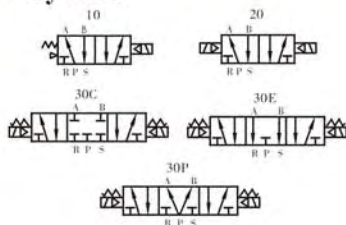


SOLENOID VALVE(5/2 5/3 WAY)

4V100 SERIES



Symbol

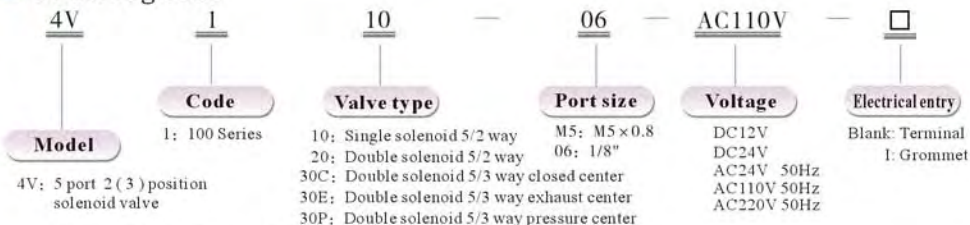


Specification

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°C (23~140°F)									
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

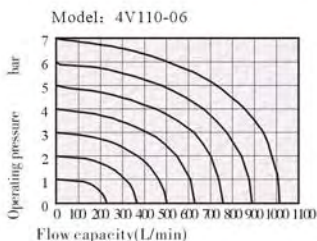
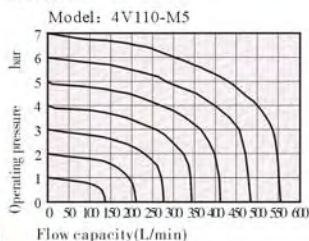
*Note: PT, NPT, BSPP Thread are available.

Ordering code



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

Flow chart



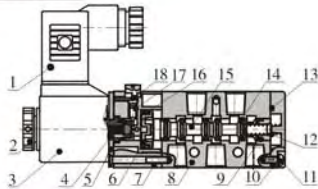
SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

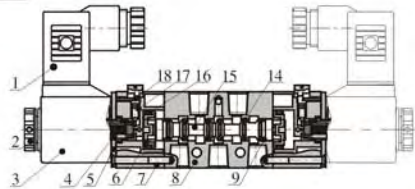
4V100 SERIES

Inner structure

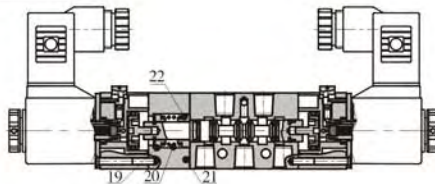
4V110



4V120



4V130C



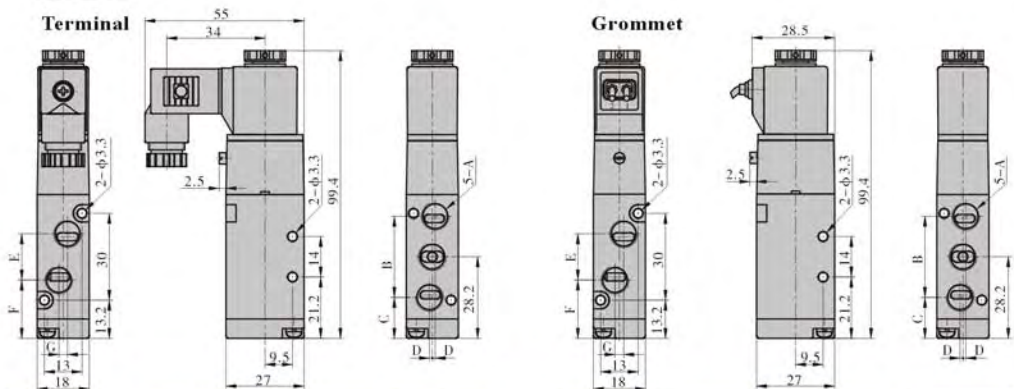
NO.	Item	NO.	Item
1	Connector	2	Nut
3	Coil	4	Armature assembly
5	Fixed plate	6	Piston
7	Pilot kit	8	Body
9	Wearing ring	10	Bottom cover
11	Fixed screw	12	Spool spring
13	Bottom cover gasket	14	Spool O-ring
15	Spool	16	Piston O-ring
17	Override spring	18	Manual override
19	Spring holder	20	Return spring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

