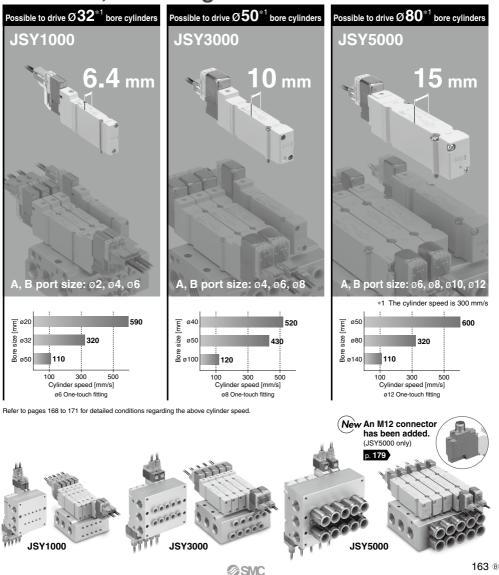
Compact 5-Port Solenoid Valve JSY1000/3000/5000 Series

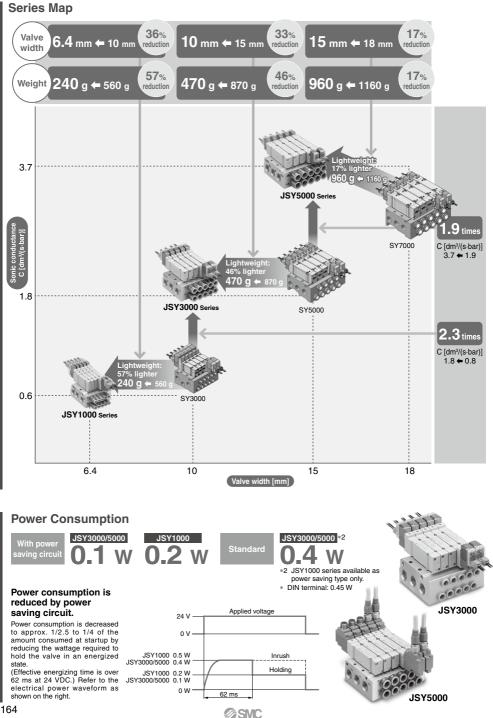
Non Plug-in

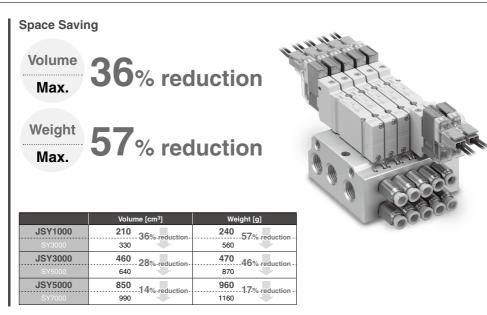
Size reduction possible thanks to a flow increase This leads to space saving, weight reduction, and a large flow rate.



(RoHS)

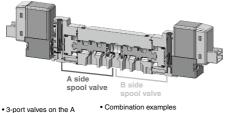
Non Plug-in Compact 5-Port Solenoid Valve JSY1000/3000/5000 Series





4-Position Dual 3-Port Valve Available

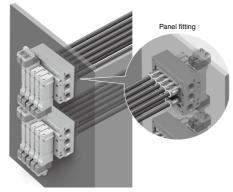
• Two 3-port valves built into one body

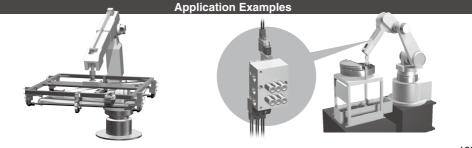


- 3-port valves on the A and B sides can operate independently.
- When used as a 3-port valve, only half the number of stations is required.
- Can also be used as a 4-position, 5-port valve

Combination examples										
A side	B side									
N.C. valve	N.C. valve									
N.O. valve	N.O. valve									
N.C. valve	N.O. valve									
	A side N.C. valve N.O. valve									





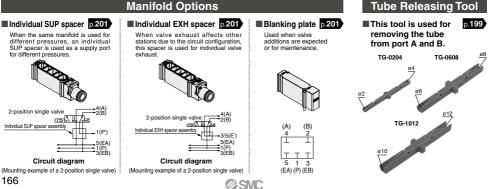


Series Variations

	c	Sonic con C [dm ³ /								P	ort si	ze					Ma	inifold	Optio	ons	Va		ptions		oliant	
	lirectio	{ 4/2→ (A/B→E	>5/3]		voltage					А, В	port						olate	ual Icer	lal Icer	ecer with lease valve	ow ification	ssures	essure	j sizes	65 comp	
	Piping direction	4 (A), 2 (B)		Type of actuation	Rated voltage		nreac		Ē			e-tou		-		P, E port	Blanking plate	Individual SUP spacer	Individual EXH spacer	SUP stop valve spacer v residual pressure release	Vacuum/Low pressure specification	Different pressures	Reverse pressure	Mixed fitting sizes	Enclosure IP65 compliant	
	4	port		A socition single		M3	M5	1/8	1/4	ø2	ø4	ø6	ø8	ø10	ø12		Ë	S	ш	SUP residua	bress	Diffe	Rev	Mixe	Encl	
JSY 1000	Side		0.63	2-position single (A)4 2(B) □□□□□□□□□□□□□□□ (EA)513(EB) (P)																						
1 - C		Ø6		(A)4 2(B) (A)4 2(B) (EA)513(EB) (P)		•	•	_	_	•	•	•	_	_	_	1/8				*1 0 p.201-1					_	
	Bottom		0.75	3-position closed center (A)4 2(B) (A)4 2(
JSY 3000	Side		1.81	3-position exhaust center (A)4 2(B) (EA)5 13(EB) (P)																						
	mo	ø8		3-position pressure center (A)4 2(B) (EA)513(EB) (P)	24 VDC	_	•	•	_	_	•	•	•	_	_	1/4	О р.201	O p.201	O p.201	_	A External pilot	O Individual SUP	A External pilot	•		
	Bottom		2.13	4-position dual 3-port valve N.C. valve x 2 pcs. 4(A) 2(B)																					*2	
JSY 5000	Side	ø12	3.72	SEA) (10) 3(EB) N.O. valve x 2 pcs. 4(A) 2(B) CENT 3 CENT 3 SEA) (10) 3(EB) N.C. valve, N.O. valve		_	_	•	•	_		•	•	•	•	3/8				_						
	Bottom		4.47	1 pc. of each 4(A) 2(B) 2(B) 5(EA) 1(P) 3(EB) de to Order (Refer to page 2)																						

● Standard ○ Option ▲ Made to Order (Refer to page 203.) *1 Only M5 and ø6 for the A, B ports

*2 Only for when using an M8 connector, DIN terminal, or M12 connector (DIN terminal and M12 connector: Only for the JSY5000)



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Optimum Actuation Size Chart of Air Cylinder......p. 168

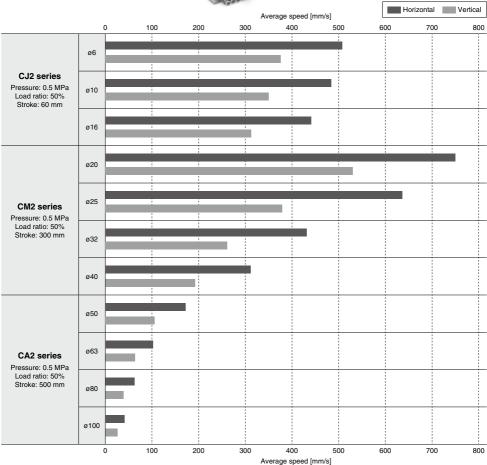
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Valve Constructionp. 17	74
Valve Replacement Partsp. 17	75

		fold Plug-in Metal Base 40 Side Ported/Type 41 Bottom Portedp. 177
		Non Plug-in Metal Base (Specifications, Flow Rate Characteristics, Weight) p. 177
JSY1000 Side ported	JSY1000 Bottom ported	Dimensions/JSY1000: Type 40 Side Ported p. 180
Vicinia	Carlo	Dimensions/JSY1000: Type 41 Bottom Ported ····· p. 183
A Discourse	internet.	Dimensions/JSY3000: Type 40 Side Ported ····· p. 186
JSY3000 Side ported	JSY3000 Bottom ported	Dimensions/JSY3000: Type 41 Bottom Ported ······ p. 189
	and the second	Dimensions/JSY5000: Type 40 Side Ported ····· p. 192
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One-touch Fittings	s, Clip, Port Plate	p, Tube Releasing Toolp. 199
Manifold Options		
Made to Order		p. 203
Specific Product F	Precautions	p. 204

For JSY1000, A, B port: Ø4



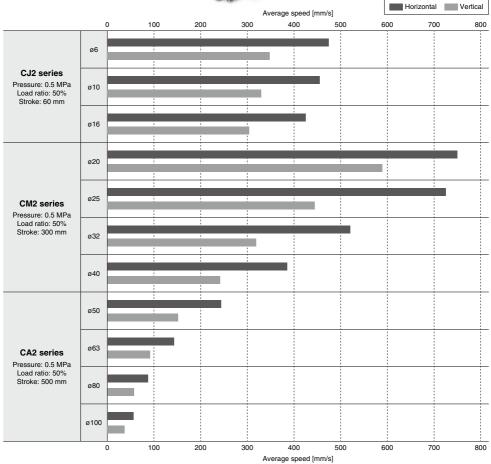


- The average speed of the cylinder is obtained by dividing the stroke by the total stroke time.
- * Formula for load ratio: Load ratio = ((Load mass x 9.8)/Theoretical output) x 100%
- Cylinder for horizontal use are based on the coefficient of rolling friction 0.1.
- * Operating piston speed is different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

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

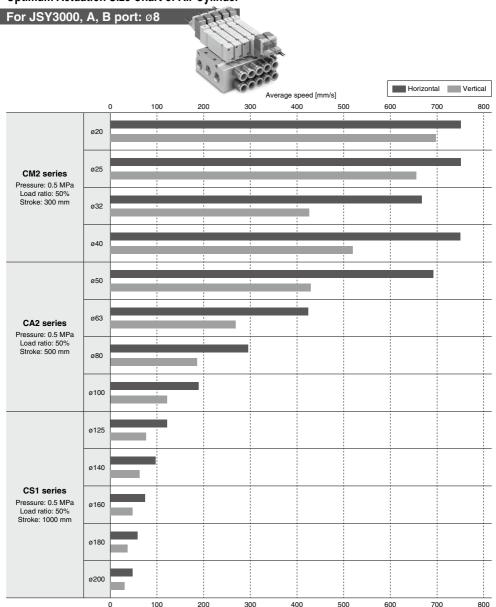
For JSY1000, A, B port: Ø6





- * 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.

