



Standard Specification

Model	3V110-M5	3V120-M5	3V110-06	3V120-06
Working medium	Air (filtered by a 40um or higher filter)			
Action mode	Pilot			
*Pipe diameter	M5		G1/8	
Effective cross-sectional area	5.5mm ² (Cv=0.31)		12.0mm ² (Cv=0.67)	
Number of positions	Three mouths and two bits			
**Lubrication	Not required			
Use pressure range	0.15-0.8MPa(21~114psi)			
Guaranteed pressure resistance	1.5Mpa			
Operating temperature	-20-70			
Body material	Aluminum alloy			

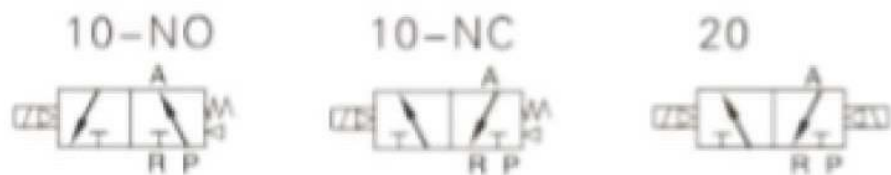
"PT, NPT are available according to the tube tooth type.
*If there is oil lubrication, it cannot be stopped in the middle, and the recommended lubricant is ISOVG32 or the same level of oil.

Electrical performance parameters

Item	Specific parameters
Standard Voltage	AC220V、AC110V、AC24V、DC24V、DC12V
Operating voltage range	AC:±15% DC:±10%
Power consumption	AC:3VA DC: 3W
Protection level	IP65(DIN40050)
Heat resistance class	Class B
Electrical type	DIN socket type, outlet type
Excitation time	Less than 0.05 seconds
Maximum operation frequency	5 times/sec

"The highest operating frequency is the no-load condition.

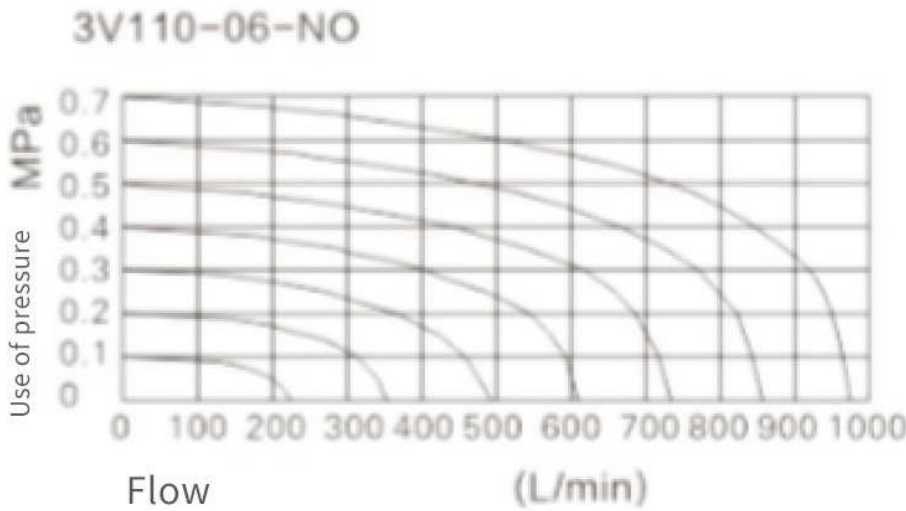
Symbols



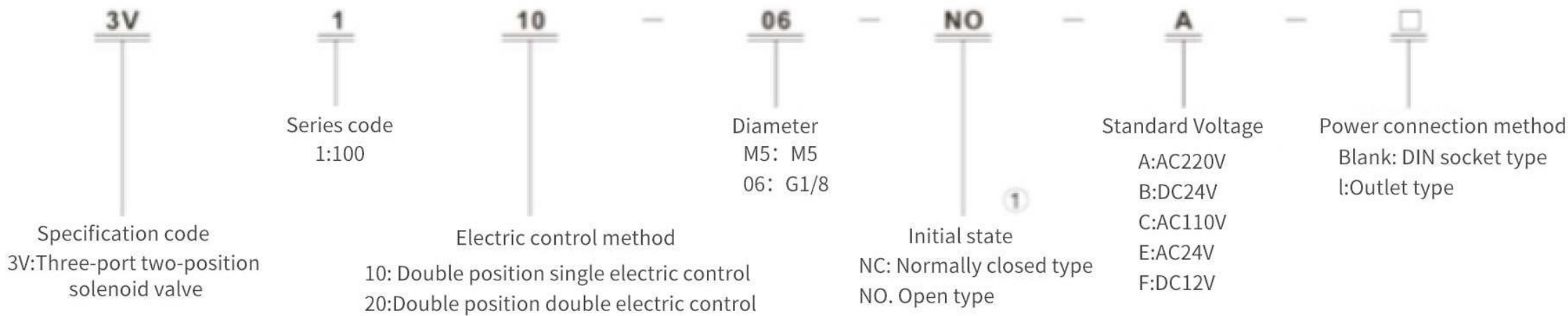
Product Features

- 1. Pilot method: external and internal optional.
- 2. Sliding column structure, good sealing, responsive.
- 3. Double-headed solenoid valve with memory function.
- 4. Bore with special processing technology, low friction resistance, low starting air pressure, long service life.
- 5. No need for oil lubrication.
- 6. With manual device, easy to install and debug.
- 7. A variety of standard voltage levels are available for selection.
- 8. Can be integrated with the base valve group, saving installation space.

Flow Characteristics



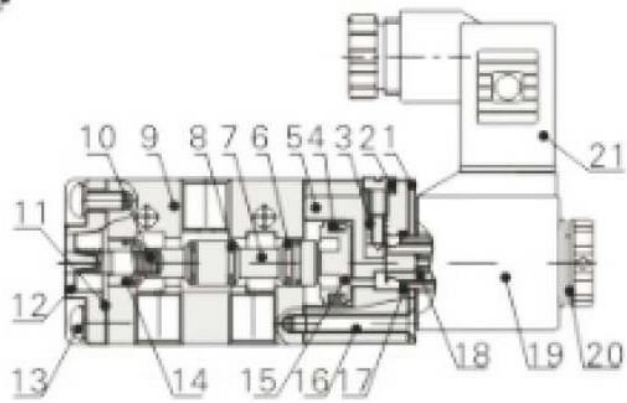
Model indication method



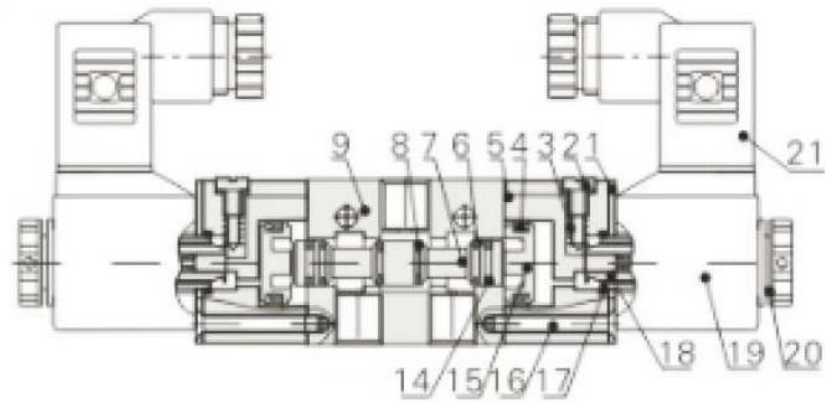
1 Note: Double position double electric control type is not normally open, normally closed, so this code is blank.

