

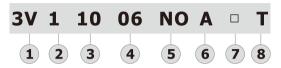
3V100 Series







Ordering code



①Model

3V: Solenoid valve (3/2 way)

©Standard voltage

A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V ②Code 1: 100 Series

3 Valve type10: Single solenoid20: Double solenoid

②Electrical entry

Blank: Terminal I: Flying leads[Note]

[Note]: The wire length is 0.5m.

NC: Normally closed NO: Normally opened

®Thread type T: NPT

M5: M5

06: 1/8"

Please refer to P51 for manifold specification and the order way.

Specification

Model	3V110-M5	3V120-M5	3V110-06	3V120-06				
Fluid	Ai	Air(to be filtered by 40µm filter element)						
Acting		Intern	al pilot					
Port size [Note1]	M	15	1/	8"				
Orifice size [Note3]	3V110-06,3V120-06:10.2mm ² (Cv=0.6)							
Valve type	3 port 2 position							
Lubrication [Note2]	Not required							
Operating pressure		21~114psi(0.15~0.8MPa)						
Proof pressure	175psi(1.2MPa)							
Temperature	-20~70°C							
Material of body		Aluminum alloy						

[Note 1] NPT thread is available.

[Note 2] Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.

[Note 3] Equivalent orifice S and Cv are all calculated from the flow rate data.

Product feature

- 1. Structure in sliding column mode: good tightness and sensitive reaction.
- 2. Double control solenoid valves have memory function.
- 3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 4. No need to add oil for lubrication.
- 5. Affiliated manual devices are equipped to facilitate installation and debugging.
- 6. Several standard voltage grades are optional.
- 7. Integrate with the manifold to save installation space.



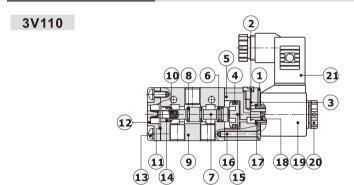
3V100 Series

Coil specification

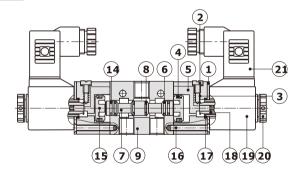
Item		Sp	ecificati	ion	
Standard voltage	AC220V	AC110V	AC24V	DC24V	DC12V
Scope of voltage	AC: ±15% DC: ±10%				
Power consumption	3.5VA	3.5VA	4.0VA	2.8W	2.5W
Protection	IP65(DIN40050)				
Temperature classification	B Class				
Electrical entry	Terminal, Flying leads				
Activating time	0.05 sec and below				
Max. frequency [Note 1]	5 cycle/sec				

[Note1] The maximum actuation frequency is in the no-load state.

Inner structure

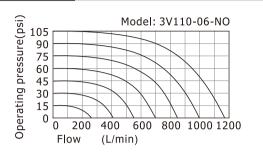


3V120



No.	Item	No.	Item	No.	Item
1	Fixed plate	8	O-ring	15	Piston
2	Manual override	9	9 Body		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

Flow chart



The data in flow rate chart are obtained from AirTAC lab.



[Unit: mm]

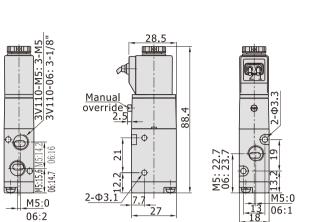
3V100 Series

Dimensions

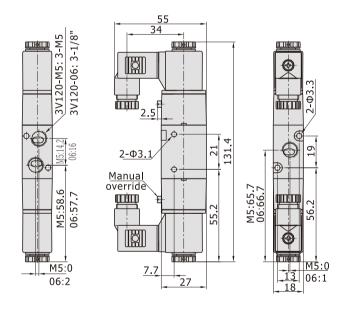
3V110(Terminal)

555 34 Wanual Wanual Washington override 2.5 W5:0 06:2 W5:0 06:2 27:2

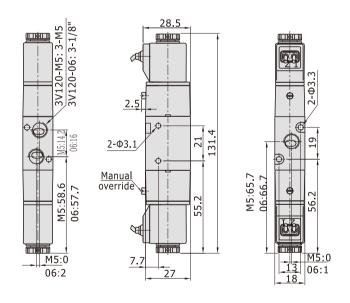
3V110(Flying leads)



3V120(Terminal)



3V120(Flying leads)



3V200 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. 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.

