

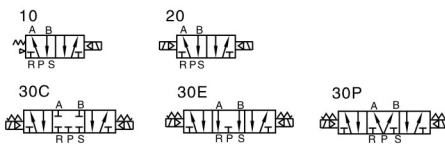
Solenoid valve (5/2 、 5/3 way)

4V400 Series

4V400



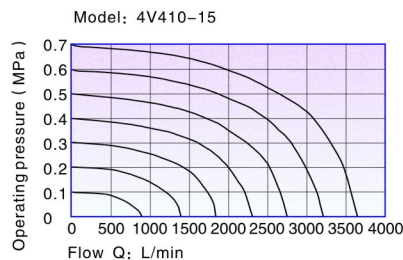
Symbol



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	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Fluid	Air(to be filtered by 40um filter element)				
Acting	Internal piloted				
Port size ①	In=Out=Exhaust=1/2"				
Orifice size	50.0mm ² (Cv=2.79)		30.0mm ² (Cv=1.68)		
Valve type	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	3 cycle/sec				
Weight	590g	720g	770g		

① G thread and PT thread are available;

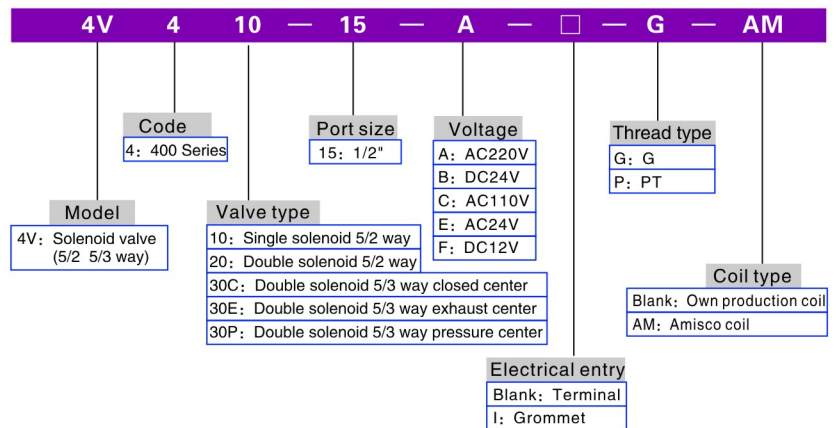
② It can not stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended;

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: 3.5VA DC : 3.0W
Protection	IP65 (DIN40050)
Temperature classification	B Class
Electrical entry	Terminal, Grommet
Activating time	0.05 sec and below

Ordering code



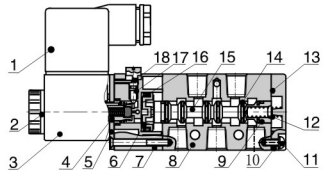
Please refer to PI-35 for manifold specification and the order way.

Solenoid valve (5/2 、 5/3 way)