Internal structure

3V110



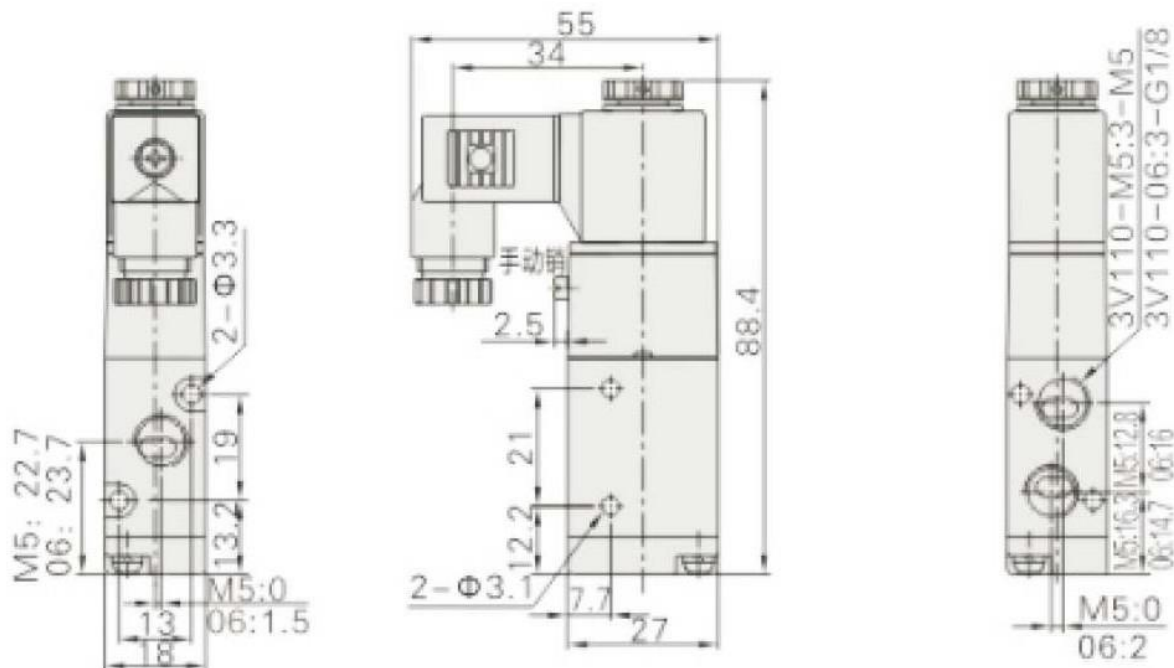
3V120



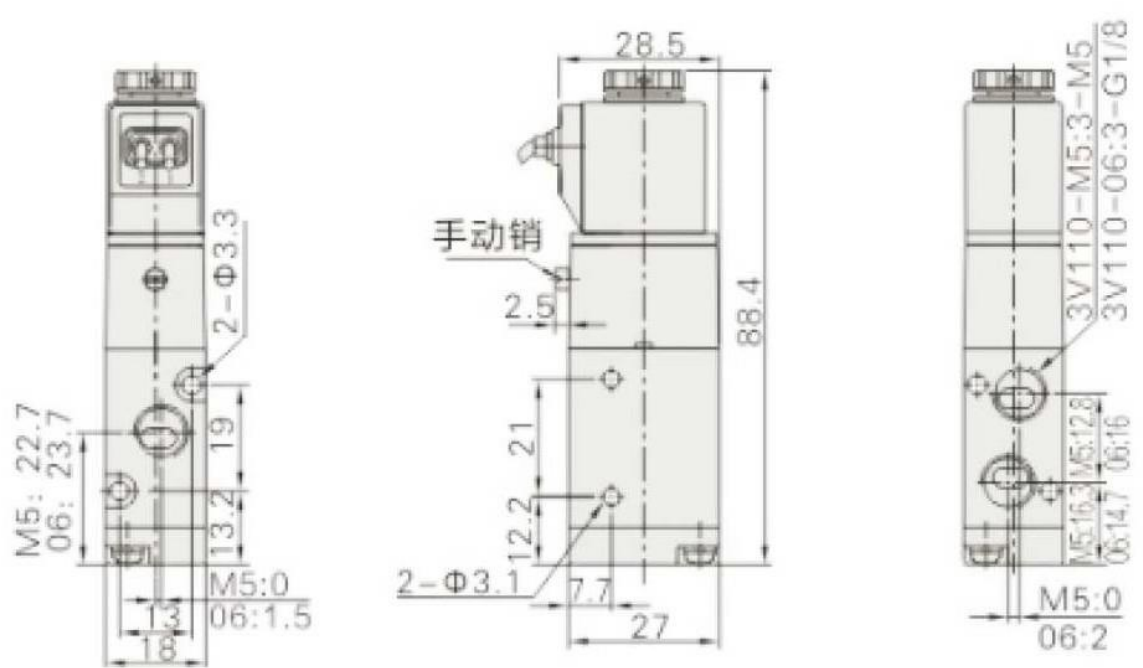
Number	Name	Number	Name	Number	Name
1	Fixed iron piece	8	O-order	15	Piston
2	Manual pin	9	Body	16	Countersunk head screws
3	Spring	10	Spring	17	O-ring
4	Shaped O-ring	11	Check gasket	18	movable iron
5	Guide body	12	Bottom cover	19	Coil
6	Shaped O-ring	13	Round head screws	20	Fixing nut
7	Shaft core	14	Abrasion Resistant Ring	21	Terminal

Dimensional drawing(mm)

