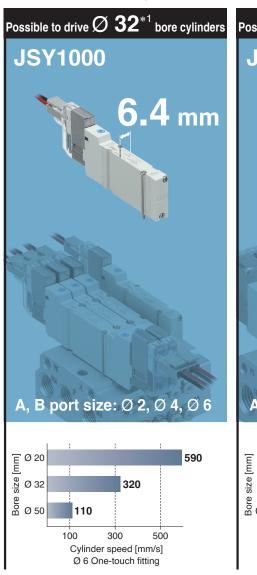
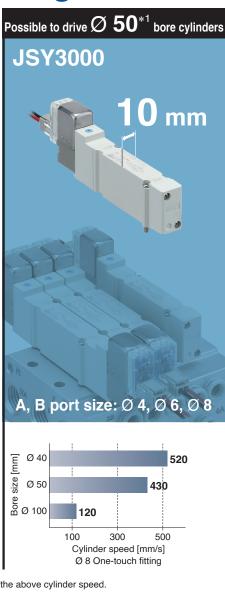
Non Plug-in

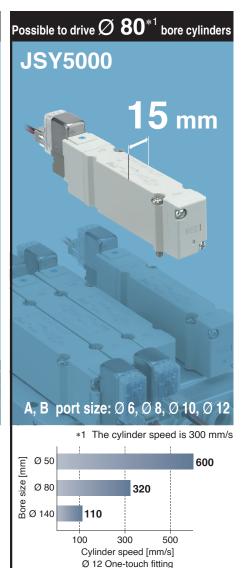
Compact 5-Port Solenoid Valve New

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





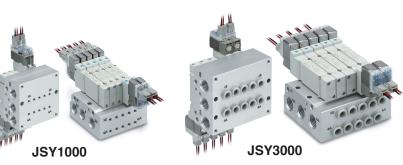




New An M12 connector has been added.
(JSY5000 only)
p. 16

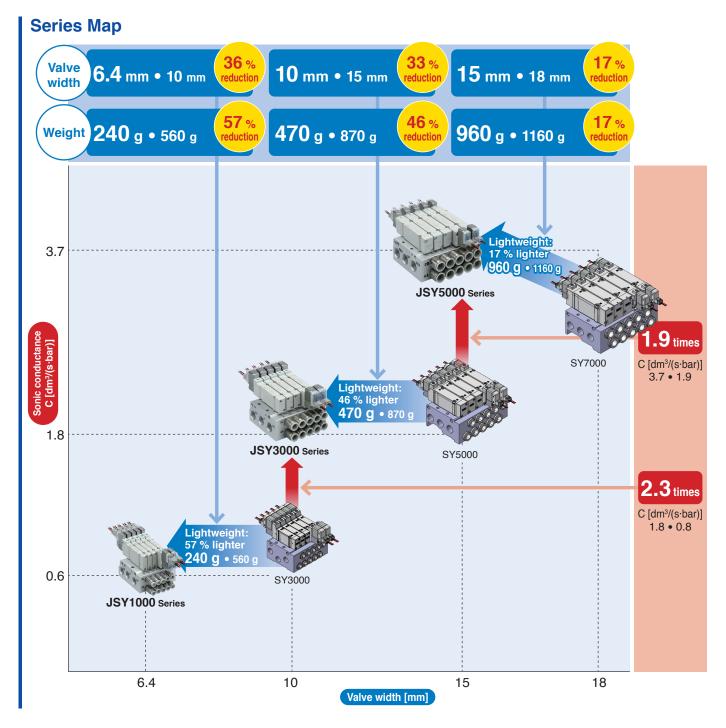
JSY5000

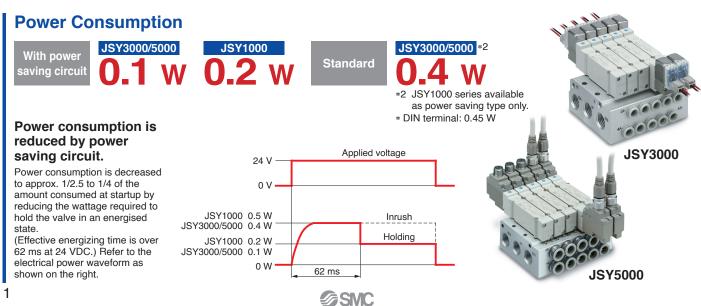
Refer to pages 5 to 16 for detailed conditions regarding the above cylinder speed.



JSY1000/3000/5000 Series





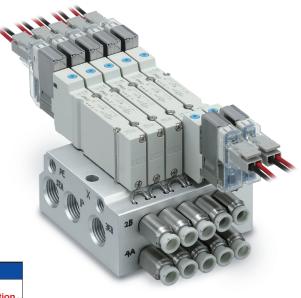


Space Saving

36 % reduction

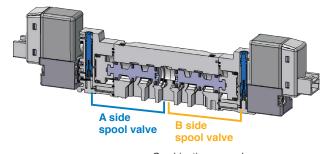
Weight 57 % reduction

		Volume [cm³]	Weight [g]
	JSY1000	210 36 % reduction	240 57-% reduction
ĺ	SY3000	330	560
Ì	JSY3000	460 28 % reduction	470 46.% reduction
	SY5000	640	870
İ	JSY5000	850 reduction	960 17-% reduction
Ì	SY7000	990 general 4-% reduction	1160



4-Position Dual 3-Port Valve Available

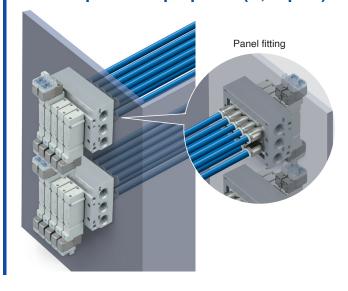
• Two 3-port valves built into one body



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

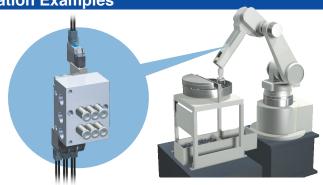
Model	A side	B side
JSY□A4□	N.C. valve	N.C. valve
JSY□B4□	N.O. valve	N.O. valve
JSY□C4□	N.C. valve	N.O. valve

Bottom ported is prepared (A, B port).



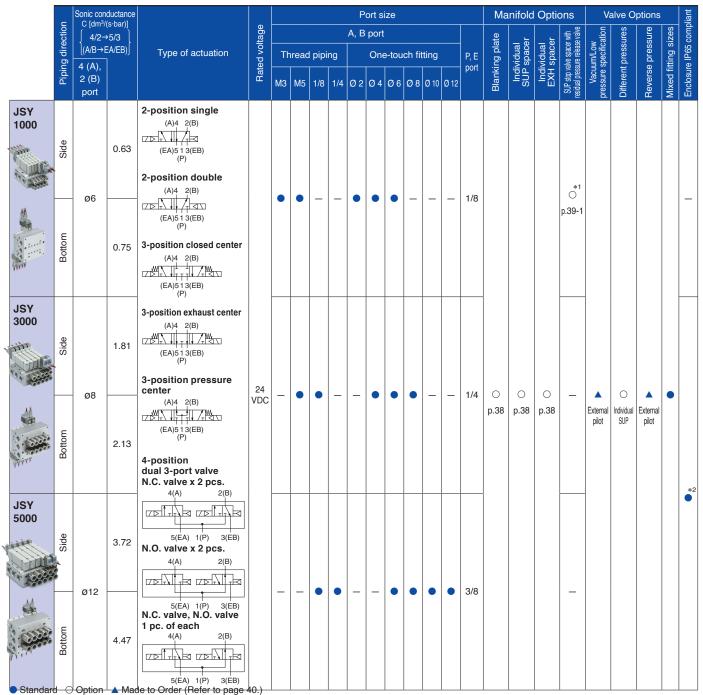
Application Examples





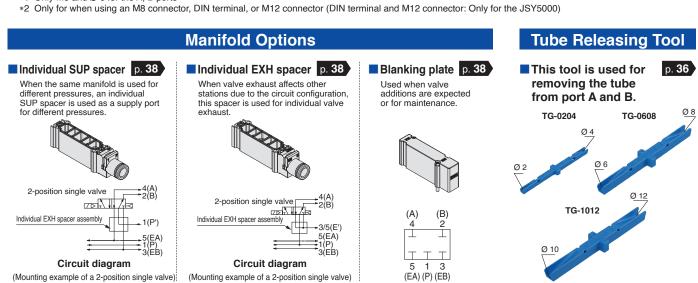


Series Variations



*1 Only M5 and Ø 6 for the A, B ports

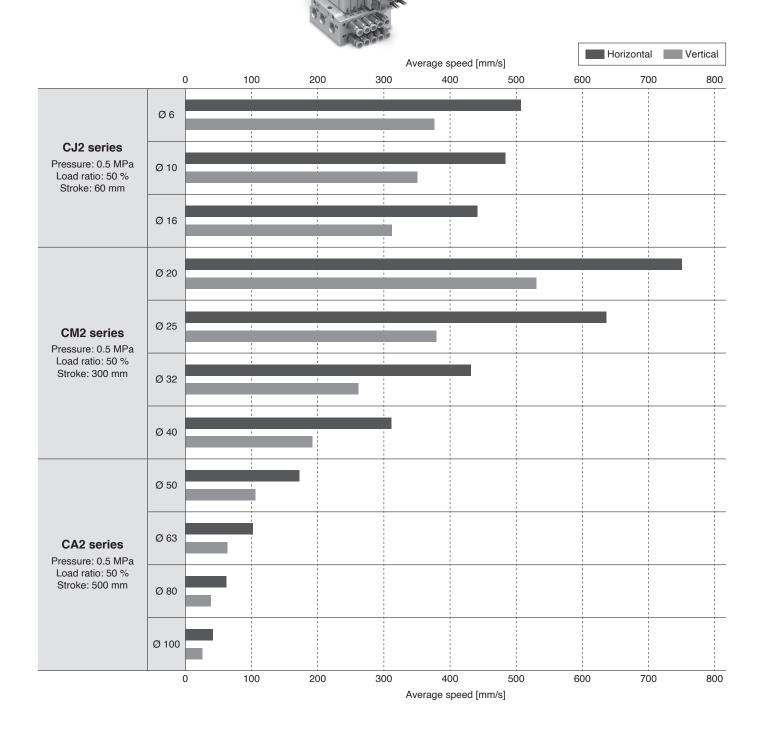
3



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in the same of the		Dimensions/JSY1000: Ty	ype 41 Bottom Ported ·····	p. 20
1		Dimensions/JSY3000: Ty	ype 40 Side Ported ······	p. 23
JSY3000 Side ported	JSY3000 Bottom ported	Dimensions/JSY3000: Ty	ype 41 Bottom Ported······	p. 26
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For JSY1000, A, B port: Ø 4



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

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

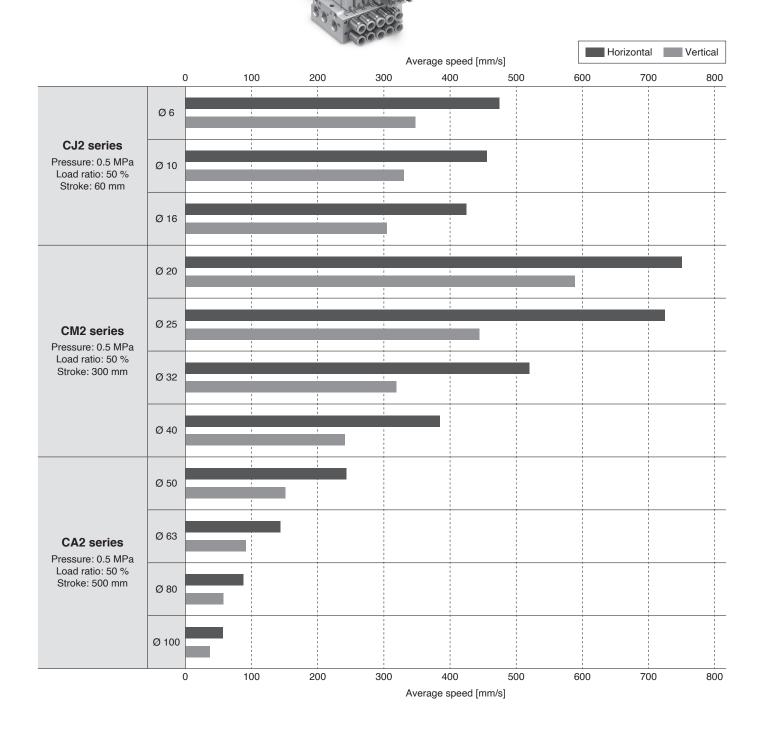


^{*} Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

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 %

For JSY1000, A, B port: Ø 6



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

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

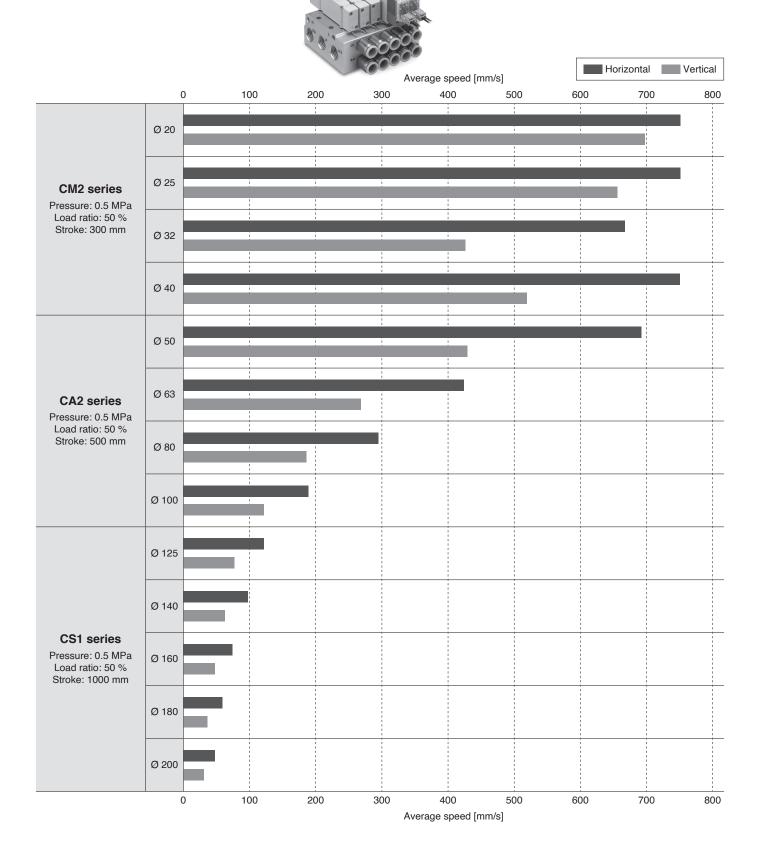


^{*} Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

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 %

For JSY3000, A, B port: Ø 8

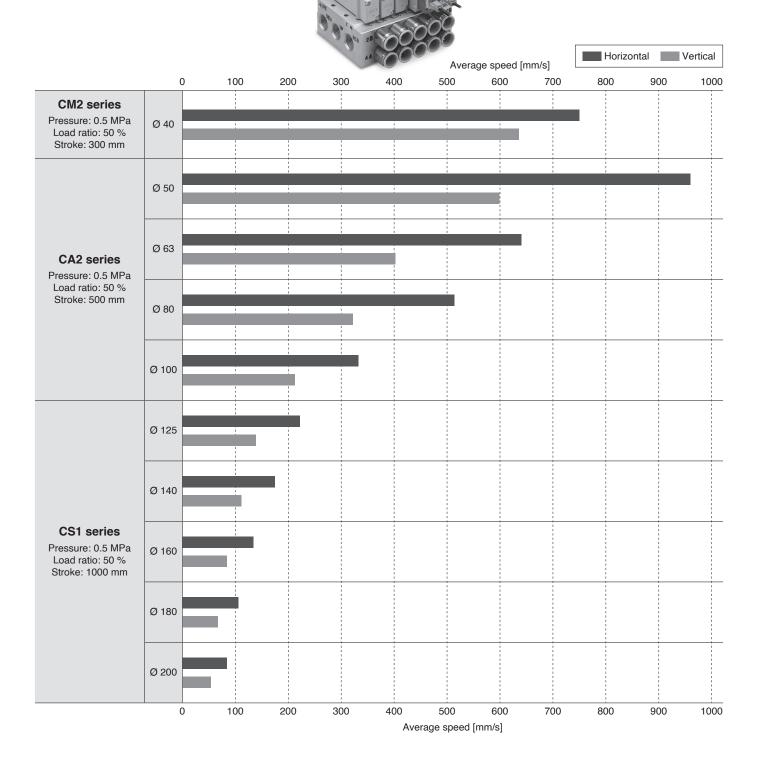


- * Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.
- The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output)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

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







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

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



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

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 %

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

		Valve type		Rubber seal			
Fluid				Air			
Internal pilot	2-position single			0.15 to 0.7			
operating pressure	2-position double			0.1 to 0.7			
range	3-р	osition		0.2 to 0.7			
[MPa]	4-p	osition dual 3-por	t valve	0.15 to 0.7			
External pilot	Op	erating pressure r	ange	-100 kPa to 0.7			
operating pressure	D:1	2	2-position single				
range [MPa]	ran	ot pressure	2-position double	0.25 to 0.7			
(Made to Order)	lan	3	3-position				
Ambient and fluid tem	perat	tures [°C]		-10 to 50 (No freezing)			
		2	-position single/double	5			
	JS	Y1000/3000 4	-position dual 3-port valve	5			
Max. operating frequency		3	3-position	3			
[Hz]		2	-position single/double	5			
[]	JS	Y5000 4	-position dual 3-port valve	3			
		3	3-position	3			
				Non-locking push type			
Manual override				Push-turn locking slotted type			
				Push-turn locking lever type			
Pilot exhaust type	Inte	ernal pilot		Individual exhaust			
Filot exhaust type	External pilot (Made to Order)			individual extidust			
Lubrication				Not required			
Mounting orientation*	1			Unrestricted			
Impact/Vibration resis	tance	e*1 [m/s ²]		150/30			
Enclosure				IP40/IP65: M8 connector (W) (WA) type			
Electrical entry				L plug connector (L), M plug connector (M), M8 connector (W)(WA)			
Coil rated voltage [V]				24 VDC			
Allowable voltage fluc	tusti	on	JSY1000	-7 % to +10 % of the rated voltage (24 VDC)			
Anowable voltage liuc	Luain		JSY3000/5000	± 10 % of the rated voltage			
Dower concumption		Standard	JSY3000/5000	0.4			
Power consumption [W]	DC	With power	JSY1000	0.2*2 [Inrush 0.5, Holding 0.2]			
[]		saving circuit*3	JSY3000/5000	0.1*4 [Inrush 0.4, Holding 0.1]			
Surge voltage suppressor				Diode			
Indicator light				LED			

^{*1} Impact resistance: No malfunction occurred when it is tested in the axial direction and at the right angles to the main valve and armature in both energised and de-energised states every once for each condition. (Values at the initial period)

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

Refer to page 45-1 for the fixation of DIN rail mounting type manifold.



