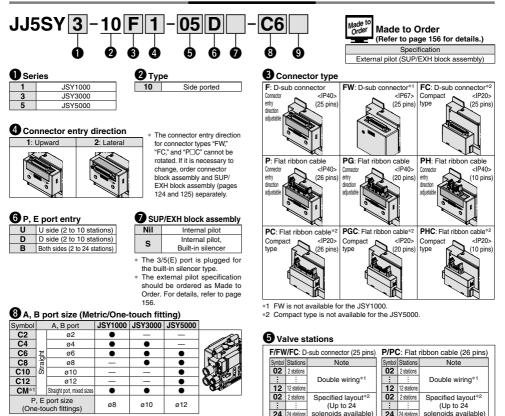
D-sub Connector Flat Ribbon Cable



JSY1000/3000/5000 Series (€ ⊣K ®

Internal Pilot

How to Order Manifolds



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

 The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

9 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)			
		mounting (Without DIN rail)		
3	For 3 stations	Specify a length longer		
:	:	than that of the standard		
24	For 24 stations	rail.		

Enter the number of stations inside \Box when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown on the left.)

- Refer to page 160 for details on securing the DIN rail mounting type manifold.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)

PH/PHC: Flat ribbon cable (10 pins)

Symbol Stations

02 2 stations

04 4 stations

02 2 stations

08 8 stations

*1 Double wiring: 2-position single, double, 3-position, and 4-position

The use of a 2-position single solenoid will result in an unused

control signal. If this is not desired, order with a specified layout.

Note

Double wiring*1

Specified layout*2

(Up to 8

solenoids available)

* This also includes the number of blanking plates.

PG/PGC: Flat ribbon cable (20 pins)

18 18 stations solenoids available)

Note

Double wiring*1

Specified layout*2

(Up to 18

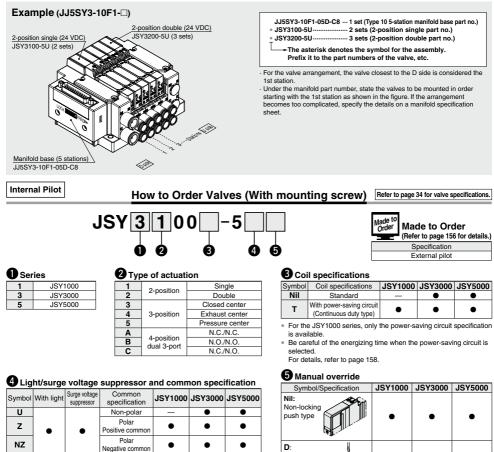
valves can be used on all manifold stations.

Symbol Stations

02 2 stations

09 9 stations

02 2 stations



* When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 159.

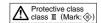
* Only "Z" and "NZ" types are available with a power saving circuit

▲ Caution

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

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.



Nil: Non-locking push type	•	•	•
D: Push-turn locking slotted type	•	•	•
E: Push-turn locking lever type	_	•	•
* Push-turn locking lever type	e "E" is not av	ailable for the	e JSY1000.

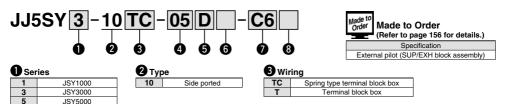


JSY1000/3000/5000 Series C € └└K RoHS

Spring Type Terminal Block Box Terminal Block Box

Internal Pilot

How to Order Manifolds



4 Valve stations

TC:	TC: Spring type terminal block box			ermina	l block box
Symbol	Stations	Note	Symbol	Stations	Note
02	2 stations		02	2 stations	
:	:	Double wiring*1	:	:	Double wiring*1
16	16 stations		10	10 stations	
02	2 stations	Specified layout*2	02	2 stations	Specified layout*2
:	:	(Up to 32 solenoids	:	:	(Up to 20 solenoids
24	24 stations	available)	20	20 stations	available)

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- *3 This also includes the number of blanking plates.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	_	(A)
C4		ø4	•	•	_	
C6	토	ø6	•	•	•	
C8	raight	ø8	—	•	•	
C10	t,	ø10	—	—	•	O. B. C.
C12	1	ø12	_	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Of Com
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

9 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

~					
6	SUP	/EXH	block	assem	hlv

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- The 3/5(E) port is plugged for the built-in silencer type.
- When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

