

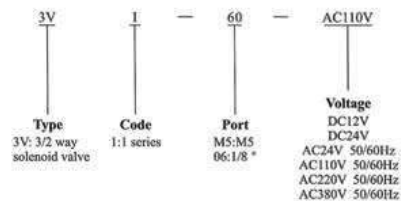
3/2 way solenoid valve(Direct acting)  3V1 series	3/2 way solenoid valve  3V100, 3V200, 3V300 series
5/2 & 5/3 way solenoid valve  4V100, 4V200, 4V300, 4V400, Namur series	3/2 way air valve  3A100, 3A200, 3A300 series
5/2 & 5/3 way air valve  4A100, 4A200, 4A300, 4A400, Manifold series	Hand operated valve  4H, 3L, 4L, S3, H5V, 4HV series
Flow control valve  ASC, QVA, VOR, QVU, ASV series	

3V1 Series

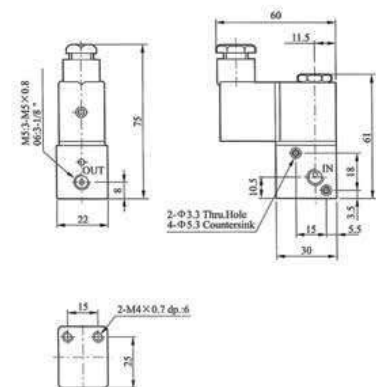
Symbol



Ordering code



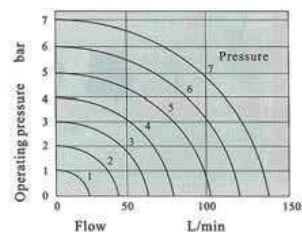
Dimension



Specification

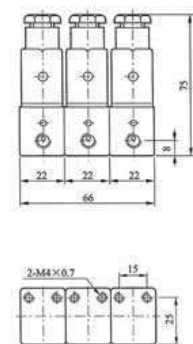
Model	3V1-M5	3V1-06
Media	Air	
Action	Direct acting	
Port size	M5	1/8"
Type	3 port 2 position	
Temp. Range	-5~60°C (23~140°F)	
Orifice size	1.2mm ²	
Lubrication	Not required	
Pressure range	0~8bar (0~8Kg/cm ²)	
Power consumption	AC380V:2.5VA, AC220V:2.0VA, AC110V:2.5VA, AC24V:3.5VA, DC24V:3.0W, DC12V:2.5W	
Protection	IP65(DIN40050)	
Connection	Socket with plug	
Material	Aluminum alloy	
Max.frequency	10 cycles/per ses.	
Insulation	F class	
Voltage range	-15%~+10%	
Min. Activate time	0.05sec.	

Flow chart

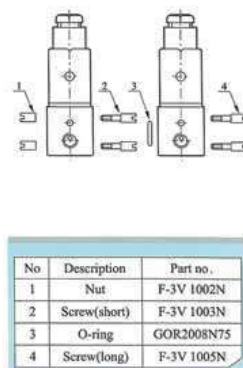


Connection

Dimension



Accessories



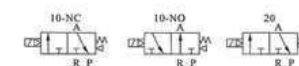
No	Description	Part no.
1	Nut	F-3V 1002N
2	Screw(short)	F-3V 1003N
3	O-ring	GOR2008N75
4	Screw(long)	F-3V 1005N

3V100 Series

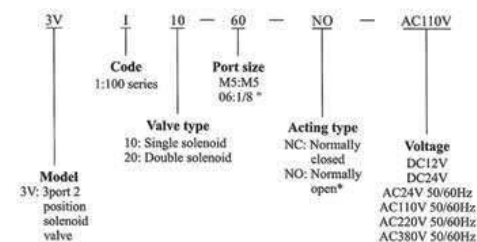
Specification

Model	3V110-M5	3V120-M5	3V110-06	3V120-06
Media	Air			
Action	Internally piloted			
Port size	In=Out=M5		In=Out=1/8"	
Type	3 port 2 position			
Temp. Range	-5~60℃(23~140°F)			
Orifice size	5.5mm ² (Cv=0.31)		1.2mm ² (Cv=0.67)	
Lubrication	Not required			
Pressure range	1.5~8bar(1.5~8kgf/cm ²)			
Proof pressure	12bar(12kgf/cm ²)			
Power consumption	AC380V:2.5VA, AC220V:2.0VA, AC110V:2.5VA AC24V:3.5VA, DC24V:3.0W, DC12V:2.5W			
Protection	IP65(DIN40050)			
Connection	Socket with plug			
Material	Aluminum alloy			
Max. frequency	10 cycles/per sec.			
Insulation	F class			
Voltage range	-15%~+10%			
Min. Activate time	0.05sec.			

Symbol



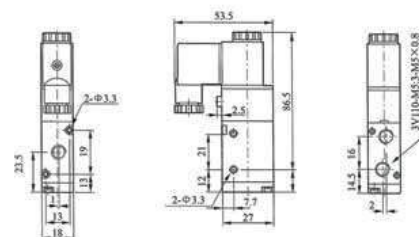
Ordering code



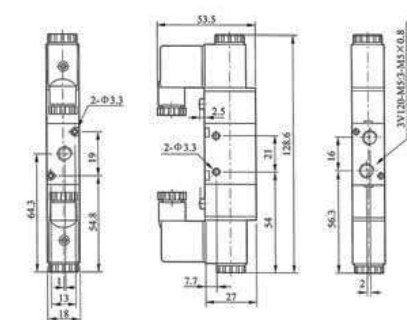
* Only single solenoid type has this specification.

Dimension

3V110

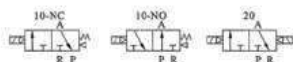


3V120



3V200 Series

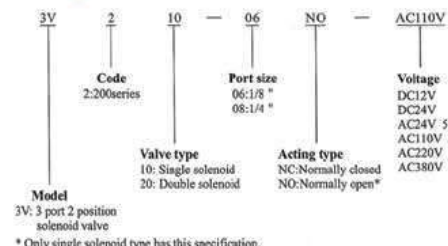
Symbol



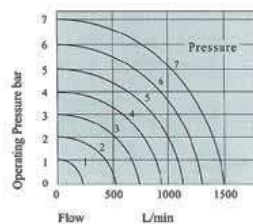
Specification

Model	3V210-06	3V220-06	3V210-08	3V220-08
Media	Air			
Action	Internally piloted			
Port size	In=Out=1/8"		In=Out=1/4"	
Type	3 port 2 position			
Temp. Range	-5~60℃(23~140°F)			
Orifice size	14mm ² (Cv=0.78)		16mm ² (Cv=0.89)	
Lubrication	Not required			
Pressure range	1.5~8bar(1.5~8Kgf/cm ²)			
Proof pressure	12bar(12Kgf/cm ²)			
Power consumption	AC380V:2.5VA, AC220V:2.0VA, AC110V:2.5VA, AC24V:3.5VA, DC24V:3.0W, DC12V:2.5W			
Protection	IP65(DIN40050)			
Connection	Socket with plug			
Material	Aluminum alloy			
Max. frequency	5 cycles/per sec.			
Insulation	F class			
Voltage range	-15%~+10%			
Min. Activate time	0.05sec.			

