CPV15S Series





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.

Specification

Model			CPV15SB	CPV15SF		
	Fluid			Air(to be filtered by 40 µ m filter element		
	Acting			Direct	acting	
	Number	of statio	ns	2 stations ~2 only available ir		
	Electrical	entry		Terminal, 2	5pin D-Sub	
l-44		Р	/R ports	1/8"	[Note1]	
Integrated solenoid valve	Dort oizo		PT thtread	Φ4mm(Pusl	h in fittings)	
solellolu valve	Port size	A Port	G thtread	Φ4mm(Push in fittings)		
			NPT thtread	Φ5/32"(Push in fittings)		
	The type of Inlet and exhaust			Centralized inlet and exhaust		
	Operating	pressi	ure	0.15~0.8MPa(21~114psi)		
	Proof pre	ssure		1.2MPa(175psi)		
	Temperat	ure		-20~70℃		
	Protectio	n		Dust	oroof	
Coil	Standard	voltage)	DC24V	DC12V	
	Scope of	voltage		DC±10%		
	Temperat	ure cla	ssification	F CI	ass	
	Power co	nsumpt	ion	DC: 1	.6W	

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

Ordering code

Installation and Application

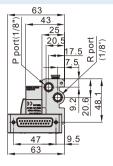
Assembly of micro-solenoid valve (blank plate) and manifold	Expansion of micro-solenoid valve		
Mount micro-solenoid valve and manifold by two M2.5 screws as following . Mount blank plate and manifold by two M2.5 countersunk screws as following .	Remove blank plate and install solenoid valve by the assembly instruction		
Solenoid valve: Fixed by two M2.5 screws Manifold: Fixed by two M2.5 screws	replace blank plate with solenoid valve		
A port tubing	Manifold mounting		
A port is at the side of manifold with push in fittings.	Both sides of manifold attach two installing through-holes, using two M4 hexagon cap screws to fix.		
A(with push in fittings)	Installing through-holes (using two M4 hexagon cap screws to fix)		

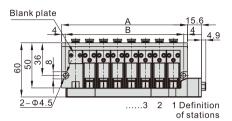


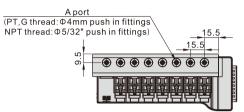


CPV15S Series

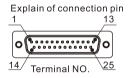
Dimensions







Item\Number of stations	2F	4F	6F	8F	10F	12F	14F	16F	18F	20F
А	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



Terminal			Control	Terminal	Polarity		Control
no.	-COM	+COM	object	no.	-COM	+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		Void		22	(+)	(-)	9 station
10		Void		23	(+)	(-)	10 station
11		Void		24	(+)	(-)	11 station
12		Void		25	(+)	(-)	12 station
13	(-)	(+)	COM				

[Note] The D-sub cable of the corresponding Pin no. 13 (COM) should be ess than or equal to 22AWG.

Integrated solenoid valve (3/2 way)



CPV15S Series——Manifold, solenoid valve and blank plate



Specification

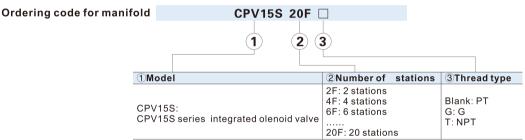
Model			CPV15S		
Fluid			Air(to be filtered by 40 μ m filter element)		
Number of stations			2 stations ~20 stations, only available in even stations		
Electrical entry			Terminal, 25pin D-Sub		
	P/F	ports	1/8" [Note1]		
Port		PT thtread	Φ4mm(Push in fittings)		
size	A Port	G thtread	Φ4mm(Push in fittings)		
		NPT thtread	Φ5/32"(Push in fittings)		
The typ	e of Inlet and ex	chaust	Centralized inlet and exhaust		
Operati	ng pressure		0.15~0.8MPa(21~114psi)		
Proof p	ressure		1.2MPa(175psi)		
Temperature			-20~70℃		
Integrated valve		ve of 2 stations	158.5g(not include CPV15 valve)		
Weight	Increase wher	add 2 satations	+97.65g		
Blank plate kit		s	0.65g		

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

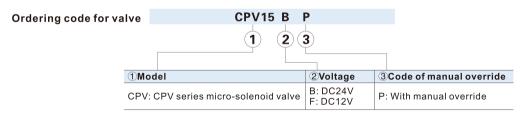
Product feature

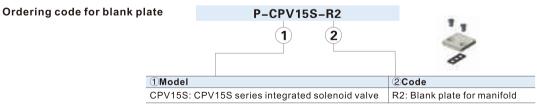
- Integrated installation centralizes air inlet, exhaust and power (25pin D-Sub)to save space and reduce additional accessories.
- Flexible combination and expandability for various applications. Blank plates are optional.

Ordering code



- [Note] 1. Ordering code contains solenoid valve, manifold, and blank plate.
 - 2. Maximum station up to 20 stations





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

Installation and Application

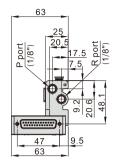
Please refer to the "Installation and Application" instruction of Integrated solenoid valve.

