Product series

Installation and Application

1. Before installing, be sure the valve hasn't been damaged via transportation.
2. It's suggested to use the medium lubricated by 40 μ m filter element. Be aware of the flow direction and port size.
3. Please notice whether the installation condition accords with technical requirements (such as“act-uation frequency”, “working pressure” and “scope of application temperature”), then the equipment can be installed and used.
4. Notice the flow direction of air during installation, P is the air intake, A (B) is the work port and R (S) is the exhaust outlet.
5. Take measure to avoid vibration and frozen.
6. Firstly press the base gasket into the base, and then connect the base with the valve body by the affiliated screws. The base gasket can be pressed into the installation places that are not used temporarily, and then seal them with affiliated blank cap. When the system expands, take the blank cap off and install relative air valves;
7. To keep the dust away, please use the silencer for the exhaust ports. Never forget to install dirt-proof boot in air intake and outlet during dismounting.

Air valve(3/2 way)

3A100 Series

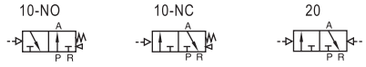
3A100

Specification

Model	3A110-M5	3A120-M5	3A110-06	3A120-06
Fluid	Air(to be filtered by 40 μ m filter element)			
Acting	Exterior control			
Port size ①	M5		1/8"	
Orifice size	5.5mm²(Cv=0.31)		12.0mm²(Cv=0.67)	
Valve type	3 port 2 position			
Lubrication ②	Not required			
Operating pressure	0.15~0.8MPa(21~114psi)			
Proof pressure	1.5MPa(215psi)			
Temperature ℃	-20~70			
Material of body	Aluminum alloy			
Max. frequency ③	5 cycle/sec			

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.

Symbol

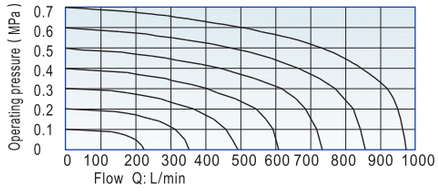


Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Double air control valves have memory function.
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. Malti-mounting helps to install and apply.
6. Integrate with the manifold to save installation space.

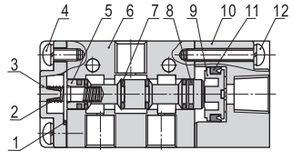
Flow chart

Model: 3A110–06–NO

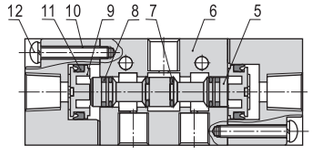


Inner structure

3A110



3A120



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

Ordering code

3A 1 10 06 NO P

Model
3A: Air Valve(3/2 way)

Code
1: 100 Series

Valve type
10: Single air control
20: Double air control

Port size
M5: M5
06: 1/8"

Thread type

Port size	Thread type
1/8"	P: PT
	T: NPT
	G: G
M5	No this code

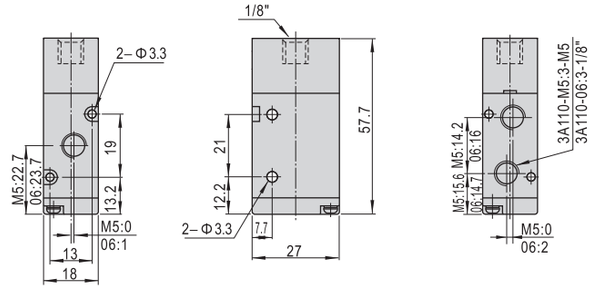
Acting type

Valve type	Acting type
10	NC: Normally close
	NO: Normally open
20	NO code

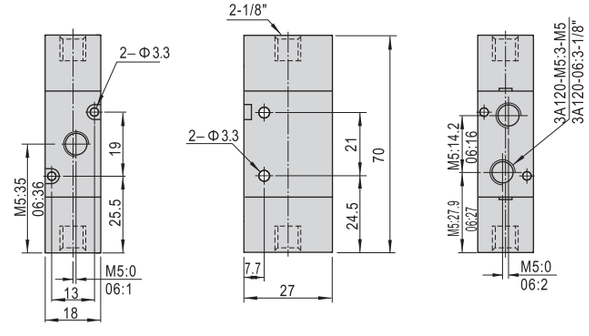
Please refer to 69 for manifold specification and the order way.

Dimension

3A110



3A120



Air valve(3/2 way)

3A200 Series

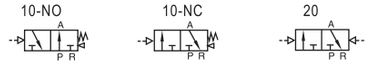
3A200

Specification

Model	3A210-05	3A220-06	3A210-08	3A220-08
Fluid	Air(to be filtered by 40 μ m filter element)			
Acting	Exterior control			
Port size ①	In=Out=1/8"		In=Out=1/4"	
Orifice size	14.0mm²(Cv=0.78)		16.0mm²(Cv=0.89)	
Valve type	3 port 2 position			
Lubrication ②	Not required			
Operating pressure	0.15~0.8MPa(21~114psi)			
Proof pressure	1.5MPa(215psi)			
Temperature ℃	-20~70			
Material of body	Aluminum alloy			
Max. frequency ③	5 cycle/sec			

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.