^{*2} JSY1000 series available as power saving type only. Standard type (without power saving circuit) cannot be selected.

^{*3} The type with a power-saving circuit is not available for the DIN terminal, M8 connector, and M12 connector types.

^{*4} For details, refer to page 44.

Valve Specifications JSY1000/3000/5000 Series

Response Time/Valve Weight

Carias		Model	Turn of actuation	Response time [ms] (at 0.5 MPa)*1 Standard	Weight [g]					
Series	Seal type	Model	Type of actuation	With light/surge voltage suppressor	L/M plug	DIN terminal	W/WA M8	K M12		
				Z type	connector	terriiriai	connector	connector		
		JSY1140T	2-position single	15	17					
JSY1000		JSY1240T	2-position double	5	24		_			
3311000		JSY1(3/4/5)40T	3-position	13	25					
		JSY1(A/B/C)40T	4-position dual 3-port valve	14	24					
		JSY3140	2-position single	27	34	_	38	_		
JSY3000		JSY3240	2-position double	10	49		57			
0313000	riubbei seai	JSY3(3/4/5)40	3-position	30	52		60			
				JSY3(A/B/C)40	4-position dual 3-port valve	27	48		56	
		JSY5140	2-position single	42	66	94	70	88		
JSY5000		JSY5240	2-position double	13	83	139	91	127		
0315000		JSY5(3/4/5)40	3-position	40	93	149	101	137		
		JSY5(A/B/C)40	4-position dual 3-port valve	41	80	136	88	124		

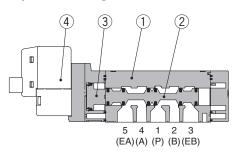
^{*1} Based on dynamic performance test, JIS B 8419-2010. (Coil temperature: 20 $^{\circ}$ C, at rated voltage)

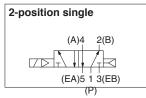


JSY1000/3000/5000 Series Valve Construction

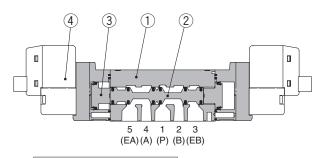
Rubber Seal

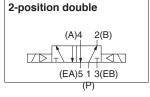
2-position single



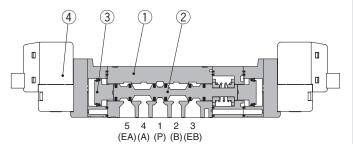


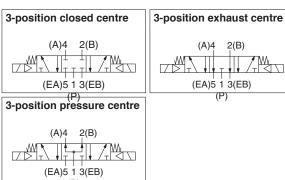
2-position double



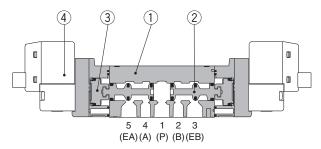


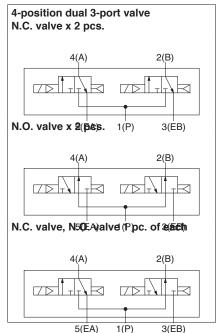
3-position closed centre/exhaust centre/pressure centre





4-position dual 3-port valve



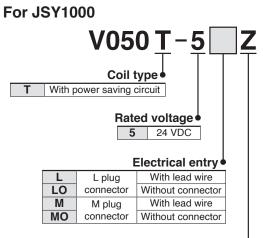


Component Parts

00111	pononii i ai to	
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	_

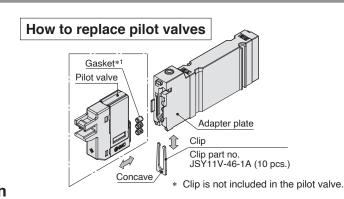
JSY1000/3000/5000 Series Valve Replacement Parts

How to Order Pilot Valves



Light/surge voltage suppressor

Z With light/surge voltage suppressor



⚠ Caution

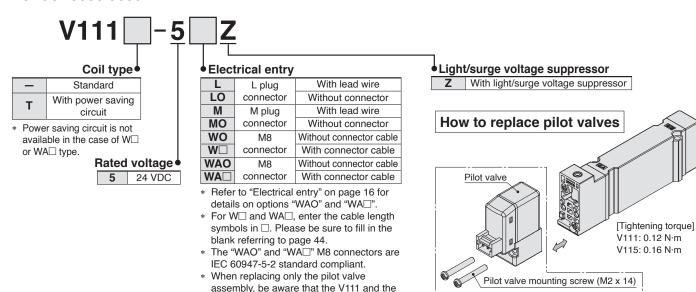
Removal

- 1) Remove the clip from the adapter plate by using a flat head screwdriver on the concave of the clip.
- 2) Remove the pilot valve in the direction of the arrow. (Remove also the gasket together.)

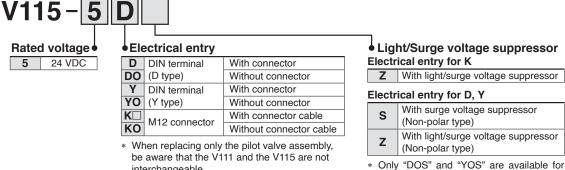
Mounting

- 1) Mount the pilot valve on the adapter plate.
- Insert the clip into the adapter plate so that the clip will not protrude from the end of the adapter plate.
- *1 Confirm that the gasket is mounted on the pilot valve.

For JSY3000/5000



DIN terminal type, M12 connector type (JSY5000 only)



interchangeable.

* Refer to "Electrical entry" on page 16 for details

V115 are not interchangeable.

- on the "K□" and "KO" types.

 * Enter the cable length symbols in K□. Please be sure to fill in the blank referring to page 44.
- * DOZ and YOZ are not available

the S type.



JSY1000/3000/5000 Series Type 40, 41





Manifold typ	oe		Non plug-in metal base
SUP/EXH port type			Common SUP/EXH
Valve stations			2 to 20 stations
		JSY1000	1/8
	1(P), 3/5(E) port	JSY3000	1/4
		JSY5000	3/8
Port size		JSY1000	M3 x 0.5, M5 x 0.8 \varnothing 2 One-touch fitting, \varnothing 4 One-touch fitting, \varnothing 6 One-touch fitting
	4(A), 2(B) port	JSY3000	M5 x 0.8, 1/8 Ø 4 One-touch fitting, Ø 6 One-touch fitting, Ø 8 One-touch fitting
		JSY5000	1/8, 1/4 Ø 6 One-touch fitting, Ø 8 One-touch fitting, Ø 10 One-touch fitting, Ø 12 One-touch fitting

Manifold Flow Rate Characteristics/Manifold Weight

	Port s	ize	Valve flow rate characteristics					Weight: W [g]*1		
Model	1, 5, 3	4, 2	1 → 4/2 (P → A/B)			4/2 → 5/3 (A/B → E)			(n: stations)	
	(P, EA, EB)	(A, B)	C [dm3/(s·bar)]	b	Q [l/min (ANR)]*2	C [dm ³ /(s·bar)]	b	Q [I/min (ANR)]*2	Fixed: C□	Replaceable: KC□
JJ5SY1-40 (Side ported)	1/8	KC6	0.62	0.34	162	0.63	0.28	158	20.1n + 38	30.5n + 35
JJ5SY1-41 (Bottom ported)	1/8	KC6	0.74	0.46	211	0.75	0.36	198	20.8n + 38	33.8n + 35
JJ5SY3-40 (Side ported)	1/4	KC8	1.86	0.36	492	1.81	0.27	452	38.0n + 84	54.4n + 86
JJ5SY3-41 (Bottom ported)	1/4	KC8	2.31	0.43	642	2.13	0.31	545	41.2n + 84	59.6n + 80
JJ5SY5-40 (Side ported)	3/8	KC12	3.61	0.30	918	3.72	0.18	881	90.1n + 148	121.5n + 144
JJ5SY5-41 (Bottom ported)	3/8	KC12	4.28	0.40	1164	4.47	0.25	1102	95.8n + 133	140.1n + 122

^{*1} Weight: W is the value of the internal pilot, and maximum manifold size with tube fitting type. Valve is not included. To obtain the weight with valves attached, add the valve weights given on page 10 for the appropriate number of stations.

- * Calculation of effective area S and sonic conductance C: S = 5.0 x C
- * The value is for manifold base with 5 stations and individually operated 2-position type.
- * Bottom port is available only for 4, 2 (A, B) port.



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

Type 40 Side Ported Type 41 **Bottom Ported**

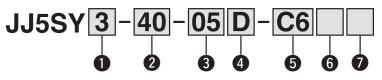
Non Plug-in Metal Base

JSY1000/3000/5000 Series

(E UK RoHS

Internal Pilot

How to Order Manifolds



refer to page 40.

Series JSY1000 JSY3000 JSY5000

2 Туре						
40	Side ported					
41	Bottom ported ternal pilot specification should be					
ordere	d as Made to Order. For details,					

3 Valve stations

Symbol	Stations	
02	2 stations	
:	:	
20	20 stations	

NPT

6 Thread type

N

Made to Order (Refer to page 40 for details.)

(P9-		
	Sp	ecifica	tion	
	Ex	ternal ı	oilot	

4 P. E port entry

	' '
U	U side*1
D	D side*1
*1 Plugs	Both sides are mounted on the opposite

side of the selected ports.

5 A, B port size Thread piping

Symbol	A, B port	JSY1000	JSY3000	JSY5000
М3	M3 x 0.5	•	_	_
M5	M5 x 0.8	•	•	_
01	1/8	_	•	•
02	1/4	–	_	•
One-touc	n tittina (ivie	tric)	•	

Symbol	A, B port	J5 1 1000	J5 Y3000	J212000	
М3	M3 x 0.5	•	_	_	
M5	M5 x 0.8	•	•	_	
01	1/8	_	•	•	
02 1/4		·	_	•	
One-touc	h fitting (Me	tric)			
Cumbal	A D nort	ICV1000	ICV2000	ICVENON	

Symbol	A, B port	JSY1000	JSY3000	JSY5000					
C2	Ø2	•	_	_					
C4	Ø 4	•	_	_	60				
C6	Ø6	_	•	_					
C8	Ø8	_	_		G				
KC2	Ø2	•	_	_	Type 40	Type 41			
KC4	Ø 4	•	•	_	(Side	(Bottom ported)			
KC6	Ø6	•	•	•	ported)				
KC8	Ø8	_	•	•					
KC10	Ø 10	_	_	•					
KC12	Ø 12	_	_	•					
M*1	A, B ports mixed	●* ²	•	•					
P, E port size (Thread piping) *1 When ports are mixed sizes, indicate the piping specifications on the manifold specification									
	C2 C4 C6 C8 KC2 KC4 KC6 KC8 KC10 KC12 M*1	C2 Ø 2 C4 Ø 4 C6 Ø 6 C8 Ø 8 KC2 Ø 2 KC4 Ø 4 KC6 Ø 6 KC8 Ø 8 KC10 Ø 10 KC12 Ø 12 M*1 A, B ports mixed P, E port size (Thread piping)	C2 Ø 2 ● C4 Ø 4 ● C6 Ø 6 − C8 Ø 8 − KC2 Ø 2 ● KC4 Ø 4 ● KC6 Ø 6 ● KC8 Ø 8 − KC10 Ø 10 − KC12 Ø 12 − M*1 A, B ports mixed ●*2 P, E port size (Thread piping) 1/8	C2 Ø 2 — C4 Ø 4 — C6 Ø 6 — C8 Ø 8 — KC2 Ø 2 — KC4 Ø 4 — KC6 Ø 6 — KC8 Ø 8 — KC10 Ø 10 — KC12 Ø 12 — P, E port size (Thread piping) 1/8	C2 Ø 2 ● − − C4 Ø 4 ● − − C6 Ø 6 − ● − C8 Ø 8 − − ● KC2 Ø 2 ● − − KC4 Ø 4 ● ● − KC6 Ø 6 ● ● ● KC8 Ø 8 − ● ● KC10 Ø 10 − − ● KC12 Ø 12 − − ● P, E port size (Thread piping) 1/8 1/4 3/8	C2 Ø 2 — — — C4 Ø 4 — — — C6 Ø 6 — — — C8 Ø 8 — — — KC2 Ø 2 — — — KC4 Ø 4 — — — KC6 Ø 6 — — — KC8 Ø 8 — — — KC10 Ø 10 — — — KC12 Ø 12 — — — P, E port size 1/8 1/4 3/8			

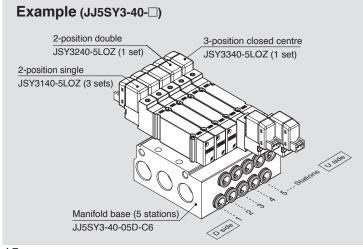
⁷ Mounting

_		Direct mounting							
D	DIN rail	DIN rail mounting (With DIN rail)							
D0		DIN rail mounting (Without DIN rail)							
D3	For 3 stations	Specify a longer rail							
:	:	than the standard							
D20	For 20 stations	length.							

- Only direct mounting is available to Type 41 (Bottom ported).
- * Refer to page 45 for the fixation of DIN rail mounting type manifold.

*2 In case of replacement of JSY1000 One-touch fitting, A and B port can only be mixed on the manifold base for KC2 and KC4.

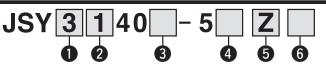
How to Order Manifold Assembly



- JJ5SY3-40-05D-C6··1 set (Type 40 5-station manifold base part no.)
- * JSY3140-5LOZ3 sets (2-position single part no.)
- * JSY3240-5LOZ······1 set (2-position double part no.)
- * JSY3340-5LOZ1 set (3-position closed centre part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.
- · The valve arrangement is numbered as the 1st station from the D
- · Under the manifold part number, state the valves to be mounted in order from the 1st station as shown in the figure. If the arrangement becomes complicated, specify on a manifold specification sheet.

Internal Pilot

How to Order Valves (With two mounting screws)





Specification External pilot

1 Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type of actuation

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

3 Coil specifications

Sy	mbol	Coil specifications	JSY1000	JSY3000	JSY5000
	-	Standard	_	•	•
	Т	With power-saving circuit (Continuous duty type)	•	•	•

- * For the JSY1000 series, only the power-saving circuit specification is available.
- Be careful of the energising time when the power-saving circuit is selected.
 For details, refer to page 45.
- * Power saving circuit is not available in the case of D□, Y□, W□, K□ type.

