

SOLENOID VALVE(2/2 WAY)

2P SERIES

AirTAC

Symbol



Ordering code

2P	025	06	AC220V
Model	Orifice size	Port size	Voltage
2P: 2 port 2 position solenoid valve (plastic steel type)	025: 2.5mm	06: BSPP1/8 08: BSPP1/4	DC12V DC24V AC220V 50Hz

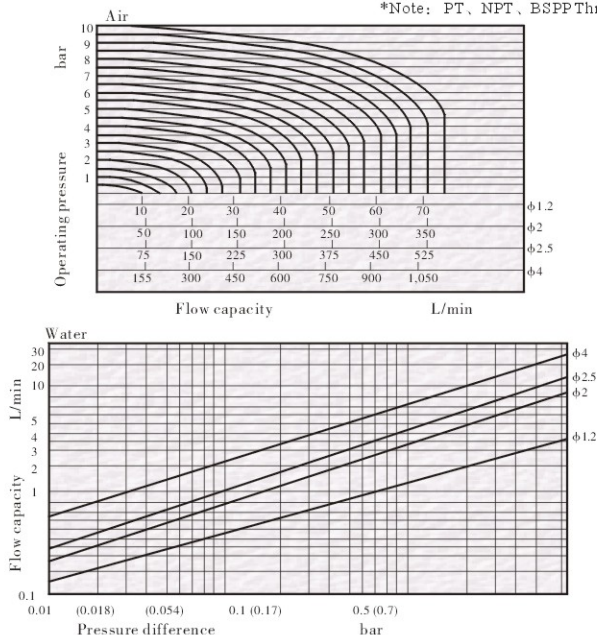
Note: Please consult us for other voltage.

Specification

Model	2P025-06	2P025-08
Fluid	Air, Water, Oil	
Acting	Direct acting	
Type	Normally closed	
Orifice size	mm 2.5	
Cv Value	0.23	
Port size	BSPP1/8	BSPP1/4
Viscosity limit	Under 20CST	
Operating pressure	0~7 bar (0~0.7 MPa)(0~100Psi)	
Proof pressure	10.5 bar (1.05 MPa)(149Psi)	
Temperature	℃ -5~80	
Voltage range	± 10%	
Power consumption	AC: 9VA	DC: 6W
Material of body	Plastic steel	
Seal material	VITON	

Flow chart

*Note: PT, NPT, BSPP Thread are available.

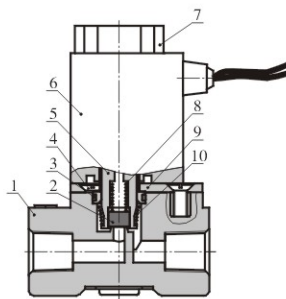


SOLENOID VALVE(2/2 WAY)

2P SERIES

Airtac

Inner structure

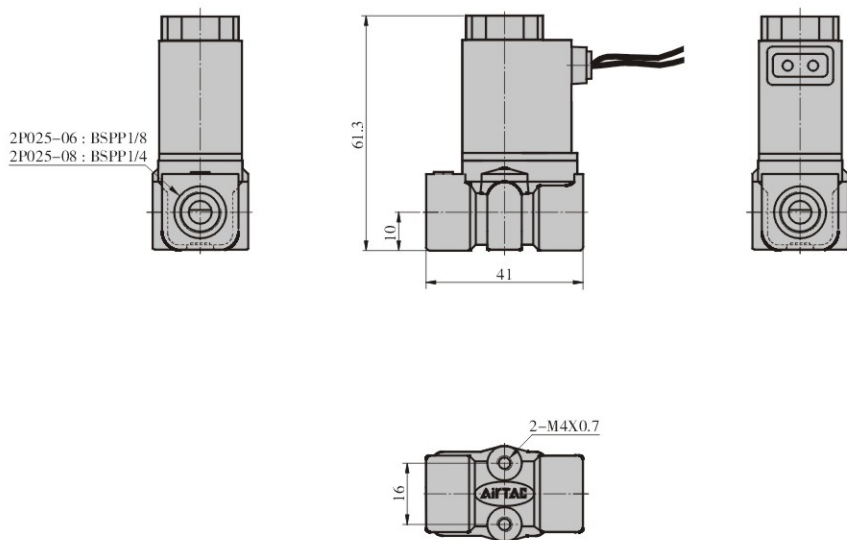


NO.	Item	NO.	Item
1	Body	2	Gasket
3	O-ring	4	Screw
5	Armature assembly	6	Coil
7	Coil nut	8	Spring
9	Fixing block	10	Spring

Material of major parts

Item	2P025-06	2P025-08	Item	2P025-06	2P025-08
Body	Plastic steel		Nut	Plastic steel	
Wire black	PC		Coil	Copper wire	
Armature assembly	Stainless steel		Coil cover	Copper wire with resin covered	
Diaphragm	NBR				

Dimensions

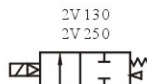
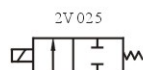


SOLENOID VALVE(2/2 WAY)

2V SERIES

AirTAC

Symbol



Specification

Model	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Fluid	Air, Water, Oil					
Acting	Direct acting		Internally pilot acting			
Type	Normally closed					
Orifice size mm	2.5		13		25	
Cv Value	0.23		6.2		23	
Port size	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Viscosity limit	Under 20CST					
Operating pressure	0~10 bar (0~1.0 MPa)(0~142Psi)		0.5~10 bar (0.05~1.0 MPa)(7~142Psi)			
Proof pressure	15.0bar (1.5MPa)(213Psi)					
Temperature °C	-10~80					
Voltage range	AC: -20%~+10% DC: -15%~+10%					
Protect	IP65					
Power consumption	AC220v: 4.5VA DC24V: 5.0W					
Insulation	B Class					
Material of body	Brass with zinc plated		Brass			
Seal material	VITON		NBR			
Min.actuating time sec	0.05					

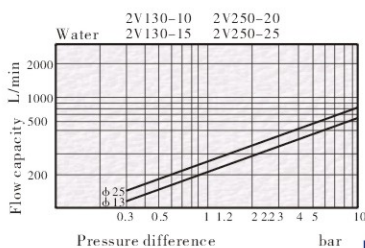
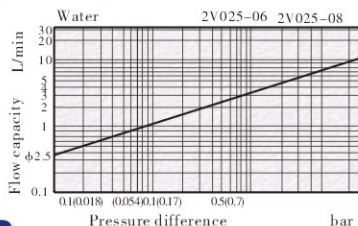
*Note: PT, NPT, BSP Thread are available.

Ordering code

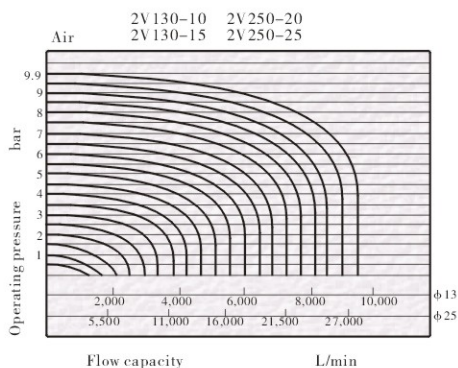
2V	025	—	06	—	AC110V
Model	Orifice size		Port size		Voltage
2V: 2 port 2 position solenoid valve (DIN socket type)	025: 2.5mm 130: 13mm 250: 25mm		06: 1/8" 08: 1/4" 10: 3/8" 15: 1/2" 20: 3/4" 25: 1"		DC12V DC24V AC110V 50Hz AC220V 50Hz

Note: Please consult us for other voltage.

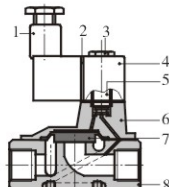
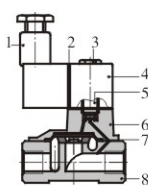
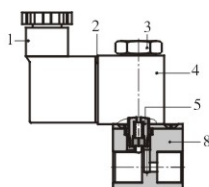
Flow chart



AirTAC



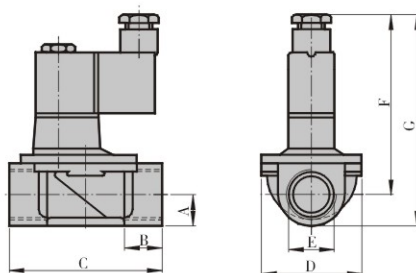
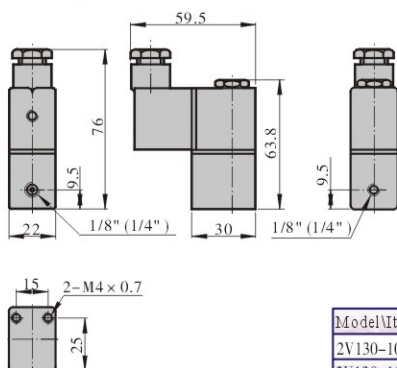
2V250



NO.	Item	NO.	Item
1	Connector	2	Connector gasket
3	Nut	4	Coil
5	Annature assembly	6	Body cover
7	Diaphragm	8	body

Item\Model	2V025	2V130	2V250	Item\Model	2V025	2V130	2V250
Body		Brass		Armature assembly		Pure iron with copper tube	
Body cover	—	Brass		Diaphragm		BBR	
Connector		PM		Nut		Copper with nickel plated	
Connector gasket		BBR		Coil		Copper wire with resin covered	

2V250



Model/Item	A	B	C	D	E	F	G
2V130-10	15	18.5	72	49	3/8"	87.5	102.5
2V130-15	15	18.5	72	49	1/2"	87.5	102.5
2V250-20	21	23	102	73.4	3/4"	98	119
2V250-25	21	23	102	73.4	1"	98	119



SOLENOID VALVE(3/2 WAY DIRECT ACTING)

3V1 SERIES

AIRTAC



■ Specification

Model	3V1-M5	3V1-06
Fluid	Air (to be filtered by 40 μ filter element)	
Acting	Direct acting, normally closed	
Port size	M5	1/8"
Valve type	3 port 2 position	
Temperature	-5~60°C (23~140°F)	
Orifice size	1.2mm	
Lubrication	Not required	
Operating pressure	0~8.0 bar (0~0.8MPa)(0~114Psi)	
Power consumption	AC: 3.5VA	DC: 2.5W
Protection	IP65 (DIN40050)	
Connection	DIN Terminal or Grommet	
Material of body	Aluminum alloy	
Max. frequency	10 cycle/sec	
Insulation	B class	
Voltage range	-15% ~ +10%	
Min. activate time	0.05 sec	

*Note: PT、NPT、BSPP Thread are available.

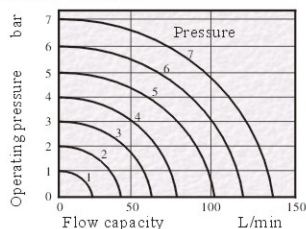
■ Symbol



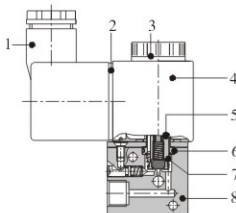
■ Ordering code

Model	Code	Port size	Voltage	Electrical entry
3V: 3 port 2 position solenoid valve	1: 1 Series	M5: M5 06: 1/8"	DC12V DC24V AC24V 50Hz AC110V 50Hz AC220V 50Hz	Blank: Terminal I: Grommet

■ Flow chart



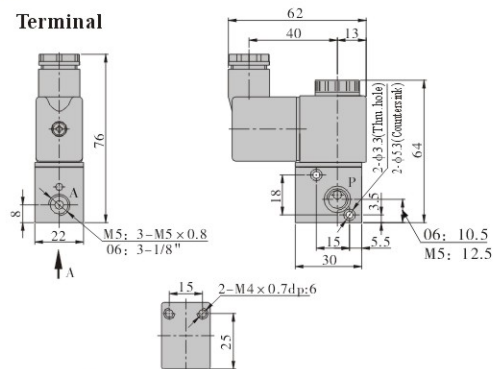
■ Inner structure



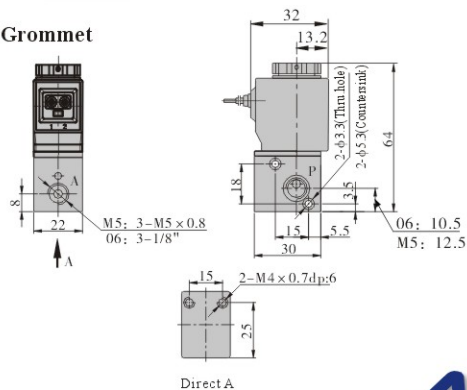
NO.	Item
1	Connector
2	Gasket
3	Coil nut
4	Coil
5	Armature
6	O-ring
7	Return spring
8	Body

■ Dimensions

Terminal



Grommet



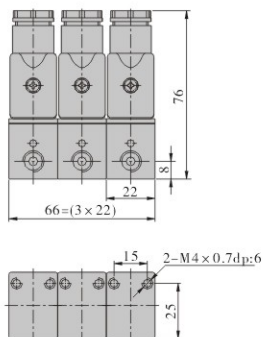
SOLENOID VALVE(3/2 WAY)

3V1 SERIES

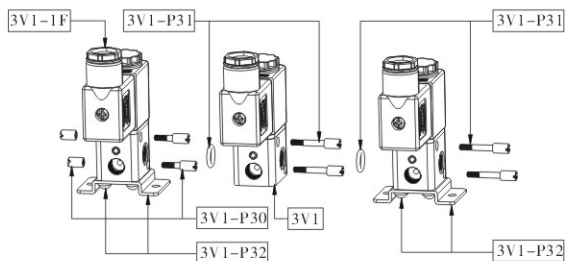
AIRTAC

Series connection

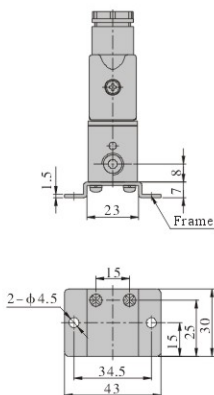
Dimensions



How to Joint



Mounting bracket



Ordering code for series

Model	Voltage	Electrical entry	Number of stations
3V1 — 06 — AC110V — □ — 3F	DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz	Blank: Terminal I: Grommet	1F: 1 Station 2F: 2 Stations 3F: 3 Stations 20F: 20 Stations
Port size M5: M5 06: PT1/8			

The above codes have include the serial accessories, so it is unnecessary to order the accessories specially. But if you like, you could order as below:

Ordering code for Accessories

Code	Accessory name	Part code	Part name	QTY
3V1-P30	Coupling screw assembly	F-3V1002N	Coupling screw(S)	2
		F-3V1003N	Coupling screw(M)	2
3V1-P31	Coupling screw assembly	GOR2000SN75	O-ring	1
		F-3V1004N	Coupling screw(L)	2
3V1-P32	Bracket assembly	F-3V1001N	Fixed mounting	1
		G8DA04008WA	Cross cheese head screw	2

Product structure

Connection Amount/QTY	3V1	3V1-P30	3V1-P31	3V1-P32
3V1-□-□-1F	1	0	0	1
3V1-□-□-2F	2	1	1	1
3V1-□-□-2F	n	1	n-1	2

Note: n is the number of Junction Valve, and n ≥ 3



SOLENOID VALVE(3/2 WAY)

3V100 SERIES

AIRTAC

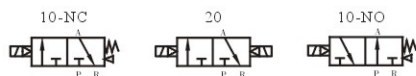


■ Specification

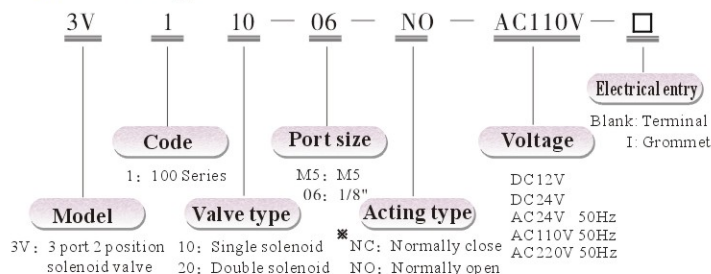
Model	3V110-M5	3V120-M5	3V110-06	3V120-06
Fluid	Air (to be filtered by 40 μ filter element)			
Acting	Internally piloted			
Port size	In=Out=M5		In=Out=1/8"	
Valve type	3 port 2 position			
Temperature	-5~60℃ (23~140℉)			
Orifice size	5.5mm ² (Cv=0.31)		12mm ² (Cv=0.67)	
Lubrication	Not required			
Operating pressure	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)			
Proof pressure	12.0 bar (1.2MPa)(170Psi)			
Power consumption	AC: 2.5VA		DC: 2.5W	
Protection	IP65 (DIN40050)			
Connection	DIN Terminal or Grommet			
Material of body	Aluminum alloy			
Max. frequency	5 cycle/sec			
Insulation	B class			
Voltage range	-15%~+10%			
Min. activate time	0.05 sec			

*Note: PT, NPT, BSPP Thread are available.