Ordering code

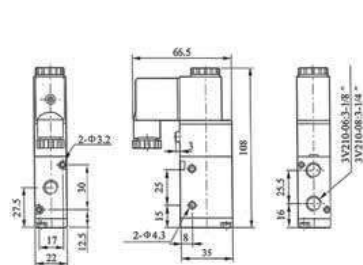


Flow chart

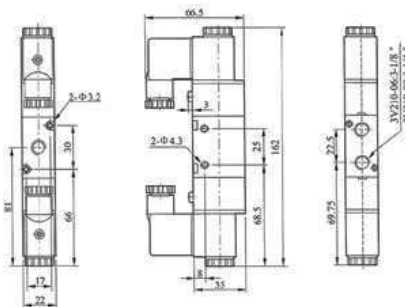


Dimension

3V 210



3V 220

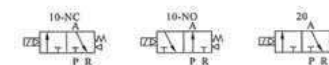


3V300 Series

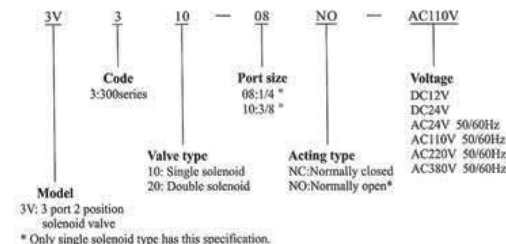
Specification

Model	3V310-08	3V320-08	3V310-10	3V320-10
Media	Air			
Action	Internally piloted			
Port size	In=Out=1/4" *		In=Out=3/8" *	
Type	3 port 2 position			
Temp. Range	-5~60°C (23~140° F)			
Orifice size	25mm ² (Cv=1.39)		12mm ² (Cv=1.67)	
Lubrication	Not required			
Pressure range	1.5~8bar (1.5~8kgf/cm ²)			
Proof pressure	12bar (12kgf/cm ²)			
Power consumption	AC380V:2.5VA、AC220V:2.0VA、AC110V:2.5VA、 AC24V:3.5VA、DC24V:3.0W、DC12V:2.5W			
Protection	IP65(DIN40050)			
Connection	Socket with plug			
Material	Aluminum alloy			
Max.frequency	5 cycles/per sec.			
Insulation	F class			
Voltage range	-15%~+10%			
Min. Activate time	0.05sec.			

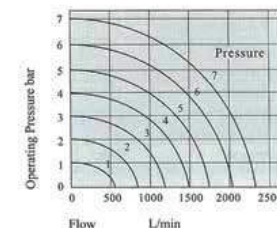
Symbol



Ordering code

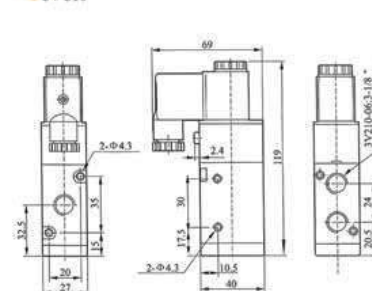


Flow chart

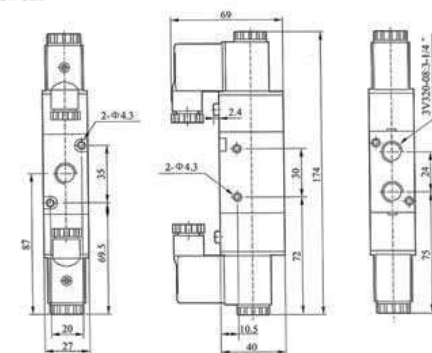


Dimension

3V 310



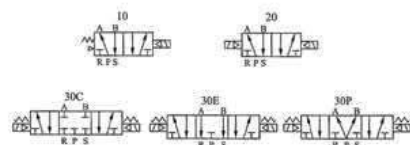
3V 320



4V100 Series



Symbol



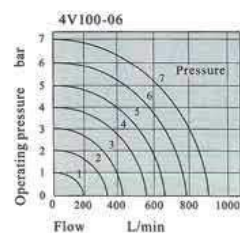
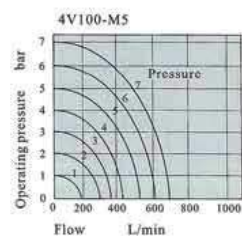
Specification

Model	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
Media	Air									
Operating	Internally piloted									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	5.5mm ² (Cv=0.31)		5mm ² (Cv=0.28)			12mm ² (Cv=0.67)		9mm ² (Cv=0.50)		
Port size	In=Out=Exhaust=M5					In=Out=Exhaust=1/8"				
Lubrication	Not required									
Pressure range	1.5-8bar(1.5-8Kg ² /cm ²)									
Proof pressure	12bar(12Kg ² /cm ²)									
Temp. Range	-5-60℃(23-140°F)									
Voltage range	±10%									
Power consumption	AC:30VA DC:2.5W									
Insulation	F class									
Protection	IP65(DIN40050)									
Connection	Socket with plug									
Max. frequency	5 cycles/per sec		3 cycles/per sec			5 cycles/per sec		3 cycles/per sec		
Min. Activate time	0.05 sec.									
Weight	120g	175g	200g	200g	200g	120g	175g	200g	200g	200g

Ordering code

4V	1	10	—	06	—	AC110V
Model	Code	Valve type		Port size		Voltage
4V: 5 port 2(3)position solenoid valve	1:100 series	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		M5:M5×0.8 06:1/8"		AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz

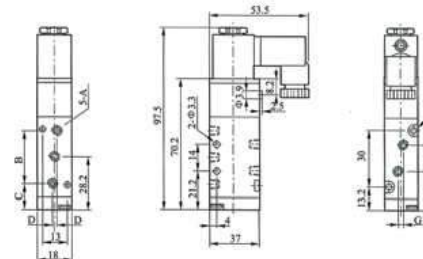
Flow chart



4V100 Series

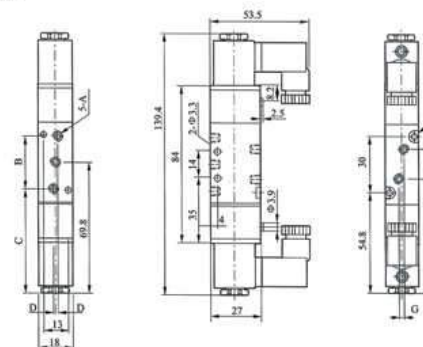
Dimensions

• 4V 110



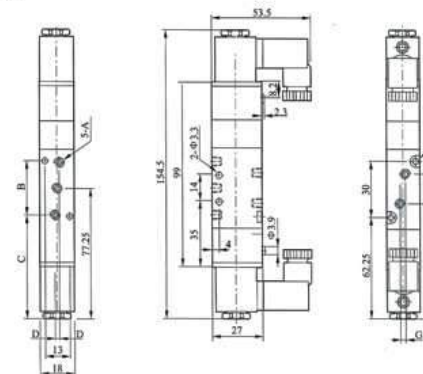
Item\Model	4V110-M5	4V110-06
A	M5×0.8	1/8"
B	27	28
C	14.7	14.2
D	0	1
E	14	16
F	21.2	20.2
G	0	3

• 4V 120



Item\Model	4V120-M5	4V120-06
A	M5×0.8	1/8"
B	27	28
C	56.2	55.7
D	0	1
E	14	16
F	62.7	61.7
G	0	3

• 4V 130

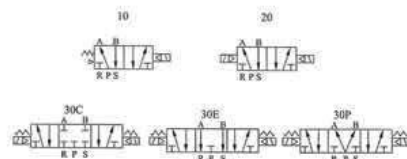


Item\Model	4V130-M5	4V130-06
A	M5×0.8	1/8"
B	27	28
C	63.75	63.25
D	0	1
E	14	16
F	70.25	69.25
G	0	3

4V200 Series



Symbol



Specification

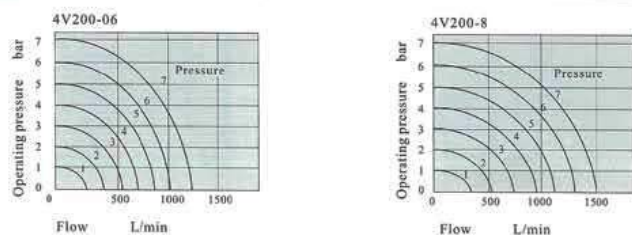
Model	4V210-06	4V220-06	4V230C-06	4V230E-06	4V230P-06	4V210-08	4V220-08	4V230C-08	4V230E-08	4V230P-08
Media	Air									
Operating	Internally piloted									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	14mm ² (Cv=0.78)		12mm ² (Cv=0.67)			16mm ² (Cv=0.89)		12mm ² (Cv=0.67)		
Port size	In=Out=Exhaust=1/8 "					In=Out=1/4 " Exhaust=1/8 "				
Lubrication	Not required									
Pressure range	1.5~8bar(1.5~8Kg/cm ²)									
Proof pressure	12bar(12Kg/cm ²)									
Temp. Range	-5~60°C(23~140° F)									
Voltage range	-15%~±10%									
Power consumption	AC380V:2.5VA, AC220V:2.0VA, AC110V:2.5VA, AC24V:3.5VA, DC24V:3.0W, DC12V:2.5W									
Insulation	F class									
Protection	IP65(DIN40050)									
Connection	Socket with plug									
Max. frequency	5 cycles/per sec		3 cycles/per sec			5 cycles/per sec		3 cycles/per sec		
Min. Activate time	0.05 sec.									
Weight	220g	320g	400g	400g	400g	220g	320g	400g	420g	400g

Ordering code

4V	2	10	—	08	—	AC110V
Model	Code	Valve type		Port size		Voltage
4V: 5 port 2(3) position solenoid valve	2: 200 series	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		06: 1/8" 08: 1/4"		DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz

* Note: Please refer page26-27 for manifold type and ordering.

