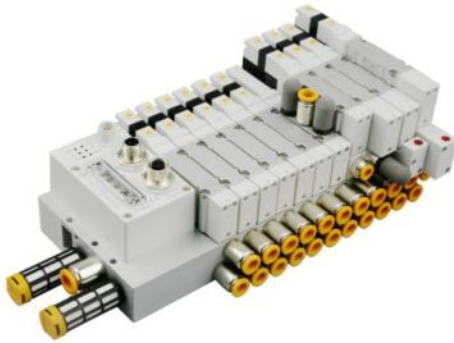




Application Scenarios

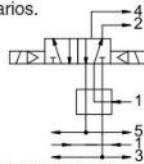
1: Individual intake stack module

1. Application scenarios:

- (1) Used as air supply ports for different pressures on the same valve island;
- (2) Suitable for single/dual/three position solenoid valves;
- (3) Suitable for both internal and external pilot scenarios.

2. Circuit diagram:

5/2 way dual electric control valves Individual intake stack module Manifold



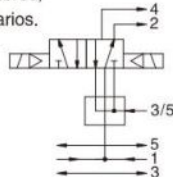
2: Individual exhaust stack module

1. Application scenarios:

- (1) When the exhaust of a valve affects other valves on the same valve island, a individual exhaust stack module can be added at this valve position;
- (2) Suitable for single/dual/three position solenoid valves;
- (3) Suitable for both internal and external pilot scenarios.

2. Circuit diagram:

5/2 way dual electric control valves Individual exhaust stack module Manifold



3: Intake cut-off stack module (with residual pressure release)

1. Application scenarios:

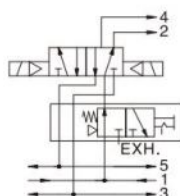
- (1) Used when cutting off the air supply to each valve separately, i.e. air pressure hot plugging, without stopping the machine to replace the solenoid valve;
- (2) Suitable for single/dual/three position center exhaust and center pressure solenoid valves;
- (3) Due to the inability to release residual pressure, when equipped with a center close valve, please use the port 2 and 4 piping in combination with a three-way valve, etc;
- (4) As the product cannot cut off the external pilot air source, it can only be used for internal pilot applications.

2. Manual button operation instructions:

- (1) Use a straight screwdriver to press the manual button to the bottom at the PUSH position, and then rotate it clockwise 90° to the LOCK position;
- (2) Unlock the manual button and rotate counterclockwise 90° to the PUSH position.

3. Circuit diagram:

5/2 way dual electric control valves Intake cut-off stack module (with residual pressure release) Manifold



Product Features

- Ip65
- Individual intake stack module: used on the same valve island in situations with different pressures, it can supply air to the solenoid valve separately without occupying the valve position.
- Individual exhaust stack module: When using centralized exhaust on the same valve island, the exhaust between valves can affect each other and cause actuator misoperation, especially when using three position relief valves and single acting cylinders. The individual exhaust stack module can be used without occupying the valve position.
- Intake cut-off stack module (with residual pressure release): It can independently cut off the gas supply to designated solenoid valves and discharge residual pressure on the same valve island without cutting off the main valve island gas source. It can achieve separate maintenance and replacement of solenoid valves or cylinders with gas insertion and removal. *Mid position check stack module (with residual pressure release): Equipped with a three position five way medium release valve on the same valve island, the cylinder can be stopped for a long time, and equipped with two position five way valves can prevent the cylinder from falling, thereby improving the safety performance of the valve island.

4: Mid position check stack module (with residual pressure release)

1. Application scenarios:

- (1) When the cylinder needs to maintain the middle position for a long time, it should be used with a three position relief valve and cannot be combined with three position sealing type, medium pressure type, or two two position three-way solenoid valves;
- (2) Equipped with two position single and dual electric control valves, it can prevent the end of cylinder stroke from falling;
- (3) suitable for internal and external pilot applications.

