

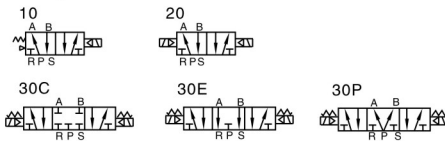
Solenoid valve (5/2 、 5/3 way)

4V100 Series

4V100



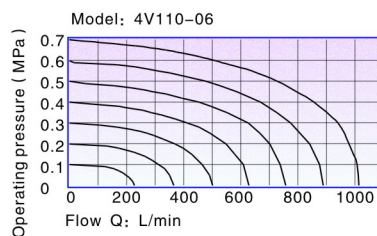
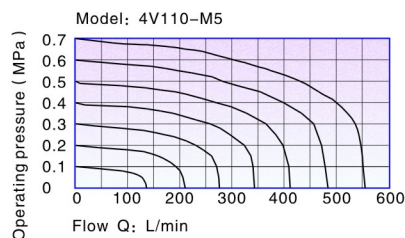
Symbol



Product feature

- 1、Pilot-oriented mode: optional for internal or external;
- 2、Structure in sliding column mode: good tightness and sensitive reaction;
- 3、Three position solenoid valves have three kinds of central function for your choice;
- 4、Double control solenoid valves have memory function;
- 5、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;
- 7、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 40um filter element)			
Acting	Internal piloted			
Port size ①	In=Out=M5		In=Out =1/8"	
Orifice size	5.5mm ² (Cv=0.31)	5.0mm ² (Cv=0.28)	12.0mm ² (Cv=0.67)	9.0mm ² (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 G thread and PT thread are available;

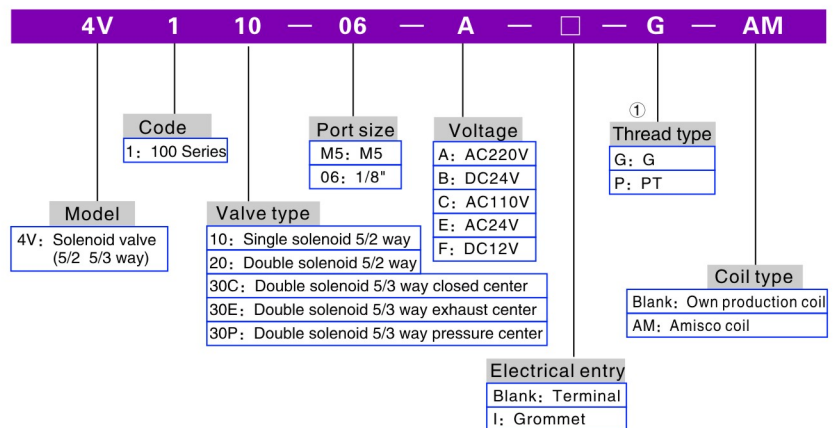
② It can not stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

③ The maximum actuation frequency is in the no-load state.

Coil specification

Item	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



① When the thread is M5 type, the code is blank.

Please refer to PI-35 for manifold specification and the order way.



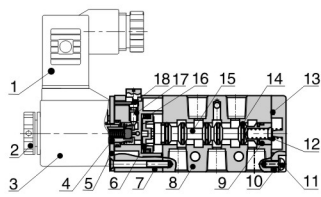
Solenoid valve (5/2 、 5/3 way)