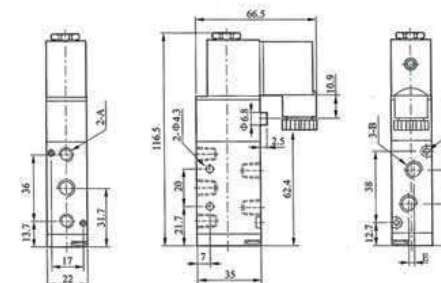
Flow chart



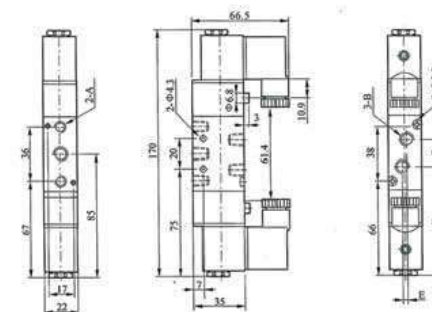
4V200 Series

Dimensions

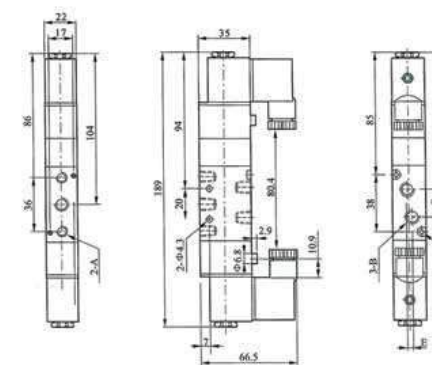
4V 210



4V 220



4V 230



Item/Model	4V210-06	4V210-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	22.7	21.7
E	0	3

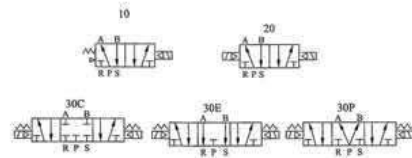
Item/Model	4V220-06	4V220-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	76	74.5
E	0	3

Item/Model	4V230-06	4V230-08
A	1/8"	1/8"
B	1/8"	1/4"
C	18	21
D	95	93.5
E	0	3

4V300 Series



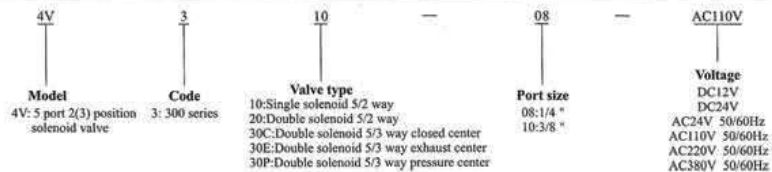
Symbol



Specification

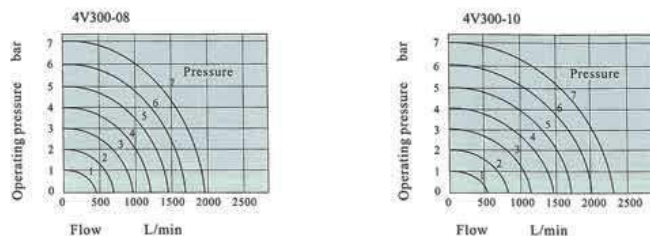
Model	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
Media	Air									
Operating	Internally piloted									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	25mm ² (Cv=1.39)		18mm ² (Cv=1.00)			30mm ² (Cv=1.67)		18mm ² (Cv=1.00)		
Port size	In=Out=Exhaust=1/4 "					In=Out=3/8 Exhaust=1/4 "				
Lubrication	Not required									
Pressure range	1.5~8bar(1.5~8Kg/cm ²)									
Proof pressure	12bar(12Kg/cm ²)									
Temp.Range	-5~60°C(23~140°F)									
Voltage range	-15%~+10%									
Power consumption	AC380V:2.5VA、AC220V:2.0VA、AC110V:2.5VA、AC24V:3.5VA、DC24V:3.0W、DC12V:2.5W									
Insulation	F class									
Protection	IP65(DIN40050)									
Connection	Socket with plug									
Max.frequency	4 cycles/per sec		3 cycles/per sec			4 cycles/per sec		3 cycles/per sec		
Min. Activate time	0.05 sec.									
Weight	310g	400g	540g	540g	540g	310g	400g	540g	540g	540g

Ordering code



* Note: Please refer page26~27for manifold type and ordering.

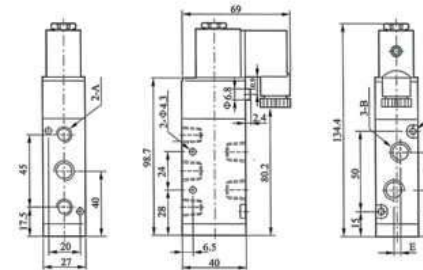
Flow chart



4V300 Series

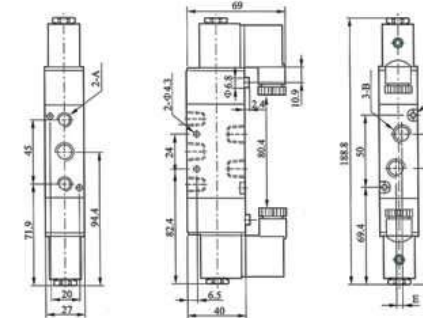
Dimensions

4V 310



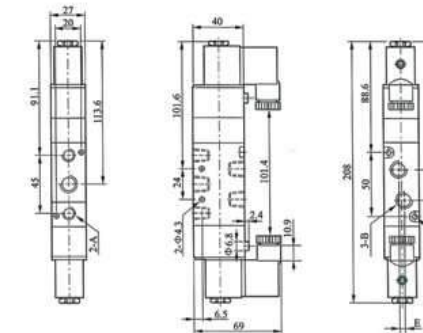
Item/Model	4V310-08	4V310-10
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	24
D	29	28
E	0	4

4V 320



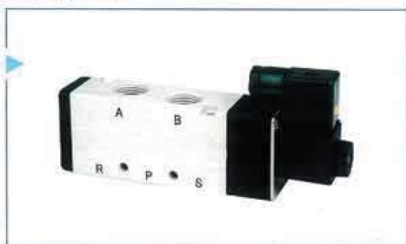
Item/Model	4V320-06	4V320-08
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	24
D	83.4	82.4
E	0	4

4V 330

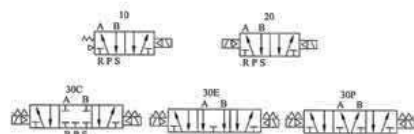


Item/Model	4V330-08	4V330-10
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	24
D	102.6	101.6
E	0	4