4V110



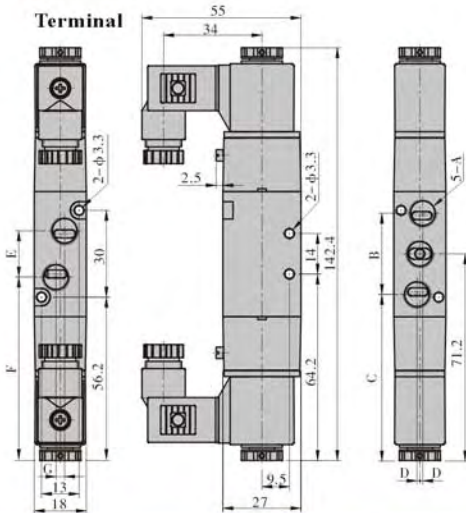
Model \ Item	A	B	C	D	E	F	G
4V110-M5	M5 × 0.8	27	14.7	0	14	21.2	0
4V110-06	1/8"	28	14.2	1	16	20.2	3

SOLENOID VALVE(5/2 5/3 WAY)

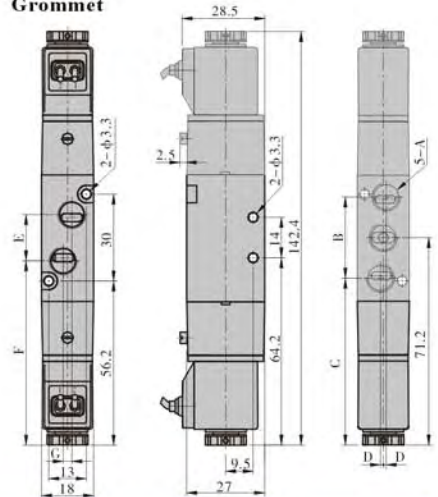
4V100 SERIES

4V120

Terminal



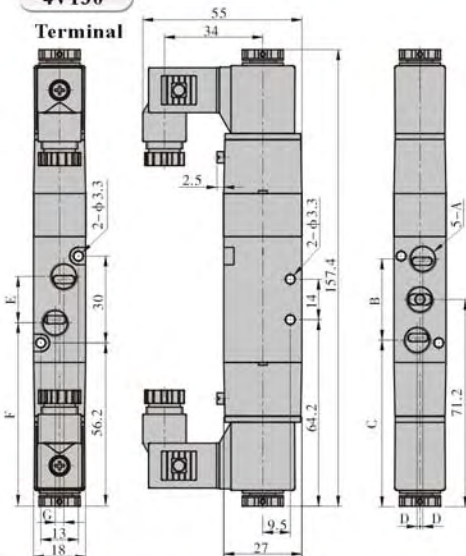
Grommet



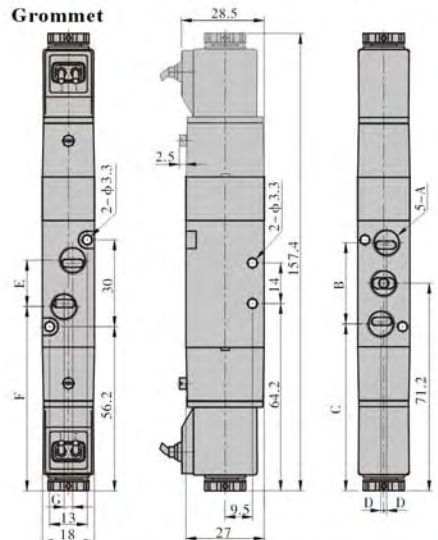
Model \ Item	A	B	C	D	E	F	G
4V120-M5	M5 × 0.8	27	57.7	0	14	64.3	0
4V120-06	1/8"	28	57.2	1	16	63.2	3