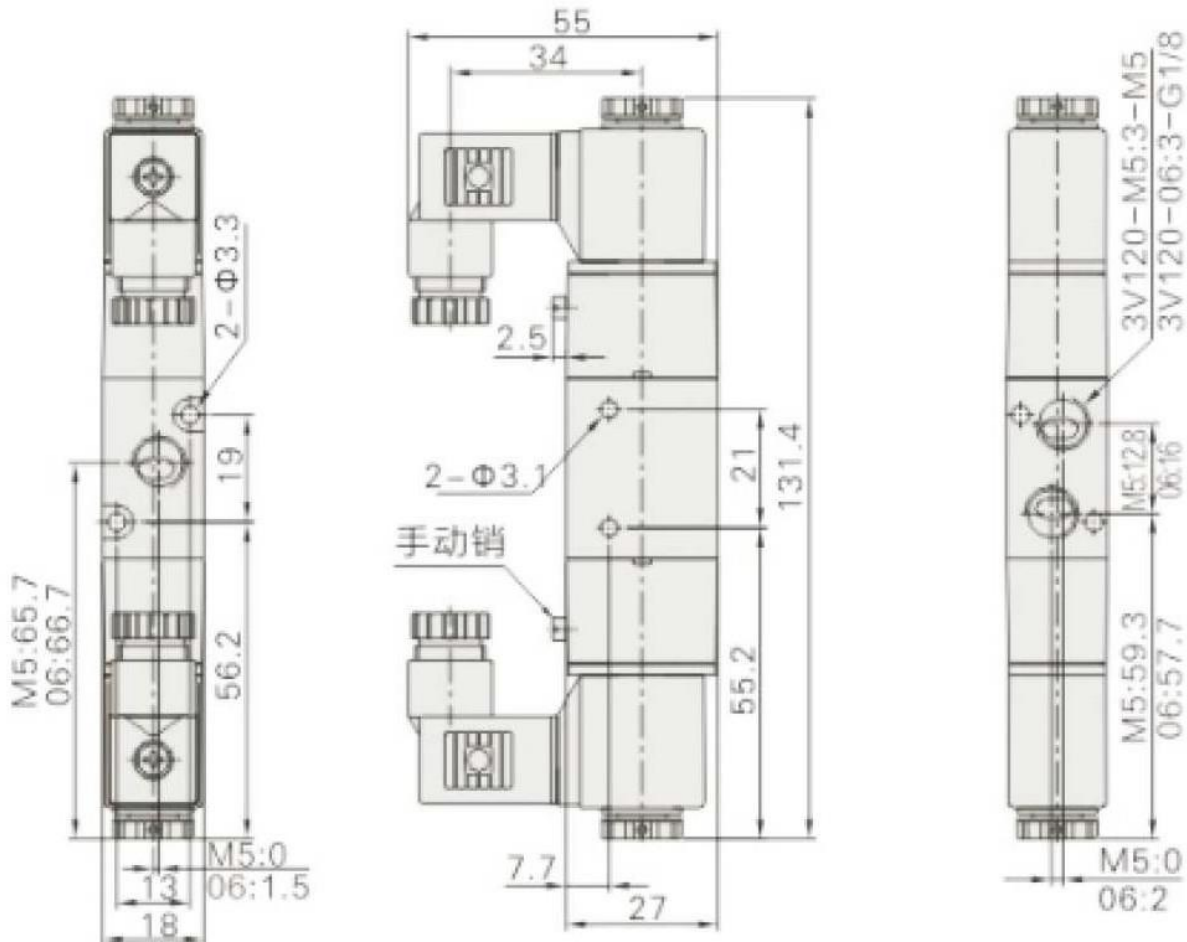
3V110DIN socket type



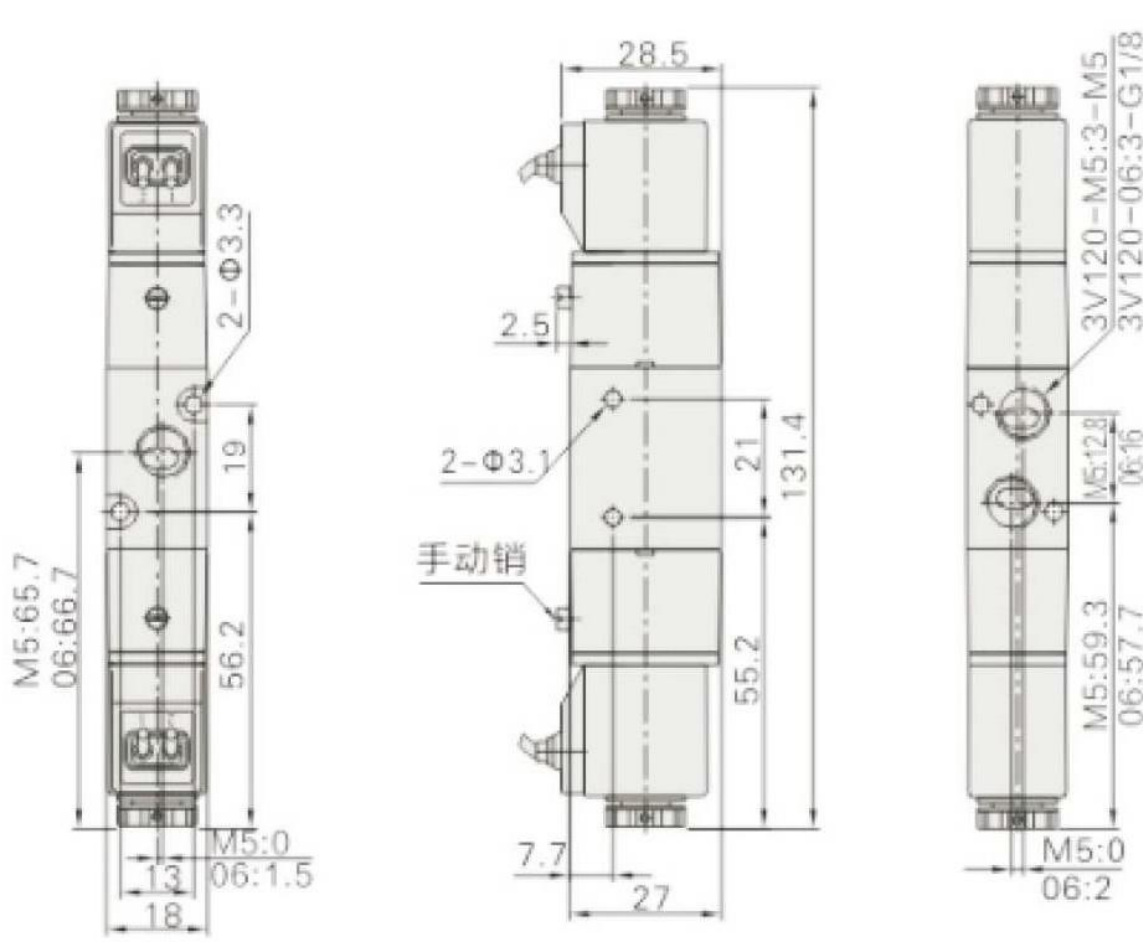
3V110DIN outlet type



3V120DIN socket type



3V120DIN outlet type





Standard Specification

Model	3V210-06	3V220-06	3V210-08	3V220-08
Working medium	Air (filtered by a 40um or higher filter)			
Action mode	Pilot			
*Pipe diameter	M5		G1/8	
Effective cross-sectional area	14.0mm ² (Cv=0.78)		16.0mm ² (Cv=0.89)	
Number of positions	Three mouths and two bits			
**Lubrication	Not required			
Use pressure range	0.15-0.8MPa(21~114psi)			
Guaranteed pressure resistance	1.5Mpa(215psi)			
Operating temperature	-20-70			
Body material	Aluminum alloy			

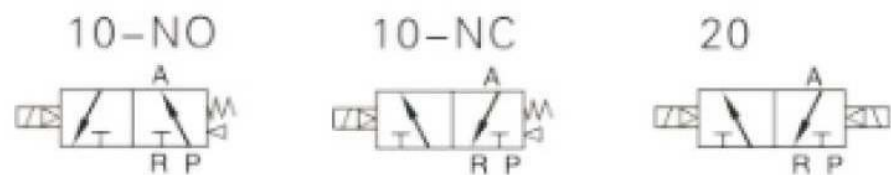
"Takeover tooth type has PT, NPT available;
* If there is oil lubrication the middle must not stop, the recommended lubricant is ISOVG32 or the same level with oil

Electrical performance parameters

Model	3V210-06	3V220-06	3V210-08	3V220-08
Working medium	Air (filtered by a 40um or higher filter)			
Action mode	Pilot			
*Pipe diameter	M5		G1/8	
Effective cross-sectional area	14.0mm ² (Cv=0.78)		16.0mm ² (Cv=0.89)	
Number of positions	Three mouths and two bits			
**Lubrication	Not required			
Use pressure range	0.15-0.8MPa(21~114psi)			
Guaranteed pressure resistance	1.5Mpa(215psi)			
Operating temperature	-20-70			
Body material	Aluminum alloy			

* The maximum operating frequency is the no-load condition.