4V400 Series



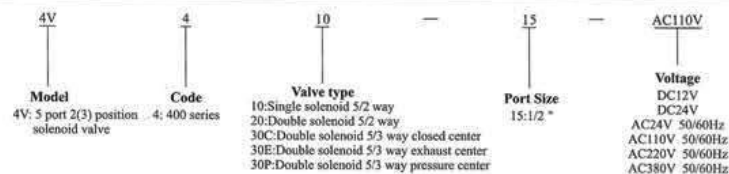
Symbol



Specification

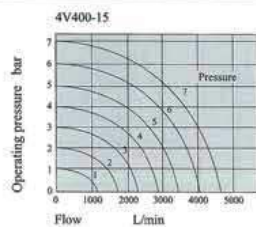
Model	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Media	Air				
Operating	Internally piloted				
Type	5 port 2 position		5 port 3 position		
Orifice size	50mm ² (Cv=2.79)		30mm ² (Cv=1.67)		
Port size	In=Out=Exhaust=1/2"				
Lubrication	Not required				
Pressure range	1.5~8bar(1.5~8Kgf/cm ²)				
Proof pressure	12bar(12Kgf/cm ²)				
Temp.Range	-5~60℃(23~140°F)				
Voltage range	-15%~+10%				
Power consumption	AC380V:2.5VA、AC220V:2.0VA、AC110V:2.5VA、AC24V:3.5VA、DC24V:3.0W、DC12V:2.5W				
Insulation	F class				
Protection	IP65(DIN40050)				
Connection	Socket with plug				
Max.frequency	3 cycles/per sec				
Min. Activate time	0.05 sec.				
Weight	590g	770g	770g	770g	770g

Ordering code



* Note: Please refer page26~27 for manifold type and ordering.

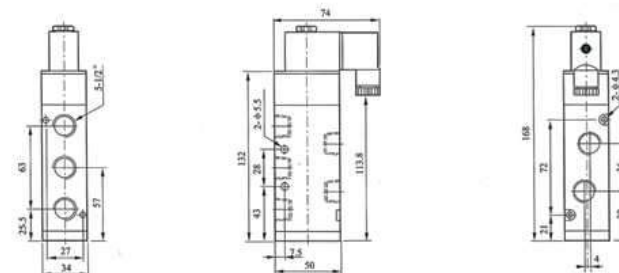
Flow chart



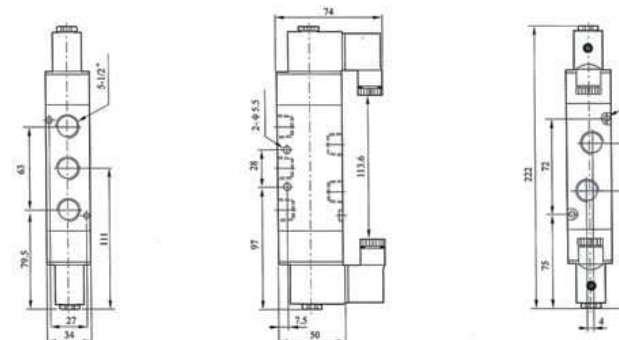
4V400 Series

Dimensions

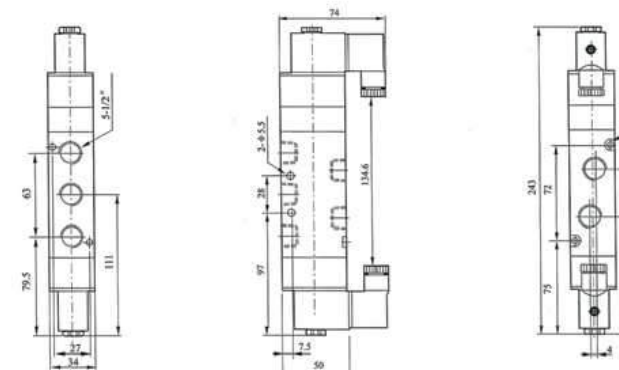
4V 410



4V 420



4V 430



NAMUR Series



Symbol



Specification

Model	4M210-06 \ 4M220-06	4M210-08 \ 4M220-08	4M310-08 \ 4M320-08	4M310-10 \ 4M320-10
Media	Air			
Operating	Internally piloted			
Type	5 port 2 position			
Orifice size	14mm ² (Cv=0.78)	16mm ² (Cv=0.89)	25mm ² (Cv=1.39)	30mm ² (Cv=1.67)
Port size	In=Exhaust=1/8"	In=1/4" Exhaust=1/8"	In=1/4" Exhaust=1/4"	In=3/8" Exhaust=1/4"
Lybrication	Not required			
Pressure range	1.5~8bar(1.5~8Kg/cm ²)			
Proof pressure	12bar(12Kg/cm ²)			
Temp.Range	-5~60°C(23~140°F)			
Voltage range	-15%~+10%			
Power consumption	AC380V:2.5VA、AC220V:2.0VA、AC110V:2.5VA、AC24V:3.5VA、DC24V:3.0W、DC12V:2.5W			
Insulation	F class			
Protection	IP65(DIN40050)			
Connection	Socket with plug			
Max.frequency	3 cycles/per sec			
Min. Activate time	0.05 sec.			

Ordering code

4M	2	10	—	06	—	AC110V
Model	Code	Valve type		Port Size		Voltage
4M: 5 port 2 position solenoid valve (namur type)	2: 200 series 3: 300 series	10: Single solenoid 20: Double solenoid		06: 1/8" 08: 1/4" 10: 3/8"		DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz

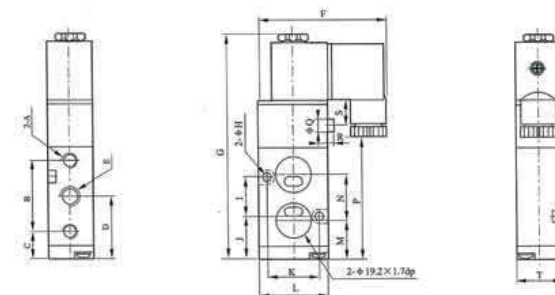
Flow chart

Please refer to the flow chart 4V series solenoid valve.

NAMUR Series

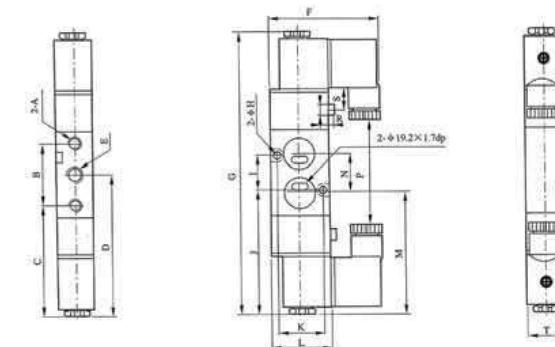
Dimensions

Single solenoid series



Model/Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	
4M210	06	1/8"	36	13.7	31.7	1/8"	66.5	116.5	4.3	20	21.7	29	35	20.2	23	62.4	6.8	2.5	11	22
	08	1/8"	36	13.7	31.7	1/4"	66.5	116.5	4.3	20	21.7	29	35	20.2	23	62.4	6.8	2.5	11	22
4M310	08	1/4"	45	17	39.5	1/4"	69	134.5	5.2	24	27.5	32	40	29	22	80.2	6.8	3.3	11	27
	10	1/4"	45	17	39.5	3/8"	69	134.5	5.5	24	27.5	32	40	29	22	80.2	6.8	3.3	11	27

Double solenoid series

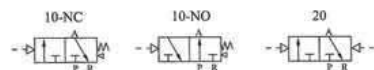


Mode/Item		A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T
4M220	06	1/8"	36	67	85	1/8"	66.5	170	4.3	20	75	29	35	73.5	23	61.4	6.8	2.5	11	2
	08	1/8"	36	67	85	1/4"	66.5	170	4.3	20	75	29	35	73.5	23	61.4	6.8	2.5	11	2
4M320	08	1/4"	45	72	94.5	1/4"	69	181	5.2	24	82.4	32	40	79.5	22	80.2	6.8	3.3	11	2
	10	1/4"	45	72	94.5	3/8"	69	181	5.5	24	82.4	32	40	79.5	22	80.2	6.8	3.3	11	2

3A 100 Series



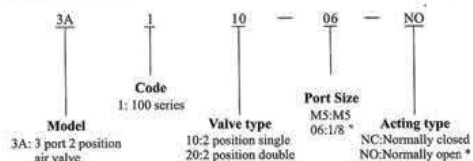
Symbol



Specification

Model	3A110-M5	3A120-M5	3A110-M6	3A120-M6
Media	Air			
Action	Exterior control			
Port size	In=Out=M5		In=Out=1/8"	
Type	3 port 2 position			
Temp.Range	-5~60°C(23~140° F)			
Orifice size	5.5mm ² (Cv=0.31)		1.2mm ² (Cv=0.67)	
Lubrication	Not required			
Pressure range	1.5~8bar(1.5~8Kg/cm ²)			
Proof pressure	12bar(12Kg/cm ²)			
Material of body	Aluminum alloy			
Max.frequency	5 cycles/per sec.			