8 Mounting and Option

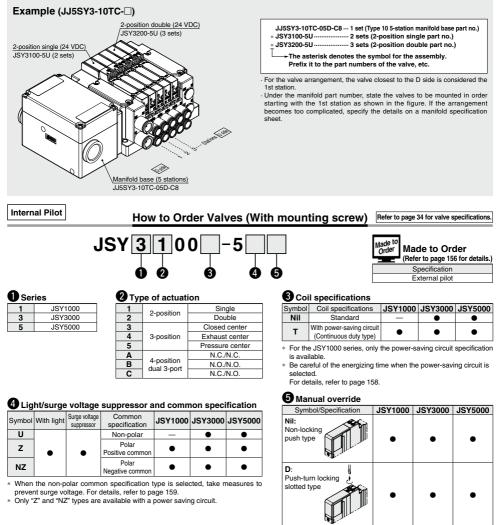
Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- Enter the number of stations inside
 when it is larger than
 the number of valve stations. (Refer to "DIN Rail Option"
 shown below.)
- Refer to page 160 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)			
0	DIN rail	DIN rail mounting (Without DIN rail)		
3	For 3 stations	On a sife of low other low on the set		
:		Specify a length longer tha that of the standard rail.		
24	For 24 stations	that of the standard fail.		

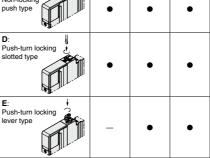
The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.



∧ Caution

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

Protective class Class II (Mark: ♠)



Push-turn locking lever type "E" is not available for the JSY1000.

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.

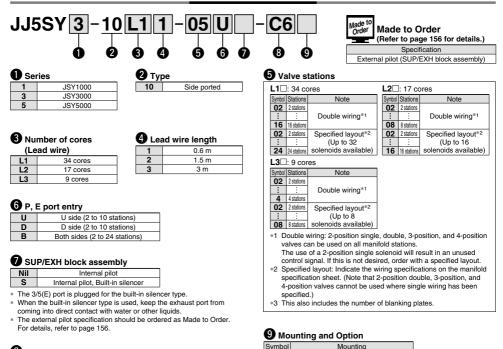
Type 10 Side Ported

JSY1000/3000/5000 Series С Є ЦК Понз

Internal Pilot

How to Order Manifolds

Lead Wire



Symbol	A, B port		JSY1000	JSY3000	JSY5000		
C2		ø2	۲	-	-	12	
C4		ø4	•	•	_		
C6	ᆂ	ø6	۲	•	•		
C8	aig	raight	ø8	—	•	•	
C10	s.	ø10	—	_	•	Q. C.	
C12	1	ø12	_	_	•	00	
CM*1		Straight port, mixed sizes	۲	•	•	- Of Con	
	P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

 $\ast 1$ Indicate the sizes on the manifold specification sheet in the case of "CM."

 The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

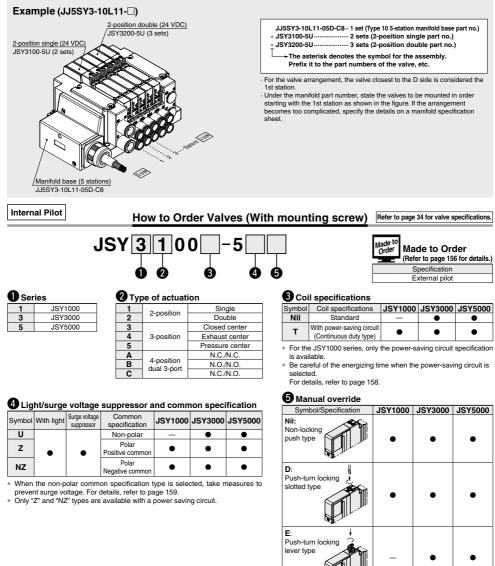
Nil Direct mounting D DIN rail mounting * Enter the number of stations inside when it is larger than

the number of valve stations. (Refer to "DIN Rail Option" shown below.)

 Refer to page 160 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations	On a sife of long other long on the set			
:	:	Specify a length longer that that of the standard rail.			
24	For 24 stations	that of the standard rail.			



∧ Caution

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

Protective class Class II (Mark: ♠)

Symbol/Specification	JSY1000	JSY3000	JSY5000
Nil: Non-locking push type	•	•	•
D: Push-turn locking slotted type	•	•	•
E: Push-turn locking lever type	_	•	•

Push-turn locking lever type "E" is not available for the JSY1000.

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.

EX600

JSY1000/3000/5000 Series

Internal Pilot

ype 10

ide Ported

How to Order Manifolds

JJ5SY3-10S6Q22-05U-C6

|--|

Jeries		
1	JSY1000	
3	JSY3000	
5	JSY5000	

Side ported

2 Туре

10

3 SI unit

0	Without SI unit	
Q	DeviceNet [®]	
N	PROFIBUS DP	
V	CC-Link	
EA	EtherNet/IP™	
EB	EtherNet/IP™ (IO-Link unit)	
DA	EtherCAT (IO-Link unit)	
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 on page 129.

