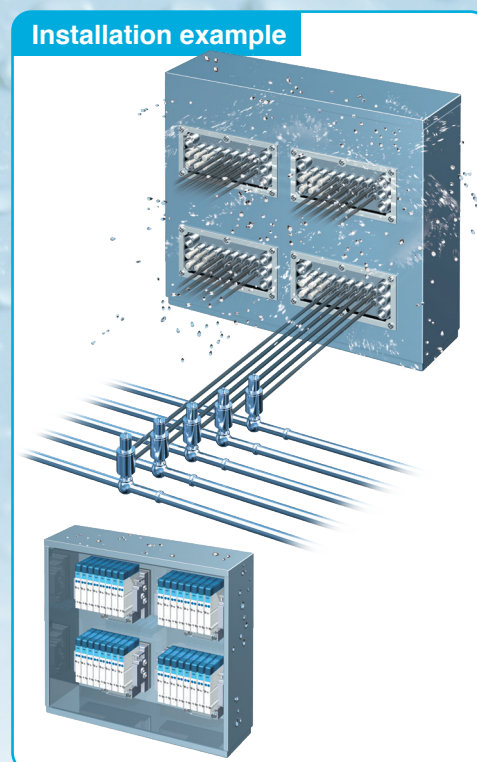
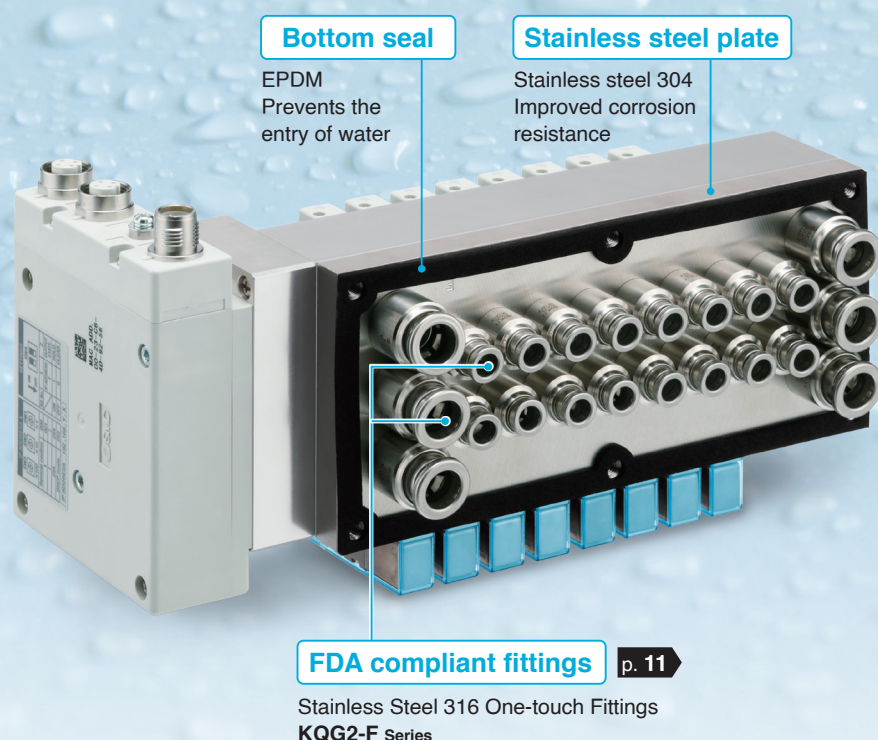
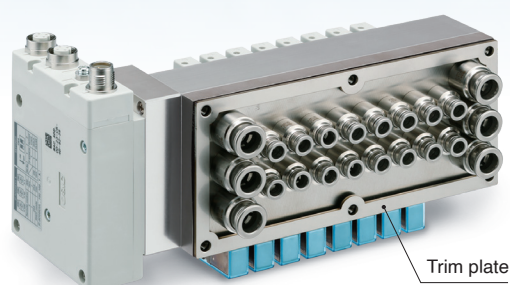


Plug-in Bottom Ported Manifold with Stainless Steel Plate

Bottom seal/stainless steel plate prevents the flooding of valves

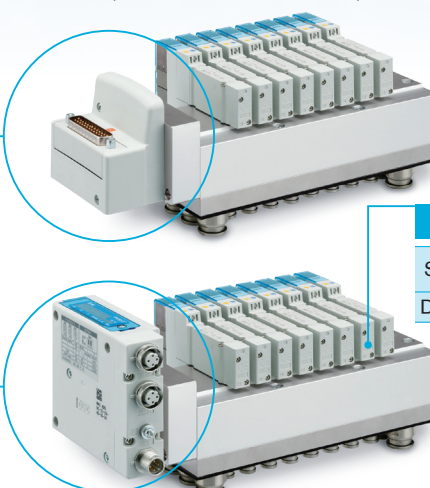


Trim plate (Option) p. 10



Wiring

D-sub connector/Flat ribbon cable/Terminal block box/Lead wire/
Serial unit (EX600, EX245, EX250, EX260)



Manifold

Single wiring	8, 12, 16, 20, 24 stations
Double wiring	8, 12, 16 stations

JSY3000-S Series

Compatible with **EtherNet/IP** and **IO-Link** (EX260)