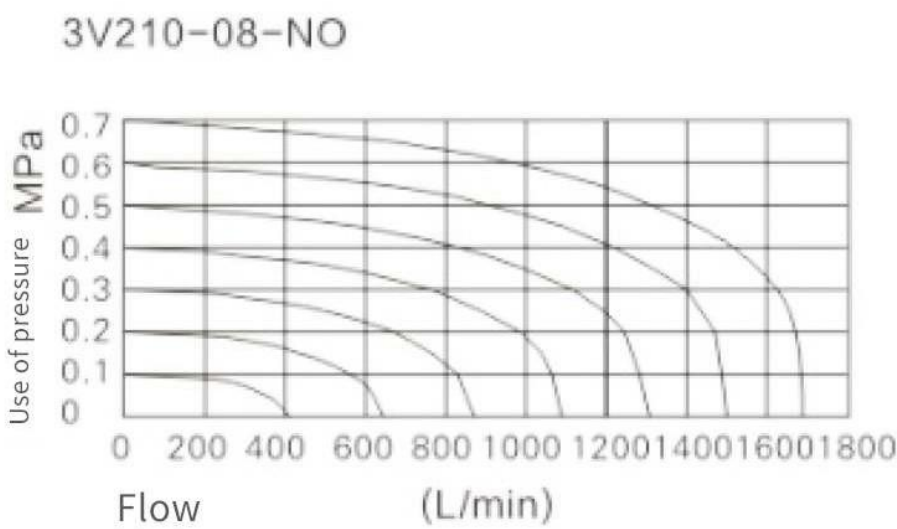
Symbols



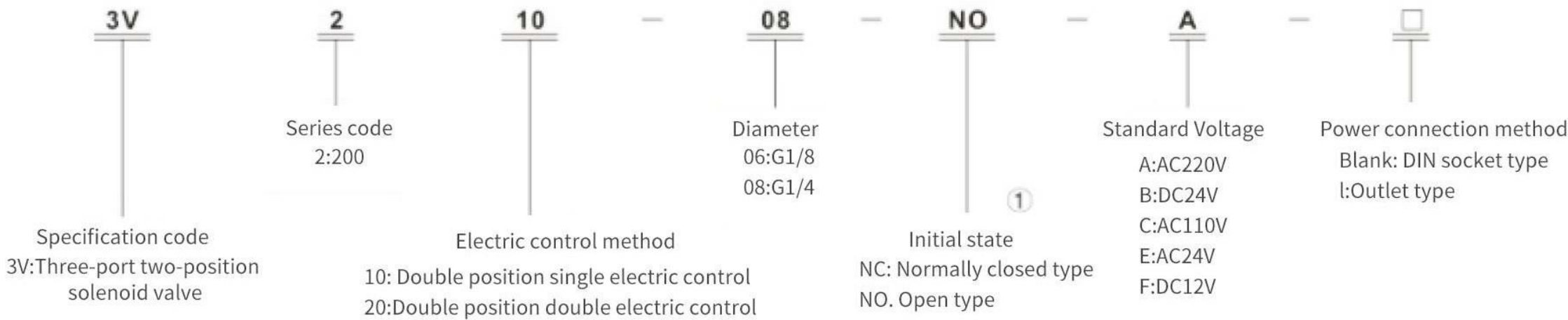
Product Features

1. Pilot method: external and internal optional.
2. Sliding column structure, good sealing, responsive.
3. Double-headed solenoid valve with memory function.
4. Bore with special processing technology, low friction resistance, low starting air pressure, long service life.
5. No need for oil lubrication.
6. With manual device, easy to install and debug
7. A variety of standard voltage levels are available for selection.
8. Can be integrated with the base valve group, saving installation space.1. Direct-acting normally closed type two-port two-position solenoid valve, rapid and sensitive direction change.
9. Lightweight and compact structure.
10. The valve body material is brass, the solenoid coil heat-resistant grade B, the seal material is fluorine rubber (VITON), suitable for a variety of working media.

Flow Characteristics



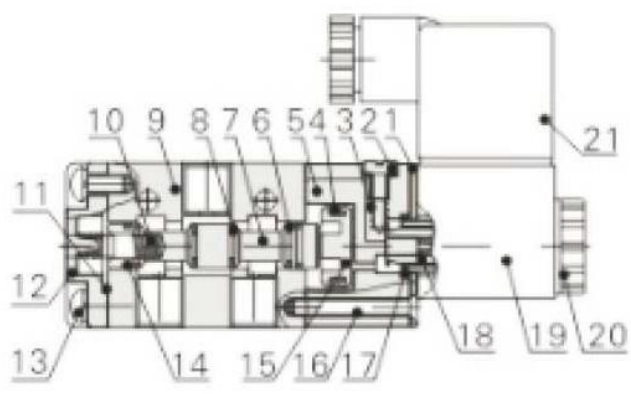
Model number indication method



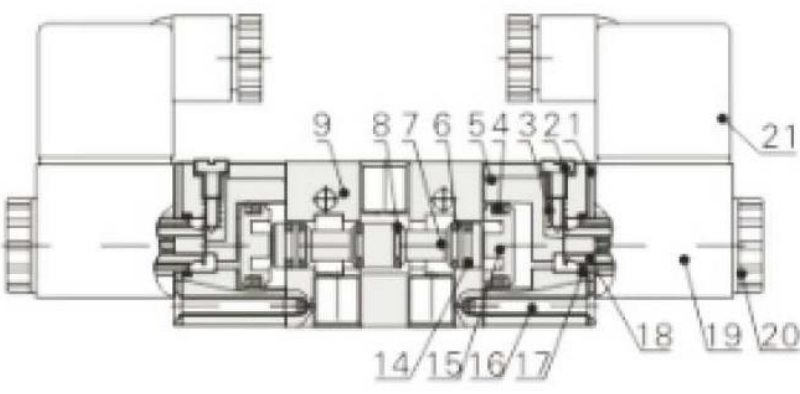
1 Note: Double position double electric control type is not normally open, normally closed, so this code is blank.