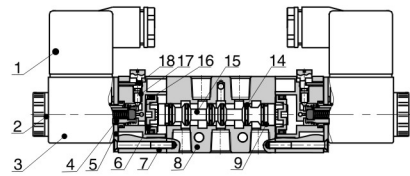
4V400 Series

Inner structure

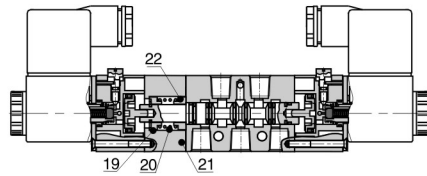
4V410



4V420



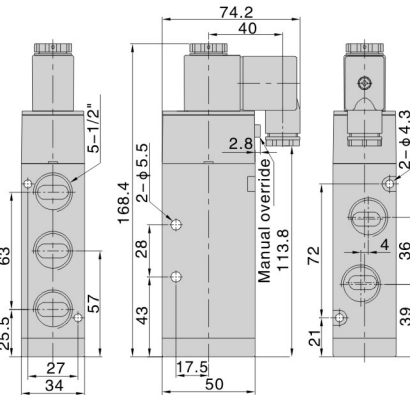
4V430C



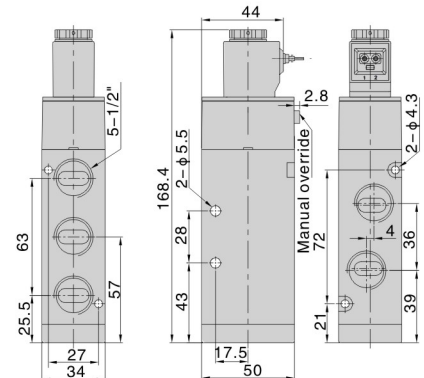
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wearing ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot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

■ Dimensions

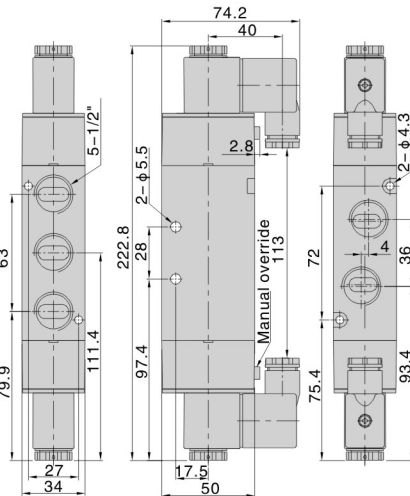
4V410(Terminal)



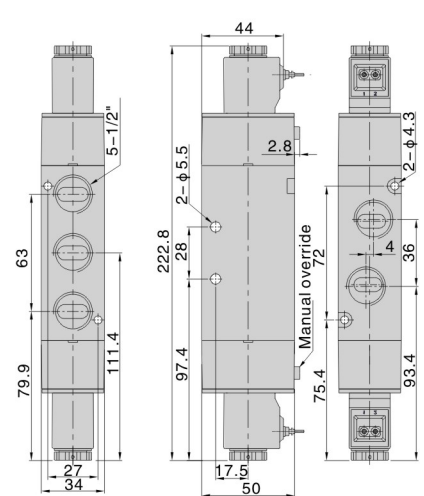
4V410(Grommet)



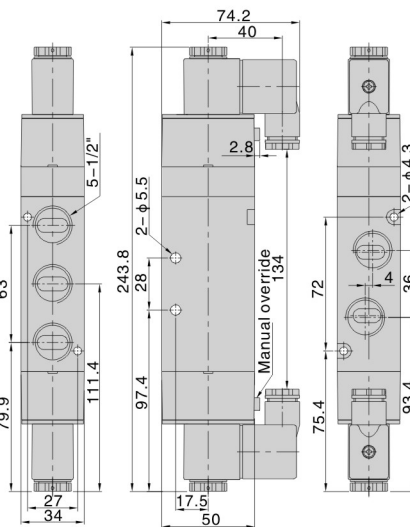
4V420(Terminal)



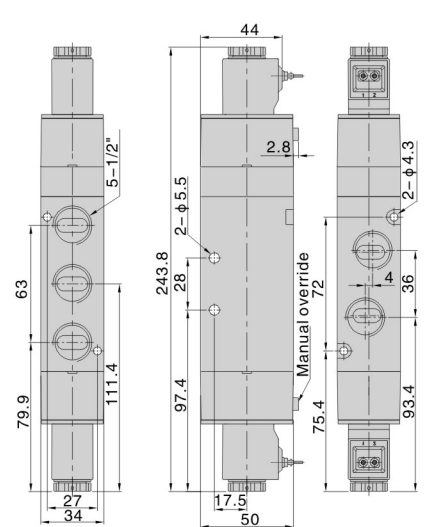
4V420(Grommet)



4V430(Terminal)



4V430(Grommet)



4V400