



4V Series Solenoid valve



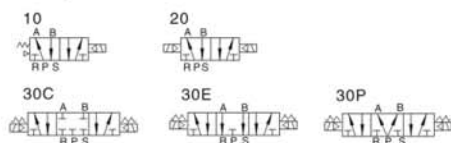
■ Specification

Model	4V210-06 4V220-06	4V230C-06 4V230E-06 4V230P-06	4V210-08 4V220-08	4V230C-08 4V230E-08 4V230P-08
Fluid	Air(to be filtered by 40um filter element)			
Acting	Piloted			
Port size ①	In=Out=Exhaust=1/8"		In=Out =1/4"	Exhaust=1/8"
Valid area of section	14.0mm ² (Cv=0.78)	12.0mm ² (Cv=0.67)	16.0mm ² (Cv=0.89)	12.0mm ² (Cv=0.67)
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 ℃	-20~70			
Material of body	Aluminum alloy			
Lubrication ②	Not required			
Max. frequency ③	5 cycle/sec	3 cycle/sec	5 cycle/sec	3 cycle/sec
Weight	4V210-06:220g 4V220-06:320g	360g	4V210-08:220g 4V220-08:320g	360g

■ 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

■ Symbol



■ Ordering code

4V	1	10	—	06	—	A	—	□	—	P
4V	2	10	—	08	—	A	—	□	—	P
4V	3	10	—	10	—	A	—	□	—	P
4V	4	10	—	15	—	A	—	□	—	P

Code

- 1: 100 Series
- 2: 200 Series
- 3: 300 Series
- 4: 400 Series

Model

4V: Solenoid valve
(5/2 5/3 way)

Port size

- M5: M5
- 06: 1/8"
- 08: 1/4"
- 10: 3/8"
- 15: 1/2"

Valve type

- 10: Single solenoid 5/2 way
- 20: Double solenoid 5/2 way
- 30C: Double solenoid 5/3 way closed center
- 30E: Double solenoid 5/3 way exhaust center
- 30P: Double solenoid 5/3 way pressure center

Voltage

- A: AC220V
- B: DC24V
- C: AC110V
- E: AC24V
- F: DC12V

Thread type

- P: PT
- T: NPT
- G: G

Electrical entry

- Blank: Terminal
- I: Grommet



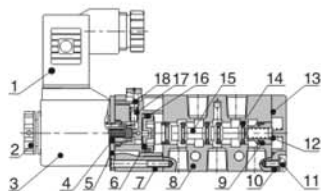
CE ISO9001

4V Series Solenoid valve

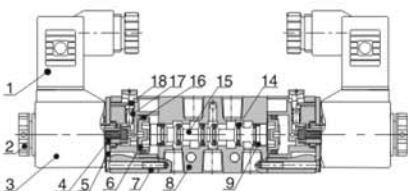
4V100 Series

Inner structure

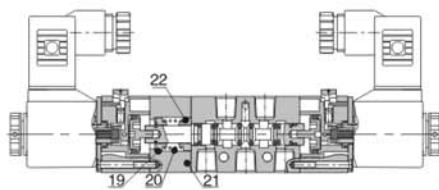
4V110



4V120



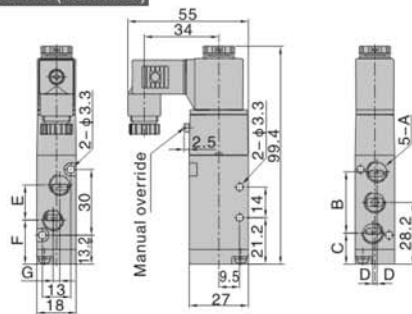
4V130C



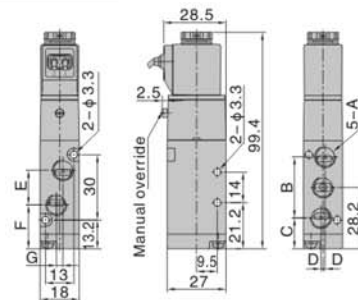
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit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

Dimensions

4V110(Terminal)