■ Symbol

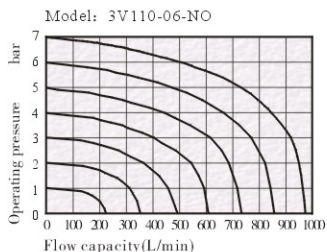


■ Ordering code



* Only single solenoid type has this specification.

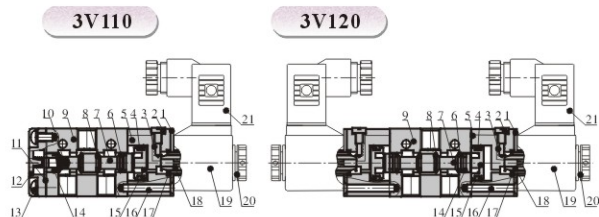
■ Flow chart



■ Material of major parts

Model	3V110	3V120
Body	Aluminum alloy	
Spool	Aluminum alloy	
Override O-ring	NBR	
Connector gasket	NBR	
Spool packing	HNBR	
Bottom cover gasket	NBR	-
Pilot O-ring	NBR	
Pilot body	Plastic	
Piston	POM	
Manual override	Iron	
Fixed plate	Steel with nickel plated	
Coil nut	Plastic	
Bottom cover	Zinc alloy	-
Override spring	Stainless steel	
Spool spring	Stainless steel	
Screw	Carbon steel	
Solenoid lining	Copper	
Armature	Pure iron	
Copper cover	Bronze	
Connector	Plastic	

■ Inner structure



NO.	Item	NO.	Item	NO.	Item
1	Fixed plate	8	Spool O-ring	15	Piston
2	Manual override	9	Body	16	Pilot screw
3	Override spring	10	Spool spring	17	Armature 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	Wearing ring	21	Connector

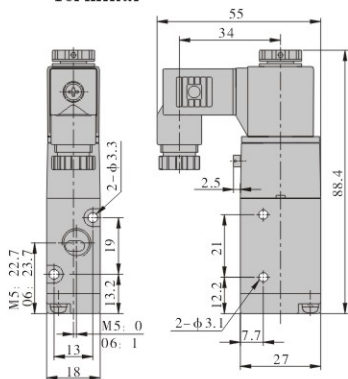


3V100 SERIES

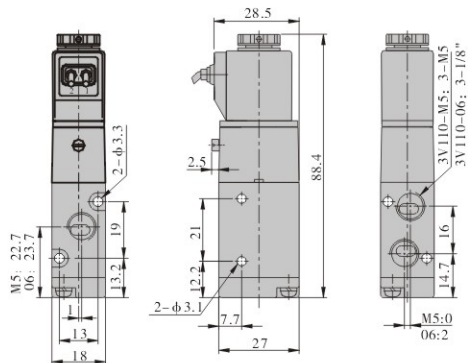
■ Dimensions

3V110

Terminal

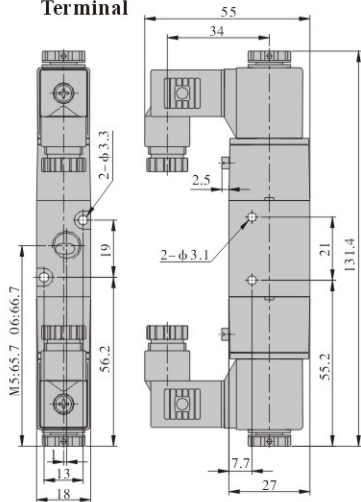


Grommet

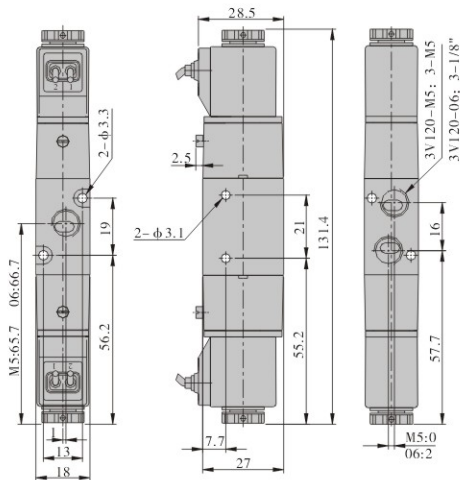


3V120

Terminal



Grommet



SOLENOID VALVE(3/2 WAY)

3V200 SERIES

AIRTAC

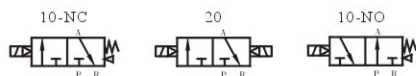


■ Specification

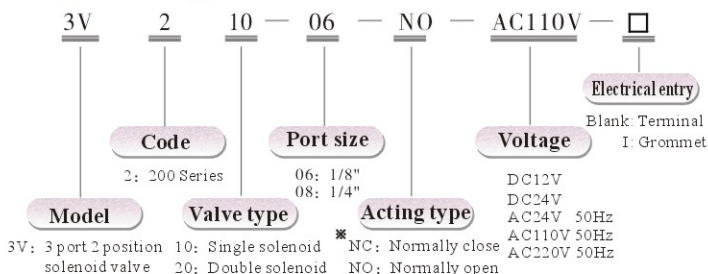
Model	3V210-06	3V220-06	3V210-08	3V220-08
Fluid	Air (to be filtered by 40μ filter element)			
Acting	Internally piloted			
Port size	In=Out=1/8"		In=Out=1/4"	
Valve type	3 port 2 position			
Temperature	-5~60℃ (23~140℉)			
Orifice size	14mm ² (Cv=0.78)		16mm ² (Cv=0.89)	
Lubrication	Not required			
Operating pressure	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)			
Proof pressure	12.0 bar (1.2MPa)(170Psi)			
Power consumption	AC: 3.5VA DC: 2.5W			
Protection	IP65 (DIN40050)			
Connection	DIN Terminal or Grommet			
Material of body	Aluminum alloy			
Max.frequency	5 cycle/sec			
Insulation	B class			
Voltage range	-15%~+10%			
Min. activate time	0.05 sec			

*Note: PT, NPT, BSP Thread are available.

■ Symbol

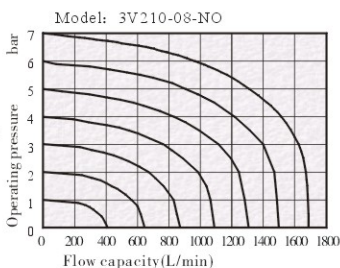


■ Ordering code



* Only single solenoid type has this specification.

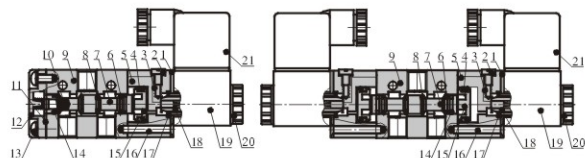
■ Flow chart



■ Inner structure

3V210

3V220



NO.	Item	NO.	Item	NO.	Item
1	Fixed plate	8	Spool O-ring	15	Piston
2	Manual override	9	Body	16	Pilot screw
3	Override spring	10	Spool spring	17	Armature 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	Wearing ring	21	Connector

■ Material of major parts

Model	3V210	3V220
Body	Aluminum alloy	
Spool	Aluminum alloy	
Override O-ring	NBR	
Connector gasket	NBR	
Spool packing	HNBR	
Bottom cover gasket	NBR	-
Pilot O-ring	NBR	
Pilot body	Plastic	
Piston	Plastic	
Manual override	Plastic	
Fixed plate	Steel with nickel plated	
Coil nut	Plastic	
Bottom cover	Zinc alloy	-
Override spring	Stainless steel	
Spool spring	Stainless steel	
Screw	Carbon steel	
Solenoid lining	Copper	
Armature	Pure iron	
Copper cover	Bronze	
Connector	Plastic	



SOLENOID VALVE(3/2 WAY)

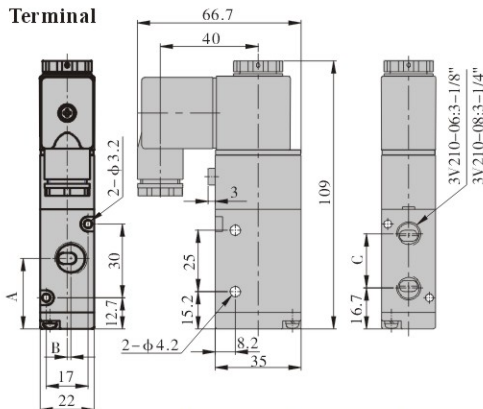
3V200 SERIES

AirTAC

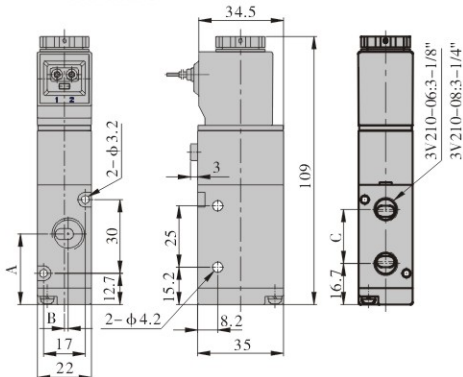
■ Dimensions

3V210

Terminal



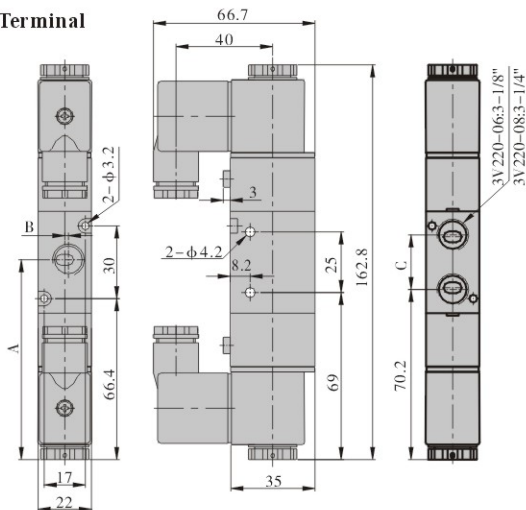
Grommet



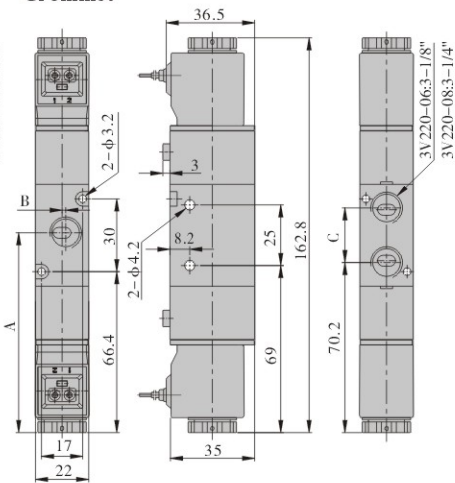
Item\Model	3V210-06	3V210-08
A	27.7	28.7
B	0	1.5
C	22	22.5

3V220

Terminal



Grommet



Item\Model	3V220-06	3V220-08
A	81.4	82.4
B	0	1.5
C	22	22.5



SOLENOID VALVE(3/2 WAY)

3V300 SERIES

AIRTAC

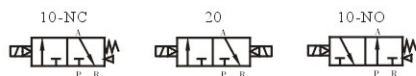


■ Specification

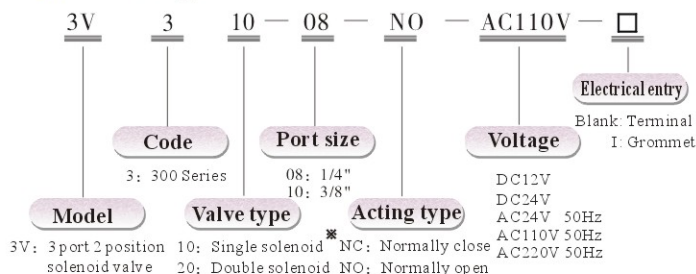
Model	3V 310-08	3V 320-08	3V 310-10	3V 320-10
Fluid	Air (to be filtered by 40 μ filter element)			
Acting	Internally piloted			
Port size	In=Out=1/4"		In=Out=3/8"	
Valve type	3 port 2 position			
Temperature	-5~60℃ (23~140℉)			
Orifice size	25mm ² (Cy=1.39)		30mm ² (Cy=1.67)	
Lubrication	Not required			
Operating pressure	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)			
Proof pressure	12.0 bar (1.2MPa)(170Psi)			
Power consumption	AC: 3.5VA DC: 2.5W			
Protection	IP65 (DIN40050)			
Connection	DIN Terminal or Grommet			
Material of body	Aluminum alloy			
Max.frequency	5 cycle/sec			
Insulation	B class			
Voltage range	-15%~+10%			
Min. activate time	0.05 sec			

*Note: PT, NPT, BSP Thread are available.

■ Symbol

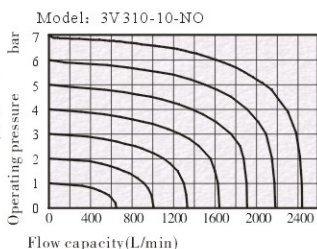


■ Ordering code

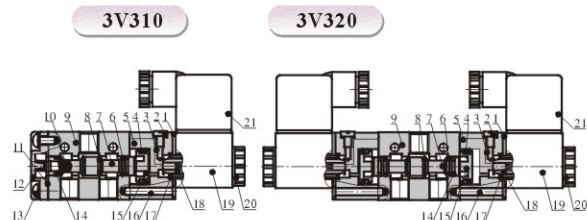


* Only single solenoid type has this specification.