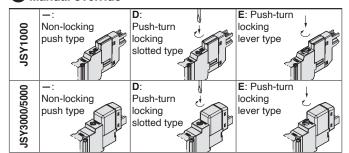
4 Electrical entry

	iecu icai enu y						
	L plug c	onnector	M plug c	onnector	DIN terminal (JSY5000 only)		
	L	LO	M	MO	D, Y	DO, YO	
JSY1000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector	_	_	
JSY3000 JSY5000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector	D, Y: With connector	DO, YO: Without connector	
8							

		M8 conr	M12 connector (JSY5000 only)			
	W□	WO	WA□	WAO	K□	КО
JSY1000	_	-	-	1	_	-
	W □: With connector cable	WO : Without connector cable		WAO: Without connector cable	ALIA ALIA	KO: Without connector cable
JSY3000 JSY5000					cable	

- *1 Refer to page 43 for the lead wire length of L and M plug connectors.
- *1 The "WAO" and "WA\(\subseteq\)" M8 connectors are IEC 60947-5-2 standard compliant.
- *1 Refer to page 45 for polarity details and the pin wiring diagram.
- *1 For connector cable of M8 connector, refer to page 44.
- *1 Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 44.
- *1 For connector cable of M12 connector, refer to page 44.
- *1 "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 49.

6 Manual override



5 Light/surge voltage suppressor Electrical entry for L, M, W, WA, K

_								
7	With	light/s	surge	volta	ge	supp	resso	r
_			(Pol	ar typ	oe)			

Electrical entry for D, Y

	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

- Only "DOS" and "YOS" are available for the S type.
- * "DOZ" and "YOZ" are not available

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

Refer to page 35 for base gasket and mounting screw part numbers.

A Caution

If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type) specifications.



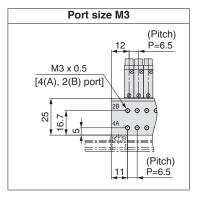
Dimensions: JSY1000 Series

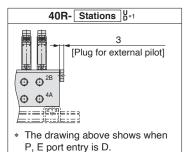
Metal Base

Non Plug-in Type 40/Side Ported Port Size: M3, M5



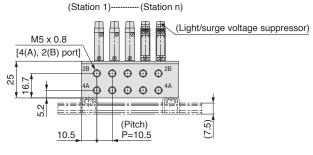
JJ5SY1-40(R)-Stations $_{\text{B}}^{\text{U}}$ - $_{\text{M5}}^{\text{M3}}\square(D)$

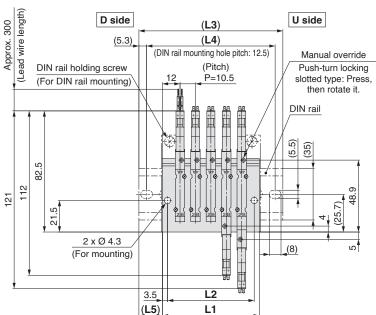


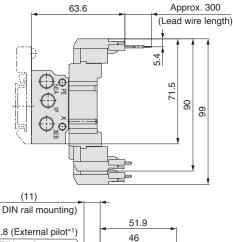


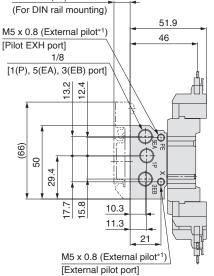
- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-40-05B-M5."

M plug connector (M)









L Dimensions: Port Size M5

n: Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L2	27.5	38.0	48.5	59.0	69.5	80.0	90.5	101.0	111.5	122.0	132.5	143.0	153.5	164.0	174.5	185.0	195.5	206.0	216.5
L3	60.5	73.0	85.5	98.0	110.5	123.0	123.0	135.5	148.0	160.5	173.0	185.5	198.0	198.0	210.5	223.0	235.5	248.0	260.5
L4	50.0	62.5	75.0	87.5	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	187.5	187.5	200.0	212.5	225.0	237.5	250.0
L5	13.0	14.0	15.0	16.0	17.0	18.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	13.5	14.5	15.5	16.5	17.5	18.5

L Dimensions: Port Size M3

n: Stations

L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	30.5	37.0	43.5	50.0	56.5	63.0	69.5	76.0	82.5	89.0	95.5	102.0	108.5	115.0	121.5	128.0	134.5	141.0	147.5
L2	23.5	30.0	36.5	43.0	49.5	56.0	62.5	69.0	75.5	82.0	88.5	95.0	101.5	108.0	114.5	121.0	127.5	134.0	140.5
L3	60.5	73.0	73.0	85.5	85.5	98.0	98.0	110.5	110.5	123.0	123.0	135.5	135.5	148.0	148.0	160.5	160.5	173.0	173.0
L4	50.0	62.5	62.5	75.0	75.0	87.5	87.5	100.0	100.0	112.5	112.5	125.0	125.0	137.5	137.5	150.0	150.0	162.5	162.5
L5	15.0	18.0	15.0	18.0	14.5	17.5	14.5	17.5	14.0	17.0	14.0	17.0	13.5	16.5	13.5	16.5	13.0	16.0	13.0

Dimensions: JSY1000 Series

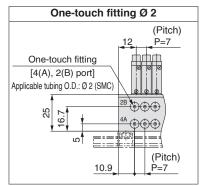
Non Plug-in Type 40/Side Ported Metal Base Port Size: Ø 2, Ø 4/Fixed

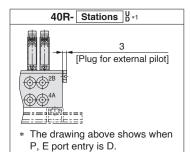


Approx. 300

90 66

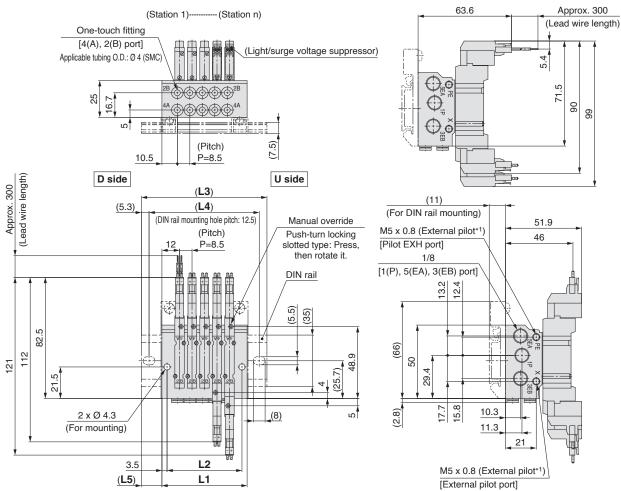
JJ5SY1-40(R)-Stations $\stackrel{\text{U}}{\text{B}}$ - $\stackrel{\text{C2}}{\text{C4}}$ \square (D)





- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-40-05B-C4."

M plug connector (M)



L Dimensions: Por	t Size	C4
-------------------	--------	----

n.	Stations
11.	Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	32.5	41.0	49.5	58.0	66.5	75.0	83.5	92.0	100.5	109.0	117.5	126.0	134.5	143.0	151.5	160.0	168.5	177.0	185.5
L2	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0	93.5	102.0	110.5	119.0	127.5	136.0	144.5	153.0	161.5	170.0	178.5
L3	60.5	73.0	85.5	85.5	98.0	110.5	110.5	123.0	135.5	135.5	148.0	160.5	160.5	173.0	185.5	185.5	198.0	210.5	223.0
L4	50.0	62.5	75.0	75.0	87.5	100.0	100.0	112.5	125.0	125.0	137.5	150.0	150.0	162.5	175.0	175.0	187.5	200.0	212.5
L5	14.0	16.0	18.0	14.0	16.0	18.0	13.5	15.5	17.5	13.5	15.5	17.5	13.0	15.0	17.0	13.0	15.0	17.0	19.0

L Dimensions: Port Size C2

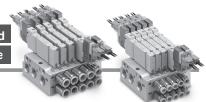
	Stations
١.	Otations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0
L2	24.0	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0
L3	60.5	73.0	73.0	85.5	85.5	98.0	110.5	110.5	123.0	123.0	135.5	135.5	148.0	148.0	160.5	173.0	173.0	185.5	185.5
L4	50.0	62.5	62.5	75.0	75.0	87.5	100.0	100.0	112.5	112.5	125.0	125.0	137.5	137.5	150.0	162.5	162.5	175.0	175.0
L5	15.0	17.5	14.0	17.0	13.5	16.0	19.0	15.5	18.0	14.5	17.5	14.0	16.5	13.0	16.0	18.5	15.0	18.0	14.5

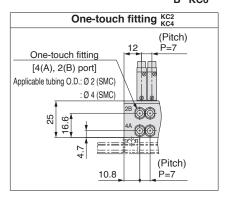
Dimensions: JSY1000 Series

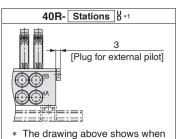
Non Plug-in **Metal Base**

Type 40/Side Ported Port Size: Ø 2, Ø 4, Ø 6/Replaceable



JJ5SY1-40(R)-Stations D-KC4 (D)

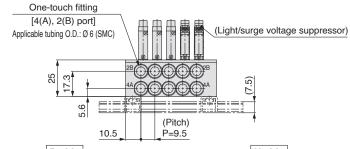


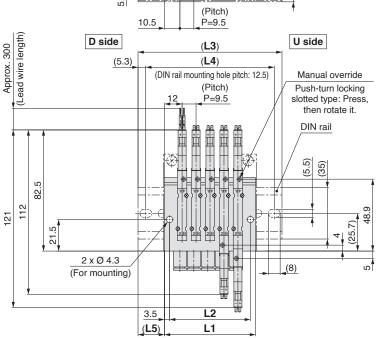


P, E port entry is D.

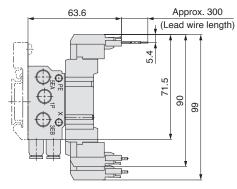
- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-40-05B-KC6."

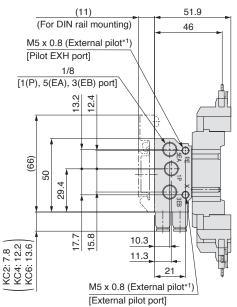






M plug connector (M)





L Dimensions: Port Size KC6

n: Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	33.5	43.0	52.5	62.0	71.5	81.0	90.5	100.0	109.5	119.0	128.5	138.0	147.5	157.0	166.5	176.0	185.5	195.0	204.5
L2	26.5	36.0	45.5	55.0	64.5	74.0	83.5	93.0	102.5	112.0	121.5	131.0	140.5	150.0	159.5	169.0	178.5	188.0	197.5
L3	60.5	73.0	85.5	98.0	98.0	110.5	123.0	135.5	135.5	148.0	160.5	173.0	173.0	185.5	198.0	210.5	223.0	223.0	235.5
L4	50.0	62.5	75.0	87.5	87.5	100.0	112.5	125.0	125.0	137.5	150.0	162.5	162.5	175.0	187.5	200.0	212.5	212.5	225.0
L5	13.5	15.0	16.5	18.0	13.5	15.0	16.5	18.0	13.0	14.5	16.0	17.5	13.0	14.5	16.0	17.5	19.0	14.0	15.5

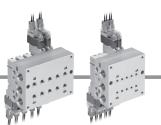
L Dimensions: Port Sizes KC2, KC4

n: Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0
L2	24.0	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0
L3	60.5	73.0	73.0	85.5	85.5	98.0	110.5	110.5	123.0	123.0	135.5	135.5	148.0	148.0	160.5	173.0	173.0	185.5	185.5
L4	50.0	62.5	62.5	75.0	75.0	87.5	100.0	100.0	112.5	112.5	125.0	125.0	137.5	137.5	150.0	162.5	162.5	175.0	175.0
L5	15.0	17.5	14.0	17.0	13.5	16.0	19.0	15.5	18.0	14.5	17.5	14.0	16.5	13.0	16.0	18.5	15.0	18.0	14.5

Dimensions: JSY1000 Series

Non Plug-in Type 41/Bottom Ported Metal Base Port Size: M3, M5

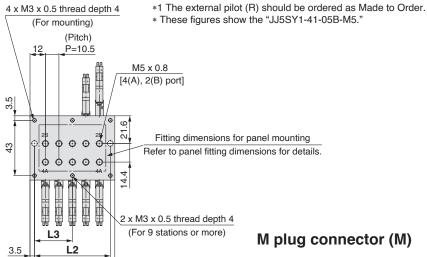


JJ5SY1-41(R)-Stations P-M3 -M5

L1

(Station 1)----(Station n)

22

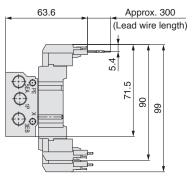


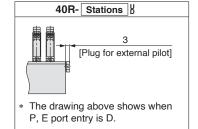
(Light/surge voltage suppressor)

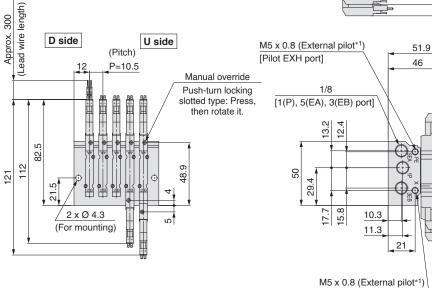
2 x Ø 3.5 (For 9 stations or more) 8 43 36 2 x M4 x 0.7 2 x Ø 4.3 4 x Ø 3.5 3.5 L2

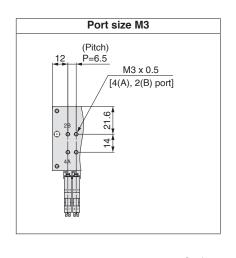
Panel fitting dimensions

M plug connector (M)









L Dime	nsior	ns: Po	ort Siz	e M5														n: 9	Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L2	27.5	38.0	48.5	59.0	69.5	80.0	90.5	101.0	111.5	122.0	132.5	143.0	153.5	164.0	174.5	185.0	195.5	206.0	216.5
L3	_	_	_	_	_	_	_	50.5	55.8	61.0	66.3	71.5	76.8	82.0	87.3	92.5	97.8	103.0	108.3

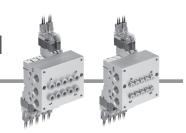
[External pilot port]

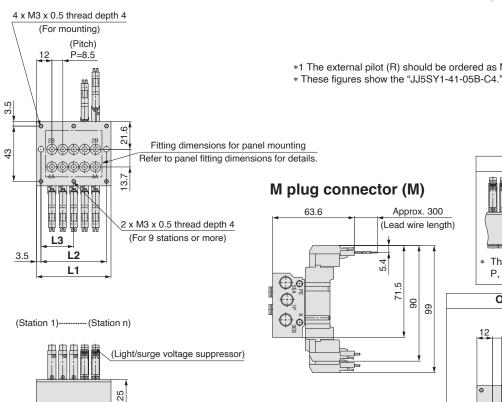
L Dime	ensio	ns: Po	ort Siz	ze M3														n: \$	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	30.5	37.0	43.5	50.0	56.5	63.0	69.5	76.0	82.5	89.0	95.5	102.0	108.5	115.0	121.5	128.0	134.5	141.0	147.5
L2	23.5	30.0	36.5	43.0	49.5	56.0	62.5	69.0	75.5	82.0	88.5	95.0	101.5	108.0	114.5	121.0	127.5	134.0	140.5
L3	-	_	_	_	_	_	_	34.5	37.8	41.0	44.3	47.5	50.8	54.0	57.3	60.5	63.8	67.0	70.3

Non Plug-in Type 41/Bottom Ported Metal Base Port Size: Ø 2, Ø 4/Fixed

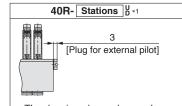
Dimensions: JSY1000 Series

JJ5SY1-41(R)-Stations $\stackrel{\text{U}}{P}$ - $\stackrel{\text{C2}}{C4}$

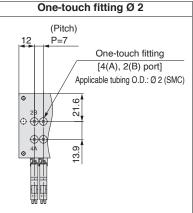


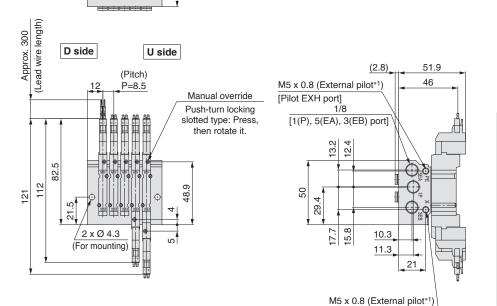


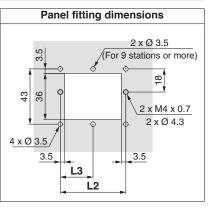
- *1 The external pilot (R) should be ordered as Made to Order.



The drawing above shows when P, E port entry is D.







