Type 10
Side Ported

Plug-in Connector Connecting Base

D-sub Connector

25A-JSY1000/3000 Series

CE UKCA RoHS c UL us *1

*1 JSY3000 only

Internal Pilot

How to Order Manifolds

25A – JJ5SY 3 – 10 F 1 – 05 D □ – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type

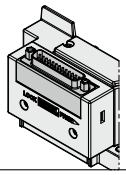
10	Side ported

❸ Connector type

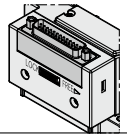
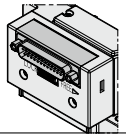
F: D-sub connector

Connector entry direction adjustable

<IP40>
(25 pins)



❹ Connector entry direction

1: Upward	2: Lateral
	

❺ Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
12	12 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

*1 Double wiring: 2-position single, 2-position 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.

❻ P, E port entry

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

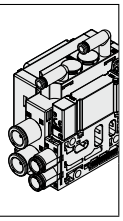
❼ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

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

Symbol		A, B port	JSY1000	JSY3000
C4	Straight	ø4	●	●
C6	Straight	ø6	●	●
C8	Straight	ø8	—	●
CM*1	Straight	Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			ø8	ø10



*1 Indicate the sizes on the manifold specification sheet for "CM."

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

❾ Mounting and Option

Symbol	Mounting
Nil	Direct mounting
D□	DIN rail mounting

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.
⋮	⋮	
16	For 16 stations	

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" shown above.)

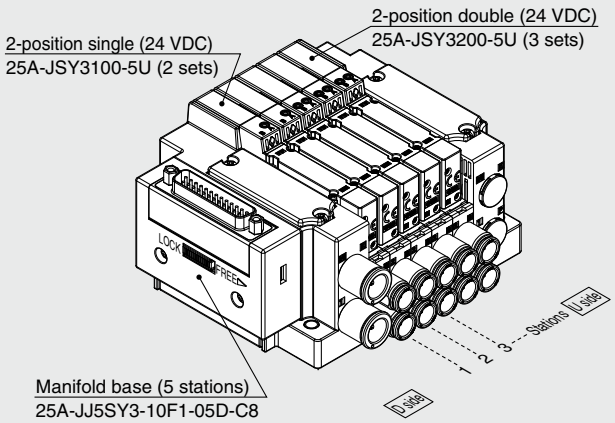
* Refer to the **Web Catalog** for details on securing the DIN rail mounting type manifold.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Manifold Assembly

Example (25A-JJ5SY3-10F1-□)



25A-JJ5SY3-10F1-05D-C8 ···1 set (Type 10 5-station manifold base part no.)
∗ 25A-JSY3100-5U ·····2 sets (2-position single part no.)
∗ 25A-JSY3200-5U ·····3 sets (2-position double 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.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the **Web Catalog** for valve specifications.

25A-JSY 3 1 00 □ -5 □ □

❶ ❷ ❸ ❹ ❺

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type of actuation

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

❸ Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000
Nil	Standard	—	●
T	With power-saving circuit (Continuous duty type)	●	●

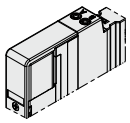
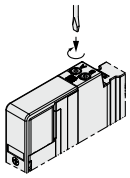
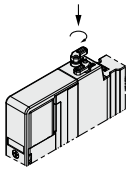
∗ For the JSY1000 series, only the power-saving circuit specification is available.
∗ Be careful of the energizing time when the power-saving circuit is selected.

❹ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	JSY1000	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 the **Web Catalog**.
∗ Only "Z" and "NZ" types are available with a power saving circuit.

❺ Manual override

Symbol/Specification	JSY1000	JSY3000
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.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

⚠ Caution

If the JSY3000 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 the **Web Catalog** for base gasket part numbers.
Refer to page 24 for mounting screw part numbers.

Type 10
Side Ported

Plug-in Connector Connecting Base

Terminal Block Box

25A-JSY1000/3000 Series

Internal Pilot

How to Order Manifolds

25A – JJ5SY 3 – 10 T – 05 D □ – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type

10	Side ported

❸ Wiring

T	Terminal block box

❹ Valve stations

T: Terminal block box

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
10	10 stations	
02	2 stations	Specified layout*2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

*1 Double wiring: 2-position single, 2-position 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.

❺ P, E port entry

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

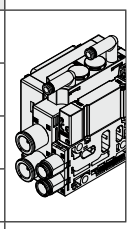
❻ SUP/EXH block assembly

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.

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

Symbol		A, B port	JSY1000	JSY3000
C4	Straight	ø4	●	●
C6	Straight	ø6	●	●
C8	Straight	ø8	—	●
CM*1	Straight	Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			ø8	ø10



*1 Indicate the sizes on the manifold specification sheet for "CM."
* The JSY1000 manifold pitch for C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

❽ 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 the **Web Catalog** for details on securing the DIN rail mounting type manifold.

DIN Rail Option

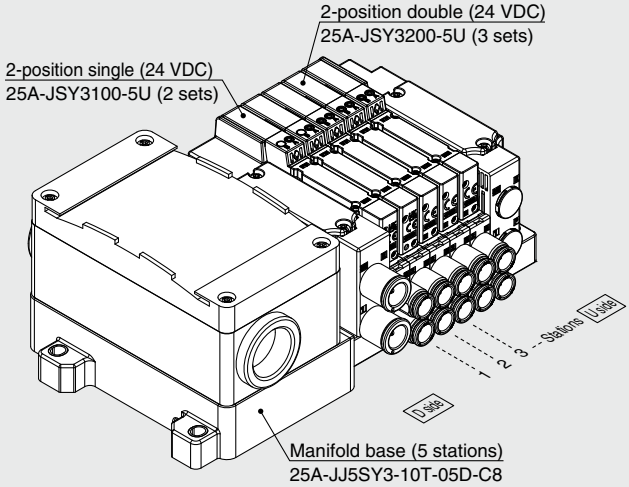
Nil	DIN rail mounting (With DIN rail)	
0	DIN rail mounting (Without DIN rail)	
3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
16	For 16 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Manifold Assembly

Example (25A-JJ5SY3-10T-□)



25A-JJ5SY3-10T-05D-C8 ····· **1 set (Type 10 5-station manifold base part no.)**
∗ 25A-JSY3100-5U ····· **2 sets (2-position single part no.)**
∗ 25A-JSY3200-5U ····· **3 sets (2-position double 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.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the **Web Catalog** for valve specifications.

25A-JSY 3 1 00 □ -5 □ □

❶ ❷ ❸ ❹ ❺

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type of actuation

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

❸ Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000
Nil	Standard	—	●
T	With power-saving circuit (Continuous duty type)	●	●

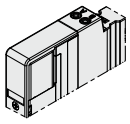
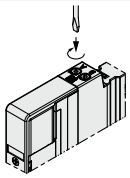
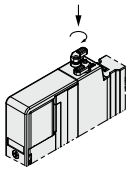
∗ For the JSY1000 series, only the power-saving circuit specification is available.
∗ Be careful of the energizing time when the power-saving circuit is selected.

❹ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	JSY1000	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 the **Web Catalog**.
∗ Only "Z" and "NZ" types are available with a power saving circuit.

❺ Manual override

Symbol/Specification	JSY1000	JSY3000
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.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

⚠ Caution

If the JSY3000 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 the **Web Catalog** for base gasket part numbers.
Refer to page 24 for mounting screw part numbers.

Type 10
Side Ported

Plug-in Connector Connecting Base

EX260

25A-JSY1000/3000 Series

CE UKCA RoHS c UL us *1

*1 JSY3000 only

Internal Pilot

How to Order Manifolds

25A-JJ5SY 3 - 10 S QA - 05 D □ - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

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

Symbol (Output polarity)		Protocol	Number of outputs	Communication connector
Positive common (NPN)	Negative common (PNP)			
0*1		Without SI unit		
QA	QAN	DeviceNet™	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
—	KAN	IO-Link	32	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.
* DIN rail cannot be mounted without SI unit.
* For IO-Link, only the negative common (PNP) type and the 32 outputs type are available.

❷ Type

10	Side ported

❺ P, E port entry

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

❻ 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.

❹ Valve stations

In the case of the 32-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
16	16 stations	

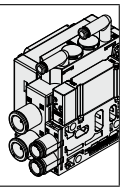
In the case of the 16-output SI unit

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

*1 Double wiring: 2-position single, 2-position 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.

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

Symbol	A, B port		JSY1000	JSY3000
C4	Straight	ø4	●	●
C6		ø6	●	●
C8		ø8	—	●
CM*1		Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			ø8	ø10



*1 Indicate the sizes on the manifold specification sheet for "CM."
* The JSY1000 manifold pitch for C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

❽ 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 the **Web Catalog** 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.
⋮	⋮	
16	For 16 stations	

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

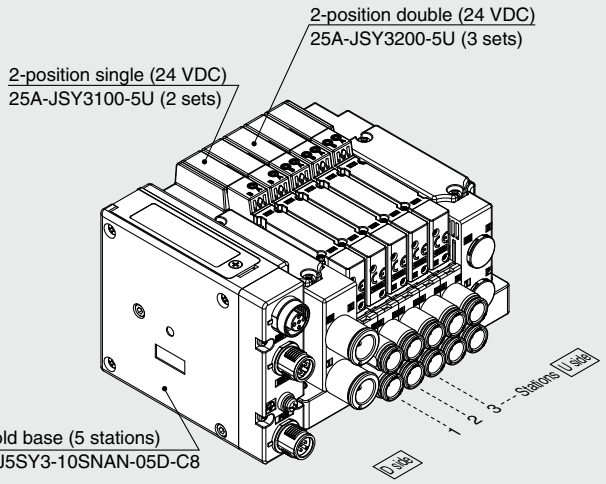
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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 the Web Catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Manifold Assembly

Example (25A-JJ5SY3-10SNAN-□)



25A-JJ5SY3-10SNAN-05D-C8 ···1 set (Type 10 5-station manifold base part no.)
∗ 25A-JSY3100-5U ·····2 sets (2-position single part no.)
∗ 25A-JSY3200-5U ·····3 sets (2-position double 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.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the **Web Catalog** for valve specifications.

25A-JSY 3 1 00 □ -5 □ □

❶ ❷ ❸ ❹ ❺

•Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type of actuation

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

❸ Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000
Nil	Standard	—	●
T	With power-saving circuit (Continuous duty type)	●	●

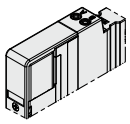
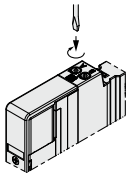
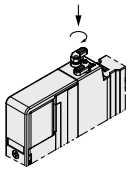
∗ For the JSY1000 series, only the power-saving circuit specification is available.
∗ Be careful of the energizing time when the power-saving circuit is selected.

❹ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	JSY1000	JSY3000
U	●	●	Non-polar	—	●
Z			Polar Positive common	●	●
NZ			Polar Negative common	●	●

∗ Select "U" or "Z" for the valve when the SI unit output polarity is positive common. Select "U" or "NZ" for the valve when the SI unit output polarity is negative common.
∗ Only "Z" and "NZ" types are available with a power saving circuit.

❺ Manual override

Symbol/Specification	JSY1000	JSY3000
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.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

⚠ Caution

If the JSY3000 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 the **Web Catalog** for base gasket part numbers.
Refer to page 24 for mounting screw part numbers.

Type 10
Side Ported

Plug-in Connector Connecting Base

EX120

25A-JSY1000/3000 Series

Internal Pilot

How to Order Manifolds

25A – JJ5SY 3 – 10 S3 Q – 05 D □ – □ □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type

10	Side ported

❸ SI unit

0	Without SI unit
Q	DeviceNet™ (Positive common NPN)
V	CC-Link (Positive common NPN)

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

❹ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout∗2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

∗1 Double wiring: 2-position single, 2-position 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.

❺ P, E port entry

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

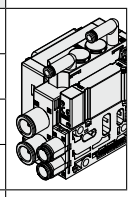
❻ SUP/EXH block

Nil	Internal pilot
S	Internal pilot, Built-in silencer

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

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

Symbol	A, B port		JSY1000	JSY3000
C4	Straight	ø4	●	●
C6		ø6	●	●
C8		ø8	—	●
CM∗1		Straight port, mixed sizes	●	●
P, E port size (One-touch fittings)			ø8	ø10



∗1 Indicate the sizes on the manifold specification sheet for "CM."
∗ The JSY1000 manifold pitch for C4 is 6.5 mm, and 9 mm for C6. When CM is selected, the manifold pitch is different depending on the selected fitting.

❽ 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 the **Web Catalog** 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	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 the **Web Catalog** for the DIN rail part number.)

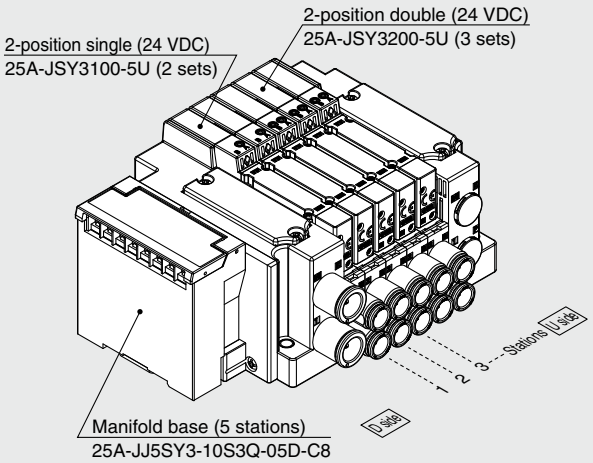
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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 the Web Catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Manifold Assembly

Example (25A-JJ5SY3-10S3Q-□)



25A-JJ5SY3-10S3Q-05D-C8 ··1 set (Type 10 5-station manifold base part no.)
∗ 25A-JSY3100-5U ·····2 sets (2-position single part no.)
∗ 25A-JSY3200-5U ·····3 sets (2-position double 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.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the **Web Catalog** for valve specifications.

25A-JSY 3 1 00 □ -5 □ □

❶ ❷ ❸ ❹ ❺

• Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type of actuation

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

❸ Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000
Nil	Standard	—	●
T	With power-saving circuit (Continuous duty type)	●	●

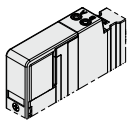
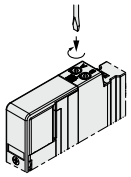
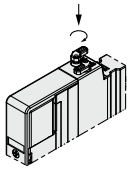
∗ For the JSY1000 series, only the power-saving circuit specification is available.
∗ Be careful of the energizing time when the power-saving circuit is selected.

❹ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification	JSY1000	JSY3000
U	●	●	Non-polar	—	●
Z			Polar Positive common	●	●
NZ			Polar Negative common	●	●

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

❺ Manual override

Symbol/Specification	JSY1000	JSY3000
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.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Caution

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

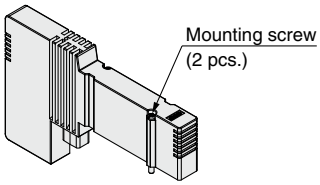
∗ **When ordering a valve individually, the base gasket is not included.**
Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to the **Web Catalog** for base gasket part numbers.
Refer to page 24 for mounting screw part numbers.

⚠ Protective class class Ⅲ (Mark: Ⅲ)

25A-JSY1000/3000 Series
Manifold Options

■Blanking plate assembly

(With two mounting screws)
Used when valve additions are expected or for maintenance. A structure is in place on the blanking plate to prevent the mounting screws from sliding.



How to Order Blanking Plate Assembly

25A – JSY 3 1M – 26P – 1A

Series

1	JSY1000
3	JSY3000

SI Unit Part Nos.

Description	SI unit part no.	Note
EX260 SI unit	**EX260-SPR1-X117**	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPR2-X117	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPR3-X117	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPR4-X117	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
	EX260-SDN1-X117	DeviceNet® M12 connector, 32 outputs, Negative common (PNP)
	EX260-SDN2-X117	DeviceNet® M12 connector, 32 outputs, Positive common (NPN)
	EX260-SDN3-X117	DeviceNet® M12 connector, 16 outputs, Negative common (PNP)
	EX260-SDN4-X117	DeviceNet® M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)
	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
	EX260-SMJ1-X117	CC-Link M12 connector, 32 outputs, Negative common (PNP)
	EX260-SMJ2-X117	CC-Link M12 connector, 32 outputs, Positive common (NPN)
	EX260-SMJ3-X117	CC-Link M12 connector, 16 outputs, Negative common (PNP)
	EX260-SMJ4-X117	CC-Link M12 connector, 16 outputs, Positive common (NPN)
	EX260-SPN1-X117	PROFINET M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPN2-X117	PROFINET M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPN3-X117	PROFINET M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPN4-X117	PROFINET M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEN1-X117	EtherNet/IP™ M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEN2-X117	EtherNet/IP™ M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEN3-X117	EtherNet/IP™ M12 connector, 16 outputs, Negative common (PNP)
	EX260-SEN4-X117	EtherNet/IP™ M12 connector, 16 outputs, Positive common (NPN)
	EX260-SIL1-X117	IO-Link M12 connector, 32 outputs, Negative common (PNP)
EX120 SI unit	**EX120-SMJ1-X220**	CC-Link (Terminal block, 16 outputs, Positive common (NPN))
	EX120-SDN1-X220	DeviceNet® (Terminal block, 16 outputs, Positive common (NPN))

One-touch Fittings Part Nos.

Port size \ Series		25A-JSY1000		25A-JSY3000	Note
		6.5 mm pitch	9 mm pitch		
A, B port	ø4	25A-KQSY10-C4-X1336	—	25A-KQSY30-C4	The part number is for 1 piece. (Sales unit: 10 pcs.)
	ø6	—	25A-KQSY11-C6-X1336	25A-KQSY30-C6	
	ø8	—		25A-KQSY30-C8-X1336	
P, E port	ø8	25A-KQSY30-C8-X1336		—	
	ø10	—		25A-KQSY31-C10-X1336	

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting Straight type

25A – JSY 3 1M – 38 P – 1A – C6

Series

1	JSY1000
3	JSY3000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port	JSY1000	JSY3000
C4	ø4 One-touch fitting	●	—
C6	ø6 One-touch fitting	—	●

Part numbers of mounting screw (2 pcs. of each)
JSY1000: 25A-JSY11V-23-5A
JSY3000: 25A-JSY31V-23-2A

Manifold Parts Nos./For the 25A-JJ5SY1-10, 25A-JJ5SY3-10

Description	25A-JSY1000		25A-JSY3000
	6.5 mm pitch	9 mm pitch	
Tie-rod for additional stations	**JSY11M-49P-4-1-A** (6.5 mm pitch)	**JSY11M-49P-3-1-A** (9 mm pitch)	**JSY31M-49P-2-1-A** (11.5 mm pitch)
Tie-rod	**JSY11M-49P-4-□-A** (6.5 mm pitch)	**JSY11M-49P-3-□-A** (9 mm pitch)	**JSY31M-49P-2-□-A** (11.5 mm pitch)
Valve mounting screw	**25A-JSY11V-23-4A** (M1.4 x 21.5)		**25A-JSY31V-23-1A** (M2 x 25)
Clamp bracket (for connector connecting base)	**25A-JSY11M-15P-1A** (Refer to the table below.) **25A-JSY11M-15P-2A** (Refer to the table below.)		**25A-SY30M-15-1A**

Table. 25A-JSY1000 series clamp bracket

Wiring (JSY1000 series)		25A-JSY11M-15P-1A	25A-JSY11M-15P-2A
F	D-sub connector	●	—
T	Terminal block box	—	●
S□□	EX260	●	—
S3	EX120	●	—

Manifold Parts Nos.

Ⓐ Manifold block assembly

25A − JSY 3 1M − 2P − 1 D A − C8

Series

1	JSY1000
3	JSY3000

Manifold pitch

1	JSY1000 (6.5 mm pitch) JSY3000 (11.5 mm pitch)
2	JSY1000 (9 mm pitch)

Wiring type

S	Single wiring
D	Double wiring

A, B port size (One-touch fittings)

Symbol	A, B port	JSY1000		JSY3000
		6.5 mm pitch	9 mm pitch	
C4	ø4 One-touch fitting	●	—	●
C6	ø6 One-touch fitting	—	●	●
C8	ø8 One-touch fitting	—		●

Manifold Parts Nos.

Ⓑ SUP/EXH end block assembly

25A − JSY [3] 1M − 3P − 1A [ ] − [C10] [ ]

Series

1	JSY1000
3	JSY3000

Pilot, Silencer type

Symbol	Pilot type	Built-in silencer
	Internal	
Nil	●	—
S	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	ø8 One-touch fitting	●	—
C10	ø10 One-touch fitting	—	●
00	Plug	●	●

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)
D00∗1	DIN rail mounting (Without DIN rail)

∗1 Part number only for the 25A-JSY1000
Part number is different depending on the wiring.
Refer to Table 1.

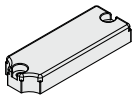
Table 1. JSY1000 series DIN rail mounting

Symbol	Wiring
D0	D-sub connector (**F** type) EX260 (**S**□□ type) EX120 (**S3** type)
D00	Terminal block box (**T** type)

Clamp bracket

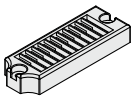
Series		Part no.
25A-JSY1000	For **D0**	25A-JSY11M-15P-1A
	For **D00**	25A-JSY11M-15P-2A
25A-JSY3000		25A-SY30M-15-1A

■ Cover, Silencer cover for SUP/EXH (end) block assembly



Cover
(Internal pilot)

25A − JSY [3] 1M − 4P − 1A



Silencer cover
(Internal pilot, Built-in silencer)

25A − JSY [3] 1M − 5P − 1A

Series

1	JSY1000
3	JSY3000

Manifold Parts Nos.