■ Flow chart



■ Inner structure



NO.	Item	NO.	Item	NO.	Item
1	Fixed plate	8	Spool O-ring	15	Piston
2	Manual override	9	Body	16	Pilot screw
3	Override spring	10	Spool spring	17	Armature 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	Wearing ring	21	Connector

■ Material of major parts

Model	3V310	3V320
Body	Aluminum alloy	
Spool	Aluminum alloy	
Override O-ring	NBR	
Connector gasket	NBR	
Spool packing	HNBR	
Bottom cover gasket	NBR	-
Pilot O-ring	NBR	
Pilot body	Plastic	
Piston	Plastic	
Manual override	Plastic	
Fixed plate	Steel with nickel plated	
Coil nut	Plastic	
Bottom cover	Zinc alloy	-
Override spring	Stainless steel	
Spool spring	Stainless steel	
Screw	Carbon steel	
Solenoid lining	Copper	
Armature	Pure iron	
Copper cover	Bronze	
Connector	Plastic	



SOLENOID VALVE(3/2 WAY)

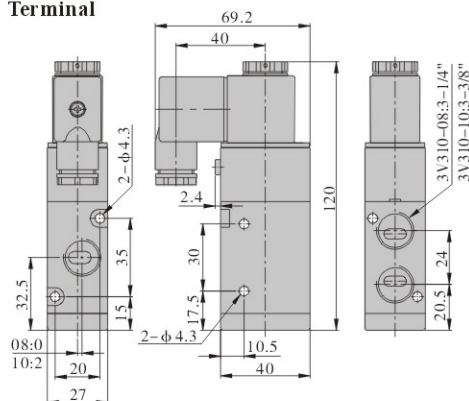
3V300 SERIES

AirTAC

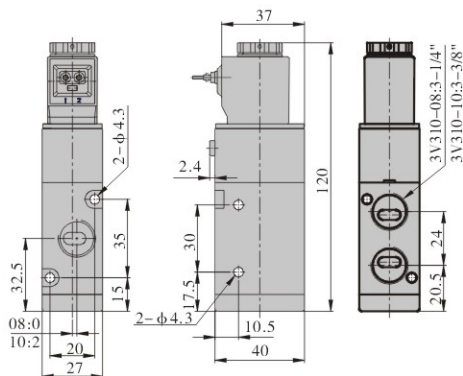
■ Dimensions

3V310

Terminal

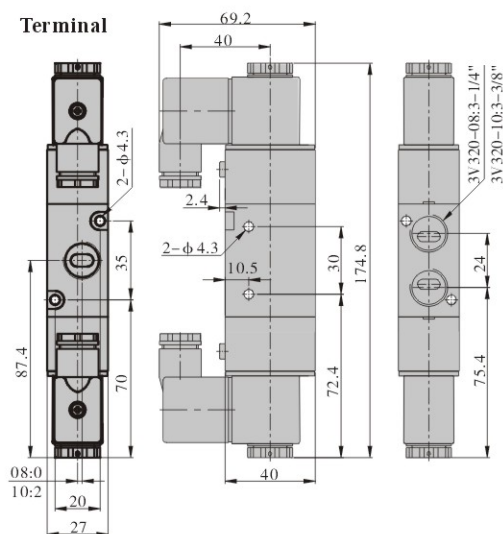


Grommet

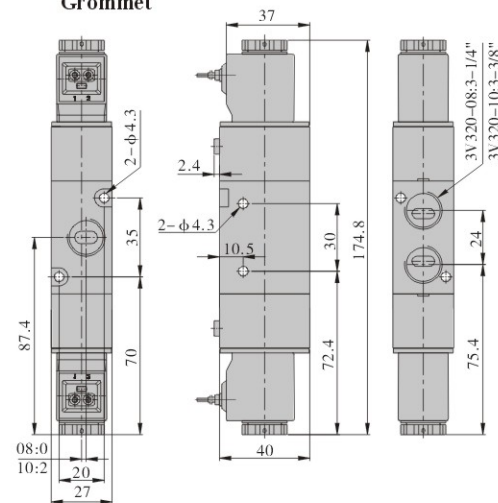


3V320

Terminal



Grommet



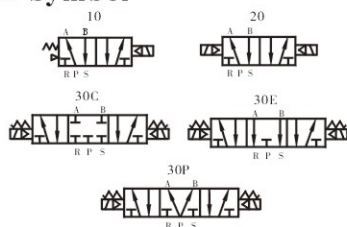
SOLENOID VALVE(5/2 5/3 WAY)

4V100 SERIES

Airtac



Symbol



Specification

Item/Type	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
Fluid	Air (to be filtered by 40 μ filter element)									
Operating	Internally piloted									
Valve 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	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)									
Proof pressure	12.0 bar (1.2MPa)(170Psi)									
Temperature	-5~60℃(23~140℉)									
Voltage range	-15%~+10%									
Power consumption	AC: 2.5VA DC: 2.5W									
Insulation	B class									
Protection	IP65 (DIN40050)									
Connector	DIN Terminal or Grommet									
Max frequency	5 cycle/sec		3 cycle/sec			5 cycle/sec		3 cycle/sec		
Min activating time	0.05 sec									
Weight	120g	175g	200g	200g	200g	120g	175g	200g	200g	200g

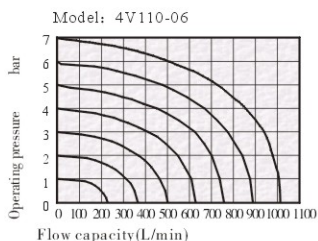
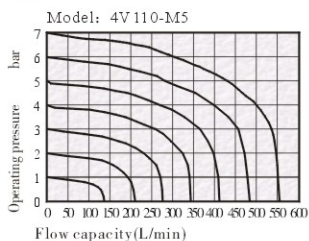
*Note: PT, NPT, BSP Thread are available.

Ordering code

4V	1	10	—	06	—	AC110V	—	
Model	Code	Valve type		Port size		Voltage		Electrical entry
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 x 0.8 06: 1/8"		DC12V DC24V AC24V 50Hz AC110V 50Hz AC220V 50Hz		Blank: Terminal I: Grommet

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

Flow chart



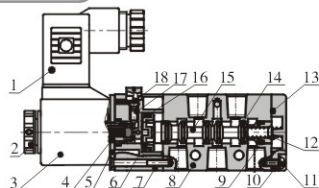
SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

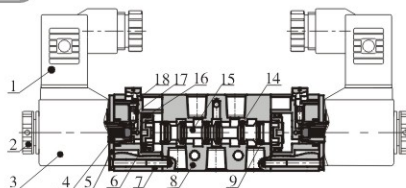
4V100 SERIES

Inner structure

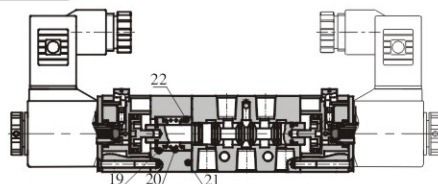
4V110



4V120



4V130C



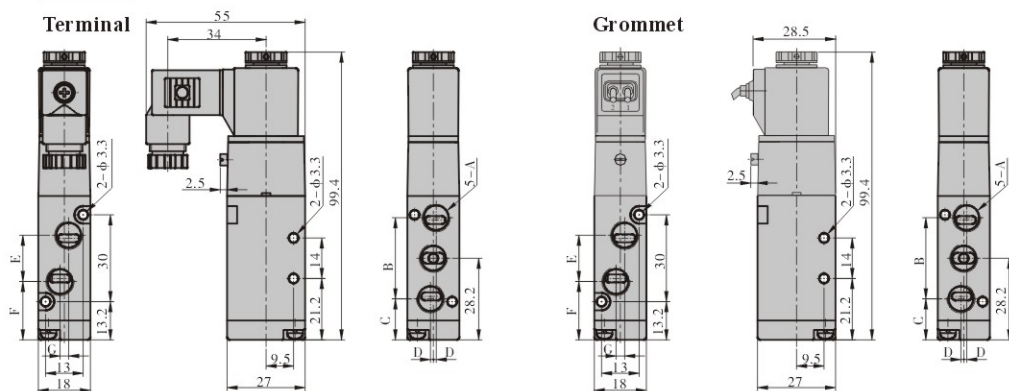
NO.	Item	NO.	Item
1	Connector	2	Nut
3	Coil	4	Armature assembly
5	Fixed plate	6	Piston
7	Pilot kit	8	Body
9	Wearing ring	10	Bottom cover
11	Fixed screw	12	Spool spring
13	Bottom cover gasket	14	Spool O-ring
15	Spool	16	Piston O-ring
17	Override spring	18	Manual override
19	Spring holder	20	Return spring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

Material of major parts

Item	4V110	4V120	4V130	Item	4V110	4V120	4V130	Item	4V110	4V120	4V130
Body	Aluminum alloy			Fixed plate	Steel with nickel plated			Manual override spring	Stainless steel		
Spool	Aluminum alloy			Nut	Plastic			Spool spring	Stainless steel		
Manual override O-ring	NBR			Manual override	Copper			Pilot body	Plastic		
Connector gasket	NBR			Bottom cover	Zinc alloy			Fixed screw	Plastic		
Spool O-ring	HNBR			Bottom cover gasket	NBR			Coil cover	Heat-resistant resin		
Return kit	-	Copper			NBR			Manifold	Aluminum alloy		
Side cover	-	Aluminum alloy			Plastic			Piston	Plastic		
Return spring	-	Stainless steel			Copper			Armature	Pure iron		

Dimensions

4V110



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



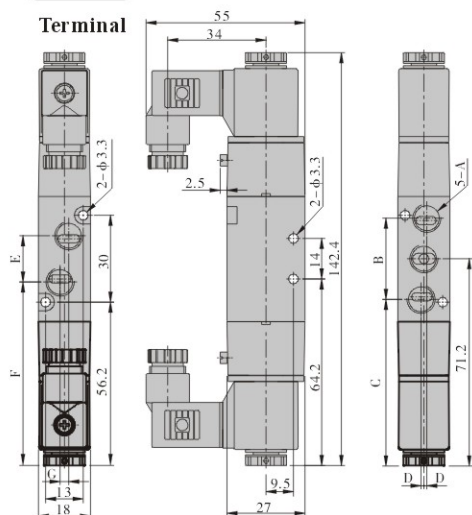
SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

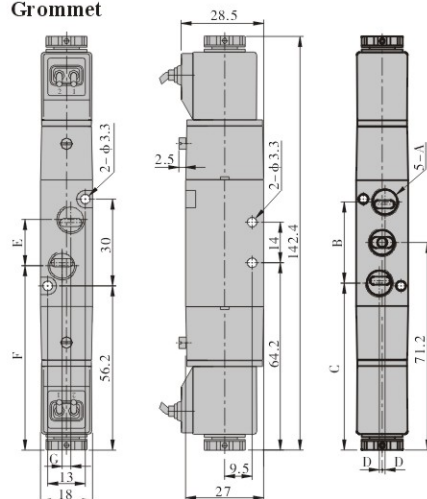
4V100 SERIES

4V120

Terminal



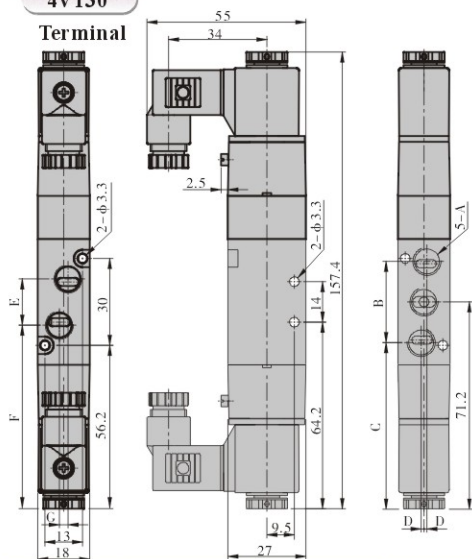
Grommet



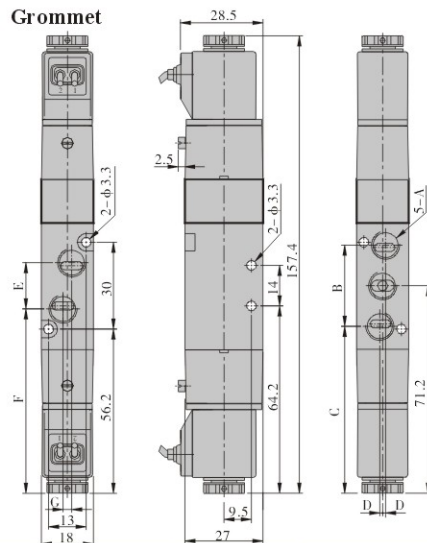
Model \ Item	A	B	C	D	E	F	G
4V120-M5	M5 × 0.8	27	57.7	0	14	64.3	0
4V120-06	1/8"	28	57.2	1	16	63.2	3

4V130

Terminal



Grommet



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

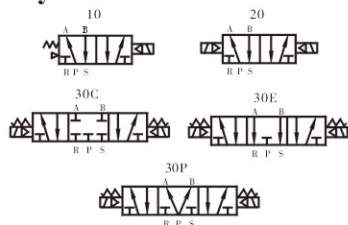


SOLENOID VALVE(5/2 5/3 WAY)

4V200 SERIES

AIRTAC

Symbol



Specification

Item/Type	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 40 μ filter element)									
Operating	Internally piloted									
Valve 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	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)									
Proof pressure	12.0 bar (1.2MPa)(170Psi)									
Temperature	-5~60℃(23~140℉)									
Voltage range	-15%~+10%									
Power consumption	AC: 3.5VA DC: 2.5W									
Insulation	B class									
Protection	IP65 (DIN40050)									
Connector	DIN Terminal or Grommet									
Max frequency	5 cycle/sec		3 cycle/sec			5 cycle/sec		3 cycle/sec		
Min activating time	0.05 sec									
Weight	220g	320g	400g	400g	400g	220g	320g	400g	400g	400g

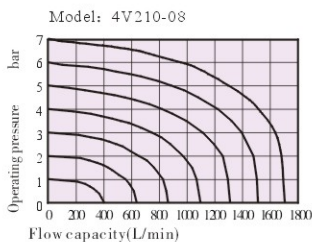
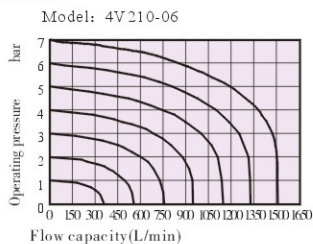
*Note: PT, NPT, BSPP Thread are available.

