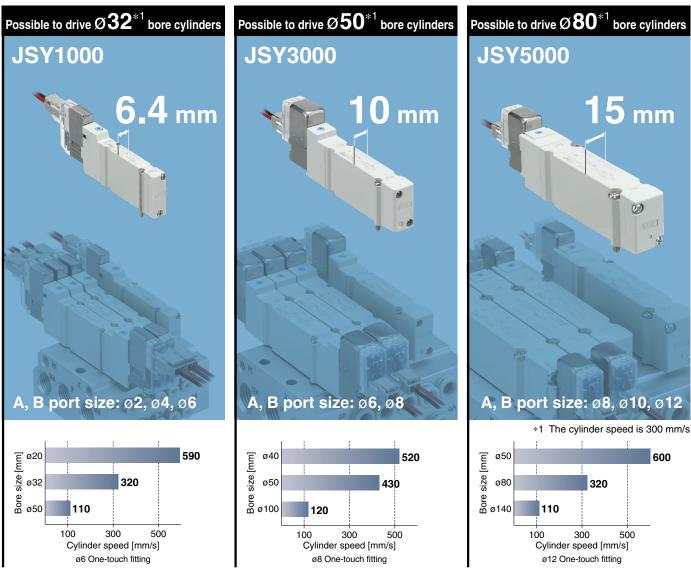
Non Plug-in

Compact 5-Port Solenoid Valve New

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

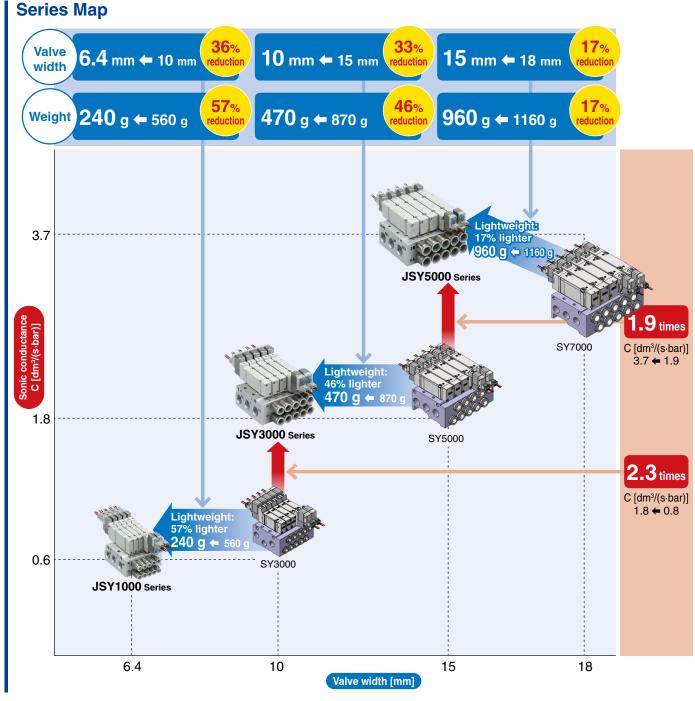


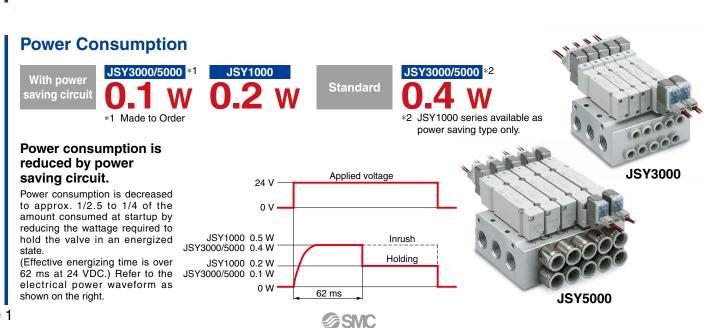
Refer to pages 5 to 8 for detailed conditions regarding the above cylinder speed.



JSY1000/3000/5000 Series





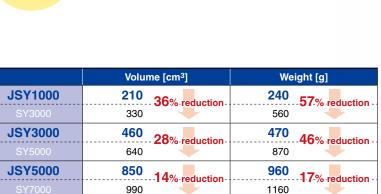


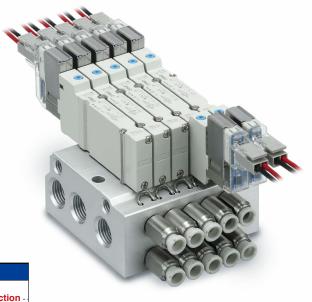
Space Saving

36% reduction

Max.

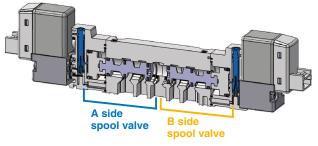
Weight 57% reduction





4-Position Dual 3-Port Valve Available

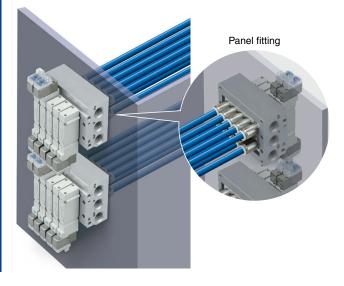
• Two 3-port valves built into one body



- 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

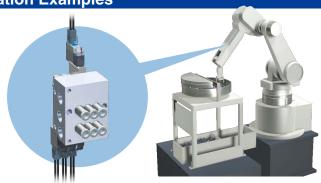
Model	A side	B side
JSY□A4□	N.C. valve	N.C. valve
JSY□B4□	N.O. valve	N.O. valve
JSY□C4□	N.C. valve	N.O. valve

Bottom ported is prepared (A, B port).



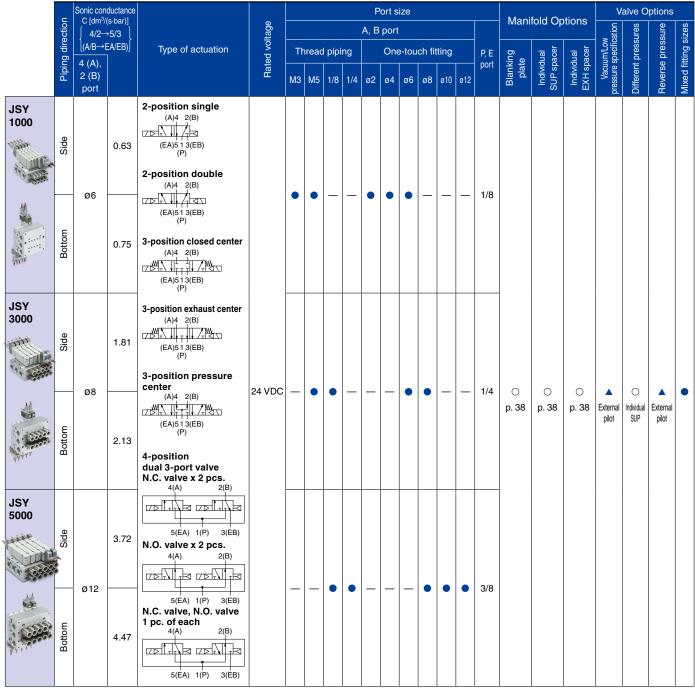
Application Examples







Series Variations





Manifold Options Tube Releasing Tool Individual EXH spacer p. 38 Individual SUP spacer p. 38 Blanking plate p. 38 ■This tool is used for removing the tube When the same manifold is used for When valve exhaust affects other Used when valve stations due to the circuit configuration, this spacer is used for individual valve different pressures, an individual additions are expected from port A and B. SUP spacer is used as a supply port or for maintenance. for different pressures. For JSY1000/3000 98 For JSY1000 2-position single valve 2-position single valve ναινο √Σ-λ For JSY5000 Individual SUP spacer assembly Individual EXH spacer assembly -3/5(E') Circuit diagram Circuit diagram (EA) (P) (EB) (Mounting example of a 2-position single valve) (Mounting example of a 2-position single valve)

SMC

3

CONTENTS

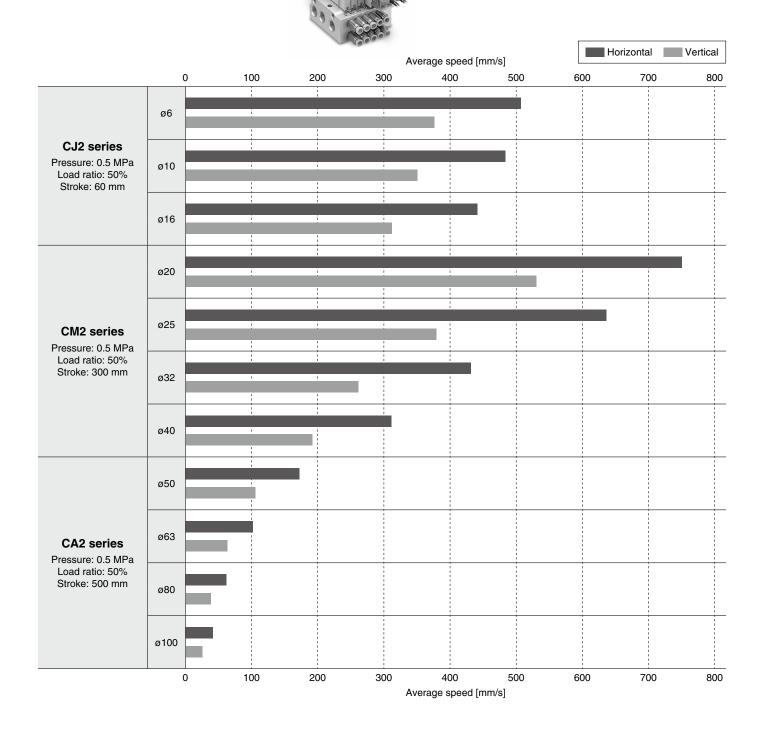
Valve Constructionp. 11

Optimum Actuation Size Chart of Air Cylinder-----p. 5

Valve Specification (Specifications, Re		Valve Replacement Parts ······ Veight)····· p. 9	·····p. 12
		Plug-in Metal Base 40 Side Ported/Type 41 Bottom Ported	p. 14
		Non Plug-in Metal Base (Specifications, Flow Rate Characteristics, Weight)	····· p. 14
JSY1000 Side ported	JSY1000 Bottom ported	Dimensions/JSY1000: Type 40 Side Ported ·····	····· p. 17
Side ported	Bottom ported	Dimensions/JSY1000: Type 41 Bottom Ported ·····	····· p. 20
111	ineres.	Dimensions/JSY3000: Type 40 Side Ported ······	····· p. 23
JSY3000 Side ported	JSY3000 Bottom ported	Dimensions/JSY3000: Type 41 Bottom Ported ·····	····· p. 26
	6850	Dimensions/JSY5000: Type 40 Side Ported ······	····· p. 29
JSY5000 Side ported	JSY5000 Bottom ported	Dimensions/JSY5000: Type 41 Bottom Ported ······	····· p. 32
Manifold Exploded	d View ······		·····p. 35
One-touch Fittings	s, Clip, Port Plate	e, Tube Releasing Tool······	·····p. 36
Manifold Options			·····p. 37
Made to Order ·····			·····p. 40
Specific Product P	Precautions		·····p. 41
Safety Instructions	3	Ba	ack cover

