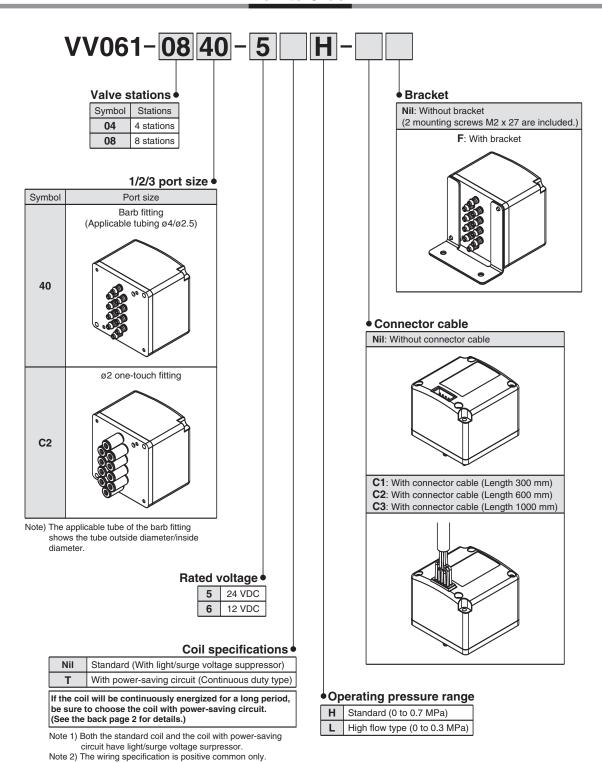
# **Unit Manifold Valve Compact Direct Operated 3 Port Solenoid Valve**

## Series VV061 (6

### **How to Order**



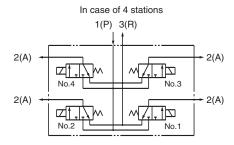


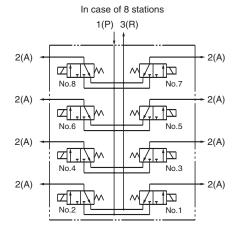
### Series VV061





#### **Symbol**





### **Unit Manifold Specifications**

Fluid		Air	
Operating pressure	Standard	0 to 0.7	
range (MPa)	High flow type	0 to 0.3	
		1(P) port	3(R) port
Vacuum specification (MPa)	Standard	-100 kPa to 0.6	-100 kPa to 0
( 4)	High flow type	-100 kPa to 0.2	-100 kPa to 0
Ambient and fluid temperature (°C)		-10 to 50 (No freezing)	
Response speed (ms) Note 1)		10 ms or less	
Max. operating frequency (Hz)		20	
Lubrication		Not required	
Mounting orientation		Unrestricted	
Impact/Vibration resistance (m/s²) Note 2)		150/30	
Enclosure		Dustproof	

Note 1) Based on dynamic performance test, JIS B8374-1981. (Standard type: Coil temperature 20°C, at rated voltage.

Note 2) Impact resistance: No malfunction occurred when it is tested with a drop tester in the axial direction and at the right angles to the main valve and armature in both energized and deenergized states every once for each condition. (Value in the initial state)

Vibration resistance: No malfunction occurred in one sweep test between 45 and 2000 Hz. Test was performed to axis and right angle directions of the main valve and armature when pilot signal is ON and OFF. (Value in the initial state)

The impact/vibration resistance is 50/10 [m/s²] for the manifold with a power-saving circuit (0.23 W).

### **Solenoid Specifications**

Coil rated voltage		12, 24 VDC	
Allowable		24 VDC	12 VDC
voltage	Standard	-7% to +10%	-4% to +10%
fluctuation Note)	Power-saving type	-5% to +10%	-6% to +10%
Power consumption (W)		Standard: 0.55	
		With power-saving circuit (Continuous duty type): 0.23	
Surge voltage suppressor		Diode	
Indicator light		LED	

Note) The voltage fluctuation should be within the above range because the internal circuit can cause voltage drop

### **Flow Characteristics**

Tuno	Effective area (mm²)	
Туре	1(P)→2(A)	2(A)→3(R)
Standard	0.07	0.11
High flow type	0.16	0.21

### Weight

Stations	Port size	Weight (g) Note)
4	Barb fitting	47 (56)
stations ø2	ø2 one-touch fitting	53 (62)
8	Barb fitting	75 (85)
stations	ø2 one-touch fitting	84 (94)