Internal structure

3V210

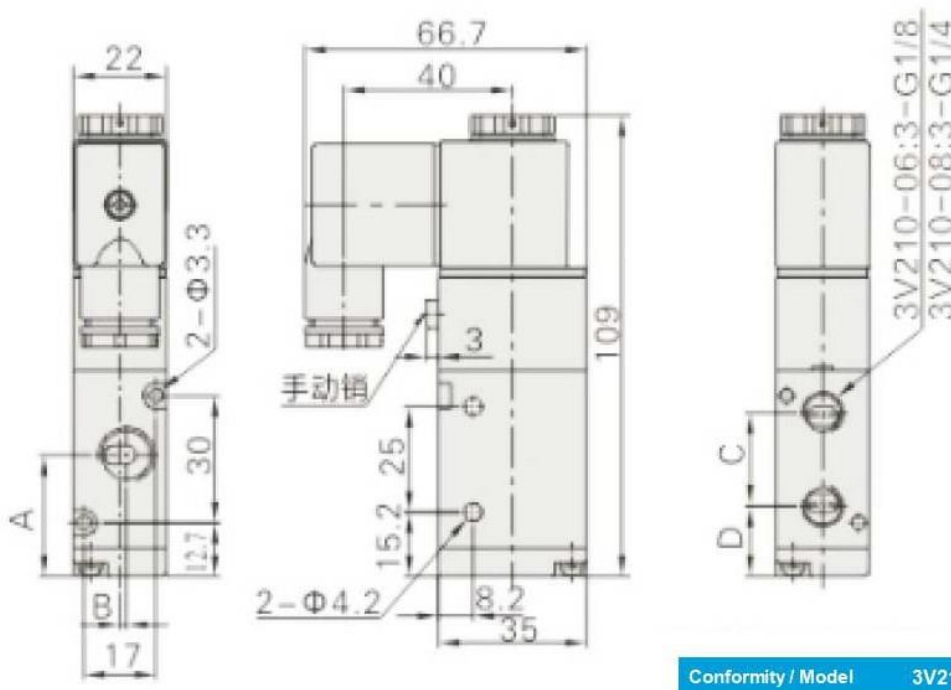


3V220



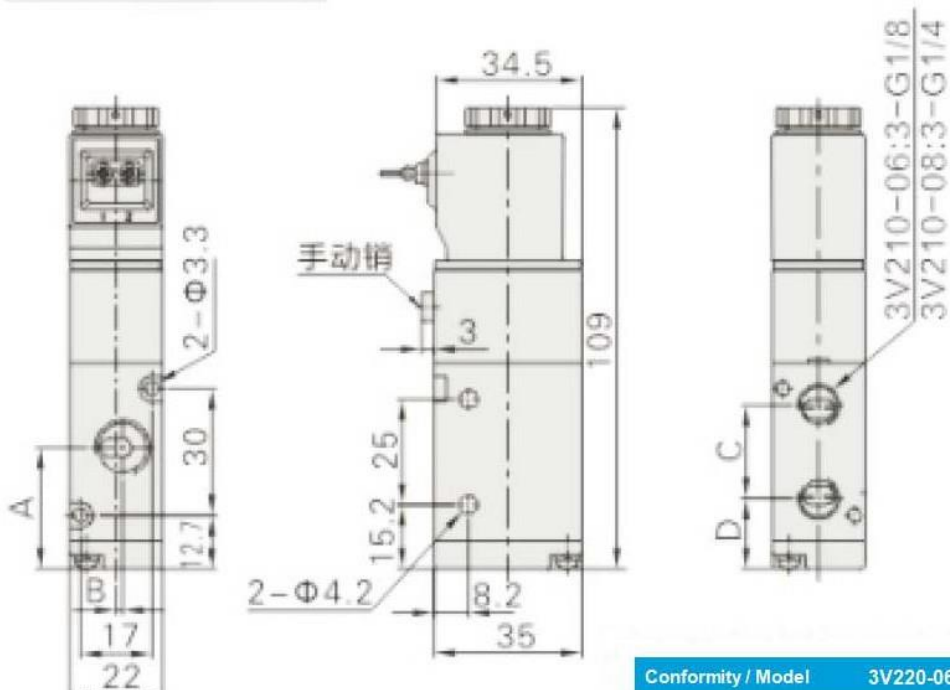
Dimensional drawing(mm)

3V210DIN socket type



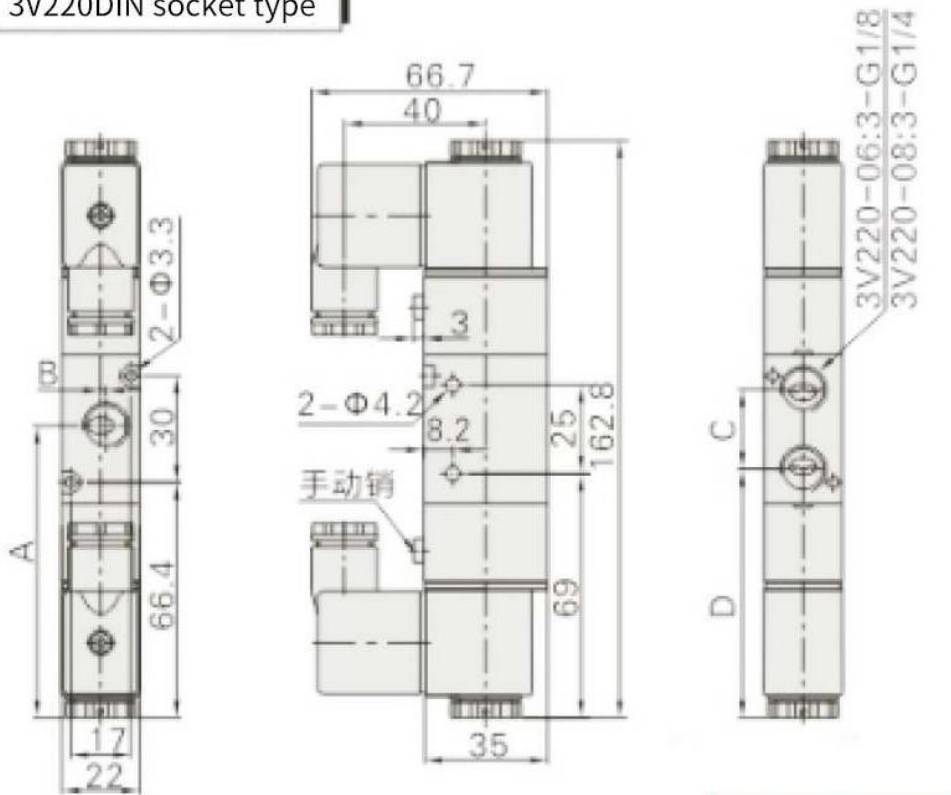
Conformity / Model	3V210-06	3V210-08
A	27.7	28.7
B	0	2
C	22	22.5
D	16.7	16.45

3V210DIN outlet type



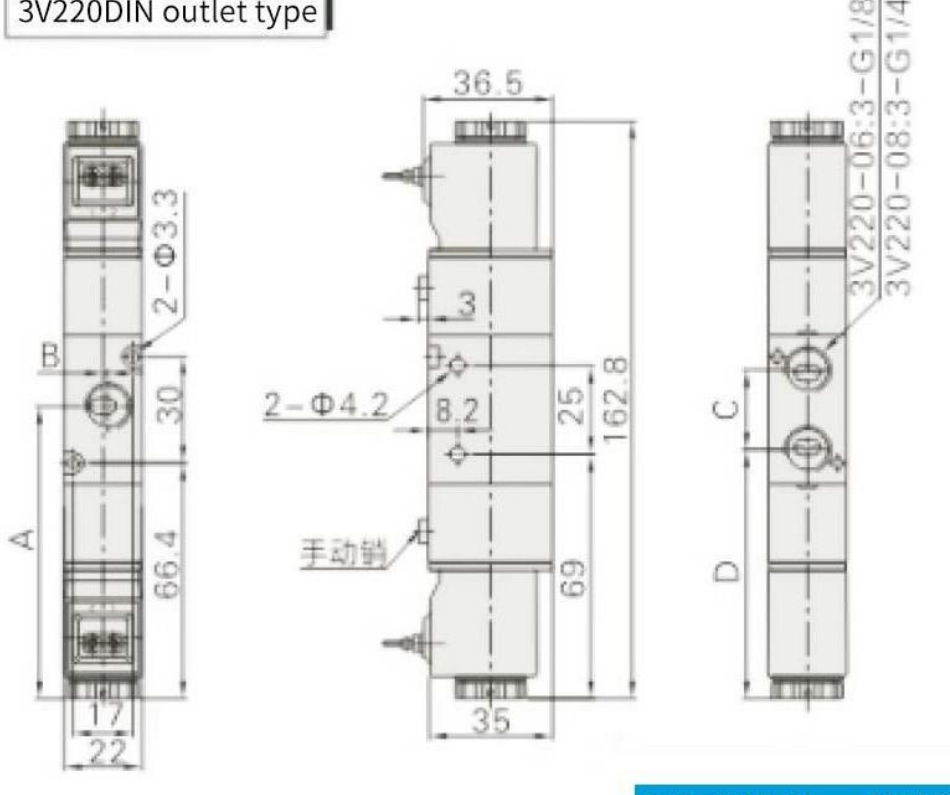
Conformity / Model	3V220-06	3V220-08
A	81.4	82.4
B	0	2
C	22	22.5
D	70.4	70.15

3V220DIN socket type



Conformity / Model	3V210-06	3V210-08
A	27.7	28.7
B	0	2
C	22	22.5
D	16.7	16.45

3V220DIN outlet type



Conformity / Model	3V220-06	3V220-08
A	81.4	82.4
B	0	2
C	22	22.5
D	70.4	70.15



Standard Specification

Model	3V310-08	3V320-08	3V310-10	3V320-10
Working medium	Air (filtered by a 40um or higher filter)			
Action mode	Pilot			
*Pipe diameter	G1/4		G3/8	
Effective cross-sectional area	25mm ² (Cv=1.39)		30mm ² (Cv=1.67)	
Number of positions	Three mouths and two bits			
**Lubrication	Not required			
Use pressure range	0.15-0.8MPa(21~114psi)			
Guaranteed pressure resistance	1.5Mpa			
Operating temperature	-20-70			
Body material	Aluminum alloy			