Optimum Actuation Size Chart of Air Cylinder

For JSY1000, A, B port: Ø4



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

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



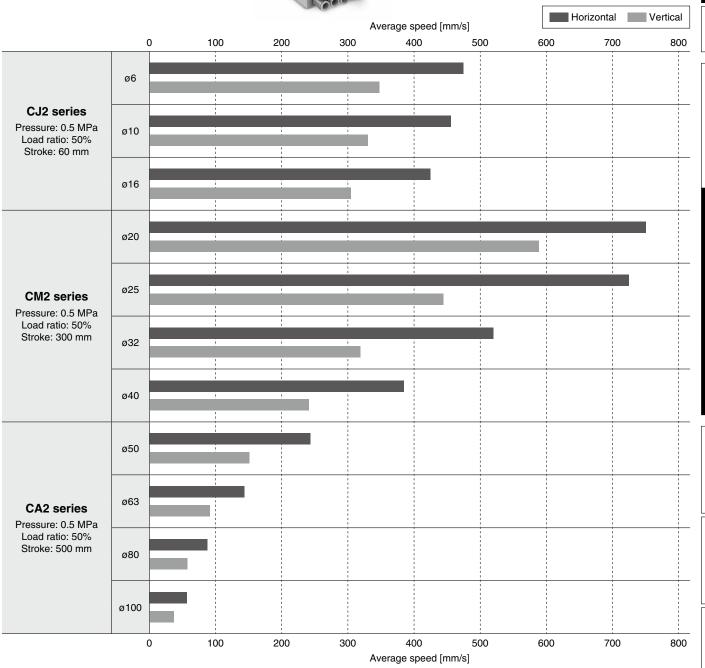
Values at extension of a directly coupled cylinder when meter-out speed controllers are used with the needle full open.

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%

Optimum Actuation Size Chart of Air Cylinder





Valve

Type 40 Type 41 Metal Base

Non Plug-in JSY1000

JSY3000

JSY5000

Manifold Exploded View

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

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

The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

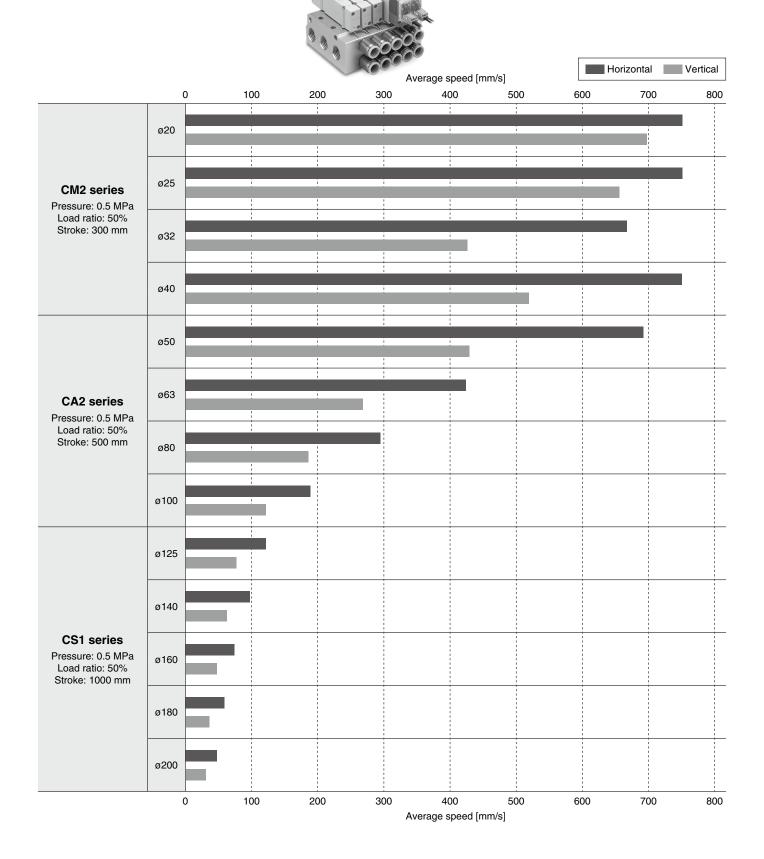
Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%

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

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

Optimum Actuation Size Chart of Air Cylinder

For JSY3000, A, B port: Ø8



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

The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

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

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

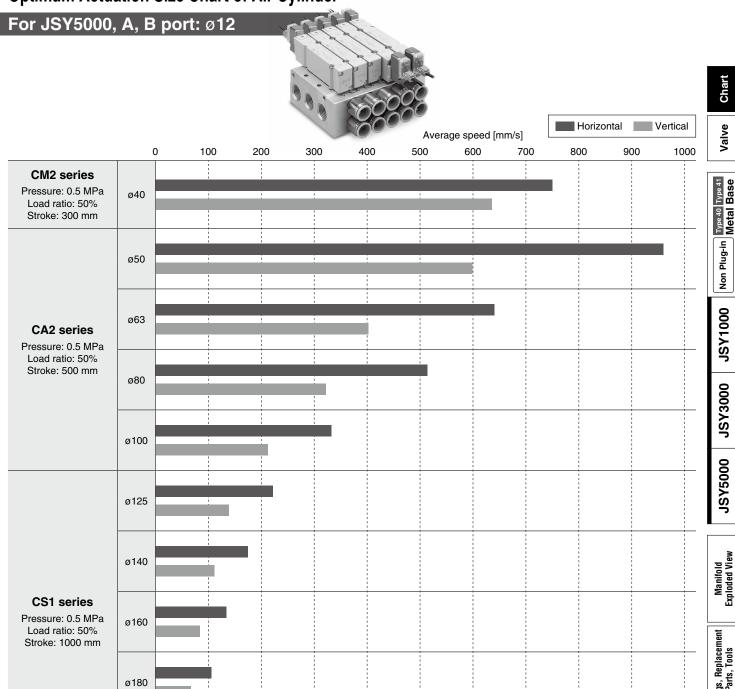
Operating piston speed is different depending on the applicable cylinder. Refer to the cylinder catalog for details.

ø200

0

100

200





The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.

300

400

500

Average speed [mm/s]

700

800

900

Type 40 Type 41 Metal Base

Fittings, Replacement Parts, Tools

Manifold Options

1000

Made to Order

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

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

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

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-p	osition double		0.1 to 0.7		
range	3-р	osition		0.2 to 0.7		
[MPa]	4-p	osition dual 3-p	ort valve	0.15 to 0.7		
External pilot	Op	erating pressure	range	-100 kPa to 0.7		
operating pressure	D:I		2-position single			
range [MPa]		ot pressure nge	2-position double	0.25 to 0.7		
(Made to Order)	lai	ige	3-position			
Ambient and fluid tem	pera	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-position	3		
[Hz]			2-position single/double	5		
[· ·-]	JS'	Y5000	4-position dual 3-port valve	3		
			3-position	3		
				Non-locking push type		
Manual override				Push-turn locking slotted type		
				Push-turn locking lever type		
Pilot exhaust type	Inte	ernal pilot		Individual exhaust		
Pilot extiaust type	Ext	ternal pilot (Mad	e to Order)	inuividual exhaust		
Lubrication				Not required		
Mounting orientation*	1			Unrestricted		
Impact/Vibration resis	tance	e*1 [m/s ²]		150/30		
Enclosure				IP40		
Electrical entry				L plug connector (L), M plug connector (M)		
Coil rated voltage [V]				24 VDC		
Allowable voltage fluo	tusti	on	JSY1000	-7% to +10% of the rated voltage (24 VDC)		
Allowable voltage fluc	iuali		JSY3000/5000	±10% of the rated voltage		
		Standard	JSY3000/5000	0.4		
Power consumption [W]	DC	147:11	JSY1000	0.2*2 [Inrush 0.5, Holding 0.2]		
	DC With power saving circuit	JSY3000/5000 (Made to Order)	0.1*3 [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 energized and de-energized states every once for each condition. (Values at the initial period)

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

Refer to page 45 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} For details, refer to page 43.

