

# Fluid control valve(2/2way)



## 2V Series



### Symbol



### Product feature

#### 2V025 series

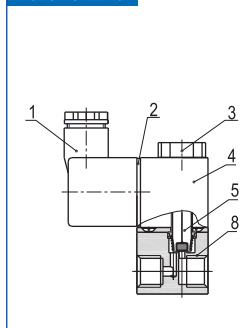
1. Direct acting and normally closed type 2/2 way solenoid valve. Its high sensibility allows it to change direction quickly.
2. The structure is small and compact.
3. The valve body is made of brass which is heat resistance and the coil conforms to Class B classification. The seals are made of fluorine rubber (VITON) which is suitable for several types of working medium.

#### 2V130 and 250 series

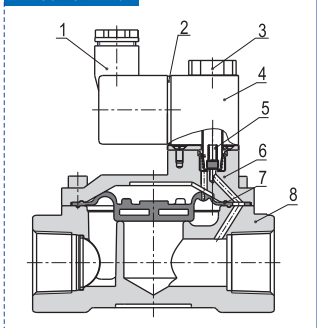
1. This 2/2 way diaphragm piloted solenoid valve has low energy consumption and large air flow .
2. The starting pressure is low and the operational differential pressure is < 0.05MPa.
3. The valve body is made of brass which is heat resistance and the coil conforms to Class B classification . The seals are made of NBR.

### Inner structure

#### 2V025 Terminal



#### 2V250 Terminal



No.	Item	No.	Item	No.	Item	No.	Item
1	Connector	3	Nut	5	Armature assembly	7	Diaphragm
2	Connector gasket	4	Coil	6	Body cover	8	Body

### Specification

Model	2V025-06	2V025-08	2V130-10	2V130-15	2V250-20	2V250-25
Fluid	Air, Water, Oil					
Acting	Direct acting			Internally piloted acting		
Type	Normally closed					
Orifice size(Φ mm)	2.5	2.5	13.0	13.0	25.0	25.0
Cv valve	0.23	0.25	6.20	6.20	13.00	13.00
Port size ①	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Viscosity limit	Under 20CST					
Pressure range	0~1.0MPa(0~145psi)			0.05~1.0MPa(7~145psi)		
Proof pressure	1.5MPa(215psi)					
Material body	Brass with zinc plated			Brass		
Seal material	VITON			NBR		
Min. activating time sec	0.05 sec and below					

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

### Specification of coil

Valve type	Power type	Frequency (Hz)	Voltage range	Electrical entry	Power Consumption (VA/W)	Insulation	Temp. rise(°C)
2V025	AC	50	± 15%	Terminal	7.0VA	Class B	35
2V130		60					
2V250	DC	-	± 10%	Gromment	7.0W		45

### Ordering code

**2V 025 08 A □ P**

- Model**
  - 2V: 2 port 2 position solenoid valve
- Orifice size**
  - 025: Φ 2.5mm
  - 130: Φ 13mm
  - 250: Φ 25mm
- Port size**

Orifice size	Port size
Φ 2.5mm	06: 1/8"
Φ 13mm	08: 1/4"
	10: 3/8"
	15: 1/2"
Φ 25mm	20: 3/4"
	25: 1"
- Thread type**
  - P: PT
  - T: NPT
  - G: G
- Electrical entry**
  - Blank: Terminal
  - I: Gromment
- Voltage**
  - A: AC220V
  - B: DC24V
  - C: AC110V
  - E: AC24V
  - F: DC12V

### Usable fluid

Seal material\Fluid	Water	Dry air	Acetone*	ISOVG32 oil	Glycol*	Nitrogen	Heavy oil
NBR	○	○	△	○	○	○	○
Seal material\Fluid	JIS# 1 Oil	JIS#3 Oil	Vegetable Oil	Inorganic Oil	Start Oil	Silicagel Oil	CO <sub>2</sub> , Argon
NBR	○	○	○	○	○	○	○

