

Fluid control valve(2/2way)

AIRTAC

2V Series



Symbol



Product feature

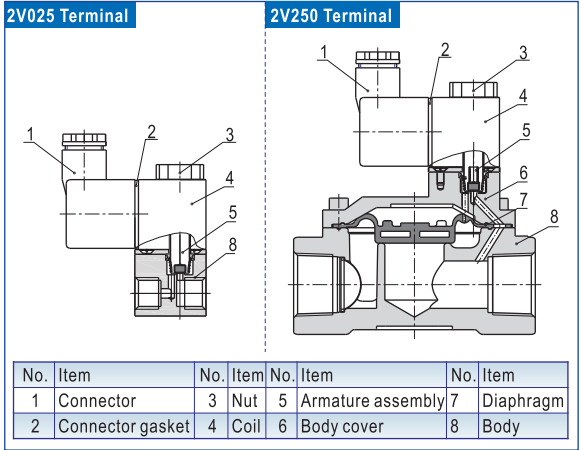
2V025 series

- 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



Specification

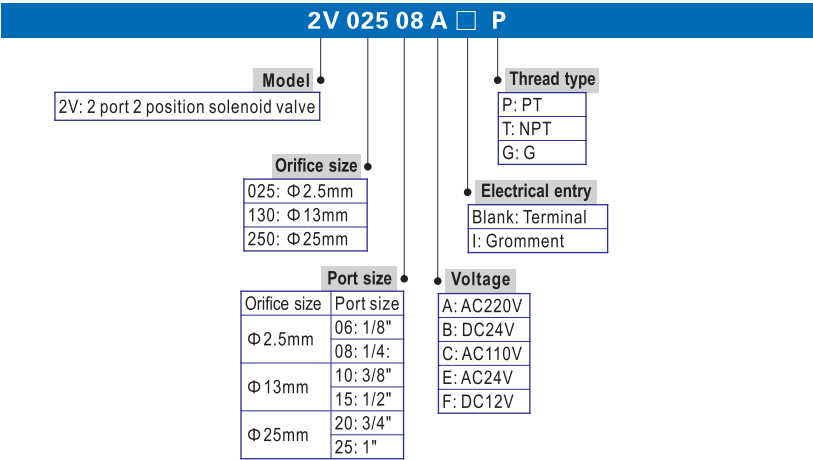
| Model | 2V025-06 | 2V025-08 | 2V130-10 | 2V130-15 | 2V250-20 | 2V250-25 |
|--------------------------|------------------------|----------|---------------------------|----------|----------|----------|
| Fluid | Air, Water, Oil | | | | | |
| Acting | Direct acting | | Internally piloted acting | | | |
| Type | Normally closed | | | | | |
| Orifice size(Φmm) | 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(℃) |
|------------|------------|----------------|---------------|-------------------|--------------------------|------------|---------------|
| 2V025 | AC | 50 | ± 15 % | Terminal Gromment | 7.0VA | Class B | 35 |
| 2V130 | DC | 60 | | | 7.0W | | 45 |
| 2V250 | DC | — | ± 10 % | | | | |

Ordering code



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 ₂ , Argon |
| NBR | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

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

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

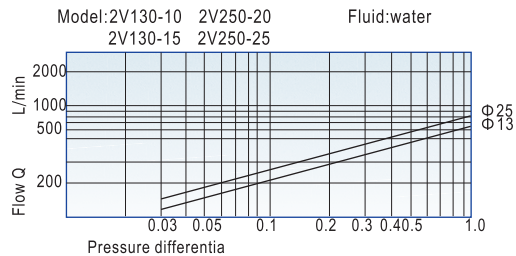
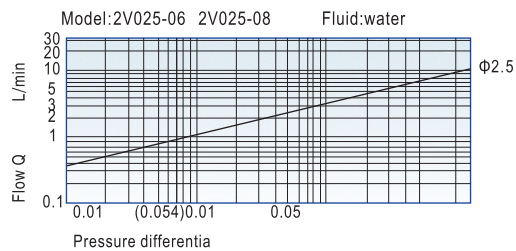
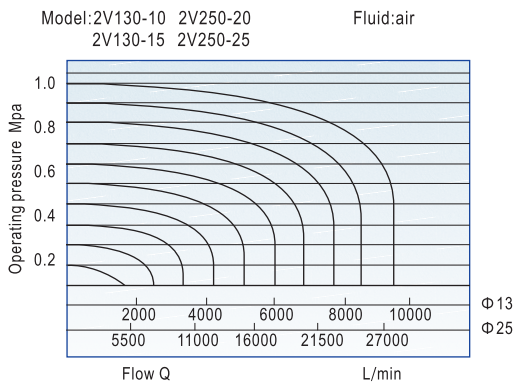
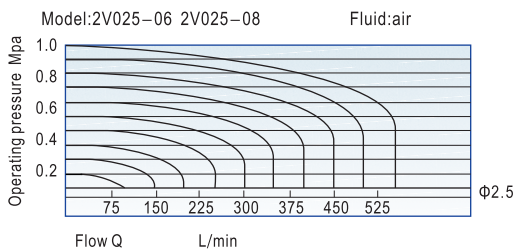
3 Note: Please consult the technical department before using fluid that has not been shown in the above table.