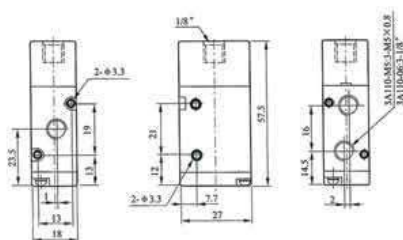
Ordering code



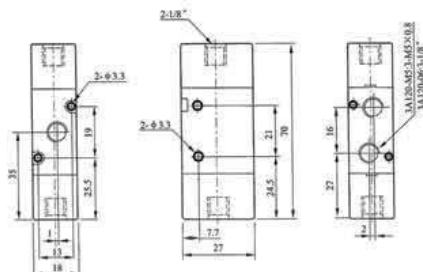
* Only 2 position single has NC. Or NO. type.

Dimension

3A 110

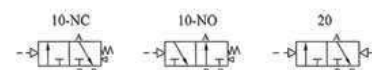


3A 120



3A 200 Series

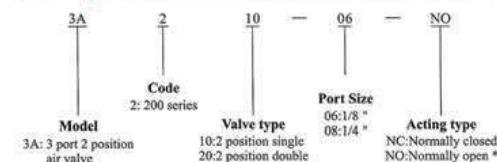
Symbol



Specification

Model	3A210-06	3A220-06	3A210-08	3A220-08
Media	Air			
Action	Exterior control			
Port size	In=Out=1/8 "		In=Out=1/4 "	
Type	3 port 2 position			
Temp.Range	-5~-60℃ (23~140° F)			
Orifice size	14mm ² (Cv=0.78)		16mm ² (Cv=0.89)	
Lubrication	Not required			
Pressure range	1.5~8bar(1.5~8Kg/cm ²)			
Proof pressure	12bar(12Kg/cm ²)			
Material of body	Aluminum alloy			
Max frequency	5 cycles/per sec.			

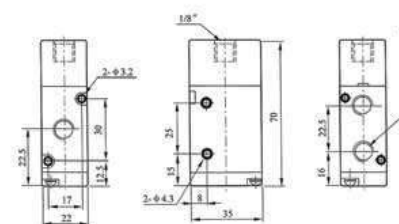
Ordering code



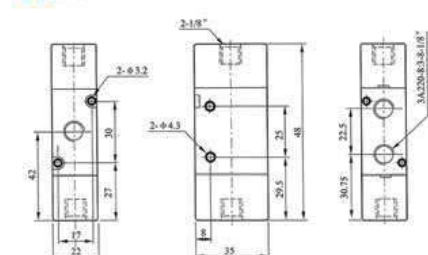
* Only 2 position single has NC. Or NO. type.

Dimension

3A 210



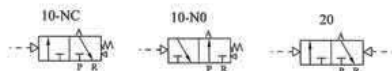
3A 220



3A 300 Series



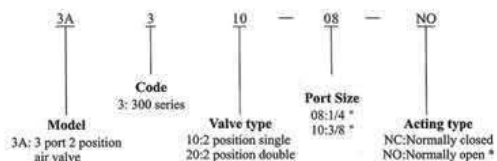
Symbol



Specification

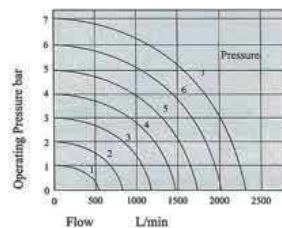
Model	3A310-08	3A320-08	3A310-10	3A320-10
Media	Air			
Action	Exterior control			
Port size	In=Out=1/4 "		In=Out=1/8 "	
Type	3 port 2 position			
Temp.Range	-5~60℃(23~140° F)			
Orifice size	25mm²(Cv=1.39)		30mm²(Cv=1.67)	
Lubrication	Not required			
Pressure range	1.5~8bar(1.5~8Kg/cm²)			
Proof pressure	12bar(12Kg/cm²)			
Material of body	Aluminum alloy			
Max.frequency	5 cycles/per sec.			

Ordering code



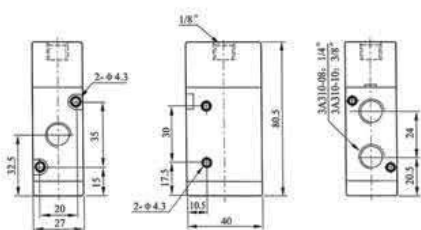
* Only 2 position single has NC. Or NO. type.

Flow chart

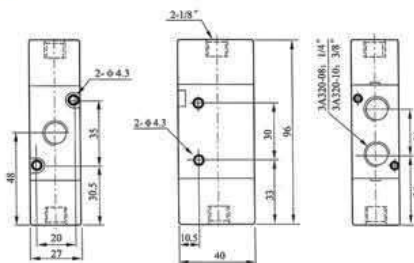


Dimension

3A 310

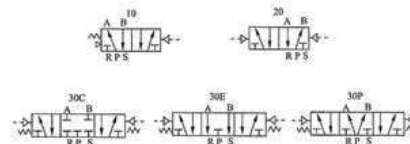


3A 320



4A 100 Series

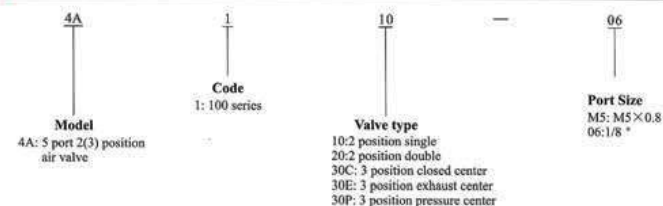
Symbol



Specification

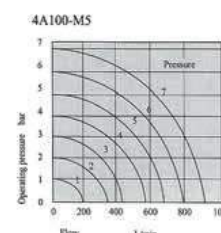
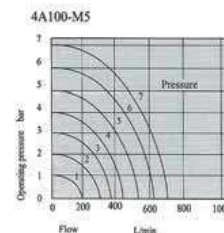
Model	4A100-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06
Media	Air									
Action	Exterior control									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	5.5mm ² (Cv=0.31)		5mm ² (Cv=0.28)			12mm ² (Cv=0.67)		9mm ² (Cv=0.50)		
Port size	In=Out=Exhaust=M5					In=Out=Exhaust=1/8 *				
Lubrication	Not required									
Pressure range	1.5~8bar(1.5~8Kg/f/cm ²)									
Proof pressure	12bar(12Kg/f/cm ²)									
Temp. Range	-5~60℃(23~140° F)									
Max.frequency	5 cycles/per sec.		3 cycles/per sec.			5 cycles/per sec.			3 cycles/per sec.	
Weight	120g	175g	200g	200g	200g	120g	175g	200g	200g	200g

Ordering code



* Note: Please refer page 26-27 for manifold type and ordering.

