

Pneumatic (Direct Acting Solenoid Valve)



VA01 Series

Direct acting solenoid valve

Direct-acting solenoid valve for vacuum

- Compact and light weight.
- Two types of vacuum control and vacuum break control available.
- Quick response time.

Specification

Model No.		Unit	VA01PSV23	VA01PSP23	VA01PLV23	VA01PLP23
Fluid		Non-lubricated air				
Port size		M5				
Flow rate	Vacuum	ℓ/min (ANR)	22 (at -100kPa)	—	22 (at -100kPa)	—
	Vacuum break	ℓ/min (ANR)	—	40 (at 0.5MPa)	—	40 (at 0.5MPa)
Pressure range		-100~0kPa		0~0.5MPa	-100~0kPa	0~0.5MPa
Ambient temperature		°C	-10~50		-5~50	
Response time	ON	ms	5 or less		3	
	OFF	ms	5 (10) or less		—	
Min. energizing time		ms	—		50	
Rated voltage		V	DC24			
Allowable voltage fluctuation		%	±10			
Heat resistance grade		JIS grade B				
Power consumption		W	2			
Wiring		Lead wire, connector with lead wire		Connector with lead wire		
Shock resistance/vibration resistance		m/s ²	150/30		150/30	
Mass		g	25		30	

(Note) • When using the valve for vacuum break at less than 5°C by supplying compressed air, use dry air passing through an air dryer to prevent dew condensation and freezing.

• Response time in bracket () shows with surge suppressor.

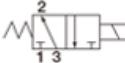
How to Order

Solenoid valve

VA01 PSV23-1L-M5

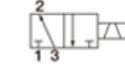
① Function

PSV23 : 2 position single solenoid for vacuum



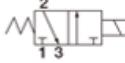
1:Vacuum supply port
2:Output port
3:Atmospheric release port

PLV23 : 2 position latching solenoid for vacuum



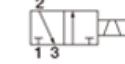
1:Vacuum supply port
2:Output port
3:Atmospheric release port

PSP23 : 2 position single solenoid for vacuum break



1:Pressure port
2:Output port
3:Exhaust port

PLP23 : 2 position latching solenoid for vacuum break



1:Pressure port
2:Output port
3:Exhaust port

② Voltage

1 DC24V

③ Wiring specifications

● Case of VA01PS□23

Bipolar type

L	Lead wire
PB	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
UB	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

● Case of VA01PL□23

NPN type

P	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
U	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

PNP type

PM	Connector with lead wire, Side outlet (With indicator light & surge suppressor)
UM	Connector with lead wire, Upside outlet (With indicator light & surge suppressor)

④ Wiring accessories

No mark	Without connector
E	Connector with lead wire (Length : 500mm)

⑤ Port size

No mark	Without sub-base
M5	M5×0.8 (Sub-base with mounting screw hole, M2)
L5	M5×0.8 (Sub-base with mounting screw hole, M3)

(Note) Model without sub-base is provided with mounting screws and a base gasket.

Manifold

MFS□-V01V3CC-M5

① Number of stations

2	2stations
⋮	⋮
10	10stations

④ Port size

M5 M5×0.8

② Type of valve

V3	P□V23 for vacuum
P3	P□P23 for positive pressure

③ Manifold specifications

CC	Common SUP, common EXH
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Blank plate (with 2 screws and a gasket)

Model No. V23-BP

Connector with lead wire

Lead wire length	Model No.	
	PSV/PSP	PLV/PLP
500mm	PC2-D24-CL5 (Standard)	PCL2-D24-CL5 (Standard)
1000mm	PC2-D24-CL10	PCL2-D24-CL10
3000mm	PC2-D24-CL30	PCL2-D24-CL30