#### 3V100 Series





#### Symbol



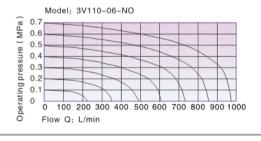




#### Product feature

- 1. Pilot-oriented mode:internally piloted
- Structure in sliding column mode: good tightness and sensitive reaction;
- 3. Double control solenoid valves have memory function;
- 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;
- 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	3V110-M5	3V120-M5	3V110-06	3V120-06		
Fluid	Air( to be filtered by 40um filter element)					
Acting	Internally piloted					
Port size ①	M5		1/8"			
Orifice size	5.5mm²(	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				

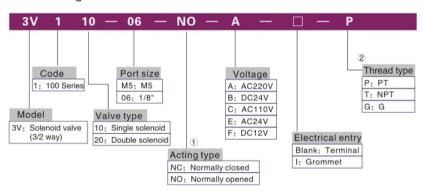
- 1 PT thread, NPT thread and G thread are available;
- 2 It can not stop in the midway of lubricating. Lubricants like ISO VG32 or equivalent are recommended.

### Coil specification

Item	Specification			
Standard voltage	AC220V、AC110V、AC24V、DC24V、DC12V			
Scope of voltage	AC: ±15% DC: ±10%			
Power consumption	AC; 2.5VA DC ; 2.5W			
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.

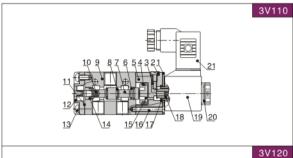
2When the thread is M5 type, the code is blank

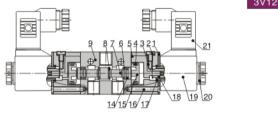
Please refer to PI-33 for manifold specification and the order way.

3V100 Series

# **AITTAC**

## Inner structure





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

