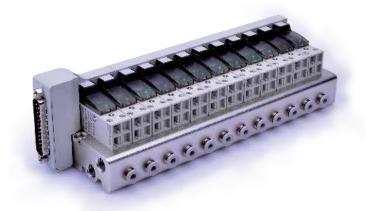


# **CPV15S Series(NPT)**



### **Ordering code**

# CPV15S B 20F T

①Model	
CPV15S: CPV15S series integrated solenoid valve	

②Voltage B: DC24V F: DC12V **3Number of stations** 

2F: 2 stations 3F: 3 stations 4F: 4 stations

20F: 20 stations

**4 Thread type** T: NPT

### **Specification**

Model		CPV15SB	CPV15SF			
Fluid		Air(to be filtered by 40 $\mu$ m filter element)				
Acting		Dire	ect acting			
	Number of stations	2~2	O stations			
Electrical entry		Terminal	, 25pin D-Sub			
Integrated solenoid valve Port size		P/R: NPT1/8 A:	Φ5/32"(Push in fittings)			
solellolu valve	The type of Inlet and exhaust	Centralized inlet and exhaust				
	Operating pressure	0~114psi(0~0.8MPa)				
	Proof pressure	175psi(1.2MPa)				
	Temperature	-20~70℃				
	Protection	Dι	stproof			
	Standard voltage	DC24V	DC12V			
Coil	Scope of voltage	DC±10%				
	Temperature classification	F	Class			
	Power consumption	DC: 1.6W				

### **Product feature**

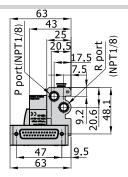
- Integrated installation centralizes air intake, exhaust and power(25pin D-Sub)to save space and reduce additional accessories.
- 2. Flexible combination and expandability for various applications. Blank plates are optional.
- 3. Equipped with manual override for quick air circuit checking.
- 4. Low starting voltage and long service life.

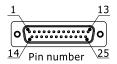


# **CPV15S Series(NPT)**

### **Dimensions**

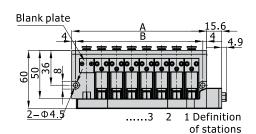
### **NPT** thread

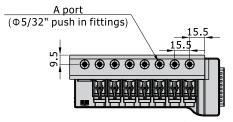




Terminal	l Polarity		Control	Terminal	Pola	arity	Control
no.	-COM	+COM	object	no.	-сом	+COM	object
1	(+)	(-)	13 station	14	(+)	(-)	1 station
2	(+)	(-)	14 station	15	(+)	(-)	2 station
3	(+)	(-)	15 station	16	(+)	(-)	3 station
4	(+)	(-)	16 station	17	(+)	(-)	4 station
5	(+)	(-)	17 station	18	(+)	(-)	5 station
6	(+)	(-)	18 station	19	(+)	(-)	6 station
7	(+)	(-)	19 station	20	(+)	(-)	7 station
8	(+)	(-)	20 station	21	(+)	(-)	8 station
9		Voic	d	22	(+)	(-)	9 station
10	Void		23	(+)	(-)	10 station	
11	Void		24	(+)	(-)	11 station	
12	Void		25	(+)	(-)	12 station	
13	(-)	(+)	COM				

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





[Unit: mm]

Dim.\Number of stations	2F	4F	6F	8F	10F
Α	46.5	77.5	108.5	139.5	170.5
В	38.5	69.5	100.5	131.5	162.5

Dim.\Number of stations	12F	14F	16F	18F	20F
Α	201.5	232.5	263.5	294.5	325.5
В	193.5	224.5	255.5	286.5	317.5

### **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.

Solenoid valve: Fixed by two M2.5 screws Blank plate:

Fixed by two M2.5 screws

### **Expansion of micro-solenoid valve**

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



Replace blank plate with solenoid valve

### A port tubing

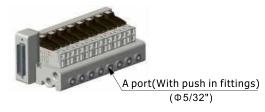
A port is at the side of manifold, port size is "Φ5/32""

**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)







# CPV15S Series (NPT) — Manifold, solenoid valve and blank plate



### **Ordering code**

### Ordering code of manifold



### CPV15S 20F T





### Model

CPV15S: CPV15S series integrated solenoid valve

### 2 Number of stations

**3Thread type** 

T: NPT

2F: 2 stations 4F: 4 stations

6F: 6 stations

....

20F: 20 stations

### Ordering code of valve



### CPV15 B





1 Model

CPV: CPV series micro-solenoid valve

②Voltage

F: DC12V

B: DC24V

**3 Code of manual override** 

P: With manual override

### Ordering code of blank plate



### P-CPV15S-R2





### ①Model

CPV15S: CPV15S series integrated solenoid valve

### 2Code

R2: Blank plate for manifold

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

[Note] 1. Ordering code contains solenoid valve, manifold, and blank plate.

