



Solenoid valve(3/2, 5/2, 5/3 way)

Product series

Solenoid valve: 3V1Series 14



Solenoid valve: 3V2 Series 16



Solenoid valve: 3V3 Series 18



Solenoid valve: 3V100 Series 20



Solenoid valve: 3V200 Series 22



Solenoid valve: 3V300 Series 24



Solenoid valve: 4V100 Series 26



Solenoid valve: 4V200 Series 28



Solenoid valve: 4V300 Series 30



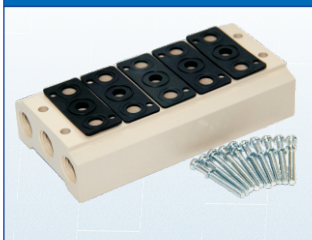
Solenoid valve: 4V400 Series 32



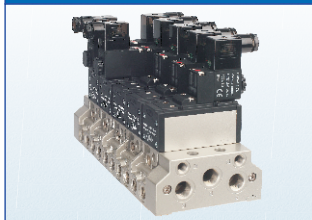
Solenoid valve: 4M(NAMUR) Series 34



Manifold 36



Solenoid valve(ISO standard): ESV Series 38



Installation and Application

1. Before installing, be sure the valve hasn't been damaged via transportation.
2. It's suggested to use the medium lubricated by 40 μ m filter element. Be aware of the flow direction and port size.
3. Please notice whether the installation condition accords with technical requirements (such as "voltage", "actuation frequency", "working pressure" and "scope of application temperature"), then the equipment can be installed and used.
4. Notice the flow direction of air during installation, P is the air intake, A (B) is the work port and R (S) is the exhaust outlet.
5. Take measure to avoid vibration and frozen.
6. Before using the fittings and tubes make sure they are clean. When connecting to fittings, be sure the PTFE Thread Seal Tape is used correctly.
7. To keep the dust away, please use the silencer for the exhaust ports. Never forget to install dirt-proof boot in air intake and outlet during dismounting.
8. After installing, please use the manual override to test valve first.



Solenoid valve(3/2 way)



3V1 Series



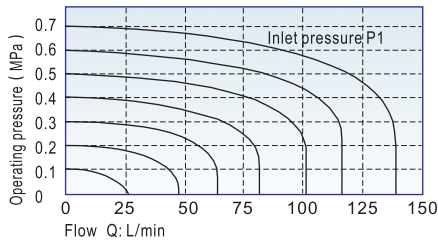
Symbol



Product feature

- 1. Direct acting type and normally closed mode, flexible in direction change.
- 2. No need to add oil for lubrication.
- 3. Several valves can be installed integrately to save installation space.
- 4. Affiliated manual devices are equipped to facilitate installation and debugging.
- 5. Several standard voltage grades are optional.

Flow chart



Ordering code

3V 1 06 A

Model

3V: Solenoid valve (3/2 way)

Code

1: 1 Series

Port size

M5: M6
06: 1/8"

Voltage

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

Valve's code

Blank: Use for series
D: Use for single

Thread type

Port size Thread type
1/8" Blank: PT
M5 T: NPT
G: G
Not this code

Electrical entry

Blank: Terminal
I: Grommet

Specification

Model	3V1-M5	3V1-06
Fluid	Air(to be filtered by 40 μ m filter element)	
Acting	Direct acting	
Port size ①	M5	1/8"
Valve type	3 port 2 position	
Lubrication	Not required	
Operating pressure	0~0.8MPa(0~114psi)	
Proof pressure	1.5MPa(215psi)	
Temperature °C	-20~70	
Orifice size	Φ 1.2mm	
Material of body	Aluminum alloy	

① PT thread, NPT thread and G thread are available.

Coil specification

Item	Specification
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V
Scope of voltage	AC: ± 15% DC: ± 10%
Power consumption	AC:3.5VA DC:3.0W
Protection	IP65(DIN40050)
Temperature classification	B Class
Electrical entry	Terminal, Grommet
Activating time	0.05 sec and below
Max. frequency ①	10 cycle/sec

① The maximum actuation frequency is in the no-load state.

