

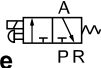
# Micro-solenoid valve(3/2 way)



## CPV15 Series



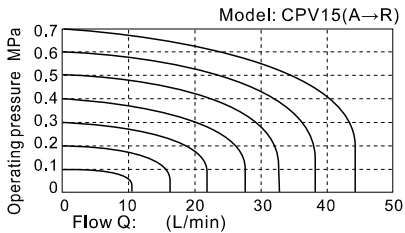
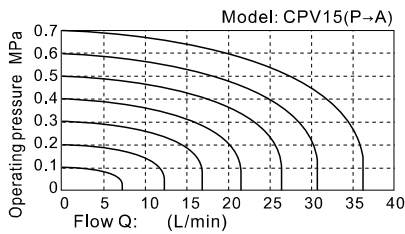
### Symbol



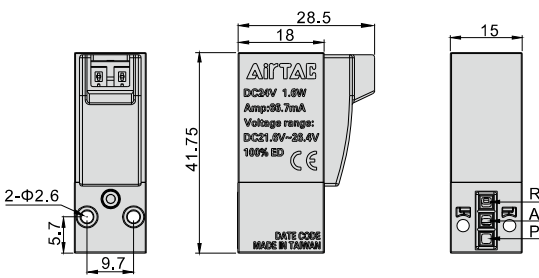
### Product feature

1. None polarity design of DC circuit, the direction(vertical or horizontal) of wiring can be adjusted freely according to the installation demand.
2. Low starting voltage and long service life.
3. There is no buzzing by the usage of AC power supply .
4. With surge device can avoid the damage of solenoid valve by surge voltage.

### Flow chart



### Dimensions



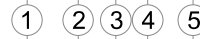
### Specification

Model	CPV15	
Fluid	Air(to be filtered by 40μm filter element)	
Acting	Direct acting	
Orifice size	Φ0.8mm	
Valid area or section	P→A: 0.44mm <sup>2</sup> (Cv=0.024) ; A→P: 0.55mm <sup>2</sup> (Cv=0.03)	
Valve type	3 port 2 position	
Weight	micro-solenoid valve	33.2g
	Wire	050: 4.6g 200: 21.4g
Screw(2pcs)		1.45g
Operating pressure	0~0.8MPa(0~114psi)	
Proof pressure	1.2MPa(175psi)	
Temperature	-20~70°C	
Standard voltage	AC220V AC110V AC24V DC24V DC12V	
Scope of voltage	DC±10% AC+15%~-10%	
Protection	Dustproof	
Temperature classification	F Class	
Power consumption	DC: 1.6W ; AC: 2.0VA	
Electrical entry	Terminal	
Activating time	on<10ms ; off<10ms	

### Ordering code

#### Ordering code of valve's body

CPV 15 B P-050



① Model	② Width of body	③ Voltage	④ Code of manual override	⑤ Wire length [Note1]
CPV: CPV series micro-solenoid valve	15: 15mm	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V	P: With manual override	050: 0.5m 200: 2.0m

[Note1] Attach the two M2.5 screws.

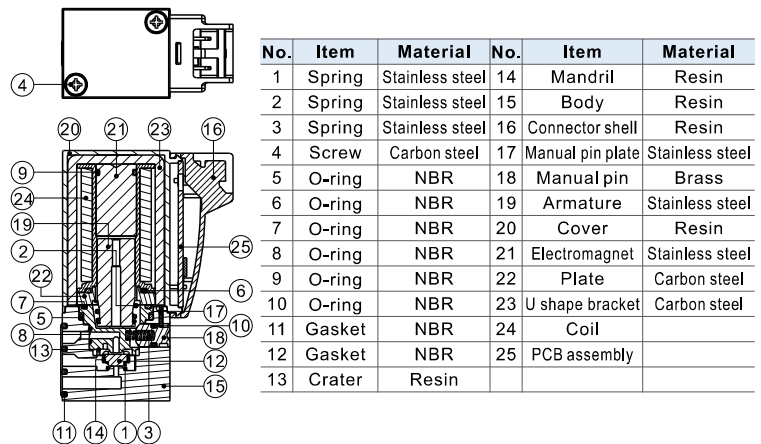
#### Ordering code of wire

CPV T 050



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

### Inner structure



### Installation and Application

1. Valve body installation:  
Use two M2.5 X 19 screws to mount the valve by 0.4~0.45N.m.
2. Wiring instruction:  
Vertical and horizontal insertion share the same terminal port for different practical applications.  
Note: There is no polarity for terminal wire.
3. AC coil is forbidden to connect with other devices.