2. Maximum station up to 20 stations.



# CPV15S Series (NPT)—— Manifold, solenoid valve and blank plate

### **Specification**

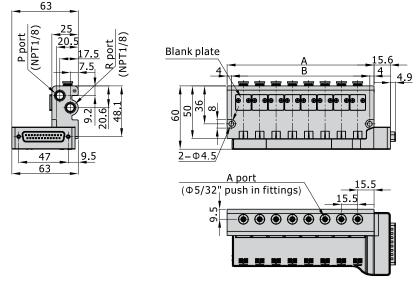
Model		CPV15S				
Fluid		Air(to be filtered by 40 $\mu$ m filter element)				
Number	of stations	2 stations ~20 stations, only available in even stations				
Electrica	l entry	Terr	minal, 25pin D-Sub			
Port size		P/R: NPT1/8	A: Φ5/32"(Push in fittings)			
The type of Inlet and exhaust		Centralized inlet and exhaust				
Operating pressure		0~114psi(0~0.8MPa)				
Proof pr	essure	175psi(1.2MPa)				
Tempera	ture	-20~70℃				
	Integrated valve of 2 stations	158.5g(not include CPV15 valve)				
Weight	Weight Increase when add 2 satations		+97.65g			
	Blank plate kits	0.65g				

### **Product feature**

- 1. Integrated installation centralizes air inlet, exhaust and power (25pin D-Sub)to save space and reduce additional accessories.
- 2. Flexible combination and expandability for various applications. Blank plates are optional.

### **Dimensions**

### **NPT thread**



[Unit: mm]

Dim.\Number of stations	2F	4F	6F	8F	10F	12F	14F	16F	18F	20F
Α	46.5	77.5	108.5	139.5	170.5	201.5	232.5	263.5	294.5	325.5
В	38.5	69.5	100.5	131.5	162.5	193.5	224.5	255.5	286.5	317.5

### **Installation and Application**

Please refer to the "Installation and Application " instruction of Integrated solenoid valve(NPT thread) .





## **CPV15 Series**

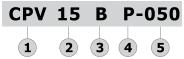






### Ordering code of valve



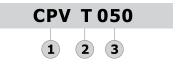


① Model		② Width of body	<b>③Voltage</b>
CPV: CPV series Micro-solenoid valve	!	15: 15mm	A: AC220V
<b>4</b> Code of manual pin	<b>5W</b>	ire length [Note1]	B: DC24V C: AC110V
P: With manual override		: 0.5m : 2.0m	E: AC24V F: DC12V

[Note1] Contain the two M2.5 screws.

### Ordering code of terminal wire





① Model	<b>3Wire length</b>				
CPV: CPV series Micro-solenoid valve	050: 0.5m	200: 2.0m			

# ②Terminal wire T: Terminal wire

### **Specification**

-								
Model		CPV15						
Fluid		Air(to be filtered by 40 μ m filter element)						
Acting		Direct acting						
Nominal	diameter	Φ0.8mm						
Effective	e area	P to A:0.44mm <sup>2</sup> (Cv=0.024); A to R:0.55mm <sup>2</sup> (Cv=0.03)						
Valve ty	ре	3 /2 way						
	micro-solenoid valve	33.2g						
Weight	Terminal line	050: 4.6g 200: 21.4g						
	Screw(2pcs)	1.45g						
Operatir	ng pressure	0~114psi(0~0.8MPa)						
Proof pr	essure	175psi(1.2MPa)						
Tempera	ature	-20~70 <b>℃</b>						
Standar	d voltage	AC220V AC110V AC24V DC24V DC12V						
Scope of	f voltage	Dc±10%; AC+15%~-10%						
Protection	on	Dustproof						
Tempera	ture classification	F Class						
Power co	onsumption	DC: 1.6W; AC: 2.0VA						
Electrica	al entry	Terminal						
Activatir	ng time	on<10ms; off<10ms						

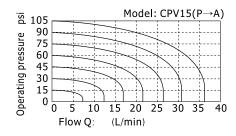


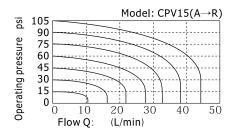
### **CPV15 Series**

### **Product feature**

- 1. Multi-direction installation and polarless circuit design.
- 2. Low starting voltage and long service life.
- 3. AC voltage models possess a built-in full wave rectifier circuit to reduce the noise effectively.
- 4. With anti-surge component can avoid the damage of solenoid valve.

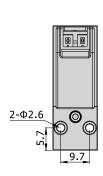
### Flow chart

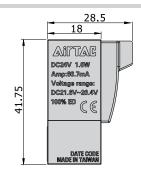


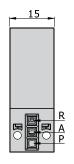


### **Dimensions**

[Unit: mm]







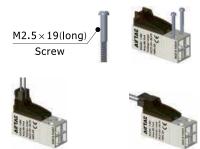
### **Installation and Application**

- 1. Micro-solenoid valve assembly
  Fastened with torque of 0.4~o.45N.m by two M2.5X19L screws.
- 2. Wiring instruction

Multi-direction installation and polarless circuit design.