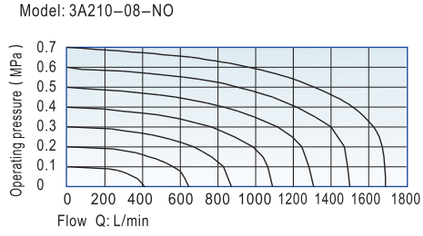
Symbol



Product feature

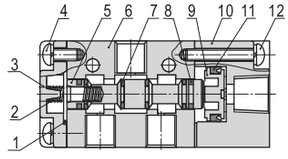
1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Double air control valves have memory function.
3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
4. No need to add oil for lubrication.
5.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

Flow chart

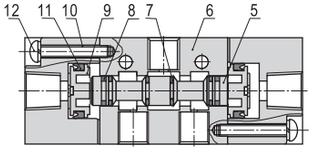


Inner structure

3A210



3A220



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

Ordering code

3A 2 10 08 NO P

Model
3A: Air Valve(3/2 way)

Code
2: 200 Series

Valve type
10: Single air control
20: Double air control

Port size
06: 1/8"
08: 1/4"

Thread type
P: PT
T: NPT
G: G

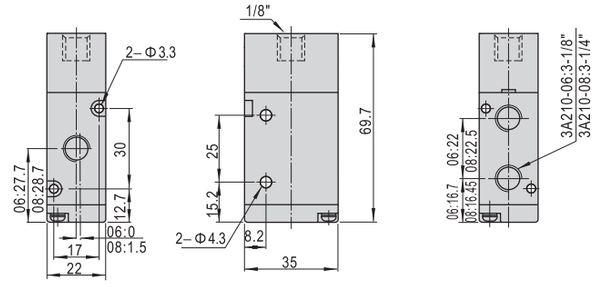
Acting type

Valve type	Acting type
10	NC: Normally close
	NO: Normally open
20	NO code

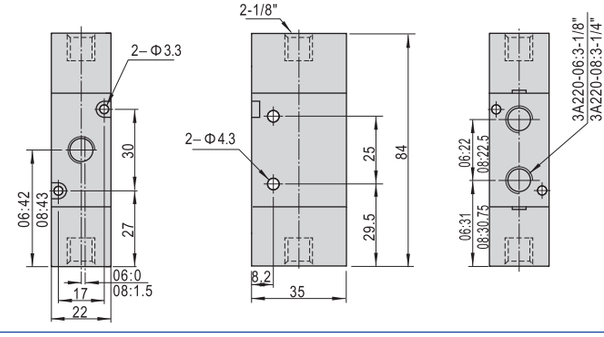
Please refer to 69 for manifold specification and the order way.

Dimension

3A210



3A220



Air valve(3/2 way)

3A300 Series

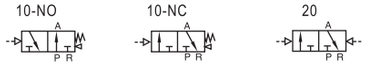
3A300

Specification

Model	3A310-08	3A320-08	3A310-10	3A320-10
Fluid	Air(to be filtered by 40 μ m filter element)			
Acting	Exterior control			
Port size ①	In=Out=1/4"		In=Out=3/8"	
Orifice size	25.0mm²(Cv=1.35)		30.0mm²(Cv=1.67)	
Valve type	3 port 2 position			
Lubrication ②	Not required			
Operating pressure	0.15~0.8MPa(21~114psi)			
Proof pressure	1.5MPa(215psi)			
Temperature ℃	-20~70			
Material of body	Aluminum alloy			
Max. frequency ③	5 cycle/sec			

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 of no-load state.

Symbol

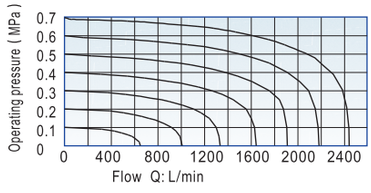


Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Double air control valves have memory function.
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. Malti-mounting helps to install and apply.
6. Integrate with the manifold to save installation space.

Flow chart

Model: 3A310-10-NO



Ordering code

3A 3 10 10 NO P

Model
3A: Air Valve(3/2 way)

Code
3: 300 Series

Valve type

10: Single air control
20: Double air control

Port size

08: 1/4"
10: 3/8"

Thread type

P: PT
T: NPT
G: G

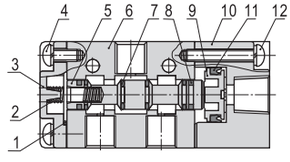
Acting type

Valve type	Acting type
10	NC: Normally close
	NO: Normally open
20	NO code

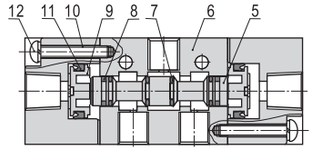
Please refer to 69 for manifold specification and the order way.