Ⓒ SUP/EXH block assembly

For D-sub connector

25A-JSY[3]1M-1P-3A[ ][1]-[C10][ ]

Series

1	JSY1000
3	JSY3000

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

Pilot, Silencer type

Symbol	Pilot type Internal	Built-in silencer
Nil	●	—
S	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	ø8 One-touch fitting	●	—
C10	ø10 One-touch fitting	—	●
00	Plug	●	●

Connector entry direction

1	Upward
2	Lateral

For the terminal block box or EX260

25A-JSY[3]1M-1P-1A[ ]-[C10][ ]

Series

1	JSY1000
3	JSY3000

Mounting

Symbol	Mounting	JSY1000 Terminal block	JSY1000 EX260	JSY3000
Nil	Mounting	●	●	●
D00	Direct mounting	●	—	—
D0	DIN rail mounting (Without DIN rail)	—	●	●

Pilot, Silencer type

Symbol	Pilot type Internal	Built-in silencer
Nil	●	—
S	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	ø8 One-touch fitting	●	—
C10	ø10 One-touch fitting	—	●
00	Plug	●	●

For EX120

25A-JSY[3]1M-1P-14A[ ]-[C10][ ]

Series

1	JSY1000
3	JSY3000

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

Pilot, Silencer type

Symbol	Pilot type Internal	Built-in silencer
Nil	●	—
S	●	●

P, E port size (One-touch fittings)

Symbol	P, E port	JSY1000	JSY3000
C8	ø8 One-touch fitting	●	—
C10	ø10 One-touch fitting	—	●
00	Plug	●	●

∗ Refer to page 25 for clamp bracket part numbers.

How to Order Pilot Valves

25A − V112 □ − 5 A

Rated voltage

5	24 VDC

Coil type

Nil	Standard
T	With power-saving circuit

Pilot cover

25A − SY30V − 25AS **(For 25A-JSY3000)**

∗ The pilot valve of the 25A-JSY1000 series cannot be replaced.

Type 40
Side Ported

Non Plug-in Metal Base
25A-JSY1000/3000 Series

Internal Pilot

*1 JSY3000 only

How to Order Manifolds

25A-JJ5SY 3 - 40 - 05 D - C6 ☐

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻

❶ Series

1	JSY1000
3	JSY3000

❷ Type

40	Side ported

❸ Valve stations

Symbol	Stations
02	2 stations
⋮	⋮
20	20 stations

❹ P, E port entry

U	U side*1
D	D side*1
B	Both sides

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

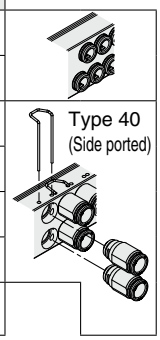
❺ A, B port size

Thread piping

Symbol	A, B port	JSY1000	JSY3000
M3	M3 x 0.5	●	—
M5	M5 x 0.8	●	●
01	1/8	—	●

One-touch fitting (Metric)

	Symbol	A, B port	JSY1000	JSY3000
Fixed	C4	ø4	●	—
	C6	ø6	—	●
Replaceable	KC4	ø4	●	●
	KC6	ø6	●	●
	KC8	ø8	—	●
	M*1	A, B ports mixed	—	●
P, E port size (Thread piping)			1/8	1/4



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

❻ Thread type

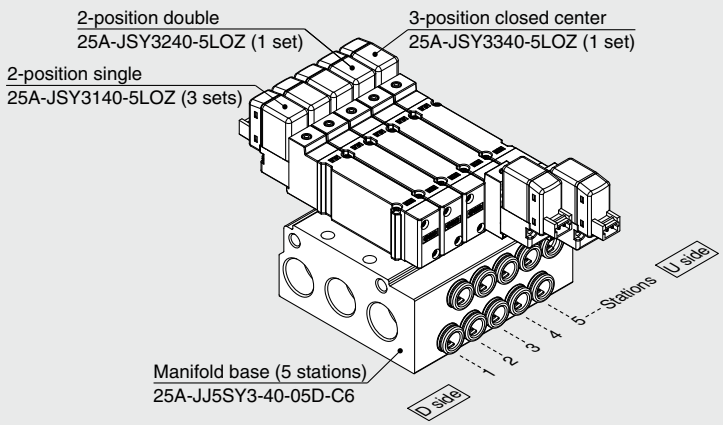
Nil	Rc

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Manifold Assembly

Example (25A-JJ5SY3-40-☐)



25A-JJ5SY3-40-05D-C6 ··1 set (Type 40 5-station manifold base part no.)
*** 25A-JSY3140-5LOZ ·····3 sets (2-position single part no.)**
*** 25A-JSY3240-5LOZ ·····1 set (2-position double part no.)**
*** 25A-JSY3340-5LOZ ·····1 set (3-position closed center part no.)**
The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.

- 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.

Internal Pilot

How to Order Valves (With two mounting screws)

25A-JSY 3 1 4 0 □ -5 □ Z □

❶ ❷ ❸ ❹ ❺ ❻

● Series compatible with secondary batteries

❶ Series

1	JSY1000
3	JSY3000

❷ Type of actuation

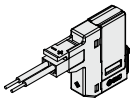
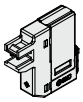
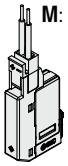
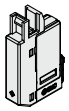
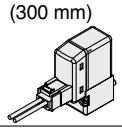
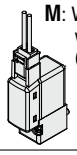
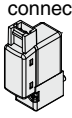
1	2-position	Single
2		Double
3	3-position	Closed center
4		Exhaust center
5		Pressure center
A	4-position dual 3-port	N.C./N.C.
B		N.O./N.O.
C		N.C./N.O.

❸ Coil specifications

Symbol	Coil specifications	JSY1000	JSY3000
Nil	Standard	—	●
T	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.

❹ Electrical entry

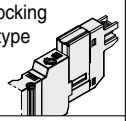
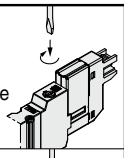
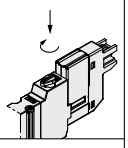
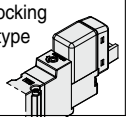
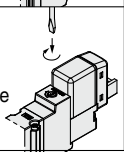
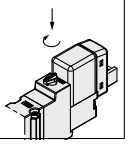
	L plug connector		M plug connector	
	L	LO	M	MO
JSY1000	L: With lead wire (300 mm) 	LO: Without connector 	M: With lead wire (300 mm) 	MO: Without connector 
JSY3000	L: With lead wire (300 mm) 	LO: Without connector	M: With lead wire (300 mm) 	MO: Without connector 

∗ Refer to the **Web Catalog** for the lead wire length of L and M plug connectors.

❺ Light/surge voltage suppressor

Z	With light/surge voltage suppressor

❻ Manual override

JSY1000	Nil: Non-locking push type 	D: Push-turn locking slotted type 	E: Push-turn locking lever type 
JSY3000	Nil: Non-locking push type 	D: Push-turn locking slotted type 	E: Push-turn locking lever type 

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

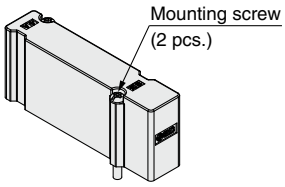
For details, refer to the Web Catalog.

⚠ Caution

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

25A-JSY1000/3000 Series
Manifold Options

■ **Blanking plate assembly**
(With two mounting screws)
Used when valve additions are expected or for maintenance. A structure is in place on the blanking plate to prevent the mounting screws from sliding.



How to Order Blanking Plate Assembly

25A – JSY [3] 1M – 26 – 1A

Series

1	JSY1000
3	JSY3000

Valve Mounting Screw Part No.

Description	Part no.		Note
	25A-JJ5SY1	**25A-JJ5SY3**	
Round head combination screw	**25A-JSY11V-23-4A**	**25A-JSY31V-23-4A**	Part numbers shown on the left are for 10 valves. (20 pcs.)

One-touch Fittings Part Nos.

Port size			25A-JSY1000	25A-JSY3000
A, B port	Metric size	ø4 One-touch fitting (Straight type)	**25A-KQSY10-C4-X1336**	**25A-KQSY30-C4**
		ø6 One-touch fitting (Straight type)	**25A-KQSY11-C6-X1336**	**25A-KQSY30-C6**
		ø8 One-touch fitting (Straight type)	—	**25A-KQSY30-C8-X1336**

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting Straight type

25A – JSY [3] 1M – [38] – 1A – [C6]

Series

1	JSY1000
3	JSY3000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port	JSY1000	JSY3000
C4	ø4 One-touch fitting	●	—
C6	ø6 One-touch fitting	—	●

Part numbers of mounting screw (2 pcs. of each)

JSY1000: 25A-JSY11V-23-5A
JSY3000: 25A-JSY31V-23-5A

How to Order Pilot Valves

For 25A-JSY3000

25A – V111 [ ] – 5 [L] Z

Coil type

Nil	Standard
T	With power-saving circuit (Made to Order)

Rated voltage

5	24 VDC

Light/surge voltage suppressor

Z	With light/surge voltage suppressor

Electrical entry

L	L plug connector	With lead wire
LO		Without connector
M	M plug connector	With lead wire
MO		Without connector

∗ For the 25A-JSY1000, the pilot valve is the same as that of the standard model.

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

D-sub Connector

25A-SY5000/7000 Series

RoHS

How to Order Manifolds

25A–SS5Y 5 – 10 F 1 – 05 U ☐ – C6 ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

• Series compatible with secondary batteries

❶ Series

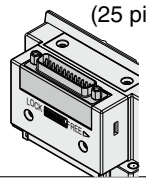
5	SY5000
7	SY7000

❷ Type

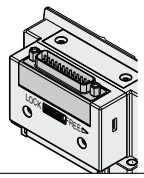
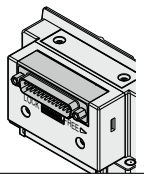
10	Side ported
11	Bottom ported

❸ Connector type

F: D-sub connector (25 pins)



❹ Connector entry direction

1: Upward	2: Lateral
	

❺ Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
12	12 stations	
02	2 stations	Specified layout*2 (Up to 24 solenoids available)
⋮	⋮	
24	24 stations	

*1 Double wiring: 2-position single, 2-position 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.)

* The blanking plate assembly is included in this number.

❻ P, E port entry

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

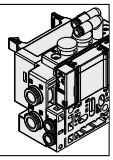
❼ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

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

❽ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
			SY5000	SY7000	SY5000	SY7000
C4	Straight	ø4	●	—	●	—
C6		ø6	●	●	●	●
C8		ø8	●	●	●	●
C10		ø10	—	●	—	●
C12		ø12	—	●	—	●
CM*1		Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)			ø10	ø12	ø10	ø12



*1 Indicate the sizes on the manifold specification sheet for "CM."

* The direction of P, E port fittings is the same as for the A, B port.

❾ Mounting

Symbol	Mounting	Option	
		Name plate	Station number
Nil	Direct mounting	—	—
AA		●	●
BA		●	—
D☐	DIN rail mounting	—	—
A☐		●	●
B☐		●	—

DIN Rail Option

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
⋮	⋮	
24	For 24 stations	

* Enter the number of stations inside ☐ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" above.)

* Only direct mounting is available for the type 11 bottom-ported type.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A-SY 5 1 0 0 □ □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- 25A: Series compatible with secondary batteries
- 0: Base mounted

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

∗ When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the **Web Catalog**.

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

5	24 VDC
6	12 VDC

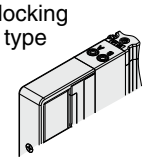
❾ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

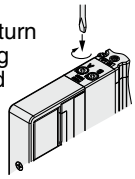
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❿ Manual override

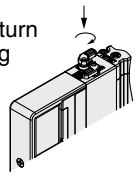
Nil: Non-locking push type



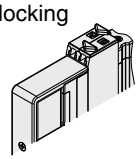
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Plug-in Connector Connecting Base

D-sub Connector

Type 12 Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A-SS5Y 5 -12 F 1 - 05 U ☐ - ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼

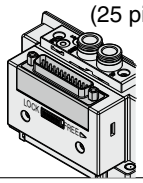
- **Series compatible with secondary batteries**

❶ Series

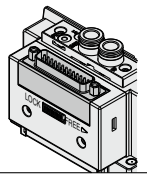
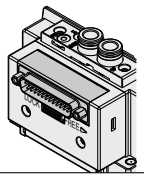
5	SY5000
7	SY7000

❷ Connector type

F: D-sub connector (25 pins)



❸ Connector entry direction

1: Upward	**2**: Lateral
	

❹ Valve stations

F: D-sub connector (25 pins)

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
12	12 stations	
02	2 stations	Specified layout∗2 (Up to 24 solenoids available)
⋮	⋮	
24	24 stations	

∗1 Double wiring: 2-position single, 2-position 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.)

∗ The blanking plate assembly is included in this number.

❺ P, E port entry

U∗1	U side (2 to 10 stations)
D∗1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

∗1 ❻ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

❻ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

∗ The P and E ports are only available on the U and D sides for the built-in silencer type. The 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.)

❼ Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D24	For 24 stations	

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A-SY 5 1 3 0 □ □ □ - 5 □ □ 1 - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❺ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❻ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❼ Rated voltage

5	24 VDC
6	12 VDC

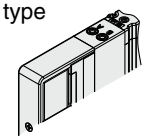
❽ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

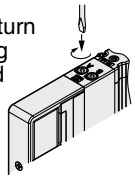
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❾ Manual override

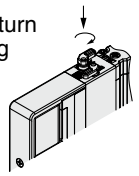
Nil: Non-locking push type



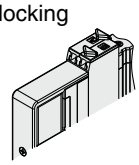
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓫ Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Terminal Block Box

25A-SY5000/7000 Series

RoHS

How to Order Manifolds

25A- SS5Y 5 - 10 T - 05 U □ - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼

- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type

10	Side ported
11	Bottom ported

❸ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
10	10 stations	
02	2 stations	Specified layout*2 (Up to 20 solenoids available)
⋮	⋮	
20	20 stations	

*1 Double wiring: 2-position single, 2-position 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.)

* The blanking plate assembly is included in this number.

❹ P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 20 stations)

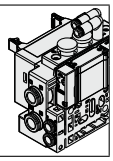
❺ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

* 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.

❻ A, B port size (Metric)

Symbol		A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
			SY5000	SY7000	SY5000	SY7000
C4	Straight	ø4	●	—	●	—
C6		ø6	●	●	●	●
C8		ø8	●	●	●	●
C10		ø10	—	●	—	●
C12		ø12	—	●	—	●
CM*1		Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)			ø10	ø12	ø10	ø12



*1 Indicate the sizes on the manifold specification sheet for "CM."
* The direction of P, E port fittings is the same as for the A, B port.

❼ Mounting

Symbol	Mounting	Option	
		Name plate	Station number
Nil	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
* Only direct mounting is available for the type 11 bottom-ported type.

DIN Rail Option

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
⋮	⋮	
20	For 20 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A-SY 5 1 0 0 □ □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Base mounted
- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

∗ When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the **Web Catalog**.

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

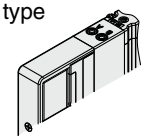
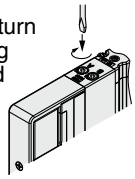
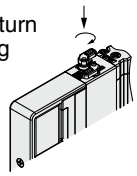
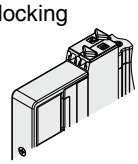
5	24 VDC
6	12 VDC

❾ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

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

❿ Manual override

Nil: Non-locking push type 	**D**: Push-turn locking slotted type 
E: Push-turn locking lever type 	**F**: Slide locking type 

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Type 12
Top Ported

Plug-in Connector Connecting Base

Terminal Block Box

25A-SY5000/7000 Series

How to Order Manifolds

25A- SS5Y [5] -12T- [05] [U] [ ] - [ ]

❶ ❷ ❸ ❹ ❺

- **Series compatible with secondary batteries**

❶ Series

5	SY5000
7	SY7000

❸ P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 20 stations)

*1 ❹ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

❷ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
10	10 stations	
02	2 stations	Specified layout*2 (Up to 20 solenoids available)
⋮	⋮	
20	20 stations	

*1 Double wiring: 2-position single, 2-position 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.)

* The blanking plate assembly is included in this number.

❹ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

* The P and E ports are only available on the U and D sides for the built-in silencer type. The 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.)
* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

❺ Mounting

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

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A- SY 5 1 3 0 □ □ □ - 5 □ □ 1 - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

- Top ported
- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❺ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❻ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❼ Rated voltage

5	24 VDC
6	12 VDC

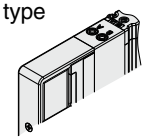
❽ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

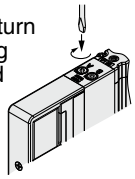
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❾ Manual override

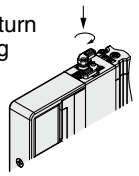
Nil: Non-locking push type



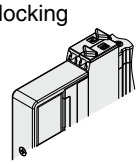
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓫ Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

Lead Wire

25A-SY5000/7000 Series

How to Order Manifolds

25A-SS5Y 5 - 10 L1 1 - 05 U □ - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type

10	Side ported
11	Bottom ported

❸ Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

❹ Lead wire length

1	0.6 m
2	1.5 m
3	3 m

❺ Valve stations

(L1□)

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

(L2□)

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

(L3□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
04	4 stations	
02	2 stations	Specified layout*2 (Up to 8 solenoids available)
⋮	⋮	
08	8 stations	

*1 Double wiring: 2-position single, 2-position 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.)
* The blanking plate assembly is included in this number.

❻ P, E port entry

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

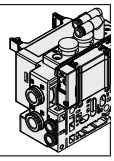
❼ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

* 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.

❽ A, B port size (Metric)

Symbol		A, B port	Type 10/Side ported SY5000	Type 10/Side ported SY7000	Type 11/Bottom ported SY5000	Type 11/Bottom ported SY7000
C4	Straight	ø4	●	—	●	—
C6	Straight	ø6	●	●	●	●
C8	Straight	ø8	●	●	●	●
C10	Straight	ø10	—	●	—	●
C12	Straight	ø12	—	●	—	●
CM*1	Straight	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)			ø10	ø12	ø10	ø12



*1 Indicate the sizes on the manifold specification sheet for "CM."
* The direction of P, E port fittings is the same as for the A, B port.

❾ Mounting

Symbol	Mounting	Option: Name plate	Option: Station number
Nil	Direct mounting	—	—
AA	Direct mounting	●	●
BA	Direct mounting	●	—
D□	DIN rail mounting	—	—
A□	DIN rail mounting	●	●
B□	DIN rail mounting	●	—

* Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
* Only direct mounting is available for the type 11 bottom-ported type.

DIN Rail Option

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
⋮	⋮	
24	For 24 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A-SY 5 1 0 0 □ □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Base mounted
- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

∗ When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the **Web Catalog**.

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

5	24 VDC
6	12 VDC

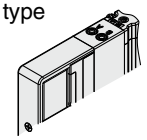
❾ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

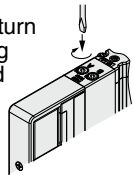
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❿ Manual override

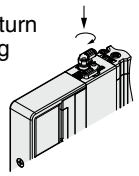
Nil: Non-locking push type



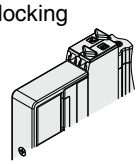
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Type 12
Top Ported

Plug-in Connector Connecting Base

Lead Wire

25A-SY5000/7000 Series

RoHS

How to Order Manifolds

25A- SS5Y [5] -12 [L1] [1] - [05] [U] [ ] - [ ]

❶ ❷ ❸ ❹ ❺ ❻ ❼

- 25A: Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Number of cores (Lead wire)

L1	34 cores
L2	17 cores
L3	9 cores

❸ Lead wire length

1	0.6 m
2	1.5 m
3	3 m

❹ Valve stations

(L1□)

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

(L3□)

Symbol	Stations	Note
02	2 stations	Double wiring*1
⋮	⋮	
04	4 stations	
02	2 stations	Specified layout*2 (Up to 8 solenoids available)
⋮	⋮	
08	8 stations	

(L2□)

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

*1 Double wiring: 2-position single, 2-position 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.)
* The blanking plate assembly is included in this number.

❺ P, E port entry

U*1	U side (2 to 10 stations)
D*1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

*1 ❻ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

❻ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

* The P and E ports are only available on the U and D sides for the built-in silencer type. The 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.)
* When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

❼ Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D24	For 24 stations	

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valves (With mounting screw)

25A – SY 5 1 3 0 □ □ □ – 5 □ □ 1 – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❺ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❻ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❼ Rated voltage

5	24 VDC
6	12 VDC

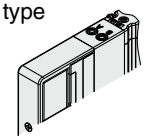
❽ Light/surge voltage suppressor and common specification

Nil	Without light/surge voltage suppressor (Non-polar)
R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

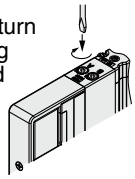
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❾ Manual override

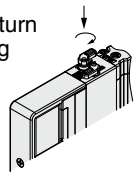
Nil: Non-locking push type



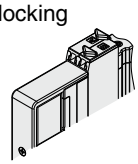
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓫ Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX260

25A-SY5000/7000 Series

How to Order Manifolds

25A-SS5Y [5]-[10]S[NAN]-[05][U][ ]-[C6][ ]

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

- 25A: Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type

10	Side ported
11	Bottom ported

❸ SI unit specifications

(Output polarity, Protocol, Number of outputs, Communication connector)

Symbol (Output polarity) Positive common (NPN)	Negative common (PNP)	Protocol	Number of outputs	Communication connector
0		Without SI unit		
QA	QAN	DeviceNet®	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
—	KAN	IO-Link	32	M12

∗ 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.
∗ DIN rail cannot be mounted without SI unit.
∗ For IO-Link, only the negative common (PNP) type and the 32 outputs type are available.

❹ 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	Specified layout∗2 (Up to 32 solenoids available)
⋮	⋮	
24	24 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout∗2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

∗1 Double wiring: 2-position single, 2-position 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.)
∗ The blanking plate assembly is included in this number.
∗ For the model 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.

❺ P, E port entry

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

❻ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

∗ 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.

❽ Mounting

Symbol	Mounting	Option: Name plate	Station number
Nil	Direct mounting	—	—
AA		●	●
BA		●	—
D□	DIN rail mounting	—	—
A□		●	●
B□		●	—

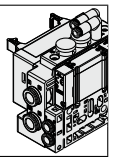
∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
∗ Only direct mounting is available for the type 11 bottom-ported type.