Ordering code

4V	2	10	—	08	—	AC110V	—	
Model	Code	Valve type		Port size	Voltage	Electrical entry		
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 50Hz AC110V 50Hz AC220V 50Hz	Blank: Terminal I: Grommet		

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

Flow chart



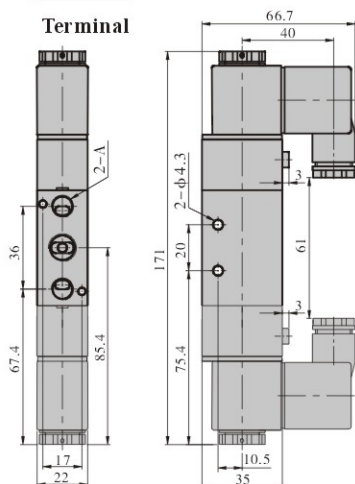
SOLENOID VALVE(5/2 5/3 WAY)

4V200 SERIES

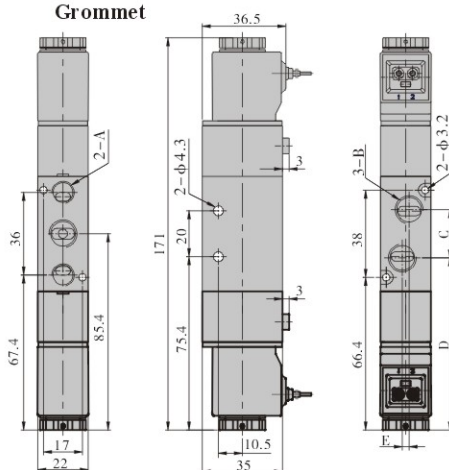
AIRTAC

4V220

Terminal



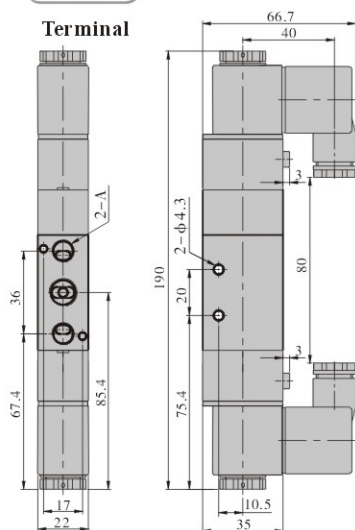
Grommet



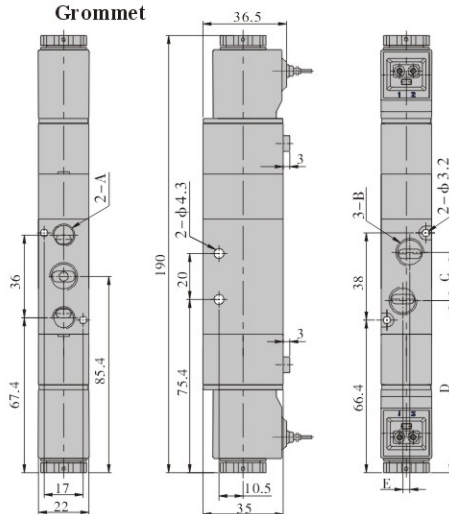
Model \ Item	A	B	C	D	E
4V220-06	1/8"	1/8"	18	76.4	0
4V220-08	1/8"	1/4"	21	74.9	3

4V230

Terminal



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



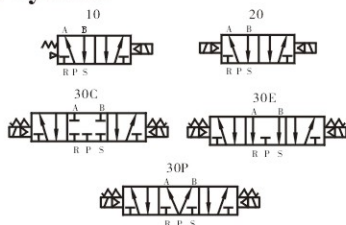
SOLENOID VALVE(5/2 5/3 WAY)

4V300 SERIES

Airtac



Symbol



Specification

Item/Type	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
Fluid	Air (to be filtered by 40 μ filter element)									
Operating	Internally piloted									
Valve type	5 port 2 position		5 port 3 position			5 port 2 position		5 port 3 position		
Orifice size	25mm ² (Cv=1.4)		18mm ² (Cv=1.00)			30mm ² (Cv=1.68)		18mm ² (Cv=1.00)		
Port size	In=Out=Exhaust=1/4"					In=Out=3/8" Exhaust=1/4"				
Lubrication	Not required									
Pressure range	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)									
Proof pressure	12.0 bar (1.2MPa)(170Psi)									
Temperature	-5~60℃(23~140℉)									
Voltage range	-15%~+10%									
Power consumption	AC: 3.5VA DC: 2.5W									
Insulation	B class									
Protection	IP65 (DIN40050)									
Connector	DIN Terminal or Grommet									
Max frequency	4 cycle/sec		3 cycle/sec			4 cycle/sec		3 cycle/sec		
Min activating time	0.05 sec									
Weight	310g	400g	540g	540g	540g	310g	400g	540g	540g	540g

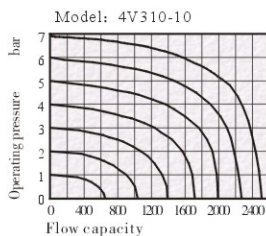
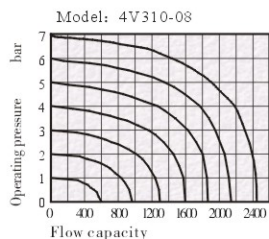
*Note: PT, NPT, BSP Thread are available.

Ordering code

4V	3	10	—	08	—	AC110V	—	☐
Model	Code	Valve type		Port size		Voltage		Electrical entry
4V: 5 port 2 (3) position solenoid valve	3: 300 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		08: 1/4" 10: 3/8"		DC12V DC24V AC24V 50Hz AC110V 50Hz AC220V 50Hz		Blank: Terminal I: Grommet

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

Flow chart



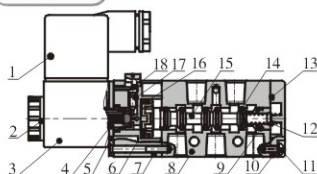
SOLENOID VALVE(5/2 5/3 WAY)

AirTAC

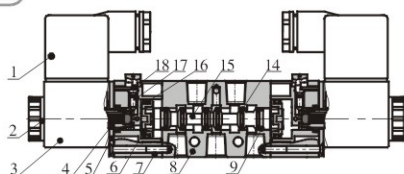
4V300 SERIES

Inner structure

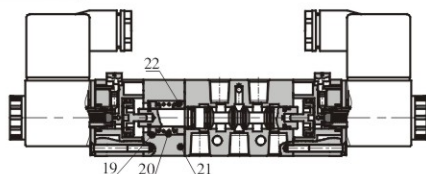
4V310



4V320



4V330C



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

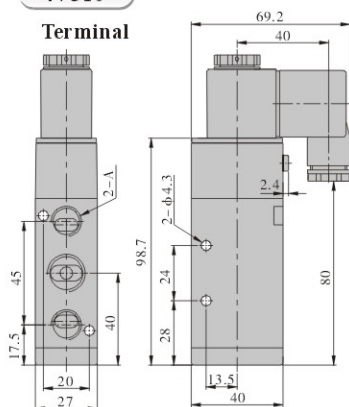
Material of major parts

Item	4V310	4V320	4V330	Item	4V310	4V320	4V330	Item	4V310	4V320	4V330
Body		Aluminum alloy		Fixed plate		Steel with nickel plated		Manual override spring		Stainless steel	
Spool		Aluminum alloy		Nut		Plastic		Spool spring		Stainless steel	
Manual override O-ring		NBR		Manual override		Plastic		Pilot body		Plastic	
Connector gasket		NBR		Bottom cover		Zinc alloy	-	Fixed screw		Plastic	
Spool O-ring		HNBR		Bottom cover gasket		NBR	-	Coil cover		Heat-resistant resin	
Return kit	-		Copper	Pilot gasket		NBR		Manifold		Aluminum alloy	
Side cover	-		Aluminum alloy	Connector		Plastic		Piston		Plastic	
Return spring	-		Stainless steel	Return spring kit	-		Copper	Armature		Pure iron	

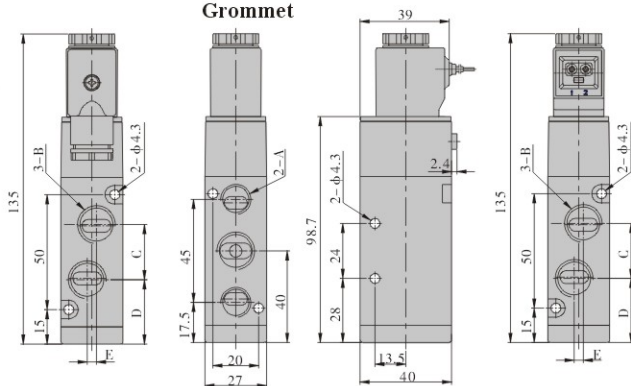
Dimensions

4V310

Terminal



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



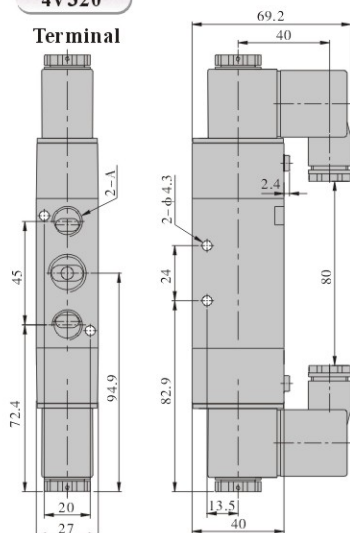
SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

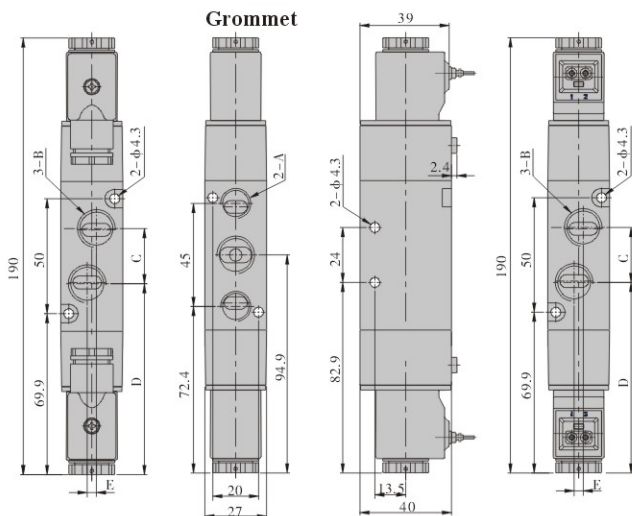
4V300 SERIES

4V320

Terminal



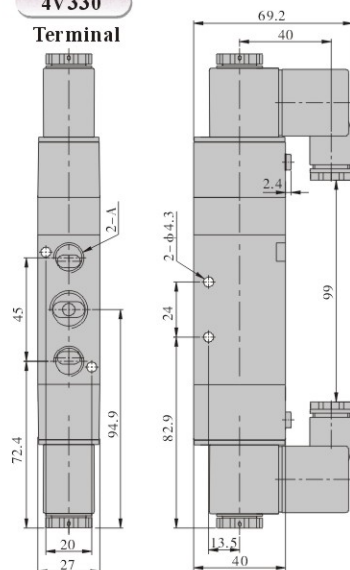
Grommet



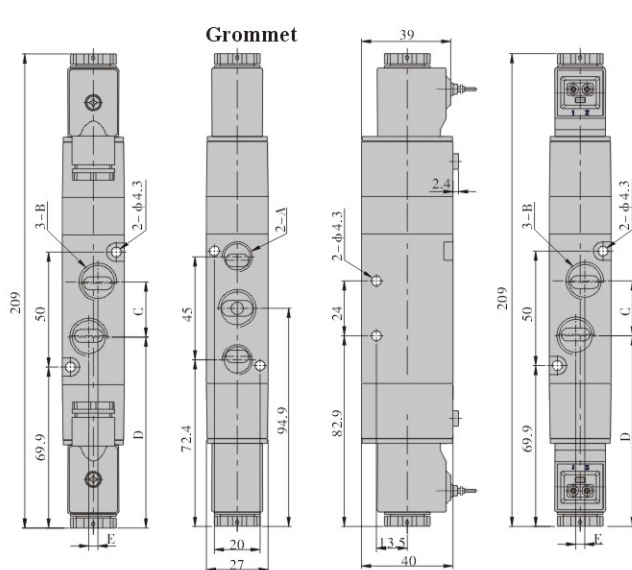
Model \ Item	A	B	C	D	E
4V320-08	1/4"	1/4"	22	83.9	0
4V320-10	1/4"	3/8"	24	82.9	4

4V330

Terminal



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

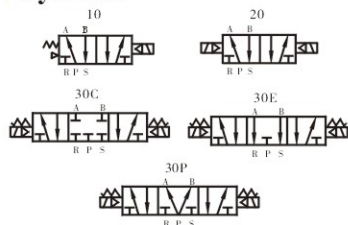


SOLENOID VALVE(5/2 5/3 WAY)

4V400 SERIES

Airtac

Symbol



Specification

Item/Type	4V410-15	4V420-15	4V430C-15	4V430E-15	4V430P-15
Fluid	Air (to be filtered by 40 μ filter element)				
Operating	Internally piloted				
Valve 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	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)				
Proof pressure	12.0 bar (1.2MPa)(170Psi)				
Temperature	-5~60℃(23~140℉)				
Voltage range	-15%~+10%				
Power consumption	AC; 3.5VA DC; 2.5W				
Insulation	B class				
Protection	IP65 (DIN40050)				
Connector	DIN Terminal or Grommet				
Max frequency	3 cycle/sec				
Min activating time	0.05 sec				
Weight	590g	770g	770g	770g	770g

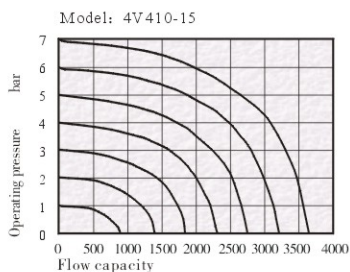
*Note: PT、NPT、BSP Thread are available.

Ordering code

4V	4	10	—	15	—	AC110V	—	
Model	Code	Valve type		Port size		Voltage		Electrical entry
4V: 5 port 2 (3) position solenoid valve	4: 400 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		15: 1/2"		DC12V DC24V 50Hz AC110V 50Hz AC220V 50Hz		Blank: Terminal I: Grommet

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

Flow chart



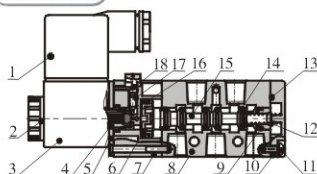
SOLENOID VALVE(5/2 5/3 WAY)

4V400 SERIES

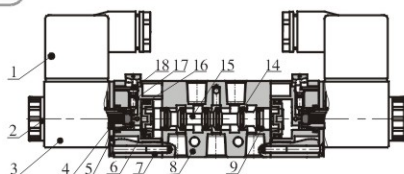
AIRTAC

Inner structure

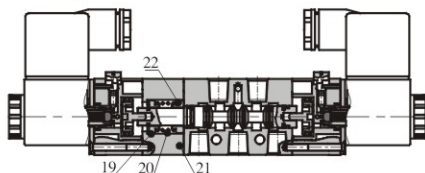
4V410



4V420



4V430C



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

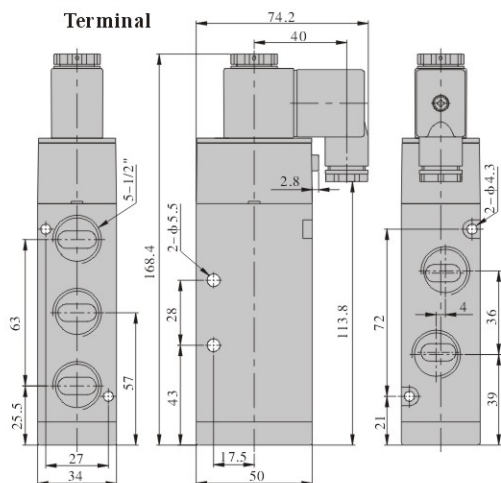
Material of major parts

Item	4V410	4V420	4V430	Item	4V410	4V420	4V430	Item	4V410	4V420	4V430
Body	Aluminum alloy			Fixed plate	Steel with nickel plated			Manual override spring	Stainless steel		
Spool	Aluminum alloy			Nut	Plastic			Spool spring	Stainless steel		
Manual override O-ring	NBR			Manual override	Plastic			Pilot body	Plastic		
Connector gasket	NBR			Bottom cover	Zinc alloy	-		Fixed screw	Plastic		
Spool O-ring	HNBR			Bottom cover gasket	NBR	-		Coil cover	Heat-resistant resin		
Return kit	-	Copper		Pilot gasket	NBR			Manifold	Aluminum alloy		
Side cover	-	Aluminum alloy		Connector	Plastic			Piston	Plastic		
Return spring	-	Stainless steel		Return spring kit	-	Copper		Armature	Pure iron		