Response Time/Valve Weight

		l type Model		Response time [ms] (at 0.5 MPa)*1	
				Standard	
Series	Seal type		Type of actuation	With light/surge voltage suppressor	Weight [g]
				Z type	
		JSY1140T	2-position single	15	17
JSY1000		JSY1240T	2-position double	5	24
3511000	000 Rubber seal	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
JSY3000		JSY3240	2-position double	10	49
3513000		JSY3(3/4/5)40	3-position	30	52
		JSY3(A/B/C)40	4-position dual 3-port valve	27	48
JSY5000		JSY5140	2-position single	42	66
		JSY5240	2-position double	13	83
		JSY5(3/4/5)40	3-position	40	93
		JSY5(A/B/C)40	4-position dual 3-port valve	41	80

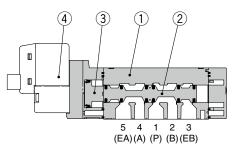
^{*1} Based on dynamic performance test, JIS B 8419-2010. (Coil temperature: 20°C, at rated voltage)

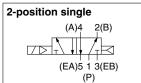


JSY1000/3000/5000 Series Valve Construction

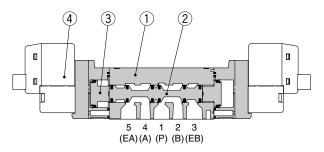
Rubber Seal

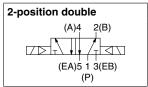
2-position single



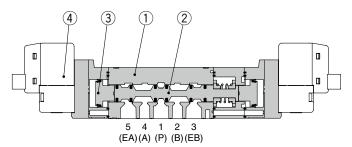


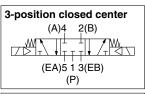
2-position double

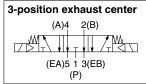


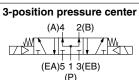


3-position closed center/exhaust center/pressure center

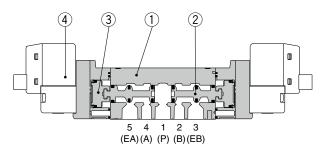


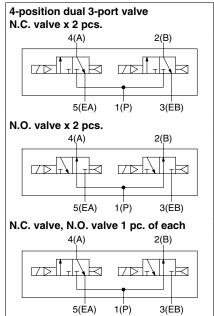






4-position dual 3-port valve





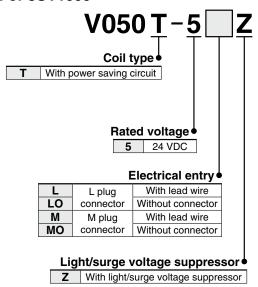
Component Parts

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

JSY1000/3000/5000 Series **Valve Replacement Parts**

How to Order Pilot Valves





How to replace pilot valves Gasket*1 Pilot valve Adapter plate Concave Clip part no. JSY11V-46-1A (10 pcs.)

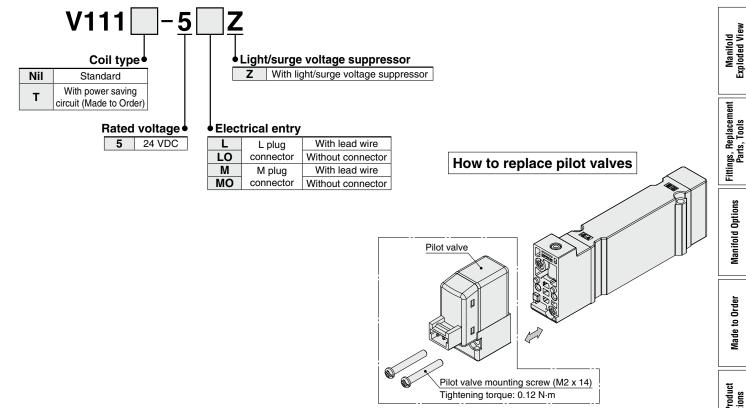
* Clip is not included in the pilot valve.

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.)

- 1) Mount the pilot valve on the adapter plate.
- 2) 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.





JSY1000/3000/5000 Series Type 40, 41

Non Plug-in Metal Base

Manifold Specifications

Manifold type Non plug-in metal base		Non plug-in metal base	
SUP/EXH port type			Common SUP/EXH
Valve station	ns		2 to 20 stations
	JSY1000		1/8
	1(P), 3/5(E) port	JSY3000	1/4
Port size 4(A), 2(B) port		JSY5000	3/8
		JSY1000	M3 x 0.5, M5 x 0.8 ø2 One-touch fitting, ø4 One-touch fitting, ø6 One-touch fitting
	4(A), 2(B) port	JSY3000	M5 x 0.8, 1/8 ø6 One-touch fitting, ø8 One-touch fitting
		JSY5000	1/8, 1/4 ø8 One-touch fitting, ø10 One-touch fitting, ø12 One-touch fitting

Manifold Flow Rate Characteristics/Manifold Weight

	Port size		Valve flow rate characteristics				Weight: W [g]*1		
Model	1, 5, 3	4, 2	1 → 4/2 (P –	$1 \rightarrow 4/2 \; (P \rightarrow A/B)$		4/2 → 5/3 (A/B → E)		(n: stations)	
	(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b	Fixed: C□	Replaceable: KC□	
JJ5SY1-40 (Side ported)	1/8	KC6	0.62	0.34	0.63	0.28	20.1n + 38	30.5n + 35	
JJ5SY1-41 (Bottom ported)	1/8	KC6	0.74	0.46	0.75	0.36	20.8n + 38	33.8n + 35	
JJ5SY3-40 (Side ported)	1/4	KC8	1.86	0.36	1.81	0.27	38.0n + 84	54.4n + 86	
JJ5SY3-41 (Bottom ported)	1/4	KC8	2.31	0.43	2.13	0.31	41.2n + 84	59.6n + 80	
JJ5SY5-40 (Side ported)	3/8	KC12	3.61	0.30	3.72	0.18	90.1n + 148	121.5n + 144	
JJ5SY5-41 (Bottom ported)	3/8	KC12	4.28	0.40	4.47	0.25	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.

Chart

Valve

Non Plug-in

JSY1000

JSY3000 JSY5000



^{*} 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.

Type 40
Side Ported

Type 41
Bottom Ported

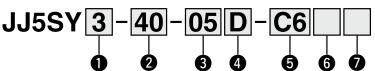
Non Plug-in Metal Base

JSY1000/3000/5000 Series



Internal Pilot

How to Order Manifolds



1 JSY1000 3 JSY3000

JSY5000

② Typ	ре
40	Side ported
41	Bottom ported

The external pilot specification should be ordered as Made to Order. For details, refer to page 40.

Made to Order

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

Specification
External pilot

4 P, E port entry

<u> </u>				
U	U side*1			
D	D side*1			
В	Both sides			

*1 Plugs are mounted on the opposite side of the selected ports.

5 A, B port size Thread piping

5

Symbol	A, B port	JSY1000	JSY3000	JSY5000
М3	M3 x 0.5	•	_	_
M5	M5 x 0.8	•	•	_
01	1/8	_	•	•
02	1/4	_	_	•

6 Thread type

Nil	Rc
F	G
N	NPT

3 Valve stations

02

20

Stations

2 stations

20 stations

7 Mounting

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

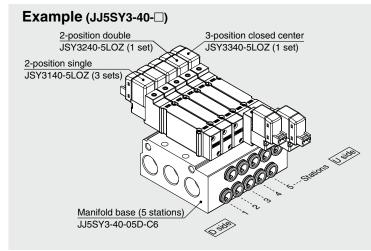
- Only direct mounting is available for Type 41 (Bottom ported).
- Refer to page 45 for the fixation of DIN rail mounting type manifold.

One-touch fitting (Metric)

S	Symbol	A, B port	JSY1000	JSY3000	JSY5000		
	C2	ø2	•	_	_		
Fixed	C4	ø4	•	_	_	60	
l i Č	C6	ø6	_	•	_	COL	
	C8	ø8	_	_	•	9	
	KC2	ø2	•			Type 40	Type 41
<u>o</u>	KC4	ø4	•	_	_	(Side ported)	(Bottom ported)
ap	KC6	ø6	•	•		and the same of th	
Replaceable	KC8	ø8	_	•	_		
de	KC10	ø10	_	_	•		
Œ	KC12	ø12	_	_	•		
	M*1	A, B ports mixed	●* ²	•	•		
		port size ad piping)	1/8	1/4	3/8		8 8

- *1 When ports are mixed sizes, indicate the piping specifications on the manifold specification sheet.
- *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

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

With power saving circuit

JSY1000 Series JSY3000/5000 Series

Made to Order **Made to Order**

(Refer to page 40 for details.) Specification

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

External pilot

Series

1	JSY1000
3	JSY3000
5	JSY5000

2 Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
Α	Dual 3-port (N.C./N.C.)
В	Dual 3-port (N.O./N.O.)
С	Dual 3-port (N.C./N.O.)

3 Pilot valve exhaust method

Pilot valve individual exhaust

4 Rated voltage

24 VDC

6 Light/surge voltage suppressor

7	With light/surge voltage
	suppressor

5 Electrical entry

	L plug co	onnector	M plug c	onnector
	L	LO	M	MO
000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire (300 mm)	MO: Without connector
JSY1000				
000	L: With lead wire (300 mm)	LO: Without connector	M: With lead wire	MO: Without connector
JSY3000/5000	(300 11111)	Connector	(300 mm)	

* Refer to page 43 for the lead wire length of L and M plug connectors.

Manual override

U IVI	anuai overnue				
JSY1000	Nil: Non-locking push type	D : Push-turn locking	J. J	E: Push-turn locking	+
YSL		slotted type		lever type	
00	Nil:	D:		E:	ļ
32	Non-locking	Push-turn	t	Push-turn	ن 🔨
8	push type	locking		locking	
30		slotted type		lever type	
JSY3000/5000					

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.

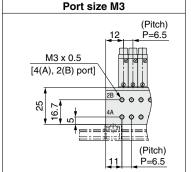
⚠ Caution

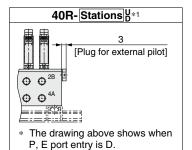
If the JSY3000/5000 series will be continuously energized, please be sure to use the power saving circuit (continuous duty type). Refer to Made to Order on page 40.

