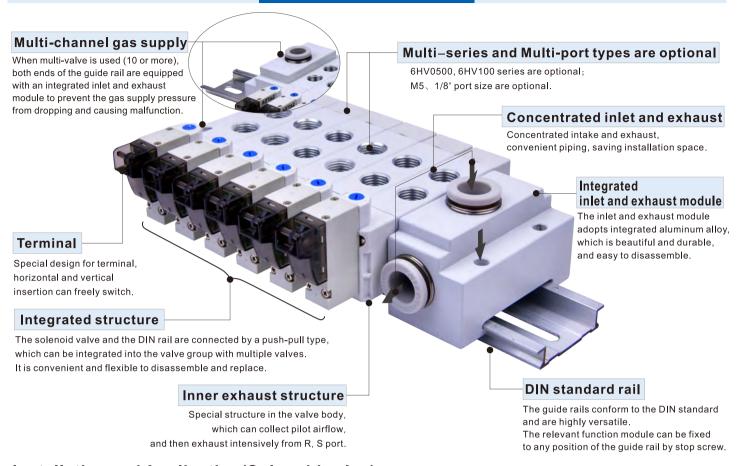


6HV Series Integrated solenoid valve (5/2, 5/3 way)

Compendium of 6HV Series



Installation and Application (Solenoid valve)

- 1. Don't throw or drop the solenoid valve when take it, to avoid breaking valve;
- 2. Because solenoid pilot valve is sophisticated component, can't crash pilot valve by outside force, otherwise solenoid valve break possibly;
- $3. \ Don't \ dismantle \ solenoid \ valve \ freely, if \ the \ screw (M1.6X14) \ becomes \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ becomes \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ it \ by \ torque \ 0.1 \sim 0.12 N.m; \ loose, \ please \ tighten \ loose, \ please \ loose, \ please \ tighten \ loose, \ please \ tighten \ loose, \ please \ loose, \ ple$
- 4. About manual operation:
 - 4.1. Ensure no danger, prior to activating manual override;
 - 4.2. For push button option:

Activate by push the button in the direction shown



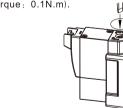
Activate by push the button in the direction shown.

With correct size screw driver: please turn to lock gently(Torque: 0.1N.m).









Normal position

Locked position

4.4. Wiring instruction: Vertical plug type and parallel plug type are the same as plug, please insert wire line as up drawing by practicality.







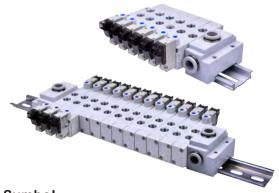
Pilot valve

Parallel plug wire

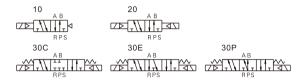




6HV Series



Symbol



Product feature

- Electrical entry is terminal, horizontal and vertical insertion can freely switch.
- Inner exhaust structure, which can collect pilot airflow, and then exhaust intensively from R, S port.
- 3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- The solenoid valve and the DIN rail are connected by a push-pull type, which can be integrated into the valve group with multiple valves.

It is convenient and flexible to disassemble and replace.

Specification

Model		6HV0510 6HV0520	6HV0530	6HV1106HV120	6HV130		
Port size [Note1]		In=Out=	M5	In=Out=M5(or=1/8")			
Orifice size(Cv)[Note4]		M5:3.4mm ² (0.2)	6HV0530CM5: 2.2mm ² (0.13)	06:8.9mm² (0.52)	6HV130C06: 8.0mm ² (0.47)		
Max. frequency [Note2]		5 cycle/sec	3 cycle/sec	5 cycle/sec	3cycle/sec		
Fluid		Air(to be filtered by 40µm filter element)					
Acting		Pilot					
Operating	6HV0530/6HV130	0.2~0.8MPa(29~114psi)					
pressure	Othres	0.15~0.8MPa(21~114psi)					
Proof pres	sure	1.2MPa(175psi)					
Temperature		-20~70℃					
Material of body		Aluminum alloy					
Lubrication [Note3]		Not required					
Exhaust ty	pe of pilot valve	Main valve and pilot valve is centralized exhaust					

[Note1] G thread is available.

[Note2] The maximum actuation frequency is in the no-load state.

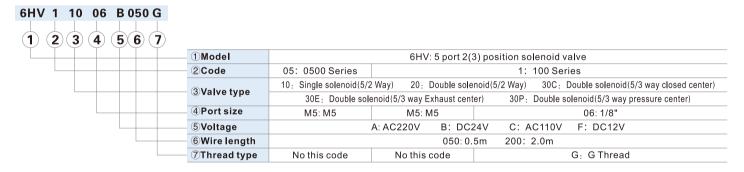
[Note3] Once lubricated air is used, continue with same medium to optimize valve life span. Lubricants like ISO VG32 or equivalent are recommended.