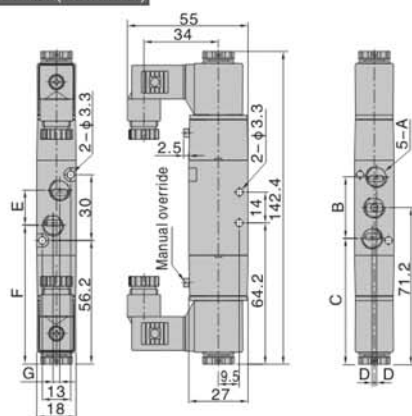


4V110(Grommet)

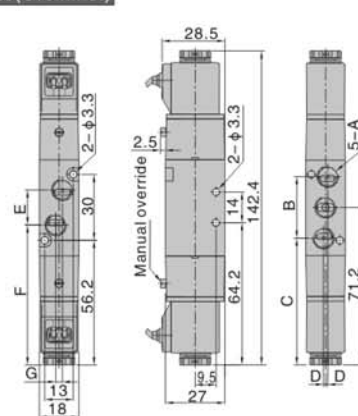


Model\Item	A	B	C	D	E	F	G
4V110-M5	M5 x 0.8	27	14.7	0	14	21.2	0
4V110-06	1/8"	28	14.2	1	16	20.2	3

4V120(Terminal)

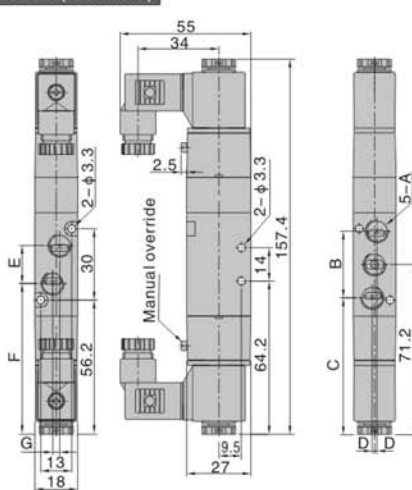


4V120(Grommet)

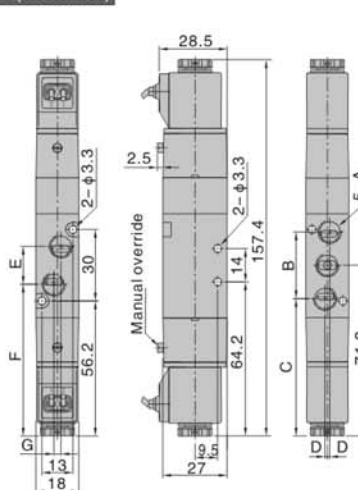


Model\Item	A	B	C	D	E	F	G
4V120-M5	M5 x 0.8	27	57.7	0	14	64.3	0
4V120-06	1/8"	28	57.2	1	16	63.2	3

4V130(Terminal)



4V130(Grommet)



Model\Item	A	B	C	D	E	F	G
4V130-M5	M5 x 0.8	27	57.7	0	14	64.3	0
4V130-06	1/8"	28	57.2	1	16	63.2	3



KYPC

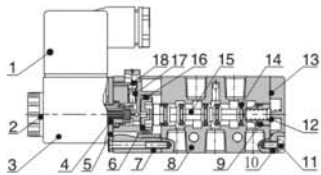
CE ISO9001

4V Series Solenoid valve

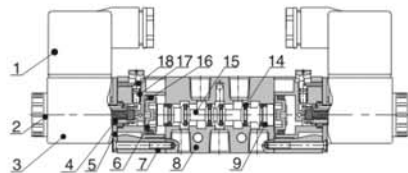
4V200 Series

Inner structure

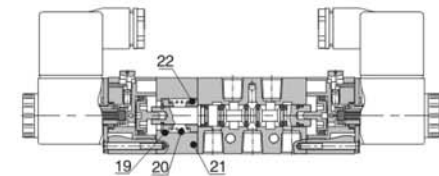
4V210



4V220



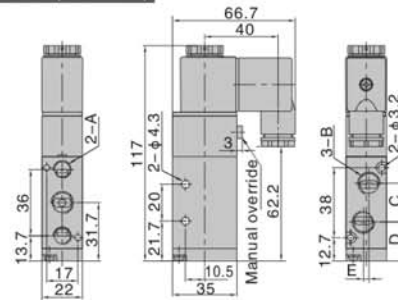
4V230C



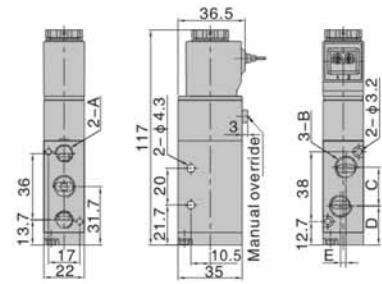
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit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