DIN Rail Option

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
⋮	⋮	
24	For 24 stations	

❼ A, B port size (Metric)

Symbol		A, B port	Type 10/Side ported SY5000	Type 10/Side ported SY7000	Type 11/Bottom ported SY5000	Type 11/Bottom ported SY7000
C4	Straight	ø4	●	—	●	—
C6		ø6	●	●	●	●
C8		ø8	●	●	●	●
C10		ø10	—	●	—	●
C12		ø12	—	●	—	●
CM∗1		Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)			ø10	ø12	ø10	ø12



∗1 Indicate the sizes on the manifold specification sheet for "CM."

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Valves (With mounting screw)

25A- SY 5 1 0 0 □ □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Series compatible with secondary batteries
- Base mounted

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

∗ When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the **Web Catalog**.

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

5	24 VDC

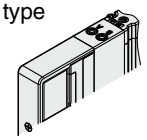
❾ Light/surge voltage suppressor and common specification

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

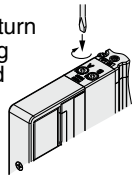
∗ Select "R," "U," "S," or "Z" for the valve when the SI unit output polarity is positive common. Select "R," "U," "NS," or "NZ" for the valve when the SI unit output polarity is negative common.
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❿ Manual override

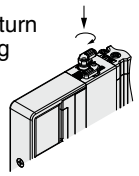
Nil: Non-locking push type



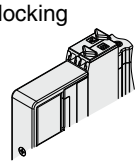
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊕)

Plug-in Connector Connecting Base

EX260

Type 12
Top Ported

25A-SY5000/7000 Series

How to Order Manifolds

25A- SS5Y [5] -12S [NAN] -[05] [U] [ ] -[ ]

❶ ❷ ❸ ❹ ❺ ❻

- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ SI unit specifications

(Output polarity, Protocol, Number of outputs, Communication connector)

Symbol (Output polarity) Positive common (NPN)	Negative common (PNP)	Protocol	Number of outputs	Communication connector
0		Without SI unit		
QA	QAN	DeviceNet®	32	M12
QB	QBN		16	
NA	NAN	PROFIBUS DP	32	M12
NB	NBN		16	
VA	VAN	CC-Link	32	M12
VB	VBN		16	
DA	DAN	EtherCAT	32	M12
DB	DBN		16	
FA	FAN	PROFINET	32	M12
FB	FBN		16	
EA	EAN	EtherNet/IP™	32	M12
EB	EBN		16	
—	KAN	IO-Link	32	M12

∗ 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.
∗ DIN rail cannot be mounted without SI unit.
∗ For IO-Link, only the negative common (PNP) type and the 32 outputs type are available.

❸ 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	Specified layout∗2 (Up to 32 solenoids available)
⋮	⋮	
24	24 stations	

In the case of the 16-output SI unit

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout∗2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

∗1 Double wiring: 2-position single, 2-position 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.)
∗ The blanking plate assembly is included in this number.
∗ For the model 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.

❹ P, E port entry

U∗1	U side (2 to 10 stations)
D∗1	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

∗1 ❺ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

❺ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

∗ The P and E ports are only available on the U and D sides for the built-in silencer type. The 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.)
∗ When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.

❻ Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D24	For 24 stations	

∗ If the DIN rail must be mounted without an SI unit, select D0. Then, refer to L3 of the dimensions for the DIN rail length and order separately.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Valves (With mounting screw)

25A- SY 5 1 3 0 ☐ ☐ ☐ - 5 ☐ ☐ 1 - C6 ☐

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

- Top ported
- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❺ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❻ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❼ Rated voltage

5	24 VDC

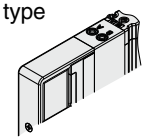
❽ Light/surge voltage suppressor and common specification

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)
NS	With surge voltage suppressor (Negative common)
NZ	With light/surge voltage suppressor (Negative common)

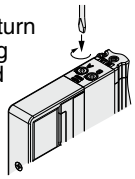
∗ Select "R," "U," "S," or "Z" for the valve when the SI unit output polarity is positive common. Select "R," "U," "NS," or "NZ" for the valve when the SI unit output polarity is negative common.
∗ Only "Z" and "NZ" types are available with a power-saving circuit.

❾ Manual override

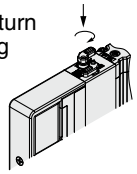
Nil: Non-locking push type



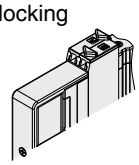
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓫ Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⚠ Protective class class Ⅲ (Mark: ⊞)

Type 10
Side Ported

Type 11
Bottom Ported

Plug-in Connector Connecting Base

EX126

25A-SY5000/7000 Series

How to Order Manifolds

25A–SS5Y 5 – 10 S4 V – 05 U □ – C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

• Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type

10	Side ported
11	Bottom ported

❸ SI unit

0	Without SI unit
V	CC-Link (Positive common NPN)

∗ Only a terminal block plate is mounted for the valve without SI unit.
For SI unit part numbers, refer to page 53.

❹ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout∗2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

∗1 Double wiring: 2-position single, 2-position 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.)
∗ The blanking plate assembly is included in this number.

❺ P, E port entry

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

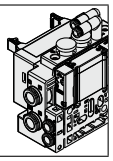
❻ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer
R	External pilot

∗ 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.

❼ A, B port (Metric)

Symbol		A, B port	Type 10/ Side ported		Type 11/ Bottom ported	
			SY5000	SY7000	SY5000	SY7000
C4	Straight	ø4	●	—	●	—
C6	Straight	ø6	●	●	●	●
C8	Straight	ø8	●	●	●	●
C10	Straight	ø10	—	●	—	●
C12	Straight	ø12	—	●	—	●
CM∗1	Straight	Straight port, mixed sizes	●	●	●	●
P, E port size (One-touch fittings)			ø10	ø12	ø10	ø12



∗1 Indicate the sizes on the manifold specification sheet for "CM."
∗ The direction of P, E port fittings is the same as for the A, B port.

❽ Mounting

Symbol	Mounting	Option: Name plate	Option: Station number
Nil	Direct mounting	—	—
AA	Direct mounting	●	●
BA	Direct mounting	●	—
D□	DIN rail mounting	—	—
A□	DIN rail mounting	●	●
B□	DIN rail mounting	●	—

∗ Enter the number of stations inside □ when it is larger than the number of valve stations. (Refer to "DIN Rail Option" below.)
∗ Only direct mounting is available for the type 11 bottom-ported type.

DIN Rail Option

Nil	Direct mounting	
0	Without DIN rail (with bracket)	
3	For 3 stations	Specify a longer rail than the total length of specified stations.
⋮	⋮	
16	For 16 stations	

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

For details on the EX126 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 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Valves (With mounting screw)

25A- SY 5 1 0 0 □ □ □ □ - 5 □ □ 1

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

- Base mounted
- Series compatible with secondary batteries

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

∗ When selecting the external pilot specification for the 4-position dual 3-port valve, pay attention to the pilot pressure. For details, refer to the valve specifications of the standard SY series product in the **Web Catalog**.

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

5	24 VDC

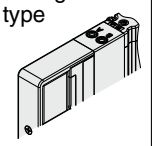
❾ Light/surge voltage suppressor and common specification

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)

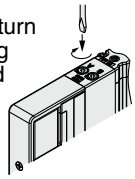
∗ Only "Z" type is available with a power-saving circuit.

❿ Manual override

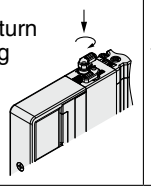
Nil: Non-locking push type



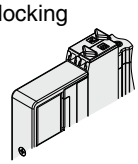
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Type 12
Top Ported

Plug-in Connector Connecting Base

EX126

25A-SY5000/7000 Series

How to Order Manifolds

25A – SS5Y [5] – 12S4 [V] – [05] [U] [ ] – [ ]

❶ ❷ ❸ ❹ ❺ ❻

• **Series compatible with secondary batteries**

❶ Series

5	SY5000
7	SY7000

❷ SI unit

0	Without SI unit
V	CC-Link (Positive common NPN)

∗ Only a terminal block plate is mounted for the valve without SI unit.
For SI unit part numbers, refer to page 53.

❸ Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring∗1
⋮	⋮	
08	8 stations	
02	2 stations	Specified layout∗2 (Up to 16 solenoids available)
⋮	⋮	
16	16 stations	

∗1 Double wiring: 2-position single, 2-position 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.)

∗ The blanking plate assembly is included in this number.

❹ P, E port entry

U∗1	U side (2 to 10 stations)
D∗1	D side (2 to 10 stations)
B	Both sides (2 to 16 stations)

∗1 ❺ For type "S," SUP/EXH block assembly with a built-in silencer, choose "U" or "D" for P port entry.

❺ SUP/EXH block assembly

Nil	Internal pilot
S	Internal pilot, Built-in silencer

∗ The P and E ports are only available on the U and D sides for the built-in silencer type. The 3/5(E) port is plugged. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.)

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

❻ Mounting

Nil	Direct mounting	
D	DIN rail mounting (With DIN rail)	
D0	DIN rail mounting (Without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
⋮	⋮	
D16	For 16 stations	

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

For details on the EX126 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 53 in this catalog. Please download the Operation Manual via the SMC website: https://www.smcworld.com

How to Order Valves (With mounting screw)

25A- SY 5 1 3 0 □ □ □ - 5 □ □ 1 - C6 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫

- Series compatible with secondary batteries
- Top ported

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

❸ Seal type

0	Rubber seal

❹ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❺ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❻ Coil type

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

∗ Be sure to select the power-saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power-saving circuit is selected. For details, refer to the standard product catalog.

❼ Rated voltage

5	24 VDC

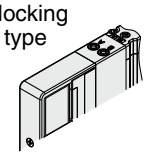
❽ Light/surge voltage suppressor and common specification

R	With surge voltage suppressor (Non-polar)
U	With light/surge voltage suppressor (Non-polar)
S	With surge voltage suppressor (Positive common)
Z	With light/surge voltage suppressor (Positive common)

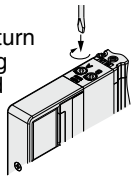
∗ Only "Z" type is available with a power-saving circuit.

❾ Manual override

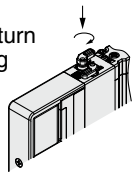
Nil: Non-locking push type



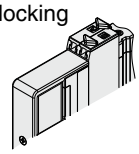
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



❿ A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓫ Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

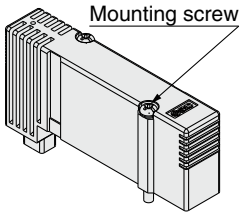
⚠Caution

Tightening torque for mounting screw
M3: 0.8 N·m

Manifold Options

■Blanking plate assembly

(With mounting screw)
Used when valve additions are expected or for maintenance. A structure is in place on the blanking plate to prevent the mounting screws from sliding.



25A-SY50M-26-1A

How to Order Blanking Plate Assembly

25A-SY 5 0M-26- 1 A

Series

5	SY5000
7	SY7000

Base type

1	For plug-in connector connecting base

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

SI Unit Part Nos.

Description	SI unit part no.	Note
EX260 SI unit	**EX260-SPR1-X117**	PROFIBUS DP M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPR2-X117	PROFIBUS DP M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPR3-X117	PROFIBUS DP M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPR4-X117	PROFIBUS DP M12 connector, 16 outputs, Positive common (NPN)
	EX260-SDN1-X117	DeviceNet® M12 connector, 32 outputs, Negative common (PNP)
	EX260-SDN2-X117	DeviceNet® M12 connector, 32 outputs, Positive common (NPN)
	EX260-SDN3-X117	DeviceNet® M12 connector, 16 outputs, Negative common (PNP)
	EX260-SDN4-X117	DeviceNet® M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEC1-X117	EtherCAT M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEC2-X117	EtherCAT M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEC3-X117	EtherCAT M12 connector, 16 outputs, Negative common (PNP)
	EX260-SEC4-X117	EtherCAT M12 connector, 16 outputs, Positive common (NPN)
	EX260-SMJ1-X117	CC-Link M12 connector, 32 outputs, Negative common (PNP)
	EX260-SMJ2-X117	CC-Link M12 connector, 32 outputs, Positive common (NPN)
	EX260-SMJ3-X117	CC-Link M12 connector, 16 outputs, Negative common (PNP)
	EX260-SMJ4-X117	CC-Link M12 connector, 16 outputs, Positive common (NPN)
	EX260-SPN1-X117	PROFINET M12 connector, 32 outputs, Negative common (PNP)
	EX260-SPN2-X117	PROFINET M12 connector, 32 outputs, Positive common (NPN)
	EX260-SPN3-X117	PROFINET M12 connector, 16 outputs, Negative common (PNP)
	EX260-SPN4-X117	PROFINET M12 connector, 16 outputs, Positive common (NPN)
	EX260-SEN1-X117	EtherNet/IP™ M12 connector, 32 outputs, Negative common (PNP)
	EX260-SEN2-X117	EtherNet/IP™ M12 connector, 32 outputs, Positive common (NPN)
	EX260-SEN3-X117	EtherNet/IP™ M12 connector, 16 outputs, Negative common (PNP)
	EX260-SEN4-X117	EtherNet/IP™ M12 connector, 16 outputs, Positive common (NPN)
	EX260-SIL1-X117	IO-Link M12 connector, 32 outputs, Negative common (PNP)
EX126 SI unit	**EX126D-SMJ1-X220**	CC-Link (Terminal block, 16 outputs, Positive common (NPN))

Valve Mounting Screw Part No.

Description	Part no.		Note
	SY5000	**SY7000**	
Round head combination screw	**SY5000-223-1A**	**SY7000-224-1A**	Part numbers shown on the left are for 10 valves. (SY5000: 20 pcs./SY7000: 30 pcs.)

One-touch Fittings Part Nos.

Port size			25A-SY5000	25A-SY7000
A, B port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**	—
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**	**25A-KJH06-17-X1607**
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**	**90-VVQ2000-51A-C8**
		ø10 One-touch fitting (Straight type)	—	**90-VVQ2000-51A-C10**
		ø12 One-touch fitting (Straight type)	—	**25A-KQ2H12-17-X1607**
P, E port	Metric size	ø10 One-touch fitting (Straight type)	**90-VVQ2000-51A-C10**	—
		ø12 One-touch fitting (Straight type)	—	**90-VVQ4000-50B-C12**

Manifold Options

How to Order Individual SUP/EXH Spacer Assembly

One-touch fitting Straight type

25A − SY 5 0M − 38 − 1 A − C6

Series

5	SY5000
7	SY7000

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Port size (Metric)

Symbol	P, E port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

Part numbers of mounting screw
SY5000: SY5000-223-2A (2 pcs. of each)
SY7000: SV1000-136-12A (3 pcs. of each)

How to Order Individual SUP/EXH Block Assembly

One-touch fitting Straight type

25A − SY 5 0M − 78 − 1 A − C6

Series

5	SY5000
7	SY7000

Block type

78	Individual SUP block
79	Individual EXH block

Port size (Metric)

Symbol	P, E port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

Manifold Parts Nos.

Ⓐ Manifold block assembly

25A − SY 5 0M − 2 − 1 D A − C6

Series

5	SY5000
7	SY7000

Piping direction

1	Side/Top ported
2	Bottom ported

Wiring type

S	Single wiring
D	Double wiring

A, B port size (One-touch fittings)

Symbol	A, B port	SY5000	SY7000	Note
C4	ø4	●	—	Side/Bottom ported Metric size
C6	ø6	●	●	
C8	ø8	●	●	
C10	ø10	—	●	
C12	ø12	—	●	
00	Plug	●	●	Top ported

Ⓑ SUP/EXH block assembly

①D-sub connector <IP40>

25A − SY 5 0M − 1 − 11 A □ 1 − C10 − □

Series

5	SY5000
7	SY7000

SUP/EXH block assembly

11	D-sub connector <IP40>

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Pilot type External	Built-in silencer	Piping direction
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●*1	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

*1 For silencer (supply side) E port is plugged.

Connector entry direction

1	Upward
2	Lateral

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is nil.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00*2	Plug	●	●	P/E port entry on one side or Top ported

*2 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

②Terminal block box

25A − SY 5 0M − 1 − 1A □ − C10 − □

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Pilot type External	Built-in silencer	Piping direction
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●*3	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

*3 For silencer (supply side) E port is plugged.

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is nil.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00*4	Plug	●	●	P/E port entry on one side or Top ported

*4 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Terminal block box housing assembly

25A − VVQC1000 − T0 − 1

Clamp bracket assembly for terminal block box

25A − SY30M − 15 − 6A

* Part number is for one assembly.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

Manifold Parts Nos.

③Lead wire

25A − SY 5 0M − 1 − 1A □ − C10 − □

Series

5	SY5000
7	SY7000

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

∗ For the bottom-ported type, the symbol is nil.

Pilot, Silencer/Piping type

Symbol	Pilot type		Built-in silencer	Piping direction
	Internal	External		
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●∗1	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

∗1 For silencer (supply side) E port is plugged.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00∗2	Plug	●	●	P/E port entry on one side or Top ported

∗2 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Lead wire connector block assembly

25A − SY30M − 14 − 4A − □ − □

Number of cores

1	34
2	17
3	9

Lead wire length [m]

1	0.6
2	1.5
3	3

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

∗ Part number is for one assembly.

④EX126

25A − SY 5 0M − 1 − 1A □ − C10 − □

Series

5	SY5000
7	SY7000

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

∗ For the bottom-ported type, the symbol is nil.

Pilot, Silencer/Piping type

Symbol	Pilot type		Built-in silencer	Piping direction
	Internal	External		
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●∗3	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

∗3 For silencer (supply side) E port is plugged.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00∗4	Plug	●	●	P/E port entry on one side or Top ported

∗4 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Terminal block plate assembly

25A − VVQC1000 − 74A − 2

Clamp bracket assembly for EX126 SI unit

25A − SY30M − 15 − 6A

∗ Part number is for one assembly.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

∗ Part number is for one assembly.

Manifold Parts Nos.

⑤**EX260**

25A − SY [5] 0M − 1 − 1A [ ] − [C10] − [ ]

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type		Built-in silencer	Piping direction
	Internal	External		
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●*5	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

*5 For silencer (supply side) E port is plugged.

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is nil.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00*6	Plug	●	●	P/E port entry on one side or Top ported

*6 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

Clamp bracket assembly

Series	Part no.
25A-SY5000/7000	25A-SY50M-15-3A

* Part number is for one assembly.

Manifold Parts Nos.

ⒸSUP/EXH block assembly

25A − SY [5] 0M − 3 − 1A [ ] − [C10] − [ ]

Series

5	SY5000
7	SY7000

Pilot, Silencer/Piping type

Symbol	Pilot type Internal	Pilot type External	Built-in silencer	Piping direction
Nil	●	—	—	Side
S	●	—	●	
R	—	●	—	
V	●	—	—	Top
VP	●	—	●*1	
B	●	—	—	Bottom
BS	●	—	●	
BR	—	●	—	

*1 For silencer (supply side) E port is plugged.
* "B" for the bottom-ported type can be selected for the SY5000/7000 series.

Mounting

Nil	Direct mounting
D0	DIN rail mounting (Without DIN rail)

* For the bottom-ported type, the symbol is nil.

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000	Note
C10	ø10	●	—	Side/Bottom/Top ported Metric size
C12	ø12	—	●	
00*2	Plug	●	●	P/E port entry on one side or Top ported

*2 It can be selected only if no symbol or "S" or "V" or "B" is selected for the pilot and the piping.

■ Cover assembly/Silencer cover assembly/Port block assembly for SUP/EXH (end) block assembly

Cover assembly
(Internal pilot)

25A − SY [5] 0M − 4 − 1 A

Silencer cover assembly
(Internal pilot, Built-in silencer)

25A − SY [5] 0M − 5 − 1 A

Port block assembly
(Side ported, External pilot)

25A − SY [5] 0M − 6 − 1 AR [ ] − 00 [ ]

A, B port One-touch fittings piping direction

Nil	Straight (Side ported)

X, PE port One-touch fitting type

Symbol	X, PE port		SY5000	SY7000
Nil	Metric size	ø4	●	—
		ø6	—	●

Port block assembly
(Top ported, Internal pilot, for silencer (supply side))

25A − SY [5] 0M − 6 − 3 AV − [C10]

Port block assembly
(Top ported, Internal pilot)

25A − SY [5] 0M − 6 − 1 A [ ] V − [C10]

Series

5	SY5000
7	SY7000

Pilot type

Nil	Internal pilot

P, E port size (One-touch fittings)

Symbol	P, E port	SY5000	SY7000
C10	ø10	●	—
C12	ø12	—	●

■ Name plate bracket assembly (For SY5000 only)

25A − SY50M − 85 − 1A

25A-SY5000/7000 Series
Valve Replacement Parts

How to Order Pilot Valves

25A – V112 □ □ – 5 A

Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

Rated voltage

5	24 VDC
6	12 VDC

Coil type

Nil	Standard
T	With power-saving circuit (Made to Order)

Pilot cover

25A – SY50V – 25A

How to Order Port Block Assembly

25A – SY □ 0V – 6A □ – □ – □ □

Series

5	5000
7	7000

Pilot type

Nil	Internal pilot

Option for mounting

Nil	Standard (Valve mounting screw without drop prevention)
1	Drop prevention type valve mounting screw

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	**SY7000**

Metric size (One-touch fitting)

Symbol	Port size	Applicable series	
		SY5000	**SY7000**
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

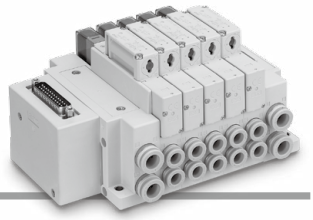
Body Cover Assembly

∗ Used when the top-ported type is changed to the side or bottom-ported type

Series		Part no.	
		Standard (Valve mounting screw without drop prevention)	Drop prevention type valve mounting screw
SY5000	Internal pilot	25A-SY50V-16A	25A-SY50V-16A-1
	External pilot	25A-SY50V-16AR	25A-SY50V-16AR-1
SY7000	Internal pilot	25A-SY70V-16A	25A-SY70V-16A-1
	External pilot	25A-SY70V-16AR	25A-SY70V-16AR-1

∗ The part number is not indicated on the product.

