

Solenoid valve(3/2 way,5/2 way,5/3 way)

Compendium of Solenoid valve

P19	Product feature	Photo	P25	Product feature	Photo		
CPV10 Series Solenoid valve	Ocan be used monomer or in series Plug electrical connector Manifold is optional 3/2 Way		CPV15 Series Solenoid valve	 Can be used monomer or in series Plug electrical connector Manifold is optional 3/2 Way 	A SECRETARIAN AND A SECRETARIA		
P32	Product feature	Photo	P34	Product feature	Photo		
3V1 Series Solenoid valve	Coaxial blanking structure and direct acting(NC) Can be used in series Affiliated manual devices 3/2 Way		3V2 Series Solenoid valve	Coaxial blanking structure and direct acting NC, NO are optional Affiliated manual devices 3/2 Way Can be used under vacuum condition			
P36	Product feature	Photo	P38	Product feature	Photo		
3V2M Series Solenoid valve	Coaxial blanking structure and direct acting NC, NO are optional Affiliated manual devices 3/2 Way Be used with manifold Centralized exhaust and separated exhaust are optional		3V3 Series Solenoid valve	Coaxial blanking structure and direct acting NC, NO are optional Affiliated manual devices 3/2 Way Can be used under vacuum condition			
P40	Product feature	Photo	P46	Product feature	Photo		
3V100~300 Series Solenoid valve	 Sliding column structure Double control and single control are optional NO and NC are optional for single control Manifold is optional 3/2 Way 	ACTAIN THE PARTY OF THE PARTY O	6V0500~200 Series Solenoid valve	 Sliding column structure Horizontal and vertical insertion can freely switch Port threads and push-in fittings options Manifold is optional 5/2 Way, 5/3 Way 			
P52	Product feature	Photo	P60	Product feature	Photo		
7S0500~200 Series Solenoid valve	● Sliding column structure ● Transfer block design ● Port threads and push-in fittings options. ● 5/2 Way, 5/3 Way ● Centralized inlet and exhaust design		7V0500~200 Series Solenoid valve	 Sliding column structure Horizontal and vertical insertion can freely switch Port threads and push-in fittings options Manifold is optional 5/2 Way, 5/3 Way 			
P65	Product feature	Photo	P73	Product feature	Photo		
4V100~400 Series Solenoid valve	● Sliding column structure ● Double control and single control are optional ● Closed center, exhaust center and pressure center are available for 5/3 Way ● Manifold is optional ● 5/2 Way, 5/3 Way		4M100~300 Series Solenoid valve	● Coaxial blanking structure ● 5/2 Way ● Double control and single control are optional ● Closed center, exhaust center and pressure center are available for 5/3 Way			
P75	Product feature	Photo	P77	Product feature	Photo		
Manifold	Can integrate valves of the same series to form valve group Unified air intake and exhaust and unified wiring Flexible combination and strong expansion capability		ESV Series Solenoid valve (ISO Standard)	Sliding column structure Double control and single control are optional 5/2 Way, 5/3 Way Closed center, exhaust center and pressure center are available for 5/3 Way The installation size conforms to ISO5599/1 standard			

Installation and Application

- 1. Before installing, be sure the valve hasn't been damaged via transportation.
- 2. It's suggested to use the medium lubricated by 40 µ m filter element. Be aware of the flow direction and port size.
- 3. Please notice whether the installation condition accords with technical requirements (such as "voltage", "actuation frequency", "working pressure" and "scope of application temperature"), then the equipment can be installed and used.
- 4. Notice the flow direction of air during installation, P is the air intake, A (B) is the work port and R (S) is the exhaust outlet.
- 5. Take measure to avoid vibration and frozen.
- 6. Before using the fittings and tubes make sure they are clean. When connecting to fittings, be sure the PTFE Thread Seal Tape is used correctly.
- 7. To keep the dust away, please use the silencer for the exhaust ports. Never forget to install dirt-proof boot in air intake and outlet during dismounting.
- 8. After installing, please use the manual override to test valve first.