2. Specifications:

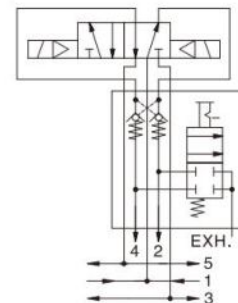
Maximum operating pressure	0.8MPa
Minimum operating pressure	0.2MPa
Maximum operating frequency	3 times per second

3. Circuit diagram:

5/2 way dual electric control valves

Mid position check stack module (with residual pressure release)

Manifold

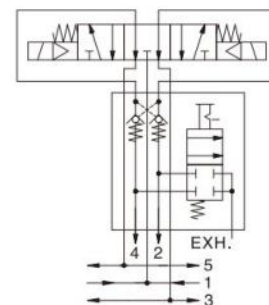


Prevent falling: equipped with 5/2 way dual electric control valves

5/3 way center exhaust

Mid position check stack module (with residual pressure release)

Manifold



Intermediate maintenance: equipped with a 5/3 center exhaust valve

How to order

SVMT series stack module

Series Code	Type	I.D. Code	Component Code	5/2	Body Size
S	VM	T	MP: Individual intake stack module Ø 6 ① MPF: Individual intake stack module Ø 4 ① MPL: Individual intake stack module Ø 8 ① XP: Individual exhaust stack module VP: Air intake cut-off stack module (with residual pressure release) WP: Mid position check stack module (with residual pressure release)	52	2 : 2 Series ②

Note:

- ① There are three options for connecting the separate intake stack module, Ø6/Ø4/Ø8.
- ② The stack module is only suitable for the 2 series, plate valve island.

Order Example: Individual intake stack module Ø6, ERP code SVMTMP522.

ES2VMT+Fieldbus Valve Terminal

Series No.	Body Size	Piping Type	I.D. Code	Communication Protocol	Qty	Valve quantity for different port	Voltage	Pilot Type	Manual Button	Wiring Type	Manifold Port	Mounting	Thread Type
2: 2 series	VM: Side ported	T	ES: Fieldbus valve terminal ESN: Energy-saving Fieldbus valve terminal				E4: DC24V	Blank: Internal pilot WB: External pilot ①	Blank: Press & Rotate Lock H: Without Lock	Blank: Double control wiring (max.24 links)	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 (if order with guide rail, the guide rail will be packed separately)		Blank: G P: PT T: NPT

Protocols type	Communication Protocol	Output	Max Valve Quantity
EC32	EtherCAT	32	16
EC48		48	24
PN32	PROFINET	32	16
PN48		48	24
EP32	EtherNet/IP	32	16
EP48		48	24
CC32	CC-Link	32	16
CC48		48	24
DP32	Profibus-DP	32	16
DP48		48	24
CP32	CANopen	32	16
CP48		48	24
LK32	IO-Link	32	16
LK48		48	24
DB25	D-SUB25	24	12
DB44	D-SUB44	42	21

series	code	Port size	Remark
2	06	1/8port	assembly sequence, 1st link start from U side
C4	04one-touch fitting(ZPOC04-01)		
C6	06one-touch fitting(ZPOC06-01)		
C8	08one-touch fitting(ZPOC08-01)		

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	
N ②	air supply & exhaust module	
TA ③	port 1 air supply pressure separate	
TG ③	port 3/5 air exhaust pressure separate	
TL ③	port 1/3/5 air supply & exhaust pressure separate	
M ④	Individual intake stack module Ø6	Added after the corresponding valve position code
MF ④	Individual intake stack module Ø4	
ML ④	Individual intake stack module Ø8	
X	Individual exhaust stack module	
V ⑤	Air intake cut-off stack module(with residual pressure release)	
W ⑥	Mid position check stack module(with residual pressure release)	

Code	Port Entry	2 Series	Remark
Blank	Both side without silencer, fitting, plug	-	
U	U side with silencer, PC fitting		1. plugs are mounted on the opposite of the selected ports;
N	Station N with silencer, PC fitting		2. only U,U1, UL is available for bottom ported
UN	Both side with silencer, PC fitting		
UL	U side with silencer, PL fitting	Ø10	
NL	Station N with silencer, PL fitting		
UNL	Both side with silencer, PL fitting		
U1	U side with silencer, PL fitting	Ø12	
N1	Station N with silencer, POC fitting		
UN1	Both side with silencer, POC fitting		