P, E port entry, SUP/EXH block assembly

P, E port entry	Internal pilot	Internal pilot, Built-in silencer
U side (2 to 10 stations)	U	C
D side (2 to 10 stations)	D	E
Both sides (2 to 24 stations)	В	F

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

* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

* The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	۲	_	-	12
C4		ø4	۲	•	-	
C6	토	ø6	۲	•	•	
C8	raight	ø8	—	•	•	
C10	đ	ø10	_	_	•	
C12		ø12	-	-	•	00
CM*1		Straight port, mixed sizes	۲	•	•	- Okalise
P, E port size (One-touch fittings)		ø8	ø10	ø12		

*1 Indicate the sizes on the manifold specification sheet in the case of "CM."
The ISX1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

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

M12 power supply connector IN/OUT, A-coded M12 power 7/8 inch supply SI unit output power suppl Pin Pin connecto polarity connecto B-coded (EX600-ED3) (EX600-ED2) (EX600-ED4) (EX600-ED5) Without SI unit Nil SI unit positive 2 3 6 8 common SI unit negative 4 5 7 ۵ common

 Ensure a match with the common specification of the valve to be used.

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

5 I/O unit stations

Nil	None	
1	1 station	
:		
9	9 stations	

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

9 Mounting and Option

- ∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 160 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

	DIN rail mounting (With DIN rail)			
0	DIN rail mounting (Without DIN rail)			
3	For 3 stations	Creatify a langth langer than		
:	:	Specify a length longer that that of the standard rail.		
24	For 24 stations	that of the standard rail.		

 If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 152 for the DIN rail part number.)

For details on the EX600 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to pages 129 and 130. (IP40 specifications may be required according to the I/O unit to be selected.) Please download the Operation Manual via the SMC website, https://www.smcworld.com

Made to Order Order (Refer to page 156 for details.) Specification External pilot (SUP/EXH block assembly)

RoHS

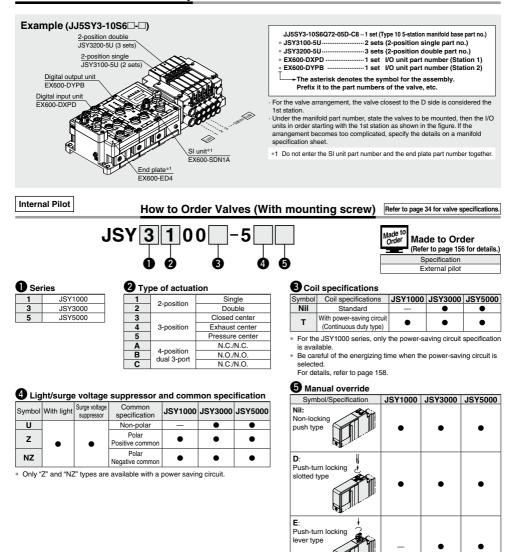
6 Valve stations

-		otatione
Symbol	Stations	Note
02	2 stations	
:	:	Double wiring*1
16	16 stations	
02	2 stations	Specified layout*2
:	:	(I In to 32 solenoids available)
24	24 stations	

*1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

*2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)

 This also includes the number of blanking plates.



* Push-turn locking lever type "E" is not available for the JSY1000.

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.

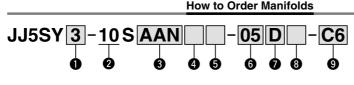


≜Caution

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

ype 10/ Side Ported EX245

JSY3000/5000 Series



Only direct mounting is selectable for the manifold. Nade Made to Order

(Refer to page 156 for details.
Specification
External pilot

(SUP/EXH block assembly)

Series		
3	JSY3000	
5	JSY5000	
-		
2 Туре		

With or without I/O modules

Side ported

Without I/O module

With I/O module When not selecting an SI unit, the symbol will

🚯 SI unit

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

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

5 Number of I/O modules

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

* When not selecting an SI unit, the symbol will he "nil "

P. E port entry

10

Nil

v

be "nil."

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

8 SUP/EXH block assembly

	.,,
Nil Internal pilot	
S	Internal pilot, Built-in silencer

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

- * When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

6 Valve stations

Symbol Stations		Note		
02	2 stations			
:	:	Double wiring*1		
16	16 stations			
02	2 stations	Specified layout*2		
:	:	(Available up to 32		
24	24 stations	solenoids)		

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet.

(Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)

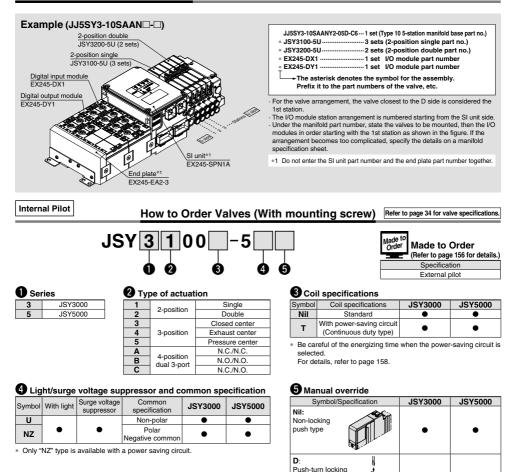
* This also includes the number of the blanking plate assembly.