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

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

Type 40/Side Ported Non Plug-in Dimensions: JSY1000 Series **Metal Base** Port Size: M3, M5 JJ5SY1-40(R)-Stations P-M3 □(D) (Lead wire length) D side (L3) U side (11)(For DIN rail mounting) (5.3)(L4)Approx. (DIN rail mounting hole pitch: 12.5) M5 x 0.8 51.9 Manual override (External pilot*1) (Pitch) DIN rail holding screw 46 Push-turn locking P=10.5 [Pilot EXH port] (For DIN rail mounting) slotted type: Press, 1/8 then rotate it. [1(P), 5(EA), 3(EB) port] DIN rail 13.2 (5.5)(35) 82.5 (99) 112 20 12 84 29.4 25. 2 17.7 10.3 2 x ø4.3 _(8) (For mounting) 11.3 M5 x 0.8 (External pilot*1 3.5 [External pilot port] (L5) L1 M plug connector (M) Approx. 300 (Lead wire length) (Station 1)----(Station n) 5.4 (Light/surge voltage suppressor) M5 x 0.8 [4(A), 2(B) port] 0 8 66 $\oplus \ \oplus^{4A}$ 10.5 P=10.5 Port size M3





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

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

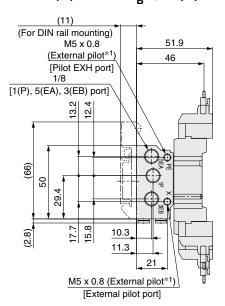
n: Stations

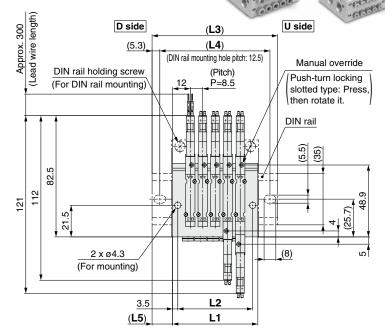
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	30.5	37.0	43.5	50.0	56.5	63.0	69.5	76.0	82.5	89.0	95.5	102.0	108.5	115.0	121.5	128.0	134.5	141.0	147.5
L2	23.5	30.0	36.5	43.0	49.5	56.0	62.5	69.0	75.5	82.0	88.5	95.0	101.5	108.0	114.5	121.0	127.5	134.0	140.5
L3	60.5	73.0	73.0	85.5	85.5	98.0	98.0	110.5	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: Ø2, Ø4/Fixed

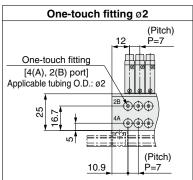
JJ5SY1-40(R)-Stations $\stackrel{\text{U}}{\mathbb{R}}$ - $\stackrel{\text{C2}}{\mathbb{C}^2}$ -(D)

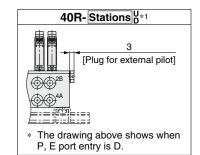




M plug connector (M) 63.6 Approx. 300 (Lead wire length) 5.4 ۲. 90 66

(Station 1) ---- (Station n) One-touch fitting [4(A), 2(B) port] (Light/surge voltage suppressor) Applicable tubing O.D.: 25 (Pitch) 10.5





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

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	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

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

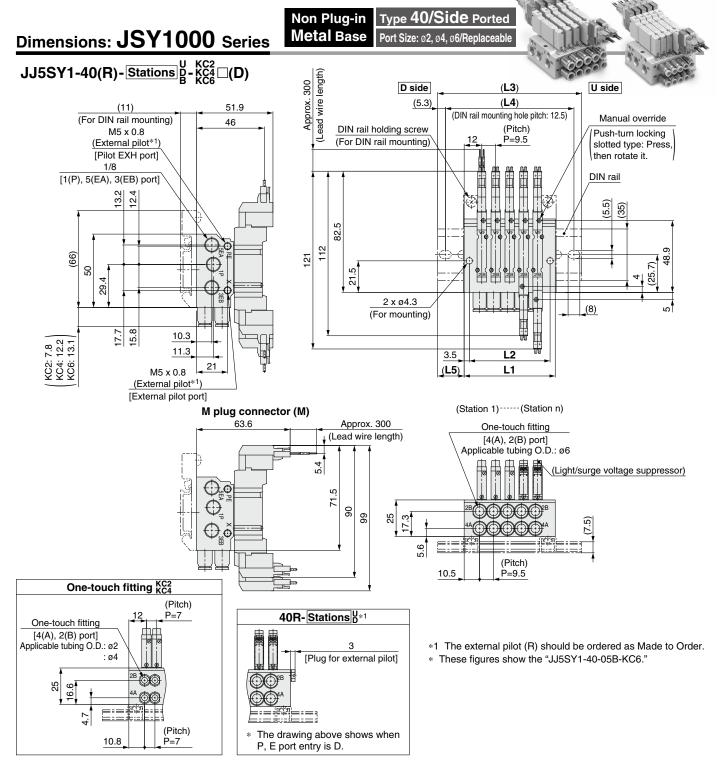
Chart

Valve

Non Plug-in

JSY1000

JSY3000 JSY5000



L Dimensions: Port Size KC6

n: 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
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

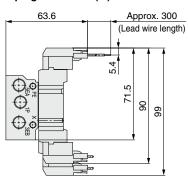
n: Stations

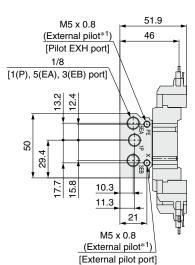
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0	157.0
L2	24.0	31.0	38.0	45.0	52.0	59.0	66.0	73.0	80.0	87.0	94.0	101.0	108.0	115.0	122.0	129.0	136.0	143.0	150.0
L3	60.5	73.0	73.0	85.5	85.5	98.0	110.5	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

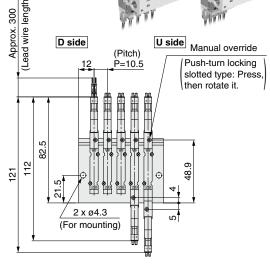
Dimensions: JSY1000 Series

JJ5SY1-41(R)-Stations $^{\text{U}}_{\text{R}}$ - $^{\text{M3}}_{\text{M5}}$

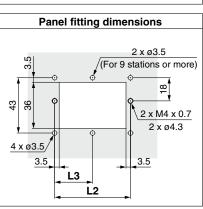
M plug connector (M)

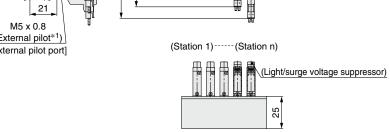


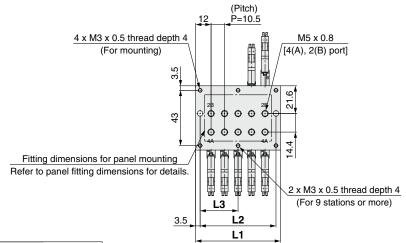


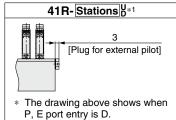


Port size M3 (Pitch) P=6.5 M3 x 0.5 [4(A), 2(B) port] 2









- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-41-05B-M5."

L Dime	ensior	ns: Po	ort Siz	e M5														n: \$	Stations
	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

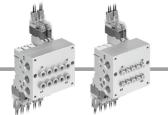
	0		00.0	00.0		00	00				.00.0								
L2	27.5	38.0	48.5	59.0	69.5	80.0	90.5	101.0	111.5	122.0	132.5	143.0	153.5	164.0	174.5	185.0	195.5	206.0	216.5
L3	_	_	_	_	_	_	_	50.5	55.8	61.0	66.3	71.5	76.8	82.0	87.3	92.5	97.8	103.0	108.3
. Dime	ensior	ns: Po	rt Siz	е МЗ														n: \$	Stations

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.5	,, t O12	-0 1110														11. 0	Jianons
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

Dimensions: JSY1000 Series

Non Plug-in **Metal Base**

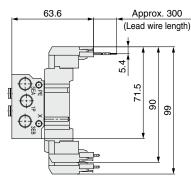
Type 41/Bottom Ported Port Size: Ø2, Ø4/Fixed

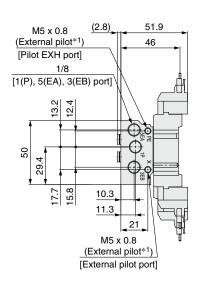


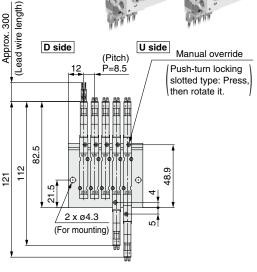
(Light/surge voltage suppressor)

JJ5SY1-41(R)-Stations $^{\text{U}}_{\text{R}}$ - $^{\text{C2}}_{\text{C4}}$

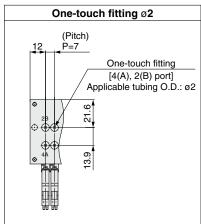
M plug connector (M)

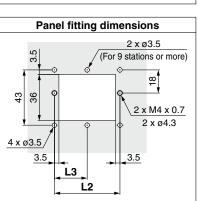


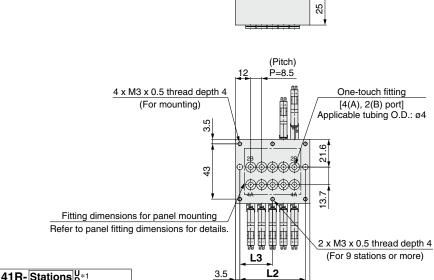


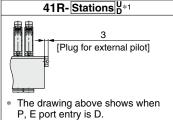


(Station 1)---- (Station n)







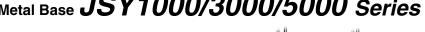


- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-41-05B-C4."