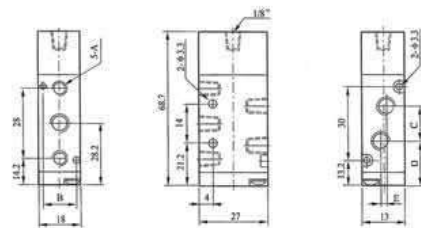
Flow chart



4A 100 Series

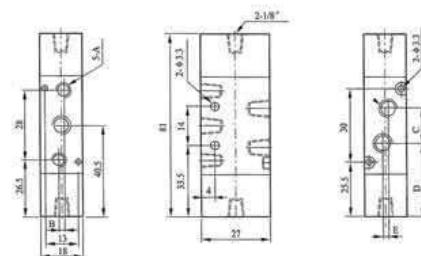
Dimensions

4A 110



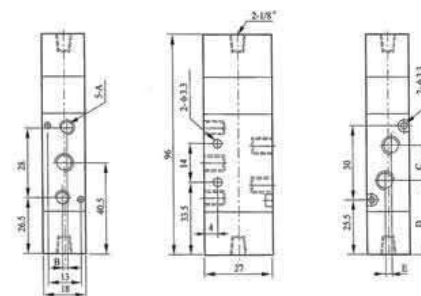
Item/Model	4A110-M5	4A110-06
A	M5×0.8	1/8"
B	0	2
C	14	16
D	21.2	20.2
E	0	3

4A 120



Item/Model	4A120-M5	4A120-06
A	M5×0.8	1/8"
B	0	2
C	14	16
D	33.5	32.5
E	0	3

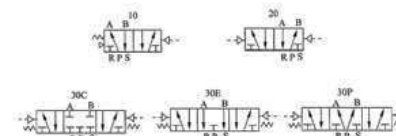
4A 130



Item/Model	4A130-M5	4A110-06
A	M5×0.8	1/8"
B	0	2
C	14	16
D	33.5	32.5
E	0	3

4A 200 Series

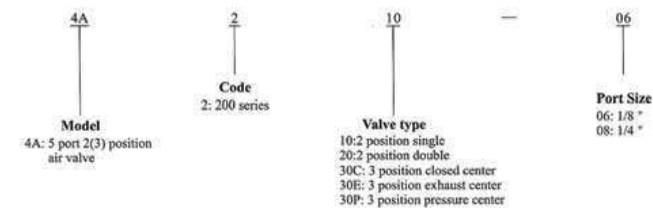
Symbol



Specification

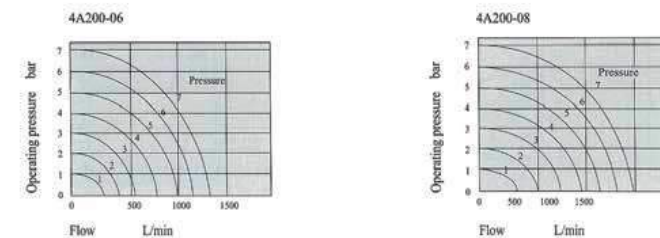
Model	4A210-06	4A220-06	4A230C-06	4A230E-06	4A230P-06	4A210-08	4A220-08	4A230C-08	4A230E-08	4A230P-08
Media	Air									
Action	Exterior control									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	14mm ² (Cv=0.78)		12mm ² (Cv=0.67)			16mm ² (Cv=0.89)		12mm ² (Cv=0.67)		
Port size	In=Out=Exhaust=1/8					In=Out=1/4 " Exhaust=1/8 "				
Lubrication	Not required									
Pressure range	1.5~8bar(1.5~8Kg/cm ²)									
Proof pressure	12bar(12Kg/cm ²)									
Temp. Range	-5~60°C(23~140° F)									
Max.frequency	5 cycles/per sec.		3 cycles/per sec.			5 cycles/per sec.		3 cycles/per sec.		
Weight	220g	320g	400g	400g	400g	220g	320g	400g	400g	400g

Ordering code



* Note: Please refer page 26-27 for manifold type and ordering.

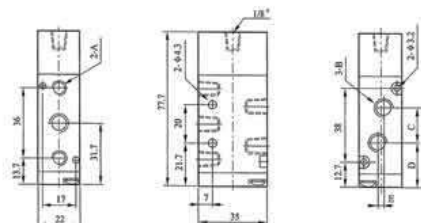
Flow chart



4A 200 Series

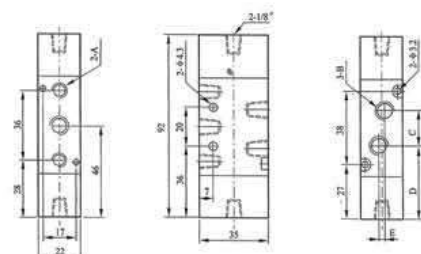
Dimensions

4A 210



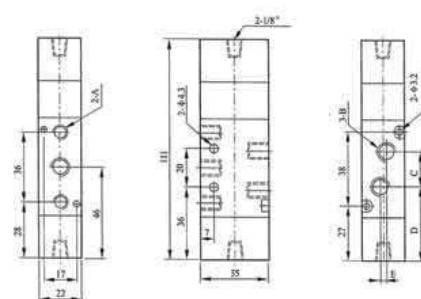
Item/Model	4A210-06	4A210-08
A	1/8 "	1/8 "
B	1/8 "	1/4 "
C	18	21
D	22.7	21.7
E	0	3

4V 220



Item/Model	4A210-06	4A220-08
A	1/8 "	1/8 "
B	1/8 "	1/4 "
C	18	21
D	37	35.5
E	0	3

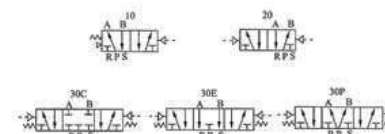
4V 230



Item/Model	4A230-06	4A230-08
A	1/8 "	1/8 "
B	1/8 "	1/4 "
C	18	21
D	37	35.5
E	0	3

4A 300 Series

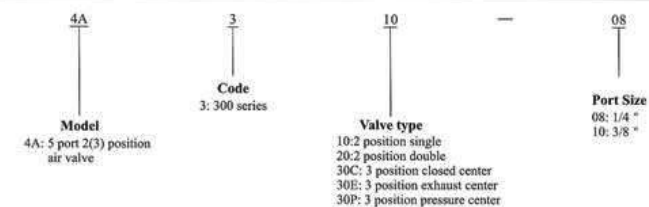
Symbol



Specification

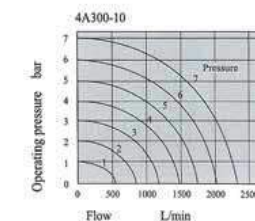
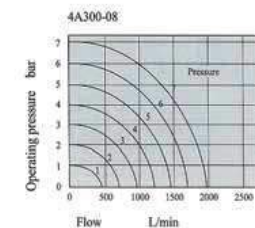
Model	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Media	Air									
Action	Exterior control									
Type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	25mm ² (Cv=1.39)		18mm ² (Cv=1.00)			30mm ² (Cv=1.67)		18mm ² (Cv=1.00)		
Port size	In=Out=Exhaust=1/4 "					In=Out=3/8 " Exhaust=1/4 "				
Lubrication	Not required									
Pressure range	1.5~8bar(1.5~8Kg/cm ²)									
Proof pressure	12bar(12Kg/cm ²)									
Temp. Range	-5~60°C(23~140° F)									
Max. frequency	4 cycles/per sec.		3 cycles/per sec.			4 cycles/per sec.		3 cycles/per sec.		
Weight	310g	400g	540g	540g	540g	310g	400g	540g	540g	540g

Ordering code



* Note: Please refer page 26-27 for manifold type and ordering.