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

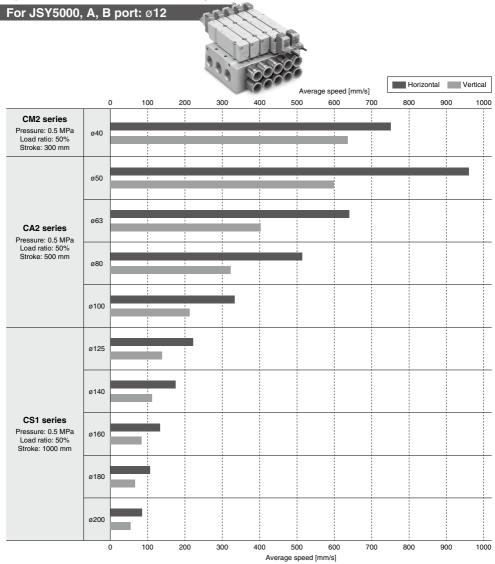


Average speed [mm/s]

- * 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.



4



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



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

JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

		Valve type		Rubber seal							
Fluid				Air							
Internal pilot	2-p	osition single		0.15 to 0.7							
operating pressure		osition double		0.1 to 0.7							
range	<u> </u>	osition		0.2 to 0.7							
[MPa]	4-p	osition dual 3-p	ort valve	0.15 to 0.7							
External pilot	Op	erating pressur	e range	-100 kPa to 0.7							
operating pressure			2-position single								
range [MPa]		ot pressure	2-position double	0.25 to 0.7							
(Made to Order)	ran	ge	3-position								
Ambient and fluid tem	perat	tures [°C]		-10 to 50 (No freezing)							
	1		2-position single/double								
	JS	Y1000/3000	4-position dual 3-port valve	5							
Max. operating			3-position	3							
frequency [Hz]	I		2-position single/double	5							
[HZ]			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							
Dilat and an at the	Inte	ernal pilot		Individual exhaust							
Pilot exhaust type	Ext	ernal pilot (Mac	le to Order)								
Lubrication				Not required							
Mounting orientation*	1			Unrestricted							
Impact/Vibration resis	tance	e ^{*1} [m/s ²]		150/30							
Enclosure				IP40: L plug connector (L), M plug connector (M) IP65: DIN terminal (D) (Y), M8 connector (W) (WA), M12 connector (K)							
Electrical entry				L plug connector (L), M plug connector (M), DIN terminal (D) (Y), M8 connector (W) (WA), M12 connector (K)							
Coil rated voltage [V]				24 VDC							
Allowable voltage flug	tuati	00	JSY1000	-7% to +10% of the rated voltage (24 VDC)							
Anowable voltage lluc	Allowable voltage fluctuation		JSY3000/5000	±10% of the rated voltage							
Deuter concumntion		Standard	JSY3000/5000	0.4 (DIN terminal: 0.35 W [Without light], 0.45 [With light])							
Power consumption	DC	With power*4	JSY1000	0.2*2 [Inrush 0.5, Holding 0.2]							
rwi											
[W]		saving circuit	JSY3000/5000	0.1*3 [Inrush 0.4, Holding 0.1]							
[W] Surge voltage suppres		saving circuit	JSY3000/5000	0.1*3 [Inrush 0.4, Holding 0.1] Diode (Varistor for the DIN terminal type)							

*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 210 for the fixation of DIN rail mounting type manifold.

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

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

*4 For details, refer to page 208.

Valve Specifications JSY1000/3000/5000 Series

Response Time/Valve Weight

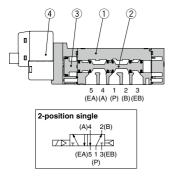
				Response time [ms] (at 0.5 MPa)*1	Weight [g]						
Series	Cooltime	Model	Turne of actuation	Standard							
Series	Seal type	woder	Type of actuation	With light/surge voltage suppressor	L/M plug	DIN terminal	W/WA M8	K M12			
				Z type	connector	terminar	connector	connector			
		JSY1140T	2-position single	15	17						
JSY1000		JSY1240T	2-position double	5	24						
3511000		JSY1(3/4/5)40T	3-position	13	25		_				
		JSY1(A/B/C)40T	4-position dual 3-port valve	14	24						
		JSY3140	2-position single	27	34	_	38	_			
101/2000	Rubber seal	JSY3240	2-position double	10	49		57				
JSY3000	Hubber seal	JSY3(3/4/5)40	3-position	30	52		60				
		JSY3(A/B/C)40	4-position dual 3-port valve	27	48		56	•			
		JSY5140	2-position single	42	66	94	70	88			
JSY5000		JSY5240	2-position double	13	83	139	91	127			
3315000		JSY5(3/4/5)40	3-position	40	93	149	101	137			
		JSY5(A/B/C)40	4-position dual 3-port valve	41	80	136	88	124			

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

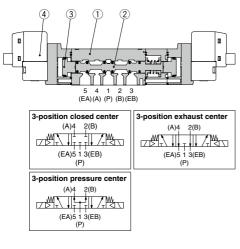
JSY1000/3000/5000 Series Valve Construction

Rubber Seal

2-position single



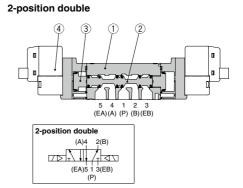
3-position closed center/exhaust center/pressure center



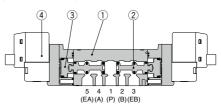
Component Parts

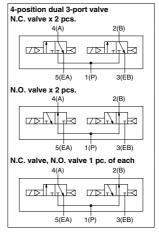
No.	Description	Material
1	Body	Aluminum die-casted
2	Spool valve	Aluminum/HNBR (4-position solenoid valve:) Resin/HNBR
3	Piston	Resin
4	Pilot valve assembly	_
474		

SMC



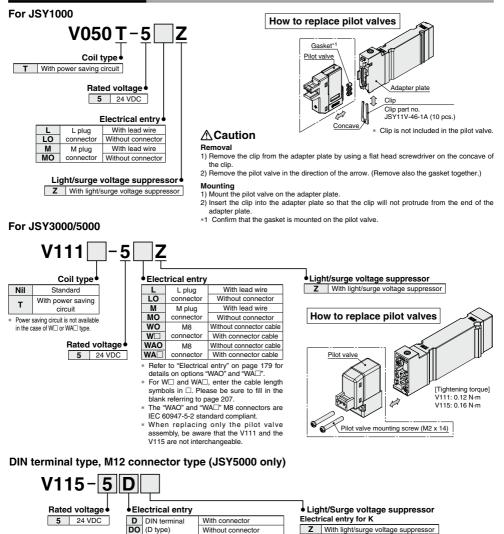
4-position dual 3-port valve





JSY1000/3000/5000 Series Valve Replacement Parts

How to Order Pilot Valves



|--|

Electr	ical entry for D, Y
	With surge voltage suppressor (Non-polar type)
-	With light/surge voltage suppressor

- (Non-polar type)
- Only "DOS" and "YOS" are available for the S type
- DOZ and YOZ are not available

With connector

When replacing only the pilot valve assembly,

be aware that the V111 and the V115 are not

* Refer to "Electrical entry" on page 179 for

details on the "K□" and "KO" types. * Enter the cable length symbols in KD. Please be sure to fill in the blank referring to page 207.

Without connector

With connector cable

Without connector cable

Y DIN terminal

interchangeable.

M12 connector

YO (Y type)

K

ко

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

Manifold Specifications

Manifold typ	e		Non plug-in metal base
SUP/EXH po			Common SUP/EXH
Valve station			2 to 20 stations
		JSY1000	1/8
Port size	1(P), 3/5(E) port	JSY3000	1/4
		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 ø4 One-touch fitting, ø6 One-touch fitting, ø8 One-touch fitting
		JSY5000	1/8, 1/4 ø6 One-touch fitting, ø8 One-touch fitting, ø10 One-touch fitting, ø12 One-touch fitting

Manifold Flow Rate Characteristics/Manifold Weight

	Port	size	Va	lve flow rate	characteristics		Weight: W [g]*1			
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 (P -$	→ A/B)	$4/2 \rightarrow 5/3$ (A/I	$B \rightarrow E$)	(n: stations)			
	(P, EA, EB)	(A, B)	C [dm3/(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 173 for the appropriate number of stations.

* Calculation of effective area S and sonic conductance C: S = $5.0 \times C$

* The value is for manifold base with 5 stations and individually operated 2-position type.

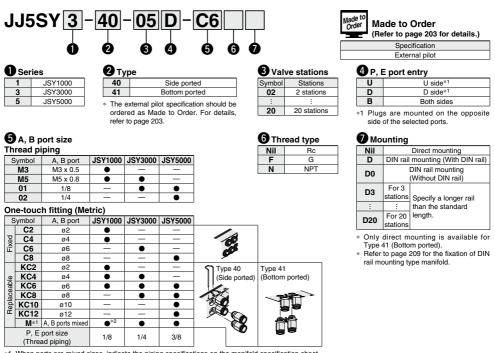
* Bottom port is available only for 4, 2 (A, B) port.



Non Plug-in Metal Base JSY1000/3000/5000 Series

Internal Pilot

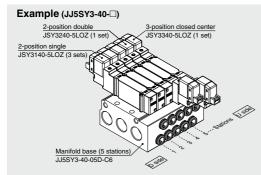
How to Order Manifolds



*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

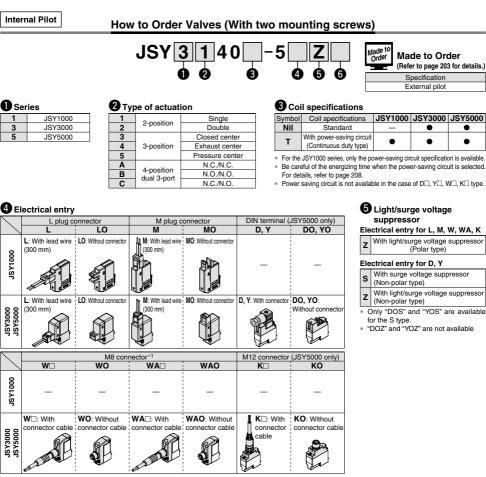


- JJ5SY3-40-05D-C6-1 set (Type 40 5-station manifold base part no.)
- --3 sets (2-position single part no.) * JSY3140-5I 07.
- * JSY3240-5LOZ1 set (2-position double part no.)
- JSY3340-5LOZ1 set (3-position closed center part no.)
 - The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.

