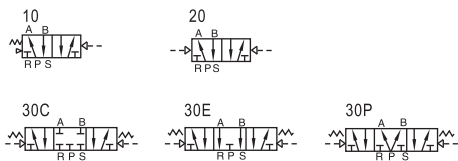


Air valve(5/2, 5/3 way)  
4A300 Series

AIRTAC



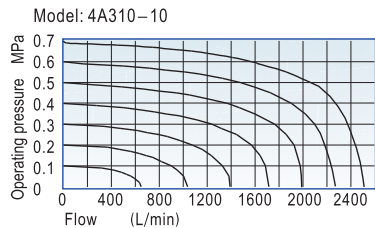
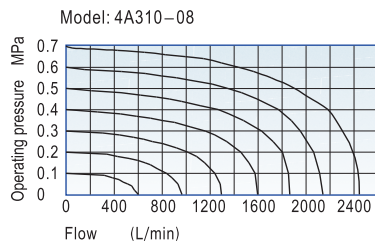
Symbol



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

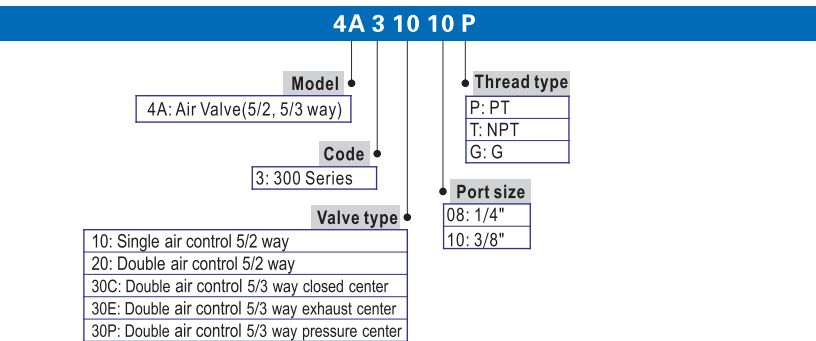


Specification

| Model              | 4A310-08<br>4A320-08                         | 4A330C-08<br>4A330E-08<br>4A330P-08 | 4A310-10<br>4A320-10             | 4A330C-10<br>4A330E-10<br>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       | 25.0mm <sup>2</sup><br>(Cv=1.40)             | 18.0mm <sup>2</sup><br>(Cv=1.00)    | 30.0mm <sup>2</sup><br>(Cv=1.68) | 18.0mm <sup>2</sup><br>(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<br>4A320-08:365                 | 505                                 | 4A310-10:275<br>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.

Ordering code



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

Air valve(5/2, 5/3 way)  
4A300 Series



Inner structure

4A310

4A320

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 |