Note: The terminal wore is non-polarity.

3. Prevent to connect AC coils in series with other devices.



Vertically insert (Wire is vertical to valve)

Horizontally insert
(Wire is parallel to valve)

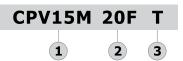


# **CPV15 Series** — Manifold (NPT)



### **Ordering code**

### Ordering code of manifold



### 1 Model

CPV15M: CPV15 series manifold

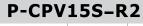
### 2 Number of stations

2F: 2 station 3F: 3 station 4F: 4 station ..... 20F: 20 station

# **3Thread type** T: NPT

### Ordering code of blank plate







1)Model
CPV15S: CPV15S series
integrated solenoid valve

2Code

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.

### **Specification**

Model	CPV15M2F	CPV15M3	F	CPV15M4F		CPV15M20F
Fluid	Ai	r(to be filter	ed	by 40 µ m filter	eleme	ent)
Temperature	-20~70℃					
Port size	P/I	R: NPT1/8	A:	Φ5/32"(Push i	n fittir	ıgs)
Applicable valves	CPV15 series micro-solenoid valve					

### **Product feature**

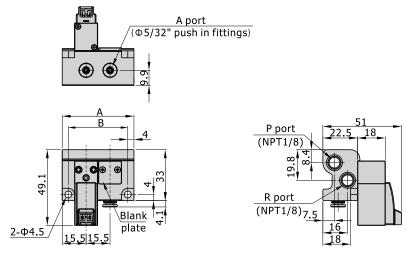
- 1. Integrated installation saves space and reduces additional accessories.
- 2. Centralized air intake, exhaust, and wiring for guick air circuit checking.
- 3. Flexible combination and expandability for various applications. Blank plates are optional.



# **CPV15 Series** — Manifold (NPT)

### **Dimensions**

### **NPT thread**



[Unit: mm]

317.5

Item\Number of stations	2F	3F	4F	5F	6F	7F	8F	9F	10F	
А	46.5	62	77.5	93	108.5	124	139.5	155	170.5	
В	38.5	54	69.5	85	100.5	116	131.5	147	162.5	
Item\Number of stations	11F	12F	13F	14F	15F	16F	17F	18F	19F	2
Α	186	201.5	217	232.5	248	263.5	279	294.5	310	32

224.5

240

255.5

271

### **Installation and Application**

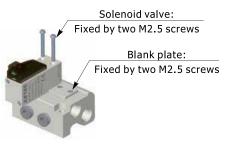
### Assembly of micro-solenoid valve (blank plate) and manifold

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

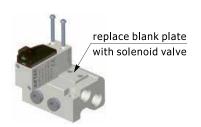
Remove blank plate and install solenoid valve by the assembly instruction.

286.5



178

193.5



# A port tubing A port is at the side of manifold, port size is "Φ5/32"" 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) A(with push in fittings) ( Φ5/32" tube)



# Integrated solenoid valve's cable

# F-DSUB25/F-DSUB37



### **Specification**

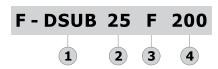
- 1. Flame resistand grade: UL94 VW-1.
- 2. Rated temperature: 80℃.
- 3. Rated voltage: 300V.

### How to select cable

F-DSUB25 [Unit: mm]

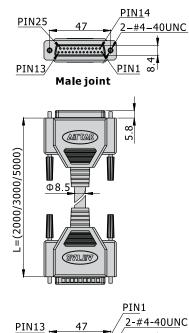
Cable type \Valve type	CPV10S	CPV15S
F-DSUB25	•	•
F-DSUB37		

### Cable ordering code



1 Model	DSUB: D–SUB Cable				
②Pin Number	25: 25PIN	37: 37PIN			
③Terminal type	F: Two Females	M: One Female+another male			
<b>4Wire length</b>	200: 2m	300: 3m 500: 5m			

### Dimensions and wire's assignment



Female joint

PIN14 K

	Orange i 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	Black
14	Red
15	Gray
16	Brown
17	Orange
18	Yellow
19	Green
20	Blue
21	White
22	Violet
23	Silt green
24	Pink blue
25	Pink

Wire's assignment

Color Red+Black

Gray+Black

Brown+Black Orange+Black

PIN

1

2

3

F-DSUB37 [Unit: mm]
PIN20 2-#4-40UNC
PIN19 PIN1 &
PIN1
PIN19 63.5 2-#4-40UNC
PIN37 PIN20 N

Wire's assignment			
PIN	Color		
1	Red+Black		
3	Gray+Black		
	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		
20	FIIIKTWIIICE		

Red+Green

37

PIN25