4V130

Terminal



Grommet



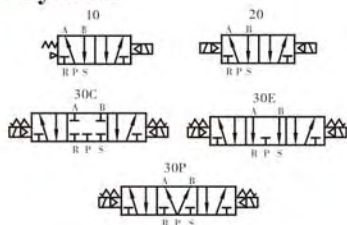
Model \ Item	A	B	C	D	E	F	G
4V130-M5	M5 × 0.8	27	57.7	0	14	64.3	0
4V130-06	1/8"	28	57.2	1	16	63.2	3



SOLENOID VALVE(5/2 5/3 WAY)

4V200 SERIES

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°C (23-140°F)										
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	

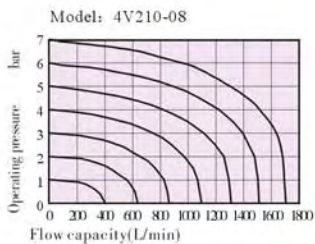
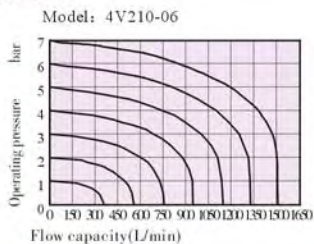
*Note: PT, NPT, BSPP Thread are available.

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 1-27 for manifold type and ordering.

Flow chart

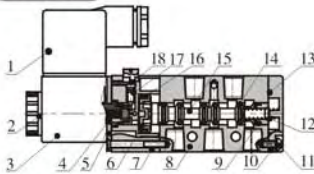


SOLENOID VALVE(5/2 5/3 WAY)

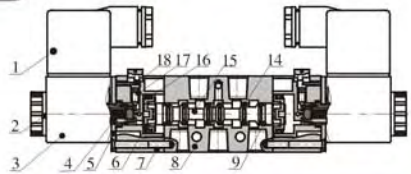
4V200 SERIES

Inner structure

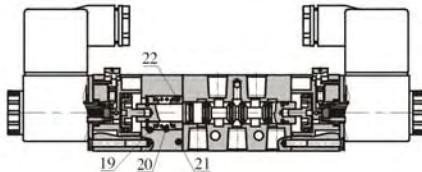
4V210



4V220



4V230C



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

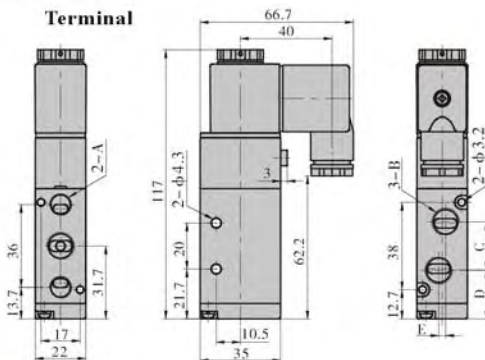
Material of major parts

Item	4V210	4V220	4V230	Item	4V210	4V220	4V230	Item	4V210	4V220	4V230
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		