Dimensions

4V210(Terminal)

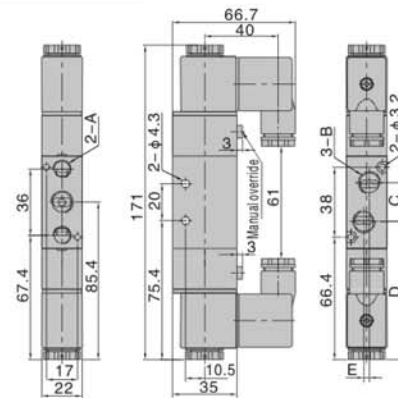


4V210(Grommet)

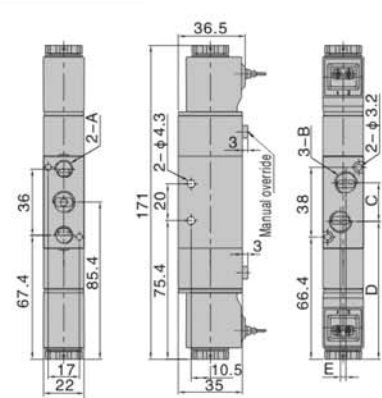


Model/Item	A	B	C	D	E
4V210-06	1/8"	1/8"	18	22.7	0
4V210-08	1/8"	1/4"	21	21.2	3

4V220(Terminal)

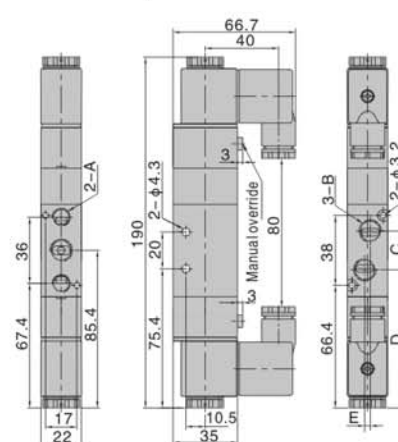


4V220(Grommet)

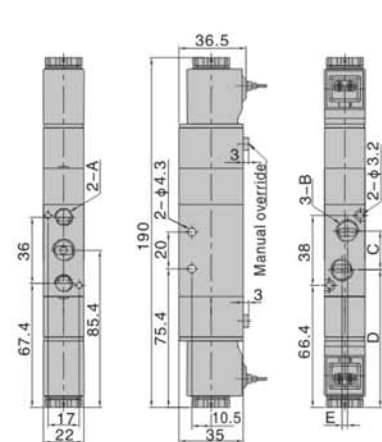


Model/Item	A	B	C	D	E
4V220-06	1/8"	1/8"	18	76.4	0
4V220-08	1/8"	1/4"	21	74.9	3

4V230(Terminal)



4V230(Grommet)