Inner structure

3A310



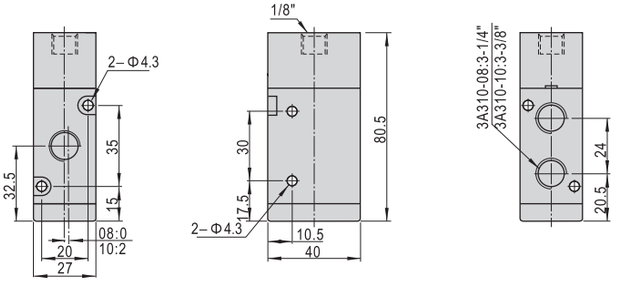
3A310



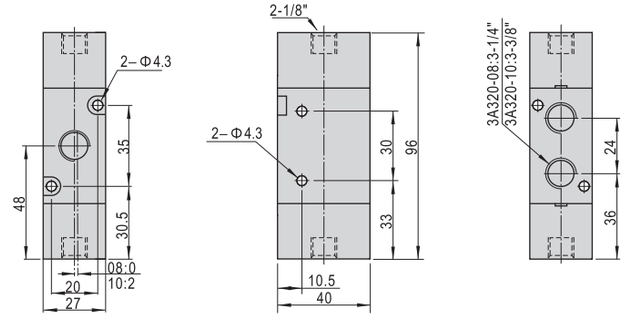
No.	Item	No.	Item	No.	Item
1	Bottom cover gasket	5	Spool	9	Piston
2	Spring	6	Body	10	Pilot body
3	Bottom cover	7	O-ring	11	Piston O-ring
4	Bottom cover screw	8	Wear ring	12	Piston screw

Dimension

3A310



3A310



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

4A100 Series

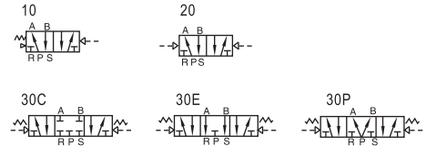
Specification

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 40 μ m filter element)			
Acting	Exterior control			
Port size ①	In=Out=M5		In=Out=1/8"	
Orifice size	5.5mm² (Cv=0.31)	5.0mm² (Cv=0.28)	12.0mm² (Cv=0.67)	9.0mm² (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 (g)	4A110–M5:85 4A120-M5:140	165	4A110–06:85 4A120-06:140	165

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 of no-load state.

4A100

Symbol



Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Three position air valves have three kinds of central function for your choice.
3. Double air control valves have memory function.
4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
5. No need to add oil for lubrication.
6. Integrate with the manifold to save installation space.

Ordering code

4A 1 10 06 P

Model
4A: Air Valve(5/2, 5/3 way)

Code
1: 100 Series

Valve type
10: Single air control 5/2 way
20: Double air control 5/2 way
30C: Double air control 5/3 way closed center
30E: Double air control 5/3 way exhaust center
30P: Double air control 5/3 way pressure center

Thread type

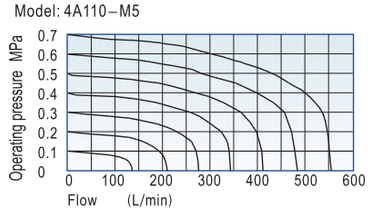
Port size	Thread type
1/8"	P: PT
	T: NPT
	G: G
M5	No this code

Port size
M5: M5
06: 1/8"

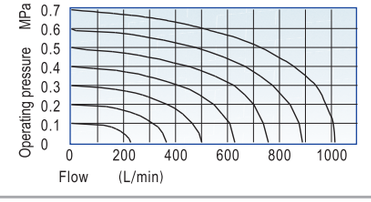
Please refer to 70 for manifold specification and the order way.

Flow chart

Model: 4A110–M5



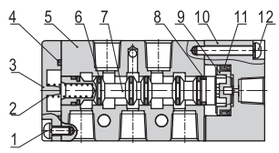
Model: 4A110–06



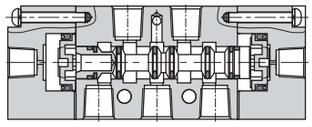
4A100

Inner structure

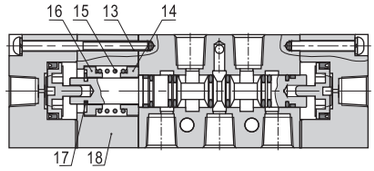
4A110



4A120



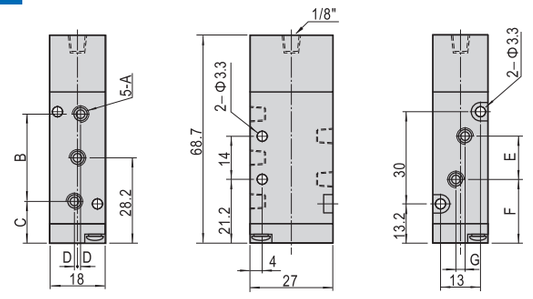
4A130C



No.	Item	No.	Item	No.	Item
1	Screw	7	Spool	13	Screw
2	Spring	8	Wear ring	14	Spring holder
3	Bottom cover	9	Piston	15	Return Spring
4	Bottom cover gasket	10	Pilot body	16	Spring holder
5	Body	11	O-ring	17	E Clip
6	O-ring	12	Screw	18	Side cover