Inner structure

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

Dimensions

Terminal(Series)

Grommet(Series)

Terminal(Single)

Grommet(Single)

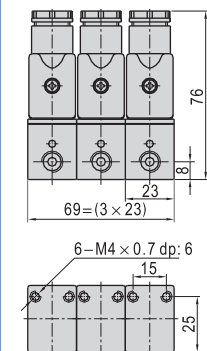
Solenoid valve(3/2 way)

3V1 Series

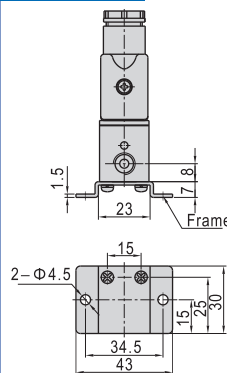


Series connection

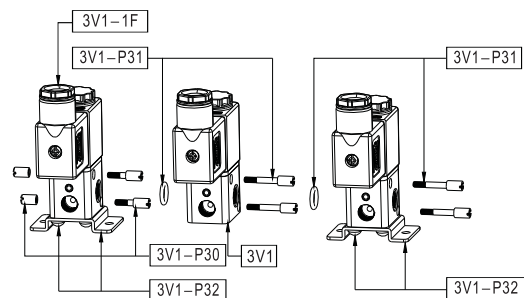
Dimensions(3F)



Dimensions(1F)



How to joint



Product structure

Connection Amount\Q.TY	3V1	3V1-P30	3V1-P31	3V1-P32
3V1-□-□-1F	1	0	0	1
3V1-□-□-2F	2	1	1	1
.....		1		
3V1-□-□- nF	n	1	n-1	2

Note: n is the number of junction valve, and n ≥ 3

Ordering code for series

3V1 06 A □ 3F □

Model

3V: Solenoid valve(3/2 way)

Port size

M5: M6
06: 1/8"

Voltage

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

Electrical entry

Blank: Terminal
I: Grommet

Thread type

Port size	Thread type
1/8"	Blank: PT
	T: NPT
	G: G
M5	Not this code

Number of stations

1F: 1 Station
2F: 2 Station
3F: 3 Station
.....
20F: 20 Station

The above codes have included the series accessories, so it is unnecessary to order the accessories specially. But if you like, you could order as follows.

Code of accessories	Accessory name	Part code	Part name	Quantity
3V1-P30	Coupling screw assembly	F-3V1002B	Coupling screw(S)	2
		F-3V1003B	Coupling screw(M)	2
3V1-P31	Coupling screw assembly	GOR20008N75	O-Ring	1
		F-3V1004B	Coupling screw(L)	2
3V1-P32	Bracket assembly	F-3V1001B	Fixed mounting	1
		GSDA04008ZA	Cross round head screw	2



3V1

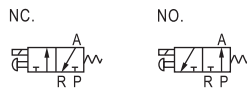
Solenoid valve(3/2 way)

AIRTAC

3V2 Series



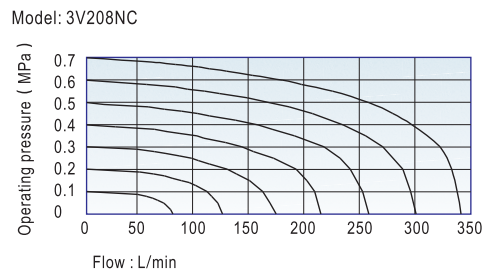
Symbol



Product feature

1. Direct acting type and normally closed mode, flexible in direction change.
2. Normally closed and normally open types are optional.
3. Structure in coaxial blanking mode: leakage proof and large air flow.
4. No need to add oil for lubrication.
5. Affiliated manual devices are equipped to facilitate installation and debugging.
6. Several standard voltage grades are optional.

Flow chart



Specification

Model	3V206	3V208
Fluid	Air(to be filtered by 40 μm filter element)	
Acting	Direct acting	
Port size ①	1/8"	1/4"
Valve type	3 port 2 position	
Orifice size	3.2mm ² (Cv=0.18)	3.4mm ² (Cv=0.19)
Lubrication	Not required	
Operating pressure	0~0.8MPa(0~114psi)	
Proof pressure	1.5MPa(215psi)	
Temperature °C	-20~70	
Material of body	Aluminum alloy	

① PT thread, NPT thread and G thread are available.

Coil specification

Item	Specification
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V
Scope of voltage	AC: ± 15% DC: ± 10%
Power consumption	AC: 7VA DC: 7.0W
Protection	IP65(DIN40050)
Temperature classification	B Class
Electrical entry	Terminal, Grommet
Activating time	0.05 sec and below
Max. frequency ①	10 cycle/sec

① The maximum actuation frequency is in the no-load state.