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.

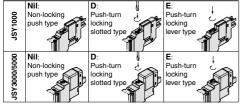


Non Plug-in Metal Base JSY1000/3000/5000 Series



- * Refer to page 206 for the lead wire length of L and M plug connectors.
- * The "WAO" and "WAO" M8 connectors are IEC 60947-5-2 standard compliant.
- Refer to page 208 for polarity details and the pin wiring diagram.
- * For connector cable of M8 connector, refer to page 207.
- * Enter the cable length symbols in . Please be sure to fill in the blank referring to page 207.
- For connector cable of M12 connector, refer to page 207.
- * "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 210.

6 Manual override

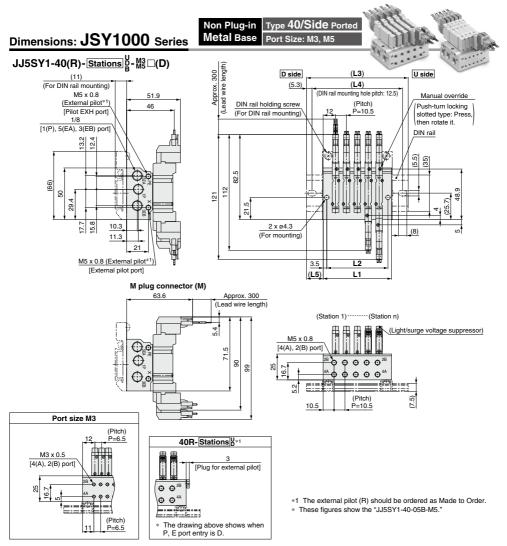


When ordering a valve individually, the base gasket is not included.

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance service. Refer to page 198 for base gasket and mounting screw part numbers.

≜Caution

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



L Dimensions: Port Size M5

																	otations		
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

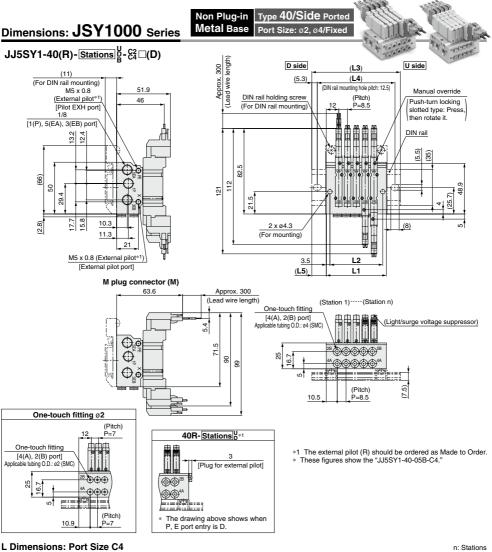
n: Stations

L Dimensions: Port Size M3

L Dime	ensior	ns: Po	ort Siz	e M3														n: \$	Stations
L_r	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
100																			

SMC

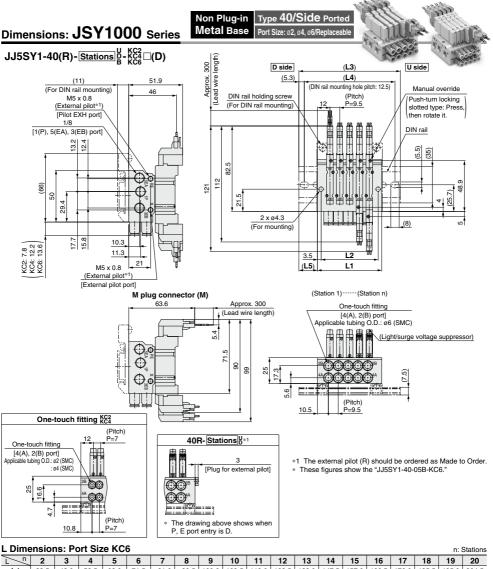
Non Plug-in Metal Base JSY1000/3000/5000 Series



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

L Dimensions: Port Size C2

L Dime	ensior	ns: Po	ort Siz	e C2														n: \$	Stations
/	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1																			
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



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

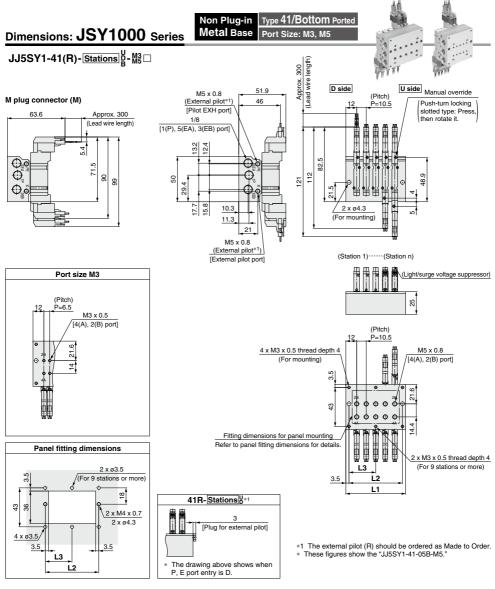
L Dimensions: Port Sizes KC2, KC4

Ľ _	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

SMC

n: Stations

Non Plug-in Metal Base JSY1000/3000/5000 Series

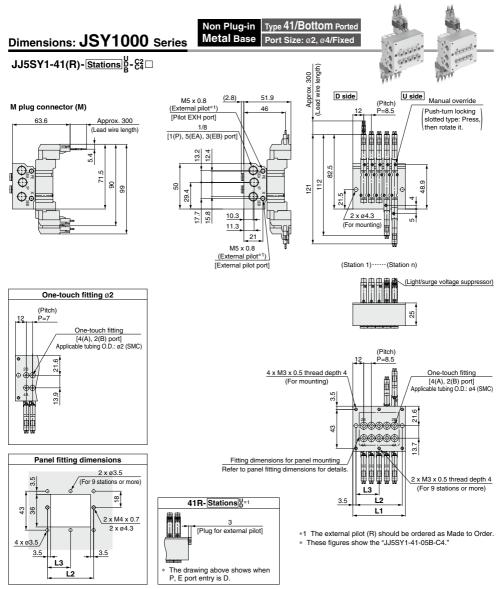


L Dime	ensior	ns: Po	ort Siz	e M5														n: \$	Stations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L2	27.5	38.0	48.5	59.0	69.5	80.0	90.5	101.0	111.5	122.0	132.5	143.0	153.5	164.0	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

L Dimensions: Port Size M3

																			Junions
L_r	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

n: Stations



L Dimensions: Port Size C4

L Dime	ensio	ns: Po	ort Siz	e C4														n: \$	Stations
~	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

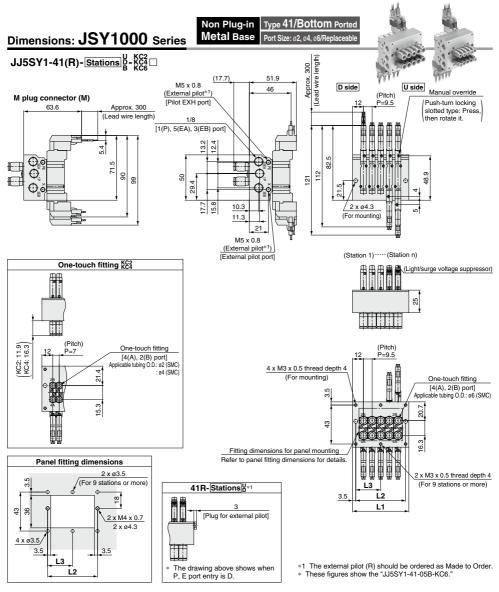
L Dimensions: Port Size C2

	5113101	13.1 0																	Jialions
~_ 	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

SMC

n: Stationa

Non Plug-in Metal Base JSY1000/3000/5000 Series



L Dimensions: Port Size KC6

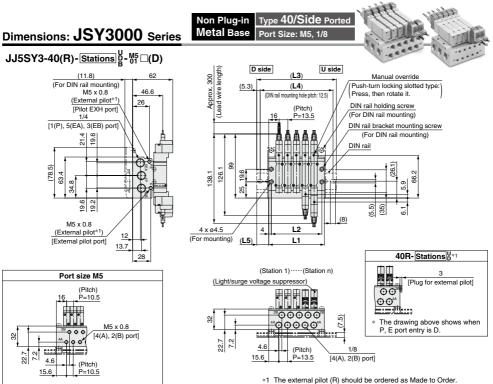
) L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	33.5	43.0	52.5	62.0	71.5	81.0	90.5	100.0	109.5	119.0	128.5	138.0	147.5	157.0	166.5	176.0	185.5	195.0	204.5
L2	26.5	36.0	45.5	55.0	64.5	74.0	83.5	93.0	102.5	112.0	121.5	131.0	140.5	150.0	159.5	169.0	178.5	188.0	197.5
L3	—	-	—	—	—	—	—	46.5	51.3	56.0	60.8	65.5	70.3	75.0	79.8	84.5	89.3	94.0	98.8

L Dimensions: Port Sizes KC2, KC4

E Dinite					<i>,</i>														Junions
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

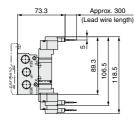
n. Stations

n: Stations

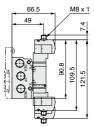


The external pilot (R) should be ordered as Made to 0
 These figures show the "JJ5SY3-40-05-01."