"Takeover tooth type has PT, NPT available;

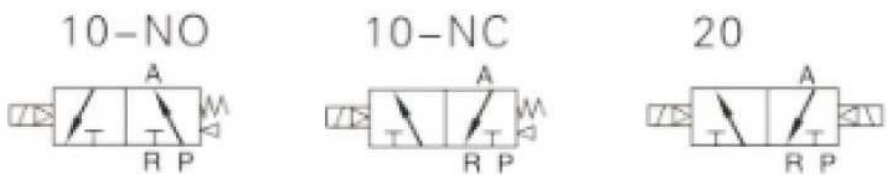
* If there is oil lubrication the middle must not stop, the recommended lubricant is ISOVG32 or the same level with oil

Electrical performance parameters

Item	Specific parameters
Standard Voltage	AC220V、AC110V、AC24V、DC24V、DC12V
Operating voltage range	AC:±15% DC:±10%
Power consumption	AC:6VA DC: 4.8W
Protection level	IP65(DIN40050)
Heat resistance class	Class B
Electrical type	DIN socket type, outlet type
Excitation time	Less than 0.05 seconds
Maximum operation frequency	5 times/sec

* The maximum operating frequency is the no-load condition.

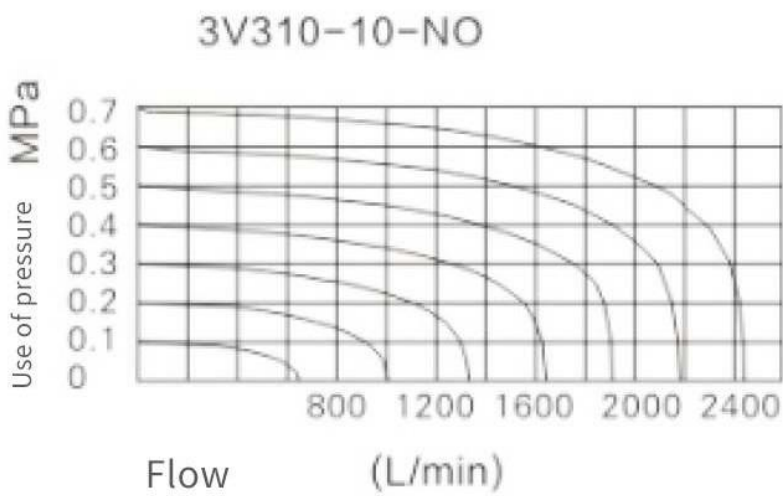
Symbols



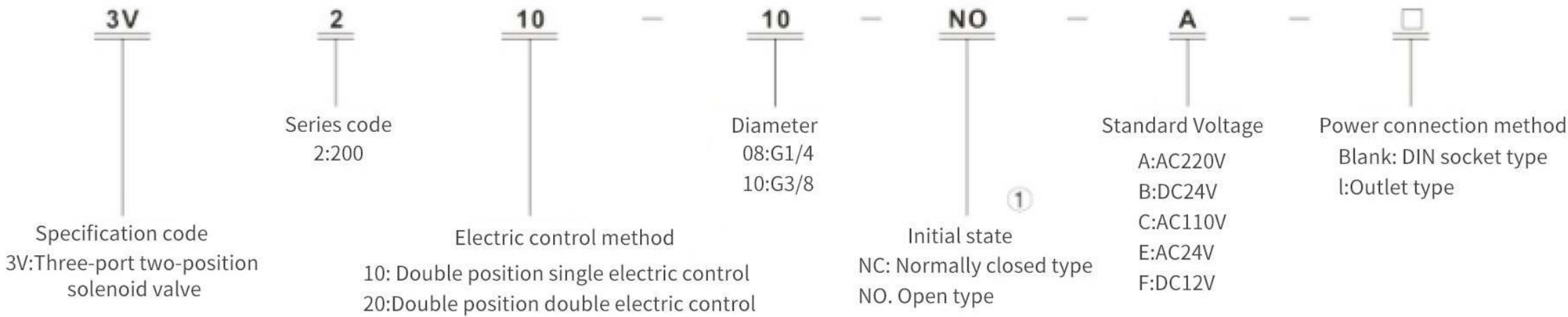
Product Features

1. Pilot method: external and internal optional.
2. Sliding column structure, good sealing, responsive.
3. Double-headed solenoid valve with memory function.
4. Bore with special processing technology, low friction resistance, low starting air pressure, long service life.
5. No need for oil lubrication.
6. With manual device, easy to install and debug
7. A variety of standard voltage levels are available for selection.
8. Can be integrated with the base valve group, saving installation space.1. Direct-acting normally closed type two-port two-position solenoid valve, rapid and sensitive direction change.
2. Lightweight and compact structure.
3. The valve body material is brass, the solenoid coil heat-resistant grade B, the seal material is fluorine rubber (VITON), suitable for a variety of working media.

Flow Characteristics



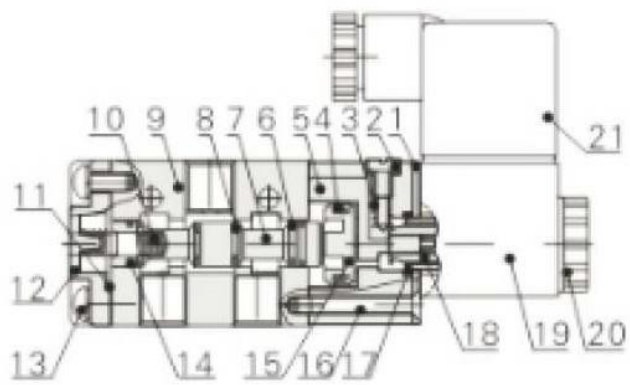
Model number indication method



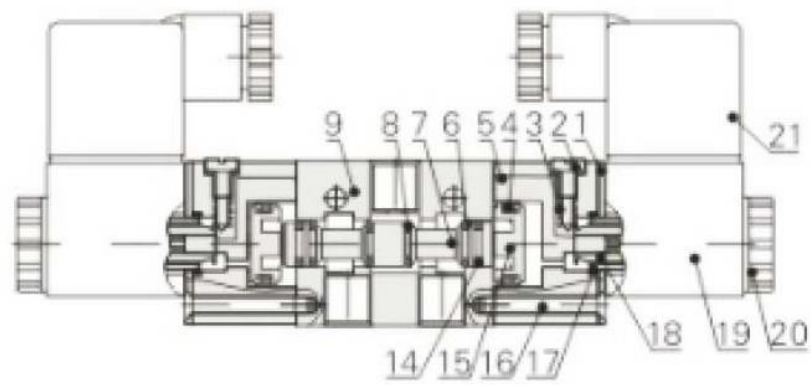
1 Note: Double position double electric control type is not normally open, normally closed, so this code is blank.