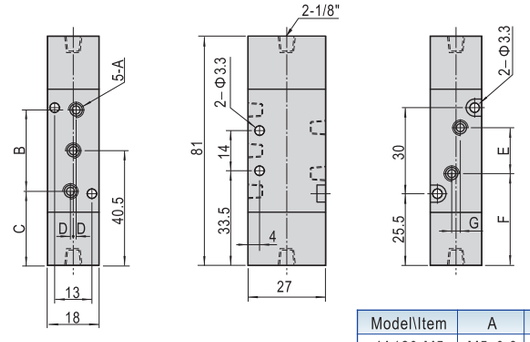
Dimension

4A110



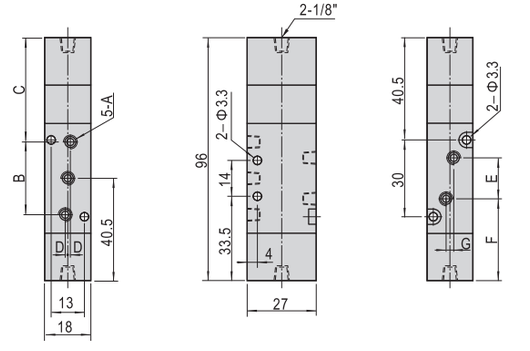
Model\Item	A	B	C	D	E	F	G
4A110-M5	M5x0.8	27	14.7	0	14	21.2	0
4A110-06	1/8"	28	14.2	1	16	20.2	3

4A120



Model\Item	A	B	C	D	E	F	G
4A120-M5	M5x0.8	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	M5x0.8	27	42	0	14	33.5	0
4A130-06	1/8"	28	41.5	1	16	32.5	3

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

4A200 Series

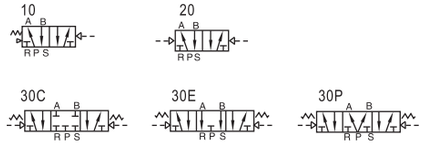
4A200

Specification

Model	4A210–06 4A220-06	4A230C-06 4A230E-06 4A230P-06	4A210–08 4A220-08	4A230C-08 4A230E-08 4A230P-08
Fluid	Air(to be filtered by 40 μ m filter element)			
Acting	Exterior control			
Port size ①	In=Out=Exhaust=1/8"		In=Out=1/4" Exhaust=1/8"	
Orifice size	14.0mm² (Cv=0.78)	12.0mm² (Cv=0.67)	16.0mm² (Cv=0.89)	12.0mm² (Cv=0.67)
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 (g)	4A210–06:185 4A220-06:285	365	4A210–08:185 4A220-08:285	365

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 of no-load state.

Symbol



Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Three position air valves have three kinds of central function for your choice.
3. Double air control valves have memory function.
4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
5. No need to add oil for lubrication.
6. Integrate with the manifold to save installation space.

Ordering code

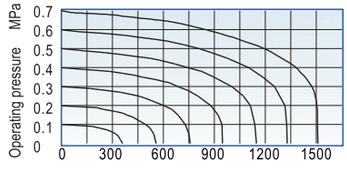
4A 2 10 08 P

- **Model**: 4A: Air Valve(5/2, 5/3 way)
- **Code**: 2: 200 Series
- **Valve type**:
  - 10: Single air control 5/2 way
  - 20: Double air control 5/2 way
  - 30C: Double air control 5/3 way closed center
  - 30E: Double air control 5/3 way exhaust center
  - 30P: Double air control 5/3 way pressure center
- **Port size**: 06: 1/8"; 08: 1/4"
- **Thread type**: P: PT; T: NPT; G: G

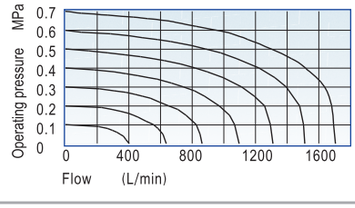
Please refer to 70 for manifold specification and the order way.