P-EU22-6-UK

JSY3000-S Series Type 51

Plug-in Bottom Ported Manifold with Stainless Steel Plate

Manifold Specifications

Model	D-sub connector	Flat ribbon cable		Terminal block box	
	F type	P type	PG type (20 pins)	TC type (Spring type)	T type (Screw clamping type)
Number of pins/outputs	25 pins	26 pins	20 pins	32 outputs	20 outputs
Manifold type	Plug-in metal base, Bottom ported				
SUP/EXH port type	Common SUP/EXH				
Valve stations*1	Double wiring	8, 12 stations	8, 12 stations	8 stations	8, 12, 16 stations
	Single wiring	8, 12, 16, 20, 24 stations	8, 12, 16, 20, 24 stations	8, 12, 16 stations	8, 12, 16, 20, 24 stations
Port size	4(A), 2(B) port	1/8" (R, G, NPT)			
	1(P), 3(EB), 5(EA) port	1/4" (R, G, NPT)			
Enclosure (Bottom ported installation surface only)*2		IP67			

*1 The wiring can only be all double wiring or all single wiring. The number of manifold stations is limited by the number of outputs of the SI units and connector assemblies connected. For the single wiring specification, only single valves can be mounted. Double, 3-position, or 4 position valves cannot be used with the single wiring specification.

*2 The enclosure IP rating is for when the product's bottom surface is mounted on a cabinet or panel. Equipped with valves, the electric wiring side is IP40.

Manifold Flow Rate Characteristics

Model	Port size		Valve flow rate characteristics*3					
	1, 5, 3 (P, EA, EB)	4, 2 (A, B)	1 → 4/2 (P → A/B)			4/2 → 5/3 (A/B → E)		
			C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]	C [dm ³ /(s·bar)]	b	Q [l/min (ANR)]
JJ5SY3-S51	G1/4"	G1/8"	2.31	0.43	642	2.13	0.31	545

*3 The values are for an individually operated 2-position type manifold base with 8 stations.

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

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

Response Time/Valve Weight

Series	Seal type	Model	Type of actuation	Response time [ms] (At 0.5 MPa)*4		Weight [g]
				With light/surge voltage suppressor		
				Z type	U type	
JSY3000	Rubber seal	JSY3100	2-position single	27	18	54.0
		JSY3200	2-position double	13	12	63.0
		JSY3(3/4/5)00	3-position	27	24	67.0
		JSY3(A/B/C)00	4-position dual 3-port valve	23	23	63.0

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

Manifold Weight

Model	Description	Number of stations				
		8	12	16	20	24
JJ5SY3-S51S0-□□-01	Manifold base	1814	2359	2904	3444	4018
JJ5SY3-S51S0-□□-C6	Manifold base (With fitting)	2317	2955	3593	4226	4893
JSY31M-191P-1A-□□	Trim plate	38.0	48.1	58.3	68.4	75.5

* The "□□" indicates the number of stations.

* To obtain the weight with valves attached, add the valve weights given above for the appropriate number of stations.

* Add the weight of option "P" (trim plate) separately.

* The weights of connector assemblies and SI units are not included. Add the weights on the next page. For I/O units, refer to the JSY series **Web Catalogue** and add the weights separately.

Valve and manifold specifications not listed are the same as those of the standard product.

Lead wire				Serial wiring					None
L type				S6□ (EX600)	SA□ (EX245)	S□ (EX250)	S□ (EX260)		S0
34 cores	17 cores	9 cores		32 outputs	32 outputs	32 outputs	32 outputs	16 outputs	32 outputs
Plug-in metal base, Bottom ported									
Common SUP/EXH									
8, 12, 16 stations	8 stations	—		8, 12, 16 stations	8, 12, 16 stations	8, 12, 16 stations	8, 12, 16 stations	8 stations	8, 12, 16 stations
8, 12, 16, 20, 24 stations	8, 12, 16 stations	8 stations		8, 12, 16, 20, 24 stations	8, 12, 16, 20, 24 stations	8, 12, 16, 20, 24 stations	8, 12, 16, 20, 24 stations	8, 12, 16 stations	8, 12, 16, 20, 24 stations
1/8" (R, G, NPT)									
1/4" (R, G, NPT)									
IP67									

Connector Assembly and SI Unit Weight

Unit: g

Description	Model	Part no.	Weight
D-sub connector	F	VVQC1000-F25-1	80
Flat ribbon cable	P	VVQC1000-P26-1	70
	PG	VVQC1000-P20-1	70
Terminal block box	TC	SY30M-130-1A	227
	T	VVQC1000-T0-1	439
Lead wire	L (34 cores, 0.6 m)	SY30M-14-4A-1-1	176
	L (34 cores, 1.5 m)	SY30M-14-4A-1-2	276
	L (34 cores, 3 m)	SY30M-14-4A-1-3	579
	L (17 cores, 0.6 m)	SY30M-14-4A-2-1	133
	L (17 cores, 1.5 m)	SY30M-14-4A-2-2	192
	L (17 cores, 3 m)	SY30M-14-4A-2-3	327
	L (9 cores, 0.6 m)	SY30M-14-4A-3-1	121
	L (9 cores, 1.5 m)	SY30M-14-4A-3-2	164
Serial unit	S6□	EX600-S□-□*1	300
	SA□	EX245-SPN1/2A	465
		EX245-SPN3A	540
		EX245-FPS1/2	1100
		EX245-FPS3	1200
	S□	EX250-S□-□*1	250
	S□	EX260-S□-□*1	200

*1 For details, refer to the **Web Catalogue** of the plug-in JSY series.

