

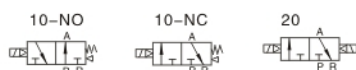
Solenoid valve (3/2 way)

3V300 Series

AIRTAC



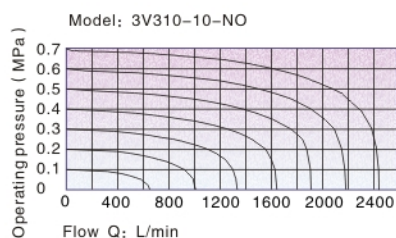
Symbol



Product feature

- 1、Pilot-oriented mode: internally piloted;
- 2、Structure in sliding column mode: good tightness and sensitive reaction;
- 3、Double control solenoid 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、Affiliated manual devices are equipped to facilitate installation and debugging;
- 7、Several standard voltage grades are optional;
- 8、Integrate with the manifold to save installation space.

Flow chart



Specification

Model	3V310-08	3V320-08	3V310-10	3V320-10
Fluid	Air(to be filtered by 40um filter element)			
Acting	Internal piloted			
Port size ①	In=Out=1/4"		In=Out=3/8"	
Orifice size	25.0mm ² (Cv=1.39)		30.0mm ² (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			

① PT thread、NPT thread and G thread are available;

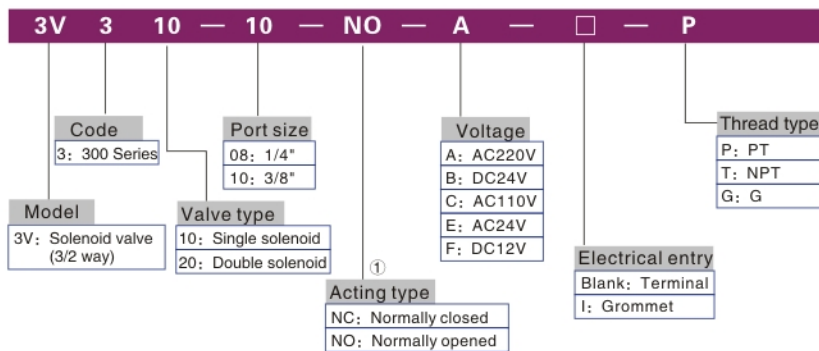
② It can not stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

Coil specification

Item	Specification
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	B Class
Electrical entry	Terminal、Grommet
Activating time	0.05 sec and below
Max. frequency ①	5 cycle/sec

① The maximum actuation frequency is in the no-load state.

Ordering code



①Remark: 2 position double control solenoid valves have no differences between normally opened and normally closed state, thus this code is blank.
Please refer to PI-33 for manifold specification and the order way.

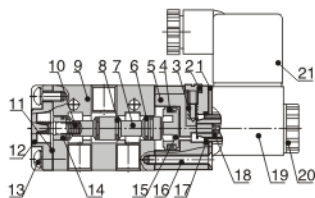


Solenoid valve (3/2 way)

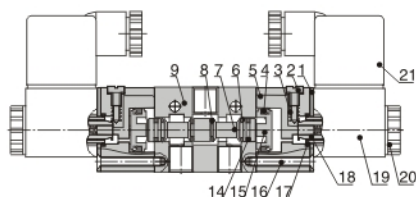
3V300 Series

Inner structure

3V310



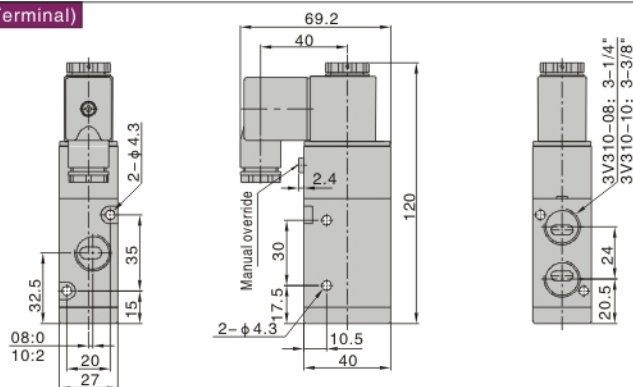
3V320



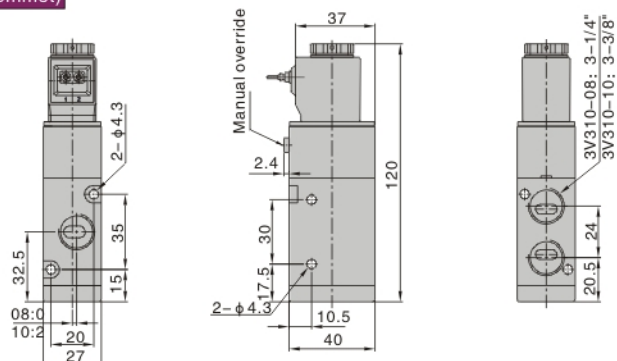
NO.	Item	NO.	Item	NO.	Item
1	Fixed plate	8	O-ring	15	Piston
2	Manual override	9	Body	16	Pilot screw
3	Override spring	10	Spool spring	17	O-ring
4	Piston O-ring	11	Bottom cover gasket	18	Armature
5	Pilot body	12	Bottom cover	19	Coil
6	Spool packing	13	Screw	20	Coil nut
7	Spool	14	Wear ring	21	Connector

Dimensions

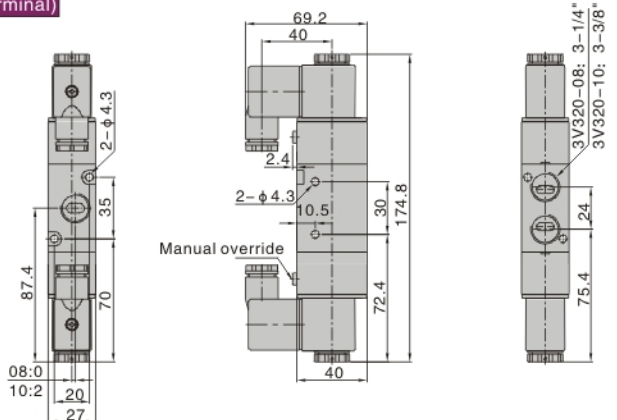
3V310(Terminal)



3V310(Grommet)



3V320(Terminal)



3V320(Grommet)

