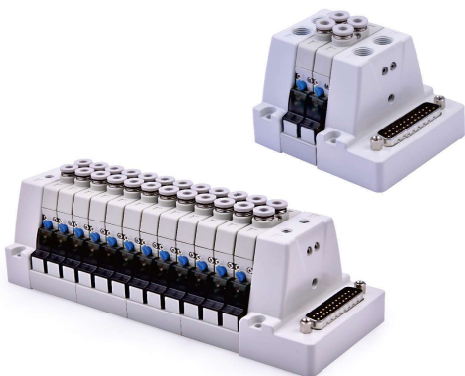


# Integrated solenoid valve (3/2 way)



## CPV10S Series



### Specification

Model		CPV10SB	CPV10SF
Integrated solenoid valve	Fluid	Air(to be filtered by 40μm filter element)	
	Acting	Direct acting	
	Number of stations	4~24 stations	
	Electrical entry	Terminal, 25pin D-Sub	
	Port size	P/R: M5    A: Φ3.2/ Φ4(Push in fittings)	
	The type of Inlet and exhaust	Centralized inlet and exhaust	
	Operating pressure	0~0.8MPa(0~114psi)	
	Proof pressure	1.2MPa(175psi)	
Coil	Temperature	-10~50℃	
	Protection	Dustproof	
	Standard voltage	DC24V	DC12V
	Scope of voltage	DC±10%	
	Temperature classification	F Class	
	Power consumption	DC: 0.7W	

### Product feature

- 1. Integrated installation of air inlet/exhaust and power socket(25pin D-Sub) to save space and reduce additional accessories.
- 2. Equipped with manual override for adjustment and troubleshooting.
- 3. Low starting voltage and long service life.

### Ordering code

CPV10S J04 B 12F

①    ②    ③    ④

①Model	②Port size	③Voltage	④Number of stations [Note]
CPV10S: CPV10S series integrated solenoid valve	J03: Φ3.2mm J04: Φ4.0mm	B: DC24V F: DC12V	4F: 4 stations 6F: 6 stations 8F: 8 stations ..... 24F: 24 stations

[Note] About stations as follow :

- 23F : The 12th mini solenoid valve on the left(12A)

.....

3F : The second mini solenoid valve on the left(2A)

1F : The first mini solenoid valve on the left(1A)
- 24F : The 12th mini solenoid valve on the right(12B)

.....

4F : The second mini solenoid valve on the right(2B)

2F : The first mini solenoid valve on the right(1B)



# AirTAC

# Micro-solenoid valve(3/2 way)

## CPV10 Series

### Specification

Model	CPV10	
Fluid	Air(to be filtered by 40µm filter element)	
Acting	Direct acting	
Nominal diameter	Φ0.55mm	
Effective area	P to A:0.25mm <sup>2</sup> (Cv=0.014) ; A to R:0.35mm <sup>2</sup> (Cv=0.02)	
Valve type	3 / 2 way	
Weight	micro-solenoid valve	15g
	Terminal wire	050: 4.6g 200: 21.4g
	Screw(2pcs)	0.46g
Operating pressure	0~0.8MPa(0~114psi)	
Proof pressure	1.2MPa(175psi)	
Temperature	-10~50℃	
Standard voltage	AC220V AC110V DC24V DC12V	
Scope of voltage	DC±10%; AC+15%~-10%	
Protection	Dustproof	
Temperature classification	F Class	
Power consumption	DC: 0.7W; AC: 1.5VA	
Electrical entry	Terminal	
Activating time	on<7ms; off<7ms	

### Symbol



### Product feature

1. With anti-surge component can avoid the damage of solenoid valve.
2. Multi-direction installation and polarless circuit design.
3. AC voltage models possess a built-in full wave rectifier circuit to reduce the noise effectively.
4. Various of standard voltages: AC220V, AC110V, DC24V, DC12V.
5. Low starting voltage and long service life.
6. Equipped with a push-turn locking manual override for adjustment and troubleshooting.

### Ordering code

#### Ordering code of valve

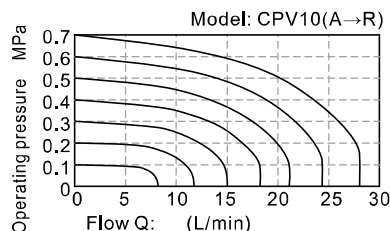
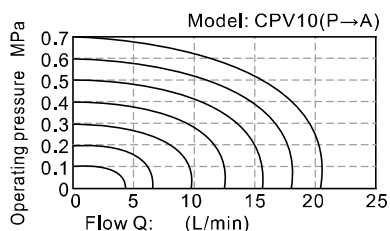
CPV 10 B P-050				
①	②	③	④	⑤
① Model	② Width of body	③ Voltage	④ Code of manual override	⑤ Wire length [Note1]
CPV: CPV series Micro-solenoid valve	10: 10mm	A: AC220V B: DC24V C: AC110V F: DC12V	P: With manual override	050: 0.5m 200: 2.0m

[Note1] Contain two M1.6 screws.