Model/Item	A	B	C	D	E
4V230-06	1/8"	1/8"	18	76.4	0
4V230-08	1/8"	1/4"	21	74.9	3



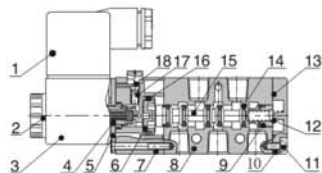
CE ISO9001

4V Series Solenoid valve

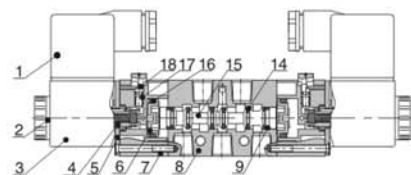
4V300 Series

Inner structure

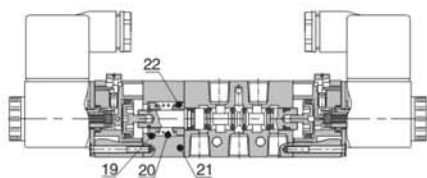
4V310



4V320



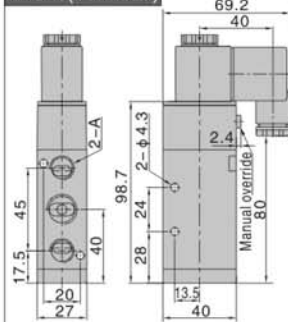
4V330C



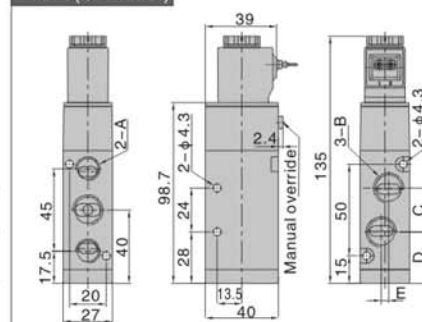
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit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

■ Dimensions

4V310(Terminal)

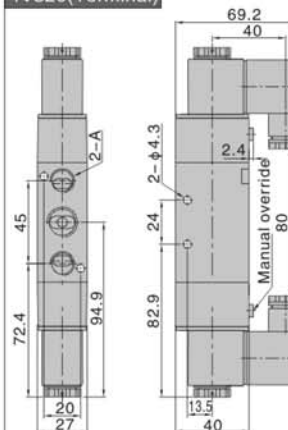


4V310(Grommet)

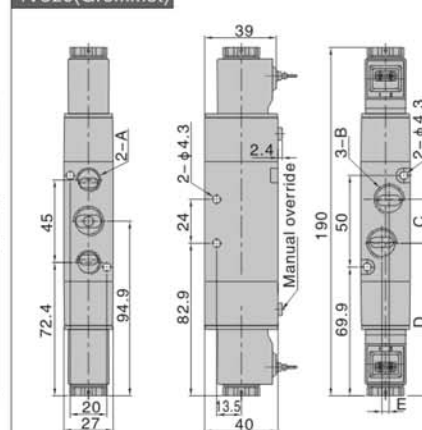


Model/Item	A	B	C	D	E
4V310-08	1/4"	1/4"	22	29	0
4V310-10	1/4"	3/8"	24	28	4

4V320(Terminal)

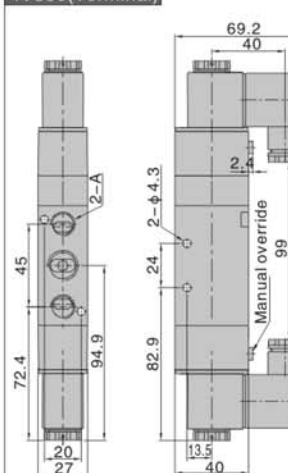


4V320(Grommet)

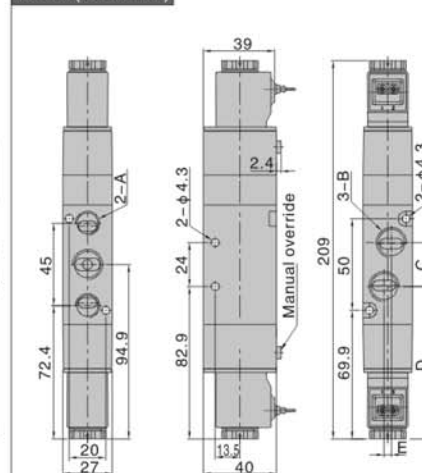


Model/Item	A	B	C	D	E
4V320-08	1/4"	1/4"	22	83.9	0
4V320-10	1/4"	3/8"	24	82.9	4

4V330(Terminal)



4V330(Grommet)