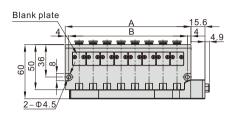


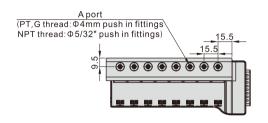


CPV15S Series——Manifold, solenoid valve and blank plate

Dimensions







Item\Number of stations	2F	4F	6F	8F	10F	12F	14F	16F	18F	20F
A	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

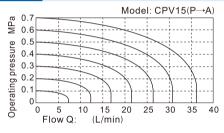
CPV15 Series

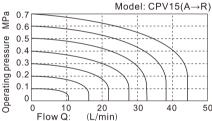


Product feature PR

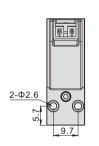
- None polarity design of DC circuit, the direction(vertical or horizontal) of wiring can be adjusted freely according to the installation demand.
- 2. Low starting voltage and long service life.
- 3. There is no buzzing by the usage of AC power supply .
- With surge device can avoid the damage of solenoid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

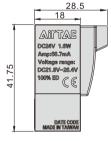
Flow chart

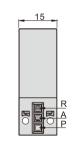




Dimensions







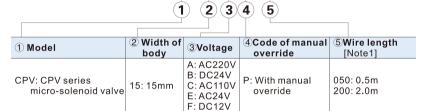
Specification

Model		CPV15			
Fluid		Air(to be filtered by 40 μ m filter element)			
Acting		Direct acting			
Orifice	size	Ф0.8mm			
Valid ar	ea or section	$P \rightarrow A: 0.44 \text{mm}^2(\text{Cv} = 0.024); A \rightarrow P: 0.55 \text{mm}^2(\text{Cv} = 0.03)$			
Valve ty	/pe	3 port 2 position			
	micro-solenoid valve	33.2g			
Weight	Wire	050: 4.6g 200: 21.4g			
_	Screw(2pcs)	1.45g			
Operati	ing pressure	0.15~0.8MPa(21~114psi)			
Proof p	ressure	1.2MPa(175psi)			
Temper	ature	-20~70℃			
Standa	rd 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			
Electric	cal entry	Terminal			
Activati	ing time	on<10ms; off<10ms			

Ordering code

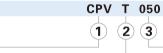
Ordering code of valve's body

CPV 15 B P-050



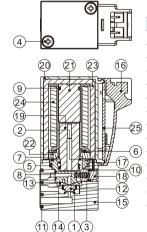
[Note1] Attach the two M2.5 screws.

Ordering code of wire



1 Model	2Wire	3Wire length	
CPV: CPV series	T: Wire	050: 0.5m	300: 3.0m
micro-solenoid valve	1. Wire	200: 2.0m	500: 5.0m
	•	· · · · · · · · · · · · · · · · · · ·	

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	Movable core	Stainless steel
7	O-ring	NBR	20	Cover	Resin
8	O-ring	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			

Installation and Application

1. Valve body installation:

Use two M2.5 X 19 screws to mount the valve by 0.4~0.45N.

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.





Vertically insert (Wire and body is vertical)



Horizontally insert (Wire and body is horizontal)



CPV15 Series —— Manifold





Specification

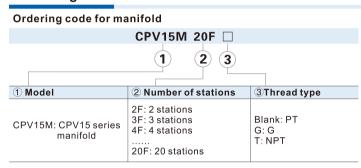
Model			CPV15M2F	CPV15M3F	CPV15M4F		CPV15M20F
Fluid			Air(to be filtered by 40 µ m filter element)				
Temperature			-20~70℃				
	P/I	R ports	1/8"[Note1]				
Port		PT thread		Φ4m	m(Push in fitt	tings)	
size	A port	G thread		Φ4mm(Push in fittings)			
	Port	NPT thread	Φ5/32"(Push in fittings)				
Applic	able va	alves	CPV15 series micro-solenoid valve				

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

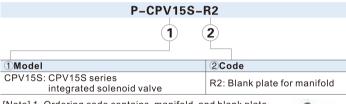
Product feature

- 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 blank plate



- [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

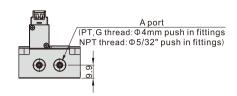
Assembly of micro-solenoid valve (blank plate) and manifold	Expansion of micro-solenoid valve
Mount micro-solenoid valve and manifold by two M2.5 screws as following . Mount blank plate and manifold by two M2.5 countersunk screws as following .	Remove blank plate and install solenoid valve by the assembly instruction
Solenoid valve: Fixed by two M2.5 screws Manifold: Fixed by two M2.5 screws	replace blank plate with solenoid valve

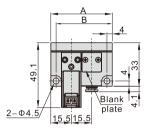
A port tubing	Manifold mounting		
A port is at the side of manifold with push in fittings	Both sides of manifold attach two installing through-holes, using two M4 hexagon cap screws to fix.		
A(with push in fittings) (PT, G thread: Φ4mm NPT thread: Φ5/32" tube)	Installing through-holes (using two M4 hexagon cap screws to fix)		

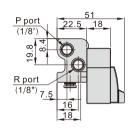




Dimensions







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