#### Ordering code of terminal wire

CPV T 050		
①	②	③
① Model	② Terminal wire	③ Wire length
CPV: CPV series Micro-solenoid valve	T: Terminal wire	050: 0.5m 200: 2.0m

### Flow chart

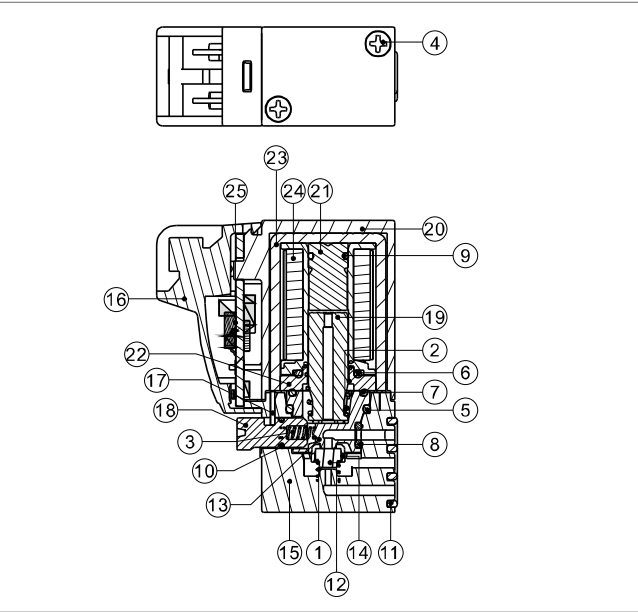


# Micro-solenoid valve(3/2 way)



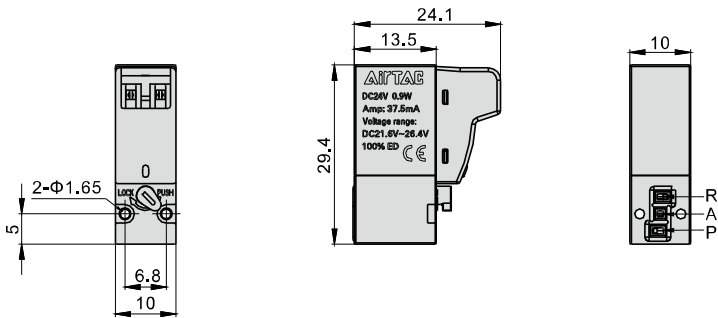
## CPV10 Series

### Inner structure



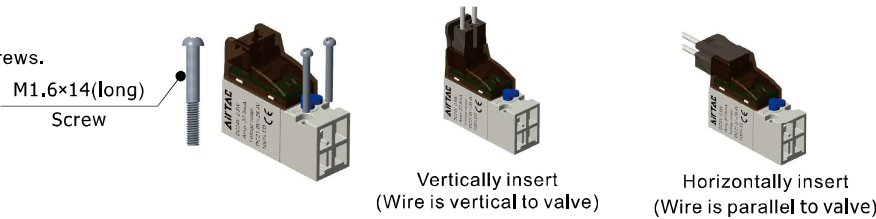
No.	Item	Material	No.	Item	Material
1	Spring	Stainless steel	14	Mandril	Resin
2	Spring	Stainless steel	15	Body	Resin
3	Spring	Stainless steel	16	Connector shell	Resin
4	Screw	Carbon steel	17	Manual pin plate	Stainless steel
5	O-ring	NBR	18	Manual pin	Brass
6	O-ring	NBR	19	Armature	Stainless steel
7	O-ring	NBR	20	Cover	Resin
8	Gasket	NBR	21	Electromagnet	Stainless steel
9	O-ring	NBR	22	Plate	Carbon steel
10	O-ring	NBR	23	U shape bracket	Carbon steel
11	Gasket	NBR	24	Coil	
12	Gasket	NBR	25	PCB assembly	
13	Crater	Resin			

### Dimensions



### Installation and Application

- 1. Micro-solenoid valve assembly:  
Fastened with torque of 0.1~0.15N.m by two M1.6X14L screws.
- 2. Wiring instruction:  
Multi-direction installation and polar less circuit design.  
Note: The terminal wire is non-polarity.
- 3. Prevent to connect AC coils in series with other devices.



# Micro-solenoid valve(3/2 way)

## CPV10 Series — Manifold



### Specification

Model	CPV10MJ□□2F	CPV10MJ□□3F	.....	CPV10MJ□□20F
Fluid	Air(to be filtered by 40μm filter element)			
Temperature	-10~50°C			
Port size	P/R: M5 A: Φ3.2 / Φ4(Push in fittings)			
Applicable valves	CPV10 series micro-solenoid valve			

### Product feature

1. Integrated installation saves space and reduces additional accessories.
2. Centralized air intake, exhaust, and wiring for quick air circuit checking.
3. Fixible combination and expandability for various applications. Blank plates are optional.