M2.5×19(long) Screw



Vertically insert  
(Wire and body is vertical)



Horizontally insert  
(Wire and body is horizontal)



# Micro-solenoid valve(3/2 way)

CPV15 Series — Manifold



## Specification

Model	CPV15M2F	CPV15M3F	CPV15M4F	.....	CPV15M20F
Fluid	Air(to be filtered by 40µm filter element)				
Temperature	-20~70°C				
Port size	P/R ports		1/8"[Note1]		
	A port	PT thread	Φ4mm(Push in fittings)		
		G thread	Φ4mm(Push in fittings)		
		NPT thread	Φ5/32"(Push in fittings)		
Applicable valves	CPV15 series micro-solenoid valve				

[Note1] PT thread, G thread and NPT thread are available.

## Product feature

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

## Ordering code

### Ordering code for manifold

CPV15M 20F □

① ② ③

① Model	② Number of stations	③ Thread type
CPV15M: CPV15 series manifold	2F: 2 stations 3F: 3 stations 4F: 4 stations ..... 20F: 20 stations	Blank: PT G: G T: NPT

### Ordering code for blank plate

P-CPV15S-R2

① ②

① Model	② Code
CPV15S: CPV15S series integrated solenoid valve	R2: Blank plate for manifold

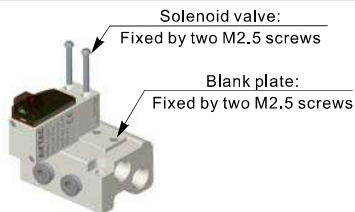
- [Note] 1. Ordering code contains manifold and blank plate.  
2. Maximum station up to 20 stations.  
3. Blank plate kits contain blank plate, gasket and screw.



## Installation and Application

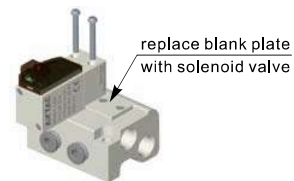
### Assembly of micro-solenoid valve (blank plate) and manifold

Mount micro-solenoid valve and manifold by two M2.5 screws as following .  
Mount blank plate and manifold by two M2.5 countersunk screws as following .



### 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 with push in fittings

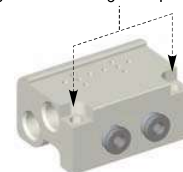


A(with push in fittings)  
(PT, G thread: Φ4mm  
NPT thread: Φ5/32" tube)

### Manifold mounting

Both sides of manifold attach two installing through-holes, using two M4 hexagon cap screws to fix.

Installing through-holes  
(using two M4 hexagon cap screws to fix)

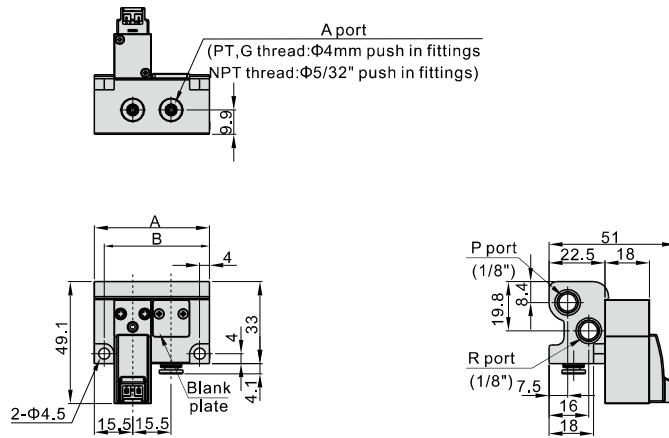


# Micro-solenoid valve(3/2 way)



## CPV15 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	46,5	62	77,5	93	108,5	124	139,5	155	170,5	186	201,5	217	232,5	248	263,5	279	294,5	310	325,5
B	38,5	54	69,5	85	100,5	116	131,5	147	162,5	178	193,5	209	224,5	240	255,5	271	286,5	302	317,5

# Integrated solenoid valve's cable

## F-DSUB25/F-DSUB37

### Cable ordering code

**F - DSUB 25 F 200**

① ② ③ ④



① Model	DSUB: D-SUB Cable		
② Pin Number	25: 25PIN	37: 37PIN	
③ Terminal type	F: Two Females	M: One Female +another male	S: One Female+another wire
④ Wire length	200: 2m	300: 3m 500: 5m	150: 1.5m 200: 2m 300:3m

### Specification

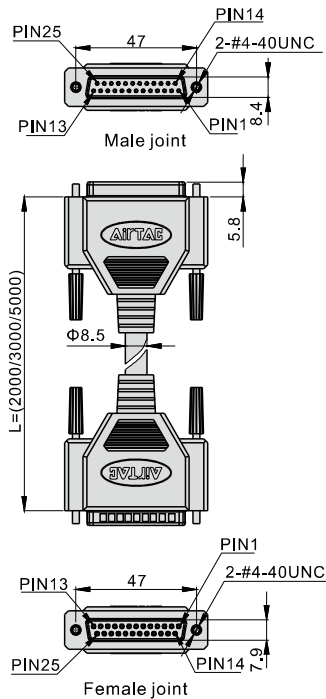
1. Flame resistant grade: UL94 VW-1.
2. Rated temperature: 80°C.
3. Rated voltage: 300V.