Flow chart

Model: 4A210–06



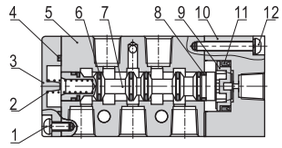
Model: 4A210–08



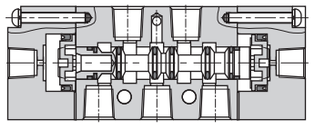
4A200

Inner structure

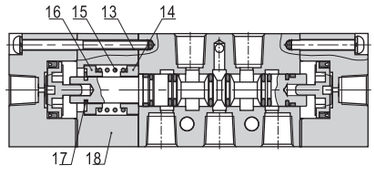
4A210



4A220



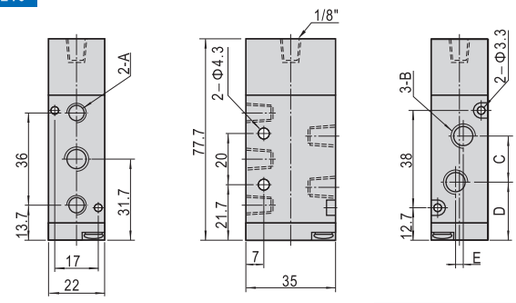
4A230C



No.	Item	No.	Item	No.	Item
1	Screw	7	Spool	13	Screw
2	Spring	8	Wear ring	14	Spring holder
3	Bottom cover	9	Piston	15	Return Spring
4	Bottom cover gasket	10	Pilot body	16	Spring holder
5	Body	11	O-ring	17	E Clip
6	O-ring	12	Screw	18	Side cover

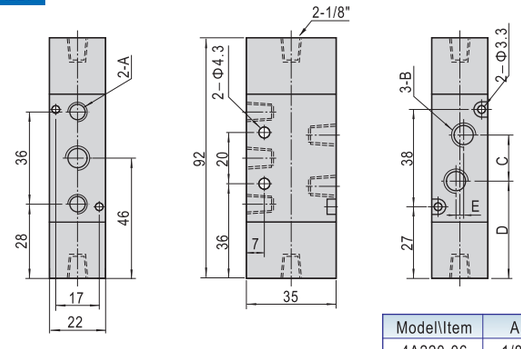
Dimension

4A210



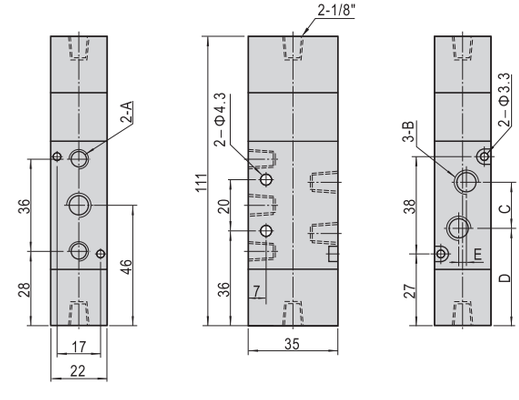
Model\Item	A	B	C	D	E
4A210-06	1/8"	1/8"	18	22.7	0
4A210-08	1/8"	1/4"	21	21.2	3

4A220



Model\Item	A	B	C	D	E
4A220-06	1/8"	1/8"	18	37	0
4A220-08	1/8"	1/4"	21	35.5	3

4A230



Model\Item	A	B	C	D	E
4A230-06	1/8"	1/8"	18	37	0
4A230-08	1/8"	1/4"	21	35.5	3

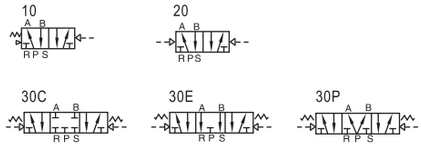
Specification

Model	4A310–08 4A320-08	4A330C-08 4A330E-08 4A330P-08	4A310–10 4A320-10	4A330C-10 4A330E-10 4A330P-10
Fluid	Air(to be filtered by 40 μ m filter element)			
Acting	Exterior control			
Port size ①	In=Out=Exhaust=1/4"		In=Out=3/8" Exhaust=1/4"	
Orifice size	25.0mm² (Cv=1.40)	18.0mm² (Cv=1.00)	30.0mm² (Cv=1.68)	18.0mm² (Cv=1.00)
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	4 cycle/sec	3 cycle/sec	4 cycle/sec	3 cycle/sec
Weight (g)	4A310–08:275 4A320-08:365	505	4A310–10:275 4A320-10:365	505

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 of no-load state.

4A300

Symbol



Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Three position air valves have three kinds of central function for your choice.
3. Double air control valves have memory function.
4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
5. No need to add oil for lubrication.
6. Integrate with the manifold to save installation space.

Ordering code

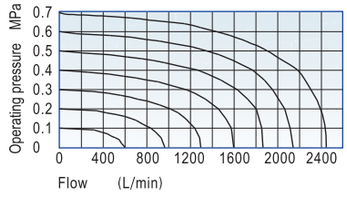
4A 3 10 10 P

- **Model**: 4A: Air Valve(5/2, 5/3 way)
- **Code**: 3: 300 Series
- **Valve type**:
  - 10: Single air control 5/2 way
  - 20: Double air control 5/2 way
  - 30C: Double air control 5/3 way closed center
  - 30E: Double air control 5/3 way exhaust center
  - 30P: Double air control 5/3 way pressure center
- **Port size**: 08: 1/4" / 10: 3/8"
- **Thread type**: P: PT / T: NPT / G: G

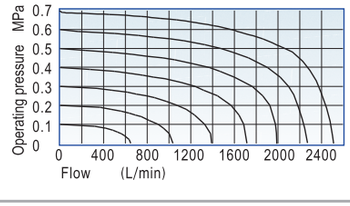
Please refer to 70 for manifold specification and the order way.