Plug-in Bottom Ported Manifold with Stainless Steel Plate



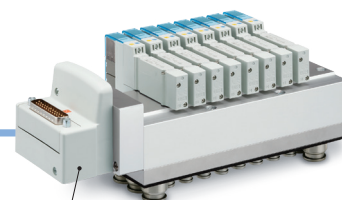
Type 51
Bottom Ported

JSY3000-S Series

D-sub connector/Flat ribbon cable/Terminal block box/Lead wire

Refer to page 5 for How to Order
Manifolds for serial wiring.

How to Order Manifolds



D-sub connector

Connector entry direction
adjustable D-sub connector
Connector entry direction
adjustable flat ribbon cable
(Spring type) Terminal block box

Lead wire

JJ5SY 3 - S 51 F - **08 B - C6 F P**

JJ5SY 3 - S 51 L1 1 - **08 B - C6 F P**

1 2 3 4 5 6 7 8 9 10 11

1 Series

3	JSY3000
---	---------

2 Manifold with stainless steel plate

3 Plug-in metal base, Bottom ported

4 Wiring/Connection

Symbol	Type
F	Connector entry direction adjustable D-sub connector (25 pins)
P	Connector entry direction adjustable flat ribbon cable (26 pins)
PG	Connector entry direction adjustable flat ribbon cable (20 pins)
TC	Spring type terminal block box (32 outputs)
T	Terminal block box (20 outputs)
L1	Lead wire (34 cores)
L2	Lead wire (17 cores)
L3	Lead wire (9 cores)

* Refer to the manifold specifications on pages 1 and 2 for details on wiring.

5 Lead wire length When lead wire "L1," "L2," or "L3" is selected

1	0.6 m
2	1.5 m
3	3 m

6 Wiring type

Symbol	Note
-	All double wiring*1
S	All single wiring*2, *3

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

*2 Only single valves can be used. Other valves cannot be used.

*3 Only the single wiring specification can be selected if 20 or 24 stations is required. (Add an "S" to the part number when ordering.)

7 Valve stations

Symbol	Stations	Note
08	8 stations	All double wiring*4
12	12 stations	
16	16 stations	
20	20 stations	All single wiring
24	24 stations	

*4 Depending on the wiring (type) and connection methods, it may be changed to the single wiring specification.

8 1(P), 5(EA)/3(EB) port entry

B	Both sides
---	------------

9 4(A)/2(B) port size One-touch fitting*5 p. 11

Symbol	4(A)/2(B) port	1(P)/3(EB), 5(EA) port
C6	Ø 6	Ø 10
C8	Ø 8	
N7	Ø 1/4"	Ø 3/8"

Thread piping

Symbol	4(A)/2(B) port	1(P)/3(EB), 5(EA) port
01	1/8	1/4

*5 Fittings are shipped together with the product. In addition, the thread of the enclosed fitting is a G thread. For details, refer to page 11.

10 Thread type (Fill in only for thread piping.)

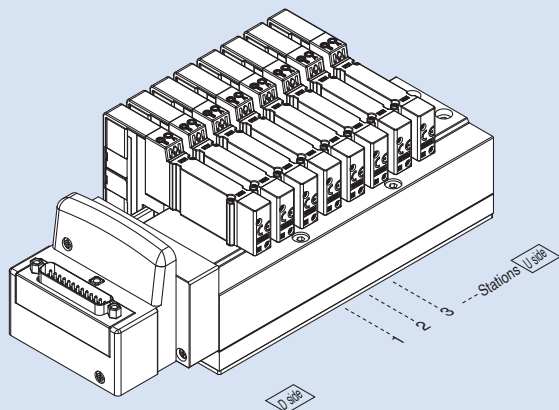
-	Rc
F	G
N	NPT

11 Option p. 10

-	None
P	Trim plate

How to Order Manifold Assembly

Example (JJ5SY3-S51F-08B-01)



JJ5SY3-S51F-08B-01 ... 1 set (8-station manifold base part no.)
 * JSY3200-5U 4 sets (2-position double part no.)
 * JSY3A00-5U 4 sets (4-position dual 3-port (N.C./N.C.) part no.)
 → The asterisk denotes the symbol for the assembly.
 Prefix it to the part numbers of the valve, etc.

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

How to Order Valves

Refer to pages 3, 5, and 6 for
How to Order Manifolds.

JSY 3 **1** 0 0 **5** **Z**

1 2 3 4

1 Type of actuation

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

2 Coil specifications

—	Standard
T	With power-saving circuit (Continuous duty type)

* Be careful of the energizing time when the power-saving circuit is selected.

3 Light/surge voltage suppressor

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

* Only "Z" and "NZ" types are available with a powersaving circuit.

* When the non-polar common specification type is selected, take measures to prevent surge voltage.

4 Manual override

—	Non-locking push type
D	Push-turn locking slotted type
E	Push-turn locking lever type

⚠ Caution

· If the product is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification.

* Refer to the "With power-saving circuit" section in the "Specific Product Precautions" of the plug-in type JSY series **Web Catalogue** for details.