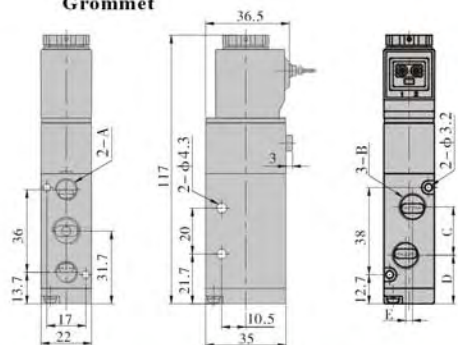
Dimensions

4V210

Terminal



Grommet



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

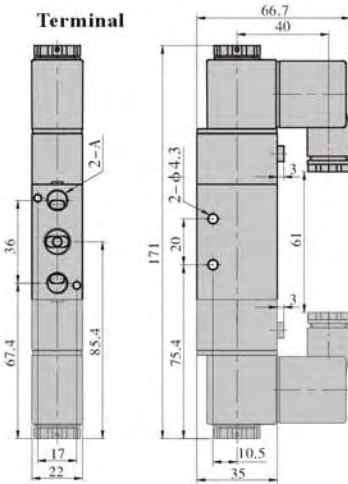


SOLENOID VALVE(5/2 5/3 WAY)

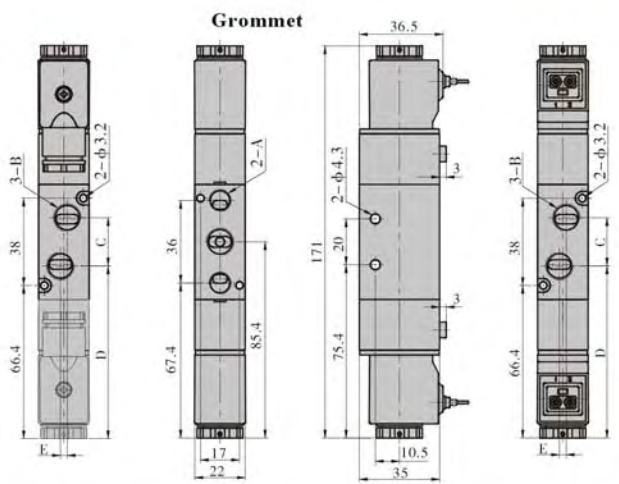
4V200 SERIES

4V220

Terminal



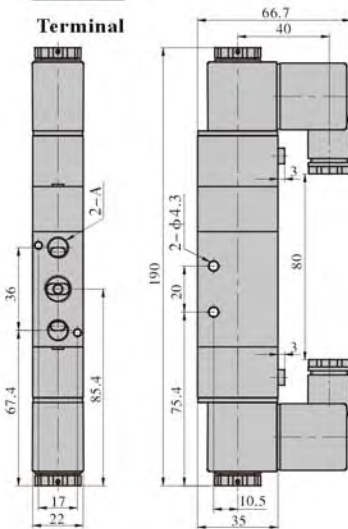
Grommet



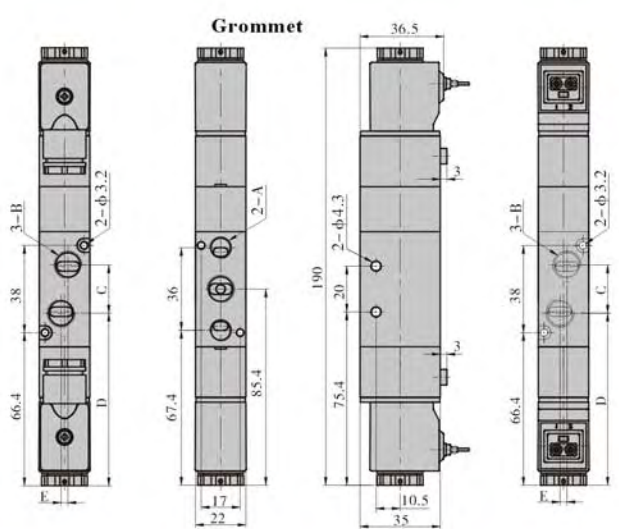
Model \ Item	A	B	C	D	E
4V 220-06	1/8"	1/8"	18	76.4	0
4V 220-08	1/8"	1/4"	21	74.9	3