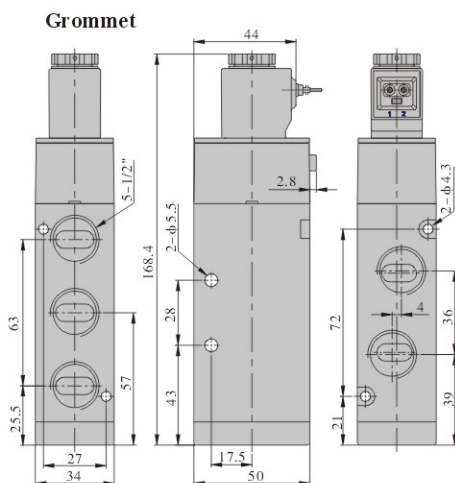
Dimensions

4V410

Terminal



Grommet



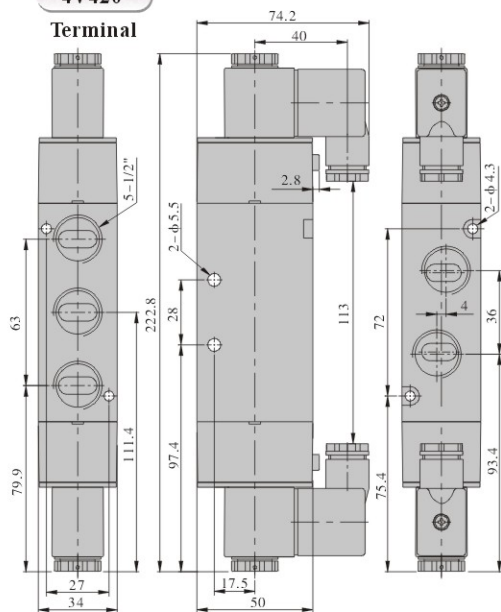
SOLENOID VALVE(5/2 5/3 WAY)

AirTAC

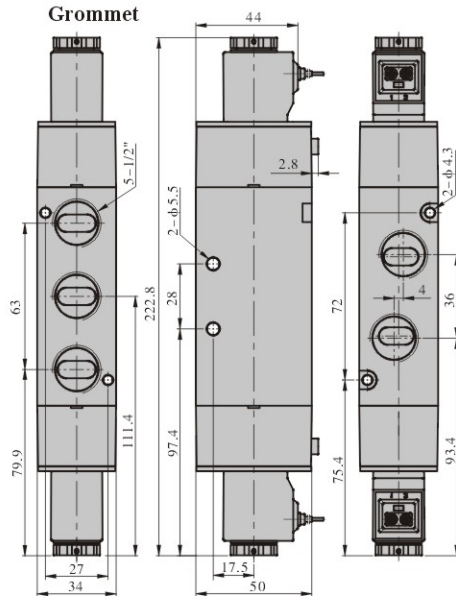
4V400 SERIES

4V420

Terminal

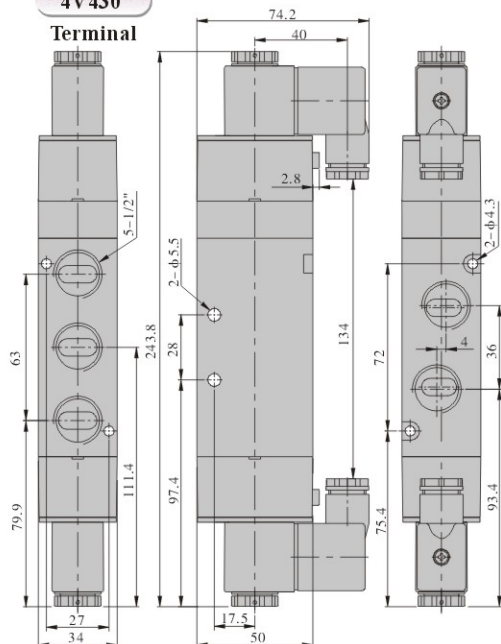


Grommet

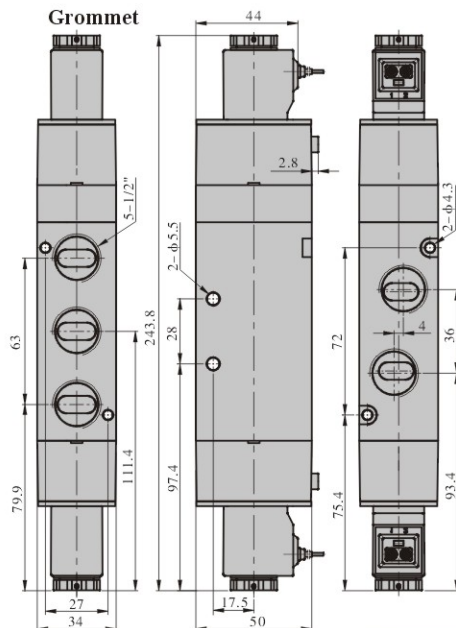


4V430

Terminal

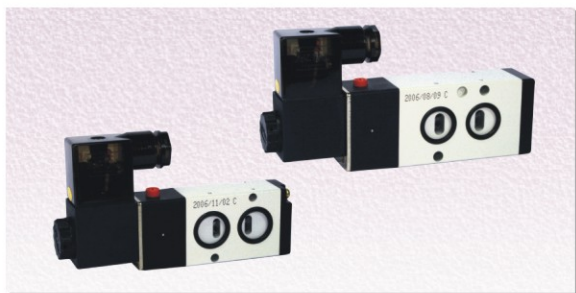


Grommet

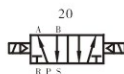
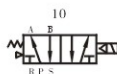


SOLENOID VALVE(5/2 WAY) NAMUR SERIES

AirTAC



Symbol

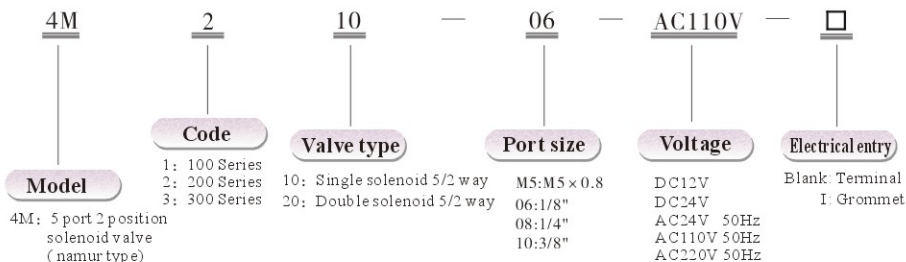


Specification

Item\Type	4M110-M5	4M120-M5	4M110-06	4M120-06	4M210-06	4M220-06	4M210-08	4M220-08	4M310-08	4M320-08	4M310-10	4M320-10
Fluid	Air (to be filtered by 40 μ filter element)											
Operating	Internally piloted											
Valve type	5 port 2 position											
Orifice size	5.5mm ² (Cv=0.31)		12mm ² (Cv=0.67)		14mm ² (Cv=0.78)		16mm ² (Cv=0.89)		25mm ² (Cv=1.4)		30mm ² (Cv=1.68)	
Port size	In= Exhaust=M5		In= Exhaust=1/8"		In= Exhaust=1/8"		In= 1/4" Exhaust=1/8"		In= Exhaust=1/4"		In= 3/8" Exhaust=1/4"	
Lubrication	Not required											
Pressure range	1.5~8.0 bar (0.15~0.8MPa)(21~114Psi)											
Proof pressure	12.0 bar (1.2MPa)(170Psi)											
Temperature	-5~60°C (23~140°F)											
Voltage range	-15%~+10%											
Power consumption	AC: 2.5VA DC: 2.5W				AC: 3.5VA DC: 2.5W							
Insulation	B class											
Protection	IP65 (DIN40050)											
Connector	DIN Terminal or Grommet											
Max frequency	5 cycle/sec											
Min activating time	0.05 sec											
Weight	120g	175g	120g	175g	220g	320g	220g	320g	310g	400g	310g	400g

*Note: PT, NPT, BSP Thread are available.

Ordering code



Flow chart

Please refer to the same as types 4v series solenoid valves.



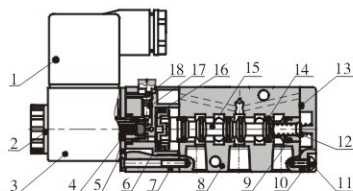
SOLENOID VALVE(5/2 WAY)

AIRTAC

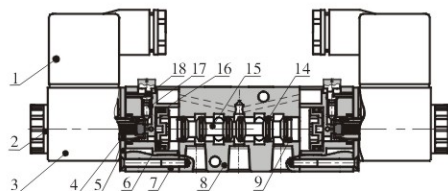
NAMUR SERIES

Inner structure

110\210\310



120\220\320



NO.	Item	NO.	Item	NO.	Item	NO.	Item
1	Connector	6	Piston	11	Fixed screw	15	Spool
2	Coil nut	7	Pilot kit	12	Bottom cover gasket	16	Piston O-ring
3	Coil	8	Body	13	Spool spring	17	Override spring
4	Armature assembly	9	Wearing ring	14	Spool O-ring	18	Manual override
5	Fixed plate	10	Bottom cover				

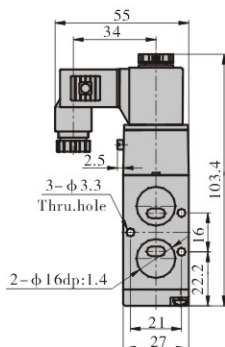
Material of major parts

Item	4M110	4M120	4M210	4M220	4M310	4M320	Item	4M110	4M120	4M210	4M220	4M310	4M320
Body	Aluminum alloy						Manual override spring	Stainless steel					
Spool	Aluminum alloy						Coil nut	Nylon					
Manual override O-ring	NBR						Pilot body	PBT+Glass fiber					
Connector gasket	NBR						Fixed screw	Carbon steel					
Spool O-ring	HNBR						Coil cover	Heat-resistant resin					
Bottom cover gasket	NBR	-	NBR	-	NBR	-	Manifold	Aluminum alloy					
Pilot gasket	NBR						Piston	POM					
Fixed plate	Steel with nickel plated						Armature	Pure iron					
Spool spring	Stainless steel						Connector	Plastic					

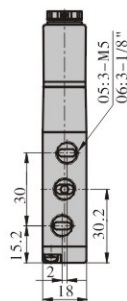
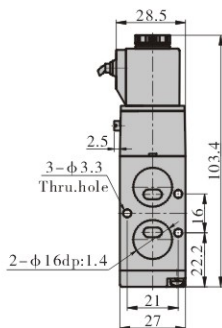
Dimensions

4M110

Terminal



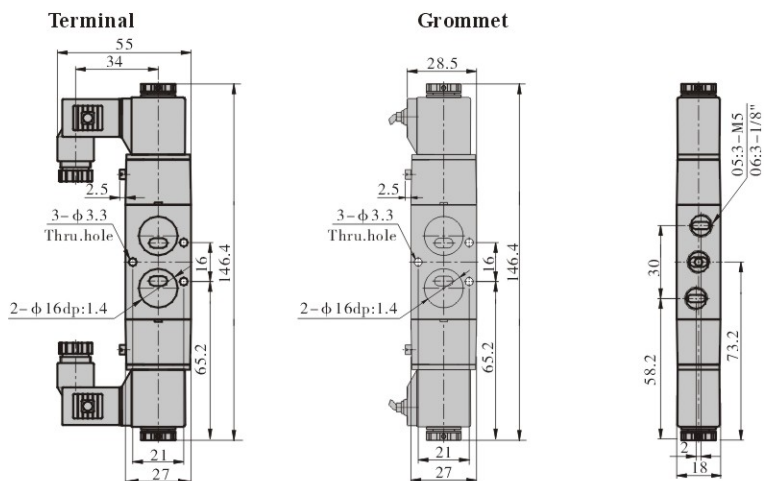
Grommet



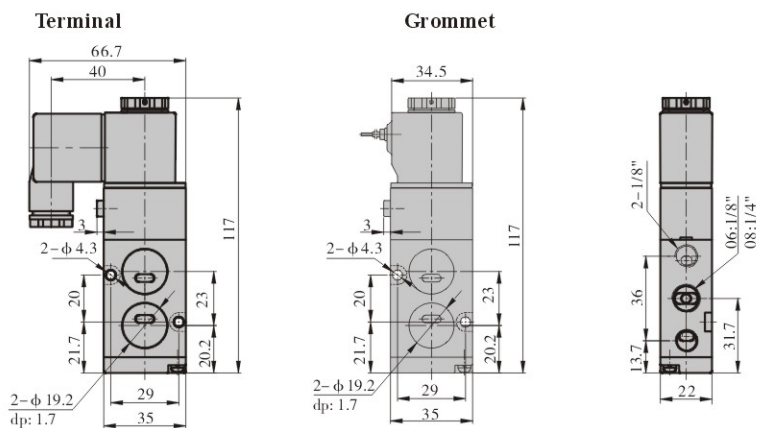
SOLENOID VALVE(5/2 WAY) NAMUR SERIES

AirTAC

4M120



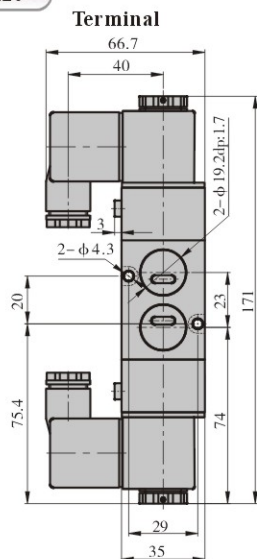
4M210



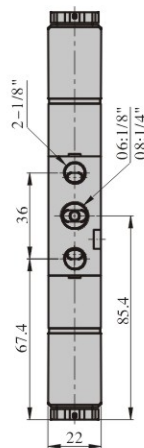
SOLENOID VALVE(5/2 WAY) NAMUR SERIES

AirTAC

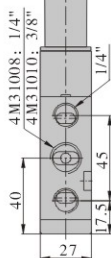
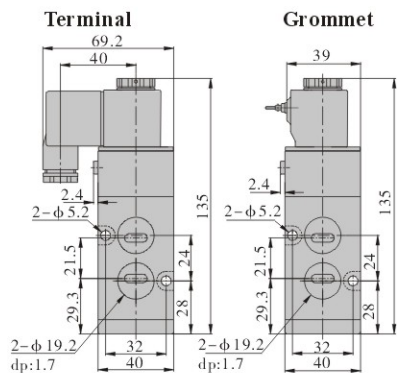
4M220



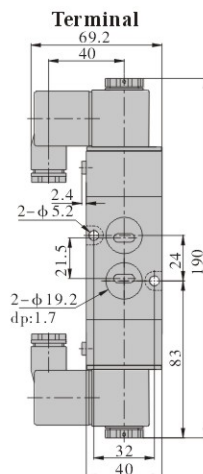
Grommet



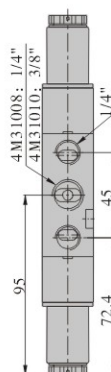
4M310



4M320



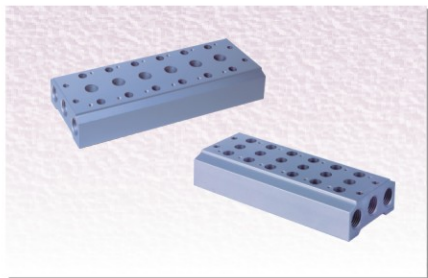
Grommet



AIR VALVE(ACCESSORIES)

MANIFOLD

AIRTAC



Ordering code

100M

□ F

Model

100M: 100 Series manifold
200M: 200 Series manifold
300M: 300 Series manifold
400M: 400 Series manifold

