# Airtad

# CPV10S Series



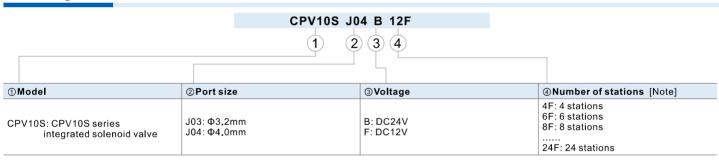
# **Specification**

Model		CPV10SB	CPV10SF					
	Fluid	Air(to be filtered by 40µm filter element)						
	Acting	Direct	acting					
	Number of stations	4~24 s	tations					
Integrated	Electrical entry	Terminal, 25pin D-Sub						
solenoid	Port size	P/R: M5 A: Φ3.2/ Φ4(Push in fittings)						
valve	The type of Inlet and exhaust	Centralized inlet and exhaust						
	Operating pressure	0~0.8MPa(0~114psi)						
	Proof pressure	1.2MPa(175psi)						
	Temperature	-20~70°C						
	Protection	Dust	proof					
	Standard voltage	DC24V	DC12V					
Coil	Scope of voltage	DC±10%						
	Temperature classification	F C	lass					
	Power consumption	DC:	0.7W					

## **Product feature**

- 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

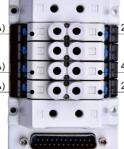


[Note] About stations as follow:

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)

.....

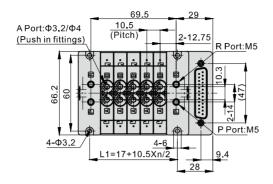
4F: The second mini solenoid valve on the right(2B)

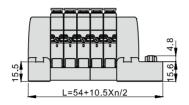
 $2F\,:\, The\, first\, mini\, solenoid\, valve\, on\, the\, right(1B)$ 

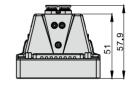


# CPV10S Series

## **Dimensions**





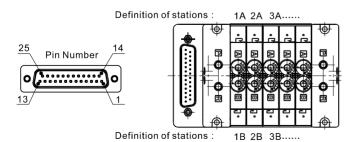


Item\Number of stations	4F	6F	8F	10F	12F	14F	16F	18F	20F	22F	24F
L	75	85.5	96	106.5	117	127.5	138	148.5	159	169.5	180
L1	38	48.5	59	69.5	80	90.5	101	111.5	122	132.5	143

# **Installation and Application**

Assembly of connecting block and micro-solenoid valve	Mounting of integrated solenoid valve
Mount micro-solenoid valve and connecting block with torque of 0.1~0.15N.m by two M1.6 screws as following.	Mount integrated solenoid valve by four M3 screws on platform as following.
Fixed by two M1.6 screws  Connecting block  Solenoid valve  Fixed by two M1.6 screws	Fixed by four  M3 screws on platform  Integrated solenoid valve

## Pin Assignment



Note: Gauge number of cable connecting to D-Sub pin No.13(COM) must be≤22AWG

Pin	Pol	arity	Control	Pin	Pol	arity	Control	
NO.	-COM	+COM	target	NO.	-COM	+COM	target	
1	(+)	(-)	1A	14	(+)	(-)	1B	
2	(+)	(-)	2A	15	(+)	(-)	2B	
3	(+)	(-)	3A	16	(+)	(-)	3B	
4	(+)	(-)	4A	17	(+)	(-)	4B	
5	(+)	(-)	5A	18	(+)	(-)	5B	
6	(+)	(-)	6A	19	(+)	(-)	6B	
7	(+)	(-)	7A	20	(+)	(-)	7B	
8	(+)	(-)	8A	21	(+)	(-)	8B	
9	(+)	(-)	9A	22	(+)	(-)	9B	
10	(+)	(-)	10A	23	(+)	(-)	10B	
11	(+)	(-)	11A	24	(+)	(-)	11B	
12	(+)	(-)	12A	25	(+)	(-)	12B	
13	(-)	(+)	COM					



#### CPV10 Series



CPV10
Air(to be filtered by 40µm filter element)

Direct acting

Φ0.55mm

P to A:0.25mm<sup>2</sup>(Cv=0.014); A to R:0.35mm<sup>2</sup>(Cv=0.02)

3 /2 way

15g

0.46g

0~0.8MPa(0~114psi)

1,2MPa(175psi)

-20~70°C

AC220V AC110V DC24V DC12V DC±10%; AC+15%~-10%

Dustproof

F Class DC: 0.7W: AC: 1.5VA

Terminal

on<7ms; off<7ms

200: 21.4g

050: 4.6g



## Symbol

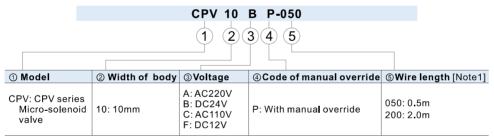


# **Product feature**

- ) was also a 4 f a a 4 s. wa
- 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



