63
JJ5SY5-10T	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Terminal Block Box	p. 43
JJ5SY5-10TC	JSY5000	Type 10/Side Ported	Plug-in Connector Connecting Base: Spring Type Terminal Block Box	p. 43
ZK2□A		nit ZK2 Combination Ma	·	p. 122
ZZK2□A	Vacuum U	nit ZK2 Combination Ma	anifold: Ejector Manifold	p. 121
4.4.4				



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

njury.

⚠ Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious

injury.

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.

Marning

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 catalogueue 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.
 - The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 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 catalogueue.
 - 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 catalogueue 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

- The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

$\ensuremath{\mathsf{SMC}}$ 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

Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Revision History

Edition B

- The EX245 integrated type (for input/output) serial transmission system has been added.
- The EX260 safety communication (PROFIsafe) compliant manifold has been added.
- The vacuum unit ZK2 combination manifold has been
- Number of pages has been increased from 124 to 144.

SMC Corporation (Europe)

Austria +43 (0)2262622800 www.smc.at Belgium +32 (0)33551464 www.smc.be Bulgaria +359 (0)2807670 www.smc.bg Croatia +385 (0)13707288 www.smc.hr Czech Republic +420 541424611 www.smc.cz Denmark +45 70252900 Estonia +372 651 0370 www.smcee.ee Finland +358 207513513 www.smc.fi France +33 (0)164761000 www.smc-france.fr Germany +49 (0)61034020 www.smc.de Greece +30 210 2717265 www.smchellas.gr +36 23513000 Hungary www.smc.hu Ireland +39 03990691 Italy Latvia +371 67817700 www.smc.lv

office@smc.at info@smc.be office@smc.bg office@smc.hr office@smc.cz www.smcdk.com smc@smcdk.com info@smcee.ee smcfi@smc.fi supportclient@smc-france.fr info@smc.de sales@smchellas.gr office@smc.hu +353 (0)14039000 www.smcautomation.ie sales@smcautomation.ie www.smcitalia.it mailbox@smcitalia it info@smc.lv

ZΖ

Lithuania +370 5 2308118 www.smclt.lt Netherlands +31 (0)205318888 www.smc.nl www.smc-norge.no Norway +47 67129020 +48 222119600 Poland www.smc.pl Portugal +351 214724500 www.smc.eu Romania +40 213205111 www.smcromania.ro Russia +7 (812)3036600 www.smc.eu Slovakia +421 (0)413213212 www.smc.sk Slovenia +386 (0)73885412 www.smc.si Spain +34 945184100 www.smc.eu Sweden +46 (0)86031240 www.smc.nu **Switzerland** +41 (0)523963131 www.smc.ch Turkey +90 212 489 0 440 www.smcturkey.com.tr UK +44 (0)845 121 5122 www.smc.uk

info@smc.nl post@smc-norge.no office@smc.pl apoioclientept@smc.smces.es smcromania@smcromania.ro sales@smcru.com office@smc.sk office@smc.si post@smc.smces.es smc@smc.nu info@smc.ch satis@smcturkey.com.tr sales@smc.uk

info@smclt.lt

South Africa +27 10 900 1233 www.smcza.co.za zasales@smcza.co.za