M plug connector (M)



M8 connector (W, WA)



n: Stations

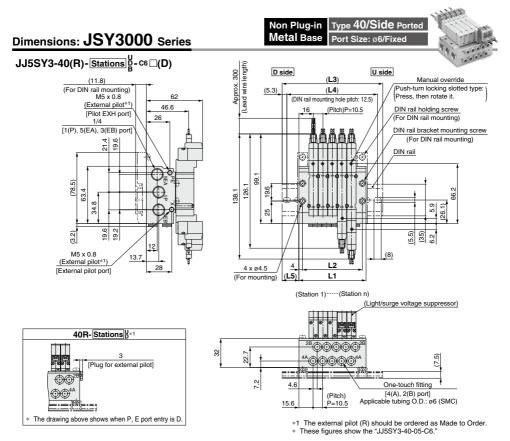
L Dime	ensior	ns: Po	ort Siz	e 01 ((1/8)													n: \$	Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	45.5	59.0	72.5	86.0	99.5	113.0	126.5	140.0	153.5	167.0	180.5	194.0	207.5	221.0	234.5	248.0	261.5	275.0	288.5
L2	37.5	51.0	64.5	78.0	91.5	105.0	118.5	132.0	145.5	159.0	172.5	186.0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

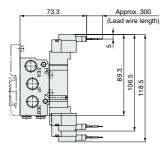
ľ_	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	73.0	85.5	98.0	110.5	123.0	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
-																			



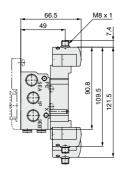
Non Plug-In Metal Base JSY1000/3000/5000 Series



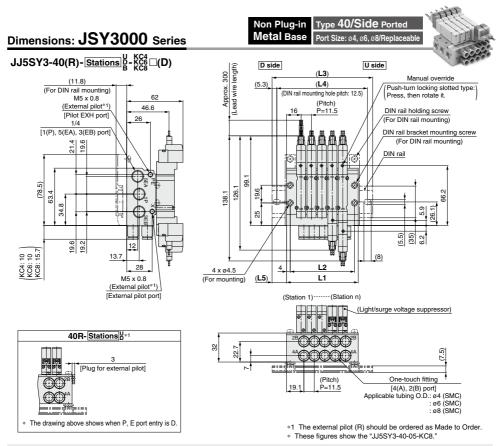
M plug connector (M)



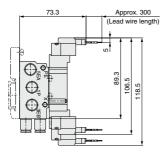
M8 connector (W, WA)



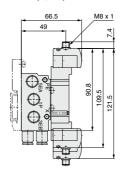
L Dime	ensioi	ns: Po	ort Siz	ze C6														n: \$	Stations
Ľ_	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0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



M plug connector (M)



M8 connector (W, WA)



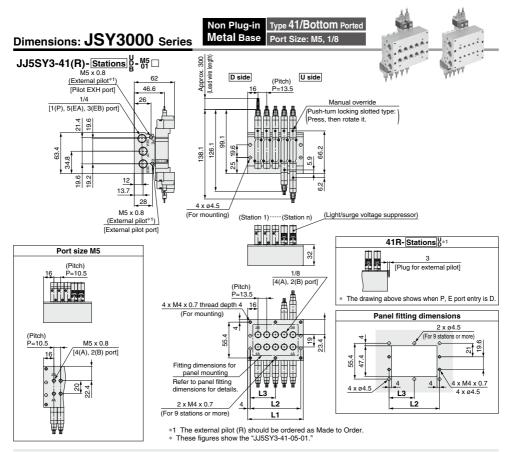
n: Stations

L Dimensions: Port Sizes KC4, KC6, KC8

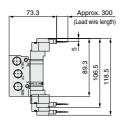
Ľ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	44.5	56.0	67.5	79.0	90.5	102.0	113.5	125.0	136.5	148.0	159.5	171.0	182.5	194.0	205.5	217.0	228.5	240.0	251.5
L2	36.5	48.0	59.5	71.0	82.5	94.0	105.5	117.0	128.5	140.0	151.5	163.0	174.5	186.0	197.5	209.0	220.5	232.0	243.5
L3	73.0	85.5	98.0	110.5	123.0	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

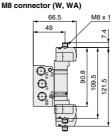


Non Plug-in Metal Base JSY1000/3000/5000 Series



M plug connector (M)





L Dimensions: Port Size 01 (1/8)

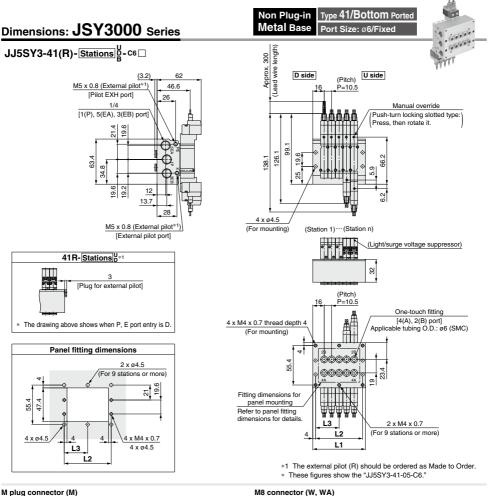
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	45.5	59.0	72.5	86.0	99.5	113.0	126.5	140.0	153.5	167.0	180.5	194.0	207.5	221.0	234.5	248.0	261.5	275.0	288.5
L2	37.5	51.0	64.5	78.0	91.5	105.0	118.5	132.0	145.5	159.0	172.5	186.0	199.5	213.0	226.5	240.0	253.5	267.0	280.5
L3	-	-	-	—	—	-	—	66.0	72.8	79.5	86.3	93.0	99.8	106.5	113.3	120.0	126.8	133.5	140.3

L Dimensions: Port Size M5

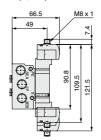
																			otations
L n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	213.0	223.5
L3	-	-	—	-	-	—	—	54.0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

n. Stations

n: Stations



M8 connector (W, WA)



n: Stationa

L Dimensions: Port Size C6

73.3

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Approx. 300

(Lead wire length)

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89.3

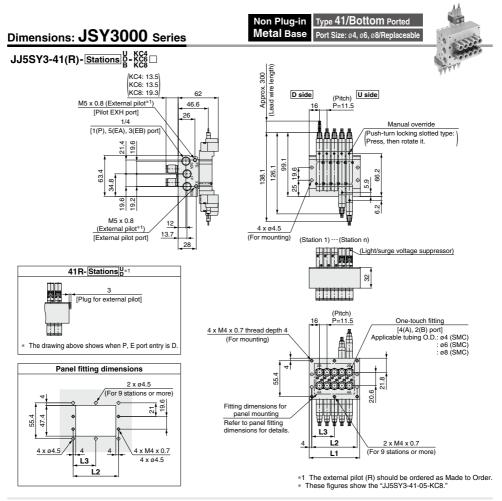
106.5

118.5

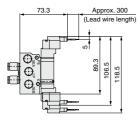
	chaioi	13. 1 0	11 012																Stations
L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	42.5	53.0	63.5	74.0	84.5	95.0	105.5	116.0	126.5	137.0	147.5	158.0	168.5	179.0	189.5	200.0	210.5	221.0	231.5
L2	34.5	45.0	55.5	66.0	76.5	87.0	97.5	108.0	118.5	129.0	139.5	150.0	160.5	171.0	181.5	192.0	202.5	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

SMC

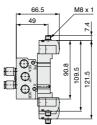
Non Plug-in Metal Base JSY1000/3000/5000 Series



M plug connector (M)

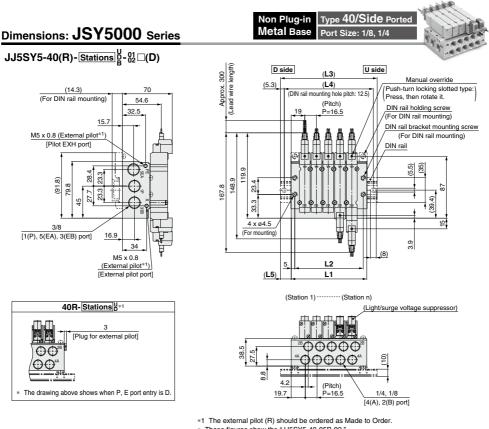


M8 connector (W, WA)

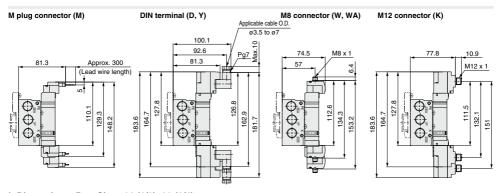


Dimensions: Port Sizes KC/L KC6 KC8

L Dime	ensior	ns: Po	ort Siz	es KO	C4, K0	C6, K(C8											n: \$	Stations
L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	43.5	55.0	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	170.0	181.5	193.0	204.5	216.0	227.5	239.0	250.5
L2	35.5	47.0	58.5	70.0	81.5	93.0	104.5	116.0	127.5	139.0	150.5	162.0	173.5	185.0	196.5	208.0	219.5	231.0	242.5
L3	—	-	—	—	—	-	—	58.0	63.8	69.5	75.3	81.0	86.8	92.5	98.3	104.0	109.8	115.5	121.3



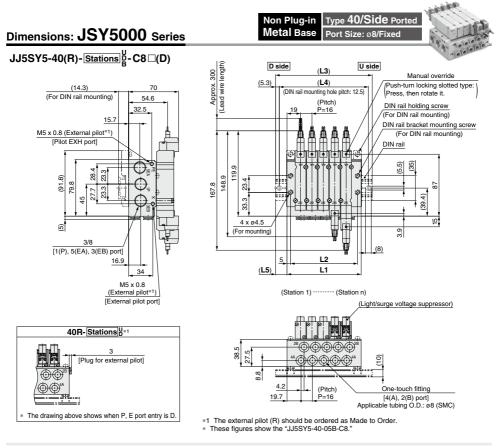
* These figures show the "JJ5SY5-40-05B-02."