CPV10S Series





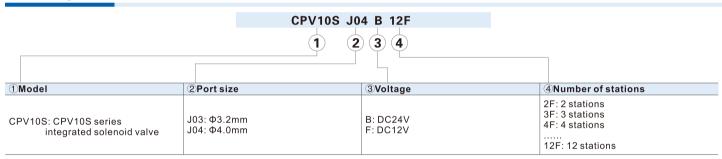
Specification

Model		CPV10SB	CPV10SF					
	Fluid	Air(to be filtered by 40 μ m filter element)						
	Acting	Direct acting						
	Number of stations	2~1	2 stations					
	Number of stations	(Controlling two so	lenoid valves per station)					
Integrated solenoid	Electrical entry	Terminal, 25pin D-Sub						
valve	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)						
	Temperature	-20~70℃						
	Protection	Dustproof						
	Standard voltage	DC24V	DC12V					
Coil	Scope of voltage	DC±10%						
	Temperature classification	F Class						
	Power consumption	DC: 0.9W						

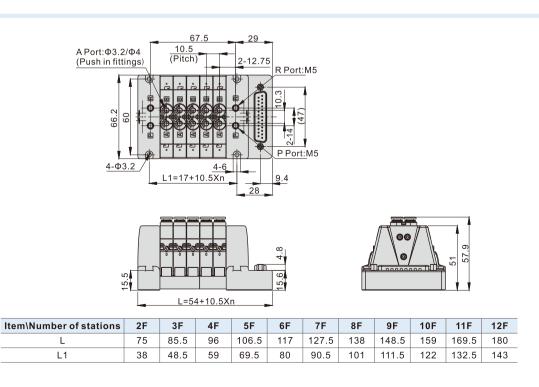
Product feature

- 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



Dimensions

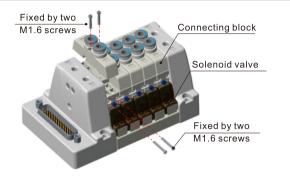




CPV10S Series

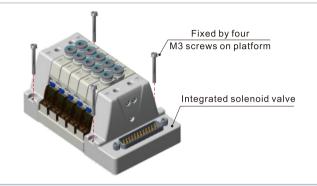
Installation and Application

Assembly of connecting block and micro-solenoid valve Mount micro-solenoid valve and connecting block with torque of 0.1~0.15N.m by two M1.6 screws as following.

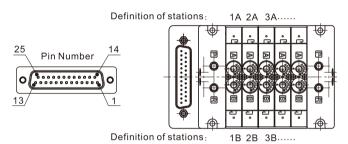


Mounting of integrated solenoid valve

Mount integrated solenoid valve by four M3 screws on platform as following.



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 40 µ m filter element)

Direct acting

Ф0.55mm

P to A:0.25mm²(Cv=0.014); A to R:0.35mm²(Cv=0.02)

3 /2 way

15q

0.46g

0~0.8MPa(0~114psi) 1.2MPa(175psi)

-20~70**℃**

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

Dustproof

F Class

DC: 0.9W; AC: 1.5VA

Terminal

on<7ms; off<7ms

200: 21.4g

050: 4.6g



Symbol

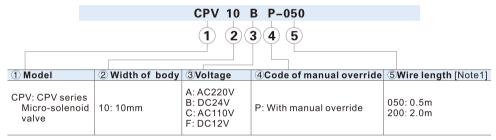


Product feature

- 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



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 line

Screw(2pcs)

Effective area

Valve type

Weight

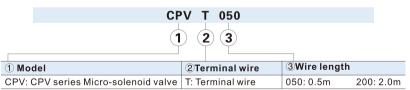
Model

Fluid

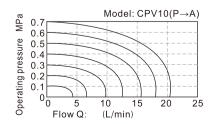
Acting

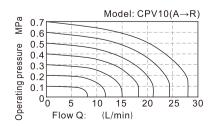
[Note1] Contain two M1.6 screws.