L1

L Dime	ensior	ns: Po	ort Siz	e C4														n: 8	Stations
/ /s	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

L Din	nensio	ns: Po	ort Siz	ze C2														n: \$	Stations
L	າ 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

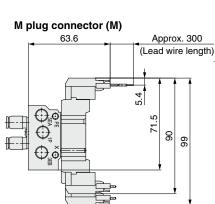


Dimensions: JSY1000 Series

Metal Base

Non Plug-in Type 41/Bottom Ported Port Size: Ø2, Ø4, Ø6/Replaceable

JJ5SY1-41(R)-Stations D-KC2



51.9 (17.2)M5 x 0.8 46 (External pilot*1) [Pilot EXH port] 1/8 [1(P), 5(EA), 3(EB) port] 20 29. 15.8 10.3 ₽. 11.3 M5 x 0 8

(External pilot*1)

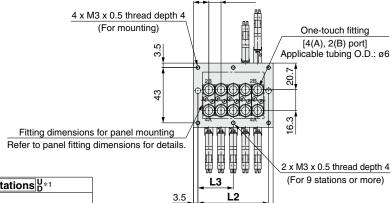
[External pilot port]

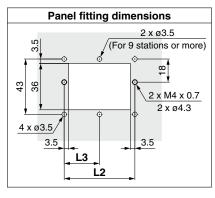
(Lead wire length Approx. D side U side Manual override (Pitch) Push-turn locking slotted type: Press then rotate it. 82.5 112 12 2 x ø4.3 (For mounting)

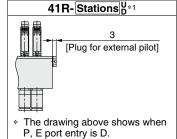
One-touch fitting KC2 (Pitch) KC2: 11.9 KC4: 16.3 One-touch fitting [4(A), 2(B) port] Applicable tubing O.D.: ø2 2

(Light/surge voltage suppressor) 25

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







- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY1-41-05B-KC6."

L1

L Dime	ensior	ns: Po	ort Siz	e KC	6													n: 8	Stations
	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	_	_	_	_	_	_	_	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	ensio	ns: Po	ort Siz	es Ko	C2, K(C4												n: \$	Stations
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	_	_	_	_	_	_	_	36.5	40.0	43.5	47.0	50.5	54.0	57.5	61.0	64.5	68.0	71.5	75.0

Chart

Valve

Non Plug-in

JSY1000 JSY3000

JSY5000

Manifold Exploded View

Fittings, Replacement Parts, Tools

Manifold Options

Made to Order

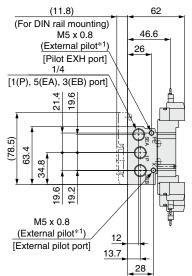
Dimensions: JSY3000 Series

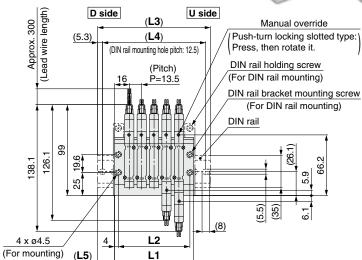
Metal Base Port Size: M5, 1/8

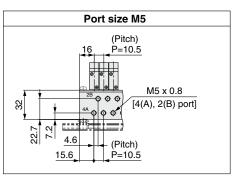
Non Plug-in Type 40/Side Ported

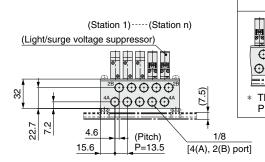


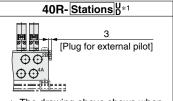
JJ5SY3-40(R)-Stations D-M5 (D)





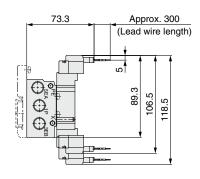






- The drawing above shows when P, E port entry is D.
- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-40-05-01."

M plug connector (M)



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 **Metal Base**

Type 40/Side Ported Port Size: Ø6/Fixed

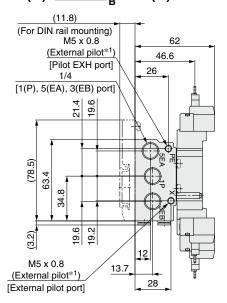
Chart

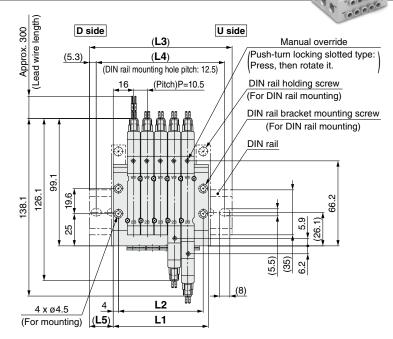
Valve

Non Plug-in JSY1000

Dimensions: JSY3000 Series

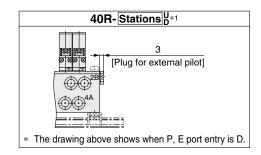
JJ5SY3-40(R)-Stations D-C6 (D)

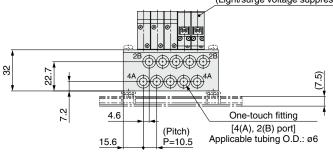




(Station 1)----(Station n)

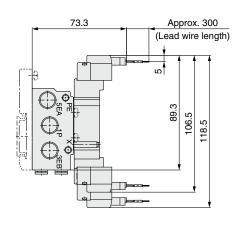
(Light/surge voltage suppressor)





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

M plug connector (M)

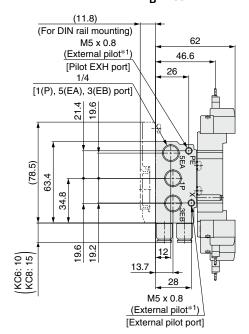


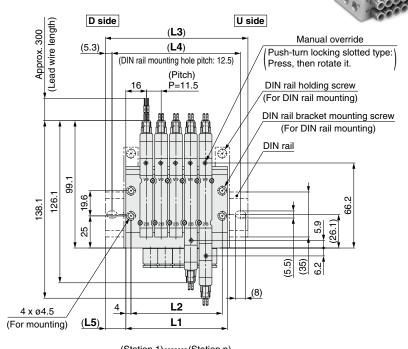
L Dime	ensior	ns: Po	ort Siz	e C6														n: \$	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	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

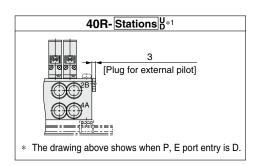
Dimensions: JSY3000 Series

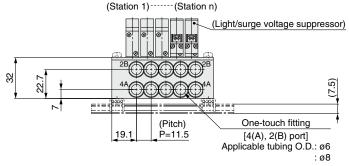
Type 40/Side Ported Non Plug-in **Metal Base** Port Size: Ø6, Ø8/Replaceable

JJ5SY3-40(R)-Stations D- KC6 □(D)



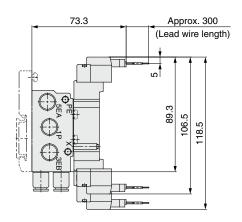






- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-40-05-KC8."

M plug connector (M)



Dimensions: Port Sizes KC6, KC8

L Dime	ensior	ns: Po	rt Siz	es Ko	C6, K0	C8												n: :	Stations
L	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

Valve

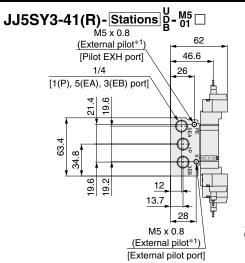
Chart

Non Plug-in

Dimensions: JSY3000 Series

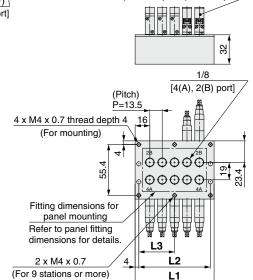
Non Plug-in Type 41/Bottom Ported **Metal Base** Port Size: M5, 1/8

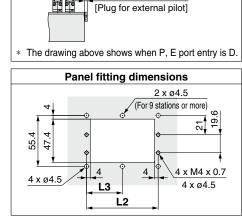
(Station 1)----(Station n)



Lead wire length) 300 D side U side (Pitch) P=13.5 Manual override Push-turn locking slotted type: Press, then rotate it. 99 126. 38.1 4 x ø4.5 (For mounting) (Light/surge voltage suppressor)

Port size M5 (Pitch) P=10.5 (Pitch) P=10.5 M5 x 0.8 [4(A), 2(B) port]



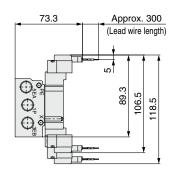


41R-Stations D*1

90 90

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

M plug connector (M)



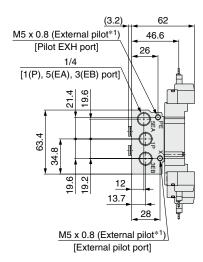
ensions: Port Size 01 (1/8)

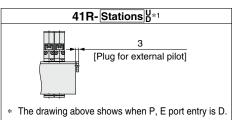
L DIIII	=115101	15. FC	JI L 312	eui	(1/0)													n: s	Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	45.5	59.0	72.5	86.0	99.5	113.0	126.5	140.0	153.5	167.0	180.5	194.0	207.5	221.0	234.5	248.0	261.5	275.0	288.5
L2	37.5	51.0	64.5	78.0	91.5	105.0	118.5	132.0	145.5	159.0	172.5	186.0	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

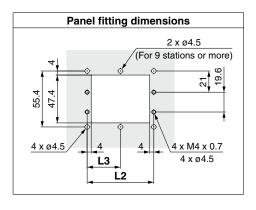
L Dime	ensior	ns: Po	ort Siz	e M5														n: \$	Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0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

Dimensions: JSY3000 Series

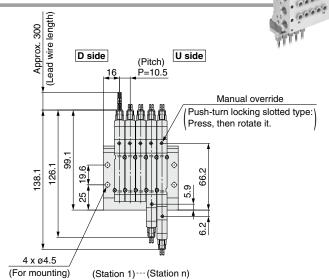
JJ5SY3-41(R)-Stations D-c6



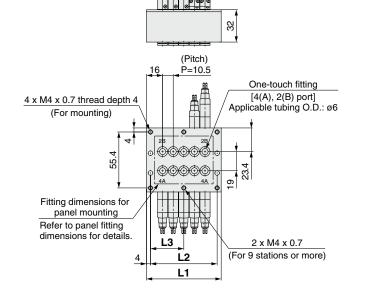




Non Plug-in Type 41/Bottom Ported Metal Base Port Size: Ø6/Fixed

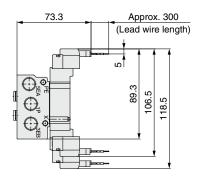


(Light/surge voltage suppressor)



- st 1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY3-41-05-C6."