A B port size (Metric)

U A, I	ч ۲				
Symbol	A, B port		JSY3000	JSY5000	
C4		ø4 One-touch fitting	•	—	18
C6		ø6 One-touch fitting	•	•	
C8	ight	ø8 One-touch fitting	•	•	
C10	Strai	ø10 One-touch fitting	-	•	
C12		ø12 One-touch fitting	-	•	
CM *1		Straight port, mixed sizes		•	C. Mar
P, E port size (One-touch fittings)		ø10	ø12]	

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

For details on the EX245 Integrated Type (For Input/Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 131. Please download the Operation Manual via the SMC website, https:// www.smcworld.com



slotted type

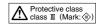
E: Push-turn locking lever type

A Caution

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

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.

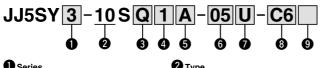


Type 10 Side Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



EX250

U Ser	les
1	JSY1000
3	JSY3000
5	JSY5000

3 SI unit

0	Without SI unit			
Q	DeviceNet [™] (Negative common)			
TA		common type	8 in/8 out	
TB	AS-Interface (Negative common)		4 in/4 out	
TC			8 in/8 out	
TD	commony	type	4 in/4 out	
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.



4 Input block stations

-	
Nil	None
1	1 station
:	
8	8 stations

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

5 Input block type

	PNP sensor input	NPN sensor input
Without input block	N	il
M12, 2 inputs	Α	D
M12, 4 inputs	В	E
M8, 4 inputs	С	F

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

P, E port entry, SUP/EXH block assembly

P, E port entry	Internal pilot	Internal pilot, Built-in silencer
U side (2 to 10 stations)	U	C
D side (2 to 10 stations)	D	E
Both sides (2 to 24 stations)	В	F

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

* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

* The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	-	1
C4		ø4	•	•	-	
C6	aight	ø6	•	•	•	
C8	aj (ø8	—	•	•	
C10	Str	ø10	_	—	•	
C12		ø12	—	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	O.Con
	P, E port size (One-touch fittings)		ø8	ø10	ø12	

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

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

For details on the EX250 Integrated Type (For Input/Output) Serial Transmission System, refer to the **Web Catalog** and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 133. Please download the Operation Manual via the SMC website, https://www.smcworld.com

Made Ord	Made to Order (Refer to page 156 for details.)							
	Specification							
E:	External pilot (SUP/EXH block assembly)							
6	6 Valve stations							
Symbol	Stations	Note						
02	02 2 stations							
:		Double wiring*1						

		Double wiring ^w					
16	16 stations						
02	2 stations	Creatified layer t*2					
: :		Specified layout*2 (Up to 32 solenoids available)					
24	24 stations	(Op to 52 solenoids available)					
d D	1 Double wiring: 2-position single, double						

- 1 Double wirting: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.) When determining the number of valve stations, note that the maximum number of solenoids for the AS-Interface applicable SI unit specification is as follows.
 - 8 in/8 out specification: Max. 8 solenoids
 4 in/4 out specification: Max. 4 solenoids
- This also includes the number of blanking plates
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

9 Mounting and Option

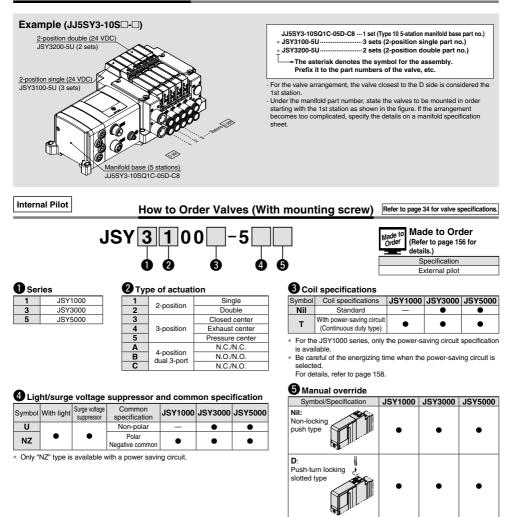
Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- Enter the number of stations inside
 when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 160 for details on securing the DIN rail mounting type manifold.
- DIN rail mounting (D□) is not available for the product without the SI unit (S0).

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations				
:	:	Specify a length longer than that of the standard rail.			
24	For 24 stations	that of the standard fail.			

 Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 152 for the DIN rail part number.)



E: Push-turn locking lever type

included.



* Push-turn locking lever type "E" is not available for the JSY1000.

* When ordering a valve individually, the base gasket is not

∧ Caution

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



JSY1000/3000/5000 Series

Refer to page 106 for details on manifolds that support safety communication (PROFIsafe).