Plug-in Bottom Ported Manifold with Stainless Steel Plate



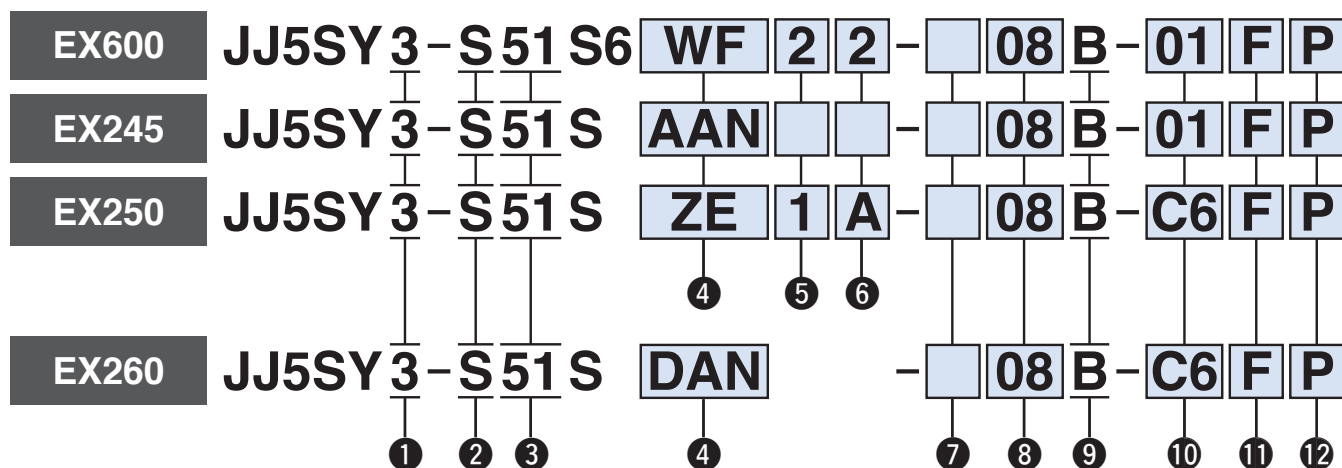
Type 51
Bottom Ported

JSY3000-S Series

Serial wiring

Refer to page 3 for How to Order Manifolds for the D-sub connector, flat ribbon cable, terminal block box, and lead wire.

How to Order Manifolds



1 Series

3	JSY3000
---	---------

2 Manifold with stainless steel plate

3 Plug-in metal base, Bottom ported

For EX600

4 SI unit

0	Without SI unit
Q	DeviceNet® (Version A)
N	PROFIBUS DP (Version A)
V	CC-Link
EA	EtherNet/IP™ (2 ports)
F	PROFINET
FA	PROFINET (IO-Link unit)
WE	EtherNet/IP™ compatible wireless base*1
WF	PROFINET compatible wireless base*1
WS	Wireless remote*1

- *1 The wireless system is suitable for use only in a country where it is in accordance with the Radio Act and regulations of that country.
- * I/O unit cannot be mounted without SI unit.
- * Valve plate which connects manifold and SI unit is included, but it is not mounted to a valve without SI unit. For mounting, refer to the EX600 series in the **Web Catalogue**.

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

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

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

6 I/O unit stations

—	None
1	1 station
:	:
9	9 stations

- * When not selecting an SI unit, the symbol will be “—.”
- * SI unit is not included in I/O unit stations.
- * When I/O unit is selected, it is shipped separately, and assembled by users. Refer to the attached operation manual for mounting.

For EX245

4 SI unit

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

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

5 With or without I/O modules

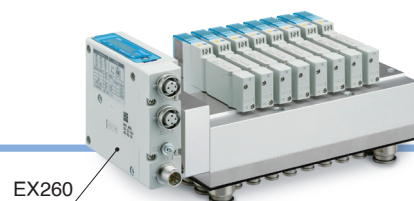
—	Without I/O module
Y	With I/O module

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

6 Number of I/O modules

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

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



For EX250

4 SI unit

0	Without SI unit		
Q	DeviceNet® (Negative common)		
N	PROFIBUS DP (Negative common)		
TA	AS-Interface (Negative common)	2 power supply systems	8 in/8 out
TB			4 in/4 out
TC		1 power supply system	8 in/8 out
TD			4 in/4 out
Y	CANopen (Negative common)		
ZE	EtherNet/IP™ (Negative common)		

- * Ensure a match with the common specification of the valve to be used.
- * Input block cannot be mounted without SI unit.
- * The supply current from the SI unit of AS-Interface applicable 1 power supply system specification to the input block and valve is limited.

5 Input block stations

—	None
1	1 station
⋮	⋮
8	8 stations

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

6 Input block type

	PNP sensor input	NPN sensor input
Without input block	—	
M12, 2 inputs	A	D
M12, 4 inputs	B	E
M8, 4 inputs	C	F

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

For EX260

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

Symbol (Output polarity)		Protocol	Number of outputs	Communication connector	Symbol (Output polarity)		Protocol	Number of outputs	Communication connector
Positive common (NPN)	Negative common (PNP)				Positive common (NPN)	Negative common (PNP)			
0*1		Without SI unit			DA	DAN	EtherCAT	32	M12
QA	QAN	DeviceNet®	32	M12	DB	DBN		16	
QB	QBN		PROFIBUS DP		16	D-sub*3	FA	FAN	32
NA	NAN	32		FB	FBN		16		
NB	NBN	16		EA	EAN		32	M12	
NC	NCN	32		EB	EBN		16		
ND	NDN	CC-Link	16	M12	—*2	GAN	Ethernet POWERLINK	32	M12
VA	VAN		32		—*2	GBN	16		
VB	VBN		16		—*2	KAN	IO-Link	32*4	M12

- *1 Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common specification of the valves to be used.
- *2 Positive common (NPN) type is not available.
- *3 IP40 for the D-sub applicable communication connector specification.
- *4 Only the 32 outputs type is available.
- * DIN rail cannot be mounted without SI unit.