4V230

Terminal



Grommet



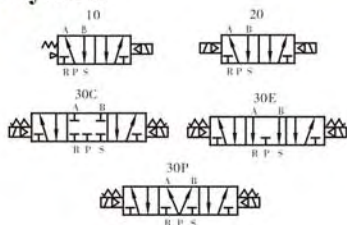
Model \ Item	A	B	C	D	E
4V 230-06	1/8"	1/8"	18	76.4	0
4V 230-08	1/8"	1/4"	21	74.9	3

SOLENOID VALVE(5/2 5/3 WAY)

4V300 SERIES



Symbol

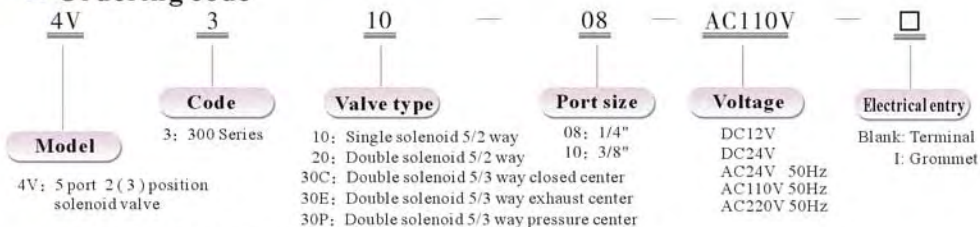


Specification

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°C(23~140°F)									
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

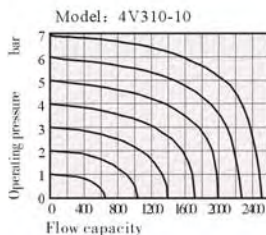
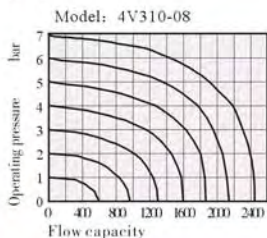
*Note: PT, NPT, BSPP Thread are available.

Ordering code



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

Flow chart

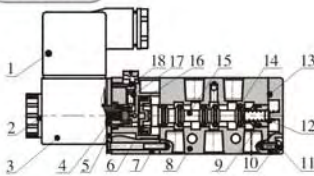


SOLENOID VALVE(5/2 5/3 WAY)

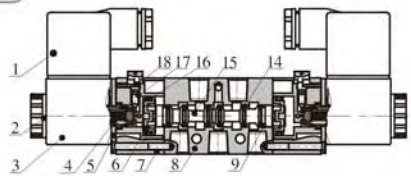
4V300 SERIES

Inner structure

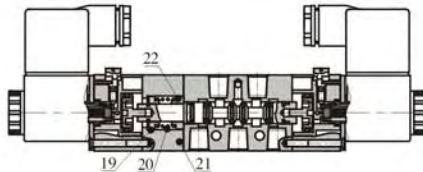
4V310



4V320



4V330C



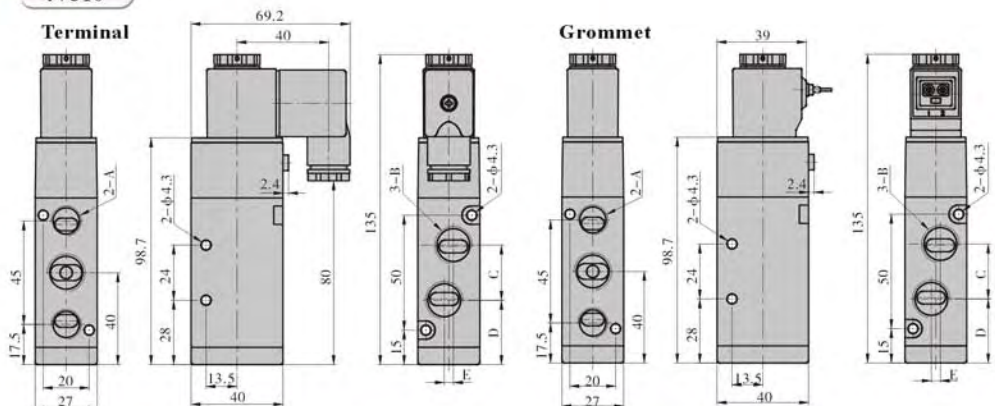
NO.	Item	NO.	Item
1	Connector	2	Nut
3	Coil	4	Armature assembly
5	Fixed plate	6	Piston
7	Pilot kit	8	Body
9	Wearing ring	10	Bottom cover
11	Fixed screw	12	Spool spring
13	Bottom cover gasket	14	Spool O-ring
15	Spool	16	Piston O-ring
17	Override spring	18	Manual override
19	Spring holder	20	Return spring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

