

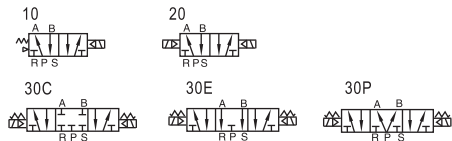
Solenoid valve(5/2 , 5/3 way)



4V100 Series



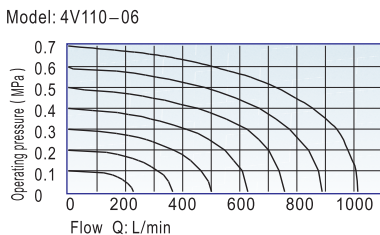
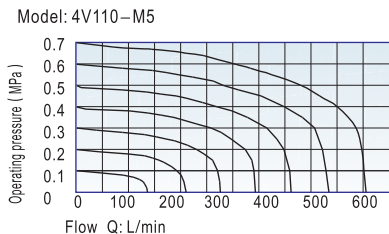
Symbol



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 40 μ m filter element)			
Acting	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 3 position	5 port 2 position	5 port 3 position	5 port 2 position
Operating pressure	0.15~0.8MPa(21~114psi)			
Proof pressure	1.5MPa(215psi)			
Temperature °C	-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	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

4V 1 10 06 A □ P

Model

4V: Solenoid valve(5/2, 5/3 way)

Code

1: 100 Series

Valve type

10: Single solenoid 5/2 way
20: Double solenoid 5/2 way
30C: Double solenoid 5/3 way closed center
30E: Double solenoid 5/3 way exhaust center
30P: Double solenoid 5/3 way pressure center

Port size

M5: M6
06: 1/8"

Thread type

Port size Thread type
1/8" P: PT
T: NPT
G: G
M5 Not this code

Electrical entry

Blank: Terminal
I: Grommet

Voltage

A: AC220V
B: DC24V
C: AC110V
E: AC24V
F: DC12V

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



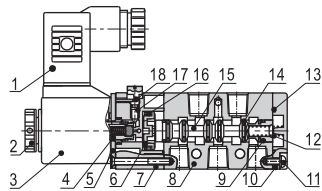
Solenoid valve(5/2 , 5/3 way)



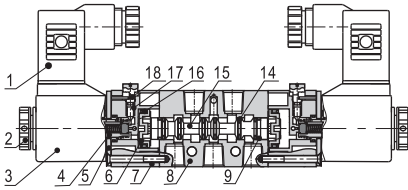
4V100 Series

Inner structure

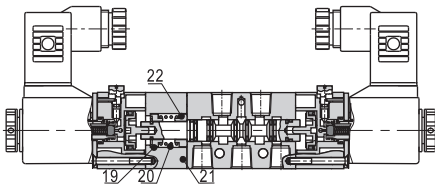
4V110



4V120



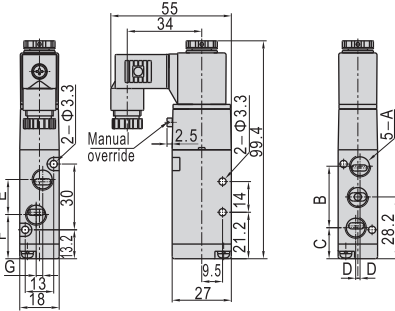
4V130C



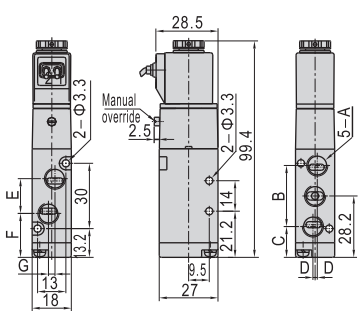
No.	Item	No.	Item	N0.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil net	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit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

Dimensions

4V110(Terminal)

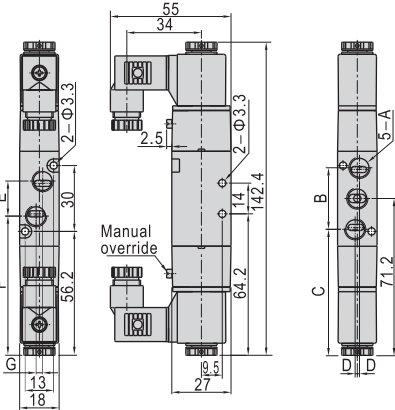


4V110(Grommet)

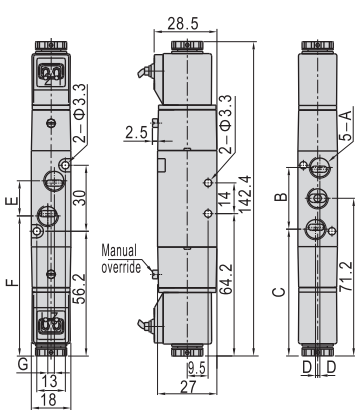


Model\Item	A	B	C	D	E	F	G
4V110-M5	M5x0.8	27	14.7	0	14	21.2	0
4V110-06	1/8"	28	14.2	1	16	20.2	3

4V120(Terminal)

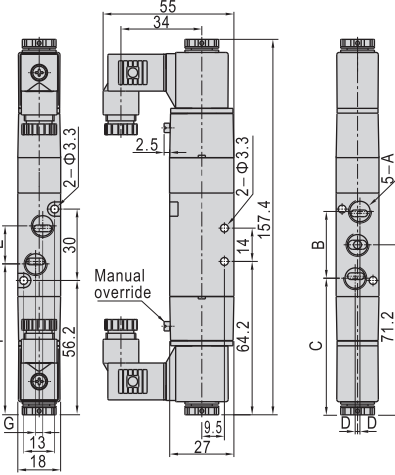


4V120(Grommet)

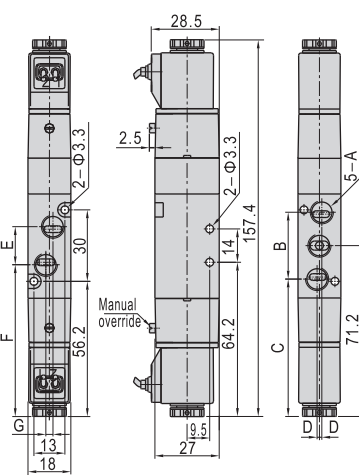


Model\Item	A	B	C	D	E	F	G
4V120-M5	M5x0.8	27	57.7	0	14	64.3	0
4V120-06	1/8"	28	57.2	1	16	63.2	3

4V130(Terminal)



4V130(Grommet)



Model\Item	A	B	C	D	E	F	G
4V130-M5	M5x0.8	27	57.7	0	14	64.3	0
4V130-06	1/8"	28	57.2	1	16	63.2	3