Internal Pilot

How to Order Manifolds

Side ported

U side (2 to 10 stations)

D side (2 to 10 stations)

Both sides (2 to 24 stations)

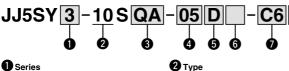
Internal pilot

Internal pilot, Built-in silencer The 3/5(E) port is plugged for the built-in

* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

The external pilot specification should be

ordered as Made to Order. For details, refer



10

D

в

Nil

S

silencer type

to page 156.

P, E port entry

G SUP/EXH block assembly

EX260

1	JSY1000	
3	JSY3000	
5	JSY5000	

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

Symbol (Out	tout nolarity)	,	Number		
Positive common (NPN)	Negative common (PNP)	Protocol	of outputs	Communication connector	
0	*1	Without	SI unit		
QA	QAN	DeviceNet®	32	M12	
QB	QBN	Devicemet	16	IVI I Z	
NA	NAN		32	MIO	
NB	NBN	PROFIBUS	16	M12	
NC	NCN	DP	32	*3 D-sub	
ND	NDN		16		
VA	VAN	CC-Link	32	M12	
VB	VBN	CC-LINK	16		
DA	DAN	EtherCAT	32	M12	
DB	DBN	EllierCAT	16		
FA	FAN	PROFINET	32	M12	
FB	FBN	PROFINEI	16	IVI I Z	
EA	EAN	EtherNet/IP™	32	M12	
EB	EBN	Ellenvelle	16	IVI I Z	
*2	GAN	Ethernet	32	M12	
*2	GBN	POWERLINK	16	11112	
*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.

- 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.

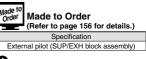
A, B port size (Metric/One-touch fitting)

Symbol		A, B port	JSY1000	JSY3000	JSY5000			
C2		ø2	۲	—	-	-		
C4	1	ø4	۲	•	-			
C6	Ĕ	ø6	۲	•	•			
C8	Straight	aic	aj (ø8	_	•	•	
C10		ø10	—	—	•	Q. C. F		
C12		ø12	—	—	•	00		
CM*1		Straight port, mixed sizes	۲	•	•	O Car		
	P, E port size (One-touch fittings)		ø8	ø10	ø12			

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

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected. the manifold pitch is different depending on the selected fitting.

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 134. Please download the Operation Manual via the SMC website, https://www.smcworld.com



4 Valve stations

In the case of the 32-output SI unit

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

In the case of the 16-output SI unit

Symbol	Stations	Note				
02	2 stations					
÷	:	Double wiring*1				
08	8 stations					
02	2 stations	0				
÷	:	Specified layout*2 (Up to 16 solenoids available)				
16	16 stations	(Op to 16 solenoids available)				

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position. and 4-position valves cannot be used where single wiring has been specified.)
- * This also includes the number of blanking plates.
- For the product without the SI unit (S0), note the maximum number of solenoids of the SI unit that will be mounted. If the layout is specified, indicate it on the manifold specification sheet.

8 Mounting and Option

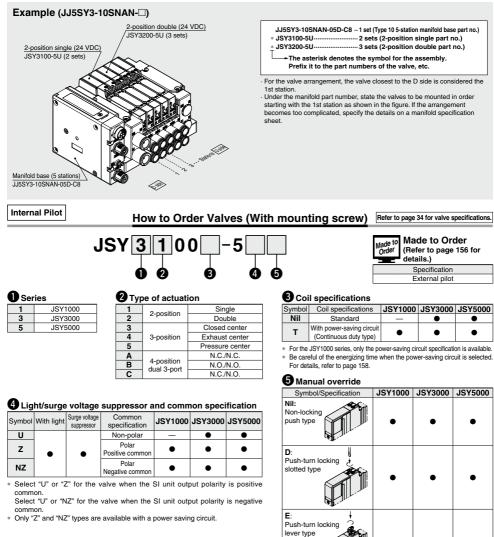
Symbol	Mounting			
Nil	Direct mounting			
D	DIN rail mounting			

- * Enter the number of stations inside
 when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 160 for details on securing the DIN rail mounting type manifold.
- * DIN rail mounting (DD) is not available for the product without the SI unit (S0).

DIN Bail Option

Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations				
:	:	Specify a length longer than that of the standard rail.			
24	For 24 stations	that of the standard fail.			

* Befer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 152 for the DIN rail part number.)



∧ Caution

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

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

* Push-turn locking lever type "E" is not available for the JSY1000.

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers.





JSY1000/3000/5000 Series

Safety Communication Protocol (PROFIsafe)

Using the safety communication protocol

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

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

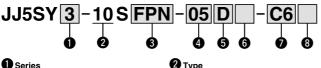
EX260

The use of valves that have been validated as being compliant with ISO 13849-2 may be required.

For details on valves that have been validated, please contact SMC. In addition, refer to "Safety Instructions" for precautions on model selection.

Internal Pilot

How to Order Manifolds



Series

1	JSY1000			
3	JSY3000			
5	JSY5000			

4 Valve stations

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

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

The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.

- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 3-position and 4-position valves cannot be used where single wiring has been specified.)
- * This also includes the number of blanking plates.

2 Type

Side ported

9 P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
В	Both sides (2 to 24 stations)

6 SUP/EXH block assembly

Nil	Internal pilot		
s	Internal pilot, Built-in silencer		

- The 3/5(E) port is plugged for the built-in silencer type. * * When the built-in silencer type is used, keep the exhaust port
- from coming into direct contact with water or other liquids The external pilot specification should be ordered
- as Made to Order. For details, refer to page 156.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	—	-
C4		ø4	•	•	—	
C6	Ĕ	ø6	•	•	•	
C8	Straight	ø8	—	•	•	
C10	1	ø10	—	—	•	
C12		ø12	—	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Okener
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

* The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

- * Enter the number of stations inside
 when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- Refer to page 160 for details on securing the DIN rail mounting type manifold.
- DIN rail mounting (DD) is not available for the product without the SI unit (S0).

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)					
0	DIN rail mounting (Without DIN rail)					
3	For 3 stations	Specify a length longer that				
:	:					
24	For 24 stations	that of the standard fail.				

* Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 152 for the DIN rail part number.)

For details on the EX260 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 134. Please download the Operation Manual via the SMC website, https://www.smcworld.com

Made to Order (Refer to page 156 for details.)

Specification

Refer to page 104 for details on manifolds

that support Fieldbus and Industrial Ethernet.

External pilot (SUP/EXH block assembly)

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

- · ·	Itput polarity) Negative common (PNP)	Protocol	Number of outputs	Communication connector
0 *1		Without	SI unit	
—*2 FPN		PROFIsafe	32*3	M12

*1 Without SI unit, the output polarity is decided by the SI unit used. Ensure a match with the common

specification of the valves to be used. *2 Positive common (NPN) type is not available.

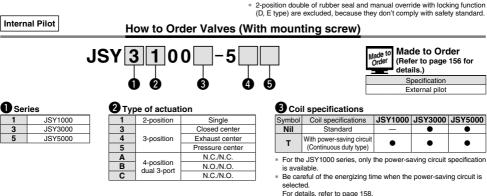
*3 Only the 32 outputs type is available.

* DIN rail cannot be mounted without SI unit.

Eugen Connector Connecting Base JSY1000/3000/5000 Series

[Validated product examples]

Please contact SMC for further details as supported variations are continually being added.



Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	JSY1000	JSY3000	JSY5000
U			Non-polar	-	•	•
NZ	•	•	Polar Negative common	•	•	•

* Only "NZ" type is available with a power saving circuit.

If the JSY3000/5000 series is to

be continuously energized, please

be sure to select the power-sav-

ing circuit (continuous duty type)

∧ Caution

specification.

For details, refer to page 158.

5 Manual override

Symbol/Specification	JSY1000	JSY3000	JSY5000
Nil: Non-locking push type	•	•	•

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 for base gasket and mounting screw part numbers

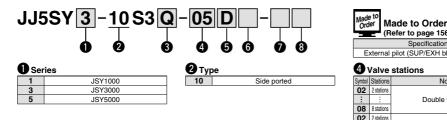
EX120

vpe 10 de Ported

JSY1000/3000/5000 Series

Internal Pilot

How to Order Manifolds



🚯 SI unit

0	Without SI unit			
Q	DeviceNet® (Positive common NPN)			
V	CC-Link (Positive common NPN)			
ZB *1	CompoNot®	Positive common NPN		
ZBN ^{*1}	CompoNet [®]	Negative common PNP		

- *1 The communication connector (for the opposite side) is not provided. Please order it separately.
- * Ensure a match with the common specification of the valve to be used.

() P, E	E port entry
U	U side (2 to 10 sta

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
в	Both sides (2 to 16 stations)

6 SUP/EXH block

Nil	Internal pilot
S	Internal pilot, Built-in silencer

- * The 3/5(E) port is plugged for the built-in silencer type.
- The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

(Refer to page 156 for details.)						
	Specification					
E	xternal	pilot (SUP/EXH block assembly)				
4 Valve stations						
Symbol	Stations	Note				
02	2 stations					
:	:	Double wiring*1				
08	8 stations					
02	2 stations	Creatified laws ##2				
:	:	Specified layout*2 (Up to 16 solenoids available)				
16	16 stations	(Op to 16 solenoids available)				

- *1 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations. The use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *2 Specified layout: Indicate the wiring specifications on the manifold specification sheet. (Note that 2-position double, 3-position, and 4-position valves cannot be used where single wiring has been specified.)
- * This also includes the number of blanking plates.
- * Since R2 type SI unit has 8 outputs, note that up to 8 solenoids can be accommodated.