25A-SY5000/7000 Series
With Residual Pressure Release Valve



How to Order (With mounting screw)

25A-SY 5 3 0 0 ❶ ❷ ❸ - 5 ❹ ❺ ❻ 1 - E

Series

5	SY5000
7	SY7000

Type of actuation

3	3-position closed center*1

*1 Only the closed center type is available.

Base mounted
(The top-ported type is not available.)

With residual pressure release valve

E	With residual pressure release valve*2

*2 Mounting screw types, hexagon socket head cap screw B and drop prevention type K, H are not available.

⚠ Protective class class Ⅲ (Mark: Ⅲ)

❶ Seal type

0	Rubber seal

❷ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❸ Coil type

Nil	Standard
T	With power saving circuit (Continuous duty type)

* Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.
* Be careful of the energizing time when the power saving circuit is selected. Refer to the **Web Catalog** for details.

❹ Rated voltage

5	24 VDC
6	12 VDC

* The applicable rated voltage varies depending on the manifold wiring type. Refer to the "How to Order Manifolds" pages.

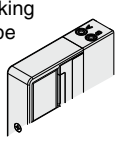
❺ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
Nil	—	—	Non-polar
R	—	●	
U	●		
S	—		Positive common
Z	●		
NS	—		Negative common
NZ	●		

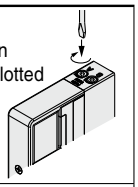
* Only "Z" and "NZ" types are available with a power saving circuit.

❻ Manual override

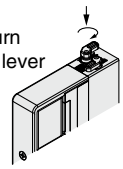
Nil: Non-locking push type



D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type

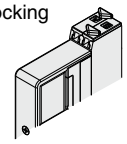


Table 1. Valve mounting screw

SY5000	SY7000
SY5000-221-9A (2 pcs.)	SY7000-221-14A (3 pcs.)

Made to Order

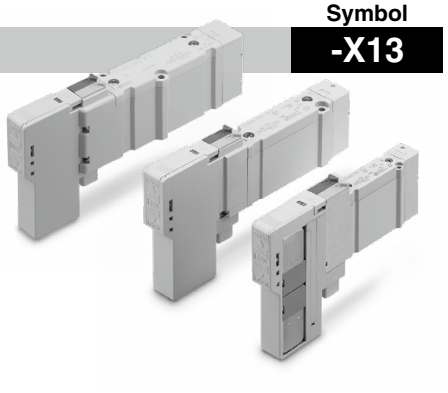
Please contact SMC for detailed dimensions, specifications, and lead times.

Made to Order

1 With Safety Slide Locking Manual Override

Symbol **-X13**

A safety lock is added to the slide locking manual override.



25A−SY 5/7 □ 00/3 □□□□−□□ G1−X13

- **Entry is the same as 25A-standard products. Specifications and performance are the same as standard products.**

2 2-Position Single Solenoid Valve with Built-in Return Spring

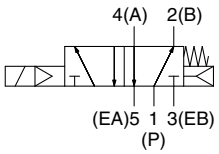
Symbol **-X350**

A 2-position single solenoid valve with a spring built into the main valve
The main valve returns to origin (the OFF position) via the spring when it is not pressurized.

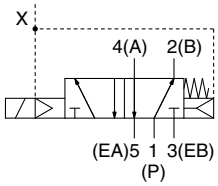
25A−SY 5/7 1 0/3 0 □□□□−□□ 1−X350

- **Entry is the same as 25A-standard products. Specifications and performance are the same as standard products.**

Internal pilot type



External pilot type



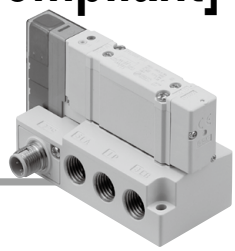
∗ For the external pilot type, exhaust the external pilot (X) port and the main pressure simultaneously.
If the main pressure cannot be exhausted due to the system specifications, please contact SMC separately.

∗ The manual option is only applicable to the non-locking push type.

25A-SY5000/7000 Series

Plug-in Single Unit/Sub-plate Type [IP67 Compliant]

(Side ported, Bottom ported, Top ported)



How to Order

In the case of (Valve) + (Sub-plate) (Built-in valve type part no.)

Side/Bottom ported: 25A-SY5100 ☐☐☐☐-5☐☐1 -W5-☐02☐

Top ported: 25A-SY5130 ☐☐☐☐-5☐☐1-02☐-W5-☐02☐

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭ ⓮ ⓯ ⓰

❶ Series

5	SY5000
7	SY7000

❷ Type of actuation

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

❸ Seal type

0	Rubber seal

❹ Pilot type

Nil	Internal pilot
R	External pilot

❺ Back pressure check valve (Built-in valve type)

Nil	None
H	Built-in

∗ The built-in valve type back pressure check valve is not available for the 3-position type or the SY7000.

❻ Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)

❼ Coil type

Nil	Standard
T	With power saving circuit (Continuous duty type)

∗ Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.
∗ Be careful of the energizing time when the power saving circuit is selected. For details, refer to the standard product catalog.

❽ Rated voltage

5	24 VDC
6	12 VDC

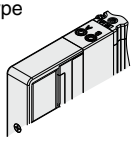
❾ Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
Nil	—	—	Non-polar
R	—	●	
U	●		
S	—		Positive common
Z	●		
NS	—		Negative common
NZ	●		

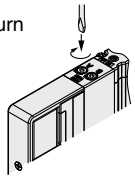
∗ Only "Z" and "NZ" types are available with a power saving circuit.

❿ Manual override

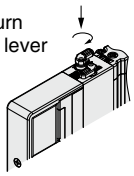
Nil: Non-locking push type



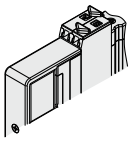
D: Push-turn locking slotted type



E: Push-turn locking lever type



F: Slide locking type



⓫ A, B port size (∗ Top-ported valve only)

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY7000

Metric size (One-touch fitting)

Symbol	A, B port	SY5000	SY7000
C4	ø4	●	—
C6	ø6	●	●
C8	ø8	●	●
C10	ø10	—	●
C12	ø12	—	●

⓬ A, B port thread type (Thread piping)

Nil	Rc
F	G

⓭ Wiring specifications (Sub-plate)

WO	Without M12 connector cable
W5	With M12 connector cable (3000 mm)

∗ When ordering a product with M12 connector cable, the connector cable is included.

⓮ Port location (Sub-plate)

Nil	Side ported
B	Bottom ported
V∗1	Top ported (1P, 5EA, 3EB port: Side ported)

∗1 Only available for the valve piping type "3" top ported

⓯ Port size (Sub-plate)

Symbol	Port size	Applicable series
02	1/4	SY5000
03	3/8	SY7000

⓰ Thread type (Sub-plate)

Nil	Rc
F	G

∗ The 25A- series specifications and dimensions are the same as those of the standard model.
∗ When mounting a special order (including Made-to-Order specification) valve or manifold option (spacer, etc.) on the sub-plate, add the valve part number or spacer part number under the sub-plate part number to place an order. For details, refer to the ordering example on page 61.

How to Order

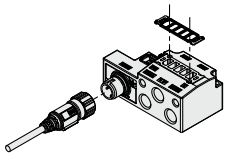
In the case of Sub-plate (Sub-plate single unit part no.)

∗ Without valve

25A – SY 5 0M – 27 – 1 – W5 – □ 02 □

❶ ❷ ❸ ❹ ❺

Series compatible with secondary batteries



∗ Base gasket is included.
∗ Valve mounting screws are not included.

❶ Series

5	SY5000
7	SY7000

❷ Wiring specifications

WO	Without M12 connector cable
W5	With M12 connector cable (3000 mm)

∗ Refer to the table below for connector cable part numbers.
∗ When ordering a product with M12 connector cable, the connector cable is included.

❸ Port location (Sub-plate)

Nil	Side ported
B	Bottom ported
V	Top ported [1(P), 5(EA), 3(EB) port: Side ported]

❹ Port size (Sub-plate)

Symbol	Port size	Applicable series
02	1/4	SY5000
03	3/8	SY7000

❺ Sub-plate thread type

Nil	Rc
F	G

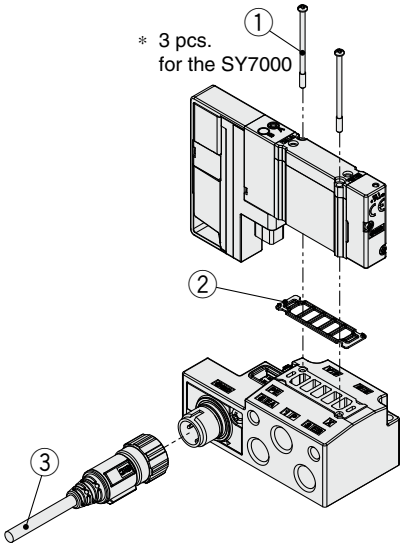
How to Order when mounting a special order (including Made-to-Order specification) valve on the sub-plate (Ordering example: X350)

25A-SY50M-27-1-W5-02 ····· 1 set (Sub-plate single unit part no.)
∗**25A-SY5100-5U1-X350** ····· 1 set (Built-in return spring specification)

Ordering example when mounting a manifold option (spacer, etc.)

25A-SY50M-27-1-W5-02 ····· 1 set (Sub-plate single unit part no.)
∗**25A-SY5400-5U1** ····· 1 set (3-position exhaust center part no.)
∗**25A-SY50M-39-1A-C6** ····· 1 set (Individual EXH spacer part no.)

Sub-plate Parts Nos.

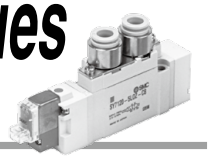


No.	Description	Part no.		Note
		SY5000	SY7000	
①	**Round head combination screw**	**SY5000-223-1A** (M3 x 32.5)	**SY7000-224-1A** (M3 x 36.5)	Part numbers shown on the left are for 10 valves (20 pcs.). (30 pcs. for the SY7000)
②	**Base gasket (for sub-plate)**	**SY50M-11-1A**	**SY70M-11-1A**	Part numbers shown on the left are for 10 valves (10 pcs.).
③	**M12 waterproof connector cable**	**90-ZS-37-A-X258**		Cable length: 3000 mm

5-Port Solenoid Valve Body Ported/Single Unit

25A-SY5000/7000/9000 Series

[Option]



How to Order

25A – SY [5] [1] 20 [ ] – [5] [L] [ ] [ ] – [01] [ ] – [ ] – [ ] – [ ]

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000
9	SY9000

Type of actuation

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

*1 "A," "B," and "C" are only selectable for the "X701."

Coil specifications

Nil	Standard
T	With power-saving circuit (24, 12 VDC only)

* Power-saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

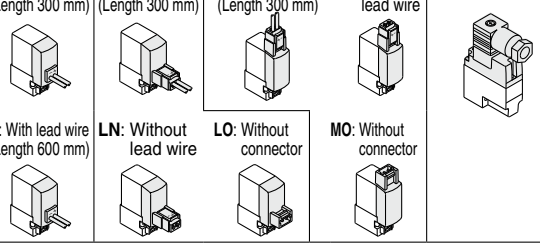
For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

* DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.
* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC				24, 12 VDC/100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector		DIN terminal
G: With lead wire (Length 300 mm)	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	MN: Without lead wire	D,Y: With connector
H: With lead wire (Length 600 mm)	LN: Without lead wire	LO: Without connector	MO: Without connector	



* "LN," "MN" type: with 2 sockets.
* "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
* Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

A, B port size

Thread piping

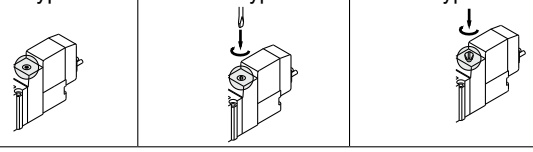
Symbol	Port size	Applicable series
01	1/8	SY5000
02	1/4	SY7000 SY9000
03	3/8	SY9000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000 SY9000
C10	One-touch fitting for ø10	
C12	One-touch fitting for ø12	SY9000

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type



Light/surge voltage suppressor

Electrical entry for G, H, L, M

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

* There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.
* For "R" and "U," DC voltage is only available.
* Power-saving circuit is only available in the "Z" type.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor

* There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Made to order

Nil	—
X701	4-position dual 3-port

* "X701" is only available for the SY5000/7000.

Bracket

Nil	Without bracket
F1	With foot bracket (2-position single only)
F2	With side bracket

*2 SY9000 has no bracket.

Thread type

Nil	Rc
F	G

* Manifold mounting screws and gaskets are included with the manifold, but they are not included when ordering a body ported solenoid valve as a single unit. Order them separately if necessary. (For details, refer to page 70.)

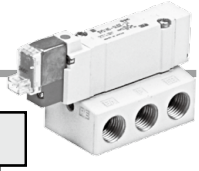
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

5-Port Solenoid Valve
Base Mounted/Single Unit

CE UKCA [Option]

25A-SY5000/7000/9000 Series



How to Order

25A – SY 5 2 40 □ □ – 5 L □ □ – □ □ – □ – □

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000
9	SY9000

Type of actuation

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

*1 "A," "B," and "C" are only selectable for the "X701."

Pilot type

Nil	Internal pilot
R	External pilot

* Only the internal pilot type is selectable for the "X701."

Coil specifications

Nil	Standard
T	With power-saving circuit (24, 12 VDC only)

* Power-saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

* DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.
* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Thread type

Nil	Rc
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* AC-type models that are CE/UKCA-compliant have DIN terminals only.

Port size

Symbol	Port size	Applicable series
Nil	Without sub-plate	
02	1/4 With sub-plate	SY5000 SY7000
03	3/8 With sub-plate	SY7000 SY9000
04	1/2 With sub-plate	SY9000

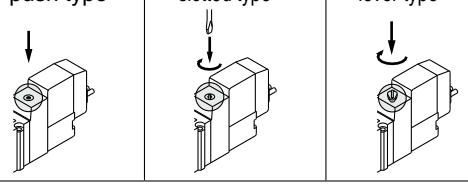
Made to order

Nil	—
X701	4-position dual 3-port

* "X701" is only available for the SY5000/7000.

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type



Light/surge voltage suppressor

Electrical entry for G, H, L, M

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

* There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.
* For "R" and "U," DC voltage is only available.
* Power-saving circuit is only available in the "Z" type.

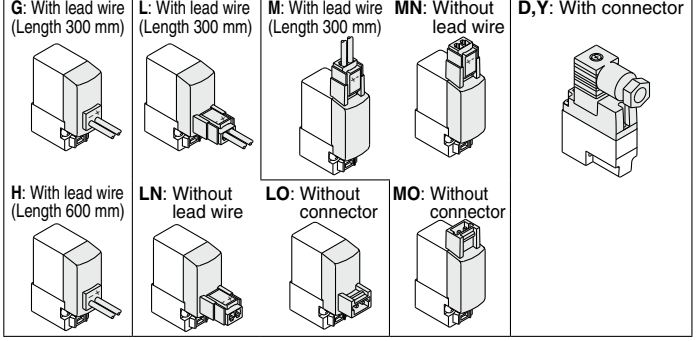
Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

* There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

Electrical entry

24, 12, 6, 5, 3 VDC / 100, 110, 200, 220 VAC				24, 12 VDC / 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector		DIN terminal
G: With lead wire (Length 300 mm)	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	MN: Without lead wire	D,Y: With connector
H: With lead wire (Length 600 mm)	LN: Without lead wire	LO: Without connector	MO: Without connector	



* "LN," "MN" type: with 2 sockets.
* "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
* Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

* The 25A- series specifications and dimensions are the same as those of the standard model.

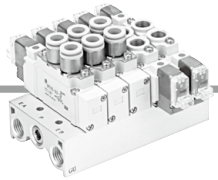
For details, refer to the Web Catalog.

5-Port Solenoid Valve Body Ported Manifold Bar Stock Type/Individual Wiring

Type 20

25A-SY5000/7000 Series

[Option]



How to Order Manifolds

25A – SS5Y [5] – 20 – [05] – [ ] – [ ]

Series compatible with secondary batteries

Manifold series

5	SY5000
7	SY7000

Stations

02	2 stations
⋮	⋮
20	20 stations

∗ The blanking plate assembly is included in this number.

Thread type

Nil	Rc
00F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 71.

For details, refer to the Web Catalog.

[Option]

How to Order Valves

25A – SY 5 1 20 ☐ – 5 L ☐ ☐ – 01 ☐ – ☐

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Coil specifications

Nil	Standard
T	With power-saving circuit (24 VDC, 12 VDC only)

∗ Power-saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

∗ DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.
∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) **H**: With lead wire (Length 600 mm)	**L**: With lead wire (Length 300 mm) **LN**: Without lead wire **LO**: Without connector	**M**: With lead wire (Length 300 mm) **MN**: Without lead wire **MO**: Without connector	**D**: With connector **Y**: With connector

∗ "LN," "MN" type: with 2 sockets.
∗ "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
∗ Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

Light/surge voltage suppressor

Electrical entry for G, H, L, M

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.
∗ For "R" and "U," DC voltage is only available.
∗ Power-saving circuit is only available in the "Z" type.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

∗ There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

Manual override

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

A, B port size

Thread piping

Symbol	Port size	Applicable series
01	1/8	SY5000
02	1/4	SY7000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000
C10	One-touch fitting for ø10	

Thread type

Nil	Rc
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

5-Port Solenoid Valve
Body Ported Manifold
Stacking Type/Individual Wiring

Type 23

25A-SY9000 Series

CE UKCA [Option]

How to Order Manifold

Type 23/External pilot capable

25A – SS5Y 9 – 23 – 05 – ☐ – ☐

- **25A**: Series compatible with secondary batteries
- **9**: Manifold series

9	SY9000

- **05**: Valve stations

Symbol	Stations
02	2 stations
⋮	⋮
20	20 stations

∗ This also includes the number of blanking plate assemblies.

- ☐: Thread type

Nil	Rc
00F	G

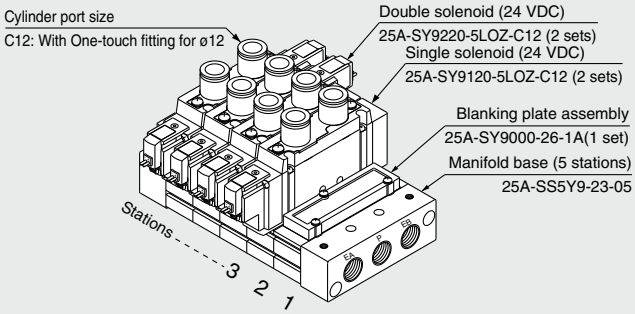
- ☐: CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

How to Order Manifold Assembly (Example)

Example



25A-SS5Y9-23-05 ····· **1 set (Type 23, 5-station manifold base part no.)**
∗ **25A-SY9000-26-1A** ····· **1 set (Blanking plate assembly part no.)**
∗ **25A-SY9120-5LOZ-C12** ··· **2 sets (Single solenoid part no.)**
∗ **25A-SY9220-5LOZ-C12** ··· **2 sets (Double solenoid part no.)**

→ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

[Option]

25A – SY 9 1 20 ☐ ☐ – 5 L ☐ ☐ – 02 ☐ – ☐

- **Series compatible with secondary batteries**

Series

9	SY9000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

Pilot specifications

Nil	Internal pilot
R	External pilot

∗ In the case of external pilot specifications, it cannot be used as a single unit.

Coil specifications

Nil	Standard
T	With power saving circuit (24 VDC, 12 VDC only)

∗ Power saving circuit is not available in the case of D or Y type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

∗ DC specifications of type D and Y is only available with 12 and 24 VDC.

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) **H**: With lead wire (Length 600 mm)	**L**: With lead wire (Length 300 mm) **LN**: Without lead wire **LO**: Without connector	**M**: With lead wire (Length 300 mm) **MN**: Without lead wire **MO**: Without connector	**D**: With connector **Y**: With connector

∗ "LN," "MN" type: with 2 sockets.
∗ "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
∗ Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

Light/Surge voltage suppressor

Electrical entry for G, H, L, M, W

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.
∗ For "R" and "U", DC voltage is only available.
∗ Power saving circuit is only available in the "Z" type.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor

∗ For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

Manual override

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

A, B port size

Thread piping

Symbol	Port size
02	1/4
03	3/8

One-touch fitting (Metric size)

Symbol	Port size
C8	One-touch fitting for ø8
C10	One-touch fitting for ø10
C12	One-touch fitting for ø12

Thread type

Nil	Rc
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

Note) Manifold mounting screws and gaskets are included with the manifold, but they are not included when ordering a body ported solenoid valve as a single unit. Order them separately if necessary. (For details, refer to page 70.)

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

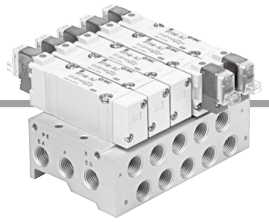
For details, refer to the Web Catalog.

Type 41
Type 42

5-Port Solenoid Valve Base Mounted Manifold Bar Stock Type/Individual Wiring

[Option]

25A-SY5000/7000 Series



How to Order Manifolds

Type 41/Compact type

25A – SS5Y 5 – 41 – 05 – C8 ☐ – ☐

Series compatible with secondary batteries

Manifold series

5	SY5000

Stations

02	2 stations
⋮	⋮
20	20 stations

∗ The blanking plate assembly is included in this number.