7 Wiring type

Symbol	Note
—	All double wiring*1
S	All single wiring*2, *3

- *1 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations.
- *2 Only single valves can be used. Other valves cannot be used.
- *3 Only the single wiring specification can be selected if 20 or 24 stations is required. (Add an “S” to the part number when ordering.)

8 Valve stations

Symbol	Stations	Note
08	8 stations	All double wiring*1
12	12 stations	
16	16 stations	
20	20 stations	All single wiring
24	24 stations	

- *1 Depending on the wiring (type) and connection methods, it may be changed to the single wiring specification.

9 1(P), 5(EA)/3(EB) port entry

B	Both sides
---	------------

12 Option p. 10

—	None
P	Trim plate

10 4(A)/2(B) port size

One-touch fitting*1 p. 11

Symbol	4(A)/2(B) port	1(P)/3(EB), 5(EA) port
C6	Ø 6	Ø 10
C8	Ø 8	
N7	Ø 1/4"	Ø 3/8"

Thread piping

Symbol	4(A)/2(B) port	1(P)/3(EB), 5(EA) port
01	1/8	1/4

- *1 Fittings are shipped together with the product. In addition, the thread of the enclosed fitting is a G thread. For details, refer to page 11.

Trademark

EtherNet/IP® is a registered trademark of ODVA, Inc.

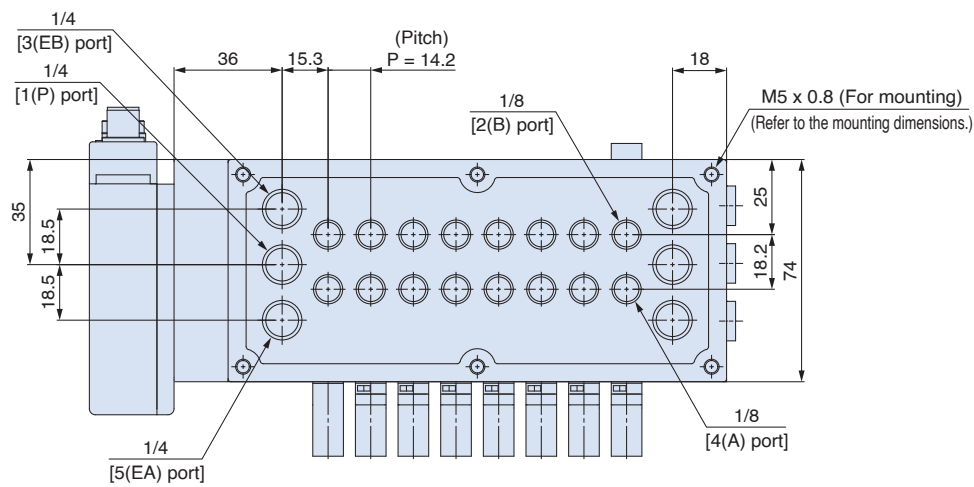
11 Thread type (Fill in only for thread piping.)

—	Rc
F	G
N	NPT

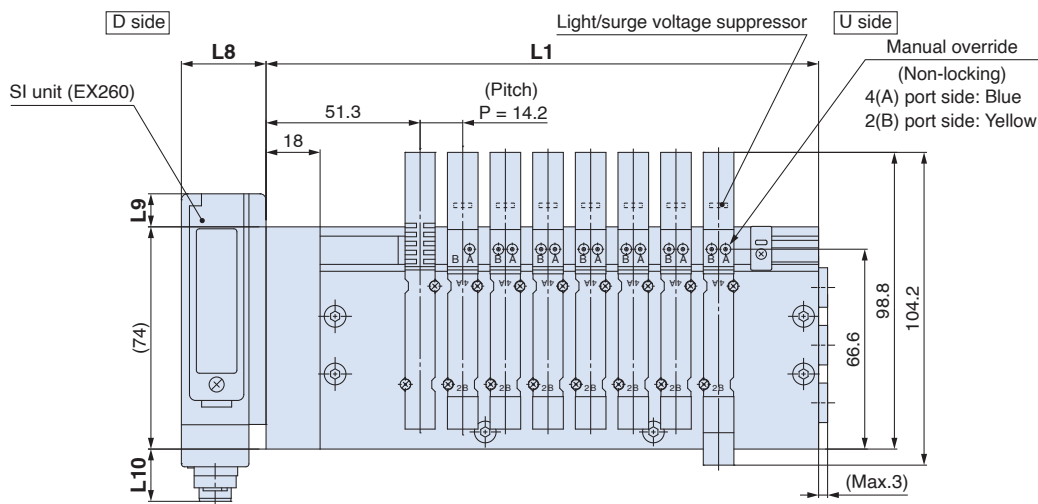
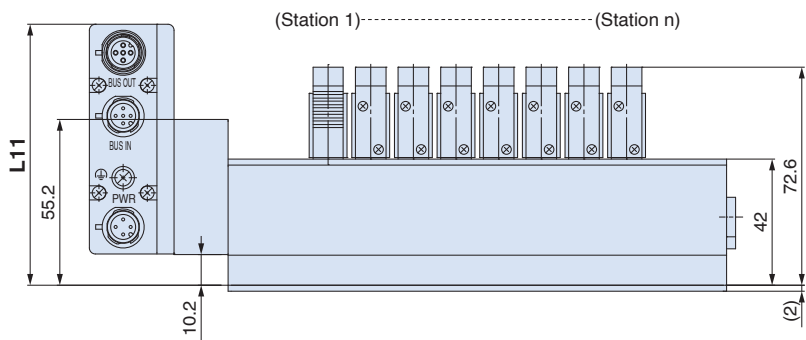
JSY3000-S Series

