

Side Ported

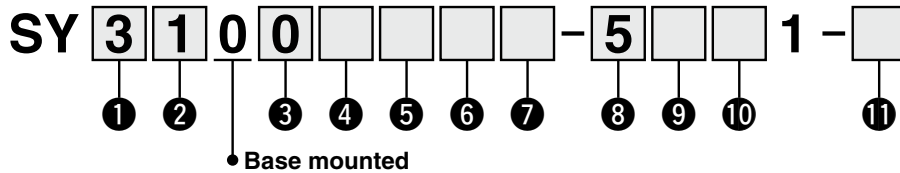
Bottom Ported

Plug-in

SY3000/5000/7000 Series

Note) 2-position double of rubber seal and manual override with locking function (D, E, F type) are excluded, because they don't comply with safety standard.

How to Order Valves (With mounting screw)



1 Series

3	SY3000
5	SY5000
7	SY7000

2 Type of actuation

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

*1 Only the metal seal type is available for the 2-position double valve.

*2 Only the rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

0	Rubber seal
1	Metal seal

4 Pilot type

Nil	Internal pilot
R	External pilot

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

Nil	None
H	Built-in

* Only the rubber seal type is available.

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

6 Pilot valve option

Nil	Standard (0.7 MPa)
B	Quick response type (0.7 MPa)
K*1	High pressure type (1.0 MPa)

*1 Only the metal seal type is available for the high pressure type.

7 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.

8 Rated voltage

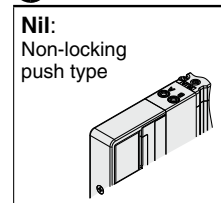
5	24 VDC
6	12 VDC

9 Light/surge voltage suppressor and common specification

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

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

10 Manual override



11 Type of mounting screw

Nil	Round head combination screw
B	Hexagon socket head cap screw
K	Round head combination screw (Drop prevention type)
H	Hexagon socket head cap screw (Drop prevention type)

SMC validation products have been validated based on ISO 13849-2: 2012 Annex A, B & D.

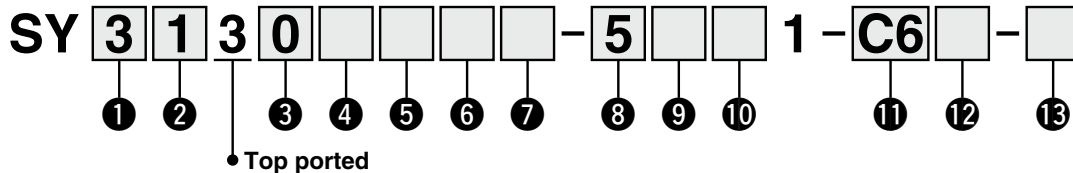
Plug-in

Top Ported

SY3000/5000/7000 Series

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How to Order Valves (With mounting screw)



1 Series

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5		Pressure center
A*2	4-position dual	N.C./N.C.
B*2		N.O./N.O.
C*2	3-port	N.C./N.O.

*1 Only the metal seal type is available for the 2-position double valve.

*2 Only the rubber seal type is available for the 4-position dual 3-port valve.

3 Seal type

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1	Metal seal

4 Pilot type

Nil	Internal pilot
R	External pilot

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Nil	None
H	Built-in

* Only the rubber seal type is available.

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

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* Be sure to select the power saving circuit type if the valve is to be continuously energized for long periods of time.

8 Rated voltage

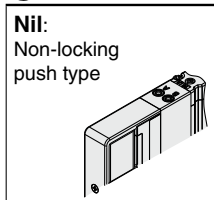
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Nil	—	—	Non-polar
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U	●		
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Z	●		
NS	—	Negative common	
NZ	●		

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

10 Manual override



11 A, B port size

Thread piping

Symbol	Port size	Applicable series
M5	M5 x 0.8	SY3000
01	1/8	SY5000
02	1/4	SY7000

One-touch fitting (Metric)

Symbol	A, B port	SY3000	SY5000	SY7000
C2	ø2	●	—	—
C3	ø3.2	●	—	—
C4	ø4	●	●	—
C6	ø6	●	●	●
C8	ø8	—	●	●
C10	ø10	—	—	●
C12	ø12	—	—	●

One-touch fitting (Inch)

Symbol	A, B port	SY3000	SY5000	SY7000
N1	ø1/8"	●	—	—
N3	ø5/32"	●	●	—
N7	ø1/4"	●	●	●
N9	ø5/16"	—	●	●
N11	ø3/8"	—	—	●

12 Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

* Only Nil is available for M5.

13 Type of mounting screw

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B	Hexagon socket head cap screw
K	Round head combination screw (Drop prevention type)
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