M plug connector (M)



L Dimensions: Port Size C6

n:	Stations
11.	Otations

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

Non Plug-in

Metal Base

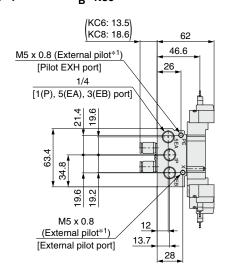
OT 1000/0000/0000 Serie

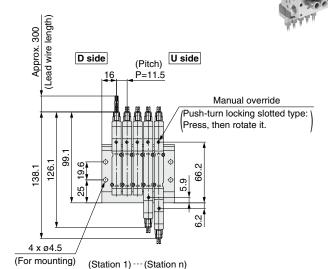
Type 41/Bottom Ported

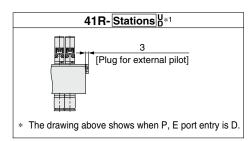
Port Size: Ø6, Ø8/Replaceable

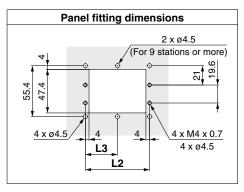
Dimensions: JSY3000 Series

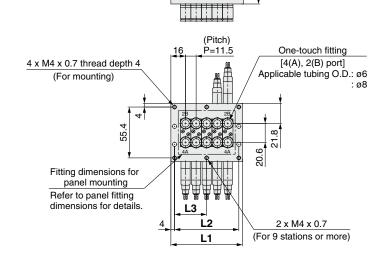
JJ5SY3-41(R)-Stations $\stackrel{\text{U}}{\text{p}}$ - $\stackrel{\text{KC6}}{\text{KC8}}$











0 0 0 0 0

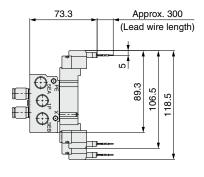
32

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

(Light/surge voltage suppressor)

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

M plug connector (M)



L Dimensions: Port Sizes KC6, KC8

n:	Stations
	Ottations

L	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

SMC

Chart

Valve

Non Plug-in Type 40 Type Metal Bas

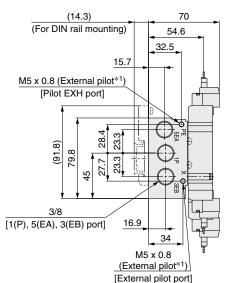
JSY1000

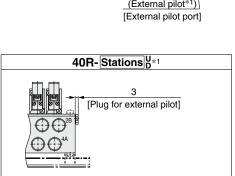
JSY5000

Dimensions: JSY5000 Series

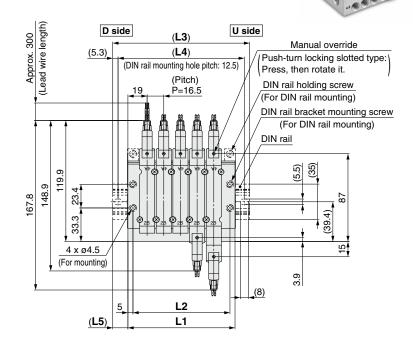
Non Plug-in Type 40/Side Ported Port Size: 1/8, 1/4

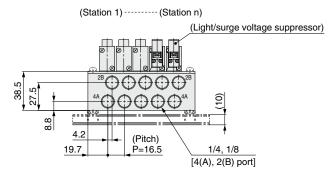
JJ5SY5-40(R)-Stations $\stackrel{\text{U}}{\text{R}}$ - $\stackrel{\text{01}}{\text{02}}$ \square (D)





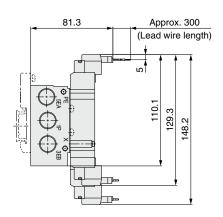
* The drawing above shows when P, E port entry is D.





- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-40-05B-02."

M plug connector (M)



L Dimensions: Port Sizes 01 (1/8), 02 (1/4)

L DIIIIe	113101	15. FC	JI L 312	262 01	(1/0)	, 02 (1	/ 4)											n: s	Stations
L	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 40/Side Ported Port Size: Ø8/Fixed

Chart

Valve

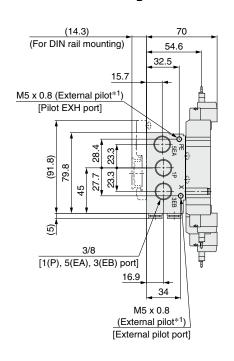
Non Plug-in

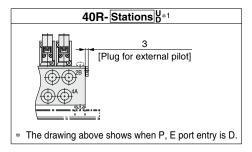
JSY1000

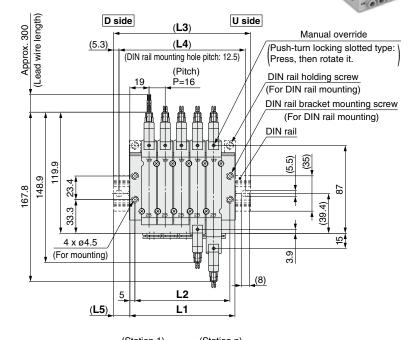
JSY3000

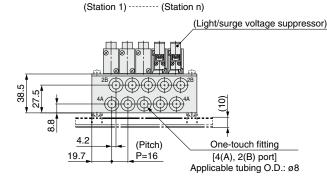
Dimensions: JSY5000 Series

JJ5SY5-40(R)-Stations ^UP-C8 □(D)



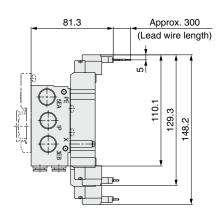






- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-40-05B-C8."

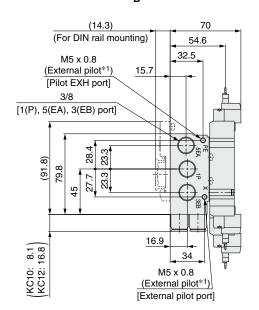
M plug connector (M)

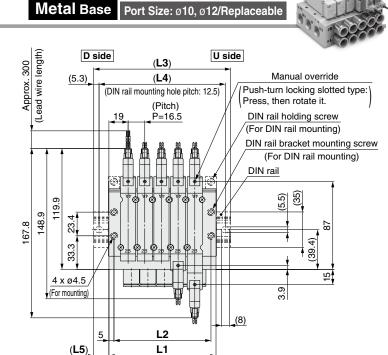


L Dime	ensior	ns: Po	ort Siz	e C8														n: S	Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	56.0	72.0	88.0	104.0	120.0	136.0	152.0	168.0	184.0	200.0	216.0	232.0	248.0	264.0	280.0	296.0	312.0	328.0	344.0
L2	46.0	62.0	78.0	94.0	110.0	126.0	142.0	158.0	174.0	190.0	206.0	222.0	238.0	254.0	270.0	286.0	302.0	318.0	334.0
L3	85.5	98.0	123.0	135.5	148.0	160.5	185.5	198.0	210.5	223.0	248.0	260.5	273.0	298.0	310.5	323.0	348.0	360.5	373.0
L4	75.0	87.5	112.5	125.0	137.5	150.0	175.0	187.5	200.0	212.5	237.5	250.0	262.5	287.5	300.0	312.5	337.5	350.0	362.5
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

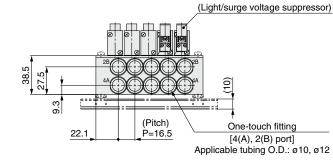
Dimensions: JSY5000 Series

JJ5SY5-40(R)-Stations $_{R}^{U}$ - $_{KC12}^{KC10}\square(D)$

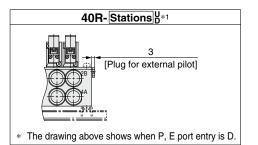




Non Plug-in Type 40/Side Ported

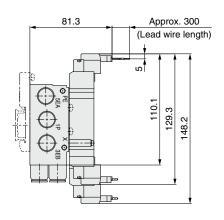


(Station 1) ---- (Station n)



- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-40-05B-KC12."

M plug connector (M)



L Dimensions: Port Sizes KC10, KC12

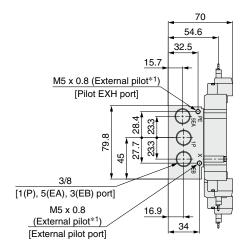
L Dime	ensior	ns: Po	ort Siz	es KO	C10, K	(C12												n: \$	Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	56.5	73.0	89.5	106.0	122.5	139.0	155.5	172.0	188.5	205.0	221.5	238.0	254.5	271.0	287.5	304.0	320.5	337.0	353.5
L2	46.5	63.0	79.5	96.0	112.5	129.0	145.5	162.0	178.5	195.0	211.5	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 Diverse

Non Plug-in Type 41/Bottom Ported Metal Base Port Size: 1/8, 1/4

JJ5SY5-41(R)-Stations $\stackrel{\text{U}}{\text{P}}$ - $\stackrel{\text{O1}}{\text{O2}}$

Dimensions: JSY5000 Series



Manual override

Perfect

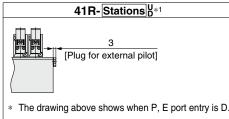
Push-turn locking slotted type:

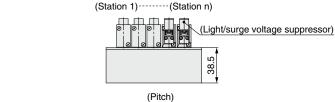
Press, then rotate it.