A, B port size

Thread piping

Symbol	Port size	Applicable series
01	1/8	SY5000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for ø8	

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N7	One-touch fitting for ø1/4"	SY5000
N9	One-touch fitting for ø5/16"	

Thread type

Nil	Rc
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

Type 42/External pilot capable

25A – SS5Y 5 – 42 – 05 – C8 ☐ – ☐

Series compatible with secondary batteries

Manifold series

5	SY5000
7	SY7000

Stations

02	2 stations
⋮	⋮
20	20 stations

∗ The blanking plate assembly is included in this number.

A, B port size

Thread piping

Symbol	Port size	Applicable series
02	1/4	SY5000
02	1/4	SY7000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for ø8	
C10	One-touch fitting for ø10	SY7000

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N7	One-touch fitting for ø1/4"	SY5000
N9	One-touch fitting for ø5/16"	
N11	One-touch fitting for ø3/8"	SY7000

Thread type

Nil	Rc
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model. However, the blanking plate assembly has different dimensions. Refer to page 71.

For details, refer to the Web Catalog.

[Option]

How to Order Valves

25A – SY 5 2 40 □ □ – 5 L □ □ – □

Series compatible with secondary batteries

Series

5	SY5000
7	SY7000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Pilot type

Nil	Internal pilot
R	External pilot

Coil specifications

Nil	Standard
T	With power-saving circuit (24 VDC, 12 VDC only)

∗ Power-saving circuit is not available in the case of "D" or "Y" type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

∗ DC specifications of type "D" and "Y" are only available with 12 and 24 VDC.
∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ AC-type models that are CE/UKCA-compliant have DIN terminals only.

Manual override

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

Light/surge voltage suppressor

Electrical entry for G, H, L, M

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.
∗ For "R" and "U," DC voltage is only available.
∗ Power-saving circuit is only available in the "Z" type.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

∗ There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) **H**: With lead wire (Length 600 mm)	**L**: With lead wire (Length 300 mm) **LN**: Without lead wire **LO**: Without connector	**M**: With lead wire (Length 300 mm) **MN**: Without lead wire **MO**: Without connector	**D**: With connector **Y**: With connector

∗ "LN," "MN" type: with 2 sockets.
∗ "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
∗ Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

5-Port Solenoid Valve
Base Mounted Manifold
Stacking Type/Individual Wiring

Type 43

25A-SY9000 Series

[Option]
Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

How to Order Manifold

25A-SS5Y9-43-05U ☐-C8☐-☐

- **Series compatible with secondary batteries**
- **Manifold series**

9	SY9000

- **Valve stations**

Symbol	Stations
02	2 stations
⋮	⋮
20	20 stations

∗ This also includes the number of blanking plate assemblies.

- **P, R port outlets**

Symbol	Port outlet	Applicable stations
U	U side	2 to 10 stations
D	D side	
B	Both sides	2 to 20 stations

- **SUP/EXH block assembly specifications**

Symbol	Specifications
Nil	Standard/Internal pilot specification
R	External pilot specification
S	Internal pilot/Built-in silencer
RS	External pilot/Built-in silencer

- **A, B port size**

Thread piping

Symbol	Port size
02	1/4
03	3/8

One-touch fitting (Metric size)

Symbol	Port size
C8	One-touch fitting for ø8
C10	One-touch fitting for ø10
C12	One-touch fitting for ø12
M	Mixed

- **Thread type**

Nil	Rc
F	G

∗ When One-touch fittings are selected for "A, B port size", the symbol is nil.

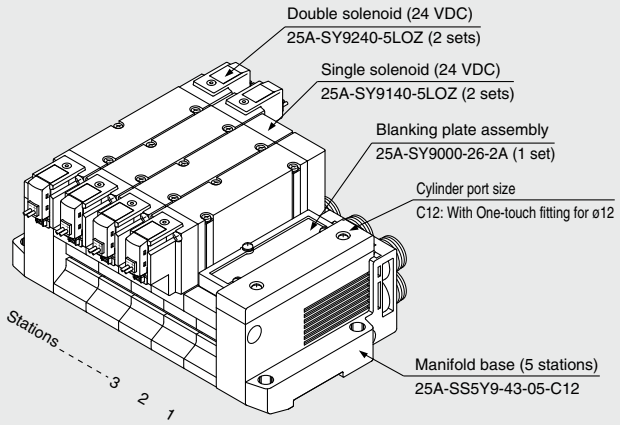
- **CE/UKCA-compliant**

Nil	—
Q	CE/UKCA-compliant

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

How to Order Manifold Assembly (Example)

Example



25A-SS5Y9-43-05B-C12 ··· **1 set (Type 43, 5-station manifold base part no.)**
∗ **25A-SY9000-26-2A** ····· **1 set (Blanking plate assembly part no.)**
∗ **25A-SY9140-5LOZ**····· **2 sets (Single solenoid part no.)**
∗ **25A-SY9240-5LOZ**····· **2 sets (Double solenoid part no.)**

The asterisk denotes the symbol for assembly.
Prefix it to the part nos. of the solenoid valve, etc.

Add the valve and option part number under the manifold base part number. In the case of complex arrangement, specify them on the manifold specification sheet.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Valve

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

[Option]

25A – SY 9 2 40 □ □ – 5 L □ □ – □

Series compatible with secondary batteries

Series

9	SY9000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

Pilot type

Nil	Internal pilot
R	External pilot

Coil specifications

Nil	Standard
T	With power saving circuit (24, 12 VDC only)

∗ Power saving circuit is not available in the case of D or Y type.

Rated voltage

For DC

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC

For AC (50/60 Hz)

1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]

∗ DC specifications of Type D and Y is only available with 12 and 24 VDC.

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

Electrical entry

24, 12, 6, 5, 3 VDC/100, 110, 200, 220 VAC			24, 12 VDC/ 100, 110, 200, 220 VAC
Grommet	L plug connector	M plug connector	DIN terminal
G: With lead wire (Length 300 mm) **H**: With lead wire (Length 600 mm)	**L**: With lead wire (Length 300 mm) **LN**: Without lead wire **LO**: Without connector	**M**: With lead wire (Length 300 mm) **MN**: Without lead wire **MO**: Without connector	**D**: With connector **Y**: With connector

∗ "LN," "MN" type: with 2 sockets.
∗ "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C).
∗ Refer to the standard products for the lead wire length of L and M plug connectors and the connector assembly with cover for L and M plug connector.

Light/Surge voltage suppressor

Electrical entry for G, H, L, M, W

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With indicator light and surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.
∗ For "R" and "U", DC voltage is only available.
∗ Power saving circuit is only available in the "Z" type.

Electrical entry for D, Y

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

∗ For AC voltage valves there is no "S" option. It is already built-in to the rectifier circuit.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Note) AC-type models that are CE/UKCA-compliant have DIN terminals only.

Manual override

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

Note) When ordering single unit of the base mounted type solenoid valve, the mounting screws and gaskets for the manifold are included.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Pilot Valve Assembly (With two mounting screws)

25A – V111 □ – 5 G □

Coil specifications

Nil	Standard
T	With power-saving circuit (24 VDC, 12 VDC only)

∗ Power-saving circuit is not available in the case of D or Y type.

Rated voltage

5	24 VDC
6	12 VDC
V	6 VDC
S	5 VDC
R	3 VDC
1	100 VAC 50/60 Hz
2	200 VAC 50/60 Hz
3	110 VAC 50/60 Hz [115 VAC 50/60 Hz]
4	220 VAC 50/60 Hz [230 VAC 50/60 Hz]

∗ CE/UKCA-compliant: For DC only.

Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor
Z	With light/surge voltage suppressor
R	With surge voltage suppressor (Non-polar type)
U	With light/surge voltage suppressor (Non-polar type)

∗ For AC voltage valves there is no “S” option. It is already built-in to the rectifier circuit.
∗ For “R” and “U”, DC voltage is only available.
∗ Power-saving circuit is only available in the “Z” type.

Electrical entry

G	Grommet, 300 mm lead wire	
H	Grommet, 600 mm lead wire	
L	L plug connector	With lead wire
LN		Without lead wire
LO		Without connector
M	M plug connector	With lead wire
MN		Without lead wire
MO		Without connector

DIN terminal type

25A – V115 – 5 D □

Rated voltage

5	24 VDC
6	12 VDC
1	100 VAC 50/60 Hz
2	200 VAC 50/60 Hz
3	110 VAC 50/60 Hz [115 VAC 50/60 Hz]
4	220 VAC 50/60 Hz [230 VAC 50/60 Hz]

∗ DC specifications of type D and Y is only available with 12 and 24 VDC.

Light/Surge voltage suppressor

Nil	Without light/surge voltage suppressor
S	With surge voltage suppressor (Non-polar type)
Z	With light/surge voltage suppressor (Non-polar type)

∗ DOZ and YOZ are not available.
∗ For AC voltage valves there is no “S” option. It is already built-in to the rectifier circuit.

Electrical entry

D	DIN terminal (Type D)	With connector
DO		Without connector
Y	DIN terminal (Type Y)	With connector
YO		Without connector

∗ Do not replace V111 (G, H, L, M) to V115 (DIN terminal) and vice versa when replacing pilot valve assembly only.

∗ Since V111 and V115 are CE/UKCA-compliant as standard, the suffix “-Q” is not necessary.

One-touch Fittings Part Nos. for Body Ported

Port size			25A-SY5000	25A-SY7000	25A-SY9000
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**		—
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**		—
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**	**90-VVQ2000-51A-C8**	**90-VVQ4000-50B-C8**
		ø10 One-touch fitting (Straight type)		**90-VVQ2000-51A-C10**	**90-VVQ4000-50B-C10**
		ø12 One-touch fitting (Straight type)	—	—	**90-VVQ4000-50B-C12**

Gasket Assembly Part Nos.

Valve model	Manifold type	25A-SY5000	25A-SY7000	25A-SY9000
Body ported	Type 20/23	**SY5000-GS-3**	**SY7000-GS-3**	**SY9000-GS-3**
Base mounted	Type 41/42/43	**SY5000-GS-4 (-Q)**	**SY7000-GS-4 (-Q)**	**SY9000-GS-4**

∗ The gasket assembly includes 10 sets of a gasket and mounting screws.

Bracket Assembly Part Nos.

Description	Part no.
Bracket (For F1)	**25A-SX$^{5}_{7}$000-16-2A** (With mounting screw)
Bracket (For F2)	**25A-SX$^{5}_{7}$000-16-1A** (With mounting screw)

Port Block Assembly Part Nos.

25A−SY[5]000−6A−[01][ ]

Series

5	SY5000
7	SY7000
9	SY9000

Thread type

Nil	Rc
F	G

A, B port size
Thread piping

Symbol	Port size	Applicable series
01	1/8	SY5000
02	1/4	SY7000 SY9000
03	3/8	SY9000

One-touch fitting (Metric size)

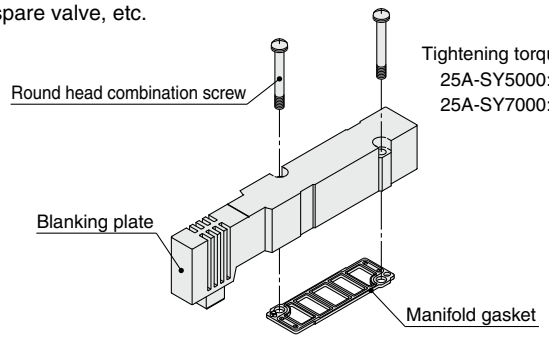
Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
C8	One-touch fitting for ø8	SY7000 SY9000
C10	One-touch fitting for ø10	
C12	One-touch fitting for ø12	SY9000

Manifold Options

■Blanking plate assembly (For 25A-SY5000/7000)

(Mounting screw: 2 pcs., with gasket)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



How to Order (For 25A-SY5000/7000)

25A − SY 5 000 − 26 − 1A

●Series

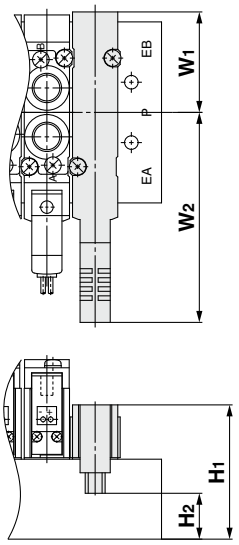
5	SY5000
7	SY7000

⚠ Caution

When mounted on a type 20 manifold, only the P port is plugged. In addition, it cannot be used for the type 20 CE/UKCA-compliant manifold.

Dimensions (For 25A-SY5000/7000)

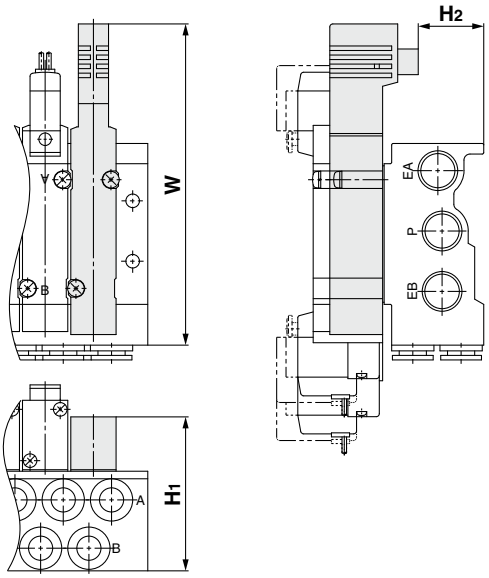
Manifold type/For type 20



Dimensions [mm]

Series	Manifold type	W_1	W_2	H_1	H_2
25A-SY5000	Type 20	33.3	69.6	44.5	15.2
25A-SY7000	Type 20	39.4	76.4	41.1	18.3

Manifold type/For type 41/42



Dimensions [mm]

Series	Manifold type	W	H_1	H_2
25A-SY5000	Type 41	106.4	51	21.7
	Type 42	107.6	56	26.7
25A-SY7000	Type 42	118.1	55.6	32.8

Manifold Option

How to Order Blanking Plate Assembly (For 25A-SY9000)

25A − SY9000 − 26 − [1] A(-Q)

Manifold type

1	Body ported
2	Base mounted

∗ Dimensions are the same as those of the standard model.

Replacement Parts

Description	Part no.	Manifold model no.
Manifold block assembly	**25A-SY9000-50-1A**	Type 23
	25A-SY9000-50-2A-C8	Type 43
	25A-SY9000-50-2A-C10	
	25A-SY9000-50-2A-C12	
Hexagon nut	**SY9000-25-3**	Type 23/43

How to Order SUP/EXH Block Assembly

D side mounting

25A-SY9000-70-[ ] A-[ ]

P, R port

C12	One-touch fitting for ø12
00	Plug

Specifications

1	Internal pilot type
3	External pilot type
4	Internal pilot / Built-in silencer type
5	External pilot / Built-in silencer type

U side mounting

25A-SY9000-71-[ ] A-[ ]

P, R port

C12	One-touch fitting for ø12
00	Plug

Specifications

1	Internal pilot type
3	External pilot type
4	Internal pilot / Built-in silencer type
5	External pilot / Built-in silencer type

Plug-in Unit/Base Mounted
F Kit (D-sub connector kit)
25A-VQ2000 Series

How to Order Manifolds

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A−VV5Q 2 1− 08 C6 F U 1 − □ − □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

02	2 stations
⋮	⋮
24	24 stations

Cylinder port

Symbol	Port size
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
C8	With ø8 One-touch fitting
L4	Top ported elbow with ø4 One-touch fitting
L6	Top ported elbow with ø6 One-touch fitting
L8	Top ported elbow with ø8 One-touch fitting

Connector entry direction

U	Top entry
S	Side entry

Cable (Length)

0	Without cable
1	With cable (1.5 m)
2	With cable (3 m)
3	With cable (5 m)

Option

Symbol	Option
Nil	None
2	200/220 VAC models
B∗1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□∗2	DIN rail length specified (□: Stations 02 to 24)
K∗3	Special wiring specifications (Except double wiring)
N	With name plate
R∗4	External pilot
S	Direct EXH outlet with built-in silencer

∗1 Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
∗2 The number of stations that may be displayed is longer than the manifold number of stations.
∗3 Specify the wiring specifications by means of the manifold specification sheet.
∗4 Indicate "R" for the valve with external pilot.
∗ When two or more symbols are specified, indicate them alphabetically.
Example) -BRS

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

How to Order Valves

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A−VQ 2 1 0 1 □ − 5 □ □ 1 − □

Series compatible with secondary batteries

Series

2	VQ2000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

		CE/UKCA-compliant
1	100 VAC (50/60 Hz)	—
2	200 VAC (50/60 Hz)	—
3	110 VAC (50/60 Hz)	—
4	220 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

Light/surge voltage suppressor

Nil	Yes
E	None

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

⚠ Caution

Use the standard (DC) specification when continuously energizing for long periods of time.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug-in Unit/Base Mounted
T Kit (Terminal block box kit)
25A-VQ2000 Series

How to Order Manifolds

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A – VV5Q 2 1 – 08 C6 T 0 – □ – □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

02	2 stations
⋮	⋮
20	20 stations

Cylinder port

Symbol	Port size
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
C8	With ø8 One-touch fitting
L4	Top ported elbow with ø4 One-touch fitting
L6	Top ported elbow with ø6 One-touch fitting
L8	Top ported elbow with ø8 One-touch fitting

Option

Symbol	Option
Nil	None
B∗1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□∗2	DIN rail length specified (□: Stations 02 to 20)
K∗3	Special wiring spec. (Except double wiring)
N	With name plate
R∗4	External pilot
S	Direct EXH outlet with built-in silencer
W	Enclosure: Dust-tight, Water-jet-proof (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

∗1 Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
∗2 The number of stations that may be displayed is longer than the manifold number of stations.
∗3 Specify the wiring specifications by means of the manifold specification sheet.
∗4 Indicate "R" for the valve with external pilot.
∗ When two or more symbols are specified, indicate them alphabetically.
Example) -BRS
∗ Specify the mounting position by means of the manifold specification sheet.

How to Order Valves

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A – VQ 2 1 0 1 □ – 5 □ □ □ 1 – □

Series compatible with secondary batteries

Series

2	VQ2000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

∗ When two or more symbols are specified, indicate them alphabetically. Combination of "B" and "K" is not possible.

Coil voltage

		CE/UKCA-compliant
1	100 VAC (50/60 Hz)	—
3	110 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

Light/surge voltage suppressor

Nil	Yes
E	None

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

⚠ Caution

Use the standard (DC) specification when continuously energizing for long periods of time.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug-in Unit/Base Mounted
L Kit (Lead wire)
25A-VQ2000 Series

How to Order Manifolds

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A–VV5Q 2 1 – 06 C6 L 1 – □ – □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

01	1 station
⋮	⋮
08	8 stations

Cylinder port

Symbol	Port size
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
C8	With ø8 One-touch fitting
L4	Top ported elbow with ø4 One-touch fitting
L6	Top ported elbow with ø6 One-touch fitting
L8	Top ported elbow with ø8 One-touch fitting

Cable (Length)

0	Cable length 0.6 m
1	Cable length 1.5 m
2	Cable length 3 m

Option

Symbol	Option
Nil	None
2	200/220 VAC models
B∗1	With back pressure check valve
D	DIN rail mounting
D0	With DIN rail bracket (Without DIN rail)
D□∗2	DIN rail length specified (□: Stations 02 to 08)
N	With name plate
R∗3	External pilot
S	Direct EXH outlet with built-in silencer
W	Enclosure: Dust-tight, Water-jet-proof (IP65)

∗1 Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
∗2 The number of stations that may be displayed is longer than the manifold a number of stations.
∗3 Indicate "R" for the valve with external pilot.
∗ When two or more symbols are specified, indicate them alphabetically.
Example) -BRS

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

How to Order Valves

∗ For CE/UKCA-compliant models, DC-type only. [Option]

25A–VQ 2 1 0 1 □ – 5 □ □ □ 1 – □

Series compatible with secondary batteries

Series

2	VQ2000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.4 W) ○	○
B	High speed response type	(0.95 W) ○	—
N	Negative common	○	—
R	External pilot	○	○

∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

		CE/UKCA-compliant
1	100 VAC (50/60 Hz)	—
2	200 VAC (50/60 Hz)	—
3	110 VAC (50/60 Hz)	—
4	220 VAC (50/60 Hz)	—
5	24 VDC	●
6	12 VDC	●

Light/surge voltage suppressor

Nil	Yes
E	None

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalog.**

Plug-in Unit/Base Mounted
S Kit (Serial transmission)
25A-VQ2000 Series

How to Order Manifolds

∗ Refer to "SI Unit Part Nos." when ordering the CE/UKCA-compliant SI unit. [Option]

25A−VV5Q 2 1 − 08 C6 S V − □ − □

Series compatible with secondary batteries

Series

2	VQ2000

Manifold

1	Plug-in unit

Stations

02	2 stations
⋮	⋮
16∗1	16 stations

∗1 Max. 16 stations. (Specify a model with 9 to 16 stations by means of the manifold specification sheet.)

Cylinder port

Symbol	Port size
C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
C8	With ø8 One-touch fitting
L4	Top ported elbow with ø4 One-touch fitting
L6	Top ported elbow with ø6 One-touch fitting
L8	Top ported elbow with ø8 One-touch fitting

SI unit specifications

Symbol	Protocol	Stations
0	Without SI unit	—
Q	DeviceNet®	Max.16 stations
V	CC-Link	

Option

Symbol	Option
Nil	None
B∗1	With back pressure check valve
D	DIN rail mounting
D□∗2	DIN rail length specified (□: Stations 02 to 16)
K∗3	Special wiring specifications (Except double wiring)
N	With name plate
R∗4	With external pilot
S	Direct EXH outlet with built-in silencer
W∗5	Enclosure: Dust-tight, Water-jet-proof (IP65)

∗1 Models with a suffix "-B" have check valves for prevention of back pressure at all manifold stations. When a back pressure check valve is desired, and is to be installed only in certain manifold stations, specify the mounting position by means of the manifold specification sheet.
∗2 The number of stations that may be displayed is longer than the manifold number of stations.
∗3 Specify the wiring specifications by means of the manifold specification sheet.
∗4 Indicate "R" for the valve with external pilot.
∗5 Refer to "Dimensions" of the standard products for SI unit and valve, in case of "W" (Dust-tight, Water-jet-proof).
∗ When two or more symbols are specified, indicate them alphabetically.
Example) -BRS.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ Refer to "SI Unit Part Nos." when ordering the CE/UKCA-compliant SI unit.