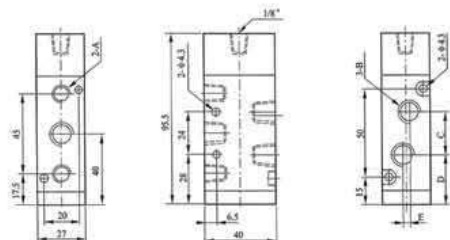
Flow chart



4A 300 Series

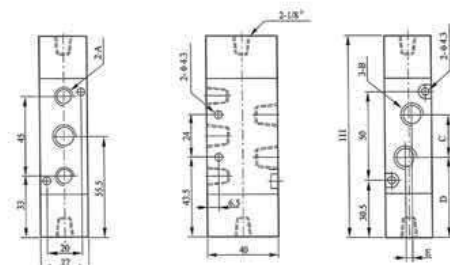
Dimensions

4A 310



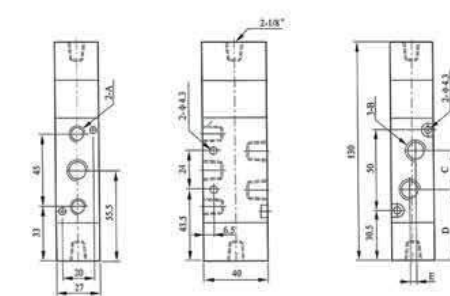
Item/Model	4A310-08	4A310-10
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	22
D	29	29
E	0	4

4A 320



Item/Model	4A320-08	4A320-10
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	24
D	44.5	43.5
E	0	4

4A 330

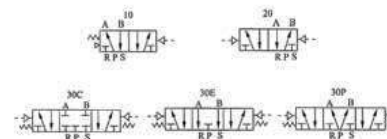


Item/Model	4A330-08	4A330-10
A	1/4 "	1/4 "
B	1/4 "	3/8 "
C	22	21
D	44.5	43.5
E	0	4

Air valve (5/2 5/3 way)

4A 400 Series

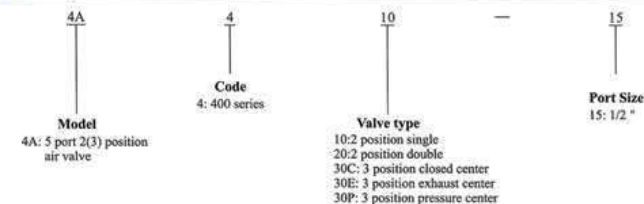
Symbol



Specification

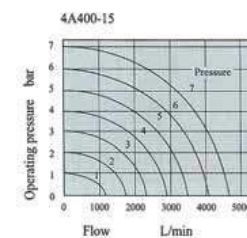
Model	4A410-15	4A420-15	4A430C-15	4A430E-15	4A430P-15
Media	Air				
Action	Exterior control				
Type	5 port 2 position		5 port 2 position		
Orifice size	50mm ² (Cv=2.97)		30mm ² (Cv=1.67)		
Port size	In=Out=Exhaust=1/4 "		In=Out=Exhaust=1/2 "		
Lubrication	Not required				
Pressure range	1.5~8bar(1.5~8Kg/f/cm ²)				
Proof pressure	12bar(12Kg/f/cm ²)				
Temp. Range	-5~60°C(23~140° F)				
Max.frequency	3 cycles/per sec.				
Weight	590g	770g	770g	770g	770g

Ordering code



* Note: Please refer page 26-27 for manifold type and ordering.

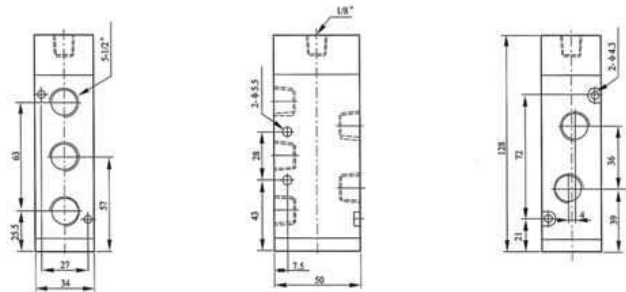
Flow chart



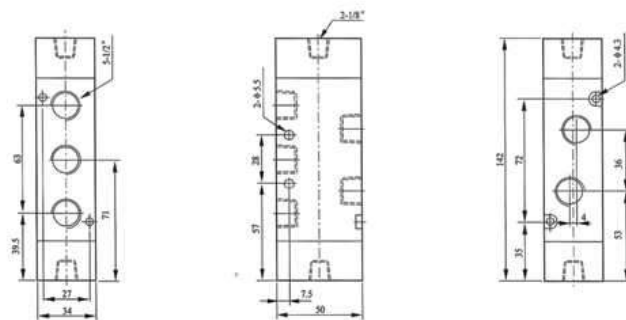
4A 400 Series

Dimensions

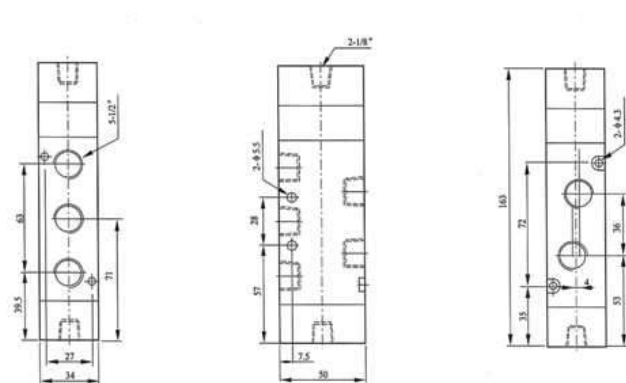
4A 410



4A 420



4A 430



Mainfold

Ordering code

100M	15
Model	Number of stations
100M:100 Series manifold	100M:1-16 Stations
200M:200 Series manifold	200M:1-16 Stations
300M:300 Series manifold	300M:1-12 Stations
400M:400 Series manifold	400M:1-7 Stations

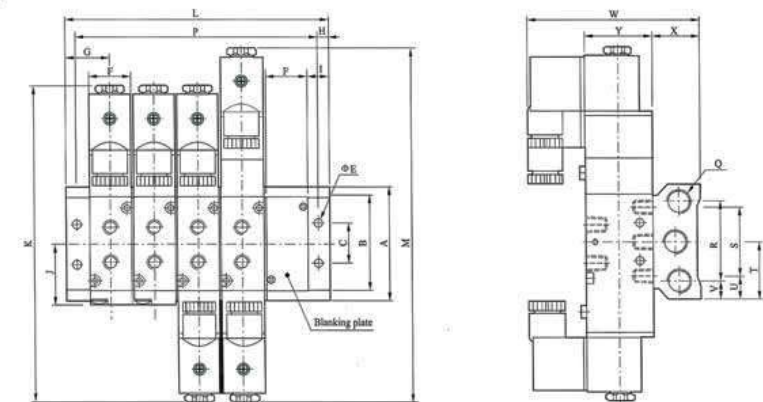


Manifold for choosing list

Manifold/Valve type	4V100	4A100	4V200	4A200	4V300	4A300	4V400	4A400
100M								
200M								
300M								
400M								

Dimension

4V Series

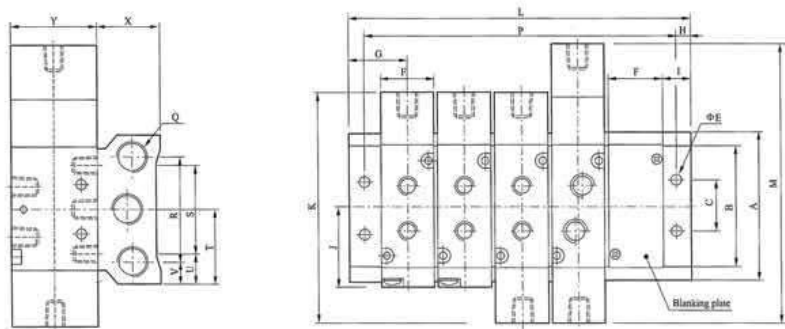


Type/Item	A	B	C	E	F	G	H	I	J	K	L	1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F
100M□F	58	42.3	20	4.5	18.3	19	5	10	28.2	139.4	38	57	76	95	114	133	152	171	190	209	228	247	266	285	304	323	
200M□F	61	50.7	21	4.5	22.4	23	6	12	31.7	170	46	69	92	115	138	161	184	207	230	253	276	299	322	345	368	391	
300M□F	75	64.8	26	4.5	27.3	27	6	13.5	40	188.8	54	82	110	138	166	194	222	250	278	306	334	362	-	-	-	-	
400M□F	104	94.5	32	5.5	34.3	31.5	7	14.5	57	221.8	63	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-	

Mainifold

Type/Item	M	L																Q	R	S	T	U	V	W	X	Y
		1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F									
100M□F	154.5	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313	1/4 *	40	30	29	14	9	79	25	27
200M□F	189	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379	1/4 *	43	32	30.5	14.5	9	93	26	35
300M□F	208	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	3/8 *	53	48	37.5	13.5	11	99.5	30	40
400M□F	243	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	1/2 *	68	62	52	18.5	18	112.5	38	50