Internal structure

3V310



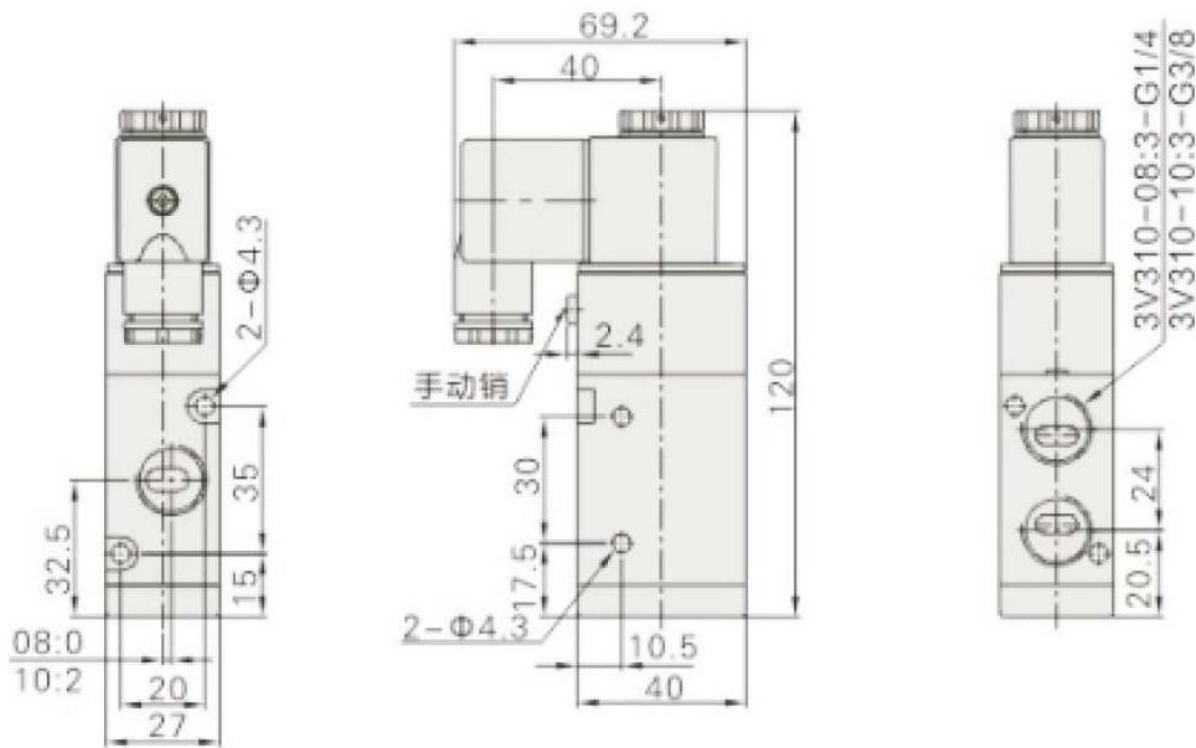
3V320



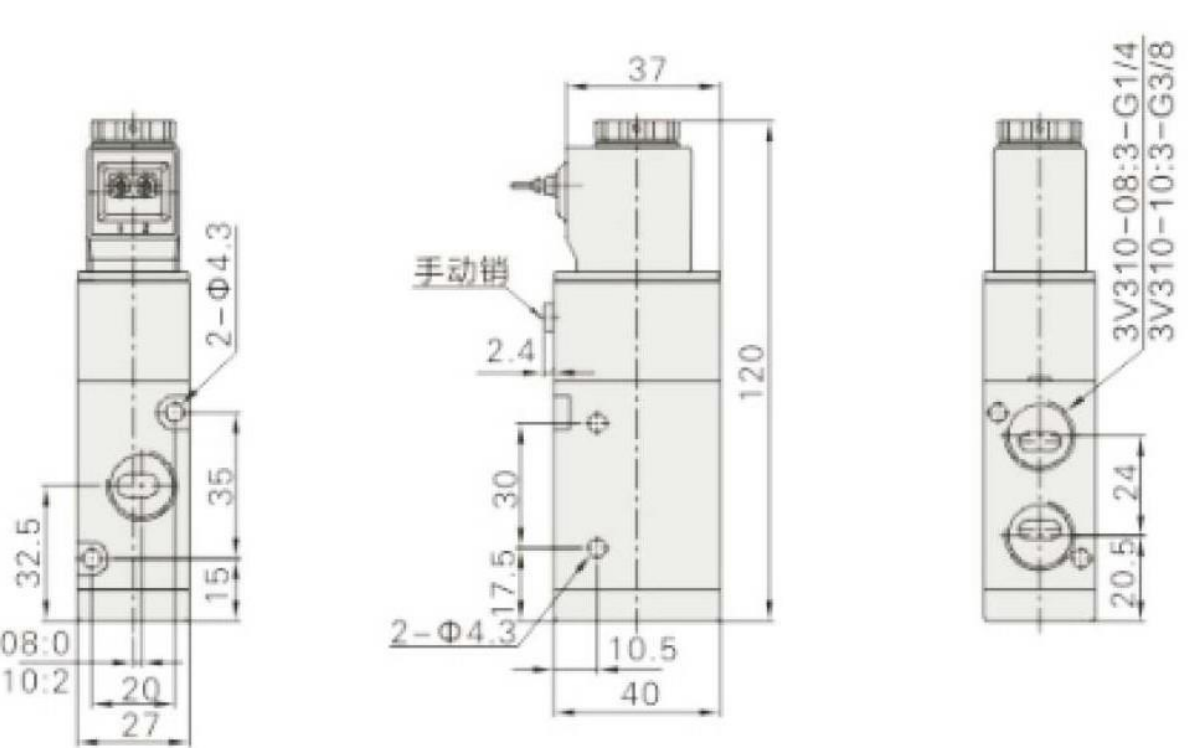
Number	Name	Number	Name	Number	Name
1	Fixed iron piece	8	O-order	15	Piston
2	Manual pin	9	Body	16	Countersunk head screws
3	Spring	10	Spring	17	O-ring
4	Shaped O-ring	11	Check gasket	18	movable iron
5	Guide body	12	Bottom cover	19	Coil
6	Shaped O-ring	13	Round head screws	20	Fixing nut
7	Shaft core	14	Abrasion Resistant Ring	21	Terminal

Dimensional drawing(mm)