L Dimensions: Port Size C4

n: Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	32.5	41.0	49.5	58.0	66.5	75.0	83.5	92.0	100.5	109.0	117.5	126.0	134.5	143.0	151.5	160.0	168.5	177.0	185.5
L2	25.5	34.0	42.5	51.0	59.5	68.0	76.5	85.0	93.5	102.0	110.5	119.0	127.5	136.0	144.5	153.0	161.5	170.0	178.5
L3	_	_	_	_	_	_	_	42.5	46.8	51.0	55.3	59.5	63.8	68.0	72.3	76.5	80.8	85.0	89.3

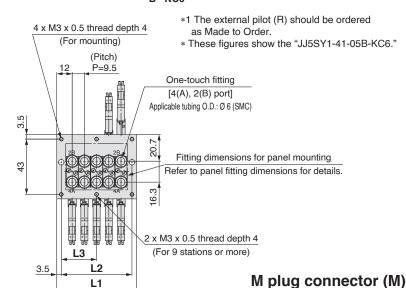
[External pilot port]

L Dime	ensior	ns: Po	ort Siz	e C2														n: 8	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0
L2	24.0	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0
L3	_	_	_	_	_	_	_	36.5	40.0	43.5	47.0	50.5	54.0	57.5	61.0	64.5	68.0	71.5	75.0

Dimensions: JSY1000 Series

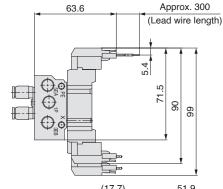
Non Plug-in Type 41/Bottom Ported Metal Base Port Size: Ø 2, Ø 4, Ø 6/Replaceable

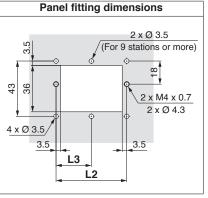
JJ5SY1-41(R)-Stations D - KC2 - KC4 - KC6

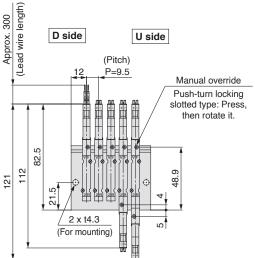


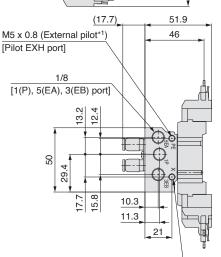
One-touch fitting KC2 KC2: 11.9 KC4: 16.3 One-touch fitting [4(A), 2(B) port] Applicable tubing O.D.: Ø 2 (SMC) : Ø 4 (SMC) ۲۶, 5.3

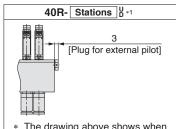
(Station 1)----(Station n) (Light/surge voltage suppressor) 25











* The drawing above shows when P, E port entry is D.

L Dimensions: Port Size KC6

M5 x 0.8 (External pilot*1) [External pilot port]

L Dime	ensio	ns: Po	ort Siz	e KC	6				[EXI	ernai piid	ot portj							n: 5	Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	33.5	43.0	52.5	62.0	71.5	81.0	90.5	100.0	109.5	119.0	128.5	138.0	147.5	157.0	166.5	176.0	185.5	195.0	204.5
L2	26.5	36.0	45.5	55.0	64.5	74.0	83.5	93.0	102.5	112.0	121.5	131.0	140.5	150.0	159.5	169.0	178.5	188.0	197.5
1.3	_		_	_	_	_	_	46.5	51.3	56.0	60.8	65.5	70.3	75.0	79.8	84.5	89.3	94 0	98.8

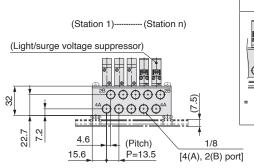
L Dime	ensior	ns: Po	ort Siz	es Ko	C2, K(C4												n: \$	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0
L2	24.0	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0
L3	_	_	_	_	_	_	_	36.5	40.0	43.5	47.0	50.5	54.0	57.5	61.0	64.5	68.0	71.5	75.0

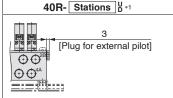
Dimensions: JSY3000 Series

Non Plug-in Metal Base Type **40/Side** Ported Port Size: M5, 1/8

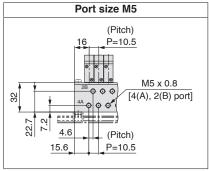


JJ5SY3-40(R)-Stations $\stackrel{\text{U}}{\mathbb{R}}$ - $\stackrel{\text{M5}}{_{01}}\square(D)$

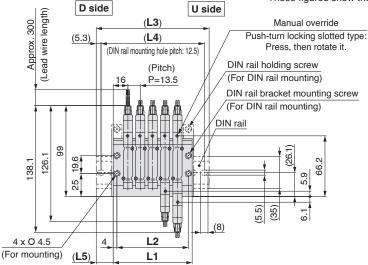


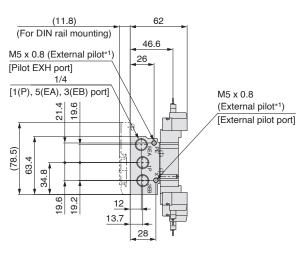


* The drawing above shows when P, E port entry is D.

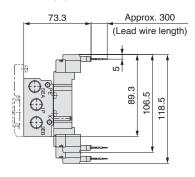


- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-40-05-01."

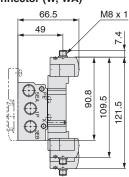




M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Size 01 (1/8)

n: Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	45.5	59.0	72.5	86.0	99.5	113.0	126.5	140.0	153.5	167.0	180.5	194.0	207.5	221.0	234.5	248.0	261.5	275.0	288.5
L2	37.5	51.0	64.5	78.0	91.5	105.0	118.5	132.0	145.5	159.0	172.5	186.0	199.5	213.0	226.5	240.0	253.5	267.0	280.5
L3	73.0	85.5	110.5	123.0	135.5	148.0	160.5	173.0	185.5	198.0	210.5	223.0	235.5	248.0	273.0	285.5	298.0	310.5	323.0
L4	62.5	75.0	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	200.0	212.5	225.0	237.5	262.5	275.0	287.5	300.0	312.5
L5	14.0	13.5	19.0	18.5	18.0	17.5	17.0	16.5	16.0	15.5	15.0	14.5	14.0	13.5	19.5	19.0	18.5	18.0	17.5

L Dimensions: Port Size M5

n: Stations

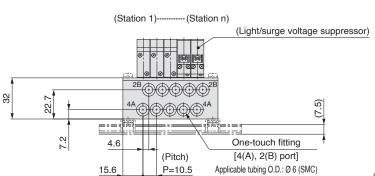
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	73.0	85.5	98.0	110.5	123.0	123.0	135.5	148.0	160.5	173.0	185.5	185.5	198.0	210.5	223.0	235.5	248.0	248.0	260.5
L4	62.5	75.0	87.5	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5	250.0
L5	15.5	16.5	17.5	18.5	19.5	14.0	15.0	16.0	17.0	18.0	19.0	14.0	15.0	16.0	17.0	18.0	19.0	13.5	14.5

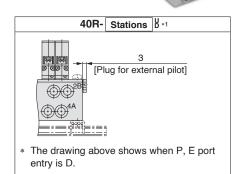
Non Plug-in Type 40/Side Ported

Metal Base Port Size: Ø 6/Fixed

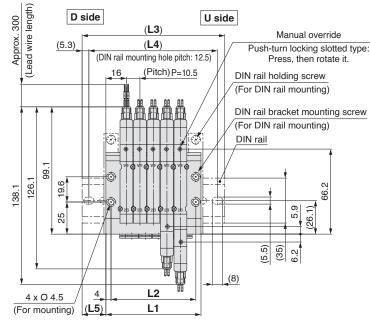
Dimensions: JSY3000 Series

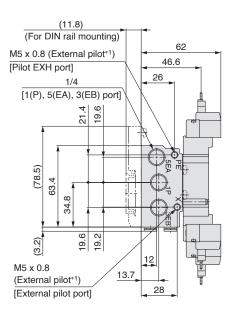
JJ5SY3-40(R)-Stations D-C6 (D)



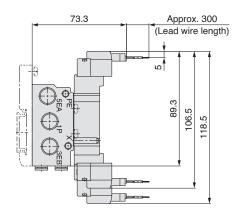


- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-40-05-C6."

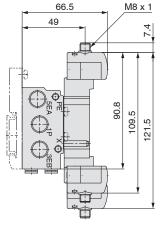




M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Size C6

n·	Stations
н.	Stations

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	73.0	85.5	98.0	110.5	123.0	123.0	135.5	148.0	160.5	173.0	185.5	185.5	198.0	210.5	223.0	235.5	248.0	248.0	260.5
L4	62.5	75.0	87.5	100.0	112.5	112.5	125.0	137.5	150.0	162.5	175.0	175.0	187.5	200.0	212.5	225.0	237.5	237.5	250.0
L5	15.5	16.5	17.5	18.5	19.5	14.0	15.0	16.0	17.0	18.0	19.0	14.0	15.0	16.0	17.0	18.0	19.0	13.5	14.5

Non Plug-in Metal Base

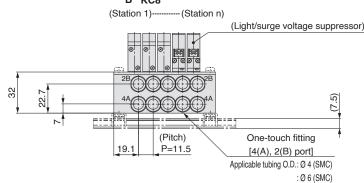
Type **40/Side** Ported Port Size: Ø 4, Ø 6, Ø 8/Replaceable



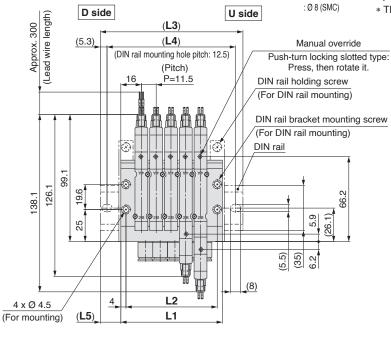
n: Stations

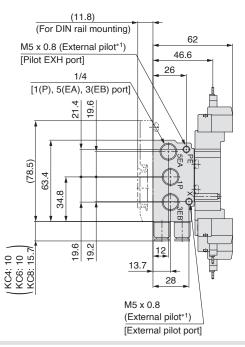
Dimensions: JSY3000 Series

JJ5SY3-40(R)-Stations D-KC4 (D)



- * The drawing above shows when P, E port
- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-40-05-KC8."

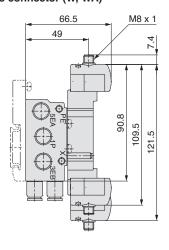




M plug connector (M)

73.3 Approx. 300 (Lead wire length)

M8 connector (W, WA)



L Dimensions: Port Sizes KC4, KC6, KC8

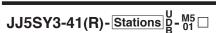
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	44.5	56.0	67.5	79.0	90.5	102.0	113.5	125.0	136.5	148.0	159.5	171.0	182.5	194.0	205.5	217.0	228.5	240.0	251.5
L2	36.5	48.0	59.5	71.0	82.5	94.0	105.5	117.0	128.5	140.0	151.5	163.0	174.5	186.0	197.5	209.0	220.5	232.0	243.5
L3	73.0	85.5	98.0	110.5	123.0	135.5	148.0	160.5	173.0	185.5	198.0	198.0	210.5	223.0	235.5	248.0	260.5	273.0	285.5
L4	62.5	75.0	87.5	100.0	112.5	125.0	137.5	150.0	162.5	175.0	187.5	187.5	200.0	212.5	225.0	237.5	250.0	262.5	275.0
L5	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5	19.0	19.5	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0

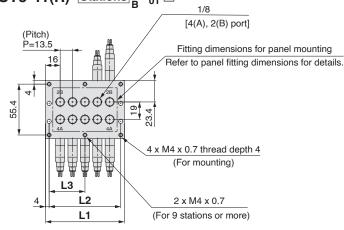
Dimensions: JSY3000 Series

Metal Base Port Size: M5, 1/8

Non Plug-in Type 41/Bottom Ported



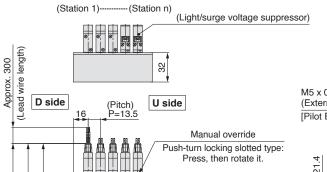




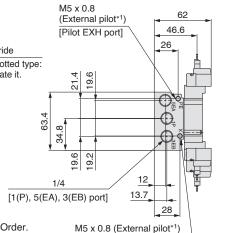
[Plug for external pilot] * The drawing above shows when P, E port entry is D.

Panel fitting dimensions 2 x Ø 4.5 (For 9 stations or more) 7 55.4 47 x M4 x 0.7 4 x Ø 4.5 4 x Ø 4.5 L2

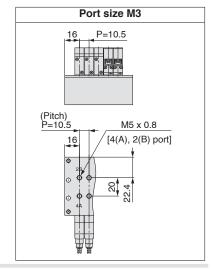
41R- Stations D *1



66.



[External pilot port]



- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-41-05-01."

4 x Ø 4.5

(For mounting)

99

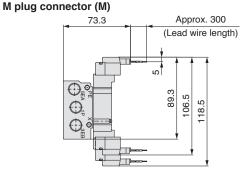
19.6

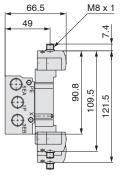
25

126.1

138.1

M8 connector (W, WA)





L Dimensions: Port Size 01 (1/8)

L Dime	ensior	ns: Po	ort Siz	e 01 ((1/8)								ij.					n: 5	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	45.5	59.0	72.5	86.0	99.5	113.0	126.5	140.0	153.5	167.0	180.5	194.0	207.5	221.0	234.5	248.0	261.5	275.0	288.5
L2	37.5	51.0	64.5	78.0	91.5	105.0	118.5	132.0	145.5	159.0	172.5	186.0	199.5	213.0	226.5	240.0	253.5	267.0	280.5
L3	_	_	_	_	_	_	_	66.0	72.8	79.5	86.3	93.0	99.8	106.5	113.3	120.0	126.8	133.5	140.3

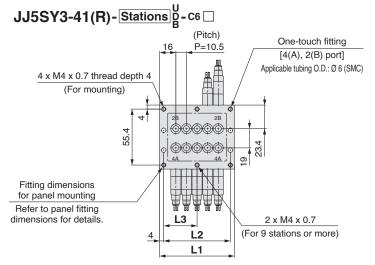
L Dime	ensio	ns: Po	ort Siz	e M5														n: :	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	_	_	_	_	_	_	_	54.0	59.3	64.5	69.8	75.0	80.3	85.5	90.8	96.0	101.3	106.5	111.8

Metal Base Port Size: Ø 6/Fixed

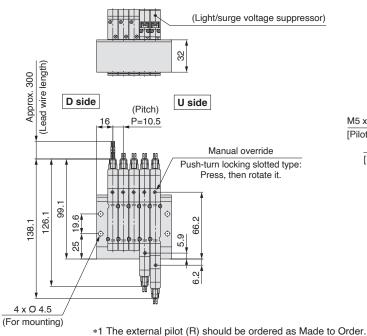
Non Plug-in Type 41/Bottom Ported



Dimensions: JSY3000 Series

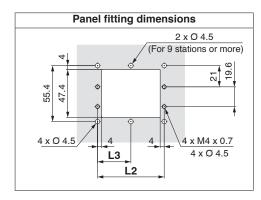


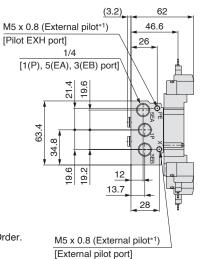
(Station 1)----(Station n)



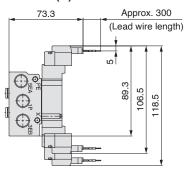
* These figures show the "JJ5SY3-41-05-C6."

41R- Stations 3 *1 [Plug for external pilot] * The drawing above shows when P, E port entry is D.

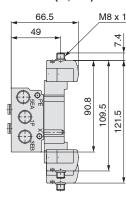




M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Size C6

n·	Stations
11.	Stations

L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	_	ı	_	_	-	_	_	54.0	59.3	64.5	69.8	75.0	80.3	85.5	90.8	96.0	101.3	106.5	111.8

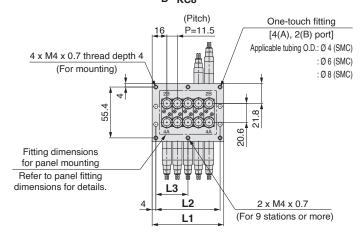
Non Plug-in Metal Base

Type **41/Bottom** Ported Port Size: Ø 4, Ø 6, Ø 8/Replaceable

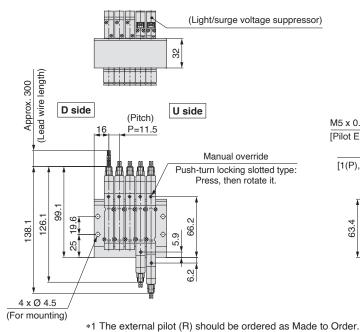


Dimensions: JSY3000 Series

JJ5SY3-41(R)-Stations D-KC4 C8

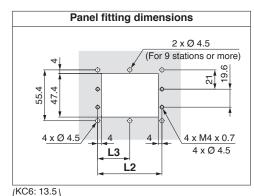


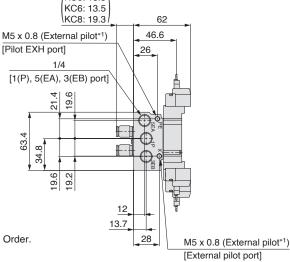
(Station 1)----(Station n)



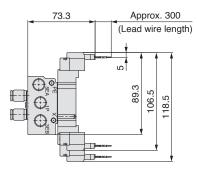
* These figures show the "JJ5SY3-41-05-KC8."

* The drawing above shows when P, E port entry is D.