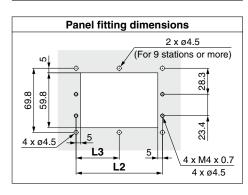
Page 16.5

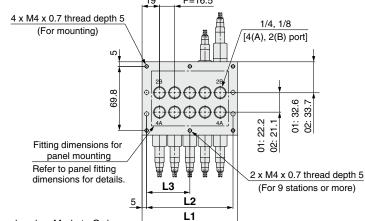
Push-turn locking slotted type:

Press, then rotate it.



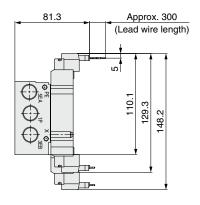






- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-41-05B-02."

M plug connector (M)



L Dime	ensio	ns: Po	ort Siz	zes 01	(1/8)	, 02 (1	/4)											n: 8	Stations
L	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

SMC

Chart

Valve

Non Plug-in Type 40 Typ

JSY1000

JSY3000

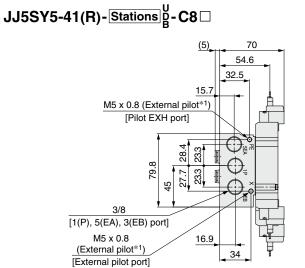
Manifold Exploded View

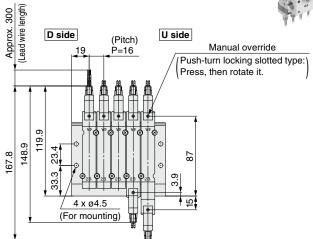
Fittings, Replacement Parts, Tools

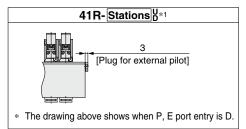
Dimensions: JSY5000 Series

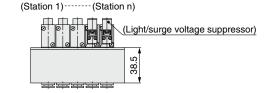
Non Plug-in Type 41/Bottom Ported Metal Base Port Size: Ø8/Fixed

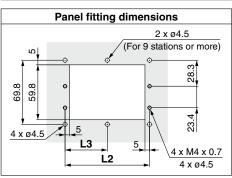


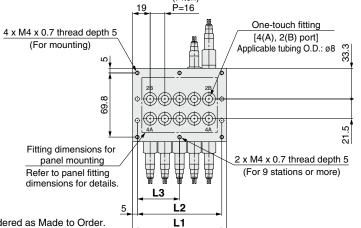








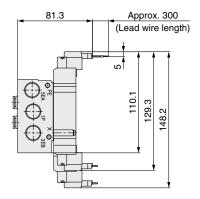




(Pitch)

- *1 The external pilot (R) should be ordered as Made to Order.
- * These figures show the "JJ5SY5-41-05B-C8."

M plug connector (M)



L	Dimen	sions:	Port	Size	C8
---	-------	--------	-------------	------	----

n:	Stations
	Ottations

L	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

Metal Base

Non Plug-in Type 41/Bottom Ported Port Size: Ø10, Ø12/Replaceable

Chart

Valve

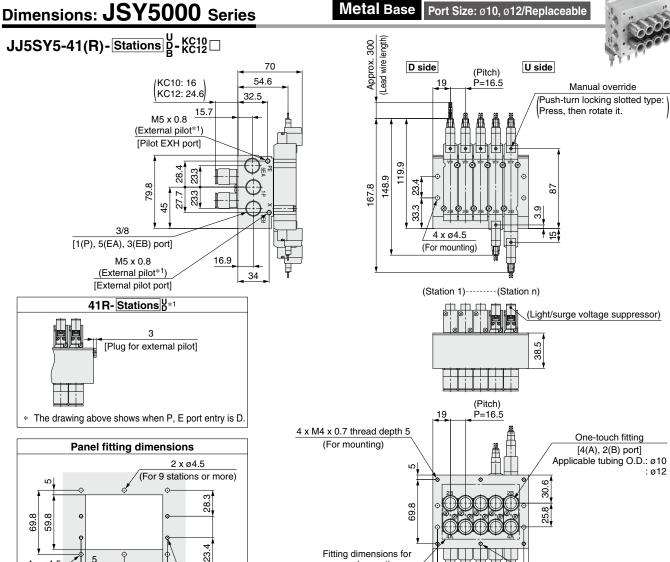
Non Plug-in

JSY1000

JSY3000

Manifold Exploded View

Fittings, Replacement Parts, Tools



panel mounting

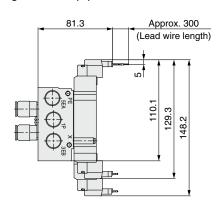
dimensions for details.

L2

Refer to panel fitting

M plug connector (M)

4 x ø4.5



L2

4 x M4 x 0.7

4 x ø4.5

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

* These figures show the "JJ5SY5-41-05B-KC12."

L Dimensions: Port Sizes KC10, KC12

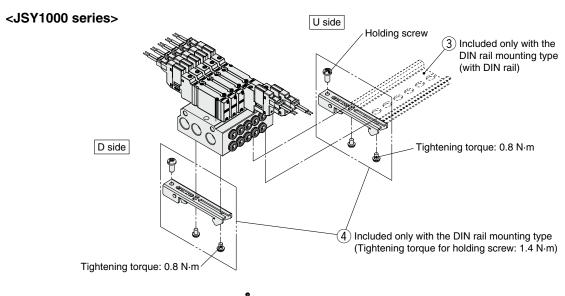
n: Stations

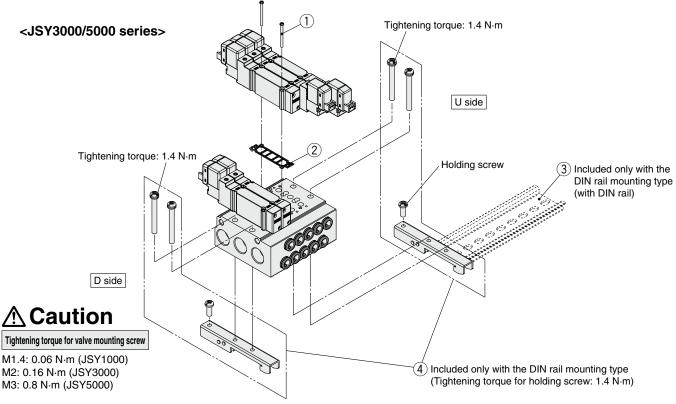
2 x M4 x 0.7 thread depth 5

(For 9 stations or more)

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			-00	, .													、	Otations
L	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)



Made to Order

JSY1000/3000/5000 Series

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 size	Э	JSY1000	JSY3000	JSY5000	Note
	ø2	KQSY10-C2	_	_	
	ø4	KQSY10-C4-X1336	KQSY30-C4	_	
A B nort	ø6	KQSY11-C6-X1336	KQSY30-C6	KQSY50-C6	Part number is for one piece.
A, B port	ø8	_	KQSY30-C8-X1336	KQSY50-C8	(Sales unit: 10 pcs.)
	ø10	_	_	KQSY50-C10	
	ø12	_	_	KQSY50-C12-X1336	

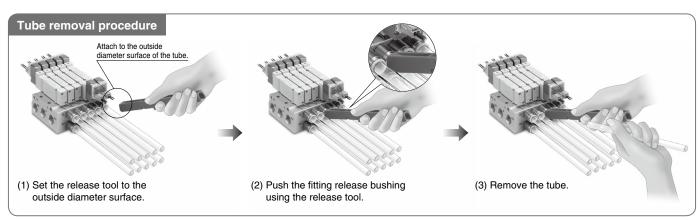
■Clip, Port Plate

	JS'	/1000			
	For A, B port C2/C4 fittings	For A, B port C6 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.)

Series	For JSY1000 (6.5 mm pitch)	For JSY1000 (9 mm pitch) For JSY3000	For JSY5000
Releasing tool part no.	TG-0204	TG-0608	TG-1012
Applicable tubing O.D.	ø2/ø4	ø6/ø8	ø10/ø12



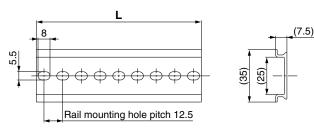


JSY1000/3000/5000 Series Manifold Options

■ 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 □.

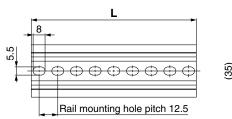


No.	S3	S2	S1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L dimension	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5
Weight [g]	10.9	13.1	15.4	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4
No.	16	17	18	19	20	21	22	23	24	25	26	27	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
No. L dimension	35 535.5	36 548	37 560.5	38 573	39 585.5	40 598	41 610.5	42 623	43 635.5	44 648	45 660.5	46 673	47 685.5	48 698	49 710.5	50 723	51 735.5	52 748	53 760.5
									-		-	_			-		-		
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
L dimension Weight [g]	535.5 96.4	548 98.6	560.5 100.9	573 103.1	585.5 105.4	598 107.6	610.5	623 112.1	635.5 114.4	648 116.6	660.5 118.9	673 121.1	685.5 123.4	698 125.6	710.5 127.9	723 130.1	735.5 132.4	748 134.6	760.5

■ 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 .



No.	S1	0	1	2	3	4	5	6	7	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	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	170.3	173.4	176.6	179.8	182.9	186.1	189.2	192.4	195.6	198.7
No.	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71			
L dimension	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]	201.9	205.1	208.2	211.4	214.5	217.7	220.9	224	227.2	230.4	233.5	236.7	239.8	243	246.2	249.3			



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

Manifold Options

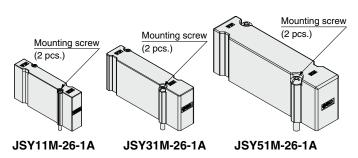
* Refer to page 39 for dimensions.