Fluid control valve(2/2way)



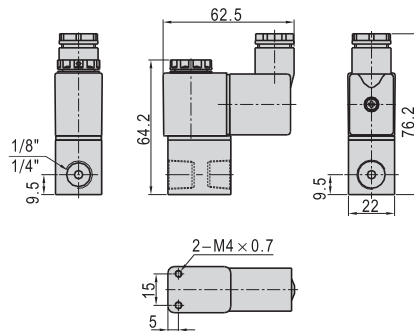
2V Series

Flow chart

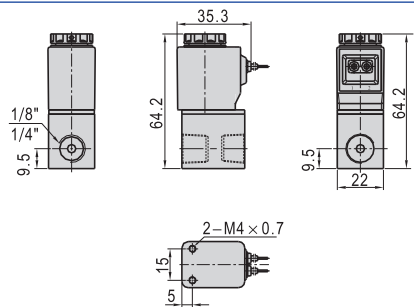


Dimensions

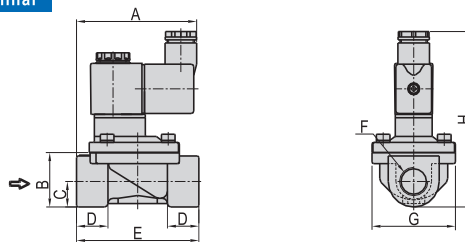
2V025 Terminal



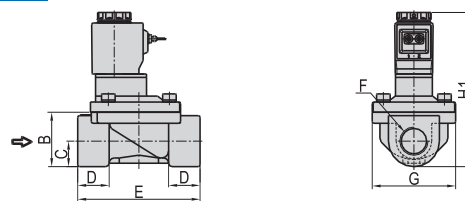
2V025 Grommet



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 |



2V

Fluid control valve(2/2way)



2P Series



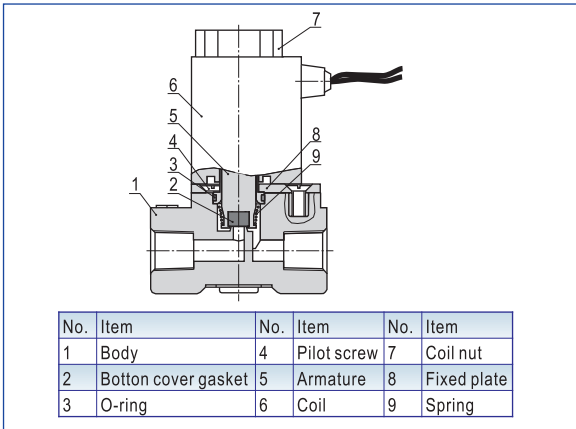
Symbol



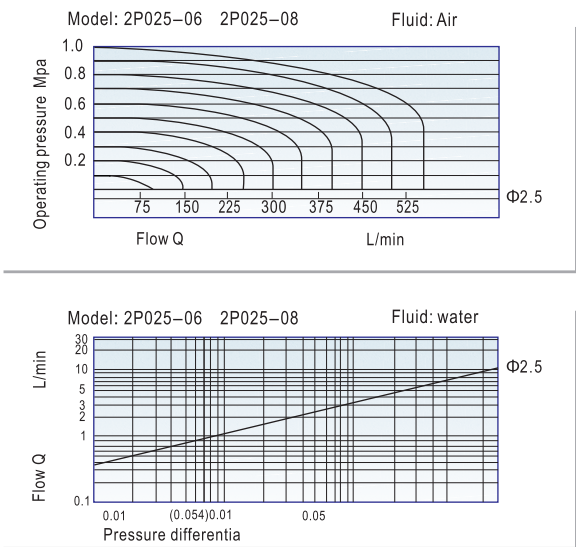
Product feature

- 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



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 siz | 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 | | | 7.0W | | 45 |
| | DC | — | ± 10 % | | 7.0W | | 45 |

Ordering code

2P 025 08 A G

Model: 2P:2 port 2 position solenoid valve(plastic steel type)

Thread type: G:G

Orifice size: 025:Φ2.5mm

Port size: 06:G1/8, 08:G1/4

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

Dimensions