4A Series

[illegible]

Type/Item	M	L																Q	R	S	T	U	V	X	Y
		1F	2F	3F	4F	5F	6F	7F	8F	9F	10F	11F	12F	13F	14F	15F	16F								
100M□F	96	28	47	66	85	104	123	142	161	180	199	218	237	256	275	294	313	1/4 "	40	30	29	14	9	25	27
200M□F	111	34	57	80	103	126	149	172	195	218	241	264	287	310	333	356	379	1/4 "	43	32	30.5	14.5	9	26	35
300M□F	130	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	3/8 "	53	48	57.5	13.5	11	30	40
400M□F	163	57	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	1/2 "	68	67	82	18	18	38	50

Ordering code for blanding plat



4H Series



Symbol



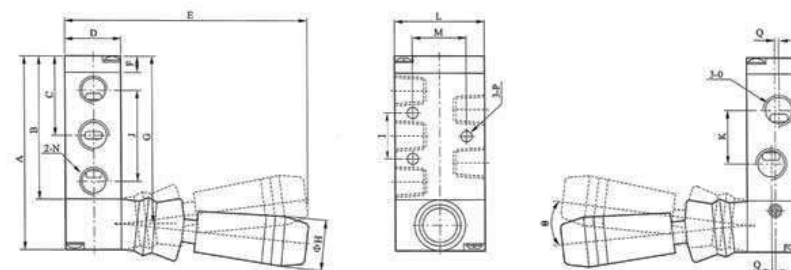
Specification

4H	2	10	06
Model	Code	Valve type	Port size
4H: 5 port 2 position hand lever valve	2: 200 Series 3: 300 Series	10: 2 position	06: 1/8" 08: 1/4" 10: 3/8"

Specification

Model	4H210-06	4H210-08	4H310-08	4H310-10
Media	Air			
Operating	Direct acting			
Orifice size	14mm ² (Cv=0.78)	16mm ² (Cv=0.89)	25mm ² (Cv=1.39)	30mm ² (Cv=1.67)
Port size	In=Out=1/8 " Exhaust=1/8 "	In=Out=1/4 " Exhaust=1/8 "	In=Out=1/4 " Exhaust=1/4 "	In=Out=3/8 " Exhaust=1/4 "
Pressure range	0~8bar (0~8Kgf/cm ²)			
Temp. Range	-5~60℃			
Lubrication	Not required			
Operating angle	±15°			

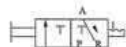
Dimensions



Type/Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	θ
4H210-06	76.7	56.5	31.5	22	95	6.5	66.5	Φ19	20	36	18	35	23.5	1/8"	1/8"	Φ4.3	-	15.8
4H210-08	76.7	56.5	31.5	22	95	6.5	66.5	Φ19	20	36	21	35	23.5	1/8"	1/8"	Φ4.3	15	15.8
4H310-08	92.5	72.5	40	27	100	7.5	82.5	Φ19	24	45	22	40	27.5	1/4"	1/4"	Φ4.3	-	17.5
4H310-10	92.5	72.5	40	27	100	7.5	82.5	Φ19	24	45	24	40	27.5	1/4"	3/8"	Φ4.3	2	17.5

3L Series

Symbol

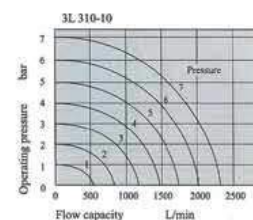
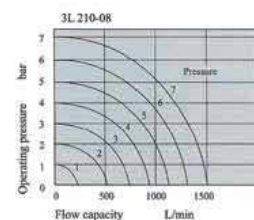
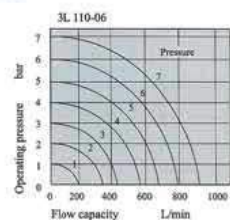


Specification

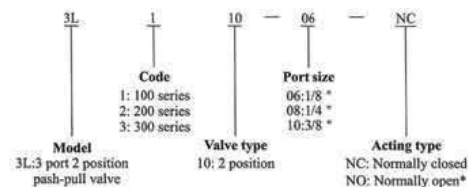
Model	3L110-06	3L210-06	3L210-08	3L310-08	3L310-10
Media	Air				
Type	3 port 2 position				
Port size	1/8"	1/4"		3/8"	
Orifice size mm ² (Cv)	12(0.67)	14(0.78)	16(0.89)	25(1.39)	30(1.67)
Pressure range	0~8bar (0~8Kgf/cm ²)				
Proof pressure	12bar (12Kgf/cm ²)				
Temp. Range	-5~60°C				



Flow chart

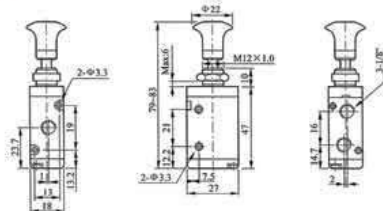


Ordering code

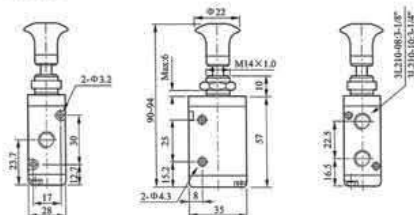


Dimension

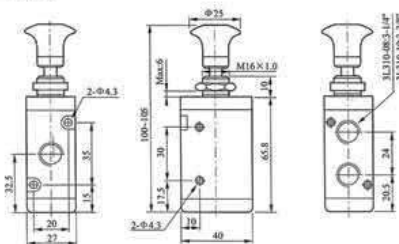
3L110



3L210



3L310



4L Series

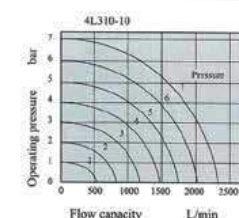
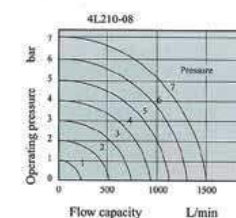
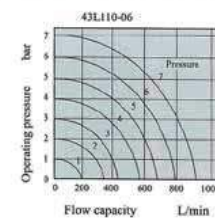
Symbol



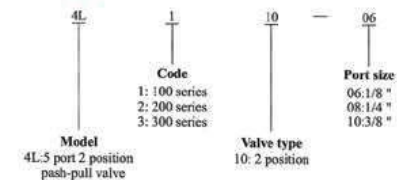
Specification

Model	4L110-06	4L210-06	4L210-08	4L310-08	4L310-10
Media	Air				
Type	5 port 2 position				
Port size	1/8"	1/4"		3/8"	
Orifice size mm ² (Cv)	12(0.67)	14(0.78)	16(0.89)	25(1.39)	30(1.67)
Pressure range	0~8bar (0~8Kgf/cm ²)				
Proof pressure	12bar (12Kgf/cm ²)				
Temp. Range	-5~60°C				

Flow chart

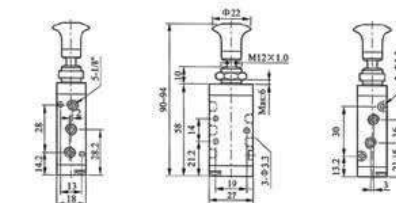


Ordering code

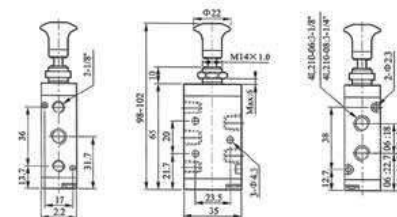


Dimension

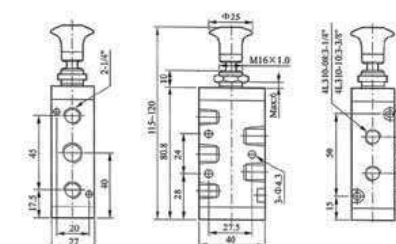
4L110



4L210



4L310





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