

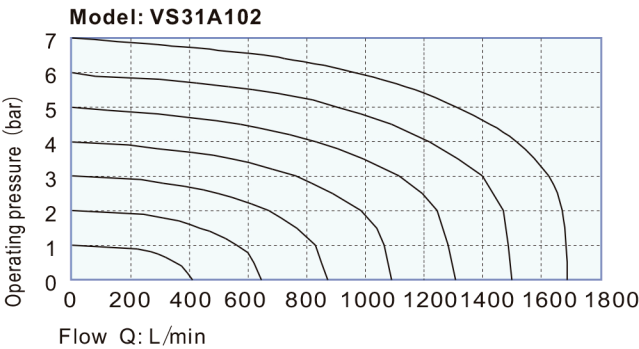
Symbol



Product feature

- 1. Pilot-oriented mode: Internal pilot or external pilot.
- 2. Structure in sliding column mode: good tightness and sensitive reaction.
- 3. Double control solenoid valves have memory function.
- 4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 5. No need to add oil for lubrication.
- 6. Affiliated manual devices are equipped to facilitate installation and debugging.
- 7. Several standard voltage grades are optional.
- 8. Integrate with the manifold to save installation space.

Flow chart



Ordering code

VS 3 1 A 1 02 - VC
 ① ② ③ ④ ⑤ ⑥ ⑦

①	Model VS: Solenoid valve	⑤	Acting 1: Single-acting 2: Double-acting
②	Valve Type 3: 3/2 Way	⑥	Port Size 01: 1/8" G 02: 1/4" G
③	Series Code 1: 1 Serie	⑦	Voltage DC: DC12V VC: DC24V CA: AC110V DA: AC220V VA: AC24V
④	Directional control A: 2 Positions		

Note: Please refer to page 140 for manifold specification and the order way.

VS31 SERIES

Specification

Valve	VS31A101	VS31A201	VS31A102	VS31A202
Fluid	Air(to be filtered by 40μm filter element)			
Acting	Internal pilot or external pilot			
Port size	1/8"G		1/4"G	
Valve type	3 port 2 position			
Lubrication	Not required			
Operating pressure	1.5~8bar(21~114psi)			
Proof pressure	15bar(215psi)			
Temperature ℃	-20~70			
Orifice size	14.0mm²(Cv=0.78)		16.0mm²(Cv=0.89)	
Material of body	Aluminum alloy			

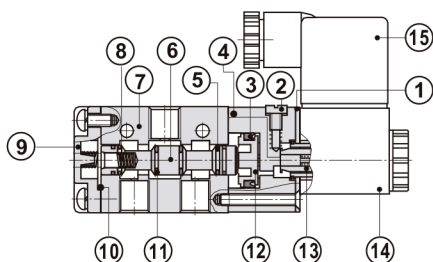
Coil specification

Item	Specification
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V
Scope of voltage	AC: $\pm$ 15% DC: $\pm$ 10%
Power consumption	AC:3.5VA DC:3.0W
Protection	IP65(DIN40050)
Temperature classification	B Class
Electrical entry	Terminal
Activating time	0.05 sec and below
Max. frequency ①	5 cycle/sec

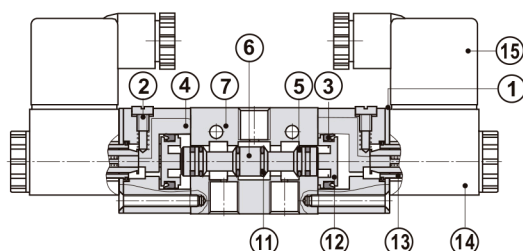
Note ①: The maximum actuation frequency is in the no-load state.

Inner structure

VS31A1



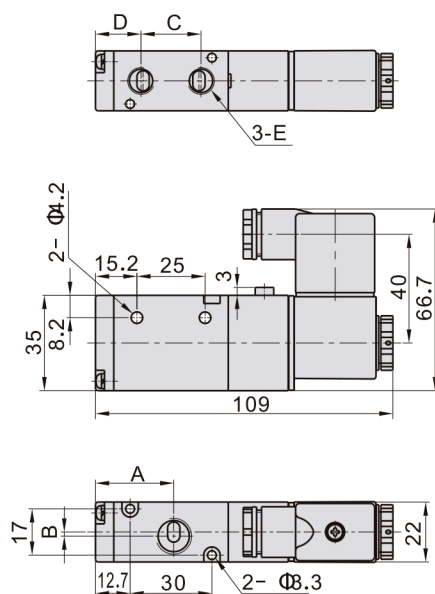
VS31A2



No.	Item
(1)	Fixed plate
(2)	Manual override
(3)	Piston O-ring
(4)	Pilot body
(5)	Spool packing
(6)	Spool
(7)	Body
(8)	Spool spring
(9)	Bottom cover
(10)	Bottom cover gasket
(11)	O-ring
(12)	Piston
(13)	Armature
(14)	Coil
(15)	Connector

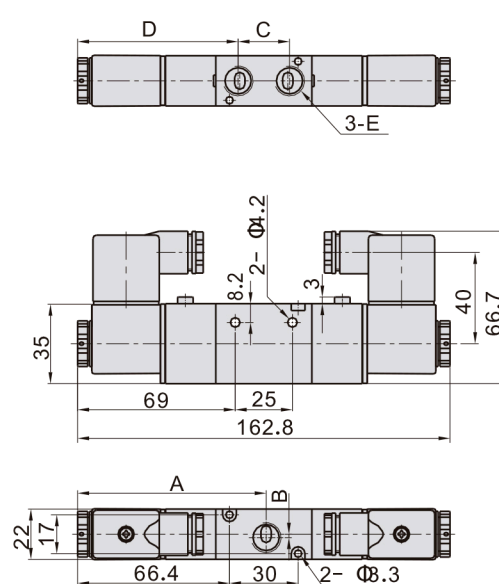
Dimensions

VS31A1



Model\Item	A	B	C	D	E
VS31A101	27.7	0	22	16.7	1/8"G
VS31A102	28.7	1.5	22.5	16.5	1/4"G

VS31A2



Model\Item	A	B	C	D	E
VS31A201	81.4	0	22	70.4	1/8"G
VS31A202	82.4	1.5	22.5	70.15	1/4"G