Note

- ① Y/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;
- ② When the intake connection of the intake and exhaust module is C4/C6/C8, the exhaust port is equipped with a muffler by default.
When the connection is 1/8, the exhaust port is not equipped with a muffler by default;
- ③ The pressure zoning characteristics are the same as the SV series;
- ④ There are three options for connecting the individual intake stack module: 06/04/08;
- ⑤ The intake cut-off module cannot cut off the external pilot air, so it cannot be used in external pilot situations;
- ⑥ The mid position check stack module cannot be used for 5/3 center close, 5/3 center pressure, and 2x3/2, that is, W cannot be combined with C/P/Y/H/U/YK/HK/UK.

Basic principles of ordering code:

When two or more adjacent valve positions have the same function, use the same number of valve positions to represent the total number of valve positions. For example, if the first to fourth valve positions are dual electronic control solenoid valves and all four valve positions contain separate intake stacking modules, the code is DMDMDMDM, simplified as 4DM. This principle applies to all valve groups or valve island ordering codes.

ES2VMT Stacking Module Valve Terminal



1

ES2VMT

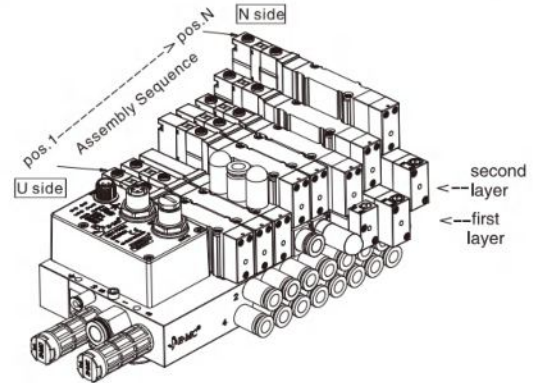
Order Example:

1、 When using the same specification valve and stacking module on the same layer: S series standard type, 2 series, side ported, 8–position 5/2 way dual electric control solenoid valve SVMT5222, the first to sixth valve positions are equipped with separate intake stacking module 06 air pipe, working port 06 air pipe fitting, working voltage DC24V, internal pilot type, wiring method is dual electric control wiring, the intake and exhaust ports are on both sides without muffler, fitting, plug, G thread. The ERP code is SVMT–6DM2D–C6E4.

2、 When using different specifications of valves and stacking modules on one layer: S series standard type, 2 series, side ported, the first to fourth valve positions are all 5/2 way dual electric control solenoid valves SVMT5222, the fifth to seventh valve positions are all 5/3 way center exhaust solenoid valves SVM5322E, the eighth valve position is a blind plate, the first and second valve positions are equipped with separate intake stacking modules 06 air pipes, the third and fourth valve positions are equipped with separate exhaust stacking modules, the fifth valve position is equipped with intake check stacking modules, the sixth and seventh valve positions are equipped with center check stacking modules, the working port 06 air pipe joint, the working voltage is DC24V internal pilot type, the wiring method is dual electric control wiring, and the intake and exhaust ports are on both sides without mufflers, fittings, or plugs. G thread. The ERP code is SVMT–2DM2DXEV2EWB–C6E4.