SI Unit Part Nos.

Symbol	Protocol	SI unit part no.
Q	DeviceNet®	EX120-SDN1-X220
V	CC-Link	EX120-SMJ1-X220

SI Unit Part Nos. (With option W)

Symbol	Protocol	SI unit part no.
Q	DeviceNet®	EX124D-SDN1-X220
V	CC-Link	EX124D-SMJ1-X220

How to Order Valves

[Option]

25A−VQ 2 1 0 1 □ − 5 □ □ 1 − □

Series compatible with secondary batteries

Series

2	VQ2000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual port (N.C./N.C.)
B	4-position dual port (N.O./N.O.)
C	4-position dual port (N.C./N.O.)

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC
Nil	Standard	(0.4 W) ○
B	High speed response type	(0.95 W) ○
N∗1	Negative common	○
R∗1	External pilot	○

∗1 External pilot and negative common specifications are the same as standard products.
∗ When two or more symbols are specified, indicate them alphabetically.

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)
D	Slide locking type (Manual)

Coil voltage

5	24 VDC; With indicator light/ surge voltage suppressor

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Sub-plate Single Unit
25A-VQ2000 Series

How to Order

∗ For CE/UKCA-compliant models, DC-type only. [Option]

In the case of (Valve) + (Sub-plate)

25A − VQ2 [1] 0 [1] − [5] [W] 1 − 02 [ ] − [ ]

Series compatible with secondary batteries

The entry is the same as that of the standard model.

Enclosure

Nil	Dustproof
W∗1	Dust-tight/Water-jet-proof type (IP65)

∗1 Valves are IP65 specifications.
∗ When the valve is a standard (dust-protected) specification, it is not compatible with 200 or 220 VAC.

Port size

02	1/4

Thread type

Nil	Rc
N	NPT
T	NPTF
F	G

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ For CE/UKCA-compliant models, DC-type only.

In the case of (Sub-plate) alone

25A − VQ2000 − PW − 02

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

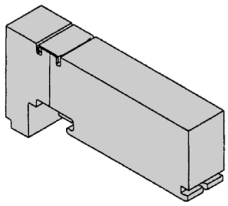
For details, refer to the Web Catalog.

Manifold Options

Blanking plate assembly

25A-VVQ2000V-10A-1

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

SI Unit Part Nos.

Description	SI unit part no.	Note
EX124 SI unit	**EX124D-SMJ1-X220**	CC-Link
	EX124D-SDN1-X220	DeviceNet®
EX120 SI unit	**EX120-SMJ1-X220**	CC-Link (VQ2000/Without option “W”)
	EX120-SDN1-X220	DeviceNet® (VQ2000/Without option “W”)

One-touch Fittings Part Nos.

Port size			One-touch fitting part no.
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)	**90-VVQ2000-51A-C10**

Plug-in/Plug Lead: Single Unit Base Mounted

25A-VQ4000 Series

How to Order Valves

[Option]

Plug-in 25A−VQ4 1 0 1 □ − □ □ □ □ □ 1 − □ □ − □

Plug lead 25A−VQ4 2 5 1 □ − □ □ □ □ □ 1 − □ □ − □

Series compatible with secondary batteries

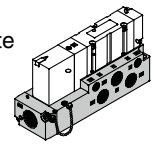
Type of actuation

1	2-position single
2	Rubber/2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6∗1	3-position double check

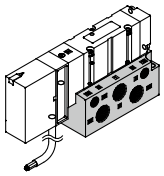
∗1 For double check type, refer to the **Web Catalog**.

Body

0: Plug-in sub-plate



5: Plug lead sub-plate



Seal type

1	Rubber seal

Function

Nil∗1	Standard type (0.95 W)
Y∗2	Low wattage type (0.4 W)
R∗3	External pilot

∗1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
∗2 Only DC is available with Y.
∗3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

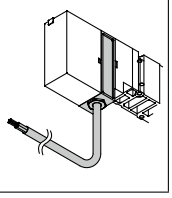
1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

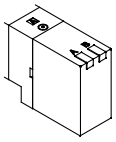
Electrical entry

Grommet	G	Lead wire length 0.6 m
	H	Lead wire length 1.5 m

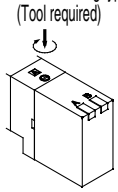


Manual override

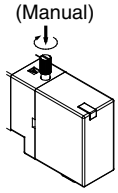
Nil: Non-locking push type (Tool required)



B: Slotted locking type (Tool required)



C: Locking type (Manual)



Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

Porting specifications

Nil	Side ported
B	Bottom ported

Port size

Nil	Without sub-plate (For manifold)
02	Rc 1/4
03	Rc 3/8

∗ Thread standard is the same as standard products.

How to Order Sub-plates

[Option]

25A−VQ4000−□□−□□−□

Series compatible with secondary batteries

Electrical entry

P	Plug-in conduit terminal
S	Plug lead

Enclosure

Nil	Dustproof
W∗1	Dust-tight/Water-jet-proof type

∗1 It is not necessary for plug lead type.

Porting specifications

Nil	Side ported
B	Bottom ported∗1

∗1 For bottom ported port size is Rc 1/4 only.
∗ Thread standard is the same as standard products.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Port size

02	Rc1/4
03	Rc3/8

∗ The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalog.**

Plug-in Unit/Base Mounted
F Kit (D-sub connector kit)
25A-VQ4000 Series

How to Order Manifolds

[Option]

25A – VV5Q 4 1 – 08 C8 F U 1 – ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

01	1 station
⋮	⋮
18	18 stations

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

∗ As a semi-standard specification, the maximum number of stations can be increased by special wiring specifications.

Connector entry direction

D	D side entry
U	U side entry

Cable (Length)

0	Without cable
1	Cable length 1.5 m
2	Cable length 3 m
3	Cable length 5 m

Option

Symbol	Option
Nil	None
K∗1	Special wiring specifications (Except double wiring)

∗1 Specify the wiring specifications on the manifold specification sheet.

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valves

[Option]

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ 1 – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6	3-position double check

Seal type

1	Rubber seal

Function

Nil∗1	Standard (0.95 W)
Y∗2	Low wattage type (0.4 W)
R∗3	External pilot

∗1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
∗2 Only DC is available with Y.
∗3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug-in Unit/Base Mounted T Kit (Terminal block box kit)

25A-VQ4000 Series

How to Order Manifolds

[Option]

25A – VV5Q 4 1 – 08 C8 T O – ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

03	3 stations
⋮	⋮
18	18 stations

∗ 2 stations are used for mounting the terminal block box. The number of stations is the number of manifold valves plus 2 stations for the terminal block box. For 13 stations or more, specify the wiring specifications by means of the manifold specification sheet.

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

∗ As a semi-standard specification, the maximum number of stations can be increased by special wiring specifications.

Box mounting position

O	U side mounting
D	D side mounting

Option

Symbol	Option
Nil	None
K∗1	Special wiring specifications (Except double wiring, for 13 stations or more)
N∗2	Name plate
W	IP65 enclosure

∗1 Specify the wiring specifications on the manifold specification sheet.
∗2 Name plate is inlaid in the terminal block cover.
∗ When two or more symbols are specified, indicate them alphabetically.
Example) -KM

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valves

[Option]

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ ☐ 1 – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6	3-position double check

Seal type

1	Rubber seal

Function

Nil∗1	Standard (0.95 W)
Y∗2	Low wattage type (0.4 W)
R∗3	External pilot

∗1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
∗2 Only DC is available with Y.
∗3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug-in Unit/Base Mounted
L Kit (Lead wire cable)
25A-VQ4000 Series

How to Order Manifolds

[Option]

25A – VV5Q 4 1 – 08 C8 L D □ – □ – □

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

01	1 station
⋮	⋮
16	16 stations

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

Connector locations

D	D side entry
U	U side entry

Cable (Length)

0	Cable length 0.6 m
1	Cable length 1.5 m
2	Cable length 3 m

Option

Symbol	Option
Nil	None
W	IP65 enclosure

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valves

[Option]

25A – VQ 4 1 0 1 □ – 5 □ □ □ 1 – □

Series compatible with secondary batteries

Series

4	VQ4000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6	3-position double check

Seal type

1	Rubber seal

Function

Nil*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

*1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Light /Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalog.**

Plug-in Unit/Base Mounted
S Kit (Serial transmission unit)
25A-VQ4000 Series

How to Order Manifolds

∗ Refer to "SI Unit Part Nos." when ordering the CE/UKCA-compliant SI unit.

[Option]

25A – VV5Q 4 1 – 08 C8 S D V – ☐ – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

1	Plug-in unit

Stations

03	3 stations
⋮	⋮
18	18 stations

∗ 2 stations are used for mounting SI unit. The number of stations is the number of manifold valves plus 2 stations for SI unit. For 11 stations or more, specify the wiring specifications by means of the manifold specification sheet.

Cylinder ports

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

SI unit mounting position

Nil	U side mounting
D	D side mounting

SI unit

0	Without SI unit
Q	DeviceNet®
V	CC-Link

Option

Symbol	Option
Nil	None
K∗1	Special wiring specifications (Except double wiring, for 11 stations or more)
W	IP65 enclosure

∗1 Specify the wiring specifications on the manifold specification sheet.
∗ When two or more symbols are specified, indicate them alphabetically. Example) -KW

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

[Option]

How to Order Valves

25A – VQ 4 1 0 1 ☐ – 5 ☐ ☐ ☐ 1 – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6	3-position double check

Seal type

1	Rubber seal

Function

Nil∗1	Standard (0.95 W)
Y∗2	Low wattage type (0.4 W)
R∗3	External pilot

∗1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
∗2 Only DC is available with Y.
∗3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
∗ When two or more symbols are specified, indicate them alphabetically.

Coil voltage

5	24 VDC

Light /Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)
C	Locking type (Manual)

Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug Lead Unit/Base Mounted C Kit (Connector kit)

25A-VQ4000 Series

[Option]

How to Order Manifolds

25A – VV5Q 4 5 – 08 C8 C – W – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Manifold

5	Plug lead unit

Stations

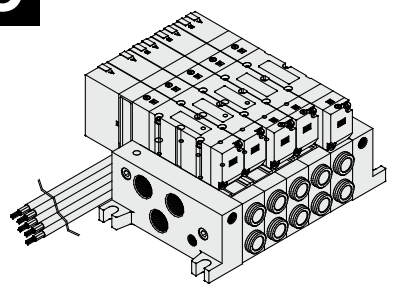
01	1 station
⋮	⋮
16	16 stations

Cylinder port

C6	With One-touch fitting for ø6
C8	With One-touch fitting for ø8
C10	With One-touch fitting for ø10
C12	With One-touch fitting for ø12
02	Rc 1/4
03	Rc 3/8
B	Bottom ported Rc 1/4
CM	Mixed

Kit type

C kit (Connector)



C	Connector kit	Max. 16 stations

Option

Symbol	Option
Nil	None
W	IP65 enclosure

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Refer to the **Web Catalog** for wiring specifications.

How to Order Valves

25A – VQ 4 1 5 1 ☐ – 5 G ☐ ☐ ☐ 1 – ☐

Series compatible with secondary batteries

Series

4	VQ4000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
6	3-position double check

Seal type

1	Rubber seal

Function

Nil*1	Standard (0.95 W)
Y*2	Low wattage type (0.4 W)
R*3	External pilot

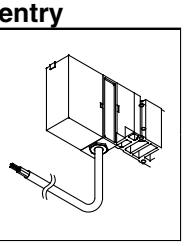
*1 When the unit is energized continuously, refer to "Specific Product Precautions 1" in the **Web Catalog** (VQ4000 series).
*2 Only DC is available with Y.
*3 External pilot specifications are the same as standard products. Combination of external pilot and perfect interface is not possible.
* When two or more symbols are specified, indicate them alphabetically.

Coil voltage

1	100 VAC (50/60 Hz)	4	220 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)	5	24 VDC
3	110 VAC (50/60 Hz)	6	12 VDC

Electrical entry

Grommet	G	Lead wire length 0.6 m
	H	Lead wire length 1.5 m

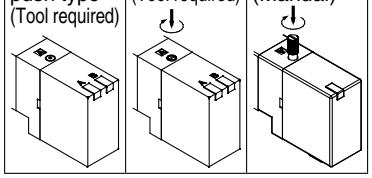


Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Manual override

Nil:	B:	C:
Non-locking push type (Tool required)	Locking type (Tool required)	Locking type (Manual)



Enclosure

Nil	Dustproof
W	Dust-tight/Water-jet-proof type (IP65)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

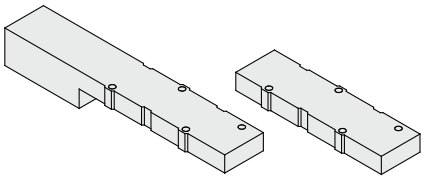
* The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalog.**

Manifold Options

Blanking plate assembly

25A-VVQ4000-10A-1 (Plug-in type)
25A-VVQ4000-10A-5 (Plug lead type)

It is used by attaching on the manifold block for being prepared for removing a valve for maintenance reasons or planning to mount a spare valve, etc.



∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

SI Unit Part Nos.

Description	SI unit part no.	Note
EX124 SI unit	**EX124D-SMJ1-X220**	CC-Link/D side mounting
	EX124D-SDN1-X220	DeviceNet®/D side mounting
	EX124U-SMJ1-X220	CC-Link/U side mounting
	EX124U-SDN1-X220	DeviceNet®/U side mounting

One-touch Fittings Part Nos.

Port size			One-touch fittings part no.
Cylinder port	Metric size	ø6 One-touch fitting (Straight type)	**90-VVQ4000-50B-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ4000-50B-C8**
		ø10 One-touch fitting (Straight type)	**90-VVQ4000-50B-C10**
		ø12 One-touch fitting (Straight type)	**90-VVQ4000-50B-C12**

Plug-in Unit
25A-SQ2000 Series

[Option]

How to Order Manifolds

25A – SS5Q23 – 08 FD2 – D □ – □ – □

- **Series compatible with secondary batteries**
- **Stations**

01	1 station
⋮	⋮
16*1	16 stations

*1 The maximum number of stations depends on the type of electrical entries.

- **Manifold mounting**

D	DIN rail mounting
E	Direct mounting

- **Option**

Nil	None
02 to 16*1	DIN rail length specified
B*2	Back pressure check valve
K*3	Special wiring specifications (Except double wiring)
N	With name plate (Side ported only)
R	External pilot specifications
S	Built-in silencer, direct exhaust

- **1(P), 3(R) port size**

Nil	1(P), 3(R) port One-touch fittings for ø10
00T	1(P), 3(R) port One-touch fittings for ø3/8"

- **CE/UKCA-compliant**

Nil	—
Q	CE/UKCA-compliant

*1 Specify DIN rail length with "D□" at the end. (Enter the number of stations inside □.) The number of stations that may be displayed is longer than the manifold number of stations. Example: -D09

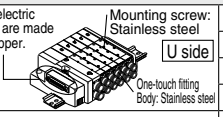
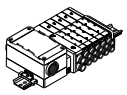
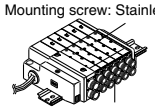
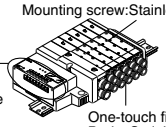
*2 When "-B" is selected, a back pressure check valve is included in all stations of the manifold. If the back pressure check valve is used only for the station that need it, then specify the station location in the manifold specification. ("-B" is not necessary)

*3 Specify "-K" for wiring specification for cases below. (Except L kit)
- All single wiring
- Single and double mixed wiring
- When there are stations which do not require wiring (e.g. single SUP spacer)

Specify the wiring specification in the manifold specification so that the number of solenoids is the maximum number of solenoids or less. (Standard wiring specification is double wiring)

* For specifying two or more options, enter them alphabetically. Example: -BKN

- **Electrical entry**

Kit type		Lead wire connector location	Cable specifications	Station	Max. number of stations for special wiring specifications	*1 Max. number of solenoids
F kit  D-sub connector kit	FD0	D side	D-sub connector (25P) kit, without cable	1 to 12 stations	16 stations	24
	FD1		D-sub connector (25P) kit, with 1.5 m cable			
	FD2		D-sub connector (25P) kit, with 3.0 m cable			
	FD3		D-sub connector (25P) kit, with 5.0 m cable			
T kit  Terminal block box kit	TD0	D side	Terminal block box kit	1 to 10 stations	16 stations	16
L kit  Lead wire kit	LD0	D side	Lead wire kit with 0.6 m cable	1 to 12 stations	—	—
	LU0	U side				
	LD1	D side	Lead wire kit with 1.5 m cable			
	LU1	U side				
	LD2	D side	Lead wire kit with 3.0 m cable			
	LU2	U side				
S kit  Serial transmission kit EX140 integrated-type (for output) serial transmission system*2	SDQ	D side	DeviceNet®	1 to 8 stations	16 stations	16
	SDV		CC-Link	1 to 8 stations	16 stations	16

*1 The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)

*2 Refer to the **Web Catalog** for the details of EX140 integrated-type (for output) serial transmission system. Refer to "SI unit part nos." below when ordering the CE/UKCA-compliant SI unit.

SI unit part nos.

Symbol	Protocol type	SI unit part no.	Page
SDQ	DeviceNet®	EX140-SDN1-X220	88
SDV	CC-Link	EX140-SMJ1-X220	

Blanking plate assembly

25A-SSQ2000-10A-3

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

[Option]

How to Order Valves

25A−SQ2 [1] 3 1 [ ] − [5] [ ] 1 − [C6] − [ ] − [ ] − [ ]

Series compatible with secondary batteries

Type of actuation

1	2-position single
2	2-position double (Double solenoid)∗1
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

∗1 For double solenoid specification, the function symbol below is "D."

Seal type

1	Rubber seal

Function

Nil	Standard (0.4 W DC)
B	Quick response type (0.95 W)
D∗1	2-position double (Double solenoid specifications)
N∗2	Negative common
R∗3	External pilot specifications

∗1 "D" is specified for 2-position double.
∗2 For L kit, when the manifold specifies negative common, the valve common should also be negative.
∗3 Except dual 3-port valves.
∗ When two or more symbols are specified, indicate them alphabetically.

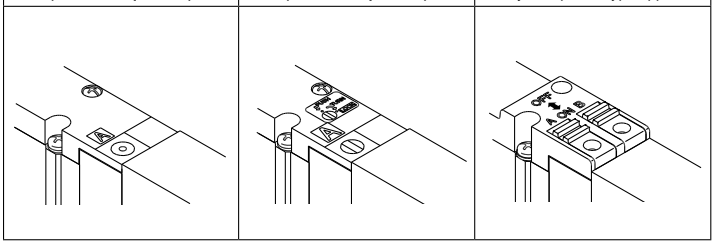
Coil voltage

5	24 VDC
6	12 VDC

∗ Light/Surge voltage suppressor is built-in.
∗ S kit: 24 VDC only

Manual override

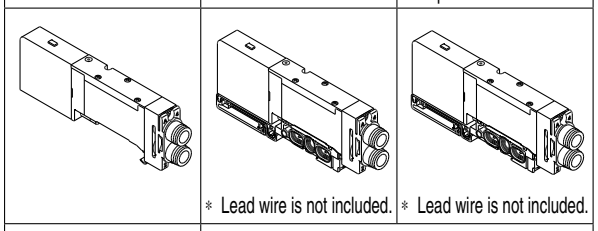
Nil	B	D
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) ∗ Only side ported type applicable



CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

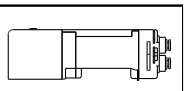
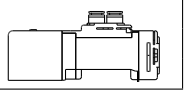
With/Without manifold block

Nil	M	MB
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
	∗ Lead wire is not included.	∗ Lead wire is not included.
• When ordering with manifolds • When only valves are required.	For adding stations	

Port plug mounting port

Nil	None
A	Port 4(A)
B	Port 2(B)

Cylinder port

C4	One-touch fittings for ø4	Side ported	
C6	One-touch fittings for ø6		
C8	One-touch fittings for ø8		
L4	One-touch fittings for ø4	Top ∗1 ported	
L6	One-touch fittings for ø6		
L8	One-touch fittings for ø8		

∗1 Can be changed to side ported configuration.

SI Unit Part Nos.

Description	SI unit part no.	Note
EX140 SI unit	**EX140-SMJ1-X220**	CC-Link
	EX140-SDN1-X220	DeviceNet®

One-touch Fittings Part Nos.

Port size			One-touch fittings part no.
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)	**90-VVQ2000-51A-C10**

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug Lead Unit
25A-SQ2000 Series

[Option]

How to Order Manifolds

25A – SS5Q24 – 08 FD2 – D □ – □ – □

Series compatible with secondary batteries

Stations

01	1 station
⋮	⋮
16*1	16 stations

*1 The maximum number of stations depends on the type of electrical entries.

Manifold mounting

D	DIN rail mounting
E*1	Direct mounting

*1 Type "E" is only available with a C kit.