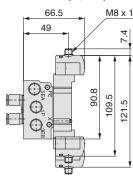




M plug connector (M)



M8 connector (W, WA)



L Dimensions: Port Sizes KC4, KC6, KC8

n:	Stations
	Ottations

L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	43.5	55.0	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	170.0	181.5	193.0	204.5	216.0	227.5	239.0	250.5
L2	35.5	47.0	58.5	70.0	81.5	93.0	104.5	116.0	127.5	139.0	150.5	162.0	173.5	185.0	196.5	208.0	219.5	231.0	242.5
L3	_	_	_	_	_	_	_	58.0	63.8	69.5	75.3	81.0	86.8	92.5	98.3	104.0	109.8	115.5	121.3

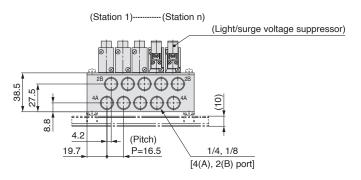
Non Plug-in Metal Base

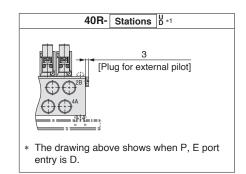
Type **40/Side** Ported Port Size: 1/8, 1/4



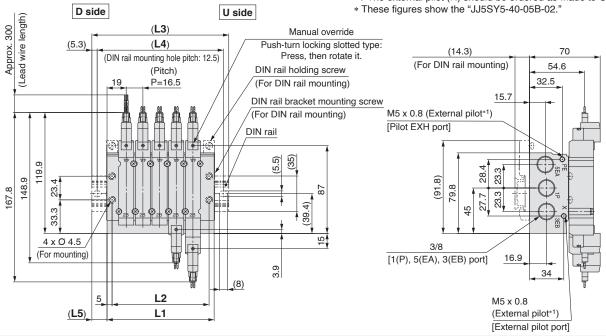
Dimensions: JSY5000 Series

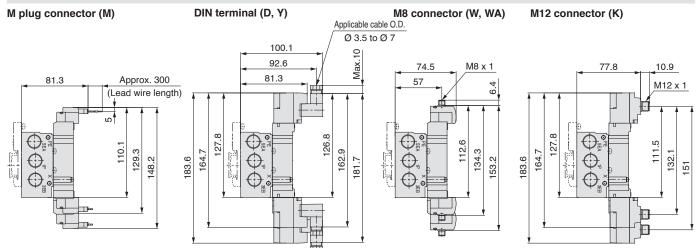
JJ5SY5-40(R)-Stations $\stackrel{\text{U}}{\mathbb{P}}$ - $\stackrel{\text{O1}}{\mathbb{P}}$ \square (D)





*1 The external pilot (R) should be ordered as Made to Order.





L Dimensions: Port Sizes 01 (1/8)	. 02 ((1/4)
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_	חווופ	HISIOI	15: PC	ort Siz	esui	(1/0)	, UZ (I	74)											n: 8	Stations
L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	L1	56.5	73.0	89.5	106.0	122.5	139.0	155.5	172.0	188.5	205.0	221.5	238.0	254.5	271.0	287.5	304.0	320.5	337.0	353.5
	L2	46.5	63.0	79.5	96.0	112.5	129.0	145.5	162.0	178.5	195.0	211.5	228.0	244.5	261.0	277.5	294.0	310.5	327.0	343.5
	L3	85.5	98.0	123.0	135.5	148.0	173.0	185.5	198.0	223.0	235.5	248.0	273.0	285.5	298.0	323.0	335.5	348.0	373.0	385.5
	L4	75.0	87.5	112.5	125.0	137.5	162.5	175.0	187.5	212.5	225.0	237.5	262.5	275.0	287.5	312.5	325.0	337.5	362.5	375.0
	L5	14.5	12.5	17.0	15.0	13.0	17.0	15.0	13.0	17.5	15.5	13.5	17.5	15.5	13.5	18.0	16.0	14.0	18.0	16.0

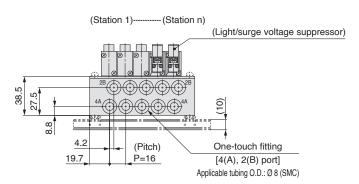
Type 40/Side Ported Non Plug-in Port Size: Ø 8/Fixed

Metal Base

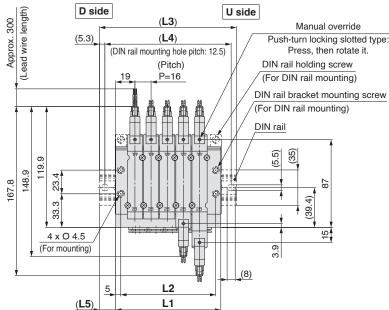


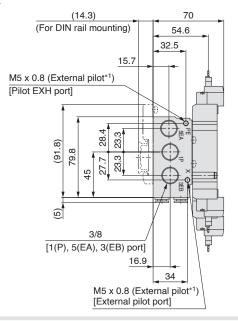
Dimensions: JSY5000 Series

JJ5SY5-40(R)-Stations D-C8 (D)



- 40R- Stations D +1 [Plug for external pilot] The drawing above shows when P, E port entry is D.
- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-40-05B-C8."





DIN terminal (D, Y) M plug connector (M) M12 connector (K) M8 connector (W, WA) Applicable cable O.D. Ø 3.5 to Ø 7 100.1 92.6 10.9 Max. 74.5 77.8 M8 x 1 81.3 81.3 Approx. 300 57 M12 x 1 (Lead wire length) 127.8 126.8 111.5 127 110.1 162.9 134.3 129.3 164.7 164.7 53.2 148.2 83.6 183.6 32. 181.7 151

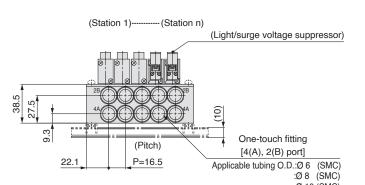
L Dimensions: Port Size C8 n: Stations 2 4 5 7 9 11 14 20 3 6 8 10 12 13 15 16 17 18 19 L1 344.0 104.0 120.0 136.0 152.0 168.0 184.0 200.0 216.0 232.0 248.0 264.0 280.0 312.0 56.0 72.0 88.0 296.0 328.0 L2 46.0 110.0 334.0 62.0 94.0 126.0 142.0 158.0 174.0 190.0 206.0 222.0 238.0 254.0 270.0 302.0 78.0 286.0 318.0 L3 148.0 223.0 85.5 98.0 135.5 160.5 185.5 198.0 210.5 248.0 260.5 273.0 298.0 310.5 348.0 360.5 373.0 123.0 323.0 L4 75.0 200.0 350.0 362.5 87.5 112.5 125.0 137.5 150.0 175.0 187.5 212.5 237.5 250.0 262.5 287.5 300.0 312.5 337.5 L5 15.0 13.0 17.5 16.0 14.0 12.5 17.0 15.0 13.5 11.5 16.0 14.5 12.5 17.0 15.5 13.5 18.0 16.5 14.5

Metal Base Port Size: Ø 6, Ø 8, Ø 10, Ø 12/Replaceable

Non Plug-in Type 40/Side Ported

Dimensions: JSY5000 Series

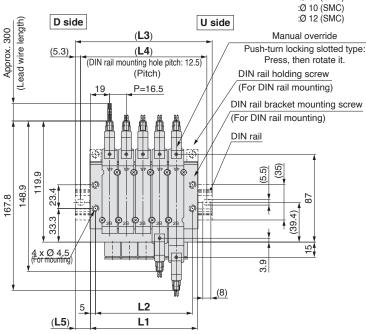
JJ5SY5-40(R)-Stations

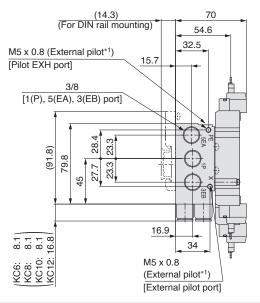


- 40R- Stations D +1 [Plug for external pilot] * The drawing above shows when P, E port
- *1 The external pilot (R) should be ordered as Made to Order.

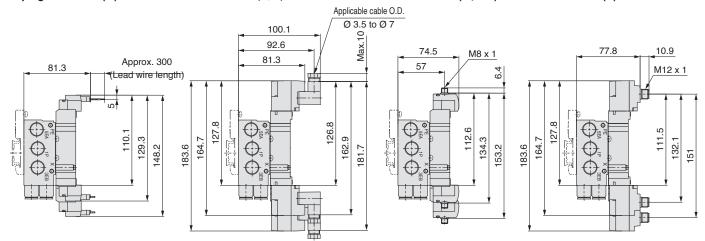
entry is D.

* These figures show the "JJ5SY5-40-05B-KC12."





M plug connector (M) DIN terminal (D, Y) M8 connector (W, WA) M12 connector (K)

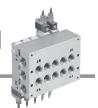


31

L Dimensions: Port Sizes KC6, KC8, KC10, KC12														n: \$	Stations				
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	56.5	73.0	89.5	106.0	122.5	139.0	155.5	172.0	188.5	205.0	221.5	238.0	254.5	271.0	287.5	304.0	320.5	337.0	353.5
L2	46.5	63.0	79.5	96.0	112.5	129.0	145.5	162.0	178.5	195.0	211.5	228.0	244.5	261.0	277.5	294.0	310.5	327.0	343.5
L3	85.5	98.0	123.0	135.5	148.0	173.0	185.5	198.0	223.0	235.5	248.0	273.0	285.5	298.0	323.0	335.5	348.0	373.0	385.5
L4	75.0	87.5	112.5	125.0	137.5	162.5	175.0	187.5	212.5	225.0	237.5	262.5	275.0	287.5	312.5	325.0	337.5	362.5	375.0
L5	14.5	12.5	17.0	15.0	13.0	17.0	15.0	13.0	17.5	15.5	13.5	17.5	15.5	13.5	18.0	16.0	14.0	18.0	16.0

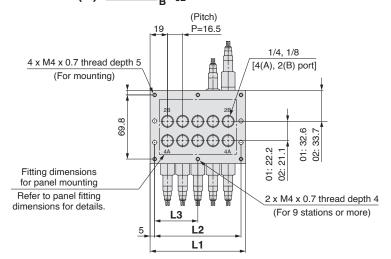
Non Plug-in **Metal Base**

Type 41/Bottom Ported Port Size: 1/8, 1/4

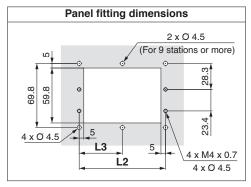


Dimensions: JSY5000 Series

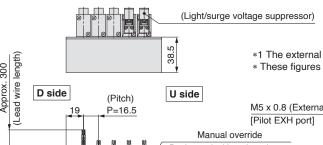
JJ5SY5-41(R)-Stations $^{\circ}_{\mathsf{R}}$ - $^{\circ 1}_{\circ 2}$

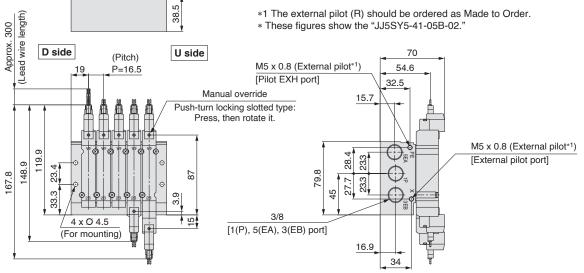


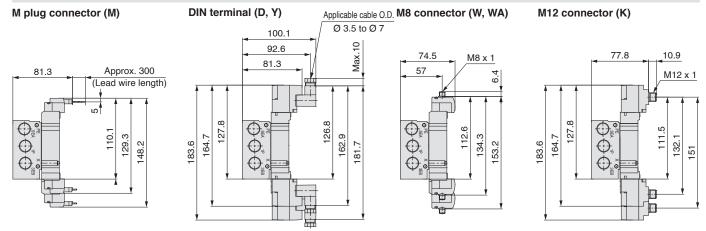
41R- Stations 1 *1 [Plug for external pilot] * The drawing above shows when P, E port entry is D.







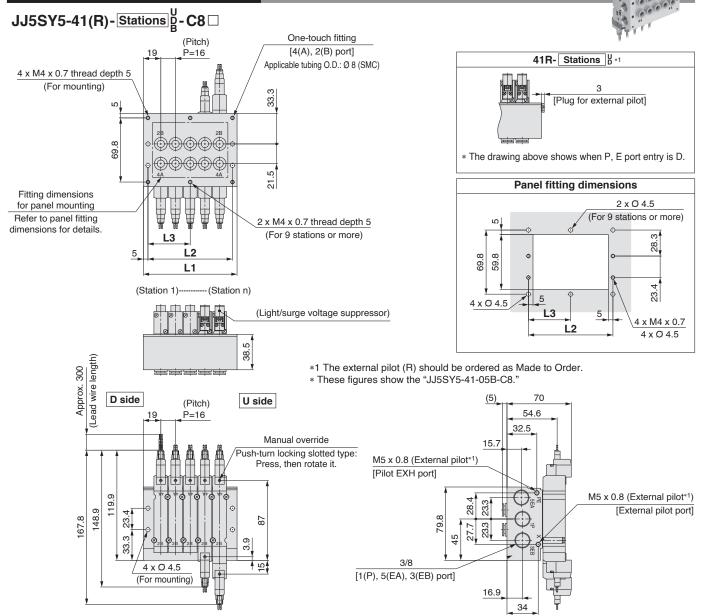


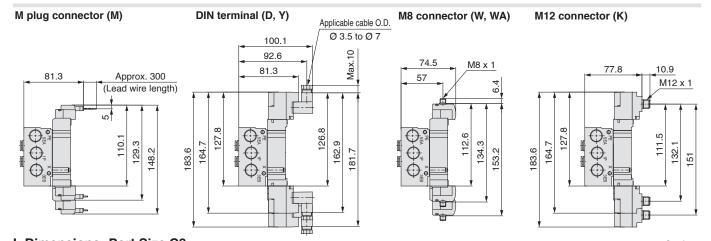


L Dime	ensior	ns: Po	rt Siz	es 01	(1/8)	, 02 (1	/4)											n: \$	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	54.5	71.0	87.5	104.0	120.5	137.0	153.5	170.0	186.5	203.0	219.5	236.0	252.5	269.0	285.5	302.0	318.5	335.0	351.5
L2	44.5	61.0	77.5	94.0	110.5	127.0	143.5	160.0	176.5	193.0	209.5	226.0	242.5	259.0	275.5	292.0	308.5	325.0	341.5
L3	_	_	_	_	_	_	_	80.0	88.3	96.5	104.8	113.0	121.3	129.5	137.8	146.0	154.3	162.5	170.8

Type 41/Bottom Ported Non Plug-in **Metal Base** Port Size: Ø 8/Fixed

Dimensions: JSY5000 Series





L Dime	ensioi	ns: Po	ort Siz	ze C8														n: 8	Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	54.0	70.0	86.0	102.0	118.0	134.0	150.0	166.0	182.0	198.0	214.0	230.0	246.0	262.0	278.0	294.0	310.0	326.0	342.0
L2	44.0	60.0	76.0	92.0	108.0	124.0	140.0	156.0	172.0	188.0	204.0	220.0	236.0	252.0	268.0	284.0	300.0	316.0	332.0
L3	_	_	_	_	_	_	_	78.0	86.0	94.0	102.0	110.0	118.0	126.0	134.0	142.0	150.0	158.0	166.0
33									Ca C	NAC									

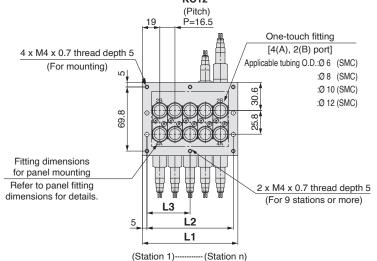
Metal Base Port Size: Ø 6,Ø 8, Ø 10, Ø 12/Replaceable