Flow chart

Model: 4A310–08



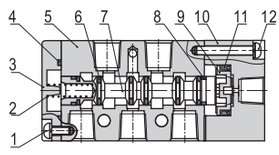
Model: 4A310–10



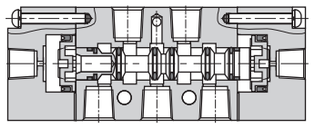
4A300

Inner structure

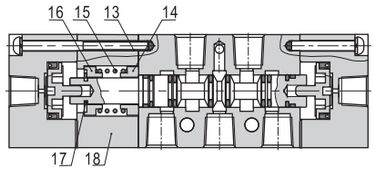
4A310



4A32 0



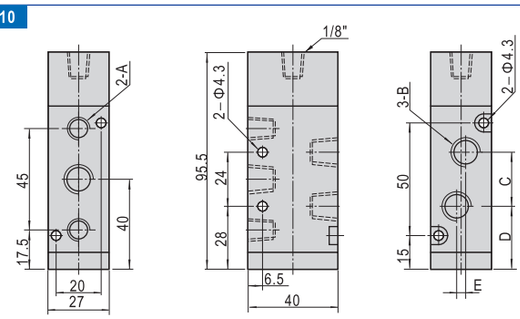
4A330C



No.	Item	No.	Item	No.	Item
1	Screw	7	Spool	13	Screw
2	Spring	8	Wear ring	14	Spring holder
3	Bottom cover	9	Piston	15	Return Spring
4	Bottom cover gasket	10	Pilot body	16	Spring holder
5	Body	11	O-ring	17	E Clip
6	O-ring	12	Screw	18	Side cover

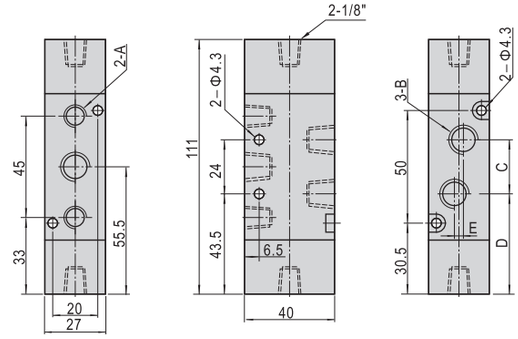
Dimension

4A310



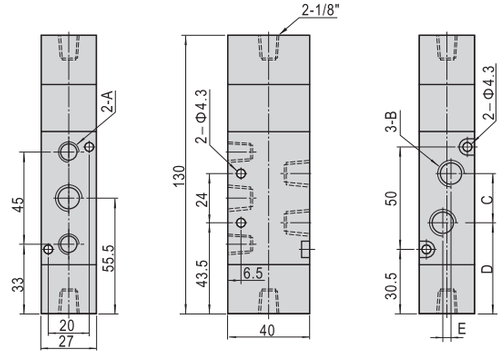
Model\Item	A	B	C	D	E
4A310-08	1/4"	1/4"	22	29	0
4A310-10	1/4"	3/8"	24	28	4

4A320



Model\Item	A	B	C	D	E
4A320-08	1/4"	1/4"	22	44.5	0
4A320-10	1/4"	3/8"	24	43.5	4

4A330



Model\Item	A	B	C	D	E
4A330-08	1/4"	1/4"	22	44.5	0
4A330-10	1/4"	3/8"	24	43.5	4

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

4A400 Series

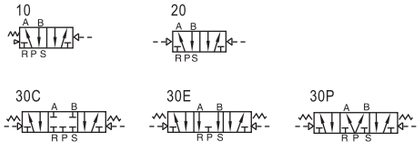
Specification

Model	4A410–15	4A420-15	4A430C-15	4A430E-15	4A430P-15
Fluid	Air(to be filtered by 40 μ m filter element)				
Acting	Exterior control				
Port size ①	In=Out=Exhaust=1/2"				
Orifice size	50.0mm²(Cv=2.79)		30.0mm²(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 (g)	555	685	735		

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 of no-load state.

4A400

Symbol



Product feature

1. Structure in sliding column mode: good tightness and sensitive reaction.
2. Three position air valves have three kinds of central function for your choice.
3. Double air control valves have memory function.
4. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
5. No need to add oil for lubrication.
6. Integrate with the manifold to save installation space.

