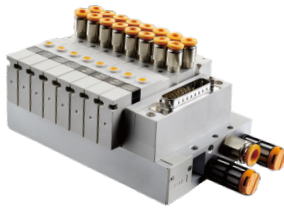


SV

Solenoid Valve&Valve Terminal



Integrated valve terminal



Standard valve terminal



Valve slice(top ported)



Valve slice(side/bottom ported)

Product Features

- Integrated valve terminal , integrated wiring ;Adopt 25 pins D-sub connector .
- Centralized air inlet and exhaust, available for top ported ,side ported and bottom ported , compact structure.
- Patent design: the pilots of double control valve are on same side; Wiring and piping are on same side.
- 5/2 ways,5/3 ways,5/4 ways(2pcs 3/2 ways) can be integrated on same valve terminal.
- 0.8W per coil.

How to Order?

SV Integrated valve terminal

Series No.	Body Size	Piping Type	Valve quantity for different port	Voltage	Pilot Type	Wiring Type	Manifold Port	Mounting	Thread Type
S: Standard SN:Energy-saving	V: Top ported VM: Side ported VB: Bottom ported	1: 1 series 2: 2 series	Qty (Max.24 links for single control Max.12 links for double control)	E4: DC24V	Blank: Internal pilot WB: External pilot①	Blank: Double control wiring (max.12 links) S: Single control wiring (max.24 links) (Note:Mix wiring is available to customize)	Blank: Without accessories D: With DIN rail clip and 1M guide rail D0: With DIN rail clip, no guide rail DIN guide rail packed separately)		Blank: G

Code	Function	Remark
S	5/2 single	
D	5/2 double	
C	5/3 center closed	
P	5/3 center pressure	
E	5/3 center exhaust	
Y ①	2pcs 3/2 (N.C.)	assembly sequence, 1st link start from U side
H ①	2pcs 3/2 (N.O.)	
U ①	2pcs 3/2 (N.O./N.C.)	
YK ①	2pcs 3/2 (N.C.) spring return	
HK ①	2pcs 3/2 (N.O.) spring return	
UK ①	2pcs 3/2 (N.O./N.C.) spring return	
B	blind plate	
TA	port 1 air supply pressure separate	
TG	port 3/5 air exhaust pressure separate	
TL	port 1/3/5 air supply & exhaust pressure separate	
N	air supply & exhaust module	

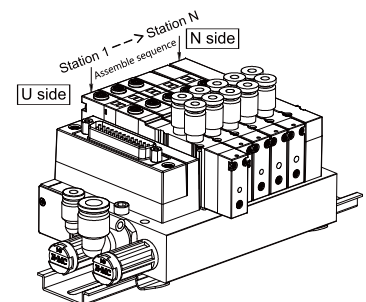
No.	Code	Port size	Remark
1 Series	M5	M5: M5 port	
	C4	φ 4 one-touch fitting(ZPOC04-M5C)	assembly sequence, 1st link start from U side
	M7	M7: M7 port	
2 Series	C6	φ 6 one-touch fitting(ZPOC06-M7C)	
	O6	1/8 port	
	C4	φ 4 one-touch fitting(ZPOC04-01G)	
	C6	φ 6 one-touch fitting(ZPOC06-01G)	
	C8	φ 8 one-touch fitting(ZPOC08-01G)	

Code	Port entry	1Series	2Series	Remark
Blank	Both side without silencer, fitting, plug	-	-	1) plugs are mounted on the opposite of the selected ports;
U	U side with silencer, PC fitting			2) only U,U1 is available for bottom ported
N	Station N with silencer, PC fitting			3) No need this code if order manifold only
UN	Both side with silencer, PC fitting			
UL	U side with silencer, PL fitting			
NL	Station N with silencer, PL fitting			
UNL	Both side with silencer, PL fitting			
U1	U side with silencer, POC fitting			
N1	Station N with silencer, POC fitting			
UN1	Both side with silencer, POC fitting			

Note: ①Y/H/U is not available for external pilot due to the air return.
YK/HK/UK is available for external pilot due to the spring return.

Order Example:

1. Same valve: S series standard valve, 1 series body, top ported, 6 links 5/2 double controled SV5212, port size M5, DC24V, G thread, internal pilot, double control wiring, both side without silencer, fitting, pug, the ERP code is S1V-6D-M5E4
2. Mix different valve: S series standard valve, 1 series body, top ported, see right picture : station 1 is 5/3 center closed SV5312C, station 2 is 5/2 double control SV5212, station 3 is 2pcs 3/2 (N.O.) SV5412H , station 4 & station 5 are 5/2 single SV5211, station 6 is blind plate,station 1 & 2 with φ 6 one-touch fitting ZPOC06-M7C, station 3-5 with φ 4 one-touch fitting ZPOC04-M7C, DC24V,G thread, external pilot, double control wiring, U-sub side with silencer, φ 8 PL fitting, with DIN rail clip and 1M guide rail, the ERP code is S1V-CDH2SB-2C63C4AE4-WB-UL-D
3. Mix different valve with pressure separate: S series standard valve, 1 series body, top ported, see right picture : station 1 is 5/3 center closed SV5312C, port 1 air supply pressure separate between station 1 and station 2,station 2 is 5/2 double control SV5212, station 3 is air supply & exhaust module ,station 4 is 2pcs 3/2 (N.O.) SV5412H port 1 air supply pressure separate between station 4 and station 5,station 5 is 5/2 single SV5211, station 6 is blind plate,working port is M7 , DC24V, internal pilot, double control wiring,both sides without silencer, fittings ,plugs, G thread, the ERP code is S1V-CTADNHTASB-M7E4



