3A100 Series





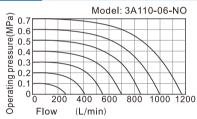
Symbol



Product feature

- Structure in sliding column mode: good tightness and sensitive reaction.
- 2. Double air control valves have memory function.
- Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 4. No need to add oil for lubrication.
- 5. Multi-mounting helps to install and apply.
- 6. Integrate with the manifold to save installation space.

Flow chart



The data in flow rate chart are obtained from AirTAC lab.

Specification

Model	3A110-M5	3A120-M5	3A110-06	3A120-06	
Fluid	Air(to be filtered by 40 µ m filter element)				
Acting		Exterio	control		
Port size [Note1]	M5 1/8"				
Orifice size(Cv)[Note4]	3A1	10-06,3A120-0	6:10.2mm²(Cv=	0.6)	
Valve type	3 port 2 position				
Lubrication [Note2]	Not required				
Operating pressure	0.15~0.8MPa(21~114psi)				
Proof pressure	1.2MPa(175psi)				
Temperature	-20~70℃				
Material of body	Aluminum alloy				
Max. frequency [Note3]	5 cycle/sec				

[Note1] PT thread, G thread and NPT thread are available.

[Note2] Once lubricated air is used, continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended.

[Note3] The maximum actuation frequency is in the no-load state.

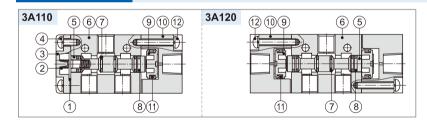
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



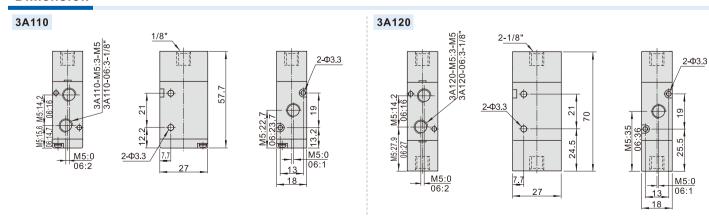
Please refer to 114 for manifold specification and the order way.

Inner structure



No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Piston screw

Dimension





Symbol



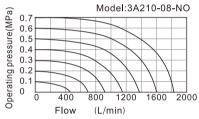
Product feature

- 1. Structure in sliding column mode: good tightness and sensitive reaction.
- 2. Double air control valves have memory function.

Pressure: 0.15~0.8MPa

- 3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 4. No need to add oil for lubrication.
- 5. Multi-mounting helps to install and apply.
- 6. Integrate with the manifold to save installation space.

Flow chart



The data in flow rate chart are obtained from AirTAC lab.

Specification

Model	3A210-06	3A220-06	3A210-08	3A220-08	
Fluid	Air(to be filtered by 40 µ m filter element)				
Acting		Exterio	control		
Port size [Note1]	In=Ou	t=1/8"	In=Out=1/4"		
Orifice size(Cv)[Note4]	3A2	10-08,3A220-0	8:17.0mm²(Cv=	1.0)	
Valve type	3 port 2 position				
Lubrication [Note2]	Not required				
Operating pressure	0.15~0.8MPa(21~114psi)				
Proof pressure	1.2MPa(175psi)				
Temperature	-20~70℃				
Material of body	Aluminum alloy				
Max. frequency [Note3]	5 cycle/sec				

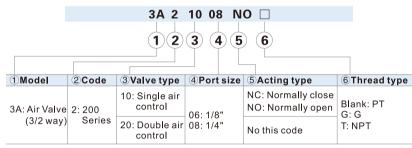
[Note1] PT thread, G thread and NPT thread are available.

[Note2] Once lubricated air is used, continue with same medium to optimise valve life span Lubricants like ISO VG32 or equivalent are recommended.

[Note3] The maximum actuation frequency is in the no-load state.

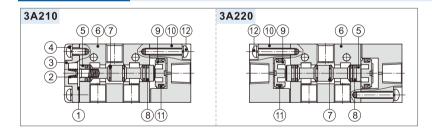
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



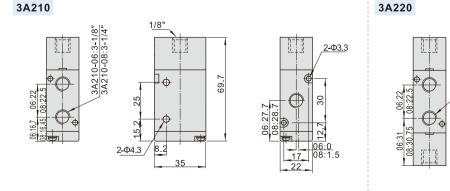
Please refer to 114 for manifold specification and the order way.

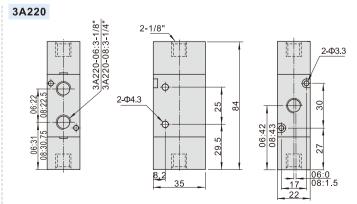
Inner structure



No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Piston screw

Dimension



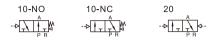




3A300 Series



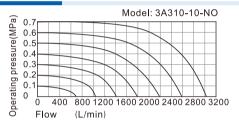
Symbol



Product feature

- Structure in sliding column mode: good tightness and sensitive reaction.
- 2. Double air control valves have memory function.
- Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 4. No need to add oil for lubrication.
- 5. Multi-mounting helps to install and apply.
- 6. Integrate with the manifold to save installation space.

Flow chart



The data in flow rate chart are obtained from AirTAC lab.

Specification

Model	3A310-08	3A320-08	3A310-10	3A320-10	
Fluid	Air(to be filtered by 40 µ m filter element)				
Acting		Exterio	control		
Port size [Note1]	In=Ou	t=1/4"	In=Out=3/8"		
Orifice size(Cv)[Note4]	3A3	10-10,3A320-10):28.0mm²(Cv=1	.65)	
Valve type	3 port 2 position				
Lubrication [Note2]	Not required				
Operating pressure	0.15~0.8MPa(21~114psi)				
Proof pressure	1.2MPa(175psi)				
Temperature	-20~70℃				
Material of body	Aluminum alloy				
Max. frequency [Note3]	5 cycle/sec				

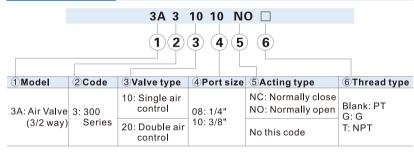
[Note1] PT thread, G thread and NPT thread are available.

[Note2] Once lubricated air is used, continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended.

[Note3] The maximum actuation frequency is in the no-load state.

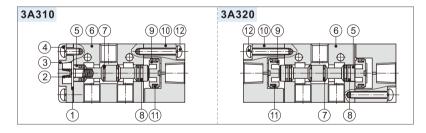
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



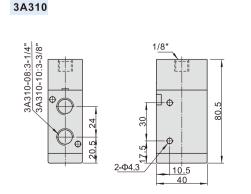
Please refer to 114 for manifold specification and the order way.

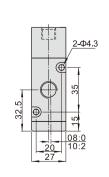
Inner structure

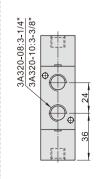


No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Piston screw

Dimension







3A320