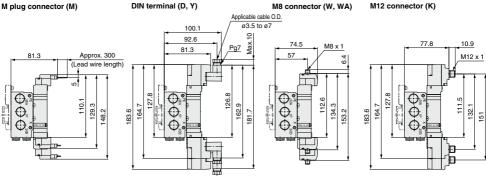


L Dir	nensio	ns: Po	ort Siz	es 01	(1/8)	, 02 (1	/4)											n: \$	Stations
~	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	56.5	73.0	89.5	106.0	122.5	139.0	155.5	172.0	188.5	205.0	221.5	238.0	254.5	271.0	287.5	304.0	320.5	337.0	353.5
L2	46.5	63.0	79.5	96.0	112.5	129.0	145.5	162.0	178.5	195.0	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

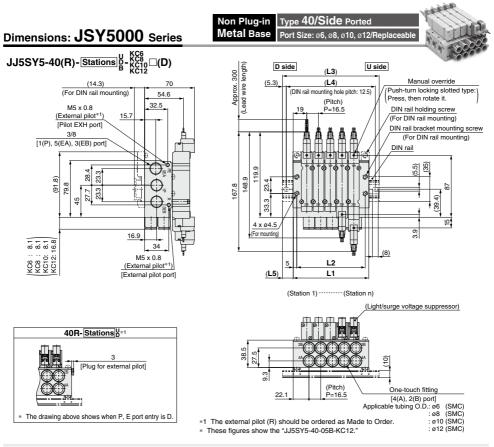


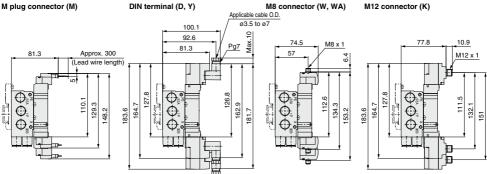
Non Plug-In Metal Base JSY1000/3000/5000 Series





L Dime	ensior	ns: Po	ort Siz	e C8														n: \$	Stations
/	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

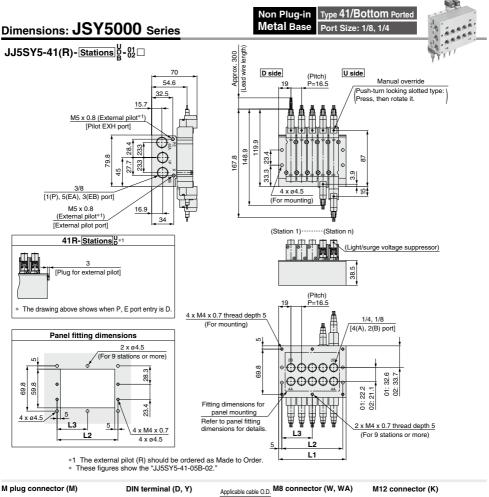


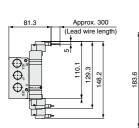


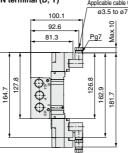
L Dime	ensior	ns: Po	ort Siz	es KO	C6, K0	C8, KO	C10, K	C12										n: \$	Stations
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	56.5	73.0	89.5	106.0	122.5	139.0	155.5	172.0	188.5	205.0	221.5	238.0	254.5	271.0	287.5	304.0	320.5	337.0	353.5
L2	46.5	63.0	79.5	96.0	112.5	129.0	145.5	162.0	178.5	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

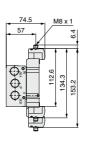


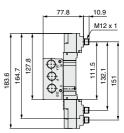
Non Plug-In Metal Base JSY1000/3000/5000 Series







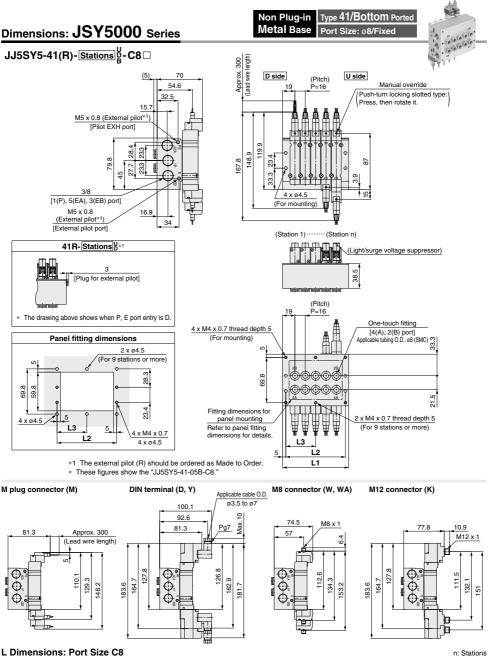




L Dimensions: Port Sizes 01 (1/8), 02 (1/4)

L_n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	54.5	71.0	87.5	104.0	120.5	137.0	153.5	170.0	186.5	203.0	219.5	236.0	252.5	269.0	285.5	302.0	318.5	335.0	351.5
L2	44.5	61.0	77.5	94.0	110.5	127.0	143.5	160.0	176.5	193.0	209.5	226.0	242.5	259.0	275.5	292.0	308.5	325.0	341.5
L3	—	-	—	—	—	—	—	80.0	88.3	96.5	104.8	113.0	121.3	129.5	137.8	146.0	154.3	162.5	170.8

n: Stations

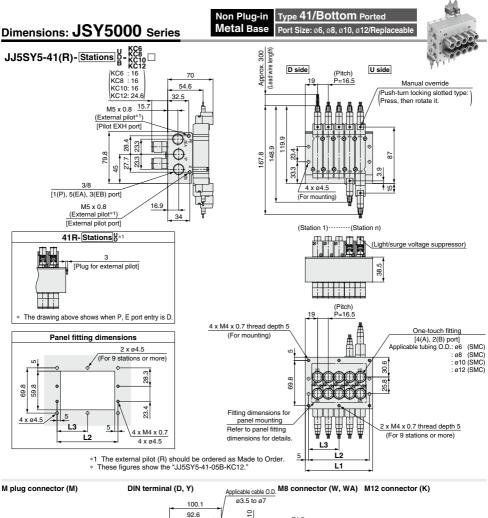


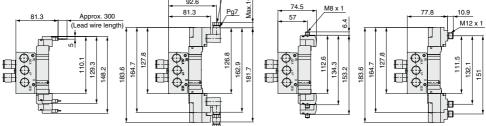
L Dimensions:	Port Size C8
---------------	--------------

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



Non Plug-In Metal Base JSY1000/3000/5000 Series

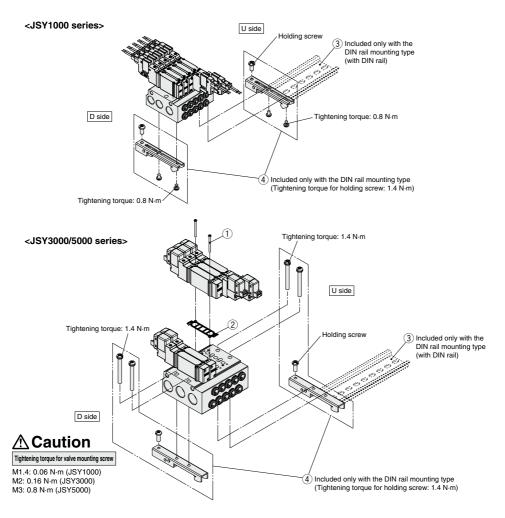




L Dime	L Dimensions: Port Sizes KC6, KC8, KC10, KC12 n: Station													Stations					
) L	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	54.5	71.0	87.5	104.0	120.5	137.0	153.5	170.0	186.5	203.0	219.5	236.0	252.5	269.0	285.5	302.0	318.5	335.0	351.5
L2	44.5	61.0	77.5	94.0	110.5	127.0	143.5	160.0	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



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



Manifold Parts Nos.

No.	Description		Part number	Note					
NO.	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 200.				
(4)	Clamp bracket	JSY11M-15-1A	JSY31M-15-1A	JSY51M-15-1A	Part numbers shown on the left are for one manifold. (2 sets of clamp brackets)				



One-touch Fittings, Clip, Port Plate, Tube Releasing Tool Refer to "How to Replace One-touch Fittings" on page 208 for the replacement method.

One-touch Fittings

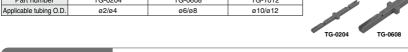
Port size	size JSY1000		JSY1000 JSY3000		Note
	ø2	KQSY10-C2	_	-	
	ø4	KQSY10-C4-X1336	KQSY30-C4	-	
A, B port	ø6	KQSY11-C6	KQSY30-C6	KQSY50-C6	Part number is for one piece.
A, B port	ø8	—	KQSY30-C8	KQSY50-C8	(Sales unit: 10 pcs.)
	ø10	—	_	KQSY50-C10	
	ø12	_	_	KQSY50-C12-X1336	

Clip, Port Plate

	JSY	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.)

	•	-	
Part number	TG-0204	TG-0608	TG-1012





.....

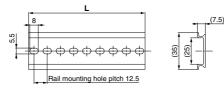
TG-1012

JSY1000/3000/5000 Series Manifold Options

DIN rail dimensions/weight for the JSY1000/3000 Non Plug-in metal base

VZ1000-11-1-

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

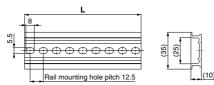


No.	S3	S2	S1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L dimension	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5	273	285.5
Weight [g]	10.9	13.1	15.4	17.6	19.9	22.1	24.4	26.6	28.9	31.1	33.4	35.6	37.9	40.1	42.4	44.6	46.9	49.1	51.4
No.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
L dimension	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5	523
Weight [g]	53.6	55.9	58.1	60.4	62.5	64.9	67.1	69.4	71.6	73.9	76.1	78.4	80.6	82.9	85.1	87.4	89.6	91.9	94.1
No.	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
L dimension	535.5	548	560.5	573	585.5	598	610.5	623	635.5	648	660.5	673	685.5	698	710.5	723	735.5	748	760.5
Weight [g]	96.4	98.6	100.9	103.1	105.4	107.6	109.9	112.1	114.4	116.6	118.9	121.1	123.4	125.6	127.9	130.1	132.4	134.6	136.9
No.	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
L dimension	773	785.5	798	810.5	823	835.5	848	860.5	873	885.5	898	910.5	923	935.5	948	960.5	973	985.5	
Weight [g]	139.1	141.4	143.6	145.9	148.1	150.4	152.6	154.9	157.1	159.4	161.6	163.9	166.1	168.4	170.6	172.9	175.1	177.4	

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

VZ1000-11-4-

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



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
	1				· · · · · · · · · · · · · · · · · · ·														
No.	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
No. L dimension	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	54 773	55 785.5
-				-	610.5														785.5
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
L dimension Weight [g]	560.5 141.8	573 145	585.5 148.1	598 151.3	610.5 154.5	623 157.6	635.5 160.8	648 163.9	660.5 167.1	673 170.3	685.5 173.4	698 176.6	710.5 179.8	723 182.9	735.5 186.1	748 189.2	760.5	773	785.5

Manifold Options JSY1000/3000/5000 Series

Refer to page 202 for dimensions.
 How to Order Blanking Plates

JSY 3 1M - 26 - 1A

1 JSY1000

JSY3000

JSY5000

Series

3

5

(A) (B) 4 2 1 1 T T T 5 1 3

(EA) (P) (EB) Circuit diagram

Caution Tightening torque for mounting screw

 Tightening torque for mounting screw

 M1.4: 0.06 N·m (JSY1000)

 M2: 0.16 N·m (JSY3000)

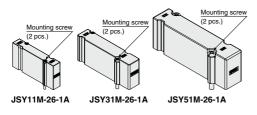
 M3: 0.8 N·m (JSY5000)

Manifold Options

Blanking plate

[With two mounting screws]

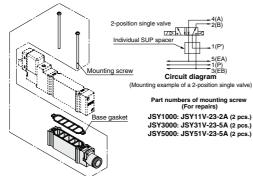
Used when valve additions are expected or for maintenance.