1 Note: ○= Excellent(nearly without affect). ○= Good(workable thought some affect). △= Poor(large affect).

2 Note: “\*” means inflamnable and explosive dangerous fluid. Please use the relative explosion proof coil.

3 Note: Please consult the technical department before using fluid that has not been shown in the above table.

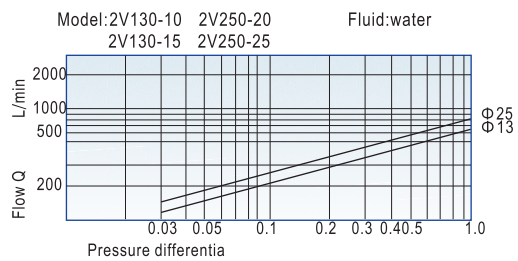
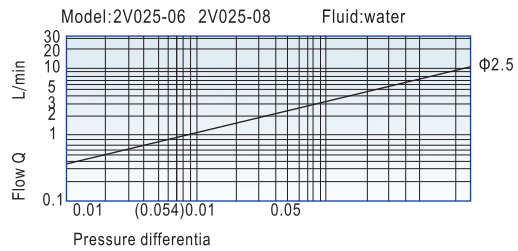
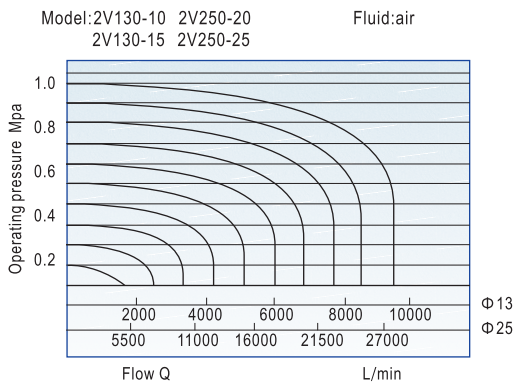
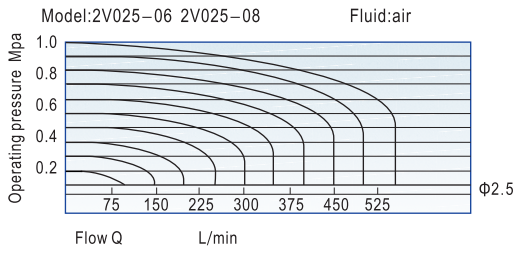


# Fluid control valve(2/2way)



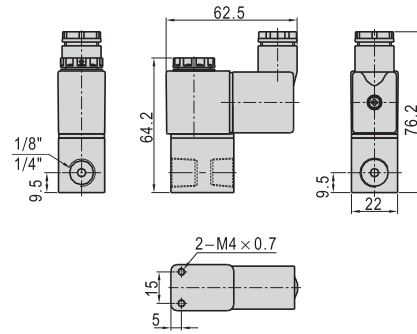
## 2V Series

### Flow chart

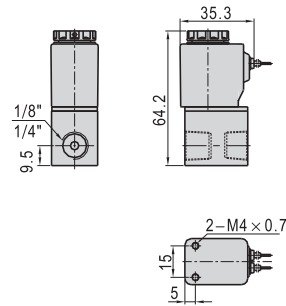


### Dimensions

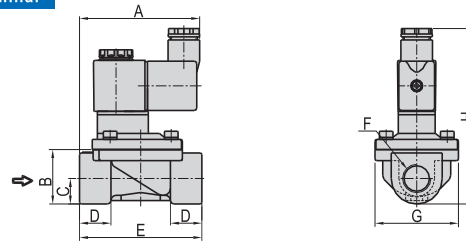
#### 2V025 Terminal



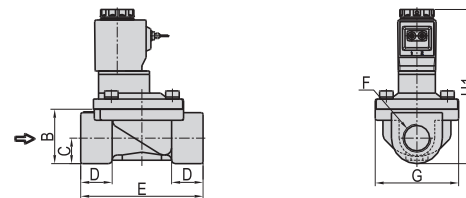
#### 2V025 Grommet



#### 2V130, 250 Terminal



#### 2V130, 250 Grommet



Model\Item	A	B	C	D	E	F	H	H1
2V130-10	70.7	32	15	18.5	72	3/8"	49	103.2
2V130-15	70.7	32	15	18.5	72	1/2"	49	103.2
2V250-20	73.7	45	21	23	102	3/4"	77.5	120
2V250-25	73.7	45	21	23	102	1"	77.5	120



