

Air valve (5/2 5/3 way)

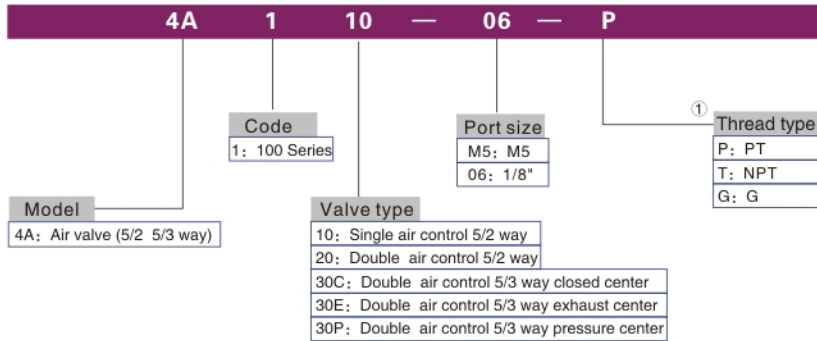
4A100 Series

Specification

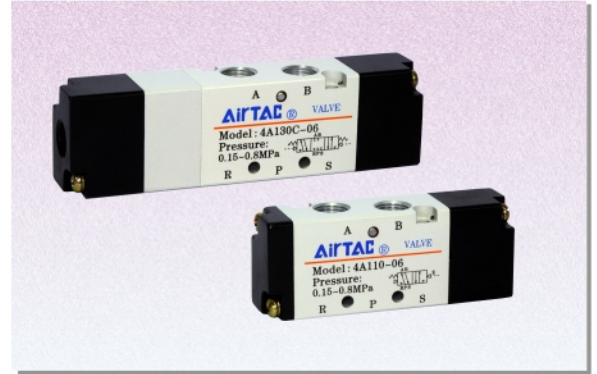
Model	4A110-M5 4A120-M5	4A130C-M5 4A130E-M5 4A130P-M5	4A110-06 4A120-06	4A130C-06 4A130E-06 4A130P-06
Fluid	Air (to be filtered by 40um filter element)			
Acting	Exterior control			
Port size ①	In=Out=M5		In=Out =1/8"	
Orifice size	5.5mm ² (Cv=0.31)	5.0mm ² (Cv=0.28)	12.0mm ² (Cv=0.67)	9.0mm ² (Cv=0.50)
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	4A110-M5:85g 4A120-M5:140g	165g	4A110-06:85g 4A120-06:140g	165g

- ① PT thread, NPT thread and G 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.

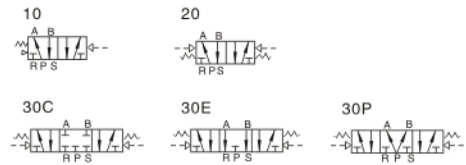
Ordering code



① When the thread is M5 type, the code is blank.
 Please refer to PI-34 for manifold specification and the order way.



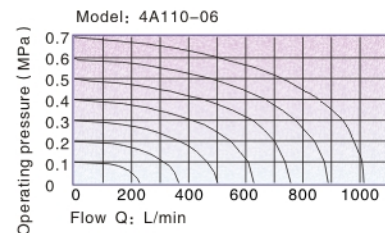
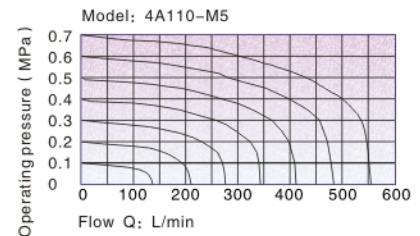
Symbol



Product feature

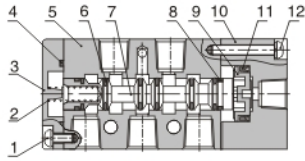
- Structure in sliding column mode: good tightness and sensitive reaction
- There are three medium functions of three-position air valves for your choice;
- Two-position air control valve with two heads has memory function;
- Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life;
- No need to add oil for lubrication;
- Integrate with the manifold to save installation space.

Flow chart

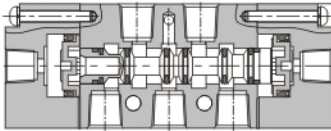


Inner structure

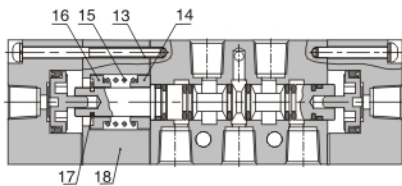
4A110



4A120



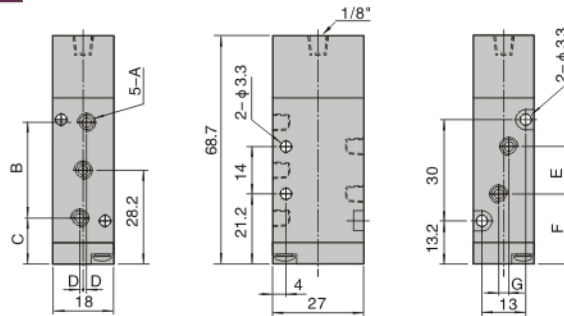
4A130C



NO.	Item	NO.	Item
1	Bottom cover screw	10	Pilot body
2	Spool spring	11	Piston O-ring
3	Bottom cover	12	Pilot screw
4	Bottom cover gasket	13	Pilot screw
5	Body	14	Return seat
6	Spool O-ring	15	Return spring
7	Spool	16	Return seat
8	Wear ring	17	E clip
9	Piston	18	Side cover

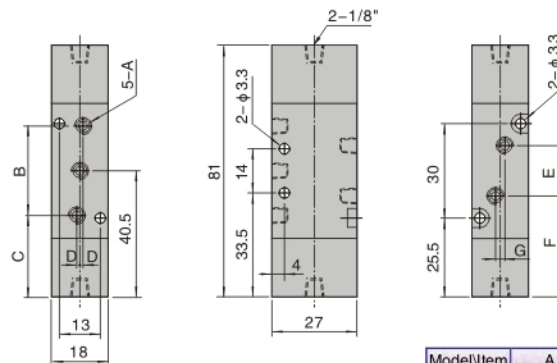
Dimensions

4A110



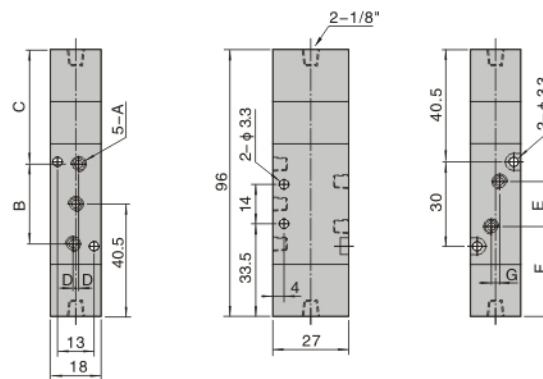
Model\Item	A	B	C	D	E	F	G
4A110-M5	M5 × 0.8	27	14.7	0	14	21.2	0
4A110-06	1/8"	28	14.2	1	16	20.2	3

4A120



Model\Item	A	B	C	D	E	F	G
4A120-M5	M5 × 0.8	27	27	0	14	33.5	0
4A120-06	1/8"	28	26.5	1	16	32.5	3

4A130



Model\Item	A	B	C	D	E	F	G
4A130-M5	M5 × 0.8	27	42.5	0	14	33.5	0
4A130-06	1/8"	28	41.5	1	16	32.5	3