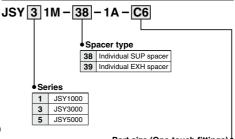
Individual SUP spacer

[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



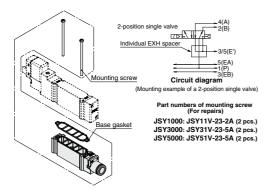
Port size (One-touch fittings)

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.



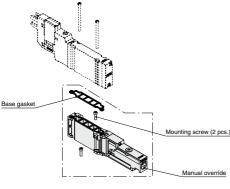
∧Caution

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

Manifold Options

SUP stop valve spacer with residual pressure release valve [With a base gasket and two mounting screws]

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



* Refer to page 202-1 for dimensions.

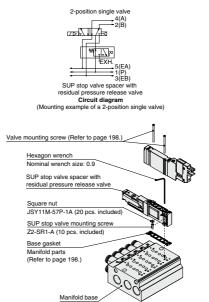
SUP stop valve spacer with residual pressure release valve * Only compatible when the JSY1000 series 4(A), 2(B) ports are port size M5 or KC6

JSY11M-50-1A

Manual	Push-turn locking
override	slotted type

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

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



[How to mount SUP stop valve spacer with residual pressure release valve] Mount the base gasket (manifold part) to the SUP stop valve manifold base side. Insert the SUP stop valve mounting screw into the spacer screw hole, and mount it to the manifold base

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

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

	Port	size	Flow rate characteristics					
Model	1, 5, 3	4, 2	1 → 4/2(P →	• A/B)	$4/2 \rightarrow 5/3(A/E)$	3 → E)		
	(P, EA, EB)	(A, B)	C [dm³/(s·bar)]	b	C [dm³/(s·bar)]	b		
JSY11M-50-1A	1/8	KC6	0.52	0.26	0.61	0.23		

Part numbers of mounting screw (For repairs) JSY1000: Z2-SR1-A (10 pcs.)

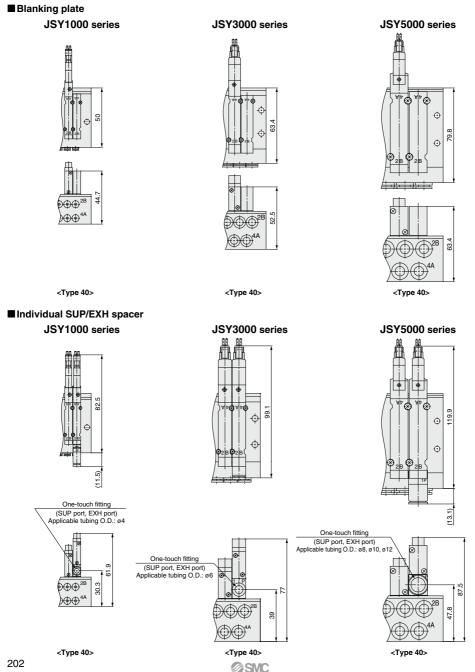
* Calculation of effective area S and sonic conductance C: S = 5.0 x C

The value is for manifold base with 5 stations and individually operated 2-position type.

* When the manifold is the metal base side ported type (type 40)

⊘SMC

Dimensions: Manifold Options

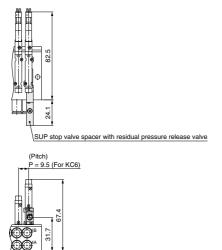


Manifold Options JSY1000/3000/5000 Series

Dimensions: Manifold Options

SUP stop valve spacer with residual pressure release valve

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

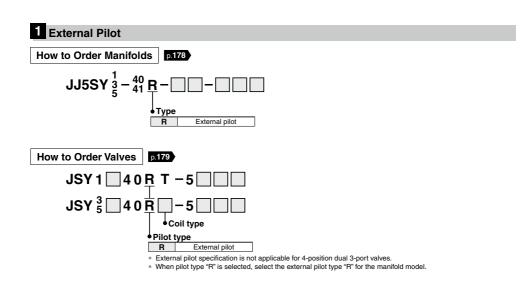


<Type 40>

⊘SMC

JSY1000/3000/5000 Series Made to Order

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





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

A Warning

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

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

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

Non-locking push type

Push down on the manual override button until it stops.

JSY1000 series

JSY3000/5000 series





Manual Override

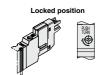
▲Warning

■Push-turn locking slotted type [D type]

Push down on the manual override with a small flat head screwdriver until it stops, and then turn it 90° clockwise. The manual override is then locked. To release it, turn it counterclockwise. If it is not turned, it can be operated the same way as the nonlocking push type.

JSY1000 series



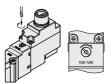


JSY3000/5000 series





JSY5000 series (DIN terminal, M12 connector type)









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

Manual Override

MWarning

■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

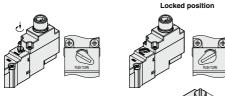
JSY3000/5000 series





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

JSY5000 series (DIN terminal, M12 connector type)



Carefully check the manual override projection amount. Max. (at OFF): 4 mm

Used as a 3-Port Valve

▲Caution

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

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

Plu	g position	B port	A port
Туре	of actuation	N.C.	N.O.
solenoids	Single	(A)4 2(B) ZZE-X-14 (F3) (EA)5 1 3(EB) (P)	(A)4 2(B) ZEINI / Ed (EA)5 1 3(EB) (P)
Number of solenoids	Double	(A)4 2(B) ZZEIN (FA)5 1 3(EB) (P)	(A)4 2(B) ZZEINI (TAU) (EA)5 1 3(EB) (P)

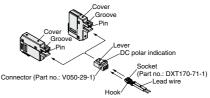
How to Use L/M Plug Connector

▲Caution

1. Attaching and detaching connectors

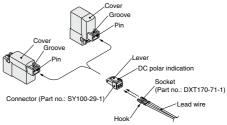
- To attach a connector, hold the lever and connector unit between your fingers and insert straight onto the pins of the solenoid valve so that the lever's pawl is pushed into the groove and locks.
- To detach a connector, remove the pawl from the groove by pushing the lever downward with your thumb,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

For JSY1000



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

For JSY3000/5000



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



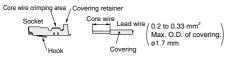


Be sure to read this before handling the products. For safety instructions and 3/4/5-port solenoid valve precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

How to Use L/M Plug Connector

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

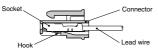
Insert the sockets into the square holes of the connector (\oplus, \ominus) indication), and continue to push the sockets all the way in until they lock by hooking into the seats in the connector.

(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.

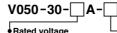


Plug Connector

<How to Order>

L/M Plug Connector

For JSY1000





	·······································					
Symbol	Rated voltage	Lead wire color				
4	DC	Red, Black				
Nil	ad wire*1					
*1 With connector and 2 of sockets only						

Lead wire length

S	ymbol	Lead wire length
	Nil	300 mm
	6	600 mm
	10	1000 mm
	20	2000 mm
	30	3000 mm
	50	5000 mm

For JSY3000/5000

SY100-30-

Rated voltage

-	iuioc	vonage	
S	ymbol	Rated voltage	Lead wire color
4		DC	Red, Black
Nil		Without le	ad wire*1
*1	With	connector and 2	of sockets only

Lead wire length

Symbol	Lead wire length
Nil	300 mm
6	600 mm
10	1000 mm
20	2000 mm
30	3000 mm
50	5000 mm

How to Order

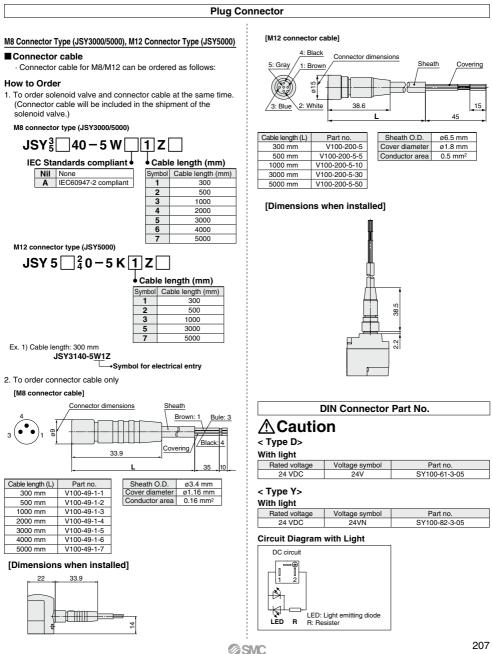
Specify the plug connector part number together with the part number for the plug connector type solenoid valve without connector.

<Example> Lead wire length 2000 mm

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



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





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

Surge Voltage Suppressor

▲ Caution

<For DC> L/M Plug Connector

Polar type (For JSY3000/5000) With light/surge voltage suppressor (Z) Polarity protection diode

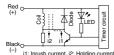
Bed(+) C Black(_) C

· Connect in accordance with the +, - polarity indication.

· When wiring is done at the factory, positive (+) is red and negative (-) is black.

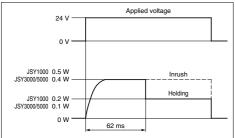
With power saving circuit

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



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

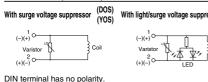
<Electrical power waveform with power saving circuit>



· Be careful not to reverse the polarity, since a diode to prevent the reversed current is not provided for the power saving circuit.