# Fluid control valve(2/2way)



## 2P Series



2P

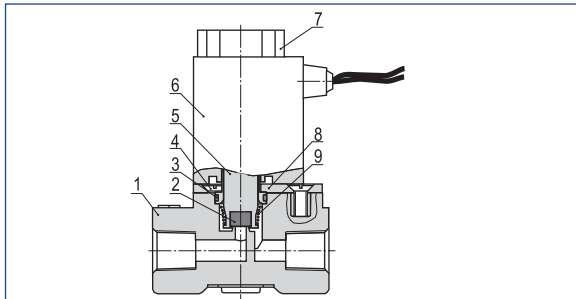
### Symbol



### Product feature

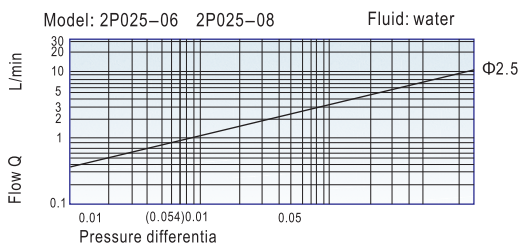
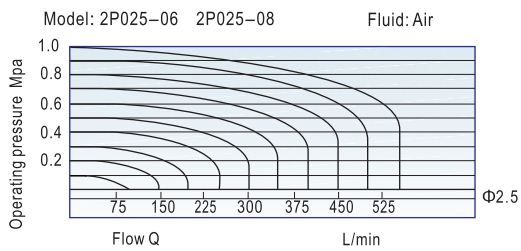
1. Direct acting and normally closed type 2/2 way solenoid valve. Its high sensibility allows it to change direction quickly.
2. Its compact size is small and light weight. It is easy to install and dismantle.
3. The valve body is made of Nylon 66. Its coil has a Heat resistance classification of Class B. The seals are made of Viton which is suitable for different types of fluid.
4. The protection class of the coil is IP65, and the electrical entry is grommet.

### Inner structure



No.	Item	No.	Item	No.	Item
1	Body	4	Pilot screw	7	Coil nut
2	Bottom cover gasket	5	Armature	8	Fixed plate
3	O-ring	6	Coil	9	Spring

### Flow chart



### Specification

Model	2P025-06	2P025-08
Fluid	Air, Water, Oil	
Acting	Direct acting	
Type	Normally closed	
Orifice size(Φ mm)	2.5	
Cv valve	0.23	
Port size	G1/8	G1/4
Viscosity limit	Under 20CST	
Pressure range	0~0.7MPa(0~100psi)	
Proof pressure	1.05MPa(150psi)	
Material body	Nylon 66	
Seal material	VITON	
Min. activating time sec	0.05 sec and below	

### Specification of coil

Valve type	Power type	Frequency (Hz)	Voltage range	Electrical entry	Power Consumption (VA/W)	Insulation	Temp. rise(°C)
2P025	AC	50	± 15%	Terminal Grommet	7.0VA	Class B	35
		60					
	DC	-	± 10%		7.0W		45

### Ordering code

**2P 025 08 A G**

- Model**: 2P:2 port 2 position solenoid valve(plastic steel type)
- Orifice size**: 025: Φ2.5mm
- Port size**: 06:G1/8, 08:G1/4
- Thread type**: G:G
- Voltage**: A:AC220V, B:DC24V, C:AC110V, E:AC24V, F:DC12V

### Dimensions