[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

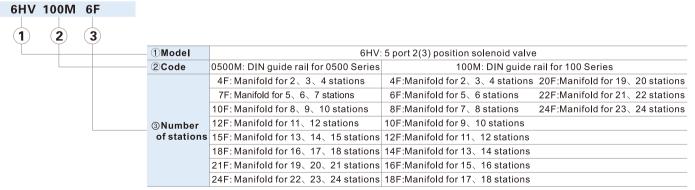
Coil specification

Item	Specification					
Standard voltage	AC220V AC110V		DC24V	DC12V		
Scrop of voltage	AC: +15	% ~-10%	DC:	±10%		
Power of consumption	1.1VA		0.9W			
Protection						
Temperature classification	F Class					
Electrical entry	Terminal					
Activating time		0.05 sec	and below			

Ordering code(Solenoid valve)



Ordering code(DIN guide rail)

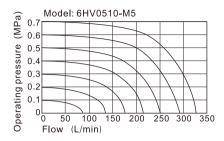


[Note] DIN guide rail contents inlet and outlet module or end cover. The detail configuration is: ten and less stations config one inlet and outlet module and one end cover, ten over stations config two inlet and outlet modules.

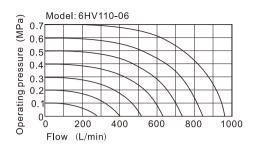


6HV Series

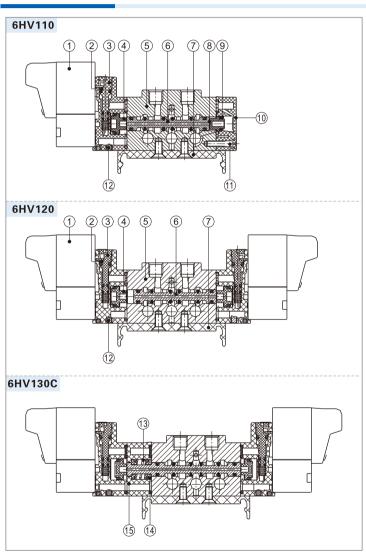
Flow chart



The data in flow rate chart are obtained from AirTAC lab.



Inner structure



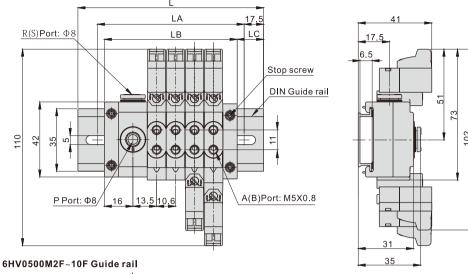
No.	Item	No.	Item	No.	Item
1	Pilot valve	6	Spool	11	Bolt
2	Manual override	7	Bracket	12	Steel ball
3	Pilot kit	8	Little piston	13	Spring
4	Big piston	9	Gasket	14	Return holder
5	Body	10	Bottom cover	15	Side cover

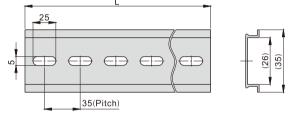


6HV Series

Dimensions

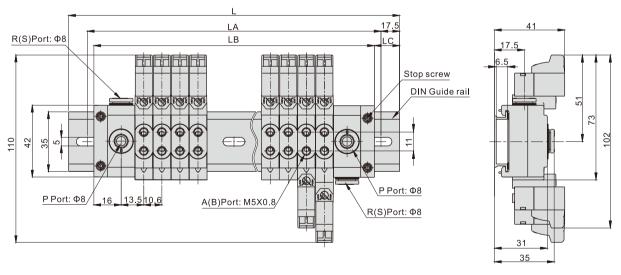
6HV0500+6HV0500M2F~10F



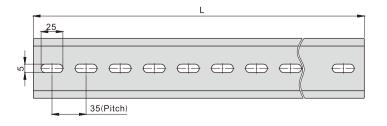


Item\Stations	2F	3F	4F	5F	6F
L	105	105	105	140	140
LA	70	70	70	105	105
LB	53	64	74.5	85	95.5
LC	26	20.5	15	27.5	22
Item\Stations	7F	8F	9F	10F	
Item\Stations	7F 140	8F 175	9F 175	10F 175	
L LA					
L	140	175 140	175	175 140	

6HV0500+6HV0500M11F~24F



6HV0500M11F~24F Guide rail



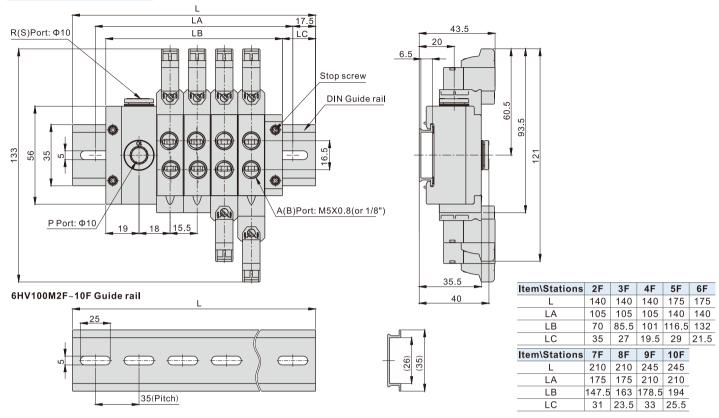


Item\Stations	11F	12F	13F	14F	15F	16F	17F
L	210	210	245	245	245	280	280
LA	175	175	210	210	210	245	245
LB	164.5	175	185.5	196.5	207	217.5	228
LC	23	17.5	30	24	19	31	26
Item\Stations	18F	19F	20F	21F	22F	23F	24F
Item\Stations	18F 280	19F 315	20F 315	21F 315	22F 350	23F 350	24F 350
L LA	-						
L LA	280	315 280	315 280	315	350 315	350 315	350