Option

Nil	None
02 to 16*1	DIN rail length specified
B*2	Back pressure check valve
K*3	Special wiring specifications (Except double wiring)
N	With name plate (Side ported only)
R	External pilot specifications
S	Built-in silencer, direct exhaust

*1 Specify DIN rail length with "D□" at the end. (Enter the number of stations inside □.)
The number of stations that may be displayed is longer than the manifold number of stations. Example: -D09
*2 When "-B" is selected, a back pressure check valve is included in all stations of the manifold. If the back pressure check valve is used only for the station that need it, then specify the station location in the manifold specification. ("-B" is not necessary)
*3 Specify "-K" for wiring specification for cases below. (Except C kit)
- All single wiring - Single and double mixed wiring
Specify the wiring specification in the manifold specification so that the number of solenoids is the maximum number of solenoids or less. (Standard wiring specification is double wiring)
* For specifying two or more options, enter them alphabetically. Example: -BKN

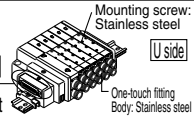
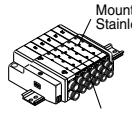
1(P), 3(R) port size

Nil	1(P), 3(R) port, One-touch fittings for ø10
00T	1(P), 3(R) port, One-touch fittings for ø3/8"

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

Electrical entry

Kit type		Lead wire connector location	Cable specifications	Stations	Max. number of stations for special wiring specifications	*1 Max. number of solenoids
F kit The electric parts are made of copper. D side. D-sub connector kit 	FD0	D side	D-sub connector (25P) kit, without cable	1 to 12 stations	16 stations	24
	FD1		D-sub connector (25P) kit, with 1.5 m cable			
	FD2		D-sub connector (25P) kit, with 3.0 m cable			
	FD3		D-sub connector (25P) kit, with 5.0 m cable			
C kit Connector kit 	C	—	Connector kit	1 to 16 stations	—	—

*1 The maximum number of stations should not be more than the maximum number of solenoids. (The number of solenoids are counted as: 1 for single solenoids and 2 for type 3P and 4P double solenoids.)
* Refer to the **Web Catalog** for manifold spare parts.

Blanking plate assembly

25A-SSQ2000-10A-4

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

[Option]

How to Order Valves

25A–SQ2 1 4 1 □ – 5 L □ 1 – C6 – □ – □ – □

- **Series compatible with secondary batteries**
- **Type of actuation**

1	2-position single
2	2-position double (Double solenoid)∗1
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
A	4-position dual 3-port valve (N.C./N.C.)
B	4-position dual 3-port valve (N.O./N.O.)
C	4-position dual 3-port valve (N.C./N.O.)

∗1 For double solenoid specification, the function symbol below is "D."

- **Seal type**

1	Rubber seal

- **Function**

Nil	Standard (0.4 W DC)
B	Quick response type (0.95 W)
D∗1	2-position double (Double solenoid specifications)
N	Negative COM
R∗2	External pilot specifications

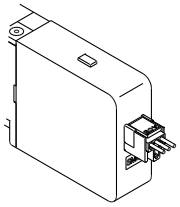
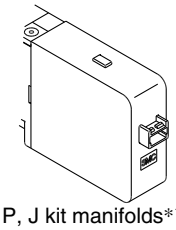
∗1 "D" is specified for 2-position double.
∗2 Except dual 3-port valves.
∗ When two or more symbols are specified, indicate them alphabetically.

- **Coil voltage**

5	24 VDC
6	12 VDC

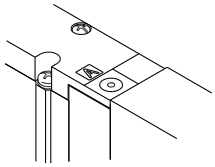
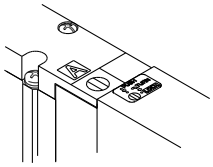
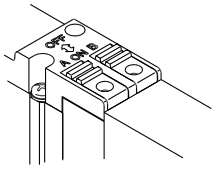
∗ Light/Surge voltage suppressor is built-in.

- **Electrical entry**

L	LO
Plug connector type with 300 mm lead wire 	Plug connector type without connector  For F, P, J kit manifolds∗1

∗1 Indicate "LO" when ordering centralized wiring type manifolds, F, P, and J kits, since the lead wire will be attached to the manifold side.

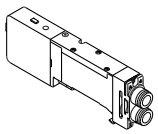
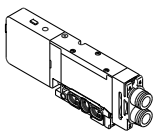
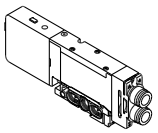
- **Manual override**

Nil	B	D
Non-locking push type (Tool required)	Locking type (Tool required)	Slide locking type (Manual type) ∗ Only side ported type applicable
		

- **CE/UKCA-compliant**

Nil	—
Q	CE/UKCA-compliant

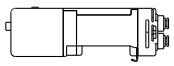
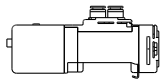
- **With/Without manifold block**

Nil	M	MB
Without manifold block	With manifold block	With manifold block, built-in back pressure check valve
	 ∗ Lead wire is not included.	 ∗ Lead wire is not included.
• When ordering with manifolds • When only valves are required.	For adding stations	

- **Port plug mounting port**

Nil	None
A	Port 4(A)
B	Port 2(B)

- **Cylinder port**

C4	One-touch fitting for ø4	Side ported	
C6	One-touch fitting for ø6		
C8	One-touch fitting for ø8		
L4	One-touch fitting for ø4	Top ported ∗1	
L6	One-touch fitting for ø6		
L8	One-touch fitting for ø8		

∗1 Can be changed to side ported configuration.

One-touch Fittings Part Nos.

Port size			One-touch fittings part no.
Cylinder port	Metric size	ø4 One-touch fitting (Straight type)	**90-VVQ1000-51A-C4**
		ø6 One-touch fitting (Straight type)	**90-VVQ1000-51A-C6**
		ø8 One-touch fitting (Straight type)	**90-VVQ1000-51A-C8**
1 (P), 3 (R) port	Metric size	ø10 One-touch fitting (Straight type)	**90-VVQ2000-51A-C10**

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Base Mounted

Plug Lead Unit

5-Port Solenoid Valve
25A-VQZ1000 Series
Single Unit

[Option]

How to Order Valves

25A – VQZ 1 [1] 5 1 [ ] – 5 [M] [ ] 1 – [01] – [ ]

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

Body type

5	Base mounted

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—
R	External pilot type	○	○
BR	High speed response/External pilot type	(0.9 W) ○	—

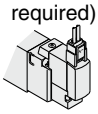
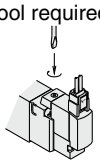
Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

G: Grommet (DC specification)	L: L-type plug connector with lead wire	LO: L-type plug connector without connector	M: M-type plug connector with lead wire	MO: M-type plug connector without connector
	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor

Manual override

Nil: Non-locking push type (Tool required)	B: Locking type (Tool required)
	

Port size

Symbol	Port size
Nil	Without sub-plate
01	Rc1/8

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

⚠ Caution

Use standard (DC) specification for continuous duty.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Base Mounted

Plug Lead Unit

5-Port Solenoid Valve
25A-VQZ1000 Series
Manifold Connector Kit

[Option]

How to Order Manifolds

25A-VV5QZ 1 5-08 C6 C-R-□

Series compatible with secondary batteries

Series

1	VQZ1000

Manifold type

5	Base mounted

Stations

02	2 stations
⋮	⋮
20	20 stations

Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread
CM*1	Mixture of port sizes

*1 Specify port mixture/with port plug by the manifold specification sheet.
Port mixture and port plug are available only for One-touch fitting type.

Kit type

C	Connector

Option

Nil	None
R	External pilot type

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valves

25A-VQZ 1 1 5 1 □-5 M □ 1-□

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

Body type

5	Base mounted

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—
R	External pilot type	○	○
BR	High speed response/ External pilot type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

Symbol	Electrical entry	Light/surge voltage suppressor
G	Grommet (DC specification)	None
L	L-type plug connector with lead wire	Yes
LO	L-type plug connector without connector	
M	M-type plug connector with lead wire	
MO	M-type plug connector without connector	

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

⚠ Caution

Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

5-Port Solenoid Valve
25A-VQZ1000 Series
Single Unit

[Option]

How to Order Valves

25A-VQZ 1 1 2 1 □-5 M □ 1-C6-□-□

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center
8	3-port for mixture mounting N.C.
9	3-port for mixture mounting N.O.

∗ 3-port for mixture mounting is only available for port size C4 or C6.

Body type

2	Body ported

Seal type

1	Rubber seal

Function

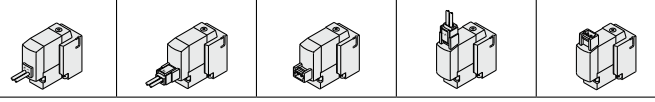
Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

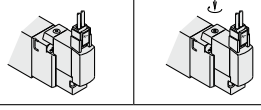
Electrical entry

G: Grommet (DC specification)	L: L-type plug connector with lead wire	LO: L-type plug connector without connector	M: M-type plug connector with lead wire	MO: M-type plug connector without connector
	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor	With light/ surge voltage suppressor



Manual override

Nil: Non-locking push type (Tool required)	B: Locking type (Tool required)

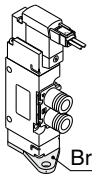


Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread

Option

Nil: None
F: With bracket (2-position single type only)



CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

∗ CE/UKCA-compliant: For DC only.

⚠ Caution

Use standard (DC) specification for continuous duty.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Body Ported

Plug Lead Unit

5-Port Solenoid Valve
25A-VQZ1000 Series
Manifold Connector Kit

[Option]

How to Order Manifolds

25A-VV5QZ 1 2-08 C-□

Series compatible with secondary batteries

Series

1	VQZ1000

Manifold type

2	Body ported

Stations

02	2 stations
⋮	⋮
20	20 stations

Kit type

C	Connector

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valves

25A-VQZ 1 1 2 1 □-5 M □ 1-C6-□

Series compatible with secondary batteries

Series

1	VQZ1000 body width 10 mm

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5*1	3-position pressure center
8*1	3-port for mixture mounting N.C.
9*1	3-port for mixture mounting N.O.

*1 3-port for mixture mounting is only available for port size C4 or C6.

Body type

2	Body ported

Seal type

1	Rubber seal

Function

Symbol	Specifications	DC	AC
Nil	Standard	(0.35 W) ○	○
B	High speed response type	(0.9 W) ○	—

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC [115 VAC] (50/60 Hz)
4	220 VAC [230 VAC] (50/60 Hz)
5	24 VDC
6	12 VDC

Electrical entry

Symbol	Electrical entry	Light/surge voltage suppressor
G	Grommet (DC specification)	None
L	L-type plug connector with lead wire	Yes
LO	L-type plug connector without connector	
M	M-type plug connector with lead wire	
MO	M-type plug connector without connector	

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Port size [4(A), 2(B) port]

Symbol	Port size
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting
M5	M5 thread

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

* CE/UKCA-compliant: For DC only.

⚠ Caution

Use standard (DC) specification for continuous duty.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Plug-in Unit
Base Mounted
25A-VQ1000/2000 Series
Double check block (Separated)

How to Order

Double check block

25A−VQ1000−FPG−C4M5−F

- **25A**: Series compatible with secondary batteries
- **C4**: IN side port size
- **M5**: OUT side port size
- **F**: Option

IN side port size

M5	M5 thread
C3	ø3.2 One-touch fitting
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting

OUT side port size

M5	M5 thread
C3	ø3.2 One-touch fitting
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting

Option

Nil	None
F	With bracket
D	DIN rail mounting (For manifold)
N	Name plate

∗ When two or more symbols are specified, indicate them alphabetically. Example) -DN

Manifold (DIN rail mounting)

25A−VVQ1000−FPG−06

- **25A**: Series compatible with secondary batteries
- **06**: Stations

When ordering a double check block, order the DIN rail mounting [-D].

Stations

01	1 station
⋮	⋮
16	16 stations

<Ordering example>
25A-VVQ1000-FPG-06…6-station manifold
∗ **25A-VQ1000-FPG-C4M5-D; 3 sets**
∗ **25A-VQ1000-FPG-C6M5-D; 3 sets**
} **Double check block**

Bracket Assembly

Part no.	Tightening torque
25A-VQ1000-FPG-FB	0.22 to 0.25 N·m

Double check block

25A−VQ2000−FPG−01 01−F

- **25A**: Series compatible with secondary batteries
- **01**: IN side port size
- **01**: OUT side port size
- **F**: Option

IN side port size

01	Rc 1/8
02	Rc 1/4
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

OUT side port size

01	Rc 1/8
02	Rc 1/4
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

Option

Nil	None
D	DIN rail mounting (For manifold)
F	With bracket
N	Name plate

∗ When two or more symbols are specified, indicate them alphabetically. Example) -DN

Manifold (DIN rail mounting)

25A−VVQ2000−FPG−06

- **25A**: Series compatible with secondary batteries
- **06**: Stations

When ordering a double check block, order the DIN rail mounting [-D].

Stations

01	1 station
⋮	⋮
16	16 stations

<Ordering Example>
25A-VVQ2000-FPG-06…6-station manifold
∗ **25A-VQ2000-FPG-C6C6-D; 3 sets**
∗ **25A-VQ2000-FPG-C8C8-D; 3 sets**
} **Double check block**

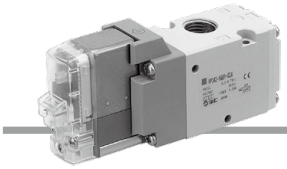
Bracket Assembly

Part no.	Tightening torque
25A-VQ2000-FPG-FB	0.8 to 1.0 N·m

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Rubber Seal
3-Port/Pilot Poppet Type
25A-VP342/542/742 Series



How to Order

∗ Only DIN and conduit terminal types are available for AC mode. Refer to the electrical entry for details.

Body ported **25A**–VP[3]42[ ][ ][ ]–[5][D][ ][ ]1–[01][ ][A]–[ ]

Series compatible with secondary batteries

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot
R	External pilot

Pressure specification

Nil	Standard (0.7 MPa)
K	High pressure type (1.0 MPa)

Coil specification

Nil	Standard
T	With power-saving circuit (DC only)

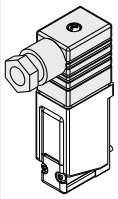
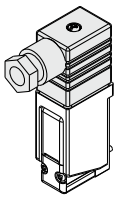
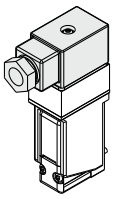
∗ Be sure to select the power-saving circuit type if it is to be continuously energized for long periods of time.
∗ "T" type is only available for DC mode. When "T" is selected, only "Z" type of light/surge voltage suppressor is available.

Rated voltage

DC	
5	24 VDC
6	12 VDC

AC (50/60 Hz)	
1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]
7	240 VAC
B	24 VAC

Electrical entry

	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
	[IP65 compatible]	[IP65 compatible]	[IP65 compatible]
			
	D: With connector	**Y**: With connector	**T**: Conduit terminal
CE/UKCA-compliant DC	CE UKCA	CE UKCA	CE UKCA
CE/UKCA-compliant AC	CE UKCA	CE UKCA	CE UKCA

Thread type

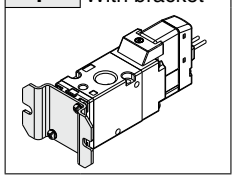
Nil	Rc
F	G
N	NPT
T	NPTF

Type of actuation

A	N.C. (Normally closed)
B	N.O. (Normally open)

Bracket

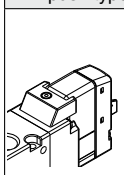
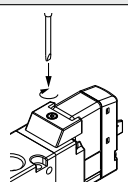
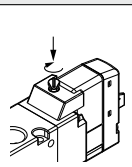
Nil	Without bracket
F	With bracket



Port size

Symbol	Port size	VP300	VP500	VP700
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type
		

Light/surge voltage suppressor

		DC	AC
Nil	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—∗1
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

∗1 There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Rubber Seal
3-Port/Pilot Poppet Type
25A-VP344/544/744 Series

How to Order

∗ Only DIN and conduit terminal types are available for AC mode. Refer to the electrical entry for details.

Base mounted **25A–VP 3 4 4 □□□–5 D □□ 1–01 □ A**

Series compatible with secondary batteries

Series

3	VP300
5	VP500
7	VP700

Pilot type

Nil	Internal pilot
R	External pilot

Pressure specifications

Nil	Standard (0.7 MPa)
K	High pressure type (1.0 MPa)

Coil specifications

Nil	Standard
T	With power-saving circuit (DC only)

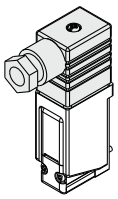
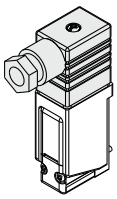
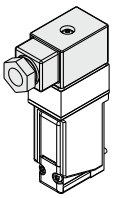
∗ Be sure to select the power-saving circuit type if it is to be continuously energized for long periods of time.
∗ "T" type is only available for DC mode. When "T" is selected, only "Z" type of light/surge voltage suppressor is available.

Rated voltage

DC	
5	24 VDC
6	12 VDC

AC (50/60 Hz)	
1	100 VAC
2	200 VAC
3	110 VAC [115 VAC]
4	220 VAC [230 VAC]
7	240 VAC
B	24 VAC

Electrical entry

	DIN terminal	DIN (EN175301-803) terminal	Conduit terminal
	[IP65 compatible]	[IP65 compatible]	[IP65 compatible]
			
	D: With connector	**Y**: With connector	**T**: Conduit terminal
CE/UKCA-compliant DC	CE UKCA	CE UKCA	CE UKCA
CE/UKCA-compliant AC	CE UKCA	CE UKCA	CE UKCA

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

Type of actuation

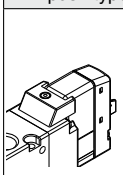
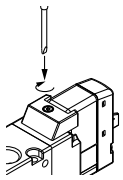
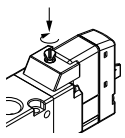
A	N.C. (Normally closed)
B	N.O. (Normally open)

Port size (Sub-plate)

Symbol	Port size	VP300	VP500	VP700
Nil	Without sub-plate∗1			
01	1/8	○	—	—
02	1/4	○	○	—
03	3/8	—	○	○
04	1/2	—	—	○

∗1 With a gasket and two mounting bolts.

Manual override

Nil: Non-locking push type	D: Push-turn locking slotted type	E: Push-turn locking lever type
		

Light/surge voltage suppressor

		DC	AC
Nil	Without light/surge voltage suppressor	○	○
S	With surge voltage suppressor	○	—∗1
Z	With light/surge voltage suppressor	○	○
R	With surge voltage suppressor (Non-polar)	○	—
U	With light/surge voltage suppressor (Non-polar)	○	—

∗1 There is no "S" type for AC mode, since a rectifier prevents surge voltage generation.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

3-Port Solenoid Valve Modular Type/Residual Pressure Release Valve

25A-VP346E/546E/746E/946E Series

CE UKCA c UL us RoHS

∗ Excludes the high-pressure (K) type

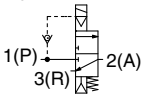
How to Order

Modular Type **25A – VP 5 46 E □ – 5 DZ □ 1 – R – □**

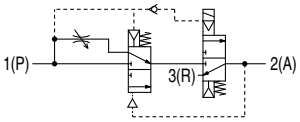
Series compatible with secondary batteries

Symbol

Residual pressure relief 3-port solenoid valve



With soft start-up function



Series

3	VP300
5	VP500
7	VP700
9	VP900

Solenoid valve type

E	Residual pressure relief 3-port solenoid valve

Pressure specifications

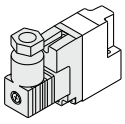
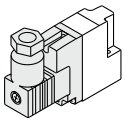
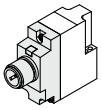
		Series			
		VP300	VP500	VP700	VP900
Nil	Standard (0.7 MPa)	●	●	●	●
K	High pressure (1.0 MPa)	–	●	●	–

Rated voltage

DC

5	24 VDC

Electrical entry

DIN terminal	DIN (EN 175301-803C) terminal	M12 connector
		
D: With connector **DZ**: With connector/ With light/surge voltage suppressor	**Y**: With connector **YZ**: With connector/ With light/surge voltage suppressor	**KOZ**: Without connector

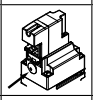
Flow direction

Nil	Left to right
R	Right to left

Soft start-up function

Nil	None
S	With soft start-up function

Manual override

			Series			
			VP300	VP500	VP700	VP900
Nil	Non-locking push type		●	●	●	●
A	Non-locking push type (Manual)		–	●	●	–
E	Push-turn locking type (Manual)		●	●	●	●

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Safety Standard ISO 13849-1 Certified (Corresponding to Categories 3 and 4)

Safety Exhaust Valve/ Modular Connection Type

25A-VPX400 Series

How to Order

25A – VPX406 ❶ T – 5 KO NZ – D – A4 ❽

Series compatible with secondary batteries

❶ Pressure specifications

Nil	Standard (0.25 to 0.7 MPa)
K	High pressure (0.25 to 1.0 MPa)

❷ Coil specifications

T	With power-saving circuit

❸ Rated voltage

5	24 VDC

❹ Electrical entry

KO	M12 connector, Without connector cable
K	With M12 connector, Cable length: 3000 mm

∗ When option "K" (With M12 connector cable) is selected, 2 cables are included.

❺ Light/surge voltage suppressor and common specification

Symbol	Specifications	Compatible CAT.
NZ	With light/surge voltage suppressor Negative common	4
D1Z	With light/surge voltage suppressor Double common, Wiring type 1	3
D2Z	With light/surge voltage suppressor Double common, Wiring type 2	3

❻ Pressure sensor wiring specifications

D	Double common
N1	Negative common, Wiring type 1
N2	Negative common, Wiring type 2

❼ Connected AC size

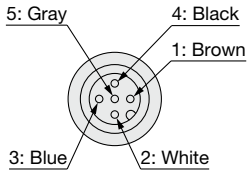
Symbol	Connected AC size 1/2 port	Flow rate characteristics (2 ⇒ 3)		Port size 3 port
		C [dm³/(s·bar)]	b	
A3	AC30	25.0	0.20	G1"
A4	AC40	31.0	0.15	
A6	AC50/60	35.8	0.10	

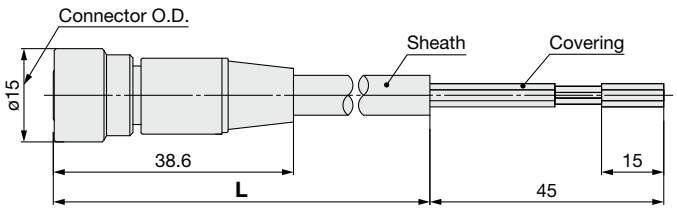
❽ Thread type [Pressure gauge connection thread (1/8")]

Symbol	Thread type
Nil	Rc
N	NPT
F	G

∗ Port (exhaust port) is only G thread regardless of thread type.