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

Symbol		A, B port	JSY1000	JSY3000	JSY5000	
C2		ø2	•	—	_	12
C4		ø4	۲	•	-	
C6	aight	ø6	۲	•	•	
C8	ai	ø8	—	•	•	
C10	Sta	ø10	-	—	•	
C12		ø12	-	—	•	00
CM*1		Straight port, mixed sizes	•	•	•	- Ok Com
P, E port size (One-touch fittings)		ø8	ø10	ø12		

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

The JSY1000 manifold pitch for C2 and C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

8 Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D	DIN rail mounting

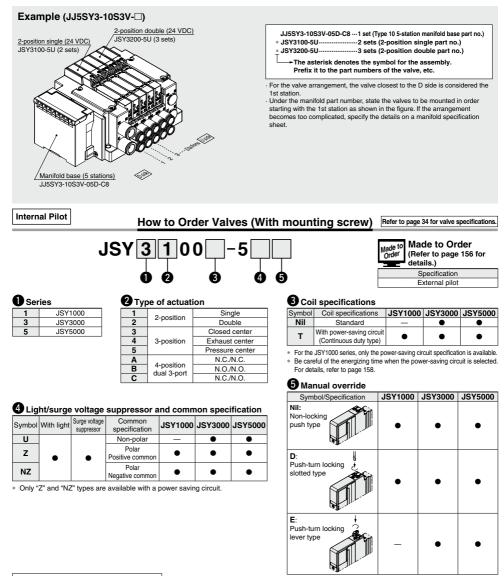
- * Enter the number of stations inside
 when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown below.)
- * Refer to page 160 for details on securing the DIN rail mounting type manifold.

DIN Rail Option

Nil	DIN rail mounting (With DIN rail)				
0	DIN rail mounting (Without DIN rail)				
3	For 3 stations	Cassify a length langer the			
:	:	Specify a length longer than that of the standard rail.			
16	For 16 stations				

* If the DIN rail must be mounted without an SI unit, select D0. Refer to L3 of the dimensions for the DIN rail length and order separately. (Refer to page 152 for the DIN rail part number.)

For details on the EX120 Integrated Type (For Output) Serial Transmission System, refer to the Web Catalog and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 135. Please download the Operation Manual via the SMC website, https://www.smcworld.com



* Push-turn locking lever type "E" is not available for the JSY1000.

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

Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to page 137 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.



- not exceed the number of output points. (Number of ejector solenoids: 2 per station)
- This also includes the number of blanking plates.
- For models without an SI unit (S0), note the number of output points of the SI unit that will be mounted
- The 3/5(E) port is plugged for the built-in silencer type. When the built-in silencer type is used, keep the exhaust port from coming into

silence

Built-in

silencer

direct contact with water or other liquids

U side (2 to 10 stations) Internal pilot.

BS Both sides (2 to 24 stations)

F Both sides (2 to 24 stations)

D side (2 to 10 stations)

С

E

The external pilot specification should be ordered as Made to Order. For details, refer to page 156.

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

Symbol	A, B port	P, E port
C4	Straight ø4	
C6	Straight ø6	ø10
C8	Straight ø8	
CM*1	Straight port, mixed sizes	

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

EX260(SI)/EX245(SI)/EX120(S3I)

EX600(S6□)

EX250(S□)

	W Mounting		
Symbol	Mounting		
Nil	Direct mounting		
D	DIN rail mounting (With DIN rail)		
D0	DIN rail mounting (Without DIN rail)		

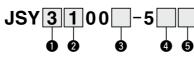
Refer to page 160 for details on securing the DIN rail mounting type manifold.

Vacuum Unit ZK2 Combination Ma

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

Internal Pilot

How to Order Valves (With mounting screw) Refer to page 34 for valve specifications.



Ser	ies
3	JSY3000

Coil specifications

Standard

With power-saving circuit

(Continuous duty type)

power-saving circuit is selected. For details, refer to page 158.

Be careful of the energizing time when the

Coil specifications

Symbol

Nil

т

2 Type of actuation

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

Light/surge voltage suppressor and common specification

s	Symbol	With light	Surge voltage suppressor	Common specification	JSY3000	
	U			Non-polar	•	
	z	•	• •	•	Polar Positive common	•
	NZ			Polar Negative common	•	

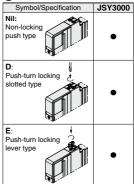
* When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to page 159.

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



JSY3000 Series

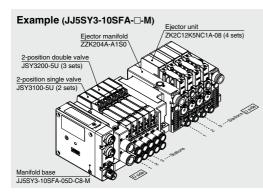
6 Manual override



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

Refer to page 137 for base gasket and mounting screw part numbers.

How to Order Manifold Assembly



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

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



∧ Caution

JSY3000

.

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

JSY3000 Series

Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to page 141 for an order example.