AIRTAC

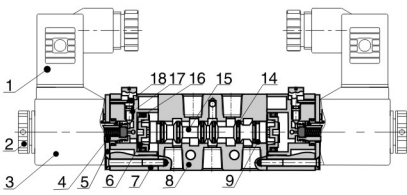
4V100 Series

Inner structure

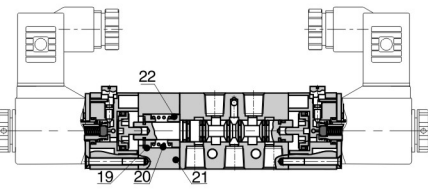
4V110



4V120



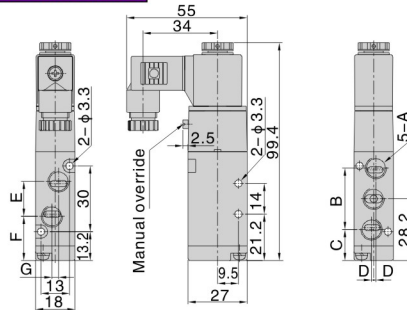
4V130C



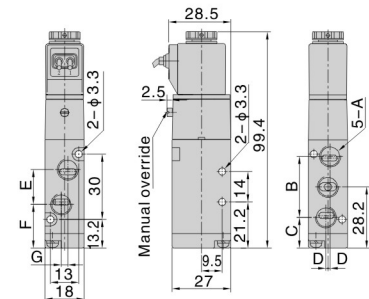
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wearing ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot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

■ Dimensions

4V110(Terminal)

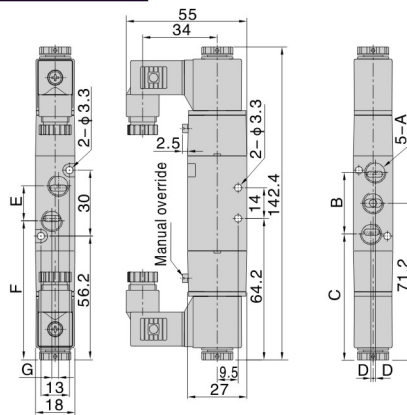


4V110(Grommet)

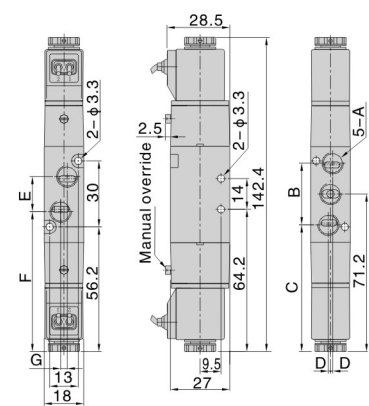


Model\Item	A	B	C	D	E	F	G
4V110-M5	M5 × 0.8	27	14.7	0	14	21.2	0
4V110-06	1/8"	28	14.2	1	16	20.2	3

4V120(Terminal)

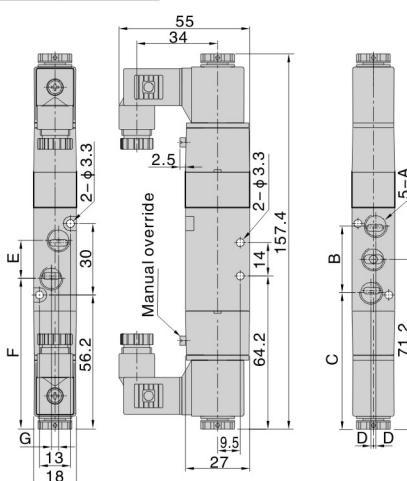


4V120(Grommet)

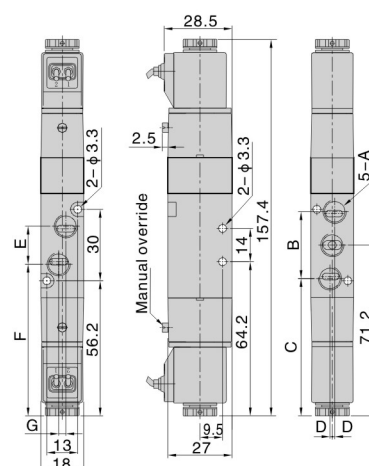


Model\Item	A	B	C	D	E	F	G
4V120-M5	M5 × 0.8	27	57.7	0	14	64.3	0
4V120-06	1/8"	28	57.2	1	16	63.2	3

4V130(Terminal)



4V130(Grommet)



Model\Item	A	B	C	D	E	F	G
4V130-M5	M5 × 0.8	27	57.7	0	14	64.3	0
4V130-06	1/8"	28	57.2	1	16	63.2	3



4V100