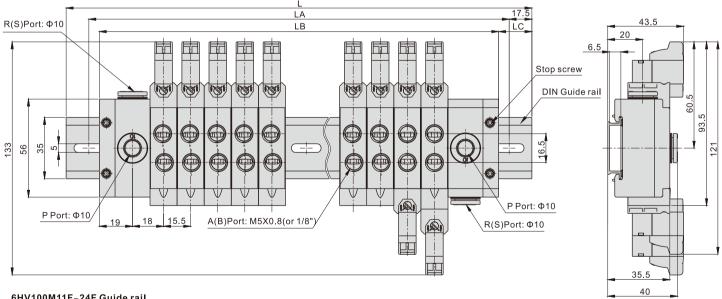




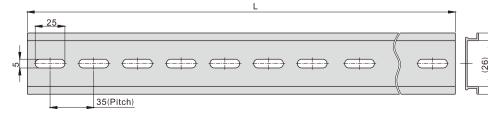
6HV100+6HV100M2F~10F



6HV100+6HV100M11F~24F



6HV100M11F~24F Guide rail



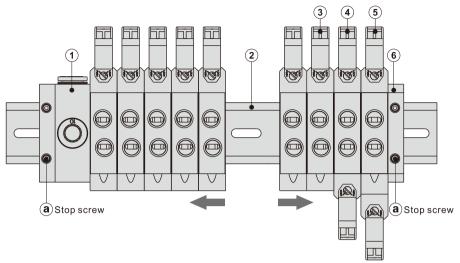
Item\Stations	11F	12F	13F	14F	15F	16F	17F
L	280	280	315	315	350	350	385
LA	245	245	280	280	315	315	350
LB	228.5	244	259.5	275	290.5	306	321.5
LC	28	18	28	20	30	22	32
Item\Stations	18F	19F	20F	21F	22F	23F	24F
L	385	420	420	455	455	490	490
LA	350	385	385	420	420	455	455
LB	337	352.5	368	383.5	399	414.5	430
LC	24	34	26	36	28	38	30
LC	24	J- 1	20	00	20	- 00	00







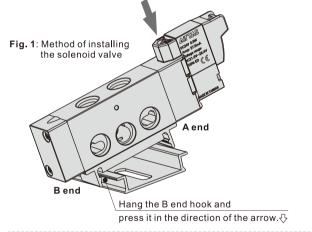
Installation and Application(Integrated Solenoid valve)

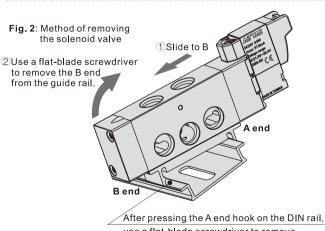


Configurations of integrated solenoid valve:

NO.	Name of module	ame of module How to order	
1	Inlet and outlet module	Contains in the DIN guide rail, can't be ordered independently	Left and right positions are interchangeable
2	DIN Guide rail	Refer to ordering code for detail	
3	Solenoid valve(Single solenoid(5/2 Way))	Refer to ordering code for detail	It can be installed at any position
4	Solenoid valve(Double solenoid(5/2 Way))	enoid valve(Double solenoid(5/2 Way)) Refer to ordering code for detail	
(5)	Solenoid valve(5/3 Way)	Refer to ordering code for detail	and can be added or removed at will.
6	End cover	Contains in the DIN guide rail, can't be ordered independently	Left and right positions are interchangeable

- 1. The integrated solenoid valve group is a highly integrated valve block consisting of a solenoid valve, an inlet and outlet module, a end cover, and a DIN guide rail.
- 2. Each functional module in the integrated solenoid valve group can be freely replaced, the number of stations can be increased or decreased according to demand.
- ${\it 3. The method of increasing stations:}\\$
- 1 Loosen the stop screw. a
- 2 Separate the original solenoid valves that you wish to add.
- The newly added solenoid valve is mounted on the DIN rail according to the "Fig. 1" method.
- Push the other functional modules to make them tightly connected, then tighten the stop screws (a) to complete the increasing stations.
- 4. Notice:
- 4.1) Stop screw tightening torque: 6HV0500: 1N.m/6HV100: 1.4N.m.
- 4.2) Fastening method: first fix one end cover, then push each function module hard so that there is no gap between the valves, then tighten the stop screw at the other end.
- 4.3) When reassembling: If the connection between the valves and the tightening torque of the stop screw are insufficient, air leakage may occur. Before ventilating, please make sure there is no gap between the valves, and firmly fix it on the guide rail before venting.
- 5. The method of removing the solenoid valve from the DIN rail: Refer to the requirements of "Fig. 2" for details.





use a flat-blade screwdriver to remove the B end from the guide rail.