Dimensions

JJ5SY3-S51□□- [Stations] B-01□



* These figures show the JJ5SY3-51SFAN-08B-01.



L: Dimensions (Manifold model: JJ5SY1-S51S0-□□-01)

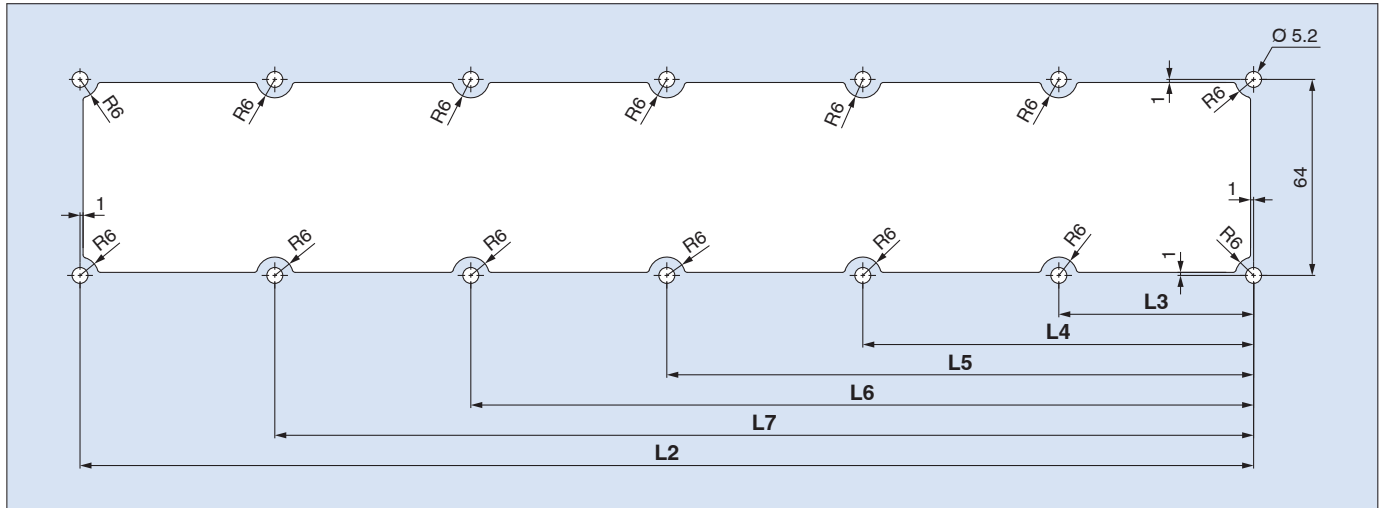
	D-sub	Flat ribbon	Terminal block		Lead wire	Serial			
	F	P	TC	T	L	EX600	EX245	EX250	EX260
L8	36.5	36.5	67.5	88.8	36.5	81.0	112.6	102.0	28.2
L9	1.0	1.0	28.4	35.9	-1.4	23.4	23.4	4.0	11.0
L10	-8.2	-8.2	0.2	15.1	11.8	8.6	34.8	10.2	17.4
L11	70.2	70.2	81.2	87.9	66.8	66.8	102.2	70.2	86.9