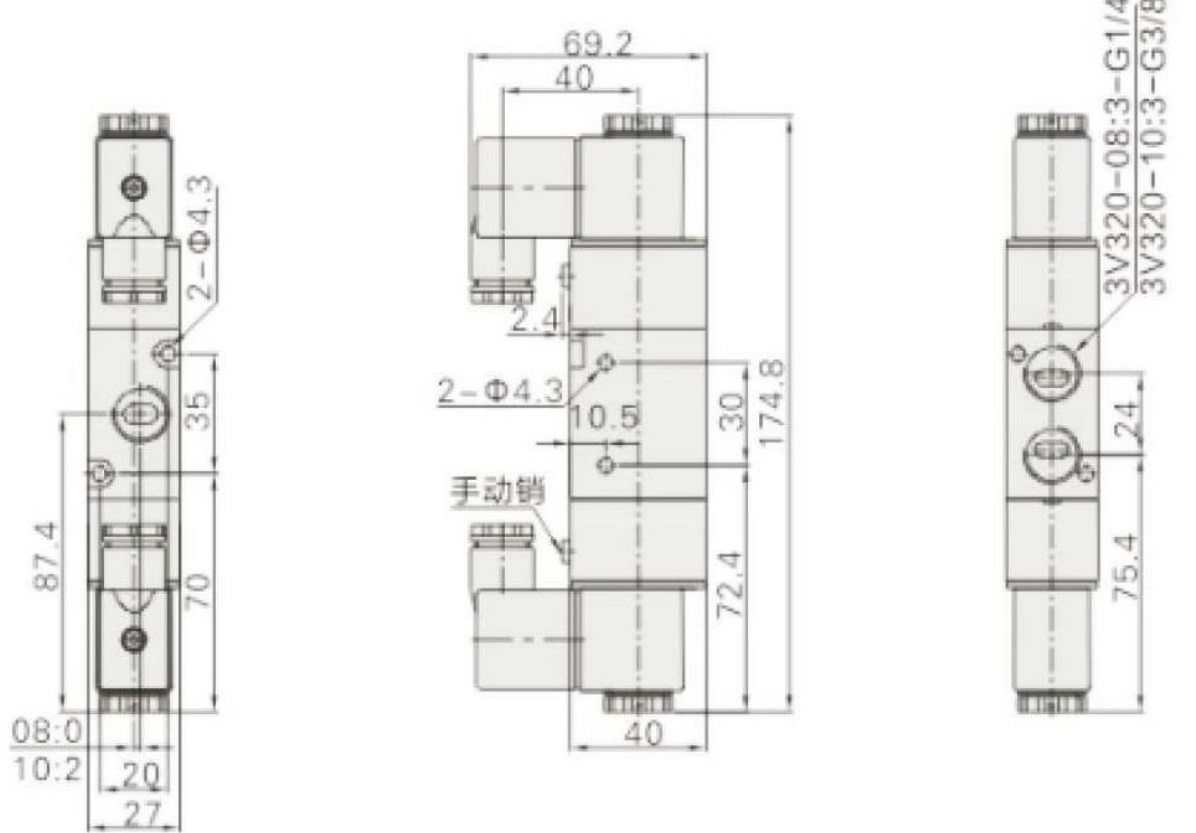
3V310DIN socket type



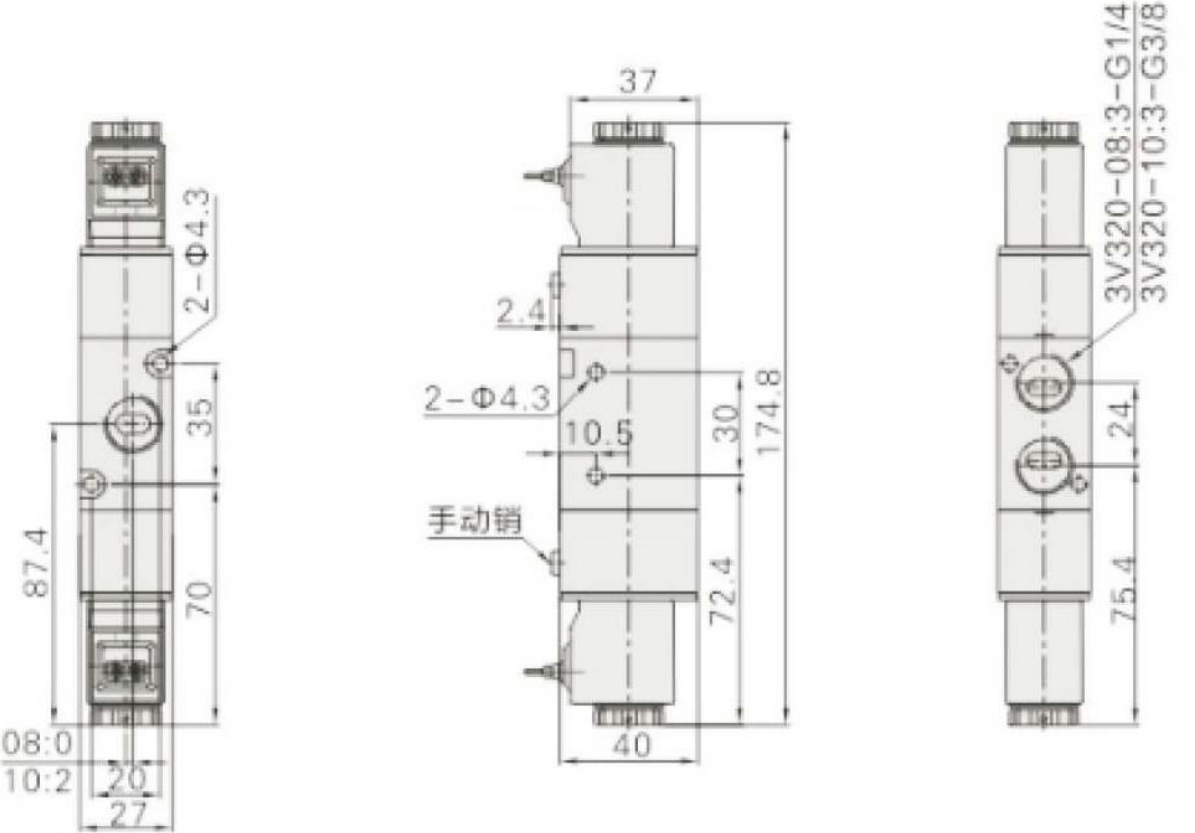
3V310DIN outlet type



3V320DIN socket type



3V320DIN outlet type



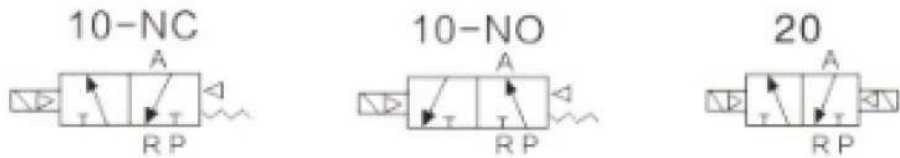
Standard Specification



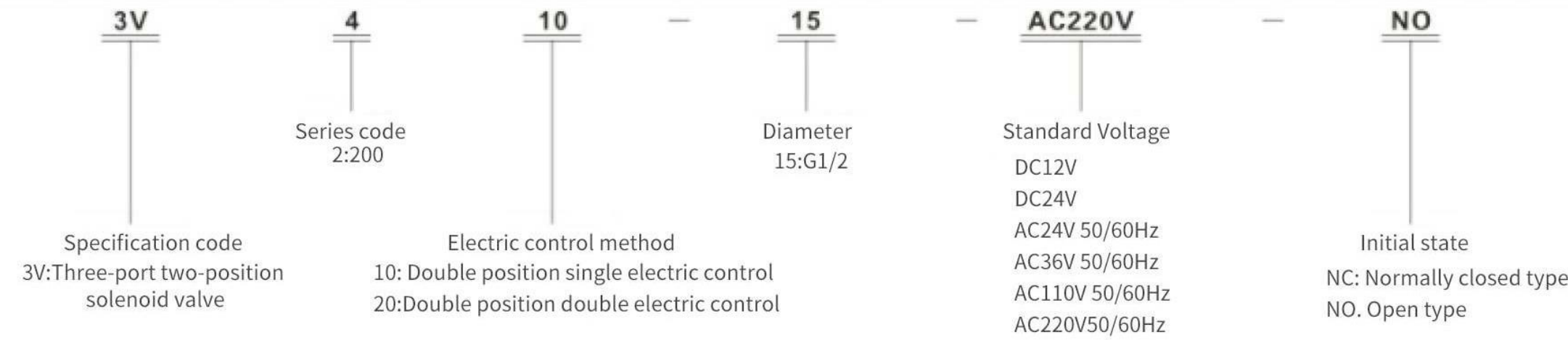
Item/conformity	3V410-15	3V420-15
Working medium	Air (filtered by 40um filter)	
Action mode	Internal pilot head	
Pipe diameter	Inlet air = Outlet air = G1/2	
Number of positions	Two-position tee	
Operating temperature	-5-60℃ (21-114Ps)	
Effective cross-sectional area	50mm² (Cv=2.79)	
Lubrication	Not required	
Use pressure	0.15-0.8Mpa(21-114Psi)	
Max. pressure resistance	1.2Mpa(170Psi)	
Power consumption	AC:6VADC:4.8W	
Protection level	IP65(DIN40050)	
Electrical connection type	Terminal type, wire-out type	
Body material	Aluminum alloy	
Max. operating frequency	3 times/second	
Heat resistance grade	Grade B	
Operating voltage range	-15%-10%	
Excitation time	Less than 0.05 seconds	

Symbols

Nota: Para los modelos “3V410-10” y “3V420-10” las especificaciones son las mismas a diferencia de Pipe diameter= G3/8”



Model number indication method



External dimension drawing (mm)