Specification

Model	3V210-06	3V220-06	3V210-08	3V220-08			
Fluid	Air(to be filtered by 40 μ m filter element)						
Acting		Internal pilot or external pilot					
Port size [Note 1]	In=Out=1/8" In=Out=1/4"						
Orifice size(Cv)[Note3]	3V210-08,3V220-08:17.0mm ² (Cv=1.0)						
Valve type	3 port 2 position						
Lubrication [Note 2]	Not required						
Operating pressure	0.15~0.8MPa(21~114psi)						
Proof pressure	1.2MPa(175psi)						
Temperature	-20~70℃						
Material of body	Aluminum alloy						

[Note 1] G thread is available.

[Note 2] Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.

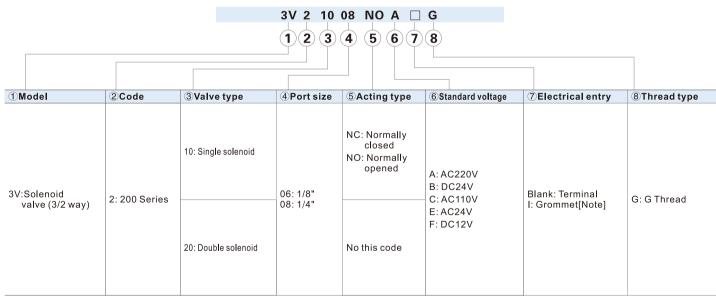
[Note3] Equivalent orifice S and Cv are all calculated from the flow rate data.

Coil specification

Item	Specification					
Standard voltage	AC220V	AC110V	AC24V	DC24V	DC12V	
Scope of voltage	AC: ±15% DC: ±10%					
Power consumption	4.5VA 4.5VA 5.0VA 3.0W 2.5W					
Protection	IP65(DIN40050)					
Temperature classification	B Class					
Electrical entry	Terminal, Grommet					
Activating time	0.05 sec and below					
Max. frequency [Note1]			5 cycle/sec			

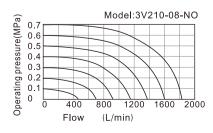
[Note 1] The maximum actuation frequency is in the no-load state.

Ordering code



[Note] The wire length is 0.5m. Please refer to P88 for manifold specification and the order way.

Flow chart



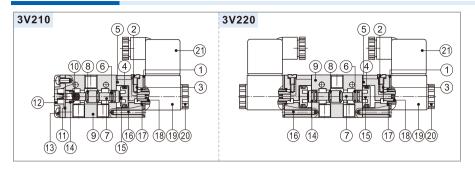
The data in flow rate chart are obtained from AirTAC lab.





3V200 Series

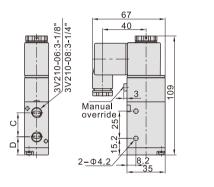
Inner structure

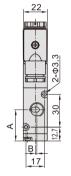


No.	Item	No.	Item	No.	Item
1	Fixed plate	8	O-ring	15	Piston
2	Manual override	9	Body	16	Pilot screw
3	Override spring	10	Spool spring	17	O-ring
4	Piston O-ring	11	Bottom cover gasket	18	Armature
5	Pilot body	12	Bottom cover	19	Coil
6	Spool packing	13	Screw	20	Coil nut
7	Spool	14	Wear ring	21	Connector

Dimensions

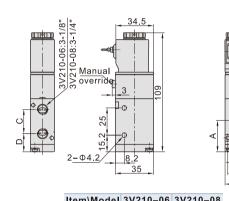
3V210(Terminal)





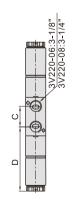
Item\Model	3V210-06	3V210-08
Α	27.7	28.7
В	0	1.5
С	22	22.5
D	16.7	16.5

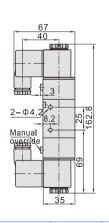
3V210(Grommet)

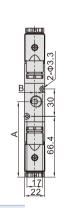


item\modei	3V21U-U6	3V21U-U8
Α	27.7	28.7
В	0	1.5
С	22	22.5
D	16.7	16.5

3V220(Terminal)

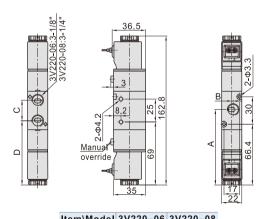






Item\Model	3V220-06	3V220-08
Α	81.4	82.4
В	0	1.5
С	22	22.5
D	70.4	70.2

3V220(Grommet)



Item\Model	3V220-06	3V220-08
Α	81.4	82.4
В	0	1.5
С	22	22.5
D	70.4	70.2



3V300 Series







Ordering code



1) Model

3V: Solenoid valve (3/2 way)

©Standard voltage

A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V ②Code 3: 300 Series

3 Valve type10: Single solenoid20: Double solenoid

②Electrical entry

Blank: Terminal
I: Flying leads[Note]

[Note]: The wire length is 0.5m.