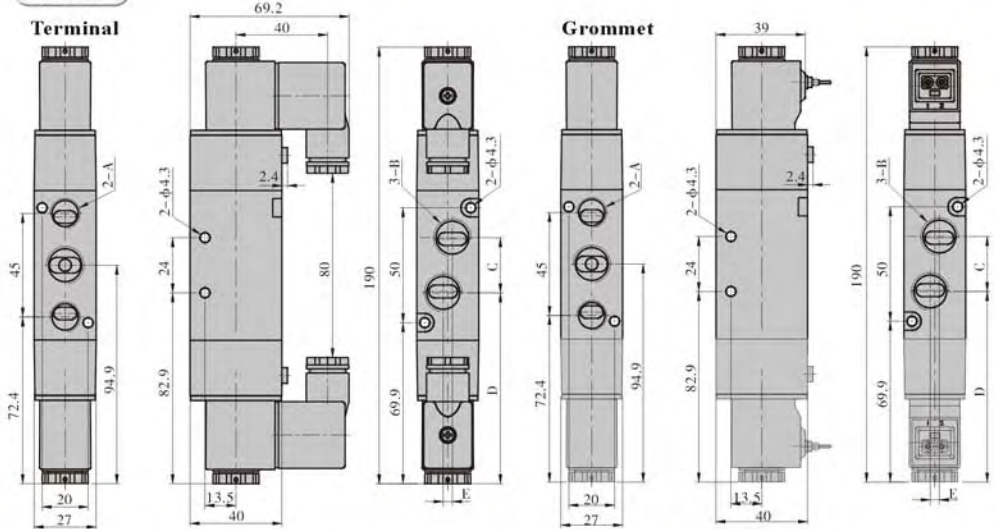


Model \ Item	A	B	C	D	E
4V310-08	1/4"	1/4"	22	29	0
4V310-10	1/4"	3/8"	24	28	4

SOLENOID VALVE(5/2 5/3 WAY)

