

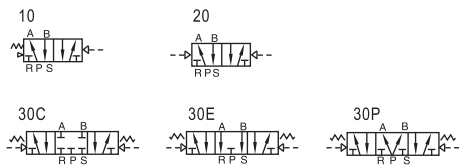
Air valve(5/2, 5/3 way)



4A100 Series



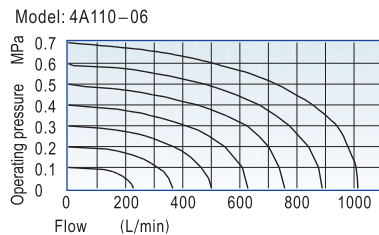
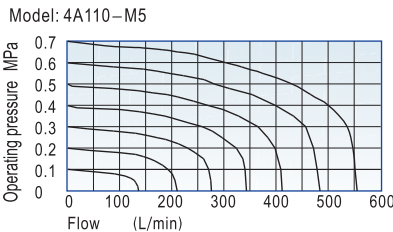
Symbol



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.

Flow chart



Specification

| Model              | 4A110-M5<br>4A120-M5                         | 4A130C-M5<br>4A130E-M5<br>4A130P-M5 | 4A110-06<br>4A120-06             | 4A130C-06<br>4A130E-06<br>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       | 5.5mm <sup>2</sup><br>(Cv=0.31)              | 5.0mm <sup>2</sup><br>(Cv=0.28)     | 12.0mm <sup>2</sup><br>(Cv=0.67) | 9.0mm <sup>2</sup><br>(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 °C     | -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<br>4A120-M5:140                  | 165                                 | 4A110-06:85<br>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.

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  |
|-----------|--------------|
| P: PT     |              |
| 1/8"      | 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.

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

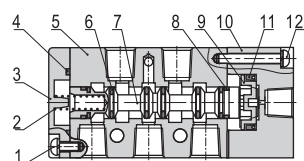
**AIRTAC**

## 4A100 Series

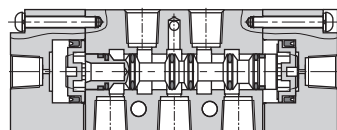


4A100

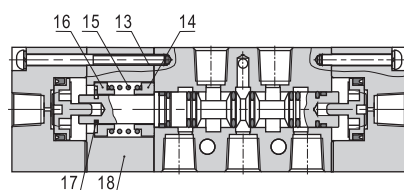
### Inner structure



4A110



4A120

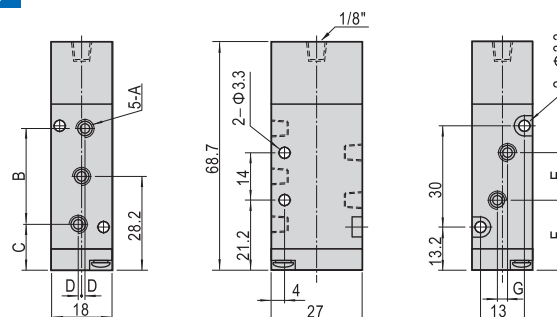


4A130C

| 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    |

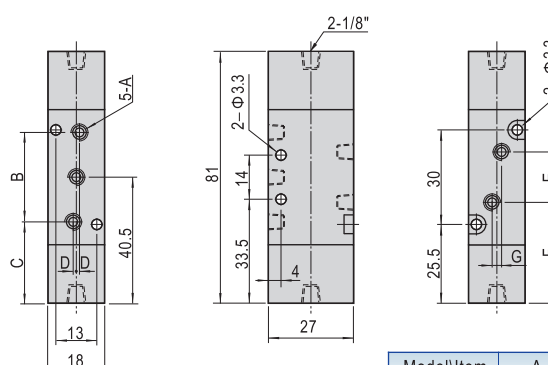
### Dimension

4A110



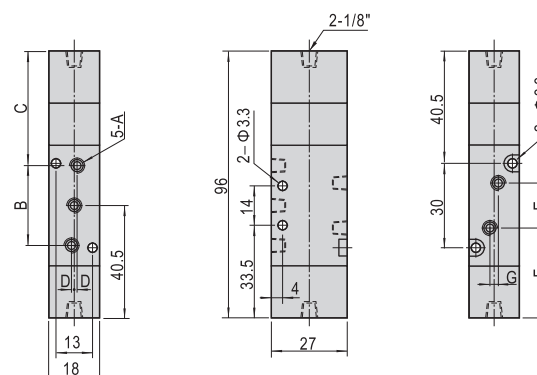
| Model\Item | A      | B  | C    | D | E  | F    | G |
|------------|--------|----|------|---|----|------|---|
| 4A110-M5   | M5x0.8 | 27 | 14.7 | 0 | 14 | 21.2 | 0 |
| 4A110-06   | 1/8"   | 28 | 14.2 | 1 | 16 | 20.2 | 3 |

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 |

