



Solenoid Valve SY5120-5WOU-C6F-Q

URL: <https://www.sxplc.com/solenoid-valve-sy5120-5wou-c6f-q>

Product data sheet

Type	Solenoid Valves	Application	Single Unit
Mounting Orientation	Direct	Voltage	DC24V
Specification	Standard / Lubrication Free	Valve Type	5-Port Valve
Actuation	[Single] Single	Status at Power Off	Self-Recovery (Pressure Differential Return)
Valve Positions	2-Position Exhaust	Applicable Cylinder Diameter(Ø)	80 or Less
Pipe Port Type	G	Port Size	1/8
Connecting Tube Diameter	-	Driving Type	Pilot Type Spool
Pilot Air Supply	Internal	Seal Type	Soft Seal
Manual Switch	Non-Locking	Plumbing	Direct Plumbing
Flow Coefficient (Cv)	0.49	Coil specifications	Standard
Lead wire electrical entry	L plug connector / No connector	Manual	Non-locking, push type
Indicator light / Surge voltage suppressor	With indicator light / surge voltage suppressor (non-polarized)	Bracket	No bracket
Made to order	-	CE compliant	Yes

specifications			
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5 Port Solenoid Valve Body Ported/Single Unit



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

SY3000/5000/7000/9000 Series

How to Order

SY **5** **1** **20** - **5** **L** - **01** - - - -

Series

3	SY3000
5	SY5000
7	SY7000
9	SY9000

Type of actuation

1	2 position single (A) 4 2 (B) (EA) 5 1 3 (EB) (P)
2	2 position double (A) 4 2 (B) (EA) 5 1 3 (EB) (P)
3	3 position closed center (A) 4 2 (B) (EA) 5 1 3 (EB) (P)
4	3 position exhaust center (A) 4 2 (B) (EA) 5 1 3 (EB) (P)
5	3 position pressure center (A) 4 2 (B) (EA) 5 1 3 (EB) (P)

Note) For details about Symbol of the 3 position type of the SY9000 series, refer to page 467.

Coil specifications

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

• Power saving circuit is not available in the case of D, DO, Y, YO or WC 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, Y, DO and YO is only available with 12 and 24 VDC.
• For type WC, DC voltage is only available.
Note) AC-type models that are CE-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	D, Y. With connector
G: Lead wire length 300 mm	L: With lead wire (Length 300 mm)	M: With lead wire (Length 300 mm)	MN: Without lead wire	
H: Lead wire length 600 mm	LN: Without lead wire	LO: Without connector	MO: Without connector	DO, YO: Without connector

CE compl: DC ●, AC —

M8 connector

WO: Without connector cable

WC: With connector cable (Note)

• LN, MN type: with 2 sockets.
• For DIN terminal of SY3000 series, refer to page 639.
• "Y" type is a DIN terminal conforming to EN-175301-803C (former DIN43650C). For details, refer to page 638.
• For connector cable of M8 connector, refer to page 641.
• M8 connector conforming to IEC60947-5-2 standard is also available. Refer to page 623 for details.
• Refer to page 638 for the lead wire length of L and M plug connectors.
• Refer to page 639 for the connector assembly with cover for L and M plug connectors.
Note) Enter the cable length symbols in □. Please be sure to fill in the blank referring to page 642.

Bracket

Nil: Without bracket
F1: With foot bracket (2 position single only)

F2: With side bracket

• SY9000 has no bracket.

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
03	3/8	SY9000

One-touch fitting (Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SY3000
C6	One-touch fitting for ø6	SY3000
C4	One-touch fitting for ø4	SY5000
C6	One-touch fitting for ø6	SY5000
C8	One-touch fitting for ø8	SY5000
C8	One-touch fitting for ø8	SY7000
C10	One-touch fitting for ø10	SY7000
C8	One-touch fitting for ø8	SY9000
C10	One-touch fitting for ø10	SY9000
C12	One-touch fitting for ø12	SY9000

One-touch fitting (Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø 1/2"	SY3000
N7	One-touch fitting for ø 1/4"	SY3000
N3	One-touch fitting for ø 1/2"	SY5000
N7	One-touch fitting for ø 1/4"	SY5000
N9	One-touch fitting for ø 1/2"	SY7000
N9	One-touch fitting for ø 1/2"	SY7000
N11	One-touch fitting for ø 3/8"	SY9000
N9	One-touch fitting for ø 1/2"	SY9000
N11	One-touch fitting for ø 3/8"	SY9000

Thread type

Nil	Rc
F	G
N	NPT
T	NPTF

• Except for M5

Made to Order

Nil	—
X20	Body ported external pilot (Refer to page 624.)
X90	Main valve fluor rubber (Refer to page 624.)

CE-compliant

Nil	—
Q	CE-compliant

Note) AC-type models that are CE-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, 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 (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.

Note) When placing an order for body ported solenoid valve as a single unit, mounting screw for manifold and gasket are not attached. Order them separately, if necessary. (For details, refer to page 467.)