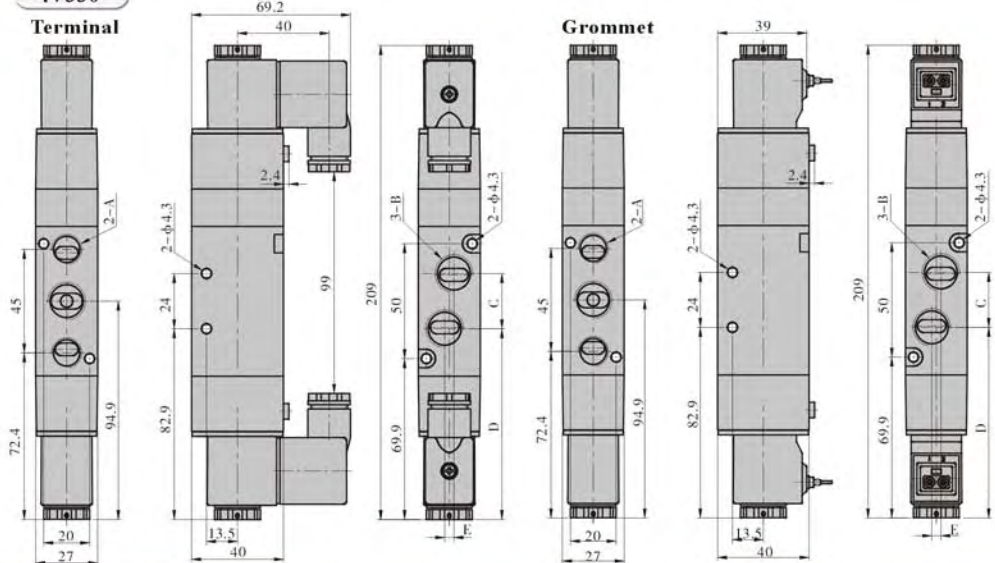
4V300 SERIES

4V320



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



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

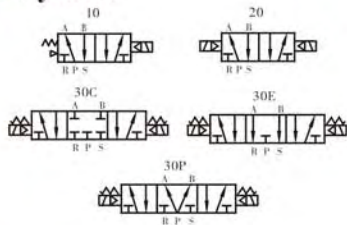


SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

4V400 SERIES

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 °C (23~140°F)				
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

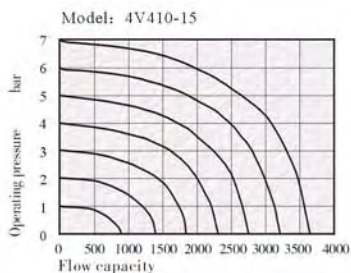
*Note: PT, NPT, BSPP Thread are available.

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 AC24V 50Hz AC110V 50Hz AC220V 50Hz	Blank: Terminal I: Grommet

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

Flow chart



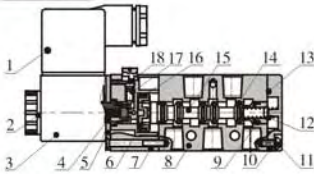
SOLENOID VALVE(5/2 5/3 WAY)

4V400 SERIES

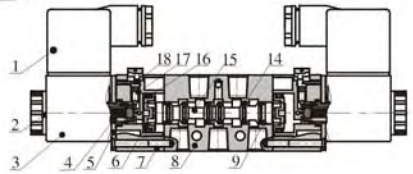


Inner structure

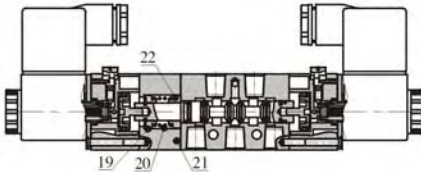
4V410



4V420



4V430C



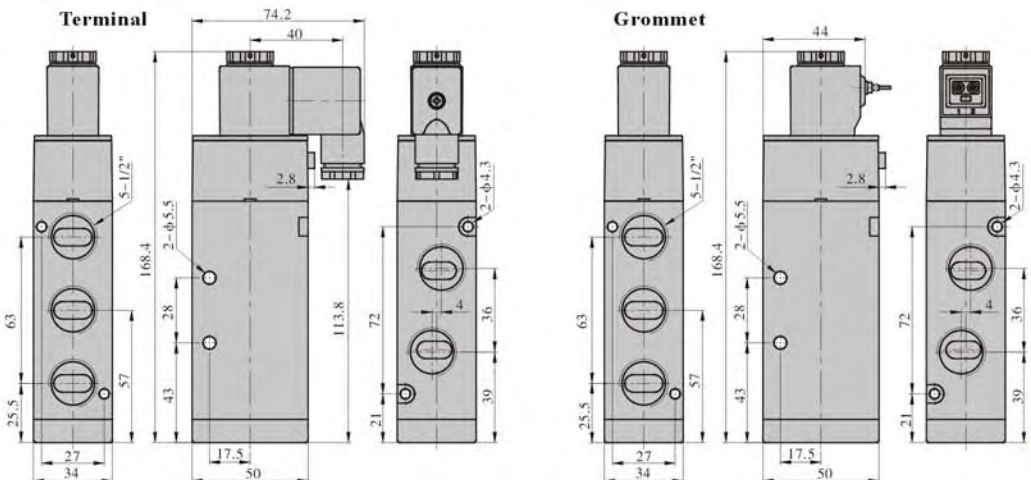
NO.	Item	NO.	Item
1	Connector	2	Nut
3	Coil	4	Armature assembly
5	Fixed plate	6	Piston
7	Pilot kit	8	Body
9	Wearing ring	10	Bottom cover
11	Fixed screw	12	Spool spring
13	Bottom cover gasket	14	Spool O-ring
15	Spool	16	Piston O-ring
17	Override spring	18	Manual override
19	Spring holder	20	Return spring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