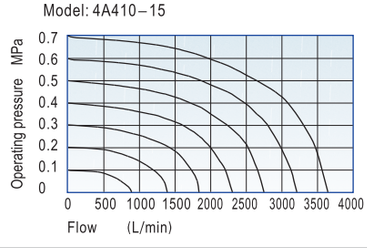
Ordering code

4A 4 10 15 P

- **Model**: 4A: Air Valve(5/2, 5/3 way)
- **Code**: 4: 400 Series
- **Valve type**:
  - 10: Single air control 5/2 way
  - 20: Double air control 5/2 way
  - 30C: Double air control 5/3 way closed center
  - 30E: Double air control 5/3 way exhaust center
  - 30P: Double air control 5/3 way pressure center
- **Port size**: 15: 1/2"
- **Thread type**:
  - P: PT
  - T: NPT
  - G: G

Please refer to 70 for manifold specification and the order way.

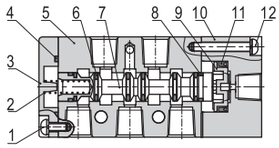
Flow chart



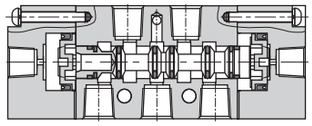
4A400

Inner structure

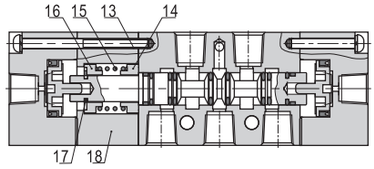
4A410



4A420



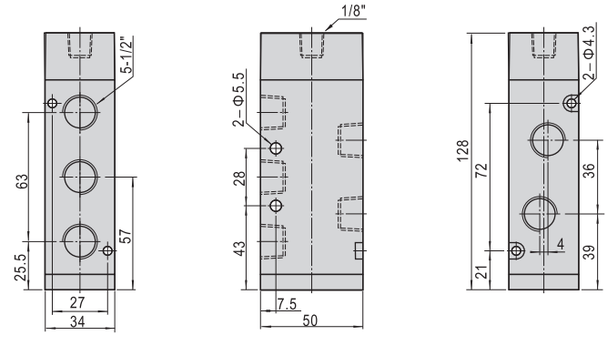
4A430C



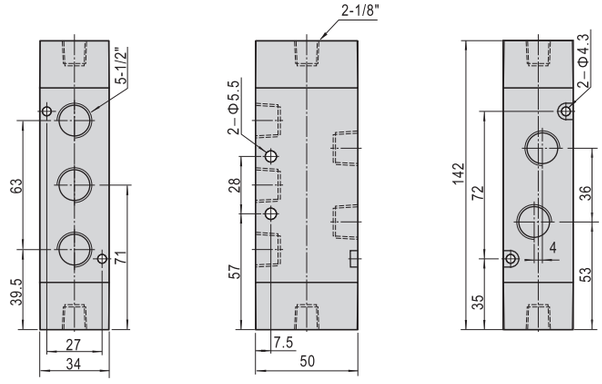
No.	Item	No.	Item	No.	Item
1	Screw	7	Spool	13	Screw
2	Spring	8	Wear ring	14	Spring holder
3	Bottom cover	9	Piston	15	Return Spring
4	Bottom cover gasket	10	Pilot body	16	Spring holder
5	Body	11	O-ring	17	E Clip
6	O-ring	12	Screw	18	Side cover

Dimension

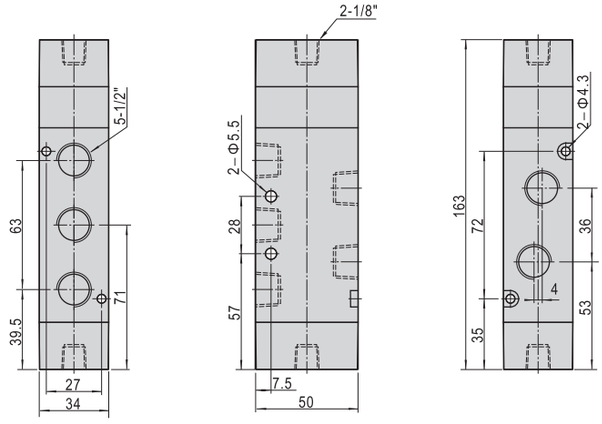
4A410



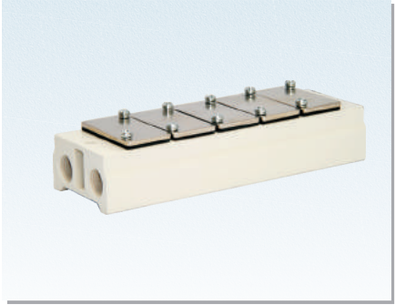
4A420



4A430



Manifold



Specification

Item\Manifold Model	100M	200M	300M
Fluid	Air(to be filtered by 40 μ m filter element)		
Temperature ℃	-20~70		
Adaotable valve's series	3A100 Series	3A200 Series	3A300 Series

Ordering code

Ordering code contains the two parts of the manifold's and the blank plate's.