**Specification** 

Nominal diameter

Operating pressure

Proof pressure

Standard voltage

Scope of voltage Protection

Power consumption
Electrical entry

Activating time

Temperature classification

Temperature

micro-solenoid valve

Terminal wire

Screw(2pcs)

Effective area

Valve type

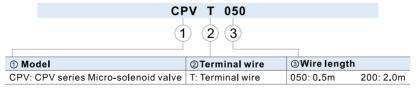
Weight

Model

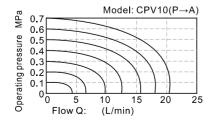
Acting

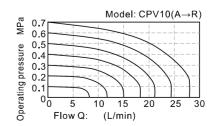
[Note1] Contain two M1.6 screws.

### Ordering code of terminal wire



#### Flow chart

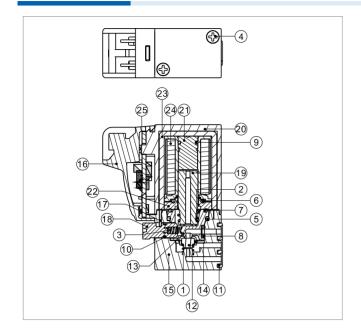






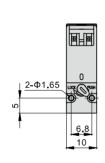
# **CPV10 Series**

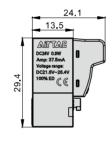
## Inner structure

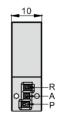


No.	Item	Material	No.	Item	Material				
1	Spring	Stainless steel	14	Mandri <b>l</b>	Resin				
2	Spring	Stainless steel	15	Body	Resin				
3	Spring	Stainless steel	16	Connector shell	Resin				
4	Screw	Carbon steel	17	Manual pin plate	Stainless steel				
5	O-ring	NBR	18	Manual pin	Brass				
6	O-ring	NBR	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.







Horizontally insert (Wire is parallel to valve)

# **AITTAL**

# CPV10 Series —— Manifold



## **Specification**

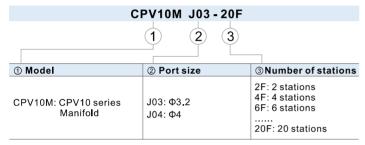
Model	CPV10MJ=2F	J==2F CPV10MJ==3F		CPV10MJ□□20F					
Fluid	Ai	r(to be	filtered by 4	10µm filter elem	ent)				
Temperature	-20~70°C								
Port size	P/R: M5 A: Φ3.2 / Φ4(Push in fittings)								
Applicable valves	CPV10 series micro-solenoid valve								

## **Product feature**

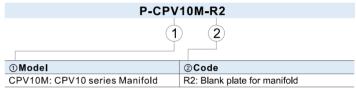
- 1. Integrated installation saves space and reduces additional accessories.
- 2. Centralized air intake, exhaust, and wiring for quick air circuit checking.
- 3. Fixible combination and expandability for various applications. Blank plates are optional.

# Ordering code

## Ordering code of manifold



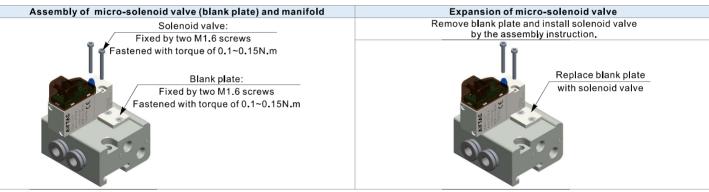
## Ordering code of blank plate

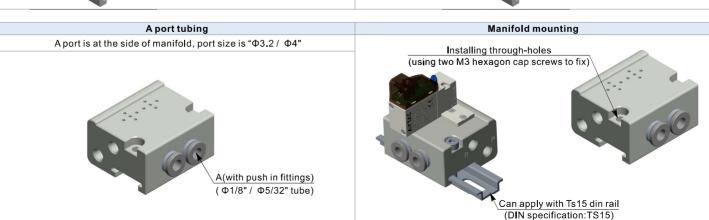


[Note] Blank plate kits contains blank plate, gasket and screws.



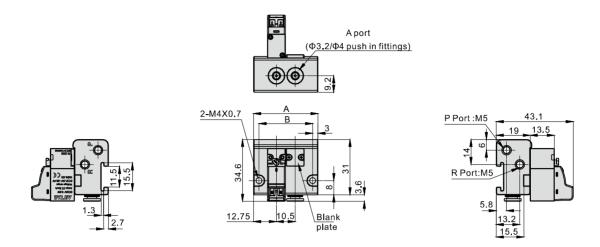
## Installation and Application







# **Dimensions**



Item\Number of stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F	17F	18F	19F	20F
Α	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
В	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