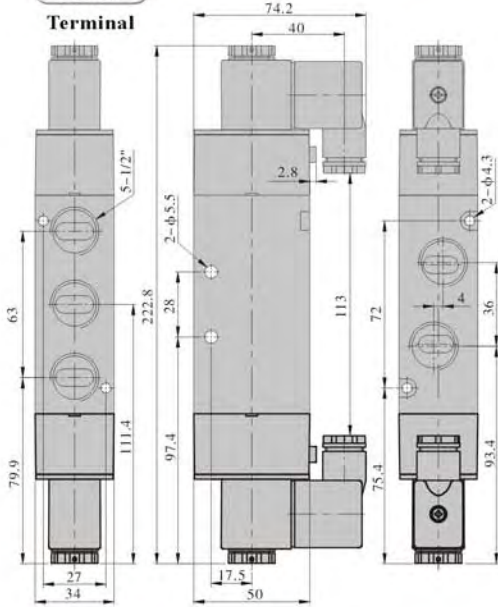
SOLENOID VALVE(5/2 5/3 WAY)

AIRTAC

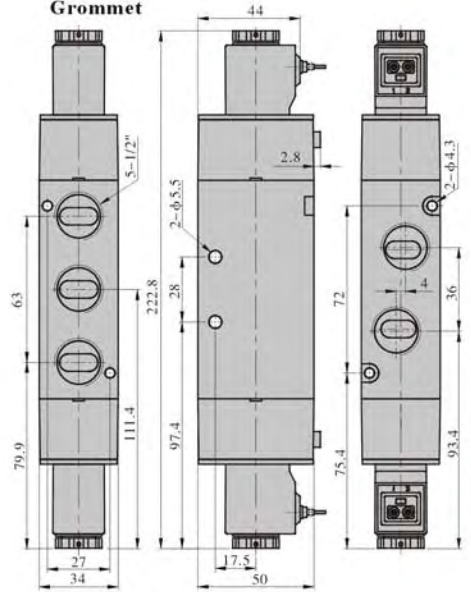
4V400 SERIES

4V420

Terminal

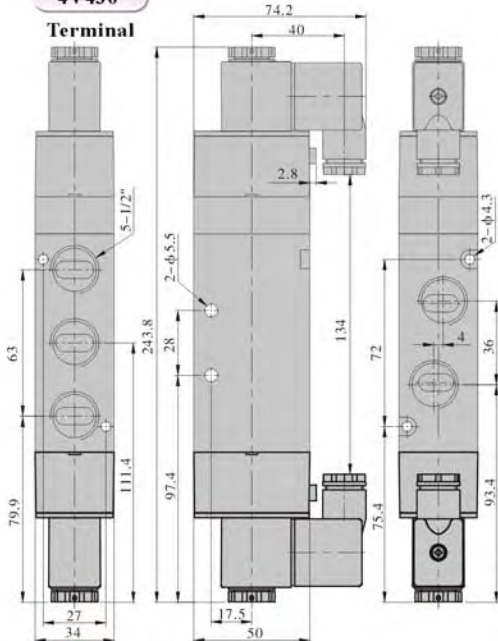


Grommet



4V430

Terminal



Grommet