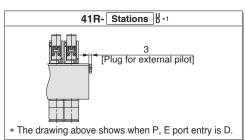
Non Plug-in Type 41/Bottom Ported

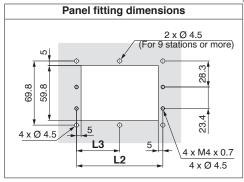


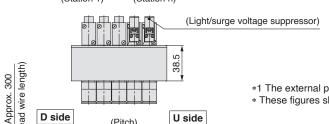
Dimensions: JSY5000 Series

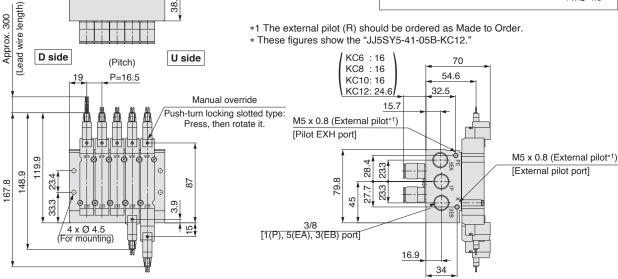


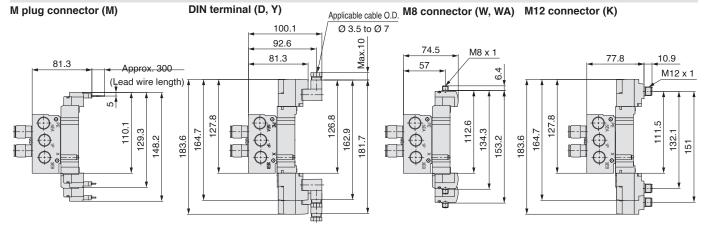








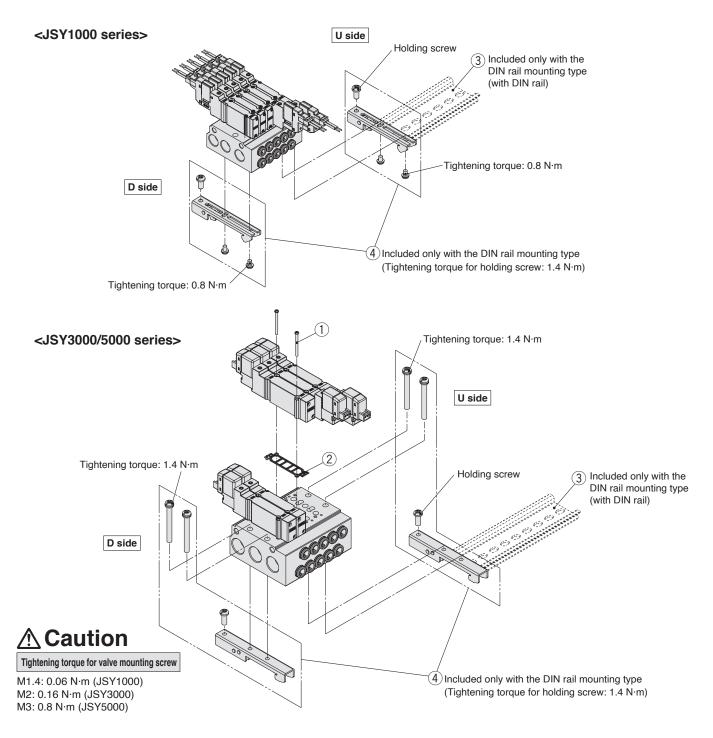




L Dimensions: Port Sizes KC6, KC8, KC10, KC12

	5113101	15. FC	JI L 312	.C3 IV	50, K	20, K	, 10, r	CIZ										П. ч	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	54.5	71.0	87.5	104.0	120.5	137.0	153.5	170.0	186.5	203.0	219.5	236.0	252.5	269.0	285.5	302.0	318.5	335.0	351.5
L2	44.5	61.0	77.5	94.0	110.5	127.0	143.5	160.0	176.5	193.0	209.5	226.0	242.5	259.0	275.5	292.0	308.5	325.0	341.5
L3	_	_	_	_	_	_	_	80.0	88.3	96.5	104.8	113.0	121.3	129.5	137.8	146.0	154.3	162.5	170.8

JSY1000/3000/5000 Series Type 40, 41 Non Plug-in Metal Base Manifold Exploded View



Manifold Parts Nos.

No.	Description		Part number		Note
INO.	Description	JSY1000	JSY3000	JSY5000	Note
1	Valve mounting screw	JSY11V-23-1A (M1.4 x 21.5)	JSY31V-23-4A (M2 x 22)	JSY51V-23-4A (M3 x 27)	Part numbers shown on the left are for 10 valves. (20 pcs.)
2	Base gasket	JSY11M-11-1A	JSY31M-11-1A	JSY51M-11-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)
3	DIN rail	VZ1000-11-1-□	VZ1000-11-1-□	VZ1000-11-4-□	Refer to page 37.
4	Clamp bracket	JSY11M-15-1A	JSY31M-15-1A	JSY51M-15-1A	Part numbers shown on the left are for one manifold. (2 sets of clamp brackets)



One-touch Fittings, Clip, Port Plate, Tube Releasing Tool Refer to "How to Replace One-touch Fittings" on page 44 for the replacement method.

■ One-touch Fittings

Port siz	е	JSY1000	JSY3000	JSY5000	Note	
	Ø2 KO		_	_		
	Ø 4	KQSY10-C4-X1336	KQSY30-C4	_		
A B port	B port Ø 6 KQSY11-C6 Ø 8 -		KQSY30-C6	KQSY50-C6	Part number is for one piece.	
A, B port			KQSY30-C8	KQSY50-C8	(Sales unit: 10 pcs.)	
	Ø 10	_	_	KQSY50-C10		
	Ø 12	_	_	KQSY50-C12-X1336		

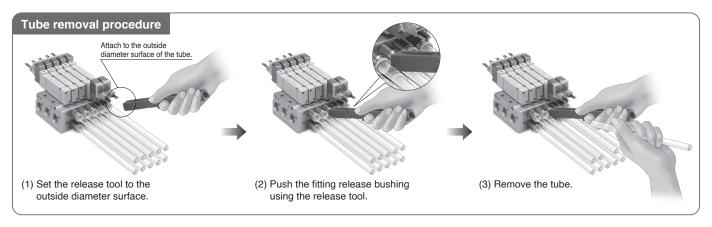
■Clip, Port Plate

	JSY	1000			
	For A, B port KC2/KC4 fittings	For A, B port KC6 fittings	JSY3000	JSY5000	Note
Clip	JSY11M-19-4A	JSY11M-19-3A	JSY31M-19-3A	JSY51M-19-3A	Part number is for 10 pieces.
Port plate	JSY11M-10-4A	JSY11M-10-3A	JSY31M-10-3A	JSY51M-10-3A	Part number is for 10 pieces.

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

Part number	TG-0204	TG-0608	TG-1012	
Applicable tubing O.D.	Ø 2/Ø 4	Ø 6/Ø 8	Ø 10/Ø 12	



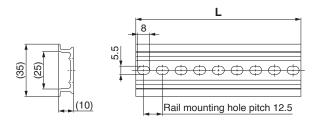


JSY1000/3000/5000 Series Manifold Options

■ DIN rail dimensions/weight for the JSY1000/3000 Non Plug-in metal 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 □.

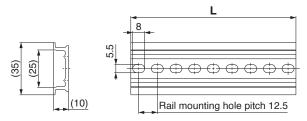


No.	S3	S2	S1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L dimension	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5
Weight [g]	10.9	13.1	15.4	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4
No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
L dimension	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523
Weight [g]	53.6	55.9	58.1	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
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
L dimension	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5
Weight [g]	96.4	98.6	100.9	103.1	105.4	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9	130.1	132.4	134.6	136.9
No.	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
L dimension	773	785.5	798	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]	139.1	141.4	143.6	145.9	148.1	150.4	152.6	154.9	157.1	159.4	161.6	163.9	166.1	168.4	170.6	172.9	175.1	177.4	-

■ DIN rail dimensions/weight for the JSY5000 Non Plug-in metal 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 .



NI-	04	_	-		_	4	_	_	7	_	_	40	4.4	40	40	4.4	4.5	40	47
No.	S1	0	1	2	3	4	5	6	/	8	9	10	11	12	13	14	15	16	17
L dimension	85.5	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
Weight [g]	21.7	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
No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
L dimension	323	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
Weight [g]	81.7	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
No.	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
L dimension	560.5	573	585.5	598	610.5	623	COLL	0.40											705.5
			000.0	550	010.5	023	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5	773	785.5
Weight [g]	141.8	145	148.1	151.3	154.5	157.6	160.8	163.9	167.1	673 170.3	685.5 173.4	698 176.6	710.5 179.8	723 182.9	735.5 186.1	748 189.2	760.5 192.4	773 195.6	198.7
Weight [g] No.	141.8 56															_			
- 10.		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			



Manifold Options JSY1000/3000/5000 Series

* Refer to page 39 for dimensions.

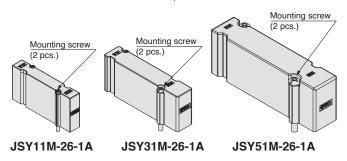
↑ Caution Tightening torque for mounting screw M1.4: 0.06 N·m (JSY1000) M2: 0.16 N·m (JSY3000) M3: 0.8 N·m (JSY5000)

Manifold Options

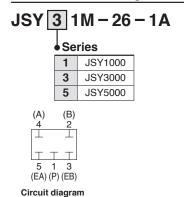
■ Blanking plate

[With two mounting screws]

Used when valve additions are expected or for maintenance.



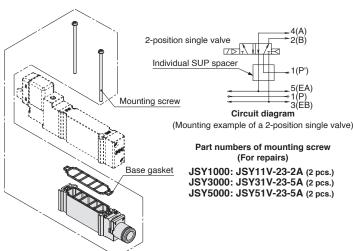
How to Order Blanking Plates



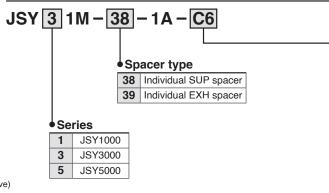
■Individual SUP spacer

[With a base gasket and two mounting screws]

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



How to Order Individual SUP/EXH Spacers

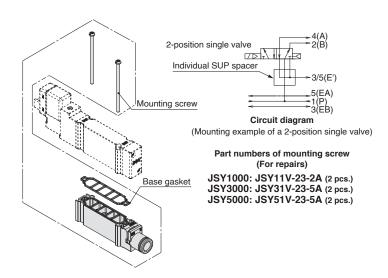


Symbol	P, E port	JSY1000	JSY3000	JSY5000
C4	Ø 4 One-touch fitting	•	_	_
C6	Ø 6 One-touch fitting	_	•	_
C8	Ø 8 One-touch fitting	_	_	•
C10	Ø 10 One-touch fitting	_	_	•
C12	Ø 12 One-touch fitting	_	_	•

■Individual EXH spacer

[With a base gasket and two mounting screws]

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



⚠ Caution

Tightening torque for mounting screw M1.4: 0.06 N·m (JSY1000)

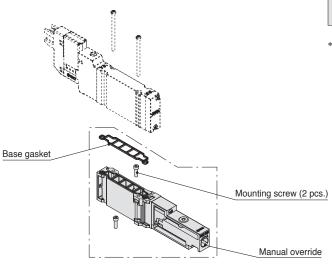
Manifold Options

* Refer to page 39-1 for dimensions.

■SUP stop valve spacer with residual pressure release valve

[With a base gasket and two mounting screws]

It is used to shut off the supply air to valves individually.



Part numbers of mounting screw (For repairs)

JSY1000: Z2-SR1-A (10 pcs.)

[How to mount SUP stop valve spacer with residual pressure release valve]

Mount the base gasket (manifold part) to the SUP stop valve manifold base side. Insert the SUP stop valve mounting screw into the spacer screw hole, and mount it to the manifold base.

Tighten the SUP stop valve mounting screw to the specified tightening torque. After mounting the SUP stop valve spacer with a residual pressure release valve, mount the valve and tighten the valve mounting screws to the specified tightening torque.

- * Be aware that the square nut may come off. If the square nut comes off, attach it to the spacer as shown in the drawing.
- * Tightening with a hexagon wrench is possible with the square nut attached.
- * This product is only for internal pilot specifications, as the external pilot air cannot be shut off
- * If the product is equipped with a 3-position closed center, residual pressure cannot be released, so use in combination with a 3-port valve, which can be connected to the 4(A), 2(B) piping port.
- * Note that other spacer combinations are not possible.

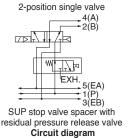
JSY11M-50-1A

Manual	Push-turn locking
override	slotted type

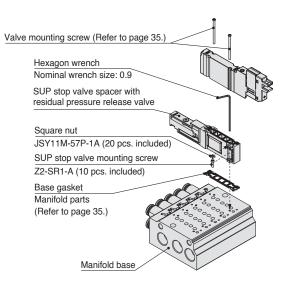
* If you want to lock the manual override, push it down until it stops, and then turn it 90° clockwise. Be careful to avoid turning it without pushing it all the way down as this may result in spacer damage, air leakage, or another form of malfunction.

* Only compatible when the JSY1000 series 4(A), 2(B) ports are port size M5 or KC6

To release the manual override, turn it counterclockwise. When turning the manual override, do not apply more torque than necessary. (0.1 N·m)



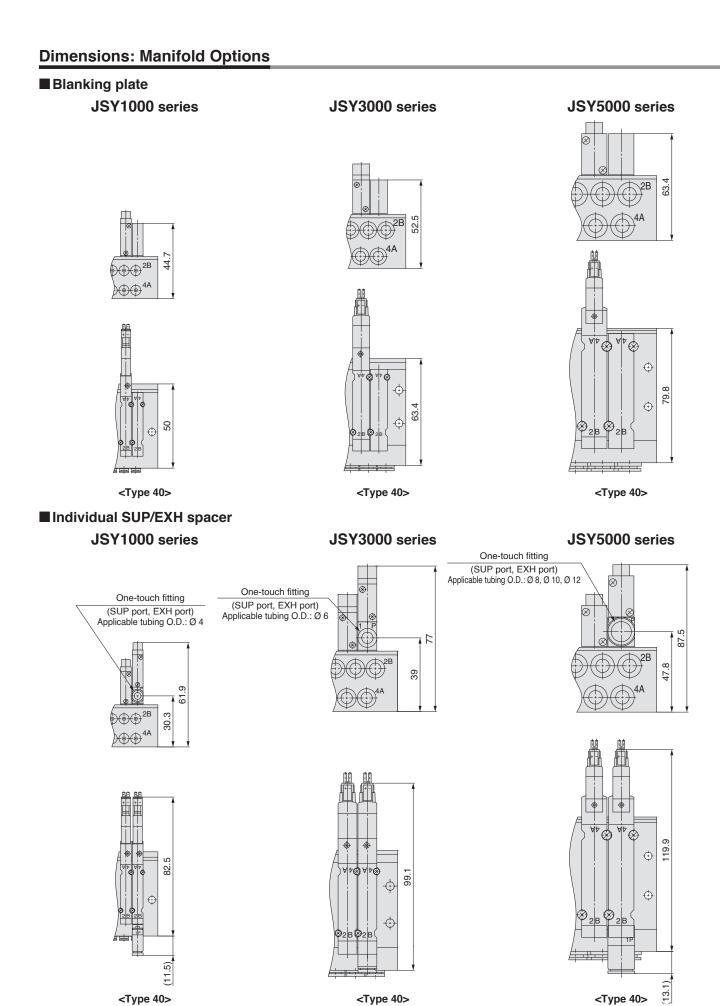
(Mounting example of a 2-position single valve)



	Port	size			Flow rate ch	aracteristics		
Model	1, 5, 3	4, 2	1-	4/2(P→A/B)		4/2	→5/3(A/B→E	≣)
	(P, EA, EB)	(A, B)	C [dm3/(s·bar)]	b	Q [l/min (ANR)]*1	C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]*1
JSY11M-50-1A	1/8	KC6	0.52	0.26	129	0.61	0.23	149

- * The value is for manifold base with 5 stations and individually operated 2-position type.
- * When the manifold is the metal base side ported type (type 40)
- *1 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.





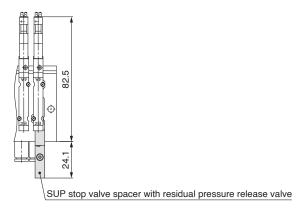
SMC

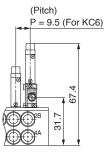
Manifold Options JSY1000/3000/5000 Series

Dimensions: Manifold Options

■ SUP stop valve spacer with residual pressure release valve

* Only compatible when the JSY1000 series 4(A), 2(B) ports are port size M5 or KC6





<Type 40>

SMC

Made to Order



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

1 External Pilot

How to Order Manifolds

How to Order Valves p. **16**

- * External pilot specification is not applicable for 4-position dual 3-port valves.
- $\ast\,$ When pilot type "R" is selected, select the external pilot type "R" for the manifold model.



Be sure to read this before handling the products. For safety instructions and 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

⚠ Warning

Do not use valves in atmospheres of corrosive gases, chemicals, sea water, water, water vapor, or where there is direct contact with any of these.

Valve Mounting

⚠ Caution

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

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

1. Do not apply excessive torque when turning the manual override. [0.05 N·m]

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

2. Manual override is used to switch the main valve without inputting an electrical signal for the valve. When manual operation is performed, the connected actuator will start operating, so be sure to confirm that it is safe to operate beforehand.

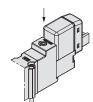
■ Non-locking push type

Push down on the manual override button until it stops.

JSY1000 series

JSY3000/5000 series





Manual Override

∕ Warning

■ 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 nonlocking push type.

JSY1000 series







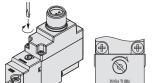


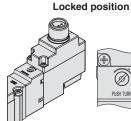
JSY3000/5000 series





JSY5000 series (DIN terminal, M12 connector type)









Be sure to read this before handling the products. For safety instructions and 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

Manual Override

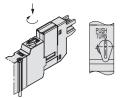
⚠ Warning

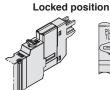
■ Push-turn locking lever type [E type]

Push down on the manual override by finger 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.