□□: Number of stations

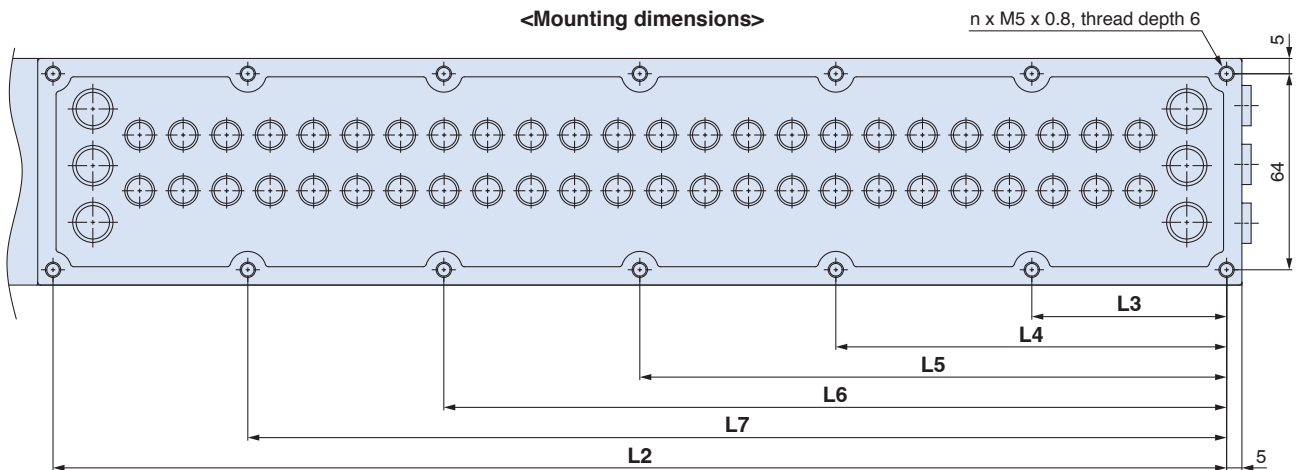
Dimensions

JJ5SY3-S51□□- [Stations] B-01□

Panel cutout dimensions



<Mounting dimensions>



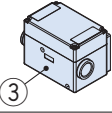
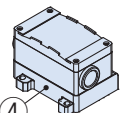
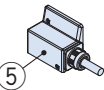
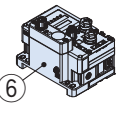
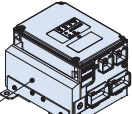
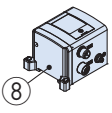
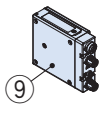


L: Dimensions (Manifold model: JJ5SY1-S51S0-□□-01)

Stations	8	12	16	20	24
L1	184.0	240.8	297.6	354.4	411.2
L2	156.0	212.8	269.6	326.4	383.2
L3	78.0	71.0	67.4	65.7	63.6
L4	—	141.8	134.8	130.7	127.6
L5	—	—	202.2	195.7	191.6
L6	—	—	—	260.7	255.6
L7	—	—	—	—	319.6

□□: Number of stations

JSY3000-S Series Manifold Exploded View

Connector assembly and SI unit			Manifold assembly	
D-sub connector	F type			
Flat ribbon cable	P/PG type			
Terminal block box	TC type			
	T type			
Lead wire	L type			
Serial unit	EX600			
	EX245			
	EX250			
	EX260			

Assembly and Part Nos.

No.	Description	Part no.	Note
1	D-sub connector	VVQC1000-F25-1	25 pins
2	Flat ribbon cable	VVQC1000-P26-1	26 pins
		VVQC1000-P20-1	20 pins
3	Terminal block box	SY30M-130-1A	32 outputs, Spring type
4		VVQC1000-T0-1	20 outputs, Screw clamping type
5	Lead wire	SY30M-14-4A-1-1	34 cores, 0.6 m
		SY30M-14-4A-1-2	34 cores, 1.5 m
		SY30M-14-4A-1-3	34 cores, 3 m
		SY30M-14-4A-2-1	17 cores, 0.6 m
		SY30M-14-4A-2-2	17 cores, 1.5 m
		SY30M-14-4A-2-3	17 cores, 3 m
		SY30M-14-4A-3-1	9 cores, 0.6 m
		SY30M-14-4A-3-2	9 cores, 1.5 m
		SY30M-14-4A-3-3	9 cores, 3 m

No.	Description	Part no.	Note
6	Serial unit	EX600-S□-□*1	
		EX245-SPN1/2A	
		EX245-SPN3A	
		EX245-FPS1/2	
		EX245-FPS3	
		EX250-S□-□*1	
8		EX260-S□-□*1	
9			
10	Bottom seal	JSY31M-90P-1A-□	□: Number of stations
11	Trim plate	JSY31M-191P-1A-□	□: Number of stations

*1 For details, refer to the **Web Catalogue** of the plug-in JSY series.

JSY3000-S Series Options

Option/Replacement Part Nos.

Trim Plate

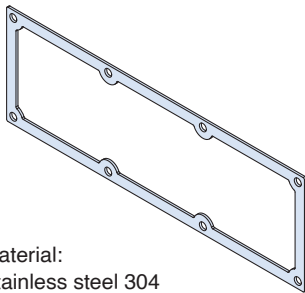
- A decorative panel to make the appearance look clean when used with a roughly cut cabinet
- If the wall of the cabinet is thin and the gasket seals are not uniform, it can be attached to stabilise the gasket seating force.

JSY31M-191P-1A-8

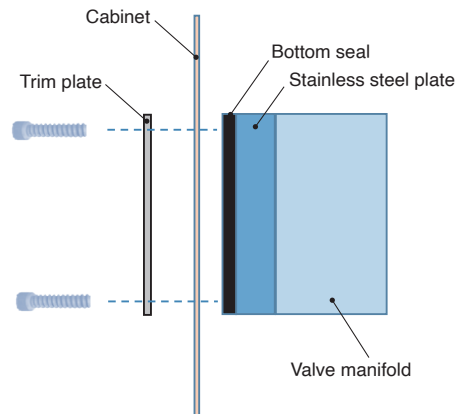
Stations

Symbol	Stations
8	8
12	12
16	16
20	20
24	24

Material:
Stainless steel 304



Mounting example



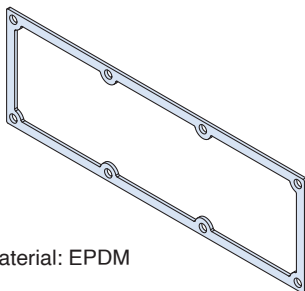
Bottom Seal

JSY31M-90P-1A-8

Stations

Symbol	Stations
8	8
12	12
16	16
20	20
24	24

Material: EPDM



Blanking Plate

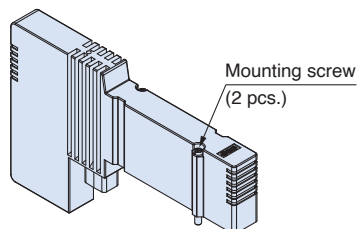
[With 2 mounting screws]