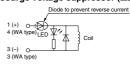
· Since the voltage will drop by approx. 0.5 V due to the transistor, pay attention to the allowable voltage fluctuation. (For details, refer to the solenoid specifications of each type of valve.)

DIN terminal (JSY5000)

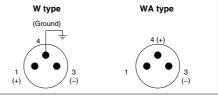


M8 Connector Type (JSY3000/5000)

Polar type With light/surge voltage suppressor (Z)



Solenoid valve side pin wiring diagram

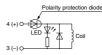


* The WA-type valve cannot be grounded.

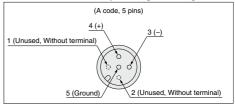
M12 Connector (JSY5000)

SMC

Polar type With light/surge voltage suppressor (Z)



Solenoid valve side pin arrangement diagram





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

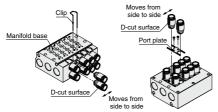
By replacing One-touch fittings of manifold base, it is possible to change the connection diameter of the 4(A), 2(B), 1(P), 3/5(E) ports. When replacing the One-touch fittings, remove the clip or the plate before pulling the One-touch fittings off. Mount the One-touch fittings by following the removal 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 199 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 <u>sideways</u>.

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

Metal base



- It is not possible to replace C2 or C4 fittings with C6 fittings for the JSY1000 series.
- Refer to page 199 for One-touch fitting, clip, and port plate part numbers.

One-touch Fittings

A Caution

Tube attachment/detachment for One-touch fittings

1) Tube attachment

 Take a tube having no flaws on its periphery and cut it off at a right angle. When cutting the tube, use tube cutters TK-1, 2 or 3. Do not use pliers, nippers or scissors, etc. If cutting is done with tools other than tube cutters, the tube may be cut diagonally or become flattened, etc.,

making a secure installation impossible, and causing problems such as the tube pulling out after installation or air leakage. Allow some extra length in the tube.

- 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

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

Series	Model	Piping	Port	Fitting					ıg O.I		
001100	model	port	port size		ø2	ø4	ø6	ø8	ø10	ø12	
		1P, 5EA	1/8	KQ2H							
		3EB	.,	KQ2S							
8		X, PE	M5	KQ2H							
õ	JJ5SY1-40/41(R)	A, FE	IVIO	KQ2S		0					
JSY1000	Manifold base		M5	KQ2H							
Ϋ́		4A, 2B	1015	KQ2S							
		4A, 2D	МЗ	KQ2H	0						
			IVIS	KQ2S	\bigcirc						
										_	
Series	Model	Piping	Port	Fitting		·			ig O.I	_	
		port	size		ø2	ø4	ø6	ø8	ø10	ø12	
			1P, 5EA	1/4	KQ2H						
		3EB		KQ2S			\subseteq		$ \rightarrow $		
000£XSf		X, PE 4A, 2B	M5 1/8 M5	KQ2H							
8	JJ5SY3-40/41(R)			KQ2S			\square				
Š	Manifold base			KQ2H			\square				
~				KQ2S			-	\square			
				KQ2H		-	\square				
				KQ2S		\square	$ \supset $				
		Piping	Port	r		onlic	abla	tubir	ig O.I		
Series	Model	port	size	Fitting	Ø2	ø4	ø6		ø10		
		1P, 5EA		KQ2H			Ċ	-	1	5	
		3EB	3/8	KQ2S					-		
0				KQ2H			5				
8	JJ5SY5-40/41(R)	X, PE	M5	KQ2S		U	5				
JSY5000	Manifold base			KQ2H							
SL			1/4	KQ2S					5		
-		4A, 2B	<u> </u>	KQ2H			-	5			
			1/8	KQ2S					5		
			L	1.0220							

Applicable Fittings: KQ2H, KQ2S, M Series



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

Other Tube Brands

≜Caution

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

1) Nylon tube	within ±0.1 mm
Soft nylon tube	within ±0.1 mm
3) Polyurethane tube	within +0.15 mm
	within -0.2 mm

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

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 16-20 stations, 4 locations for 11-15 stations, and 5 locations for 16-20 stations.
- 2. When using the manifold with DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may be broken. In particular, if the installation surface vibrates when mounting the manifold on the wall or if a load is directly applied to the manifold, the DIN rail may be broken, causing the manifold to drop. When any vibration, impact, or load is applied to the manifold, be sure to use the direct mounting manifold.

How to Use DIN Terminal

≜Caution

Connection

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

▲ Caution

When making connections, take note that using other than the supported size (03.5 to 07) heavy duty cord will not satisfy IP65 (enclosure) standards. Also, be sure to tighten the gland nut and holding screw within their specified torque ranges.

Changing the entry direction

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

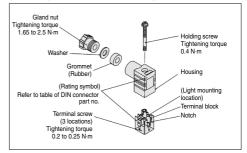
* Be careful not to damage the light with the cord's lead wires.

Precautions

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

Compatible cable

Cord O.D.: ø3.5 to ø7 (Reference) 0.5mm², 2-core or 3-core, equivalent to JIS C 3306



Type "Y"

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

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





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

M8 Connector

 M8 connector types have an IP65 (enclosure) rating, offering protection from dust and water. However please note: these products are not intended for use in water.

Select a SMC connector cable (V100-49-1-□) or a FA sensor type connector, with M8 threaded 3 pin specifications conforming to Nippon Electric Control Equipment Association Standard, NECA4202 (IEC60947-5-2). Make sure the connector O.D. is 10.5mm or less when used with the JSY3000 series manifold. If more than 10.5mm, it cannot be mounted due to the size.

- Do not use a tool to mount the connector, as this may cause damage. Only tighten by hand. (0.4 to 0.6 N·m)
- The excessive stress on the cable connector will not be able to satisfy the IP65 rating. Please use caution and do not apply a stress of 30 N or greater.

▲ Caution

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

Connector cable mounting



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

Installation

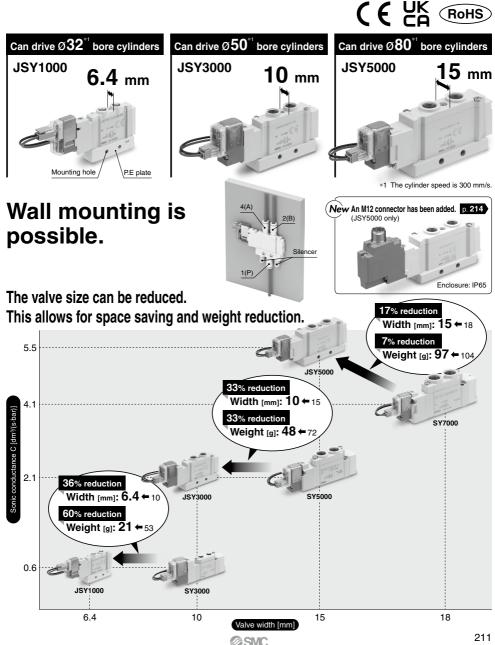
▲Caution

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

⊘SMC

Compact 5-Port Solenoid Valve JSY1000/3000/5000 Series

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



JSY1000/3000/5000 Series Valve Specifications

Valve Specifications

Valve type				Rubber seal		
Fluid				Air		
Internal pilot 2-position single		2-position single	0.15 to 0.7			
operating pressure range [MPa] 2-position double		2-position double	0.1 to 0.7			
Ambient and fluid temperatures [°C]			-10 to 50 (No freezing)			
Max. operating frequency	JSY1 JSY3		2-position single/double	5		
[Hz]	JSY5	5000	2-position single/double	5		
			Non-locking push type			
Manual override				Push-turn locking slotted type		
			Push-turn locking lever type			
Pilot exhaust type	lot exhaust type Internal pilot			Individual exhaust		
Lubrication			Not required			
Mounting orientation	*1			Unrestricted		
Impact/Vibration resistance*1 [m/s2]			150/30			
Enclosure				IP40: L plug connector (L), M plug connector (M)/IP65: DIN terminal (D) (Y), M12 connector (H		
Electrical entry				L plug connector (L), M plug connector (M), DIN terminal (D, Y), M12 connector (K)		
Coil rated voltage [V	וי			24 VDC		
Allowable voltage flu	ictuati	on	JSY1000	-7% to +10% of the rated voltage (24 VDC)		
Allowable voltage it	lotuati		JSY3000/5000	±10% of rated voltage		
		Standard	JSY3000/5000	0.4 (DIN terminal: 0.35 W [Without light], 0.45 [With light])		
Power consumption [W]	DC	C With power- JSY	ver- JSY1000	0.2*2 [Inrush: 0.5, Holding: 0.2]		
		circuit*4	JSY3000/5000	0.1*3 [Inrush: 0.4, Holding: 0.1]		
Surge voltage suppr	essor			Diode (Varistor for the DIN terminal type)		
Indicator light				LED		

*1 Impact resistance: No malfunction occurred when tested in the axial direction and at a right angle to the main valve and armature in both an energized and a de-energized state, once in each condition. (Value in the initial state) Vibration resistance: No malfunction occurred in a one-sween test between 45 and 2000 Hz. Test was performed at both an energized and a de-

Vibration resistance: No malfunction occurred in a one-sweep test between 45 and 2000 Hz. Test was performed at both an energized and a deenergized state in the axial direction and at a right angle to the main valve and armature. (Value in the initial state)

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

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

*4 For details, refer to page 208.