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Valve slice

Series No.	Piping Type	Ports	Positions	Body Size	Controls	Original Status	Port Size	Voltage	Pilot Type	Wiring	Thread Type
S: Standard SN: Energy-saving	V: Piping on valve VM: Piping on manifold (VM series should work with manifold)	5: 5 ports	1: 1 series 2: 2 series 2: 2 position 3: 3 position 4: Dual 3/2 valves	1: 1 series 2: 2 series	1: Single control 2: Double control C: 3 position 5 port(center close) P: 3 position 5 port(center pressure) E: 3 position 5 port(center exhaust) ① Y: Dual 3/2 valves(N.C.) ① H: Dual 3/2 valves(N.O.) ① U: Dual 3/2 valves(N.C./N.O.) ① YK: Dual 3/2 valves(N.C.) spring return ① HK: Dual 3/2 valves(N.O.) spring return ① UK: Dual 3/2 valves(N.C./N.O.) spring return	(Note: Available for V type only)	M5: M5 M7: M7 06: 1/8"	E4: DC24V Blank: Internal pilot WB: External pilot ①	Blank: G P: PT T: NPT	Blank: None 0.3M: 0.3m wiring 0.6M: 0.6m wiring 1M: 1m wiring (Note: Available for V type only)	

Note: ①Y/H/U is not available for external pilot due to the air return.YK/HK/UK is available for external pilot due to the spring return(not available for standard valve group either separate use)

Order Example:

S series standard type, piping on valve, 2 station 5 port, 1 series valve body, single control, M5 port, DC24V, internal pilot, 0.3 meter wiring. the ERP code is :SV5211-M5E4-0.3M.

SV standard valve terminal

Series No.	5/2 way	Body Size	Qty	Valve quantity for different port	Voltage	Manifold Port	Wiring	Thread Type
SV: Standard SN: Energy-saving	52	1: 1 series 2: 2 series	Qty	Valve quantity for different port	E4: DC24V		Blank: Without wiring 0.3M: 0.3M wiring 0.6M: 0.6M wiring 1M: 1M wiring	Blank: G P: PT T: NPT

Code	Function	Remark
S	5/2 single	
D	5/2 double	
C	5/3 center closed	
P	5/3 center pressure	
E	5/3 center exhaust	
Y ①	2pcs 3/2 (N.C.)	assembly sequence, 1st link start from U side
H ①	2pcs 3/2 (N.O.)	
U ①	2pcs 3/2 (N.O./N.C.)	
YK ①	2pcs 3/2 (N.C.) spring return	
HK ①	2pcs 3/2 (N.O.) spring return	
UK ①	2pcs 3/2 (N.O./N.C.) spring return	
B	blind plate	

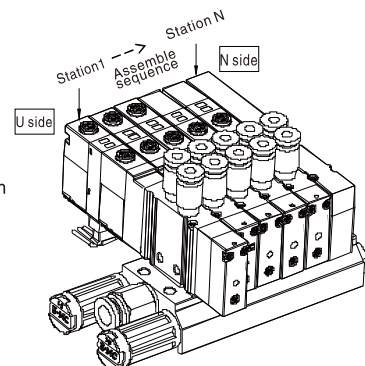
No.	Code	Port size	Remark
1Series	M5	M5: M5 port	
	C4	φ 4 one-touch fitting(ZPOC04-M5C)	assembly sequence, 1st link start from U side
	M7	M7: M7 port	
2Series	C6	φ 6 one-touch fitting(ZPOC06-M7C)	
	06	1/8 port	
	C4	φ 4 one-touch fitting(ZPOC04-01G)	
	C6	φ 6 one-touch fitting(ZPOC06-01G)	
	C8	φ 8 one-touch fitting(ZPOC08-01G)	

Code	Port entry	1Series	2Series	Remark
Blank	Both side without silencer, fitting, plug	-	-	
U	U side with silencer, φ 8 PC fitting	φ 8	φ 10	1) plugs are mounted on the opposite of the selected ports;
N	Station N with silencer, φ 8 PC fitting			
UN	Both side with silencer, φ 8 PC fitting			
UL	U side with silencer, φ 8 PL fitting			
NL	Station N with silencer, φ 8 PL fitting	φ 10	φ 12	2) only U,U1,UL is available for bottom ported
UNL	Both side with silencer, φ 8 PL fitting			
U1	U side with silencer, φ 10 POC fitting			
N1	Station N with silencer, φ 10 POC fitting			
UN1	Both side with silencer, φ 10 POC fitting			

Order Example:

1. Same valve: SV series valve block, 1 series body, 6 links 5/2 double controlled SV5212, port size M5, DC24V, G thread, both side without silencer, fitting, plug, the ERP code is SV521-6D-M5E4

2. Mix different valve: SV series valve block, 1 series body, see right picture : station 1 is 5/3 center closed SV5312C, station 2 is 5/2 double control SV5212, station 3 is 2pcs 3/2 (N.O.) SV5412H, station 4 & station 5 are 5/2 single SV5211, station 6 is blind plate. All working ports with ZPOC04-M5C fittings
the ERP code is SV521-CDH2SB-C4E4-U



How to Order?