NC: Normally closed NO: Normally opened

®Thread type T: NPT

10: 3/8"

Please refer to P51 for manifold specification and the order way.

Specification

Model	3V310-08	3V320-08	3V310-10	3V320-10				
Fluid	Air	Air(to be filtered by 40µm filter element)						
Acting		Intern	al pilot					
Port size [Note1]	In=Ou	In=Out=1/4"						
Orifice size [Note3]	3V310-10,3V320-10:28.0mm ² (Cv=1.65)							
Valve type	3 port 2 position							
Lubrication [Note2]	Not required							
Operating pressure	21~114psi(0.15~0.8MPa)							
Proof pressure	175psi(1.2MPa)							
Temperature	-20~70°C							
Material of body		Aluminu	ım alloy					

[Note 1] NPT thread is available.

[Note 2] Once lubricated air is used, continue with same medium to optimise valve life span. Lubricants like ISO VG32 or equivalent are recommended.

[Note 3] Equivalent orifice S and Cv are all calculated from the flow rate data.

Product feature

- 1. Structure in sliding column mode: good tightness and sensitive reaction.
- 2. Double control solenoid valves have memory function.
- 3. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life.
- 4. No need to add oil for lubrication.
- 5. Affiliated manual devices are equipped to facilitate installation and debugging.
- 6. Several standard voltage grades are optional.
- 7. Integrate with the manifold to save installation space.



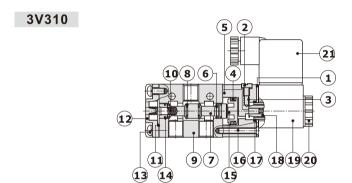
3V300 Series

Coil specification

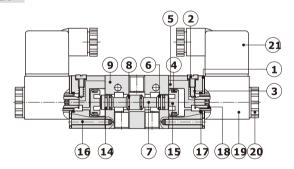
Item		Sp	ecificati	ion	
Standard voltage	AC220V	AC110V	AC24V	DC24V	DC12V
Scope of voltage		AC: ±15% DC: ±10%			
Power consumption	4.5VA	4.5VA	5.0VA	3.0W	2.5W
Protection	IP65(DIN40050)				
Temperature classification	B Class				
Electrical entry	Terminal, Flying leads				
Activating time	0.05 sec and below				
Max. frequency [Note 1]	5 cycle/sec				

[Note1] The maximum actuation frequency is in the no-load state.

Inner structure

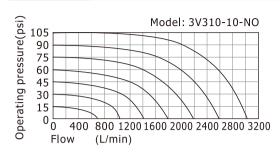


3V320



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

Flow chart



The data in flow rate chart are obtained from AirTAC lab.

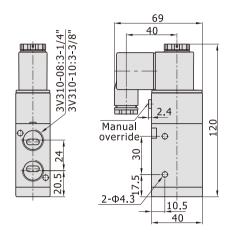


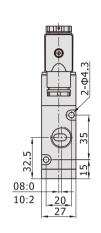
[Unit: mm]

3V300 Series

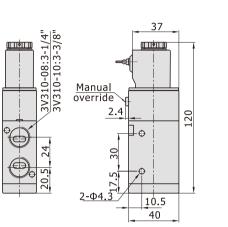
Dimensions

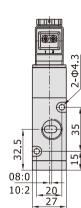
3V310(Terminal)



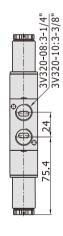


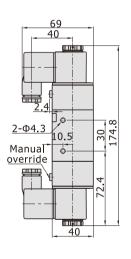
3V310(Flying leads)

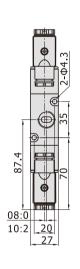




3V320(Terminal)







3V320(Flying leads)