### Ordering code

#### Ordering code of manifold

##### CPV10M J03 - 20F

① Model	② Port size	③ Number of stations
CPV10M: CPV10 series Manifold	J03: Φ3.2 J04: Φ4	2F: 2 stations 4F: 4 stations 6F: 6 stations ..... 20F: 20 stations

#### Ordering code of blank plate

##### P-CPV10M-R2

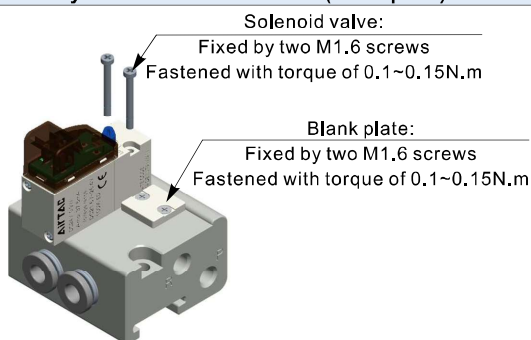
① Model	② Code
CPV10M: CPV10 series Manifold	R2: Blank plate for manifold

[Note] Blank plate kits contains blank plate, gasket and screws.



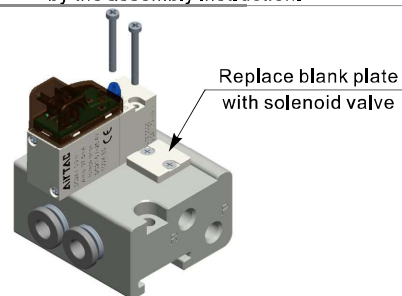
### Installation and Application

#### Assembly of micro-solenoid valve (blank plate) and manifold



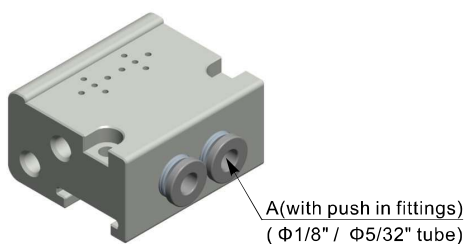
#### Expansion of micro-solenoid valve

Remove blank plate and install solenoid valve by the assembly instruction.



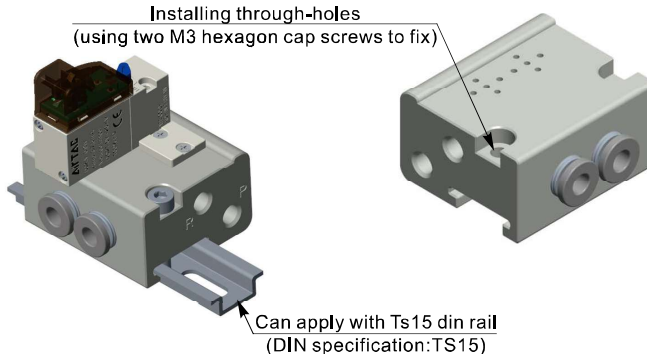
#### A port tubing

A port is at the side of manifold, port size is "Φ3.2 / Φ4"



#### Manifold mounting

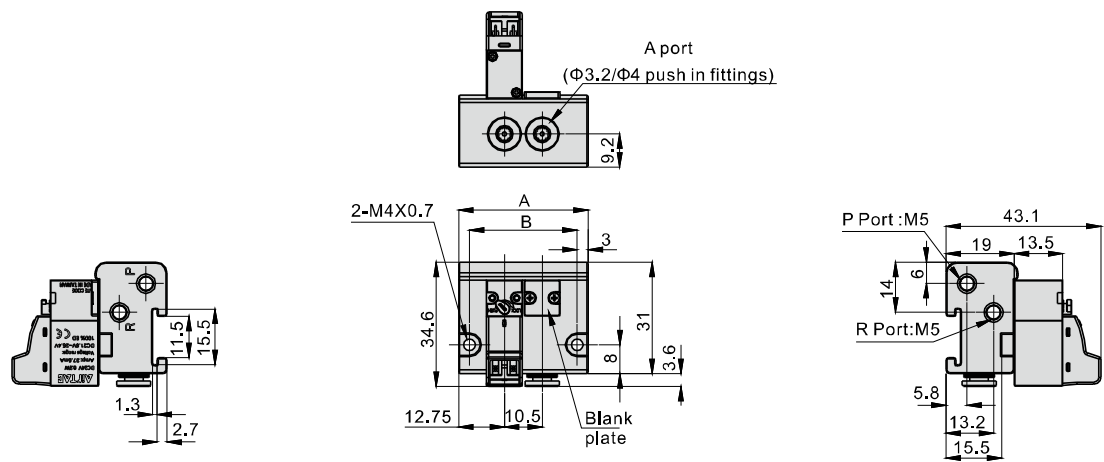
Installing through-holes  
(using two M3 hexagon cap screws to fix)



# Micro-solenoid valve(3/2 way)

## CPV10 Series — Manifold

### Dimensions



Item\Number of stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
A	36	46.5	57	67.5	78	88.5	99	109.5	120	130.5	141	151.5	162	172.5	183	193.5	204	214.5	225
B	30	40.5	51	61.5	72	82.5	93	103.5	114	124.5	135	145.5	156	166.5	177	187.5	198	208.5	219