Manifold					
SV	52	1	—	N	F — Thread Type
SV series	1: 1 series valve body 2: 2 series valve body	2 position 5 port		F: Manifold	Blank: G P: PT T: NPT
		1: 1 station 2: 2 stations 3: 3 stations 24: 24 stations			

Connector			
Connector Type	Cable Core	Cable Length	Injection Molding
D25: D-sub connector 25 pins	1M: 1m cable 2M: 2m cable 3M: 3m cable (Note: please contact EMC for customized length)	A	
	25: 25 cores (24 coils or less) 15S: 15 cores (14 stations for single control or less) 15D: 15 cores (7 stations for double control or less) 08S: 8 cores (7 stations for single control or less)		

Wiring		
Wiring Series	Category	Wiring Length
SV5211: Single control SV5212: Double control	P01: plug-in cable	0.3M: 0.3m wiring 0.6M: 0.6m wiring 1M: 1m wiring (Note: Please contact EMC to customize wiring)

Blind plate				
Series NO.	Blind Plate Type	Category	2 Position 5 Port	Valve Size
S: Standard V: Top port VM: Side port VY: Common type		BP	52	1:1 series 2:2 series

Air supply & exhaust module

Series No.	Body Size	Piping Type	Category	—	□	—	Thread Type
S: Standard	1: 1 series 2: 2 series	V: Top ported VM: Side ported	NP				Blank: G

No.	Code	Port size	Remark
1 Series	M5	M5: M5 port	when fittings required, the silencer will be mounted together
	C4	φ 4 one-touch fitting(ZPOC04-M5C)	
	M7	M7: M7 port	
	C6	φ 6 one-touch fitting(ZPOC06-M7C)	
2 Series	06	1/8 port	
	C6	φ 6 one-touch fitting(ZPOC06-01G)	
	C8	φ 8 one-touch fitting(ZPOC08-01G)	

Explain of pressure separate

Diagram of pressure separate	Explain of pressure separate
	different options for pressure separate
	TA: port 1 air supply pressure separate
	TG: port 3/5 air exhaust pressure separate
	TL: port 1/3/5 air supply & exhaust pressure separate
	1. 1pc Air supply & exhaust module requests 1 station 2. Use air supply & exhaust module to control the third or more different pressure and exhaust. 3. External pilot port 14 is not available for pressure separate.

SV Series Solenoid Valve&Valve Terminal



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Specifications

Model	SV5211 SVM5211	SV5212 SVM5212	SV5412Y/U/H SVM5412Y/U/H	SV5412YK/UK/HK SVM5412YK/UK/HK	SV5312C/E/P SVM5312C/E/P	SV5221 SVM5221	SV5222 SVM5222	SV5422Y/U/H SVM5422Y/U/H	SV5422YK/UK/HK SVM5422YK/UK/HK	SV5322C/E/P SVM5322C/E/P
Sectional Area (mm)	M5/C4: 5(CV=0.28) M7/C6: 7(CV=0.39)		M5/C4: 4.6(CV=0.26) M7/C6: 6.5(CV=0.36)			16.2 (CV=0.9)		14.5 (CV=0.8)		
Positions	2 position 5 port		dual 3/2 valves		3 position 5 port	2 position 5 port		dual 3/2 valves		3 position 5 port
Working Pressure (MPa)	0.15~0.8			0.2~0.8		0.15~0.8			0.2~0.8	
Pilot pressure (external pilot type)(MPa)	0.25~0.8		0.25~0.8 (Exceed working pressure 0.1 Mpa at least)		0.25~0.8			0.25~0.8 (Exceed working pressure 0.1 Mpa at least)		0.25~0.8
Port Size	M5/M7 (Not available for VM series)					G1/8				
Working Medium	Clean air(After 40µm filtration)									
Pilot Exhaust Type	Internal pilot type / External pilot type									
Reset Type	air return , air return+spring return									
Lubrication	No required									
Proof Pressure (Mpa)	1.2									
Working Temperature (°C)	-20~70 (No freezing)									
Working Voltage	DC24V									
Voltage Range	± 10%									
Power Consumption	Standard: 0.8W, energy-saving: 0.35W									
Insulation Class	F Class									
Protective Class	IP40 Dust Proof									
Max.acting Frequency	5/2: 5 cycles/s; 5/3: 3 cycles/s									
Activate Time(0.5MPa)	15ms or less					20ms or less				
Weight (g)	55.5	64.5	65	65	68	88	97	98.5	98.5	104

Symbol

