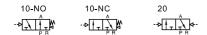


3A100 Series



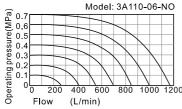
Symbol



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	3A120-06									
Fluid	Air(to be filtered by	40µm filter e l em	ent)							
Acting	Exterior control										
Port size [Note1]	M	15	1/	8"							
Orifice size(Cv)[Note4]	3A110-06,3A120-06:10.2mm ² (Cv=0.6)										
Valve type	3 port 2 position										
Lubrication [Note2]		Not re	quired								
Operating pressure		0.15~0.8MPa	a(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.

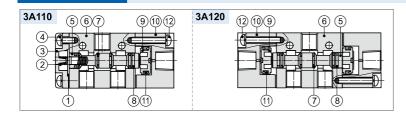
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



Please refer to P128 for manifold specification and the order way.

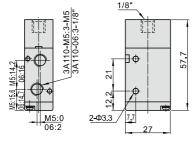
Inner structure

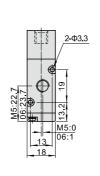


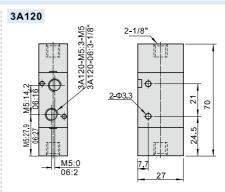
No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Screw

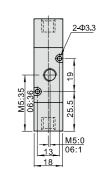
Dimension









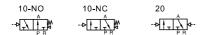


AITTAC

3A200 Series



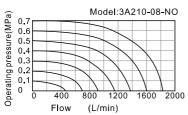
Symbol



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	3A210-06	3A210-08	3A220-08							
Fluid	Air(to be filtered by	40µm filter e l em	ent)						
Acting	Exterior control									
Port size [Note1]	In=Ou	t=1/8"	In=Ou	t=1/4"						
Orifice size(Cv)[Note4]	3A210-08,3A220-08:17.0mm ² (Cv=1.0)									
Valve type	3 port 2 position									
Lubrication [Note2]		Not re	quired							
Operating pressure		0.15~0.8MPa	a(21~114psi)							
Proof pressure		1.2MPa	(175psi)							
Temperature		-20~	70℃							
Material of body		Aluminu	ım alloy							
Max. frequency [Note3]	5 cycle/sec									

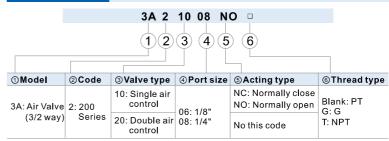
[Note1] PT thread, G thread and NPT thread are available.

[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.

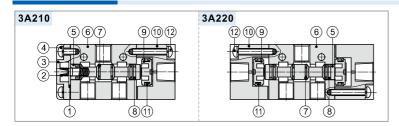
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



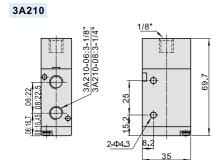
Please refer to P128 for manifold specification and the order way.

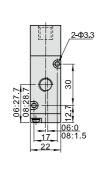
Inner structure

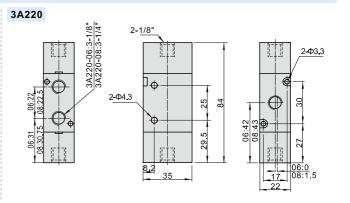


No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Screw

Dimension





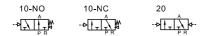


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3A300 Series



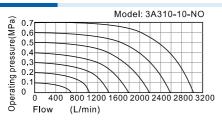
Symbol



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	3A320-10									
Fluid	Air(Air(to be filtered by 40µm filter element)									
Acting	Exterior control										
Port size [Note1]	In=Ou	t=1/4"	In=Out=3/8"								
Orifice size(Cv)[Note4]	3A310-10,3A320-10:28.0mm ² (Cv=1.65)										
Valve type	3 port 2 position										
Lubrication [Note2]		Not re	quired								
Operating pressure		0.15~0.8MPa	a(21~114psi)								
Proof pressure		1.2MPa	(175psi)								
Temperature		-20~	70℃								
Material of body		Aluminu	ım alloy								
Max. frequency [Note3]	5 cycle/sec										

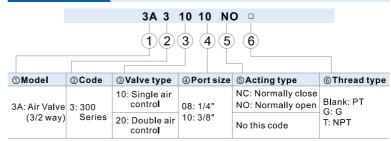
[Note1] PT thread, G thread and NPT thread are available.

[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.

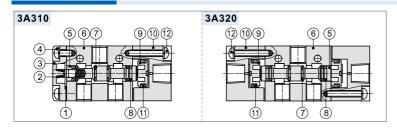
[Note4] Equivalent orifice S and Cv are all calculated from the flow rate data.

Ordering code



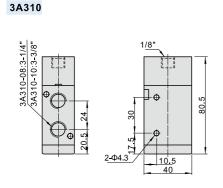
Please refer to P128 for manifold specification and the order way.

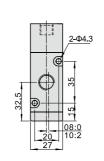
Inner structure

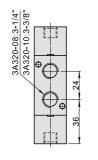


No.	Item	No.	Item	No.	Item		
1	Bottom cover gasket	5	Spool	9	Piston		
2	Spring	6	Body	10	Pilot body		
3	Bottom cover	7	O-ring	11	Piston O-ring		
4	Bottom cover screw	8	Wear ring	12	Screw		

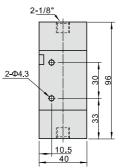
Dimension

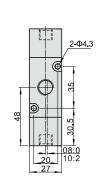






3A320







Manifold



Specification

Item\Manifold Model	100M	300M								
Fluid	Air(to be filtered by 40µm filter element)									
Temperature	- 20~70°C									
Adoptable valve's series	3A100 Series	3A200 Series	3A300 Series							

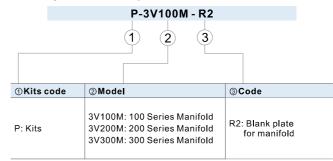
Product feature

- 1. It is available to integrate the direction control valves of the same series to form valve group to save space and cost;
- 2. It is easy to examine when there are faults owning to the unified air intake and exhaust and unified wiring;
- 3. Flexible combination and strong expansion capability can make any combination or expansion of the numbers of direction control valves that are connected.

Ordering code



Ordering code for blank plate

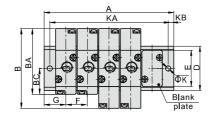


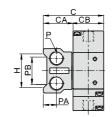
[Note] 1. Ordering code contains manifold and blank plate.

- 2. Manifold kits contains manifold, seal and screw.
- 3. Blank plate kits contains blank plate, and screw.

Dimensions

With 3A air valve





Model\Item	В	ВА	вс	С	CA	СВ	D	Е	F	G	Н	K	KB	P	PA	ΡВ
3V100M	70	57.7	22.7	53	26	27	39	32	19	19	30	4.5	5	1/4"	11.5	22
3V200M	84	69.7	27.7	61	26	35	45	40	23	23	35	4.5	6	1/4"	11.5	25
3V300M	96	80.5	32.5	70	30	40	52	47	28	27	42	4.5	6	3/8"	13.5	28

Model\Item		A														
Woderatem	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
3V100M	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
3V200M	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
3V300M	54	82	110	138	166	194	222	250	278	306	334	362	390	418	446	474

Model\Item		KA														
Woderntein	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
3V100M	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313
3V200M	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379
3V300M	42	70	98	126	154	182	210	238	266	294	322	350	378	406	434	462