Used when valve additions are expected or for maintenance

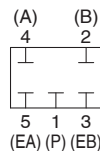
JSY 3 1M-26P-2A

Series

3	JSY3000
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JSY31M-26P-2A



Circuit diagram

⚠ Caution

Tightening torque for mounting screws
M2: 0.16 N·m (JSY3000)

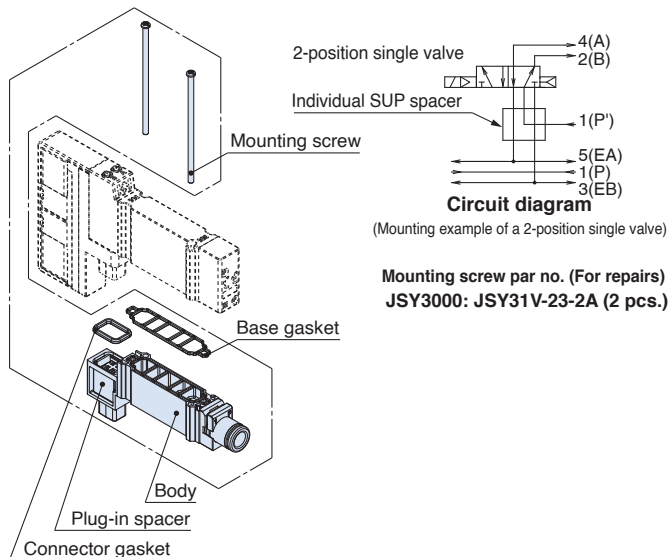
JSY3000-S Series

Option/Replacement Part Nos.

Individual SUP Spacer

[With a connector gasket, a base gasket, and two mounting screws]

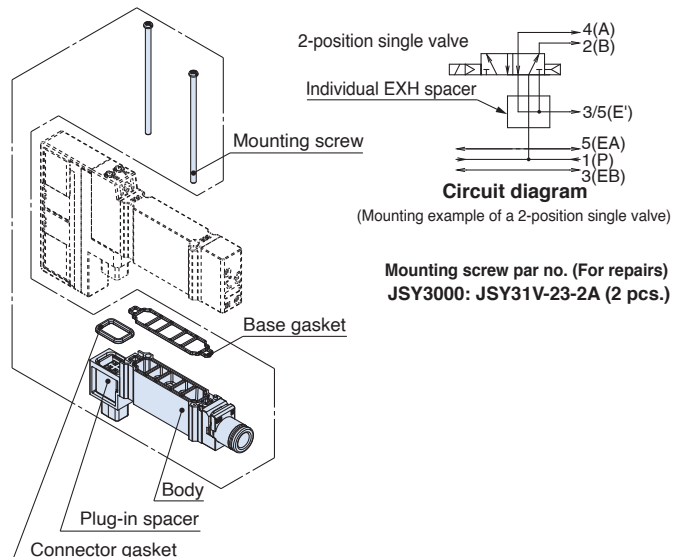
When the same manifold is to be used for different pressures, an individual SUP spacer assembly can be used to act as a supply port for different pressures.



Individual EXH spacer

[With a connector gasket, a base gasket, and two mounting screws]

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



JSY 3 1M-38 P-1A-C6

Series	3 JSY3000	Spacer type	38 Individual SUP spacer	Port size (One-touch fitting)	Symbol	P, E port	JSY3000
				C6	Ø 6 One-touch fitting		●

Caution

Tightening torque for mounting screw
M2: 0.16 N·m (JSY3000)

JSY 3 1M-39 P-1A-C6

Series	3 JSY3000	Spacer type	39 Individual EXH spacer	Port size (One-touch fitting)	Symbol	P, E port	JSY3000
				C6	Ø 6 One-touch fitting		●

Caution

Tightening torque for mounting screw
M2: 0.16 N·m (JSY3000)

FDA Compliant Fittings/Stainless Steel 316 One-touch Fittings

Symbol	Fitting part no.	
	4(A), 2(B) port	1(P), 3(EB), 5(EA) port
C6	KQG2S06-G01-F	KQG2S10-G02-F
C8	KQG2S08-G01-F	
N7	KQG2S07-G01-F-X73	KQG2S11-G02-F-X73

Tighten fittings with sealant using the proper tightening torques in the table below.

Connection thread size	Proper tightening torque [N·m]
G01(G1/8)	3 to 5
G02(G1/4)	8 to 12

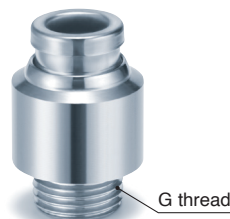
Insufficient tightening may cause seal failure or loosen the threads.

For reuse

(1) Normally, fittings with a sealant can be reused up to 6 to 10 times.

(2) The seal ring cannot be replaced.

For other precautions, refer to the specific product precautions in the **Web Catalogue** of the KQG2-F series.



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

- 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.
etc.

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 catalogue information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

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

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

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

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

4. 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 catalogue.
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 catalogue for the particular products.
- 2) Vacuum pads are excluded from this 1 year warranty.
A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited 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.

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

Plug-in Bottom Ported Manifold with Stainless Steel Plate

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