1 Ordering code for manifold

3V100M 5F P

Model	Number of stations	Thread type
3V100M: 100 Series Manifold	1F: 1 Station	P: PT
3V200M: 200 Series Manifold	2F: 2 Station	T: NPT
3V300M: 300 Series Manifold	.....	G: G
	16F: 16 Station	

2 Ordering code for blank plate

P-3V100M R2

Model	Code
3V100M: 100 Series Manifold	R2: Blank plate for manifold
3V200M: 200 Series Manifold	
3V300M: 300 Series Manifold	

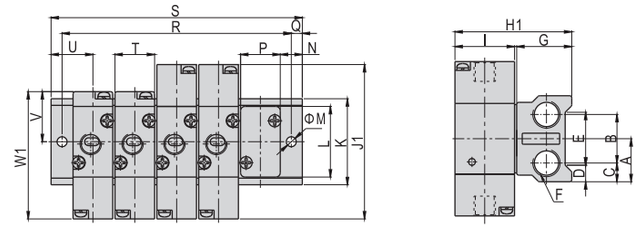
Remark:1. Manifold kits contains manifold, seal and screw.
2. Blank plate kits contains blank plate, and screw.

Product feature

1. It is available to integrate the direction control valves of the same series to form value 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.

Dimensions

With 3A air valve

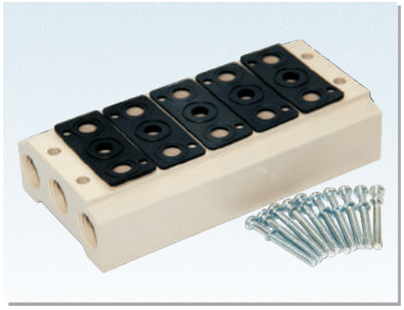


Model\Item	A	B	C	D	E	F	G	H1	I	J1	K	L	M	N	P	Q	T	U	V	W1
3V100M	19.5	22	8.5	7.5	24	1/4"	25	53	27	70	39	32	4.5	10	18	5	18	19	22.7	57.7
3V200M	22.5	25	10	8	29	1/4"	25	61	35	84	45	40	4.5	12	22	6	22	23	27.7	69.7
3V300M	26	28	12	8	36	3/8"	29	70	40	96	52	47	4.5	13.5	27	6	27	27	32.5	80.5

Model\Item	R															
	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

Model\Item	S															
	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

Manifold



Specification

Item\Manifold Model	100M	200M	300M	400M
Fluid	Air(to be filtered by 40 μ m filter element)			
Temperature ℃	-20~70			
Adaotable valve's series	4A100 Series	4A200 Series	4A300 Series	4A400 Series

Ordering code

Ordering code contains the two parts of the manifold's and the blank plate's.

1 Ordering code for manifold

100M 5F P

Model	Thread type
100M: 100 Series Manifold	P: PT
200M: 200 Series Manifold	T: NPT
300M: 300 Series Manifold	G: G
400M: 400 Series Manifold	

① Number of stations

1F: 1 Station
2F: 2 Station
.....
16F: 16 Station

2 Ordering code for blank plate

P–100M R2

Model	Code
100M: 100 Series Manifold	R2: Blank plate for manifold
200M: 200 Series Manifold	
300M: 300 Series Manifold	
400M: 400 Series Manifold	

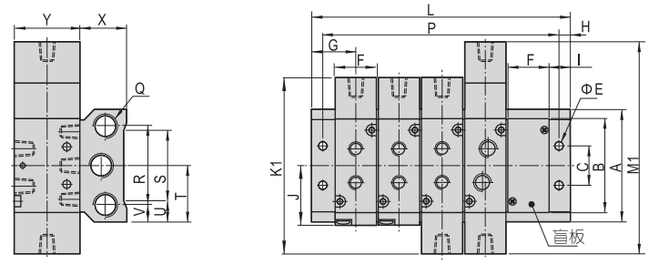
① 100M, 200M series have a maximum of 16 stations ; 300M series have a maximum of 12 stations; 400M series have a maximum of 8 stations.

Product feature

1. It is available to integrate the direction control valves of the same series to form value 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.

Dimension

With 4A air valve



Model\Item	A	B	C	E	F	G	H	I	J	K1	M1	Q	R	S	T	U	V	X	Y
100M□F	58	43.2	20	4.5	18.3	19	5	10	28.2	81	96	1/4"	40	30	29	14	9	25	27
200M□F	61	50.7	21	4.5	22.4	23	6	12	31.7	92	111	1/4"	43	32	30.5	14.5	9	27	35
300M□F	75	64.8	26	4.5	27.3	27	6	13.5	40	111	130	3/8"	53	48	37.5	13.5	11	30	40
400M□F	104	94.5	32	5.5	34.3	31.5	7	14.5	57	142	163	1/2"	68	63	52	18.5	18	38	50

Model\Item	L															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M□F	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323
200M□F	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391
300M□F	54	82	110	138	166	194	222	250	278	306	334	362	-	-	-	-
400M□F	63	98	133	168	203	238	273	308	-	-	-	-	-	-	-	-

Model\Item	P															
	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M□F	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313
200M□F	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379
300M□F	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-
400M□F	49	84	119	154	189	224	259	294	-	-	-	-	-	-	-	-