Ordering code of terminal wire



Flow chart



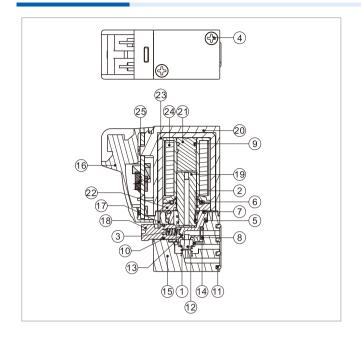






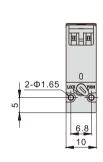
CPV10 Series

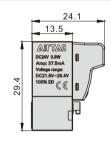
Inner structure

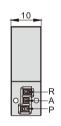


No.	Item	Material	No.	Item	Material
1	Spring	Stainless steel	14	mandril	Resin
2	Spring	Stainless steel	15	Body	Resin
3	Spring	Stainless steel	16	Connector shell	Resin
4	Screw	Carbon steel	17	Manual pin plate	Stainless steel
5	O-ring	NBR	18	Manual pin	Brass
6	O-ring	NBR	19	Movable core	Stainless steel
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			

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.





Vertically insert (Wire is vertical to valve)

Horizontally insert (Wire is parallel to valve)



CPV10 Series —— Manifold



Specification

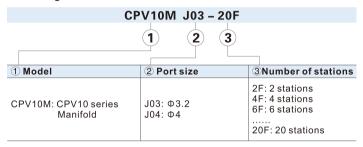
Model	CPV10MJ□□2F	CPV10	MJ□□3F		CPV10MJ□□20F						
Fluid	Air(to be filtered by 40 μ m filter element)										
Temperature	-20~70℃										
Port size	P/R: M5 A: Φ 3.2 / Φ 4(Push in fittings)										
Applicable valves	CPV10 series micro-solenoid valve										

Product feature

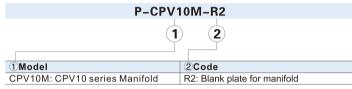
- 1. Integrated installation saves space and reduces additional accessories.
- 2. Centralized air intake, exhaust, and wiring for quick air circuit checking.
- 3. Fixible combination and expandability for various applications. Blank plates are optional.

Ordering code

Ordering code of manifold



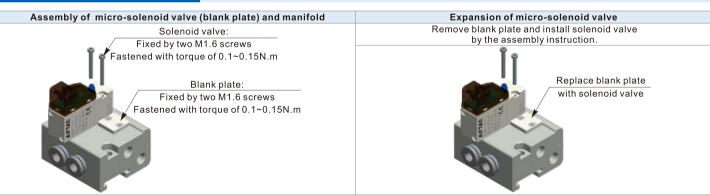
Ordering code of blank plate

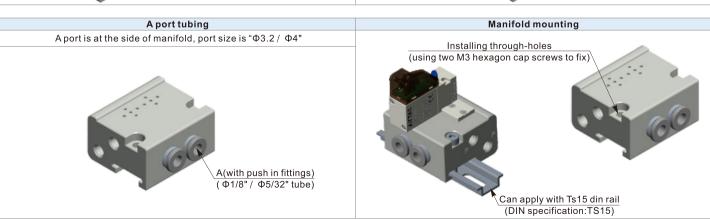


[Note] Blank plate kits contains blank plate, gasket and screws.



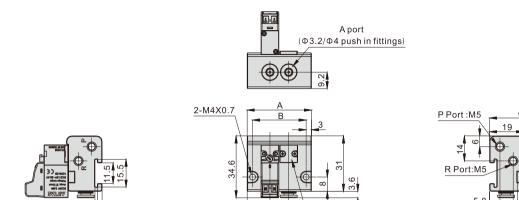
Installation and Application







Dimensions



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

Blank plate