Response Time/Valve Weight

Body Ported

				Response time [ms] (at 0.5 MPa)*1 Standard	Valve weight [g]		
Series	Seal type	Model	Model Type of actuation	With light/surge voltage suppressor	L/M plug connector	DIN terminal	K M12 connector
				Z type	connector		WITZ CONNECTOR
JSY1000		JSY1120T	2-position single	15	21	_	
3311000		JSY1220T	2-position double	5	28		
JSY3000	Rubber seal	JSY3120	2-position single	27	48] —	_
3313000		JSY3220	2-position double	10	63]	
JSY5000		JSY5120	2-position single	42	97	125	119
3515000		JSY5220	2-position double	13	113	169	157

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

JSY1000/3000/5000 Series Type 20 Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

Single Unit Specifications



Model			Non plug-in, For mounting P.E plate
		JSY1000	M5 x 0.8
		JSY3000	1/16
Port size		JSY5000	1/8
Port size		JSY1000	M3 x 0.5, M5 x 0.8
		JSY3000	1/16
		JSY5000	1/8

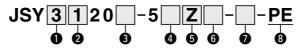
Flow Rate Characteristics

	Port size		Valve flow rate characteristics				
Model	1, 5, 3	4, 2	$1 \rightarrow 4/2 \; (P \rightarrow A/B)$		$4/2 \rightarrow 5/3 (A/B \rightarrow E)$		
	(P, EA, EB)	(A, B)	C [dm ³ /(s·bar)]	b	C [dm ³ /(s·bar)]	b	
JSY1000	M5	M5	0.6	0.48	0.6	0.39	
JSY3000	1/16	1/16	2.0	0.41	2.1	0.35	
JSY5000	1/8	1/8	5.5	0.38	5.4	0.36	

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

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

How to Order Valves



O s	Series
1	JSY1000
3	JSY3000
5	JSY5000

Type 20 Top Ported

2 Type of actuation

U	o oi uotuut	
1	2-position	Single
2	2-position	Double

3 Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000	JSY5000
Nil	Standard	—	•	•
т	With power-saving circuit (Continuous duty type)	•	•	•

* For the JSY1000 series, only the power-saving circuit specification is available. * Be careful of the energizing time when the power-saving circuit is selected.

For details, refer to page 208.

* Power saving circuit is not available in the case of DD, YD, KD type.

5 Light/surge voltage suppressor

Electrical entry for L, M, K

Ζ	With light/surge voltage suppressor (Polar type)

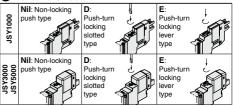
Electrical entry for D, Y

S	With surge voltage suppressor (Non-polar type)
7	With light/ourge voltage suppresser (Non polar type)

With light/surge voltage suppressor (Non Only "DOS" and "YOS" are available for the S type.

Only "DOS" and "YOS" are available for the
 DOZ and YOZ are not available.

6 Manual override



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

Symbol Thread piping		JSY1000	JSY3000	JSY5000
M3	M3 x 0.5	•	—	—
M5	M5 x 0.8	•	_	-
R1	Rc1/16	_	•	—
01	Rc1/8	—	_	•

8 With P.E plate

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

A Caution

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

Description	Part number	Port size Piping/Type	
One-touch fittings (Applicable tubing O.D.: Ø6)	KQ2S06-R1AS-X1517*1		
One-touch fittings (Applicable tubing O.D.: ø8)	KQSY-S08R1S*1	Rc1/16	
Silencer	INA-25-98		
 *1 The part number is for 1 piece. (Sales unit: 10 pcs.) *1 Tightening torque: 2 to 3 N·m (One-touch fitting) 			

4 Electrical entry

	L plug co	onnector	M plug connector		
\Box	L	LO	М	МО	
8	L: With lead wire (300 mm)	LO: Without connector	wire	MO: Without connector	
JSY1000			(300 mm)		
	L: With lead wire (300 mm)	LO: Without connector	M: With lead	MO: Without connector	
JSY5000	(300 mm)	Connector	(300 mm)		
	DIN terminal (JSY5000 only)	M12 connector	(JSY5000 only)	
\square	D, Y	DO, YO	K□	ко	
JSY1000 JSY3000	-	-	_	-	
	D, Y:	DO, YO:	K⊡:	KO: Without	
JSY5000	with connector	Without connector	With connector cable	connector cable	

Refer to page 206 for the lead wire length of L and M plug connectors
 "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 210.

- * For connector cable of M12 connector, refer to page 207.
- Refer to page 208 for polarity and pin arrangement examples.
- $\ast\,$ Enter the cable length symbols in $\Box.$ Please be sure to fill in the blank referring to page 207.

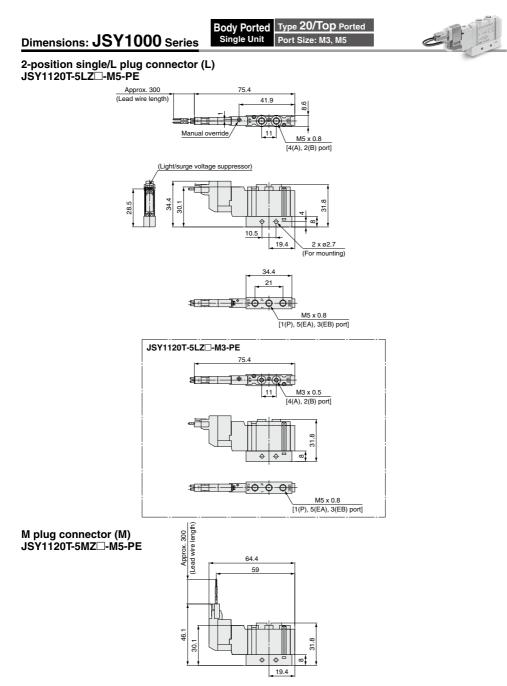
▲Caution

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

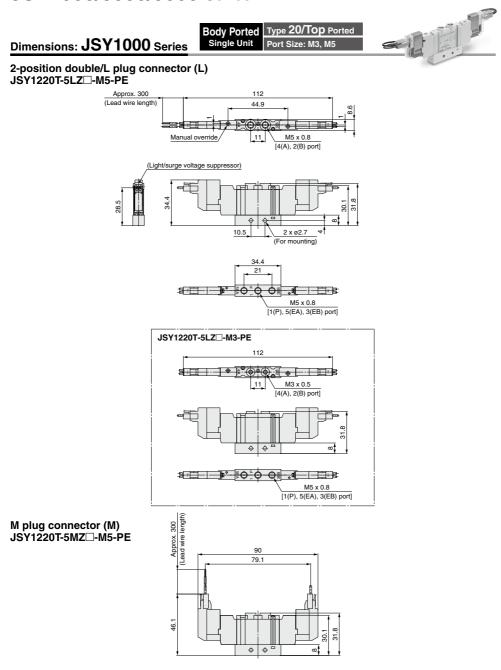


Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

^{ad} JSY1000/3000/5000 Series



SMC



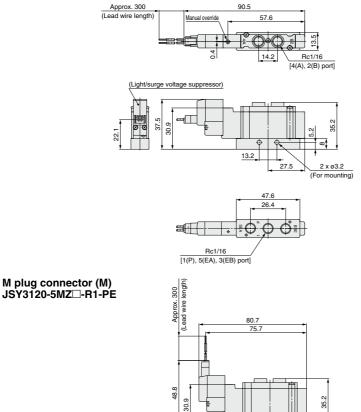
Non Plug-in Body Ported Single Unit (For Mounting P.E Plate)

JSY1000/3000/5000 Series



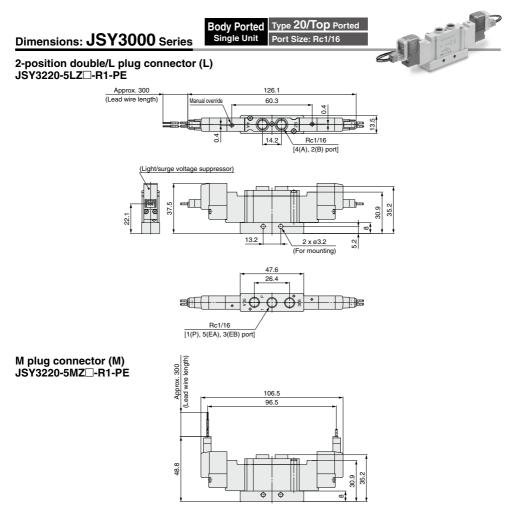
Body Ported Type 20/Top Ported Single Unit Port Size: Rc1/16

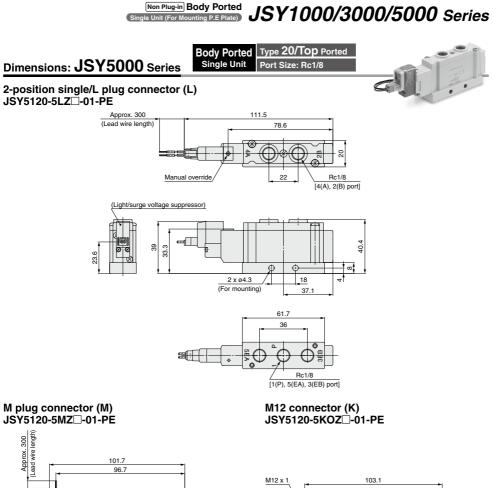


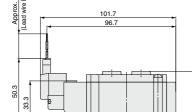


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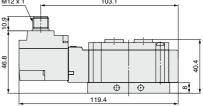
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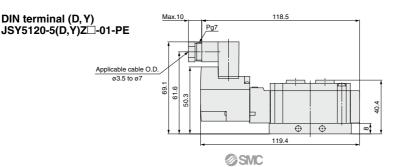






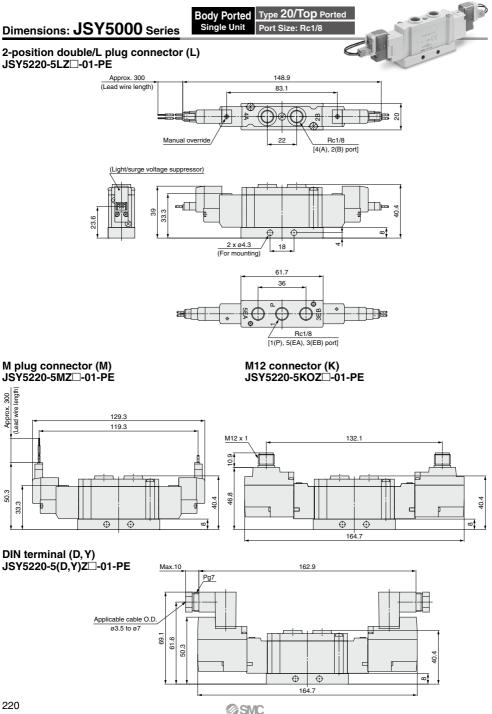
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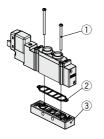


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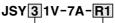


JSY1000/3000/5000 Series Non Plug-in Single Unit Parts Nos.



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

P.E Plate



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Series 1 JSY1000 3 JSY3000 5 JSY5000

O Thread piping JSY1000 JSY3000 JSY5000 M5 M5 x 0.8 - - - R1 Rc1/16 - - - 01 Rc1/8 - - ●