How to Order Manifolds



Stations*1

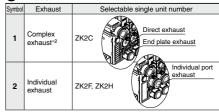
Symbol	Stations	*1
01	1 station	
02	2 stations	
:	:	
08	8 stations	

For adequate performance, the number of stations that can be operated simultaneously depends on the nozzle diameter. For details, refer to the ZK2DA series catalog.

2 System/Port

Symbol	System	Port
A	Ejector system	ø8 (Common PV)

3 Exhaust



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

Supply valve and release valve wiring^{*3}

Symbol	Wiring	(Refer to "H	ng for manifold low to Order n page 143.)	
		С	C1	
S0	Centralized wiring	•	•	

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

Option^{*4}

Symbol	Туре		Selecta to "How				
		E	J	K	L	Р	W
Nil	Without option		•	٠	-	-	•
В	With DIN rail mounting bracket*5		•	•	—	_	•
D	With common release pressure supply (PD) port		•	•	—	0*6	•
L	Manifold individual supply specification	٠	•	٠	©*6	_	•

*4 When more than one option is selected, list the option symbols in alphabetical order. (Example -BD)

*5 Be sure to select the DIN rail mounting for the mounting method of the valve manifold.

*6 When option "D" is selected, select option "P" for the single unit for manifold. When option "L" is selected, select option "L" for the single unit for manifold. (© must be selected.)

* For details, refer to "Optional Specifications/Functions/Applications" below.

Optional Specifications/Functions/Applications

Symbol			Туре	Function/Application
Е		Screwdriver operation type long lock nut	Screwdriver operation type long lock nut	 Used when the port position is close to the manifold's individual supply and needle adjustment is difficult
J	flow adjusting Round lock nut			Thicker than the standard hexagon type More suitable for hand tightening The round lock nut improves operability when the manifold or exhaust port type is used.
к		Screwdriver operation type	Vacuum break flow adjusting needle	 The slotted type allows for fine adjustment when the manifold or exhaust port type is used.
L	Manifold individual supply specification Individual supply cont		Individual supply port	 For adjusting the manifold's supply pressure and the vacuum pressure reached by each ejector individually
Р	With manifold common release pressure supply (PD) port		supply (PL) port) a pressure which is differen	
w	With exhaust interference prevention valve		Dackward from ti	

Vacuum Unit ZK2 Combination Manife

JSY3000 Series

Specify the valve manifold and mounted valve part numbers as well as the ejector manifold and mounted ejector part numbers for ordering. Refer to page 141 for an order example. For ejector specifications, refer to the Web Catalog.

How to Order Ejectors

ZK2□A Series

ZK2C12K5ACA-08-

Body/Exhaust type

Symbol	Body	Exhaust type			
с		Complex exhaust*1			
F	For Manifold	Individual port exhaust			
н		High-noise reduction silencer exhaust			

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

Pressure switch for vacuum/Pressure sensor

		_	Specifications		
Symbol	Туре	Pressure range [kPa]	NPN	PNP	With unit selection
		range [ki aj	2 ou	tputs	function*3
Α			٠	—	•
В	for	0 to -101	•	—	None (SI unit only)
С	5_	010-101	—	•	•
D	swit		—	٠	None (SI unit only)
Е	act.		٠	-	•
F	Pressure switch for vacuum	-100 to 100	•	—	None (SI unit only)
н	Pre	-100 10 100	—	•	•
J	1		-	٠	None (SI unit only)
Ρ	Pressure	0 to -101		autout 1 to E V	
Т	sensor	-100 to 100	Analog output 1 to 5 V		
Ν	Without p	ressure switch for	or vacuum/pressure sensor		

*3 The unit selection function is not available in Japan due to the New Measurement Law. The unit for the type without the unit selection function is fixed as kPa.

Ø v	/acuum	(V)	port

Symbol	Vacuum (V) port
06	ø6
08	ø8

2 Nominal nozzle size

Symbol	Nominal nozzle size				
07	ø0.7				
10	ø1.0				
12	ø1.2				
15	ø1.5				
 Refer to the ZK2□A series catalog for the standard supply pressure per nozzle 					

Combination of supply valve and release valve

Symbol	Supply	Supply valve	
Symbol	N.C.	Self-holding	N.C.
κ	•	—	•
J	•	—	—
R	-	●* ²	•

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

4 Rated voltage					
	(Supply valve/Release valve				
	Symbol	Voltage			
	5	24 VDC			

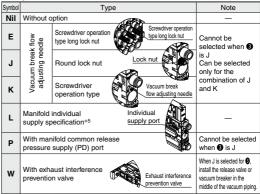
6 Connector

diameter.

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

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

8 Option*4 (For details on the Function/Application, refer to page 142.)



*4 When more than one option is selected, list the option symbols in alphabetical order. (Example -EL)

*5 When F or H is selected for ① and L is selected for the option, the space for adjusting the needle is reduced. Products which can be operated more easily can be specified by option E or K.