JSY1000 series



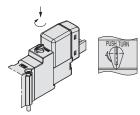


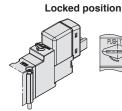


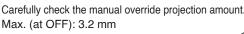
Carefully check the manual override projection amount. Max. (at OFF): 3.2 mm



JSY3000/5000 series

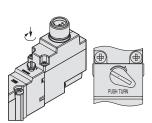




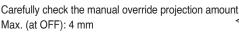




JSY5000 series (DIN terminal, M12 connector type)







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 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.

Plu	g position	B port	A port	
Туре	of actuation	N.C.	N.O.	
Number of solenoids	Single	(A)4 2(B) (EA)5 1 3(EB) (P)	(A)4 2(B) ✓ → → → → → → → → → → → → → → → → → → →	
Number of	Double	(A)4 2(B) (EA)5 1 3(EB) (P)	(A)4 2(B) (ZD-1 1 4 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4	

How to Use L/M Plug Connector

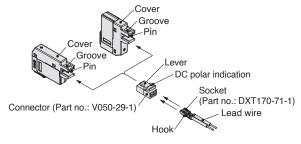
∧ Caution

1. Attaching and detaching connectors

To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.

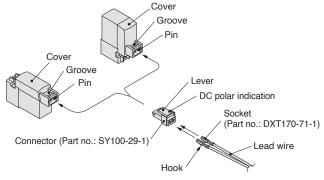
To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, and pull the connector

straight out. For JSY1000



* In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 10 N or more).

For JSY3000/5000



* In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 30 N or more).





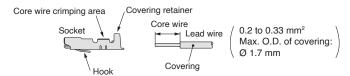
Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smc.eu

How to Use L/M Plug Connector

⚠ Caution

2. Crimping connection of lead wire and socket

Strip 3.2 to 3.7 mm at the end of lead wires, insert the end of the core wires evenly into the sockets, and then crimp it by a crimping tool. When this is done, take care that the coverings of the lead wires do not enter the core wire crimping area. (Please contact SMC for the dedicated crimping tools.)



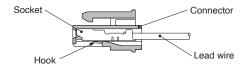
3. Attaching and detaching lead wires with sockets Attaching

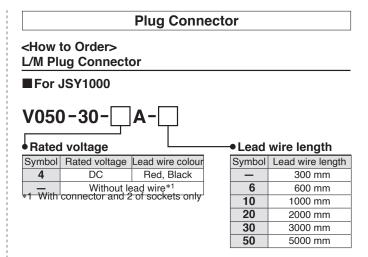
Insert the sockets into the square holes of the connector (\oplus, \ominus) indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector. (When they are pushed in, their hooks open and they are locked automatically.) Then confirm that they are locked by pulling lightly on the lead wires.

Detaching

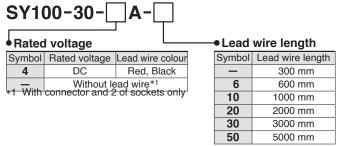
To detach a socket from a connector, pull out the lead wire while pressing the socket's hook with a stick having a thin tip (approx. 1 mm).

If the socket will be used again, first spread the hook outward.





■For JSY3000/5000



How to Order

Specify the plug connector part number together with the part number for the plug connector type solenoid valve without connector.

<Example> Lead wire length 2000 mm

For DC JSY3140-5LOZ SY100-30-4A-20





Be sure to read this before handling the products. For safety instructions and 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

Plug Connector

M8 Connector Type (JSY3000/5000), M12 Connector Type (JSY5000)

■ Connector cable

· Connector cable for M8/M12 can be ordered as follows:

How to Order

1. To order solenoid valve and connector cable at the same time. (Connector cable will be included in the shipment of the solenoid valve.)

M8 connector type (JSY3000/5000)

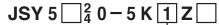


IEC Standards compliant

_	None
Α	IEC60947-2 compliant

- 000	o longui (iiiii)
Symbol	Cable length (mm)
1	300
2	500
3	1000
4	2000
5	3000
6	4000
7	5000

M12 connector type (JSY5000)



Cable length (mm)

Symbol	Cable length (mm)
1	300
2	500
3	1000
5	3000
7	5000

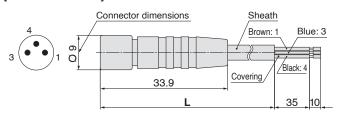
Ex. 1) Cable length: 300 mm

JSY3140-5W1Z

Symbol for electrical entry

2. To order connector cable only

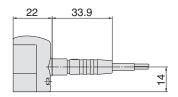
[M8 connector cable]



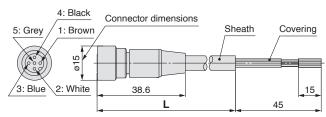
Cable length (L)	Part no.
300 mm	V100-49-1-1
500 mm	V100-49-1-2
1000 mm	V100-49-1-3
2000 mm	V100-49-1-4
5000 mm	V100-49-1-7
3000 mm	V100-49-1-5
4000 mm	V100-49-1-6

Sheath O.D.	Ø 3.4 mm
Cover diameter	Ø 1.16 mm
Conductor area	0.16 mm ²

[Dimensions when installed]



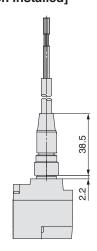
[M12 connector cable]



Cable length (L)	Part no.
300 mm	V100-200-5
500 mm	V100-200-5-5
1000 mm	V100-200-5-10
3000 mm	V100-200-5-30
5000 mm	V100-200-5-50

Sheath O.D.	Ø 6.5 mm
Cover diameter	Ø 1.8 mm
Conductor area	0.5 mm ²

[Dimensions when installed]



DIN Connector Part No.

⚠ Caution

< Type D>

With light

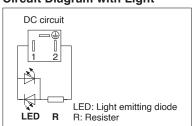
Rated voltage	Voltage symbol	Part no.			
24 VDC	24V	SY100-61-3-05			

< Type Y>

With light

Rated voltage	Voltage symbol	Part no.
24 VDC	24VN	SY100-82-3-05

Circuit Diagram with Light







Be sure to read this before handling the products. For safety instructions and 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

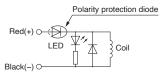
Surge Voltage Suppressor



<For DC>

L/M Plug Connector

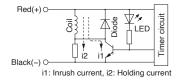
■ Polar type (For JSY3000/5000)
With light/surge voltage suppressor (□Z)



- · Connect in accordance with the +, polarity indication.
- When wiring is done at the factory, positive (+) is red and negative (-) is black.

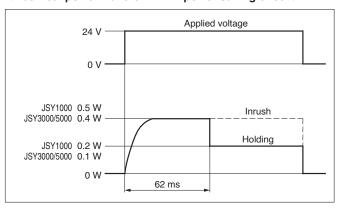
■ With power saving circuit

Power consumption is decreased to approx. 1/2.5 to 1/4 of the amount consumed at startup by reducing the wattage required to hold the valve in an energized state. (Effective energizing time is over 62 ms at 24 VDC.)



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

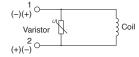
<Electrical power waveform with power saving circuit>

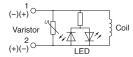


- \cdot Be careful not to reverse the polarity, since a diode to prevent the reversed current is not provided for the power saving circuit.
- · Since the voltage will drop by approx. 0.5 V due to the transistor, pay attention to the allowable voltage fluctuation. (For details, refer to the solenoid specifications of each type of valve.)

DIN terminal (JSY5000)

With surge voltage suppressor (DOS) (YOS) With light/surge voltage suppressor (PZ (YZ)





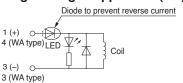
DIN terminal has no polarity.

45

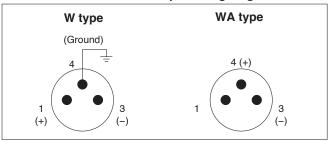
M8 Connector Type (JSY3000/5000)

■ Polar type

With light/surge voltage suppressor (□Z)



Solenoid valve side pin wiring diagram

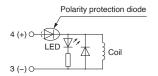


* The WA-type valve cannot be grounded.

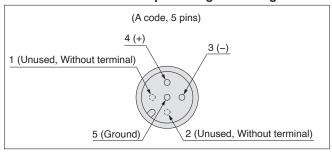
M12 Connector (JSY5000)

■ Polar type

With light/surge voltage suppressor (□Z)



Solenoid valve side pin arrangement diagram







Be sure to read this before handling the products. For safety instructions and 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

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 energize the A side and B side of 2-position double solenoid valve at the same time.

How to Replace One-touch Fittings

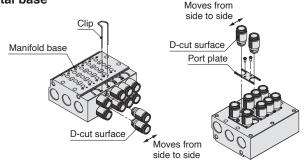
∧ Caution

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 36 for part numbers of One-touch fittings.

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

Fitting part no.: KQSY10-C4-X1336 (JSY1000) KQSY50-C12-X1336 (JSY5000)

■ Metal base



- It is not possible to replace C2 or C4 fittings with C6 fittings for the JSY1000 series.
- Refer to page 36 for One-touch fitting, clip, and port plate part numbers.

One-touch Fittings

⚠ Caution

■ Tube attachment/detachment for One-touch fittings

1) Tube attachment

- 1. Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc., making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.
- 2. Grasp the tube and push it in slowly, inserting it securely all the way into the fitting.
- After inserting the tube, pull on it lightly to confirm that it will not come out. If it is not installed securely all the way into the fitting, this can cause problems such as air leakage or the tube pulling out.

2) Tube detachment

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

Applicable Fittings: KQ2H, KQ2S, M Series

, , , b b	7 tpp://dabio 1 ftm:/go. ftd211, ftd20, in oorioo											
Series	Model	Piping	Port	Fitting	Applicable tubing O.D.							
Series	iviodei	port	size	Fitting	Ø2	Ø 4	Ø6	Ø8	Ø 10	Ø 12		
		1P, 5EA	1/8	KQ2H								
		3EB	1/0	KQ2S								
0	JJ5SY1-40/41(R) Manifold base	X, PE	M5	KQ2H								
0				KQ2S								
JSY1000		4A. 2B	NAC	KQ2H								
SP			M5	KQ2S								
		4A, 2D	МЗ	KQ2H								
			IVI3	KQ2S								

Series	Model	Piping Port port size		Citting	A	pplica	able	tubin	g O.	D.
Selles	iviodei			size Fitting		Ø 4	Ø6	Ø 8	Ø 10	Ø 12
		1P, 5EA	1/4	KQ2H						
	JJ5SY3-40/41(R) Manifold base	3EB	1/4	KQ2S						
0		X, PE	M5	KQ2H						
300				KQ2S						
×		4A 0D	1/8	KQ2H						
SP .				KQ2S						
		4A, 2B	M5	KQ2H						
			IVI5	KQ2S			$\overline{}$			

Series	Model	Piping	Port	Eitting	Applicable tubing O.D. Ø 2 Ø 4 Ø 6 Ø 8 Ø 10 Ø 1					
Selles	Model	port	size	i ittiiig	Ø2	Ø 4	Ø6	Ø 8	Ø 10	Ø 12
		1P, 5EA	3/8	KQ2H						U
		3EB	3/8	KQ2S						
0		X, PE	M5	KQ2H						
JSY5000	JJ5SY5-40/41(R)	Λ, ΓΕ		KQ2S						
¥	Manifold base	4A, 2B	1/4	KQ2H						
35				KQ2S						
			1/8	KQ2H						
			1/0	KQ2S						





Be sure to read this before handling the products. For safety instructions and 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

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

1) Nylon tube within ± 0.1 mm 2) Soft nylon tube within ± 0.1 mm
Do not use tube which do not meet these outside diameter tolerances. It may not be possible to connect them, or they may cause other trouble, such as air leakage or the tube pulling out after connection.

Fixation of DIN Rail Mounting Type Manifolds

∧ Caution

- 1. When the manifold is fixed with bolts on a mounting surface etc., it can be operated just by fixing on both ends of the DIN rail if the bottom surface of the DIN rail is entirely in contact with the mounting surface when mounted horizontally. However, if it is used with other mounting or with side or reverse mounting, fix the DIN rail with bolts at regular intervals. As a guide, insert bolts in 2 locations for 2-5 stations, 3 locations for 6-10 stations, 4 locations for 11-15 stations, and 5 locations for 16-20 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 Use DIN Terminal

⚠ Caution

Connection

- Loosen the holding screw and pull the connector out of the solenoid valve terminal block.
- After removing the holding screw, insert a flat head screwdriver, etc. into the notch on the bottom of the terminal block and pry it open, separating the terminal block and the housing.
- Loosen the terminal screws (slotted screws) on the terminal block, insert the cores of the lead wires into the terminals according to the connection method, and fasten them securely with the terminal screws.
- 4. Secure the cord by fastening the gland nut.

⚠ Caution

When making connections, take note that using other than the supported size (O 3.5 to O 7) heavy duty cord will not satisfy IP65 (enclosure) standards. Also, be sure to tighten the gland nut and holding screw within their specified torque ranges.

Changing the entry direction

After separating the terminal block and housing, the cord entry can be changed by attaching the housing in the desired direction (4 directions at 90° intervals).

* Be careful not to damage the light with the cord's lead wires.

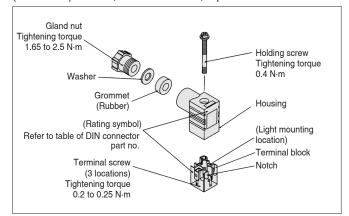
Precautions

Plug in and pull out the connector vertically without tilting to one side.

Compatible cable

Cord O.D.: Ø 3.5 to Ø 7

(Reference) 0.5mm2, 2-core or 3-core, equivalent to JIS C 3306



Type "Y"

DIN connector type Y is a DIN connector that confirms to the DIN pitch 8-mm standard.

- $\bullet\,$ D type DIN connector with 9.4 mm pitch between terminals is not interchangeable.
- To distinguish from the D type DIN connector, "N" is listed at the end of voltage symbol.
- Dimensions are completely the same as D type DIN connector.
- When replacing only the pilot valve assembly, it is interchangeable with the V115, but be aware that a V111 cannot be replaced with a V115 (and vice versa).





Be sure to read this before handling the products. For safety instructions and 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

M8 Connector

⚠Caution

- 1. M8 connector types have an IP65 (enclosure) rating, offering protection from dust and water. However please note: these products are not intended for use in water. Select a SMC connector cable (V100-49-1-□) or a FA sensor type connector, with M8 threaded 3 pin specifications conforming to Nippon Electric Control Equipment Association Standard, NECA4202 (IEC60947-5-2). Make sure the connector O.D. is 10.5mm or less when used with the JSY3000 series manifold. If more than 10.5mm, it cannot be mounted due to the size.
- 2. Do not use a tool to mount the connector, as this may cause damage. Only tighten by hand. (0.4 to 0.6 N·m)
- The excessive stress on the cable connector will not be able to satisfy the IP65 rating. Please use caution and do not apply a stress of 30 N or greater.

⚠ Caution

Failure to meet IP65 performance may result if using alternative connectors than those shown above, or when insufficiently tightened.

Connector cable mounting



* Connector cable should be mounted in the correct direction. Make sure that the arrow symbol on the connector is facing the triangle symbol on the valve when using SMC connector cable (V100-49-1-□). Be careful not to squeeze it in the wrong direction, as problems such as pin damage may occur.

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.

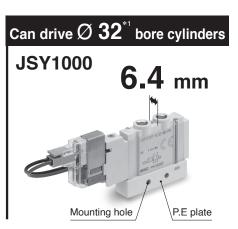


Compact 5-Port Solenoid Valve

JSY1000/3000/5000 Series

Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

Silencer







New An M12 connector has been added. p. 53

(JSY5000 only)

*1 The cylinder speed is 300 mm/s.

Enclosure: IP65

(E UK ROHS

Wall mounting is possible.

The valve size can be reduced.

17 % reduction This allows for space saving and weight reduction. Width [mm]: 15 18 7 % reduction 5.5 Weight [g]: 97 104 JSY5000 33 % reduction Width [mm]: 10 15 Sonic conductance C [dm³/(s·bar)] 33 % reduction SY7000 Weight [g]: 48 72 2.1 36 % reduction Width [mm]: **6.4** 10 JSY3000 SY5000 60 % reduction Weight [g]: 21 53 0.6 JSY1000 SY3000 6.4 10 18 15

Valve width [mm]

SMC

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

	Va	lve type		Rubber seal				
Fluid				Air				
Internal pilot		2	-position single	0.15 to 0.7				
operating pressure ra	ange	[MPa] 2	-position double	0.1 to 0.7				
Ambient and fluid ter	mpera	tures [°C]		-10 to 50 (No freezing)				
Max. operating frequency	JSY1	9	-position single/double	5				
[Hz]	JSY	5000 2	-position single/double	5				
				Non-locking push type				
Manual override				Push-turn locking slotted type				
				Push-turn locking lever type				
Pilot exhaust type				Individual exhaust				
Lubrication				Not required				
Mounting orientation	Mounting orientation*1			Unrestricted				
Impact/Vibration resi	act/Vibration resistance*1 [m/s²]			150/30				
Enclosure				IP40: L plug connector (L), M plug connector (M)/IP65: DIN terminal (D) (Y), M12 connector (K)				
Electrical entry				L plug connector (L), M plug connector (M), DIN terminal (D, Y), M12 connector (K)				
Coil rated voltage [V]			24 VDC				
Allowable voltage flu	ctuati	on	JSY1000	-7 % to +10 % of the rated voltage (24 VDC)				
Allowable voltage ilu	Ciuati	OII	JSY3000/5000	±10 % of rated voltage				
		Standard	JSY3000/5000	0.4 (DIN terminal: 0.35 W [Without light], 0.45 [With light])				
Power consumption [W]	DC	With pow	er- JSY1000	0.2*2 [Inrush: 0.5, Holding: 0.2]				
[**]	[W]		JSY3000/5000	0.1*3 [Inrush: 0.4, Holding: 0.1]				
Surge voltage suppre	essor			Diode (Varistor for the DIN terminal type)				
Indicator light				LED				

^{*1} 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 energized and a de-energized 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. Test was performed at both an energized and a de-energized state in the axial direction and at a right angle to the main valve and armature. (Value in the initial state)

- *2 JSY1000 series available as power-saving type only. Standard type (without power-saving circuit) cannot be selected.
- *3 The type with a power-saving circuit is not available for the DIN terminal and M12 connector types.
- *4 For details, refer to page 45.