### How to select cable

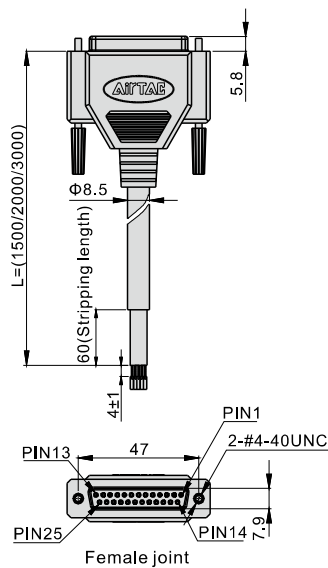
Cable type\Valve type	CPV10S	CPV15S	6D	6DW
F-DSUB25	•	•	•	
F-DSUB37				•

### Dimensions and wire's assignment

#### F-DSUB25F(M)



#### F-DSUB25S



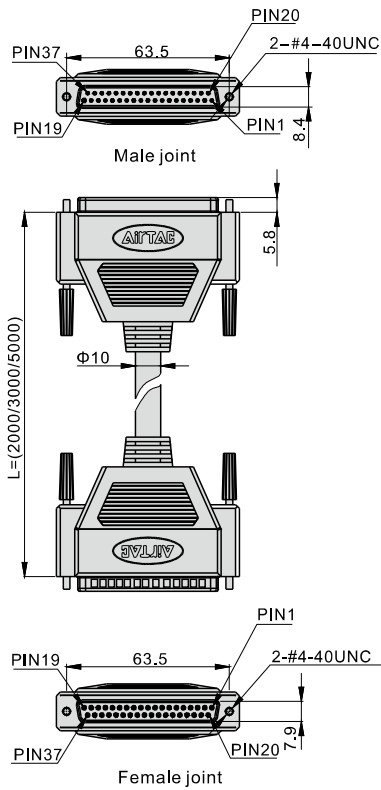
#### Wire's assignment

PIN	Color
1	Black
2	Tawny
3	Red
4	Orange
5	Yellow
6	Pink
7	Blue
8	Violet+White
9	Gray+Black
10	White+Black
11	White+Red
12	Yellow+Red
13	Orange+Red
14	Yellow+Black
15	Pink+Black
16	Blue+White
17	Violet
18	Gray
19	Orange+Black
20	Red+White
21	Tawny+White
22	Pink+Red
23	Gray+Red
24	Black+White
25	White

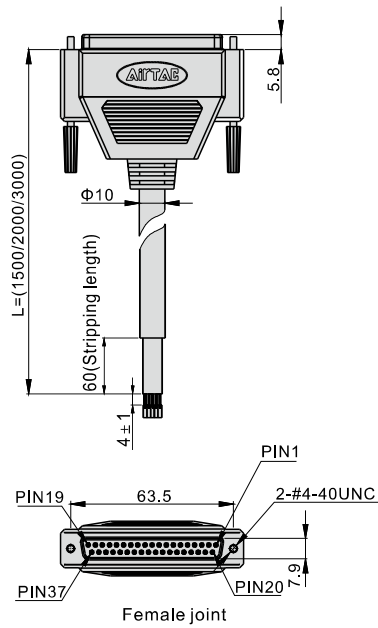
# Integrated solenoid valve's cable

## F-DSUB25/F-DSUB37

### F-DSUB37F(M)



### F-DSUB37S



Wire's assignment	
PIN	Color
1	Red+Black
2	Gray+Black
3	Brown+Black
4	Orange+Black
5	Yellow+Black
6	Green+Black
7	Blue+Black
8	White+Black
9	Violet+Red
10	Silt green+Black
11	Pink blue+Black
12	Pink+Black
13	Red
14	Gray
15	Brown
16	Orange
17	Yellow
18	Green
19	Black
20	Blue
21	White
22	Violet
23	Silt green
24	Pink blue
25	Pink
26	Red+White
27	Gray+White
28	Brown+White
29	Orange+White
30	Yellow+White
31	Green+White
32	Blue+White
33	Violet+White
34	Silt green+White
35	Pink blue+White
36	Pink+White
37	Red+Green