M3: 0.8 N·m (JSY5000)

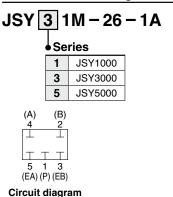
■ Blanking plate

[With two mounting screws]

Used when valve additions are expected or for maintenance.



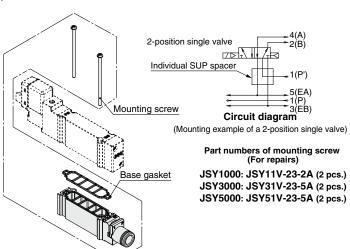
How to Order Blanking Plates



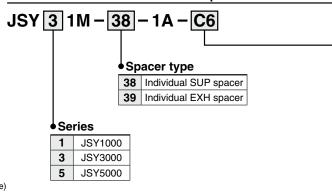
■Individual SUP spacer

[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



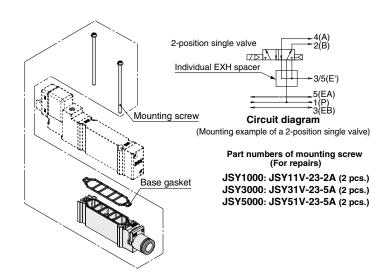
Port size (One-touch fittings)

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

■Individual EXH spacer

[With a 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.



SMC

Chart

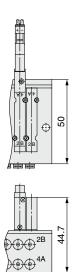
Valve

Non Plug-in

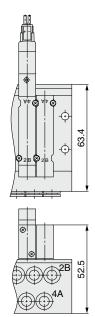
Dimensions: Manifold Options

■Blanking plate

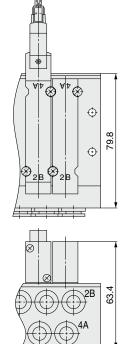
JSY1000 series



JSY3000 series

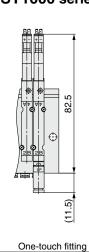


JSY5000 series



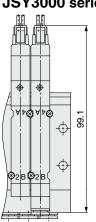
<Type 40>

■ Individual SUP/EXH spacer
JSY1000 series



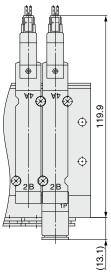
JSY3000 series

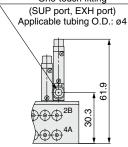
<Type 40>



JSY5000 series

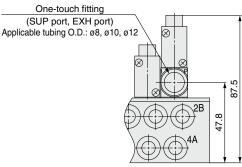
<Type 40>





<Type 40>

One-touch fitting
(SUP port, EXH port)
Applicable tubing O.D.: ø6



<Type 40>

<Type 40>



JSY1000/3000/5000 Series **Made to Order**

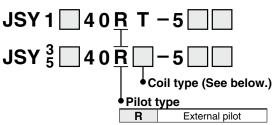


Please contact SMC for detailed dimensions, specifications, and delivery times.

1 External Pilot

How to Order Manifolds

How to Order Valves p. 16



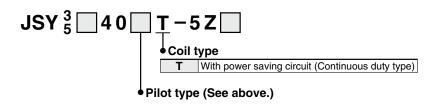
- External pilot specification is not applicable for 4-position dual 3-port valves.
- * When pilot type "R" is selected, select the external pilot type "R" for the manifold model.

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

Be sure to select the power saving circuit type when the JSY3000/5000 series is continuously energized for long periods of time. Be careful of the energizing time when the power saving circuit is selected. Refer to page 43 for details.

0.1 W: JSY3000/5000

How to Order Valves



Chart

Valve

Non Plug-in

JSY1000

JSY5000

Manifold Exploded View

Manifold Options

Made to Order





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

Environment

⚠ Warning

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

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

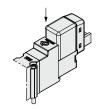
■ Non-locking push type

Push down on the manual override button until it stops.

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





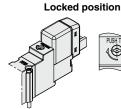




JSY3000/5000 series







■ Push-turn locking lever type [E type]

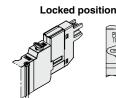
Push down on the manual override by finger until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counterclockwise.

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

JSY1000 series



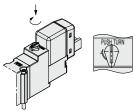


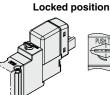




Carefully check the manual override projection amount. Max. (at OFF): 3.2 mm

JSY3000/5000 series







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



Manifold Options



JSY1000/3000/5000 Series Specific Product Precautions 2

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

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.

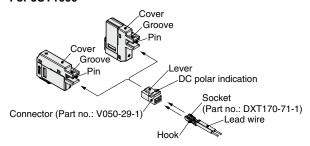
Plug position		B port	A port
Type of actuation		N.C.	N.O.
solenoids	Single	(A)4 2(B) ✓ → → → → → → → → → → → → → → → → → → →	(A)4 2(B) ✓ → → → → → → → → → → → → → → → → → → →
Number of solenoids	Double	(A)4 2(B) (ZD-) 1 3(D) (EA)5 1 3(EB) (P)	(A)4 2(B) ZD

How to Use Plug Connector

1. Attaching and detaching connectors

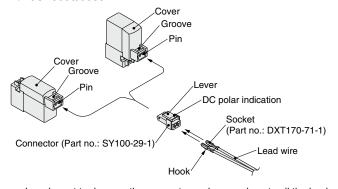
- To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.
- To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb, 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



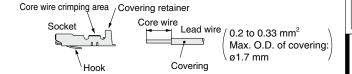
* In order not to damage the connector and cover, do not pull the lead wire excessively (with a force of 30 N or more).

How to Use 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

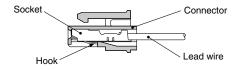
Insert the sockets into the square holes of the connector (\oplus , \ominus indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector.

(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.



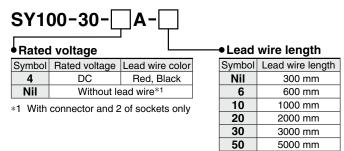




Be sure to read this before handling the products. Refer to the back cover for safety instructions. For 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Plug Connector How to Order For JSY1000 V050-30 Rated voltage Lead wire length Symbol Rated voltage Lead wire color Symbol Lead wire length DC Red. Black Nil 300 mm Nil Without lead wire*1 600 mm 10 1000 mm *1 With connector and 2 of sockets only 20 2000 mm 30 3000 mm 50 5000 mm

■ 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

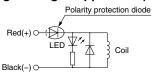
For DC JSY3140-5LOZ SY100-30-4A-20

Surge Voltage Suppressor

∧ Caution

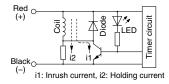
<For DC>
L/M Plug Connector

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



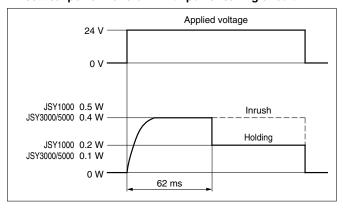
- \cdot Connect in accordance with the +, polarity indication.
- · When wiring is done at the factory, positive (+) is red and negative (-) is black.
- With power saving circuit (JSY3000/5000: Made to Order)

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



- 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.)





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

Continuous Duty

∧ Caution

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

Energization of a 2-Position Double Solenoid Valve

⚠ Caution

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

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.

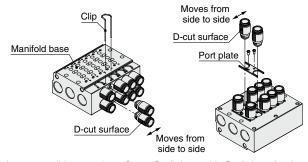
Use caution as it may cause air leakage if the clip and the plate are not inserted securely enough when they are switched. Refer to page 36 for part numbers of One-touch fittings.

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)

KQSY11-C6-X1336 (JSY1000) KQSY30-C8-X1336 (JSY3000) 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.
- 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

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Series	Model	Piping	Port	Fitting	Applicable tubing O.D.					
		port	size	rilling	ø2	ø4	ø6	ø8	ø10	ø12
JSY1000	JJ5SY1-40/41(R) Manifold base	1P, 5EA 3EB	1/8	KQ2H						
				KQ2S						
		X, PE	M5	KQ2H						
			IVIO	KQ2S						
		4A, 2B	I M5 -	KQ2H						
				KQ2S						
			МЗ	KQ2H						
				KQ2S						

Series	Model	Piping	Port	Fitting	Applicable tubing O.D.					
		port	size	Fitting	ø2	ø4	ø6	ø8	ø10	ø12
JSY3000	JJ5SY3-40/41(R) Manifold base	1P, 5EA 3EB	1/4	KQ2H						
				KQ2S						
		X, PE	M5	KQ2H						
				KQ2S						
		4A, 2B	1/8	KQ2H						
				KQ2S				\supset		
				KQ2H						
			M5	KQ2S						

Series	Model	Piping	Port	Fitting	Applicable tubing O.D.					
Series		port s	size		ø2	ø4	ø6	ø8	ø10	ø12
JSY5000	JJ5SY5-40/41(R) Manifold base	1P, 5EA 3EB	3/8	KQ2H						
				KQ2S						
		X, PE	M5	KQ2H						
				KQ2S						
		4A, 2B	1/4	KQ2H						
				KQ2S						
			1/8	KQ2H						
				KQ2S						



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

Other Tube Brands

⚠ Caution

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

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

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

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.

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.



⚠ Safety Instructions

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

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

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

⚠ Danger: Danger indicates a nazaru wiun a nigin level on the first avoided, will result in death or serious injury. **Danger** indicates a hazard with a high level of risk which, *1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power – General rules relating to systems.

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

ISO 10218-1: Manipulating industrial robots - Safety.

⚠Warning

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

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

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

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

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

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

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

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

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

Read and accept them before using the product.

Limited warranty and Disclaimer

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

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

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

Compliance Requirements

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

⚠ Caution

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

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