Response Time/Valve Weight

Body Ported

				Response time [ms] (at 0.5 MPa)*1 Standard	Valve weight [g]			
Series Seal type		Model	Type of actuation	With light/surge voltage suppressor	L/M plug	DIN terminal	K M12 connector	
				Z type	Connector		WITE CONFIDENCE	
JSY1000		JSY1120T	2-position single	15	21		_	
3311000		JSY1220T	2-position double	5	28	_		
JSY3000	Rubber seal	JSY3120	2-position single	27	48			
3513000	Rubber Seai	Rubber seai	JSY3220	2-position double	10	63		
JSY5000		JSY5120	2-position single	42	97	125	119	
3313000		JSY5220	2-position double	13	113	169	157	

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





Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

Single Unit Specifications



Model			Non plug-in, For mounting P.E plate
	JSY1		M5 x 0.8
1(P), 3/5(E) port Port size 4(A), 2(B) port	JSY3000	1/16	
		JSY5000	1/8
		JSY1000	M3 x 0.5, M5 x 0.8
	4(A), 2(B) port	JSY3000	1/16
		JSY5000	1/8

Flow Rate Characteristics

	Port size		Valve flow rate characteristics					
Model 1, 5, 3		4, 2	1 → 4/2 (P → A/B)		VB)	4/2 → 5/3 (A/B →		→ E)
	(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]*1	C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]*1
JSY1000	M5	M5	0.6	0.48	173	0.6	0.39	162
JSY3000	1/16	1/16	2.0	0.41	548	2.1	0.35	552
JSY5000	1/8	1/8	5.5	0.38	1475	5.4	0.36	1428

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

^{*1} 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.

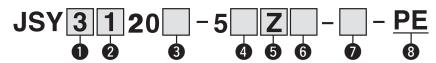
Non Plug-in Body Ported

Single Unit (For Mounting P.E Plate)

Type 20 Top Ported

JSY1000/3000/5000 Series

How to Order Valves



Series

1 JSY1000				
3	JSY3000			
5	JSY5000			

2 Type of actuation

_	, p = 0. a.c.a		
1	2-position	Single	
2		Double	

3 Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000	JSY5000
-	Standard	_	•	•
T	With power-saving circuit (Continuous duty type)	•	•	• In a supillable

- * For the JSY1000 series, only the power-saving circuit specification is available st Be careful of the energizing time when the power-saving circuit is selected.
- For details, refer to page 45. Power saving circuit is not available in the case of D□, Y□, W□, K□ type.

4 Electrical entry

	L plug co	onnector	M plug connector		
	L	LO	M	MO	
JSY1000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector	
JSY3000 JSY5000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector	

		l .			
	DIN terminal (JSY5000 only)	M12 connector (JSY5000 only)		
	D, Y	DO, YO	K□	KO	
JSY1000 JSY3000	-	_	-	_	
JSY5000	D, Y: With connector	DO, YO: Without connector	K:: With connector cable	KO: Without connector cable	

- * Refer to page 43 for the lead wire length of L and M plug connectors
- "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 47.
- * For connector cable of M12 connector, refer to page 44.
- * Refer to page 45 for polarity and pin arrangement examples.
- Enter the cable length symbols in \Box . Please be sure to fill in the blank referring to page 44.

5 Light/surge voltage suppressor

Electrical entry for L, M, K

With light/surge voltage suppressor (Polar type)

Electrical entry for D. Y

	,
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

- * Only "DOS" and "YOS" are available for the S type.
- * DOZ and YOZ are not available.

6 Manual override

	-: Non-locking	D:		E:	1
8	push type	Push-turn	1	Push-turn	/ ~
9		locking		locking	
JSY1000		slotted		lever	
ي ا		type		type <	
	-: Non-locking	D:	N	E:	· I
2 2	push type	Push-turn	.	Push-turn	
Y3000		locking		locking	
S S		slotted		lever	
ي ي		type 😭		type <	
		<u> </u>			

4(A)/2(B) port size thread piping

• (, , , , , ,			3
Symbol	Thread piping	JSY1000	JSY3000	JSY5000
M3	M3 x 0.5	•	_	_
M5	M5 x 0.8	•	_	_
R1	Rc1/16	_	•	_
01	Rc1/8	_	_	•

8 With P.E plate

Symbol	Port size	JSY1000	JSY3000	JSY5000
	M5	•	_	_
PE	Rc1/16	_	•	_
	Rc1/8	_	_	•

∕ Caution

Refer to the following to order the fitting/silencer for the 1/16 thread piping of the JSY3000 separately.

Description	Part number	Port size Piping/Type
One-touch fittings (Applicable tubing O.D.: Ø 6)	KQ2S06-R1AS-X1517*1	
One-touch fittings (Applicable tubing O.D.: Ø 8)	KQSY-S08R1S*1	Rc1/16
Silencer	INA-25-98	

1 The part number is for 1 piece. (Sales unit: 10 pcs.)

*1 Tightening torque: 2 to 3 N·m (One-touch fitting)

⚠ Caution

If the JSY3000/5000 series is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification.

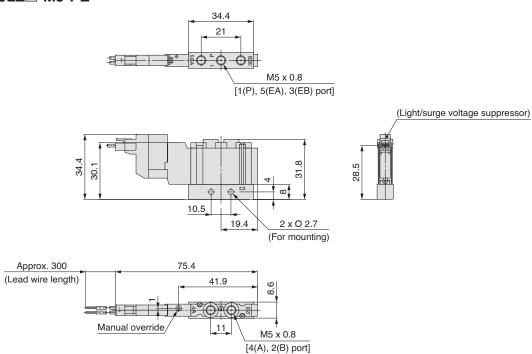
Non Plug-in Body Ported Single Unit (For Mounting P.E Plate) Single Unit (For Mounting P.E Plate) Single Unit (For Mounting P.E Plate)

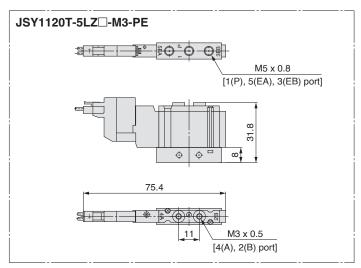
Dimensions: JSY1000 Series

Body Ported Single Unit Type 20/Top Ported Port Size: M3, M5

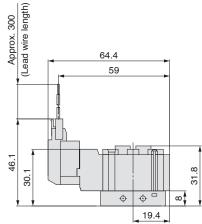


2-position single/L plug connector (L) JSY1120T-5LZ□-M5-PE





M plug connector (M) JSY1120T-5MZ□-M5-PE





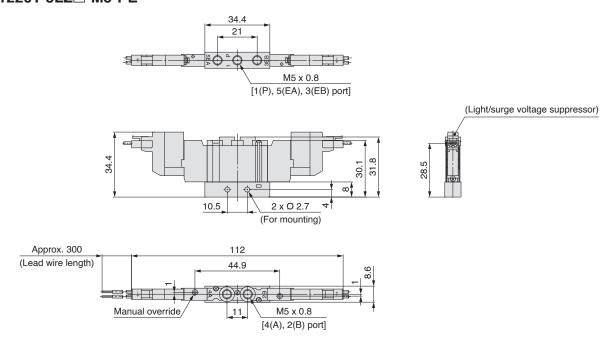
Dimensions: **JSY1000** Series

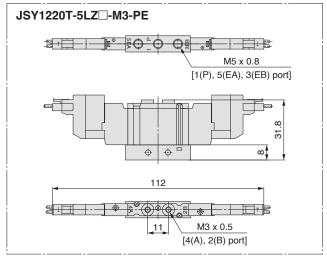
Single Unit

Body Ported Type 20/Top Ported Port Size: M3, M5

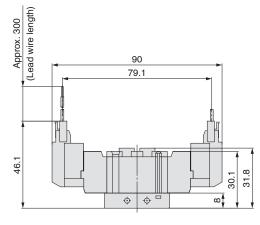


2-position double/L plug connector (L) JSY1220T-5LZ□-M5-PE





M plug connector (M) JSY1220T-5MZ□-M5-PE



Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

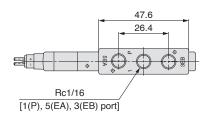
JSY1000/3000/5000 Series

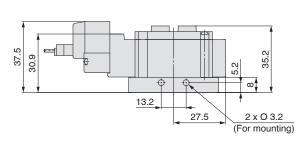
Dimensions: **JSY3000** Series

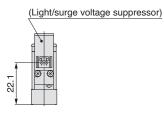
Body Ported Single Unit Type 20/Top Ported Port Size: Rc1/16

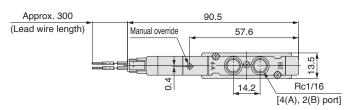


2-position single/L plug connector (L) JSY3120-5LZ□-R1-PE

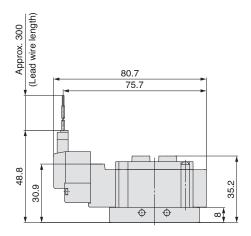








M plug connector (M) JSY3120-5MZ□-R1-PE





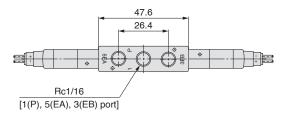
Dimensions: **JSY3000** Series

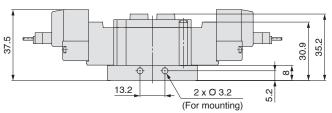
Single Unit

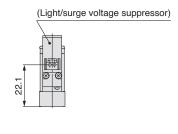
Body Ported Type 20/Top Ported Port Size: Rc1/16

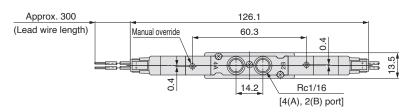


2-position double/L plug connector (L) JSY3220-5LZ□-R1-PE

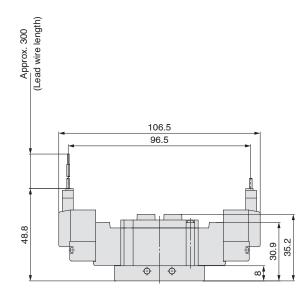








M plug connector (M) JSY3220-5MZ□-R1-PE



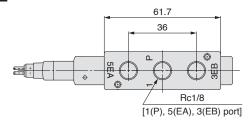
Non Plug-in Body Ported JSY1000/3000/5000 Series Single Unit (For Mounting P.E Plate)

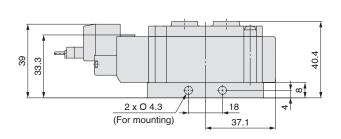
Dimensions: **JSY5000** Series

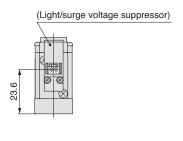
Single Unit

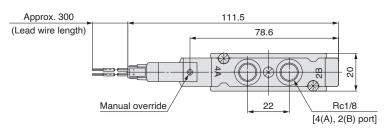
Body Ported Type 20/Top Ported Port Size: Rc1/8

2-position single/L plug connector (L) JSY5120-5LZ□-01-PE



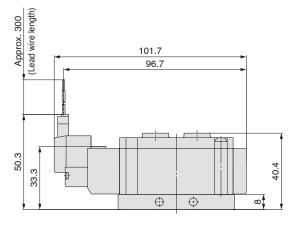


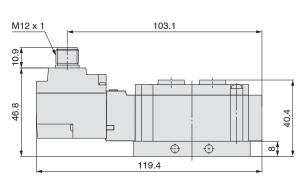


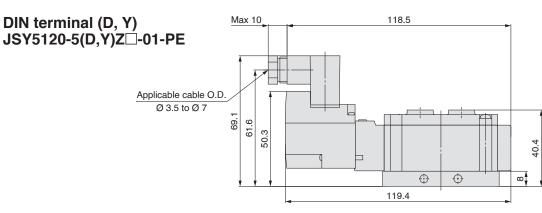


M plug connector (M) JSY5120-5MZ□-01-PÉ









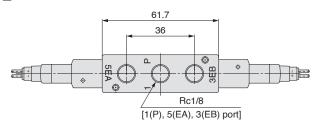
SMC

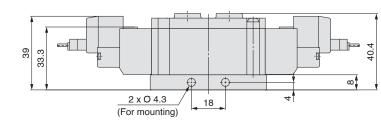
Dimensions: **JSY5000** Series

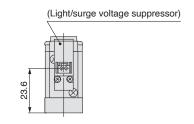
Single Unit

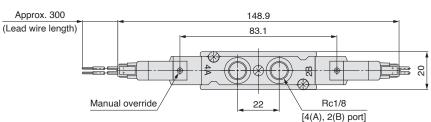
Body Ported Type 20/Top Ported Port Size: Rc1/8

2-position double/L plug connector (L) JSY5220-5LZ□-01-PE



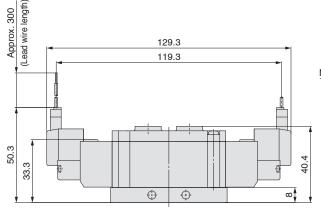


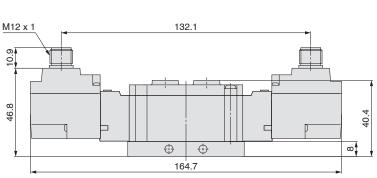




M plug connector (M) JSY5220-5MZ□-01-PE

M12 connector (K) JSY5220-5KOZÙ-Ó1-PE

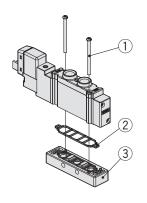




DIN terminal (D, Y) JSY5220-5(D,Y)Z□-01-PE Max 10 162.9 Applicable cable O.D. Ø 3.5 to Ø 7 69.1 61.6 50.3 40.4 \oplus \oplus ω. 164.7

SMC

Non Plug-in Single Unit Parts Nos.



No.	Description	Part number			Note
INO.		JSY1000	JSY3000	JSY5000	Note
1	Valve mounting screw	JSY11V-23-3A (M1.4 x 24.5)	JSY31V-23-7A (M2 x 27)	JSY51V-23-7A (M3 x 32)	Part numbers shown on the left are for 10 valves. (20 pcs.)
2	Base gasket	JSY11M-9P-1A	JSY31M-9P-1A	JSY51M-9P-1A	Part numbers shown on the left are for 10 valves. (10 pcs.)
3	P.E plate assembly	JSY11V-7A-M5	JSY31V-7A-R1	JSY51V-7A-01	With base gasket Available in units of 1 set For details, refer to the part numbers below.

■ P.E Plate



1 Series

1	JSY1000	
3	JSY3000	
5	JSY5000	

2 Thread piping

Symbol	Thread piping	JSY1000	JSY3000	JSY5000
M5	M5 x 0.8	•	_	_
R1	Rc1/16	_	•	_
01	Rc1/8	_	_	•



JSY1000/3000/5000 Series Made to Order



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

1 Coil type: With power-saving circuit (Continuous duty type)

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

0.1 W: JSY3000/5000

How to Order Valves

JSY $\frac{3}{5}$ 20 T - 5 Z - PE Coil type T With power-saving circuit (Continuous duty type)

* The type with a power-saving circuit is not available for the DIN terminal (D, Y) and M12 connector (K) types.



Safety Instructions

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

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

iniurv.

Marning:

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

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate

1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.

ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

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

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

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

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

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
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warrantv.

Compliance Requirements

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

Revision History			
Edition B	- Xxxxxxxxx	QS	
Edition C	- Xxxxxxxxx - Xxxxxxxxxx	XU	

SMC Cor	poration (E	urope)	
Austria	+43 (0)2262622800	www.smc.at	(
Belgium	+32 (0)33551464	www.smc.be	i
Bulgaria	+359 (0)2807670	www.smc.bg	5
Croatia	+385 (0)13707288	www.smc.hr	5
Czech Republic	+420 541424611	www.smc.cz	(
Denmark	+45 70252900	www.smcdk.com	5
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