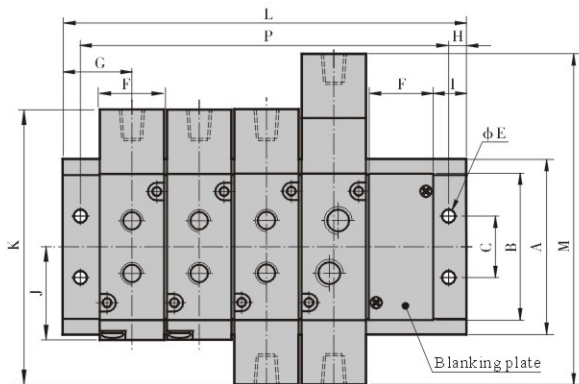
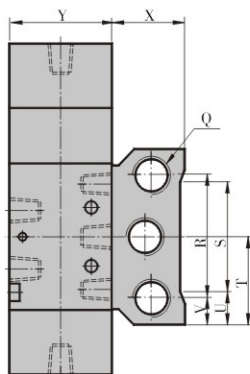
Number of stations

100M: 1-16 Stations
200M: 1-16 Stations
300M: 1-12 Stations
400M: 1-7 Stations

Manifold for choosing list

Manifold\Valve type	4A100	4A200	4A300	4A400
100M	●			
200M		●		
300M			●	
400M				●

Dimensions



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	43.2	20	4.5	18.3	19	5	10	28.2	81	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	92	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	111	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	142	71	98	133	168	203	238	273	-	-	-	-	-	-	-	-	-

Type\Item	M	P																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	PT1/4	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	PT1/4	43	32	30.5	14.5	9	26	35
300M □ F	130	42	70	98	126	154	182	210	238	266	294	322	350	-	-	-	-	PT3/8	53	48	37.5	13.5	11	30	40
400M □ F	163	49	84	119	154	189	224	259	-	-	-	-	-	-	-	-	-	PT1/2	68	67	52	18.5	18	38	50

HAND LEVER VALVE(5/2 WAY)

4H SERIES

AirTAC



■ Symbol

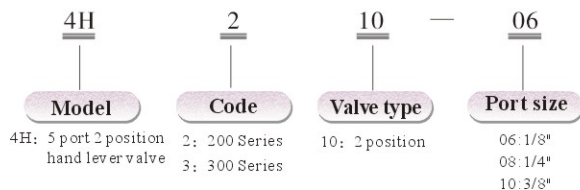


■ Specification

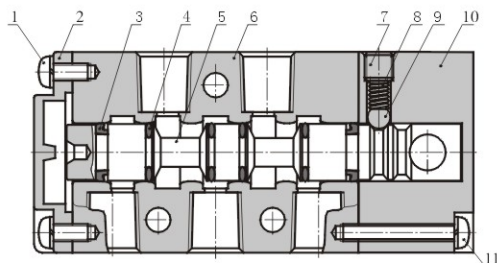
Item/Type	4H210-06	4H210-08	4H310-08	4H310-10
Fluid	Air (to be filtered by 40μ filter element)			
Operating	Direct acting			
Orifice size mm ²	14(Cv=0.78)	16(Cv=0.89)	25(Cv=1.39)	30(Cv=1.67)
Port size	In=Out=Exhaust=1/8"	In=Out=1/4" Exhaust=1/8"	In=Out=Exhaust=1/4"	In=Out=3/8" Exhaust=1/4"
Pressure range	0~8.0bar (0~0.8MPa)(0~114Psi)			
Temperature °C	-5~60			
Lubrication	Not required			
Operating angle	± 15°			

*Note: PT、NPT、BSPP Thread are available.

■ Ordering code



■ Inner structure



NO.	Item
1	Screw
2	Bottom cover
3	Packing
4	O-ring
5	Spool
6	Body
7	Inner screw
8	Spring
9	Steel ball
10	Top cover
11	Screw

HAND LEVER VALVE(5/2 WAY)

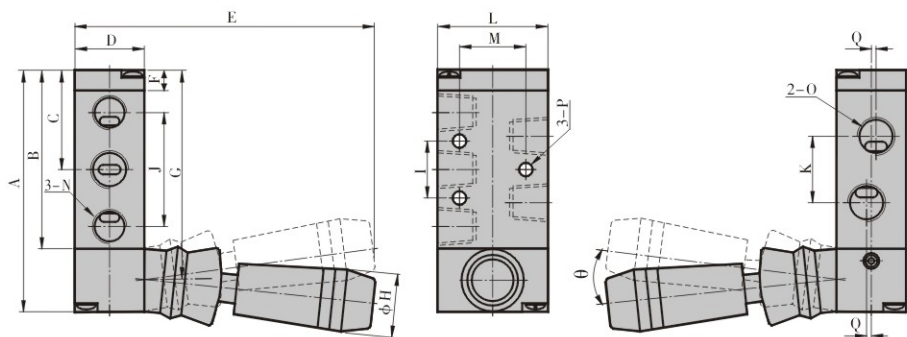
4H SERIES

AirTAC

Material of major parts

Item/Model	4H210-06	4H210-08	4H310-08	4H310-10
Screw	Steel			
Bottom cover	Zinc alloy			
Spool	Steel			
Body	Aluminum alloy			
Inner screw	Steel			
Spring	Stainless steel			
Top cover	Aluminum alloy			
Handle seat	Copper			
Handle	Nylon			
Gasket	NBR			
Packing	HNBR			
O-ring	NBR			

Dimensions



Type\Item	A	B	C	D	E	F	G	H	I
4H210-06	76.7	56.5	31.5	22	94	6.5	66.5	φ 19	20
4H210-08	76.7	56.5	31.5	22	94	6.5	66.5	φ 19	20
4H310-08	92.5	72.5	40	27	98.4	7.5	82.5	φ 19	24
4H310-10	92.5	72.5	40	27	98.4	7.5	82.5	φ 19	24

Type\Item	J	K	L	M	N	O	P	Q	θ
4H210-06	36	18	35	23.5	1/8"	1/8"	φ 4.3	-	16.4
4H210-08	36	21	35	23.5	1/8"	1/4"	φ 4.3	1.5	16.4
4H310-08	45	22	40	27.5	1/4"	1/4"	φ 4.3	-	20.7
4H310-10	45	24	40	27.5	1/4"	3/8"	φ 4.3	2	20.7



PUSH-PULL VALVE(3/2 WAY)

3L SERIES

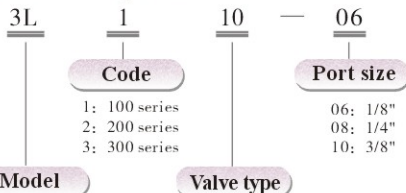
AIRTAC



Symbol



Ordering code

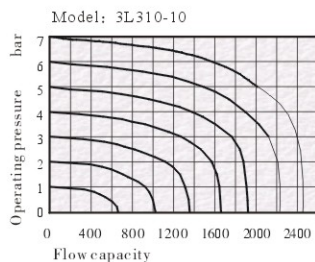
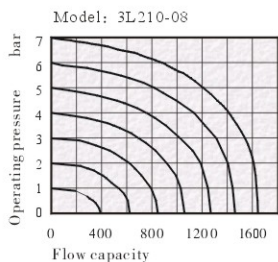
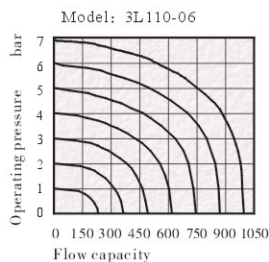


Specification

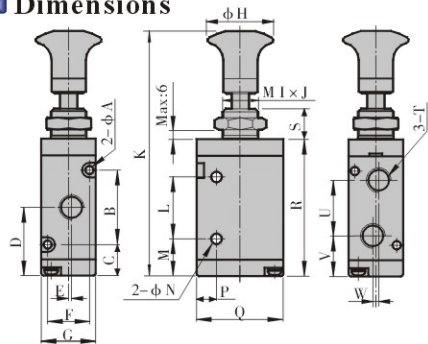
Model	3L110-06	3L210-06	3L210-08	3L310-08	3L310-10
Media	Air(to be filtered by 40μ filter element)				
Type	3 Port 2 Position				
Port size	1/8"		1/4"		3/8"
Orifice size mm ² (Cv)	12(0.67)	14(0.78)	16(0.89)	25(1.39)	30(1.67)
Pressure range	0~8.0 bar (0~0.8MPa)(0~114Psi)				
Proof pressure	12.0 bar (1.2MPa)(171Psi)				
Temperature	-5~60℃				

*Note: PT、NPT、BSPThread are available.

Flow chart



Dimensions



Item\Type	3L110-06	3L210-08	3L310-10	Item\Type	3L110-06	3L210-08	3L310-10
A	3.3	3.3	4.3	L	21	25	30
B	19	30	35	M	12.2	15.2	17.5
C	13.2	12.7	15	N	3.3	4.3	4.3
D	23.7	27.7	32.5	P	7.5	8	10
E	1	0	0	Q	27	35	40
F	13	17	20	R	47	57	65.8
G	18	22	27	S	10	10	10
H	22	22	25	T	1/8"	1/8"	1/4"
I	12	14	16	U	16	22.5	24
J	0.75	1.0	1.0	V	14.7	16.5	20.5
K	79	90	100	W	2	0	0

PUSH-PULL VALVE(5/2 WAY)

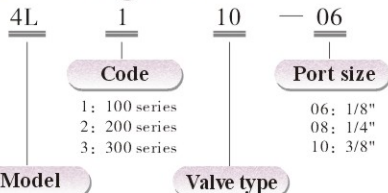
4L SERIES

AIRTAC

Symbol



Ordering code



4L: 5 port 2 position
push-pull valve

10: 2 position

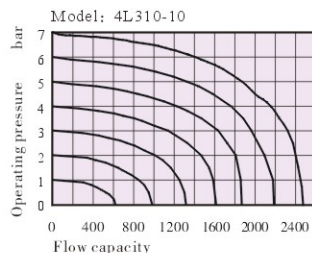
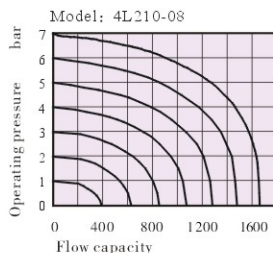
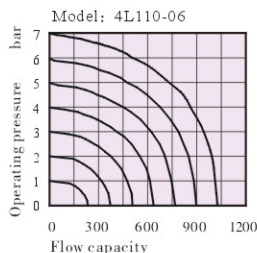


Specification

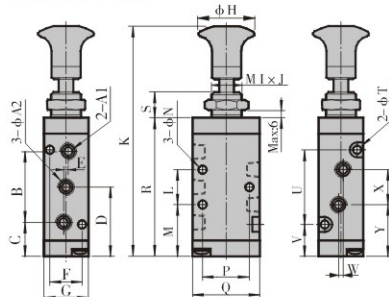
Model	4L110-06	4L210-06	4L210-08	4L310-08	4L310-10
Media	Air(to be filtered by 40μ filter element)				
Type	5 Port 2 Position				
Port size	1/8"		1/4"		
Orifice size mm ² (Cv)	12(0.67)	14(0.78)	16(0.89)	25(1.39)	30(1.67)
Pressure range	0~8.0 bar (0~0.8MPa)(0~114Psi)				
Proof pressure	12.0 bar (1.2MPa)(171Psi)				
Temperature	-5~60℃				

*Note: PT, NPT, BSPP Thread are available.

Flow chart



Dimensions



Item/Type	4L110-06	4L210-08	4L310-10	Item/Type	4L110-06	4L210-08	4L310-10
A1	1/8"	1/8"	1/4"	M	21.2	21.7	28
A2	1/8"	1/8"	1/4"	N	3.3	4.3	4.3
B	28	36	45	P	19	23.5	27.5
C	14.2	13.7	17.5	Q	27	35	40
D	28.2	31.7	40	R	58	65	80.8
E	2	0	0	S	10	10	10
F	13	17	20	T	3.3	3.3	4.3
G	18	22	27	U	30	38	50
H	22	22	25	V	13.2	12.7	15
I	12	14	16	W	3	0	4
J	0.75	1.0	1.0	X	16	18	22
K	90	98	115	Y	20.2	22.7	29
L	14	20	24				

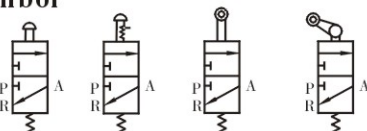
CONTROL VALVE(3/2 WAY)

S3 SERIES

AIRTAC



Symbol

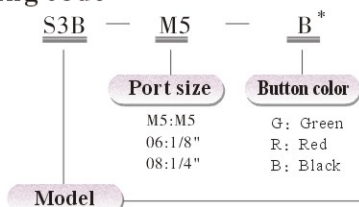


Specification

Item/Type	S3B	S3PF	S3PP	S3PM	S3HS	S3HL	S3PL	S3R	S3L	S3V
Fluid	Air (to be filtered by 40 μ filter element)									
Operating	Direct acting									
Port size	M5; M5		06; 1/8"		08; 1/4"					
Pressure range	0-8.0bar (0-0.8MPa)(0-114Psi)									
Temperature	-5-60 °C									
Lubrication	Not required									

*Note: PT, NPT, BSPP Thread are available.

Ordering code



S3B: Basic type

S3PF: flat type

S3PP: protruding type

S3PM: mushroom type

S3HS: selector type

S3PL: latching type (only red)

S3HL: lever type (only black)

S3R: Roller type

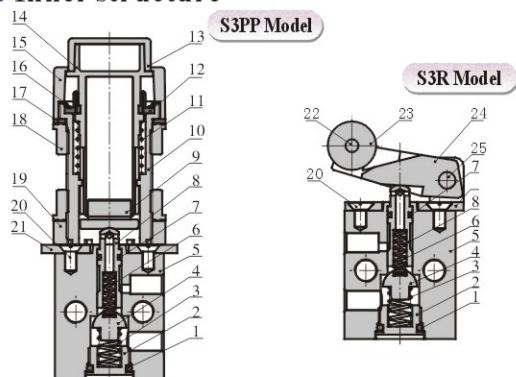
S3L: Roller with free return type

S3V: Vertical type

G: Green
R: Red
B: Black

*S3R/S3L/S3V series without this function

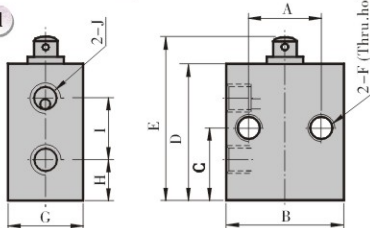
Inner structure



NO.	Item	NO.	Item
1	Bottom cover o-ring	14	Protrude bottom
2	Bottom cover	15	Bottom cover
3	Bottom cover spring	16	Bottom ring
4	Seal	17	Gasket
5	Body	18	Nut
6	Spool spring	19	Connector
7	Spool O-ring	20	Screw
8	Spool	21	Switch seat
9	Lump	22	Roller shaft
10	Bottom body	23	Roller
11	Bottom spring	24	Roller seat
12	Dust cover	25	Rocker shaft
13	Bottom cap		

Dimensions of body

S3B Model



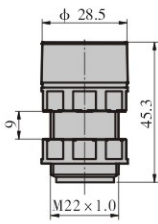
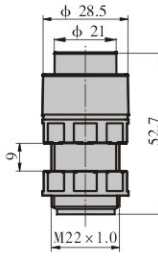
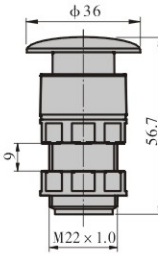
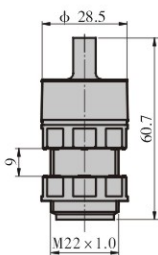
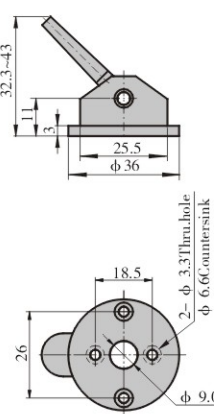
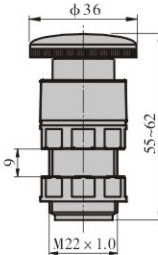
Type/Item	05Type	06Type	08Type
A	16	23	24
B	26	30	34
C	15	20.5	22.5
D	30	41	46
E	36	47	52
F	M5 $\times$ 0.8	M5 $\times$ 0.8	M5 $\times$ 0.8
G	16.5	16.5	17.5
H	9	11.5	12
I	13	17.5	21
J	M5 $\times$ 0.8	1/8"	1/4"