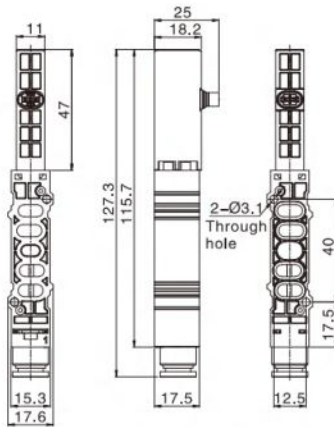
3、 When mixing two layers of different stacked modules with valves of different specifications: S series standard type, 2 series, side ported, The first and second valve positions are both 5/2 way dual electronic control solenoid valves SVM5222, the third valve position is the intake and exhaust module, the fourth and fifth valve positions are both 5/2 way single electronic control solenoid valves SVMT5221, the sixth, seventh, and eighth valve positions are all 5/3 way center exhaust solenoid valves SVMT5322E, the fourth valve position is equipped with a separate intake stack module 06 air supply, the fifth valve position is equipped with a separate exhaust stack module, the sixth valve position is equipped with an intake cutoff stack module, the seventh valve position is equipped with a mid position check stack module, and the eighth valve position is equipped with a separate intake stack module 06 air pipe on the first layer and a mid position check stack module on the second layer, with a working port $\phi 8$ air pipe fitting, working voltage of DC24V, internal pilot type, wiring method is dual electric control wiring, U–side installation of muffler, PL connector, installation of DIN rail buckle and 1–meter DIN rail, G–thread.

The ERP code is SVMT–2DNSMSXEVEMW–C8E4–UL–D(as shown in the above figure).