Model/Item	A	B	C	D	E
4V330-08	1/4"	1/4"	22	83.9	0
4V330-10	1/4"	3/8"	24	82.9	4



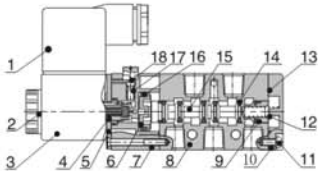
CE ISO9001

4V Series Solenoid valve

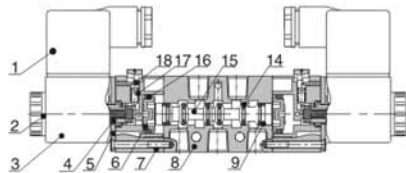
4V400 Series

Inner structure

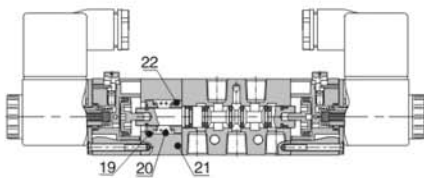
4V410



4V420



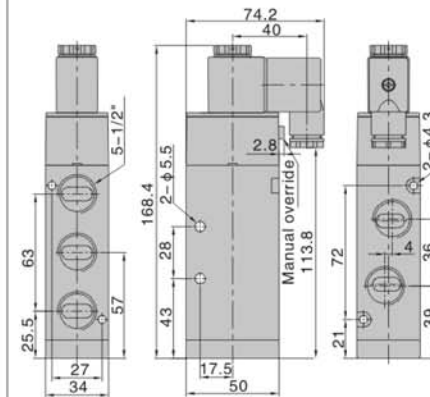
4V430C



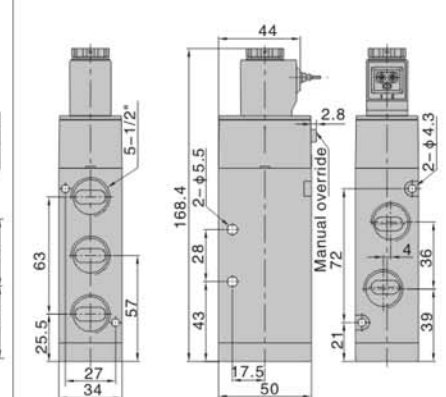
NO.	Item	NO.	Item	NO.	Item
1	Connector	9	Wear ring	17	Override spring
2	Coil nut	10	Bottom cover	18	Manual override
3	Coil	11	Fixed screw	19	Spring holder
4	Armature	12	Spool spring	20	Return spring
5	Fixed plate	13	Bottom cover gasket	21	Side cover
6	Piston	14	Spool O-ring	22	Spring holder
7	Pilot kit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

■ Dimensions

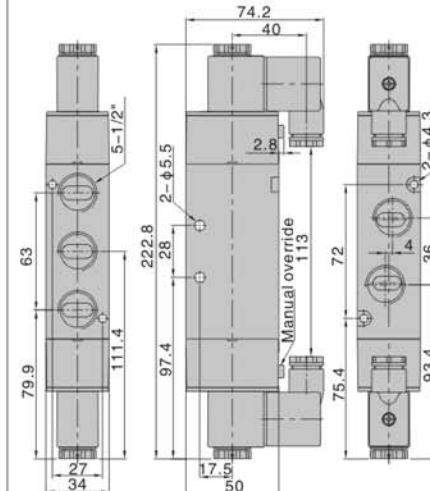
4V410(Terminal)



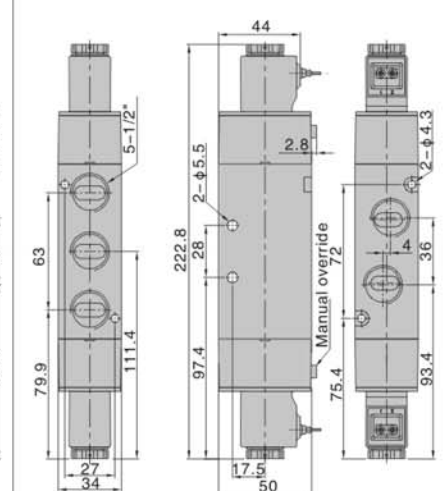
4V410(Grommet)



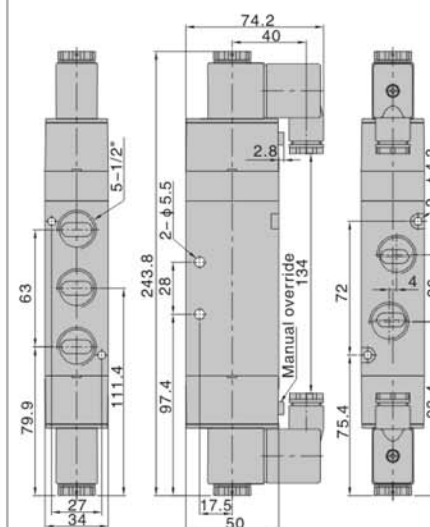
4V420(Terminal)



4V420(Grommet)



4V430(Terminal)



4V430(Grommet)