DIRECTION CONTROL VALVE(3/2 WAY)

AirTAC

S3 SERIES

■ Control set

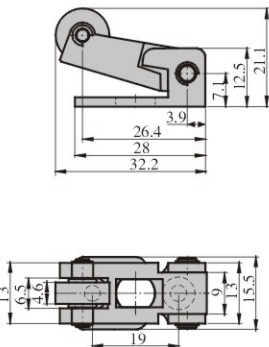
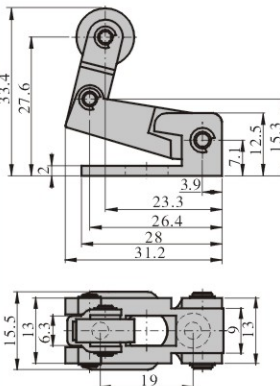
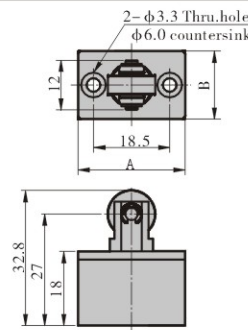
Model	S3PF Model		S3PP Model		S3PM Model	
	Ordering code	Type	Ordering code	Type	Ordering code	Type
How to order	S3PF05-P11	S3PF flat type control set(Green)	S3PP05-P11	S3PP protruding type control set(Green)	S3PM05-P11	S3PM mushroom type control set(Green)
	S3PF05-P12	S3PF flat type control set(Red)	S3PP05-P12	S3PP protruding type control set(Red)	S3PM05-P12	S3PM mushroom type control set(Red)
	S3PF05-P13	S3PF flat type control set(Black)	S3PP05-P13	S3PP protruding type control set(Black)	S3PM05-P13	S3PM mushroom type control set(Black)
Adapt production	S3PF05、S3PF06、S3PF08		S3PP05、S3PP06、S3PP08		S3PM05、S3PM06、S3PM08	
Dimensions						
Model	S3HS Model		S3HL Model		S3PL Model	
	Ordering code	Type	Ordering code	Type	Ordering code	Type
How to order	S3HS05-P11	S3HS selector type control set(Green)	-	-	-	-
	S3HS05-P12	S3HS selector type control set(Red)	-	-	S3PL05-P12	S3PL Latching type control set(Red)
	S3HS05-P13	S3HS selector type control set(Black)	S3HL05-P13	S3HL Lever type control set(Black)	-	-
Adapt production	S3HS05、S3HS06、S3HS08		S3HL05、S3HL06、S3HL08		S3PL05、S3PL06、S3PL08	
Dimensions						



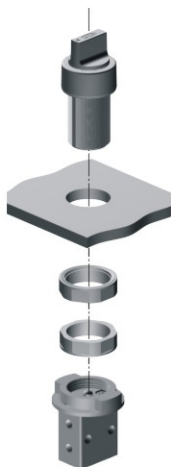
DIRECTION CONTROL VALVE(3/2 WAY)

AIRTAC

S3 SERIES

Model	S3R Model		S3L Model		S3V Model												
	Ordering code	Type	Ordering code	Type	Ordering code	Type											
How to order	S3R05-P14	S3R Roller type Control set	S3L05-P14	S3L Roller with free return type control set	S3V05-P14	S3V05 Vertical type control set											
	-	-	-	-	S3V06-P14	S3V06 Vertical type control set											
	-	-	-	-	S3V08-P14	S3V08 Vertical type control set											
Adapt production	S3R05、S3R06、S3R08		S3L05、S3L06、S3L08		S3V05-P14 Adapto S3V05, the others so on												
Dimensions					 2-φ3.3 Thru.hole φ6.0 countersink												
					<table><tr><th>Model\Item</th><th>A</th><th>B</th></tr><tr><td>05 Type</td><td>26</td><td>16.5</td></tr><tr><td>06 Type</td><td>30</td><td>16.5</td></tr><tr><td>08 Type</td><td>34</td><td>17.5</td></tr></table>		Model\Item	A	B	05 Type	26	16.5	06 Type	30	16.5	08 Type	34
Model\Item	A	B															
05 Type	26	16.5															
06 Type	30	16.5															
08 Type	34	17.5															

Assemble chart



Attention

- 1) The control set is made of POM material, Manual control is only acceptable. Using metal parts to control is prohibited.
- 2) S3B、S3PM、S3PF、S3PP series direction control valves are auto-returned, S3HL、S3HS、S3PL series direction control valves are handle-returned.
- 3) For S3R、S3L、S3V series when roller is rammed and caused shifing, the displacement of the roller should not exceed 3mm, or else, damage will be caused on the mechanical parts.
- 4) S3L is a roller with free return type, shifing is caused by ramming from right to left, and returned with no extra shifing.
- 5) The control head assembly can be ordered separately, The detailed method of order refers to the above form.

Reversal Stroke

Type	S3B	S3PF	S3PP	S3HS	S3PM	S3PL	S3R	S3L	S3V
Spool stroke			2.4-4.0				2.4-3.0		2.4-3.8
Button stroke	2.4-4.0	3.8-5.4	3.8-5.4	5.1-6.7	3.8-5.4	5.9-7.5	4.8-6.2	4.5-6.0	3.4-4.8

HAND SLIDE VALVE

HSV SERIES

AirTAC

■ Specification

Model	HSV06	HSV08	HSV10	HSV15	HSV20	HSV25
Media	Air(to be filtered by 40 μ filter element)					
Port size code	06	08	10	15	20	25
Port size	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Orifice size (Cv)	23mm ² (1.28)	40mm ² (2.2)	62mm ² (3.5)	140mm ² (7.8)	250mm ² (13.8)	392mm ² (21.78)
Pressure range	0~10.0 bar (0~1.0MPa)(0~142Psi)					
Proof pressure	15.0 bar (1.5MPa)(213Psi)					
Temperature	-5~60℃					

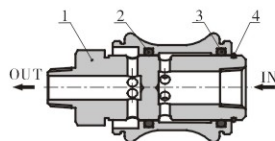
*Note: PT、NPT、BSPThread are available.



■ Symbol



■ Inner structure

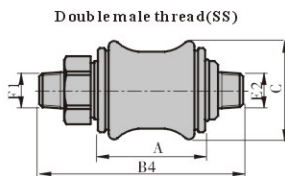
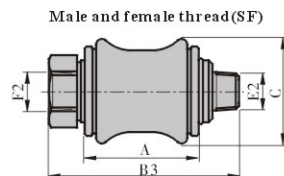
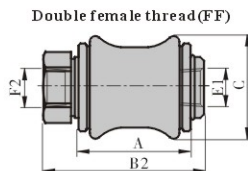
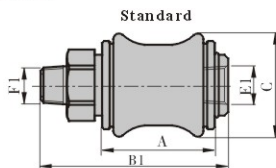


■ Ordering code

HSV	08	SS
Model	Port size	Dovt Thread
HSV: Hand slide valve	06:1/8" 08:1/4" 10:3/8" 15:1/2" 20:3/4" 25:1"	Blank: Standard SS: Double male thread FF: Double female thread SF: Male and female thread

NO.	Item	NO.	Item
1	Valve	2	Body
3	O-ring	4	Clip

■ Dimensions



Type/Item	A	B1	B2	B3	B4	C	D	E1	E2	F1	F2
HSV06	30	50	43	50	57	27.5	17	1/8"	1/8"	1/8"	1/8"
HSV08	32.5	58	47	58	69	30	19	1/4"	1/4"	1/4"	1/4"
HSV10	39	68.5	55.5	68.5	81.5	35.5	22	3/8"	3/8"	3/8"	3/8"
HSV15	50	85.5	70.5	85.5	100.5	44	30	1/2"	1/2"	1/2"	1/2"
HSV20	58	96.5	79.5	96.5	113.5	53.5	36	3/4"	3/4"	3/4"	3/4"
HSV25	70	114.5	96.5	114.5	132.5	65.5	44	1"	1"	1"	1"



HAND LEVER VALVE(4/3 4/2WAY)

4HV SERIES

AIRTAC

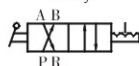


Symbol

4/3 way Closed center



4/2 way

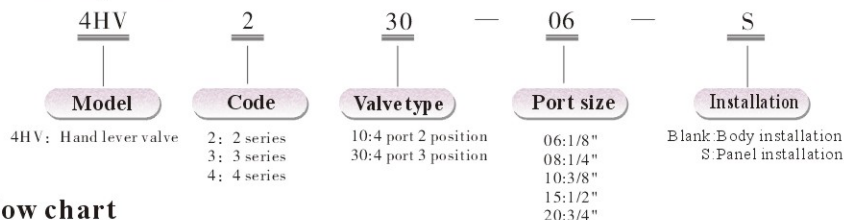


Specification

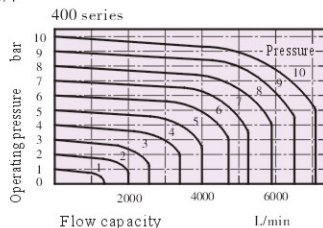
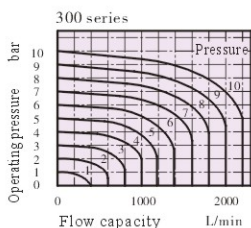
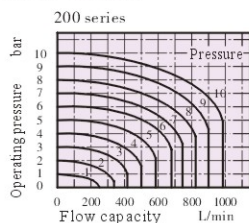
Model	4HV2□□ -06	4HV2□□ -08	4HV3□□ -08	4HV3□□ -10	4HV4□□ -15	4HV4□□ -20
Media	Air(to be filtered by 40 μ filter element)					
Type	4 port 2 position, 4 port 3 position					
Port size	1/8"	1/4"	3/8"	1/2"	3/4"	
Orifice size mm ² (Cv)	14(0.78)	16(0.89)	30(1.67)	33(1.83)	88(4.89)	95(5.27)
Pressure range	0-10.0 bar (0-1.0MPa)(0-142Psi)					
Proof pressure	15.0 bar (1.5MPa)(213Psi)					
Temperature range	-5-60 °C					
Operating angle	90					

*Note: PT、NPT、BSPThread are available.

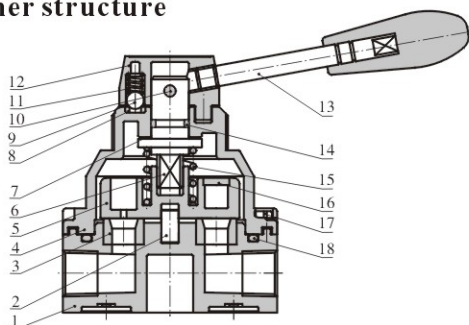
Ordering code



Flow chart



Inner structure

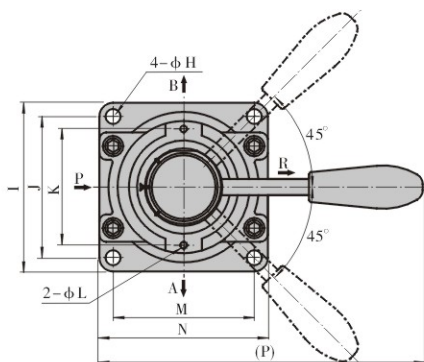
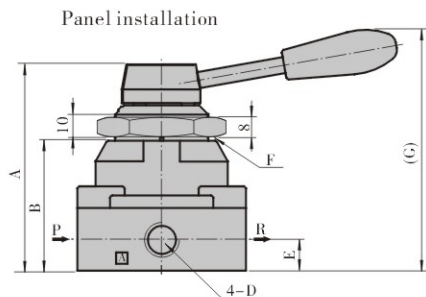
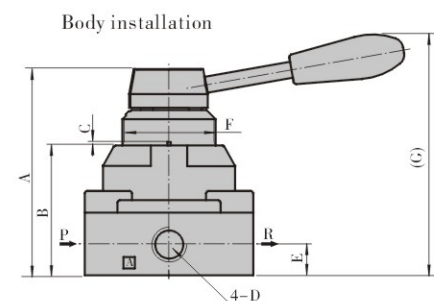


NO.	Item	NO.	Item
1	Body	2	Bearing pin
3	Sealed seat	4	Valve cover
5	Valve core	6	Spool
7	Washer	8	Fixing plate
9	Slide ball	10	Fast pin
11	Slide ball spring	12	Valve cap
13	Hand lever	14	O-ring
15	Slide ring spring	16	Sealed plate
17	Fixing screw	18	O-ring

HAND LEVER VALVE(4/3 4/2WAY)

4HV SERIES

■ Dimensions



Type\Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
4HV2□□-06	72.6	45	1.5	1/8"	11.5	M34 × 1.5	92.5	5	62	49	40	3	49	62	120
4HV2□□-08	72.6	45	1.5	1/4"	11.5	M34 × 1.5	92.5	5	62	49	40	3	49	62	120
4HV3□□-08	88.5	56	1.5	1/4"	13.5	M40 × 1.5	104	6.6	74	62	51	3	62	74	140
4HV3□□-10	88.5	56	1.5	3/8"	13.5	M40 × 1.5	104	6.6	74	62	51	3	62	74	140
4HV4□□-15	110.3	72	2	1/2"	18	M52 × 1.5	126	6.6	102	89	64	3	81	94	160
4HV4□□-20	110.3	72	2	3/4"	18	M52 × 1.5	126	6.6	102	89	64	3	81	94	160

AirTAC

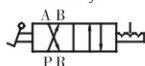


Symbol

4/3 way Closed center



4/2 way

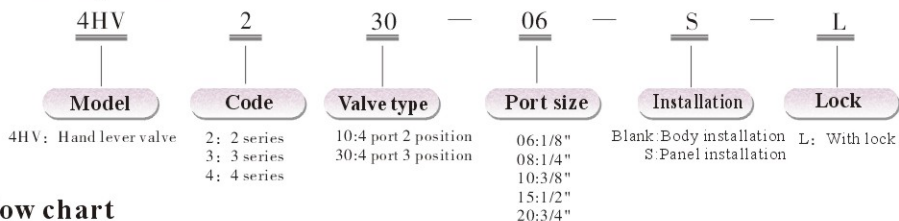


Specification

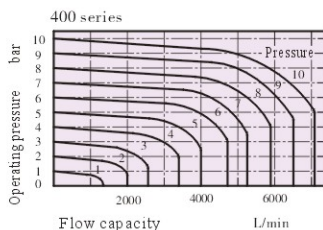
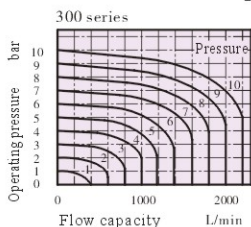
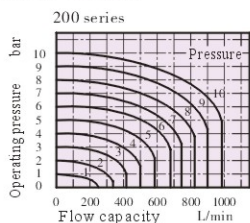
Model	4HV1.2□□ -06	4HV1.2□□ -08	4HV1.3□□ -08	4HV1.3□□ -10	4HV1.4□□ -15	4HV1.4□□ -20
Media	Air(to be filtered by 40 μ. filter element)					
Type	4 port 2 position		4 port 3 position			
Port size	1/8"	1/4"	3/8"	1/2"	3/4"	
Orifice size mm ² (Cv)	14(0.78)	16(0.89)	30(1.67)	33(1.83)	88(4.89)	95(5.27)
Pressure range	0~10.0 bar (0~1.0MPa)(0~142Psi)					
Proof pressure	15.0 bar (1.5MPa)(213Psi)					
Temperature range	-5~60℃					
Operating angle	90°					