M12 Connector Cable





Part no.	Lead wire length (**L**)
V100-200-6-10	1000 mm
V100-200-6-30	3000 mm
V100-200-6-50	5000 mm

Sheath O.D.	ø6.5 mm
Cover diameter	ø1.8 mm
Conductor cross section	0.5 mm²

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

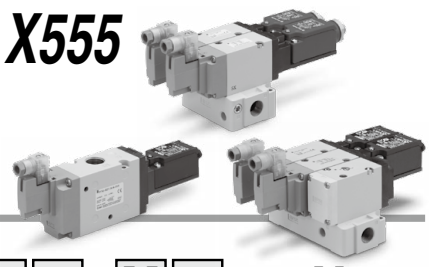
Safety Standard ISO 13849-1 Certified

3-Port Solenoid Valve/Residual Pressure Release Valve with Detection of Main Valve Position

25A-VP500/700-X536, X538, X555

*1 Refer to the Web Catalog for compliant products.

RoHS



How to Order

Residual pressure release valve	25A-VP[5]42[R]-5DZ1-[03][ ]-[M][ ] -X536
Dual residual pressure release valve	25A-VP[5]44[R]-5DZ1-[03][ ]-[M][A] -X538
Dual residual pressure release valve with soft start-up function	25A-VP[5]44[ ]-5DZ1-[03][ ]-[M][ ][ ] -X555

Series

5	VP500
7	VP700

Body

2	Body ported
4	Base mounted

Pilot

Nil	Internal pilot
R	External pilot

Voltage

5	24 VDC

Electrical entry

D	DIN terminal

Light/surge voltage suppressor

Z	With light/surge voltage suppressor

Port size

	Port size	VP500	VP700
03	3/8"	●	—
04	1/2"	—	●

Thread

Nil	Rc
F	G
N	NPT

Safety limit switch/Wiring

Nil	G1/2 (Made by OMRON)
M	M12 connector (Made by OMRON)
S1	M12 connector (Made by Rockwell Automation)

With check valve (Only external pilot)

	Check valve	Applicable tube O.D.	Thread		
			Rc	G	NPT
Nil	None	—	●	●	●
A	Yes	ø6	●	—	—
B		ø1/4"	—	—	●

* For the internal pilot, the symbol is nil.

Throttle

Nil	Variable throttle
10	ø1 fixed orifice
15	ø1.5 fixed orifice
20*1	ø2 fixed orifice

*1 VP700 only

Internal Pilot Type

⚠ Caution

Valve may not operate properly when air supply to P port is not adequate and the supply pressure to the valve is lower than 0.25 MPa, the minimum operating pressure. Be careful with insufficient supply pressure.

Piping for External Pilot Type

⚠ Caution

The product may not operate when the external pilot pressure is insufficient due to simultaneous operation or restricted air piping. In this case, use the check valve (AKH series) with the external pilot port, change the piping size or adjust the set pressure to provide a constant pressure of 0.25 MPa or more.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

3-Port Solenoid Valve
Direct Operated Poppet Type
25A-VT317 Series
Rubber Seal

[Option]
∗ CE/UKCA-compliant:
For DIN terminal type.

How to Order

25A-V T 317 ☐ - 1 G ☐ - 02 ☐ - ☐

Body type

T	Body ported
O	Manifold

Series compatible with secondary batteries

Valve option

Nil	Standard
E∗1	Continuous duty type
V∗1	For vacuum

∗1 Semi-standard

Rated voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3∗1	110 VAC (50/60 Hz)
4∗1	220 VAC (50/60 Hz)
5	24 VDC
6∗1	12 VDC
7∗1	240 VAC (50/60 Hz)

∗1 Semi-standard
∗ Applicable only for DIN terminal type.

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

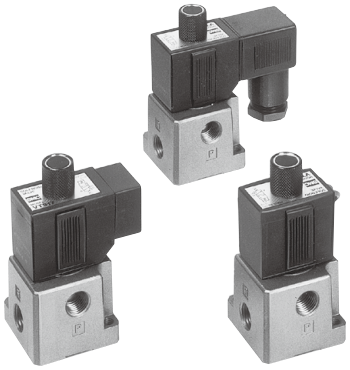
CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant∗1

∗1 Applicable only for DIN terminal type.

Port size

Nil	Without port (For manifold)
02	1/4 (8A)



Electrical entry

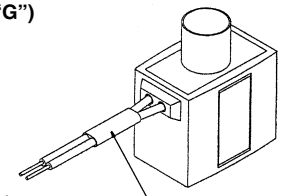
		CE/UKCA-compliant
G	Grommet, 300 mm lead wire	—
H	Grommet, 600 mm lead wire	—
C	Conduit	—
D	DIN terminal	●

Light/Surge voltage suppressor

Symbol \ Electrical entry	G	H	C	D	D Only (CE/UKCA-compliant)
Nil	●	●	●	●	●
S	●∗1	●∗1	●∗1	●	●
Z	—	—	—	●	●

S: With surge voltage suppressor
∗1 Refer to the figure below.
Z: With light/surge voltage suppressor

Surge voltage suppressor mounting part (For "G")



Accessory

Model	Applicable manifold type	Description (Part no.)
25A-VO317	Common or individual exhaust	O-ring (KA00066, 4 pcs.)∗1 Bolts (CA01161, 2 pcs.)

∗1 It is not applied to "Continuous duty type." Refer to the accessories in the **Web Catalog**.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

How to Order Manifold

25A – VV317 – 02 – 05 1 – 02 – A – ☐

Valve stations

02	2 stations
⋮	⋮
20	20 stations

Max. 20 stations

Symbol

Symbol	Passage		Porting specifications
	P	R	A
1	Common	Common	Side
3	Common	Individual	Side

Option

Nil	Without mounting bracket
A	With mounting bracket*1

*1 Common exhaust type only

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant

How to Order Valve

25A – VO317 ☐ – 1 D ☐ – ☐

Valve option

Nil	Standard
E	Continuous duty type
V	For vacuum

Rated voltage

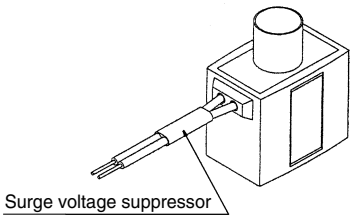
1	100 VAC 50/60 Hz
2	200 VAC 50/60 Hz
3	110 VAC 50/60 Hz
4	220 VAC 50/60 Hz
5	24 VDC
6	12 VDC
7	240 VAC 50/60 Hz

Light/Surge voltage suppressor

Symbol \ Electrical entry	G	H	C	D	CE/UKCA-compliant D Only
Nil	●	●	●	●	●
S	*1 ●	*1 ●	*1 ●	●	●
Z	–	–	–	●	●

S: With surge voltage suppressor
*1 Refer to the figure below.
Z: With light/surge voltage suppressor

Surge voltage suppressor mounting part (For "G")



Electrical entry

		CE/UKCA-compliant
G	Grommet, 300 mm lead wire	—
H	Grommet, 600 mm lead wire	—
C	Conduit	—
D	DIN terminal	●

CE/UKCA-compliant

Nil	—
Q	CE/UKCA-compliant*2

*2 Applicable only for DIN terminal type.

Blanking plate assembly part no.: **PVT317-53-3A** (With bolt, O-ring)

3-Port Solenoid Valve
Direct Operated Poppet Type
25A-VG342 Series
Rubber Seal

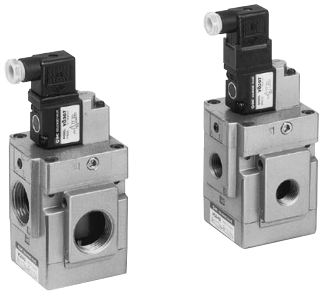
Low power consumption
4.8 W DC (Standard type)
2 W DC (Energy-saving type)

No lubrication required

Possible to use in vacuum or under low pressures
External pilot
Vacuum: Up to –101.2 kPa
Low pressure: 0 to 0.2 MPa

Changeable actuation:
N.C., N.O., or external pilot

Can be used as a selector or divider valve (External pilot)



How to Order

25A-VG342 □ - 5 D □ - 04 □ A - □

- **Series compatible with secondary batteries**

Valve option

Nil	Internal pilot
R	External pilot

Rated voltage

5	24 VDC
6*1	12 VDC

*1 Semi-standard

Electrical entry

D	DIN terminal

Light/Surge voltage suppressor

Nil	None
Z	With light/surge voltage suppressor (Except grommet type)

Port size

04	1/2
06	3/4
10	1

Thread type

Nil	Rc

Passage symbol

Nil	External pilot
A	N.C. (Normally closed)
B	N.O. (Normally open)

Pilot valve option

Nil	Standard type
Y*1	Energy-saving type (DC only)
E*1	Continuous duty type

*1 Semi-standard

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

5-Port Air Operated Valve
25A-SYA5000/7000 Series

How to Order

A, B port size

Thread piping

Symbol	Port size	Applicable series
01	1/8	SYA5000
02	1/4	SYA7000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	ø4 One-touch fitting	SYA5000
C6	ø6 One-touch fitting	
C8	ø8 One-touch fitting	
C8	ø8 One-touch fitting	SYA7000
C10	ø10 One-touch fitting	

Series

5	SYA5000
7	SYA7000

Body ported 25A – SYA [5] [1] 20 – [C6]

Base mounted 25A – SYA [5] [1] 40 – [ ]

Series compatible with secondary batteries

Series

5	SYA5000
7	SYA7000

Type of actuation

1	2-position single
2	2-position double
3	3-position closed center
4	3-position exhaust center
5	3-position pressure center

Port size

Symbol	Port size	Applicable series
Nil	Without sub-plate	
02	1/4 With sub-plate	SYA5000
02	1/4 With sub-plate	SYA7000
03	3/8 With sub-plate	

How to Order Manifold Base

Same manifolds as the SY series (Non plug-in type) are prepared.
(For 20, 41 and 42 Types)

25A-SS5YA$^{5}_{7}$- Fill the same as 25A-SS5Y $^{5}_{7}$.

(Refer to pages 65 and 67.)

∗ Specify the part numbers for valves and options together beneath the manifold base part number.

<Example>

25A-SS5YA5-42-03-02···· 1 set (Type 42, 3-station manifold base part no.)
∗ 25A-SYA5140 ····· 1 set (Single air operated valve part no.)
∗ 25A-SYA5240 ····· 1 set (Double air operated valve part no.)
∗ 25A-SY5000-26-1A ····· 1 set (Blanking plate the assembly part no.)
→The asterisk denotes the symbol for the assembly.
Prefix it to the part nos. of the solenoid valve, etc.

∗ Manifold mounting screws and gaskets are included with the manifold (type 20), but they are not included when ordering a body ported air operated valve as a single unit. Order them separately if necessary. (For details, refer to page 70.)

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

3-Port Air Operated Valve
25A-SYJA500/700 Series

How to Order

Port size

Symbol	Port size	Applicable series
M5	M5 x 0.8	SYJA500
01	1/8	SYJA700

Body ported 25A – SYJA 5 1 2 – M5 □ – □

Base mounted 25A – SYJA 5 1 4 – □ □

Series compatible with secondary batteries

Series

5	SYJA500
7	SYJA700

Type of actuation

1	Normally closed
2	Normally open

Port size

Symbol	Port size	Applicable series
Nil	Without sub-plate	
01	1/8 With sub-plate	SYJA500 SYJA700
02	1/4 With sub-plate	SYJA700

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

∗ Excludes M5

Bracket

Nil	Without bracket
F	With bracket

∗ The bracket is not mounted.

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Manifold Type for the SYJA500

Type 20

How to Order

25A – SS3YJA5 – 20 – 05

Stations

02	2 stations
:	:
20	20 stations

∗ For more than 6 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA5□2

Applicable blanking plate assembly
25A-SYJ500-10-1A

Type 40

How to Order

25A – SS3YJA5 – 40 – 05 M5

Stations

02	2 stations
:	:
20	20 stations

A port size

M5	M5 x 0.8
01	1/8

∗ For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA5□4

Applicable blanking plate assembly
25A-SYJ500-10-3A

Type 41

How to Order

25A – SS3YJA5 – 41 – 05 – C6

Stations

02	2 stations
:	:
20	20 stations

A port size

M5	M5 x 0.8
01	1/8
C4	ø4 One-touch fitting
C6	ø6 One-touch fitting

∗ For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA5□4

Applicable blanking plate assembly
25A-SYJ500-10-3A

Manifold Type for the SYJA700

Type 20/21

How to Order

25A – SS3YJA7 – 20 – 05

Manifold type

20	Type 20
21	Type 21

Stations

02	2 stations
:	:
20	20 stations

∗ If there are more than 6 stations for type 20, or more than 9 stations for type 21, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA7□2

Applicable blanking plate assembly
25A-SYJ700-10-1A

Type 40/41

How to Order

25A – SS3YJA7 – 40 – 05 – 01

Manifold type

40	Type 40
41	Type 41

Stations

02	2 stations
:	:
20	20 stations

A port size

01	1/8

∗ If there are more than 6 stations for type 40, or more than 9 stations for type 41, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA7□4

Applicable blanking plate assembly
25A-SYJ700-10-2A

Type 42

How to Order

25A – SS3YJA7 – 42 – 05 – C6

Stations

02	2 stations
:	:
20	20 stations

A port size

01	1/8
C6	ø6 One-touch fitting
C8	ø8 One-touch fitting

∗ For more than 9 stations, supply air to both sides of P port and exhaust air from both sides of R port.

Applicable valve
25A-SYJA7□4

Applicable blanking plate assembly
25A-SYJ700-10-2A

Finger Valve

RoHS

25A-VHK□A Series

How to Order

25A–VHK 2 A – 04F – 04F □ □

Series compatible with secondary batteries

Valve model

2	2-port valve
3	3-port valve

1(P) port size

04F	ø4
06F	ø6
08F	ø8
01S	R1/8
02S	R1/4
03S	R3/8

2(A) port size

04F	ø4
06F	ø6
08F	ø8
01S	R1/8
02S	R1/4
03S	R3/8

Knob color

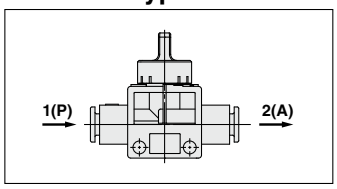
Nil (Standard)	2-port valve	Gray
	3-port valve	Blue
R (Option)	2-port valve	Red
	3-port valve	

Bracket

Nil	None
L	With L-bracket

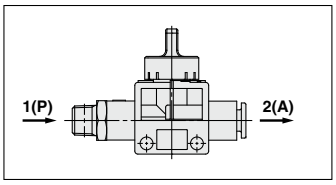
∗ Bracket and screws are attached.

Standard Type



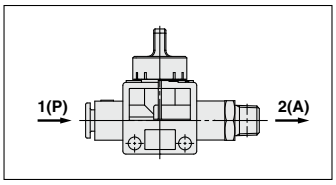
1(P): One-touch fitting
2(A): One-touch fitting

1(P) \ 2(A)	Applicable tubing O.D. [mm] ø4	ø6	ø8
Applicable tubing O.D. [mm] ø4	●		
ø6	●	●	
ø8		●	●



1(P): Male thread
2(A): One-touch fitting

1(P) \ 2(A)	Applicable tubing O.D. [mm] ø4	ø6	ø8
Port size R 1/8	●	●	●
1/4		●	●
3/8		●	●



1(P): One-touch fitting
2(A): Male thread

1(P) \ 2(A)	Port size R 1/8	1/4	3/8
Applicable tubing O.D. [mm] ø4	●		
ø6	●	●	●
ø8	●	●	●

∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

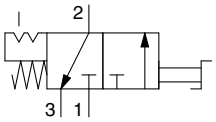
OSHA Standard Compliant Pressure Relief 3-Port Valve with Locking Holes

Single Action
25A-VHS20/30/40/50-D Series

RoHS

Double Action
25A-VHS20W/30W/40W/50W-D Series

Symbol



How to Order

25A – VHS 30 ❶ ❷ – ❸ 03 ❹ – ❺ – ❻ – D

- Series compatible with secondary batteries

- Option/Semi-standard: Select one each for **a to f**.
- Option/Semi-standard symbol:
  When more than one specification is required, indicate in alphanumeric order.

Example) 25A-VHS30-N03-BS-RZ-D

		Symbol	Description	❶ Body size 20	30	40	50
❷	Handle operation	Nil	Single action	●	●	●	●
		W	Double action	●	●	●	●
		+					
❸	Pipe thread type	Nil	Rc*1	●	●	●	●
		N	NPT	●	●	●	●
		F	G	●	●	●	●
		+					
❹	Port size	01	1/8	●	—	—	—
		02	1/4	●	●	●	—
		03	3/8	—	●	●	—
		04	1/2	—	—	●	—
		06	3/4	—	—	●	●
		10	1	—	—	—	●
		+					
❺ Option	a Mounting	Nil	Without mounting option	●	●	●	●
		B	With bracket	●	●	●	●
		+					
	b Silencer	Nil	Without silencer	●	●	●	●
		S	With built-in silencer (for EXH port)	●	●	●	●
		+					
❻ Semi-standard	c Handle color	Nil	Red	●	●	●	●
		K	Black	●	●	●	●
		+					
	d Handle material	Nil	Resin	●	●	●	●
		M	Metal	●	●	●	●
		+					
	e Flow direction	Nil	Flow direction: Left to right	●	●	●	●
		R	Flow direction: Right to left	●	●	●	●
		+					
	f Pressure unit	Nil	Product label in SI units: MPa	●	●	●	●
		Z*2	Product label in imperial units: psi	○*3	○*3	○*3	○*3

*1 The pipe thread type for the EXH port is G.
*2 For the pipe thread type: NPT only. This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)
*3 ○: For the pipe thread type: NPT only

Option/Part Nos.

Optional specifications	Model				
	25A-VHS20-D	25A-VHS30-D	25A-VHS40-D	25A-VHS40-06-D	25A-VHS50-D
Bracket assembly*1	25A-VHS24P-180AS	25A-VHS34P-180AS	25A-VHS44P-180AS	25A-VHS44P-180AS	25A-VHS54P-180AS
Silencer assembly*2	VHS24P-190AS	VHS34P-190AS	VHS44P-190AS	VHS54P-190AS	VHS54P-190AS

*1 The assembly consists of a bracket A/B and 2 mounting screws.
*2 The assembly consists of the element assembly and an O-ring.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Single Action)

25A-VHS20/30/40/50 Series

RoHS

How to Order

Single action 25A – VHS 40 – □ 04 A – B – □ – □

- **Series compatible with secondary batteries**
- **Pressure relief 3-port valve**
- **Body size**

Symbol
20
30
40
50

- **Thread type**

Nil	Rc
N	NPT
F	G

- **Port size**

Symbol	Port size	Body size			
		20	30	40	50
01	1/8	●	—	—	—
02	1/4	●	●	●	—
03	3/8	—	●	●	—
04	1/2	—	—	●	—
06	3/4	—	—	●	●
10	1	—	—	—	●

- **Handle/Bonnet material**

Symbol	Material
A	Flame-resistant PBT
B	Aluminum

- **Semi-standard specifications**

Symbol	Description
Nil	—
K	Handle color: Black
R	Flow direction: Right → Left
Z*1	psi as unit displayed on label

*1 Only for the NPT thread
This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

- **Options**

Symbol	Description
Nil	—
B	With bracket

- **Made to order**

Symbol	Description
X1	Body: Red

Option Part Nos.

Model	Bracket assembly part no.*1
25A-VHS20	VHS20PW-180AS-6
25A-VHS30	VHS30PW-180AS-6
25A-VHS40	VHS40PW-180AS-6
25A-VHS40-06	VHS40PW-180-06AS-6
25A-VHS50	VHS50PW-180AS-6

*1 Bracket/1 pc., Mounting screw/2 pcs.

OSHA standard (Occupational Safety and Health Administration Department of Labor)
For safety control, OSHA rule requires energy sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Conforming to OSHA Standard

Pressure Relief 3-Port Valve with Locking Holes (Double Action)

25A-VHS2510/3510/4510/5510 Series

RoHS

How to Order

Double action 25A-VHS 4 510-□ 04 A-B-□-□

Series compatible with secondary batteries

Pressure relief 3-port valve

Body size

Symbol
2
3
4
5

Double action

Thread type

Nil	Rc
N	NPT
F	G

Port size

Symbol	Port size	Body size			
		2	3	4	5
01	1/8	●	—	—	—
02	1/4	●	●	●	—
03	3/8	—	●	●	—
04	1/2	—	—	●	—
06	3/4	—	—	●	●
10	1	—	—	—	●

Handle/Bonnet material

Symbol	Material
A	Flame-resistant PBT
B	Aluminum

Made to order

Symbol	Description
X1	Body: Red

Semi-standard specifications

Symbol	Description
Nil	—
K	Handle color: Black
R	Flow direction: Right → Left
Z*1	psi as unit displayed on label

*1 Only for the NPT thread
This product is for overseas use only according to the New Measurement Act. (The SI unit type is provided for use in Japan.)

Options

Symbol	Description
Nil	—
B	With bracket

Option Part Nos.

Model	Bracket assembly part no.*1
25A-VHS2510	VHS20PW-180AS-6
25A-VHS3510	VHS30PW-180AS-6
25A-VHS4510	VHS40PW-180AS-6
25A-VHS4510-06	VHS40PW-180-06AS-6
25A-VHS5510	VHS50PW-180AS-6

*1 Bracket/1 pc., Mounting screw/2 pcs.

OSHA standard (Occupational Safety and Health Administration Department of Labor)

For safety control, OSHA rule requires energy sources for certain equipment be turned off or disconnected and that the device either be locked or labelled with a warning tag.

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.