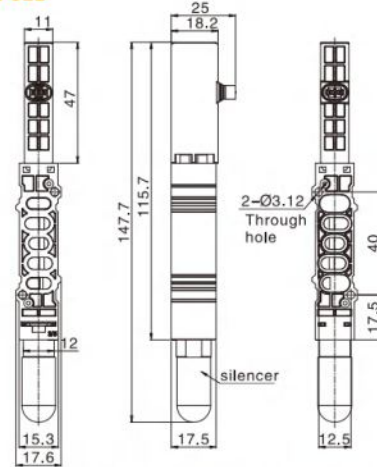


Main Dimension

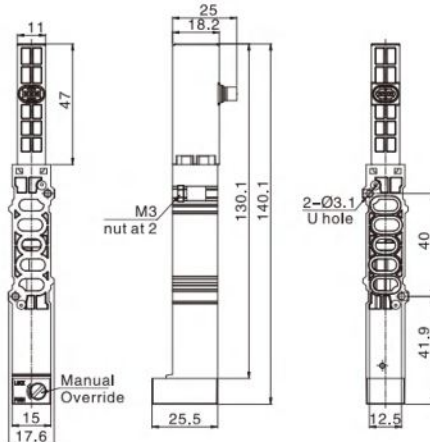
SVMTMP522



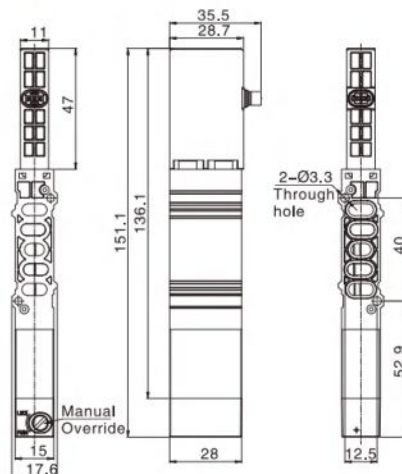
SVMTXP522



SVMTVP522

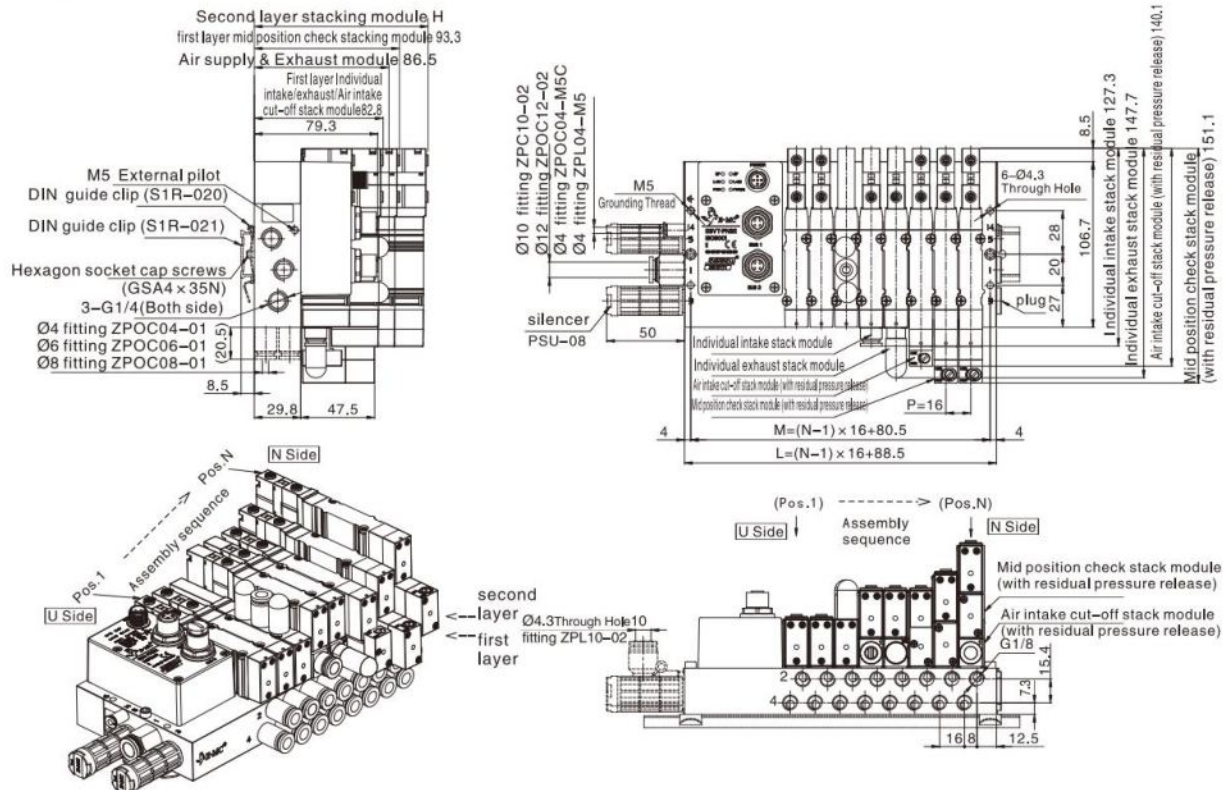


SVMTWP522



Main Dimension

ES2VMT side ported valve terminal + stacking module



Note: N indicates the number of valve positions.

Model	Individual intake/Exhaust + Air intake cut-off stack module	Individual intake/Exhaust + Mid position check stack module	Individual intake+Exhaust stack module	Mid position check+ Air intake cut-off stack module
Sign				
H	101.3	111.8	101.3	111.8

Model	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Sign																							
L	104.5	120.5	136.5	152.5	168.5	184.5	200.5	216.5	232.5	248.5	264.5	280.5	296.5	312.5	328.5	344.5	360.5	376.5	392.5	408.5	424.5	440.5	456.5
M	96.5	112.5	128.5	144.5	160.5	176.5	192.5	208.5	224.5	240.5	256.5	272.5	288.5	304.5	320.5	336.5	352.5	368.5	384.5	400.5	416.5	432.5	448.5

Stacking module combination	Unicorn head screws	Stacking module combination	Screws
 Valve second layer first layer Manifold second layer first layer Individual intake/exhaust stack module (with residual pressure release) Individual intake/exhaust stack module	M3X33 (2) M3X28 (2 No. 1 slots)	 Valve second layer first layer Manifold second layer first layer Individual intake/exhaust stack module Individual intake/exhaust stack module	M3X70 (2) M3X33 (2) M3X38.5 (2 No. 1 slots)
 Valve second layer first layer Manifold second layer first layer Mid position check stack module (with residual pressure release) Individual intake/exhaust stack module	M3X80 (2)	 Valve second layer first layer Manifold second layer first layer Air intake cut-off stack module (with residual pressure release) Mid position check stack module (with residual pressure release)	M3X33 (2) M3X38.5 (2 No. 1 slots)