*Note: PT, NPT, BSPP Thread are available

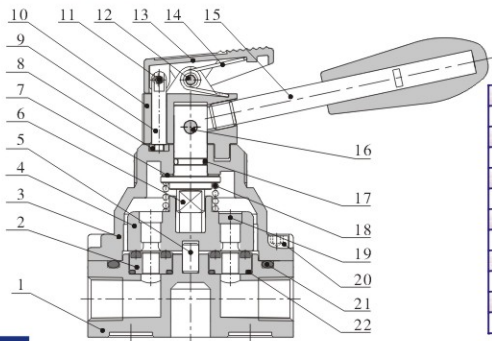
Ordering code



Flow chart



Inner structure



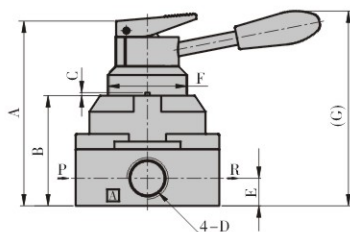
NO	Item	NO	Item
1	Body	12	PIN one
2	Seal base	13	Front cover
3	Valve cover	14	Spring
4	Valve plug	15	Handle
5	PIN	16	PIN two
6	Shaft	17	O-ring
7	Filling piece	18	Spring
8	Lock Iron plate	19	Iron plate
9	Lock PIN	20	Screw
10	Valve cap	21	Body O-ring
11	PIN	22	Seal base O-ring

HAND LEVER VALVE WITH LOCK(4/3 4/2WAY) **AirTAC**

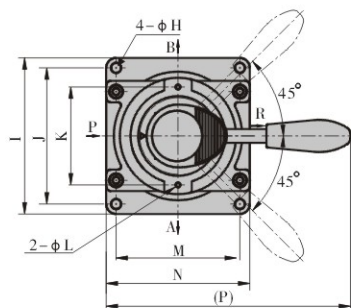
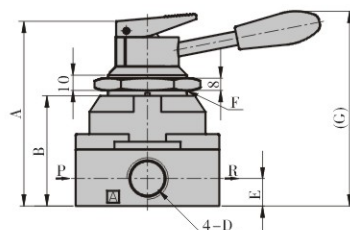
4HVL SERIES

■ Dimensions

Body installation



Panel installation

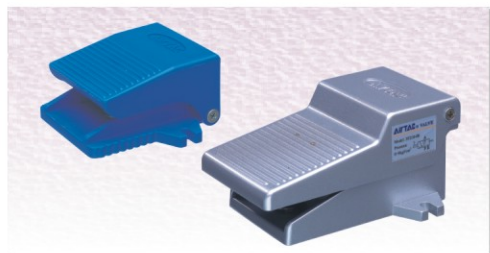


Model/Item	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P
4HV2□□-06L	84	45	1.5	1/8"	11.5	M34 × 1.5	92.5	5.5	62	49	40	3	49	62	120
4HV2□□-08L	84	45	1.5	1/4"	11.5	M34 × 1.5	92.5	5.5	62	49	40	3	49	62	120
4HV3□□-08L	99	56	1.5	1/4"	13.5	M40 × 1.5	104	6.6	74	62	51	3	62	74	140
4HV3□□-10L	99	56	1.5	3/8"	13.5	M40 × 1.5	104	6.6	74	62	51	3	62	74	140
4HV4□□-15L	121	72	2	1/2"	18	M52 × 1.5	128	6.6	102	89	64	3	81	94	160
4HV4□□-20L	121	72	2	3/4"	18	M52 × 1.5	128	6.6	102	89	64	3	81	94	160

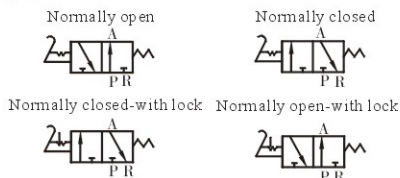
FOOT PEDAL VALVE(3/2 WAY)

3F、3FM SERIES

AIRTAC



Symbol

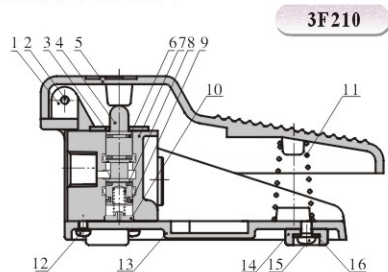


Specification

Model	3FM210 -M5	3F210-06 3FM210-06	3F210-08 3FM210-08
Type	3 port 2 position		
Fluid	Air(to be filtered by 40μ filter element)		
Operating	Direct acting		
Port size	M5	1/8"	1/4"
Pressure range	0~8.0bar (0~0.8MPa)(0~114Psi)		
Temperature range	-5~60℃		
Lubrication	Not required		

*Note: PT、NPT、BSP Thread are available.

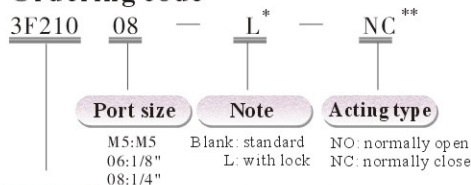
Inner structure



NO.	Item	NO.	Item	NO.	Item
1	Bushing	7	Body	13	Base
2	Fixed screw	8	Spring	14	Base pad
3	Fixed plate	9	E-ring	15	Fixed screw
4	Spool	10	Spring holder	16	Clip
5	Pedal	11	Override spring		
6	O-ring	12	Fixed screw		

Note: Lockable type should be added lubricating grease periodically to ensure the regular work of machine.

Ordering code



Model

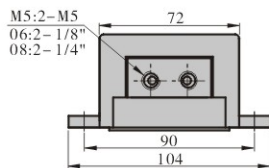
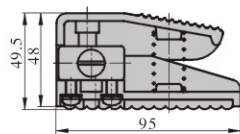
*3FM series have not this Item.
**3FM series have not this Item.

3F210: 3/2 way foot pedal valve

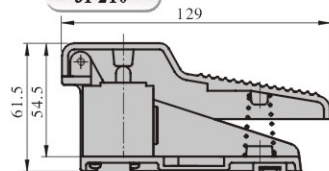
3FM210: 3/2 way foot pedal valve(mini type)

Dimensions

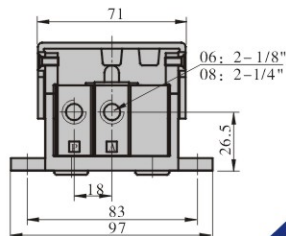
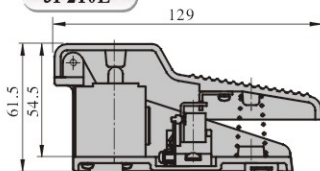
3FM210



3F210



3F210L

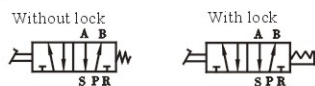


FOOT PEDAL VALVE(5/2 WAY)

4F SERIES

AirTAC

■ Symbol



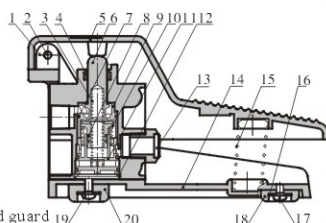
■ Specification

Item/Type	4F210-08	4F210-08L	4F210-08G	4F210-08LG
Fluid	Air (to be filtered by 40 μ filter element)			
Operating	Direct acting			
Port size	In=Out= 1/4"			
Pressure range	0~8.0bar (0~0.8MPa)(0~114Psi)			
Temperature $^{\circ}$ C	-5~60			
Lubrication	Not required			

*Note: PT、NPT、BSPP Thread are available.

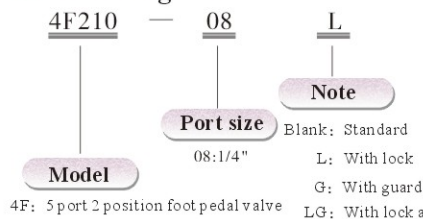


■ Inner structure



NO.	Item	NO.	Item
1	Pin	11	Bottom cover
2	Scissor	12	C clip
3	Spring	13	Silencer
4	E-ring	14	Base
5	Pedal	15	Pedal spring
6	Spool	16	Washer
7	O-ring	17	Scissor
8	O-ring	18	Base pad
9	Front cover	19	Scissor
10	Piston	20	Base pad

■ Ordering code



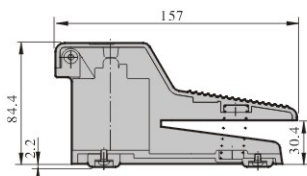
4F: 5 port 2 position foot pedal valve

LG: With lock and guard

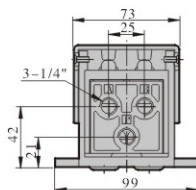
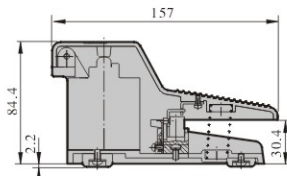
■ Dimensions

Note: Lockable type should be added lubricating grease periodically to ensure the regular work of machine.

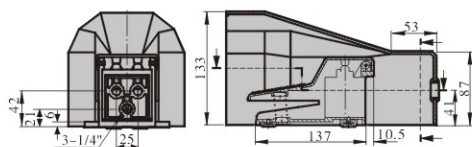
4F210-08



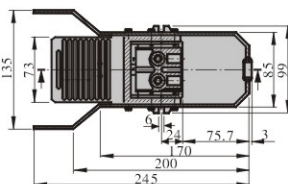
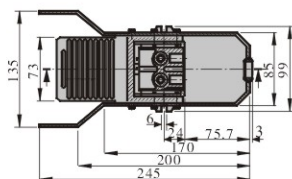
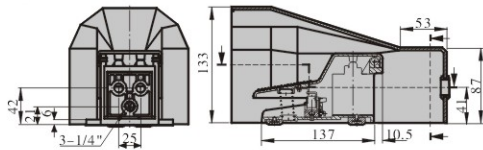
4F210-08L



4F210-08G



4F210-08LG



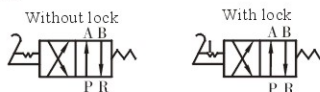
FOOT PEDAL VALVE(4/2 WAY)

4FM SERIES

AIRTAC



■ Symbol

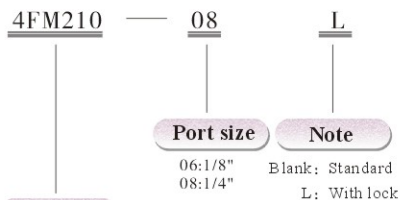


■ Specification

Model	4FM210-06	4FM210-06L	4FM210-08	4FM210-08L
Type	4 port 2 position			
Fluid	Air(to be filtered by 40 μ filter element)			
Operating	Direct acting			
Port size	In=Out= 1/8"		In=Out=1/4"	
Pressure range	0~8.0bar (0~0.8MPa)(0~114Psi)			
Temperature range ℃	-5~60			
Lubrication	Not required			

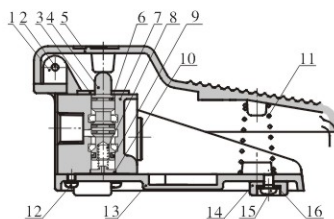
*Note: PT、NPT、BSP Thread are available.

■ Ordering code



4FM210: 4/2 way foot pedal valve(mini type)

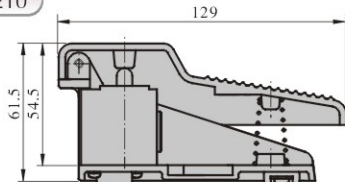
■ Inner structure



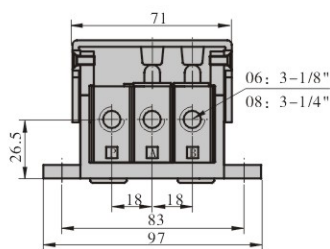
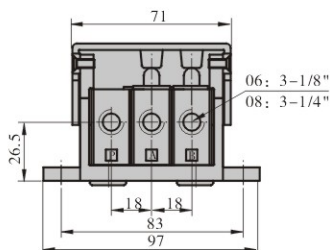
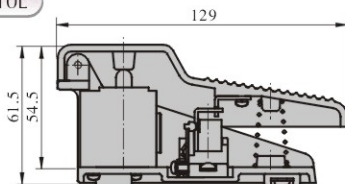
NO.	Item
1	Pin
2	Seew
3	Plate
4	Spool
5	Pedal
6	Sool spring
7	Body
8	Spool spring
9	Spool O-ring
10	Spring seat
11	Pedal spring
12	Screw
13	Base
14	Base
15	Screw
16	Gasket

Note: Lockable type should be added lubricating grease periodically to ensure the regular work of machine.

4FM210



4FM210L



FLOW CONTROL VALVE

ASC SERIES

AIRTAC

■ Symbol



■ Specification

Type	ASC100-06	ASC200-08	ASC300-10	ASC300-15
Media	Air(to be filtered by 40μ filter element)			
Port size	1/8"	1/4"	3/8"	1/2"
Pressure range	0.05~0.95MPa(0.5~9.5 bar)(7~135psi)			
Proof pressure	15.0 bar (1.5MPa)(213Psi)			
Temperature range	-5~60°C			
Material of body	Aluminum alloy6061-T6		Aluminum alloyADC-12	
Flow (L/min)*	Control flow	200	450	1250
	Free flow	400	800	1500

Flow testing condition:
controlled flow: supply pressure 6 bar; pressure difference 1 bar
free flow: supply pressure 6 bar
temp. 20°C

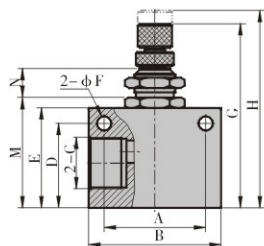
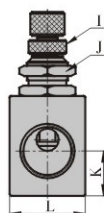
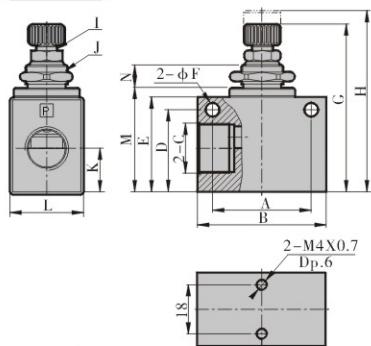
*Note: PT, NPT, BSPP Thread are available.



■ Ordering code

ASC	300	10
Model	Code	Port size
ASC: Flow control valve	100: 100 series	06: 1/8"
	200: 200 series	08: 1/4"
	300: 300 series	10: 3/8"
		15: 1/2"

■ Dimensions



Type	ASC100	ASC200	ASC300	ASC300	Type	ASC100	ASC200	ASC300	ASC300
Item	-06	-08	-10	-15	Item	-06	-08	-10	-15
A	22	26	35	35	H	52.3	56.3	74	74
B	32	36	50	50	I	M6 × 0.5	M6 × 0.5	M8 × 0.75	M8 × 0.75
C	1/8"	1/4"	3/8"	1/2"	J	M12 × 0.75	M12 × 0.75	M16 × 1.0	M16 × 1.0
D	18	23	32	32	K	10	13.5	17.5	17.5
E	23	27	37	37	L	18	18	28	28
F	4.3	4.3	5.3	5.3	M	26	30	40.5	40.5
G	46.8	50.8	65	65	N	8.6	8.6	10.2	10.2

■ Flow chart