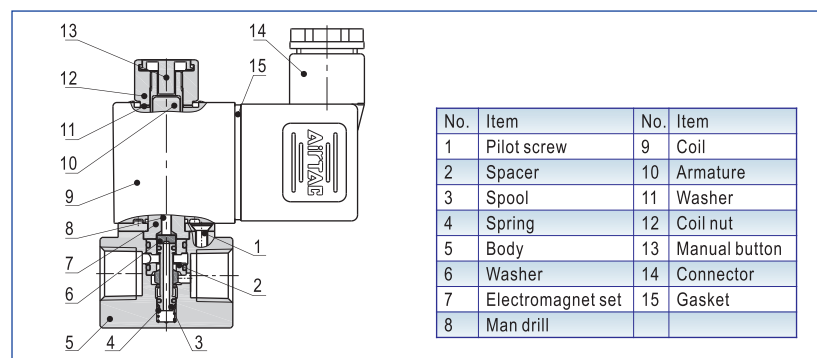
Ordering code

3V 2 08 NC A □ □			
Model	3V: Solenoid valve(3/2 way)	Thread type	Blank: PT T: NPT G: G
Code	2: 2 Series	Electrical entry	Blank: Terminal I: Grommet
Port size	06: 1/8" 08: 1/4"	Voltage	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V
Acting type	NC: Normally closed NO: Normally opened		

Ordering code of accessories

F-3V2 FA	
Accessories code	Accessories type
F: Mounting accessories	FA: FA Bracket
Valve type	
3V2: Solenoid valve(3/2 way)	

Inner structure



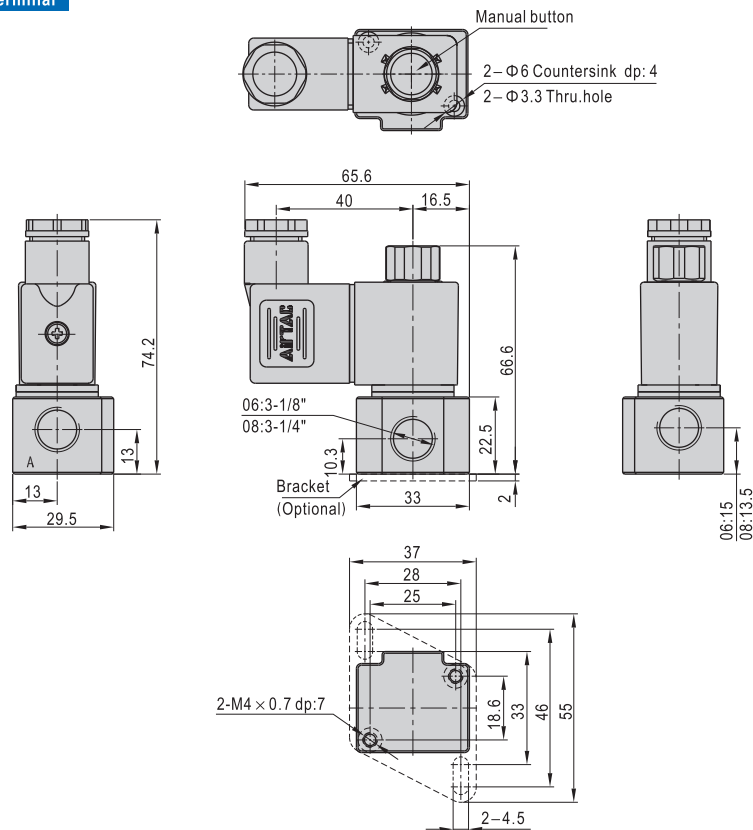
Solenoid valve(3/2 way)

AirTAC

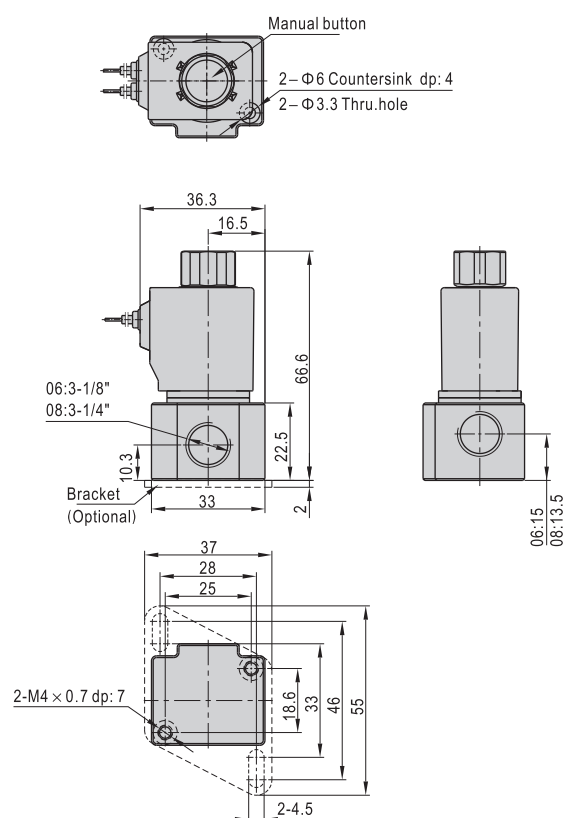
3V2 Series

■ Dimensions

Terminal



Grommet



Solenoid valve(3/2 way)

3V3 Series

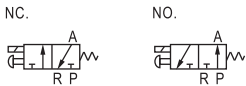


Specification

Model	3V308
Fluid	Air(to be filtered by 40 μ m filter element)
Acting	Direct acting
Port size ①	1/4"
Valve type	3 port 2 position
Orifice size	11mm ² (Cv=0.62)
Lubrication	Not required
Operating pressure	0~0.8MPa(0~114psi)
Proof pressure	1.5MPa(215psi)
Temperature ℃	-20~70
Material of body	Aluminum alloy

① PT thread, NPT thread and G thread are available.