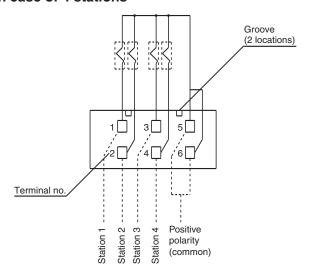
Note) ( ): values with bracket



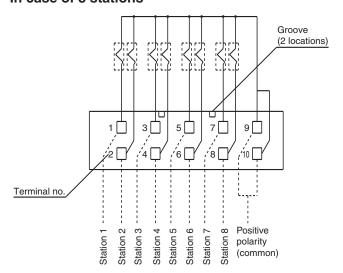
### Compact Direct Operated 3 Port Solenoid Valve Series VV061

### **Unit Manifold Internal Wiring**

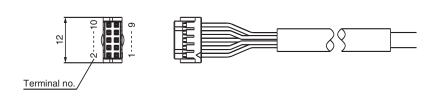
#### In case of 4 stations



#### In case of 8 stations



### **Connector Cable Specifications**



### Connector Cable Color List of Each Terminal No.

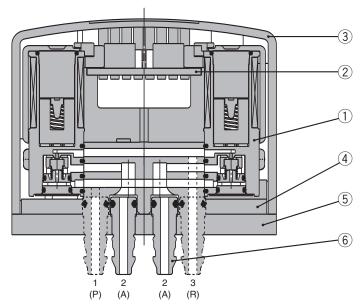
In case of 4 stations

Terminal no.	Lead wire color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue

In case of 8 stations

Terminal no.	Lead wire color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray
9	White
10	Black

### Construction



#### **Component Parts**

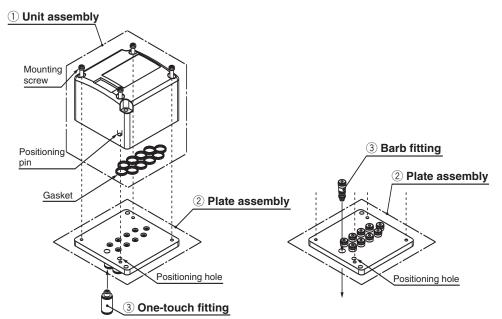
No.	Description	Material	Note	
1	Solenoid valve	_	Unit assembly	
2	PCB assembly	_	/ 4 mounting screws \	
3	Cover	Resin	M2 x 27 L	
4	Base	Resin	\ are included. /	
5	Plate	Aluminum	Plate assembly	
6	Barb fitting	Aluminum	Fiale assembly	

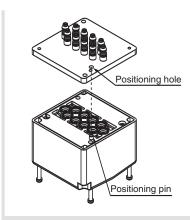
Note) As this drawing shows the internal construction, it is different from the actual product.



### Series VV061

### **Replacement Parts**





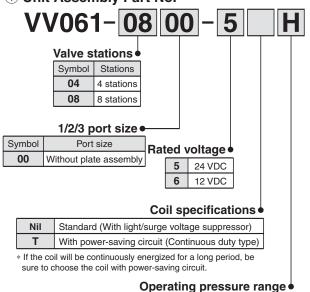
#### **How to Mount Unit Assembly**

Fit the positioning pin on the unit assembly to the positioning hole on the plate, and assemble them.

### **⚠** Caution

Tightening torque: 0.12 N⋅m

1) Unit Assembly Part No.



\* 4 mounting screws (M2 x 27 L) and one gasket are included.

### 2 Plate Assembly Part No.

Stations Fitting	Barb fitting	One-touch fitting
4 stations	PV060-10-8A	PV060-10-10A
8 stations	PV060-10-7A	PV060-10-9A
Note	Barb fitting is included.	One-touch fitting is mounted on the plate.

Standard (0 to 0.7 MPa)

High flow type (0 to 0.3 MPa)

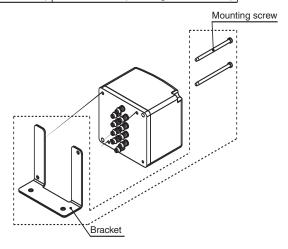
### 3 Fitting Part No. If only the fitting is needed, order with one of the part numbers below.

Description	Barb fitting	One-touch fitting
Part no.	PV060-73-1A	KJS02-M3

#### \* The minimum ordering quantity is 10 pcs.

### 4 Bracket Assembly Part No.

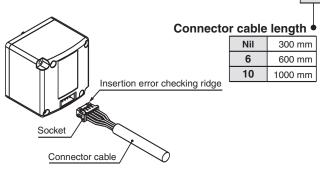
Description	Part no.
Bracket (for 4 stations)	PV060-80-2A (Mounting screw included)
Bracket (for 8 stations)	PV060-80-1A (Mounting screw included)



**(5) Connector Cable Part No.** 

For 4 stations PV060-40-4A-

For 8 stations **PV060-40-3A-**





### Compact Direct Operated 3 Port Solenoid Valve Series VV061

### **Dimensions**

