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

4V300 Series

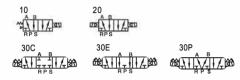








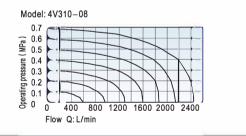
Symbol

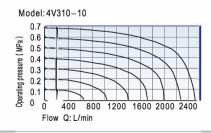


Product feature

- 1. Pilot-oriented mode:Internal pilot or external pilot.
- 2. Structure in sliding column mode: good tightness and sensitive reaction.
- 3. Three position solenoid valves have three kinds of central function for your choice.
- 4. Double control solenoid valves have memory function.
- 5. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 6. No need to add oil for lubrication.
- 7. It is available to form integrated valve group with the base to save installation space.
- Affiliated manual devices are equipped to facilitate installation and debugging.
- 9. Several standard voltage grades are optional.

Flow chart





Specification

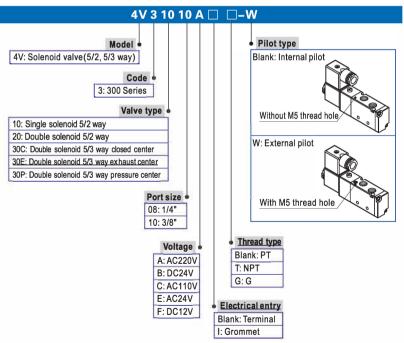
| Model | 4V310-08 4V320-08 | 4V330C-08 4V330E-08 4V330P-08 | 4V310-10 4V320-10 | 4V330C-10 4V330E-10 4V330P-10 | | | |
|--------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|--|--|--|
| Fluid | Air(to be filtered by 40 μ m filter element) | | | | | | |
| Acting | Internal pilot or external pilot | | | | | | |
| Port size ① | In=Out=Ex | rhaust=1/4" | In=Out=3/8" Exhaust=1/4" | | | | |
| Orifice size | 25.0mm² (Cv=1.40) | | | 18.0mm ² (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 °C | -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 | 4V310-08:310g 4V320-08:400g | 450g | 4V310-10:310g 4V320-10:400g 450g | | | | |

- 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.

Coil specification

| Item | Specitification | | |
|----------------------------|-------------------------------------|--|--|
| Standard voltage | AC220V, AC110V, AC24V, DC24V, DC12V | | |
| Scope of voltage | AC: ± 15% DC: ± 10% | | |
| Power consumption | AC:3.5VA DC:3.0W | | |
| Protection | IP65(DIN40050) | | |
| Temperature classification | ure classification B Class | | |
| Electrical entry | Terminal, Grommet | | |
| Activating time | 0.05 sec and below | | |

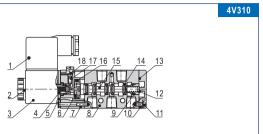
Ordering code

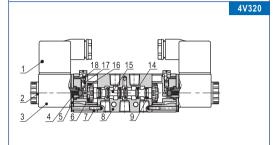


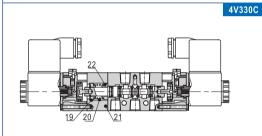
Please refer to 37 for manifold specification and the order way.

4V300 Series

Inner structure

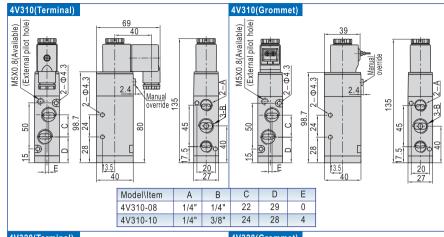


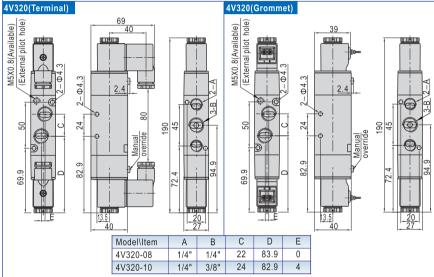


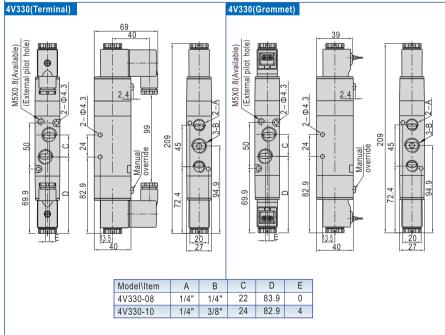


| No. | Item | No. | Item | N0. | Item |
|-----|-------------|-----|---------------------|-----|-----------------|
| 1 | Connector | 9 | Wear ring | 17 | Override spring |
| 2 | Coil net | 10 | Bottom cover | 18 | Manual override |
| 3 | Coil | 11 | Fixed screw | 19 | Spring holder |
| 4 | Armature | 12 | Spool spring | 20 | Return spring |
| 5 | Fixed plate | 13 | Bottom cover gasket | 21 | Side cover |
| 6 | Piston | 14 | Spool O-ring | 22 | Spring holder |
| 7 | Pilot kit | 15 | Spool | | |
| 8 | Body | 16 | Piston O-ring | | |

Dimensions









4V300