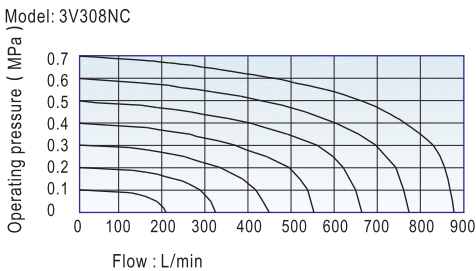
Symbol



Product feature

1. Direct acting type and normally closed mode, flexible in direction change.
2. Normally closed and normally open types are optional.
3. Structure in coaxial blanking mode: leakage proof and large air flow.
4. No need to add oil for lubrication.
5. Affiliated manual devices are equipped to facilitate installation and debugging.
6. Several standard voltage grades are optional.

Flow chart



Coil specification

Item	Specification
Standard voltage	AC220V, AC110V, AC24V, DC24V, DC12V
Scope of voltage	AC: ± 15% DC: ± 10%
Power consumption	AC: 10VA DC: 6.5W
Protection	IP65(DIN40050)
Temperature classification	B Class
Electrical entry	Terminal, Grommet
Activating time	0.05 sec and below
Max. frequency ①	10 cycle/sec

① The maximum actuation frequency is in the no-load state.

Ordering code

3V 3 08 NC A □ □			
Model	3V: Solenoid valve(3/2 way)	Thread type	Blank: PT T: NPT G: G
Code	3: 3 Series	Electrical entry	Blank: Terminal I: Grommet
Port size	08: 1/4"	Voltage	A: AC220V B: DC24V C: AC110V E: AC24V F: DC12V
Acting type	NC: Normally closed NO: Normally opened		

Inner structure

No.	Item	No.	Item
1	Pilot screw	9	Coil
2	Spool	10	Armature
3	Spring	11	Washer
4	Body	12	Coil nut
5	Washer	13	Manual button
6	Spacer	14	Gasket
7	Electromagnet set	15	Connector
8	Man drill		



Solenoid valve(3/2 way)



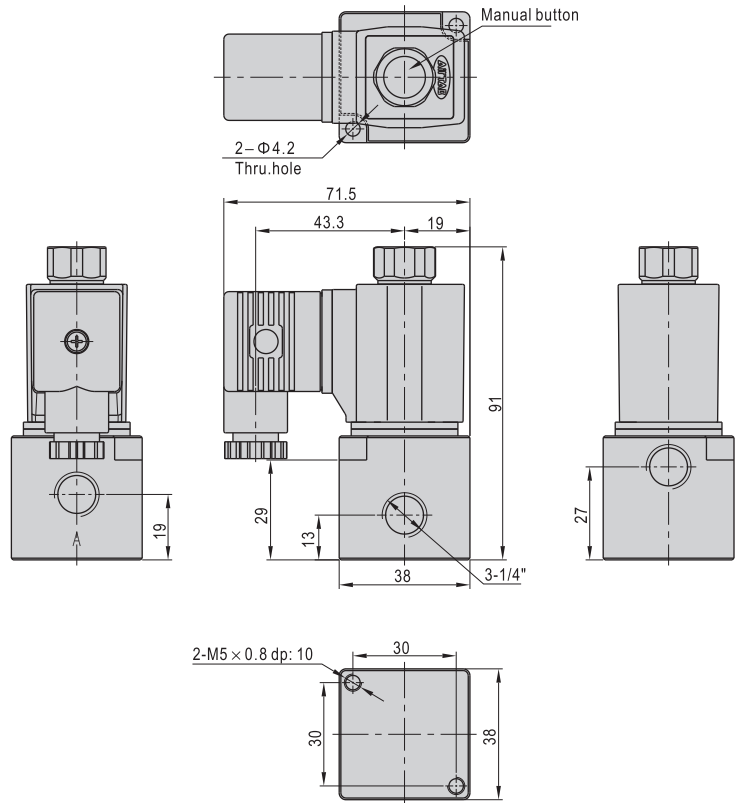
3V3 Series



3V3

■ Dimensions

Terminal



Grommet

