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

4V100 Series





\$V100



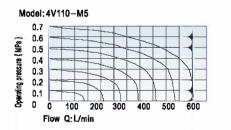
Symbol

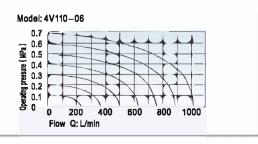


Product feature

- 1, Pilot-oriented mode:Internal pilot or external pilot.
- Structure in sliding column mode: good tightness and sensitive reaction.
- Three position solenoid valves have three kinds of central function for your choice.
- 4. Double control solenoid valves have memory function.
- Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 6. No need to add oil for lubrication.
- It is available to form integrated valve group with the base to save installation space.
- 8. Affiliated manual devices are equipped to facilitate installation and debugging.
- 9. Several standard voltage grades are optional.

Flow chart





Specification

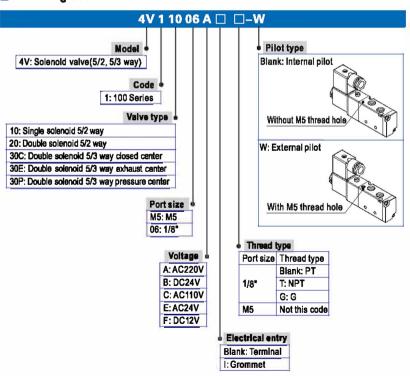
Model	4V110-M5 4V120-M5	4V130C-M5 4V130E-M5 4V130P-M5	4V110-06 4V120-06	4V130C-06 4V130E-06 4V130P-06			
Fluid	Air(to be filtered by 40 μ m filter element)						
Acting	Internal pilot or external pilot						
Port size ①	In=Out=M5		In=Out=1/8*				
Orifice size	5.5mm² (Cv=0.31)	5.0mm² (Cv=0.28)	12.0mm² (Cv=0.67)	9.0mm² (Cv=0.50)			
Valve type	5 port 2 position	5 port 3 position	5 port 2 position	5 port 3 position			
Operating pressure	0.15~0.8MPa(21~114psi)						
Proof pressure	1.5MPa(215psi)						
Temperature ℃	-20~70						
Material of body	Aluminum alloy						
Lubrication ②	Not required						
Max. frequency ③	5 cycle/sec	3 cycle/sec	5 cycle/sec	3 cycle/sec			
Weight	4V110-M5:120g 4V120-M5:175g	200g	4V110-06:120g 4V120-06:175g 200g				

- 1 PT thread, NPT thread and G thread are available.
- ② Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.
- 3 The maximum actuation frequency is in the no-load state.

Coil specification

Item	Specitification Specification		
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V		
Scope of voltage	AC: ± 15% DC: ± 10%		
Power consumption	AC:2.5VA DC:2.5W		
Protection	IP65(DIN40050)		
Temperature classification	B Class		
Electrical entry	Terminal, Grommet		
Activating time	0.05 sec and below		

Ordering code



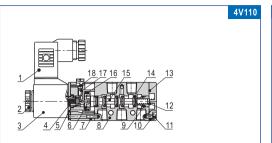
Please refer to 37 for manifold specification and the order way.

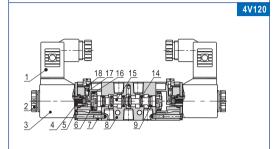


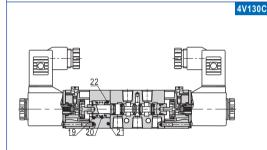
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Inner structure

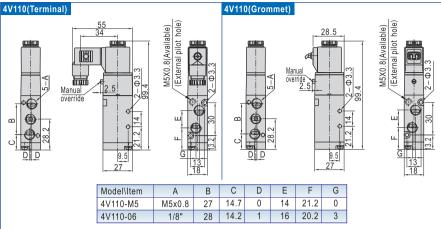


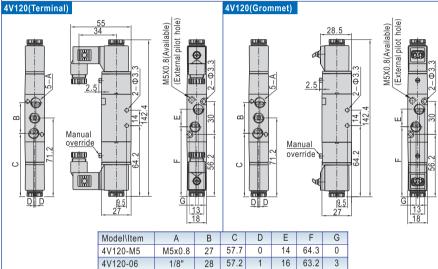


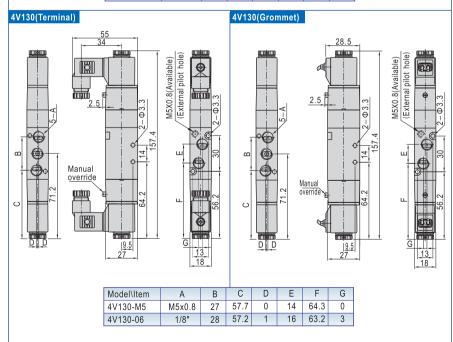


No.	Item	No.	Item	N0.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil net	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit	15	Spool		
8	Body	16	Piston O-ring		

Dimensions







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