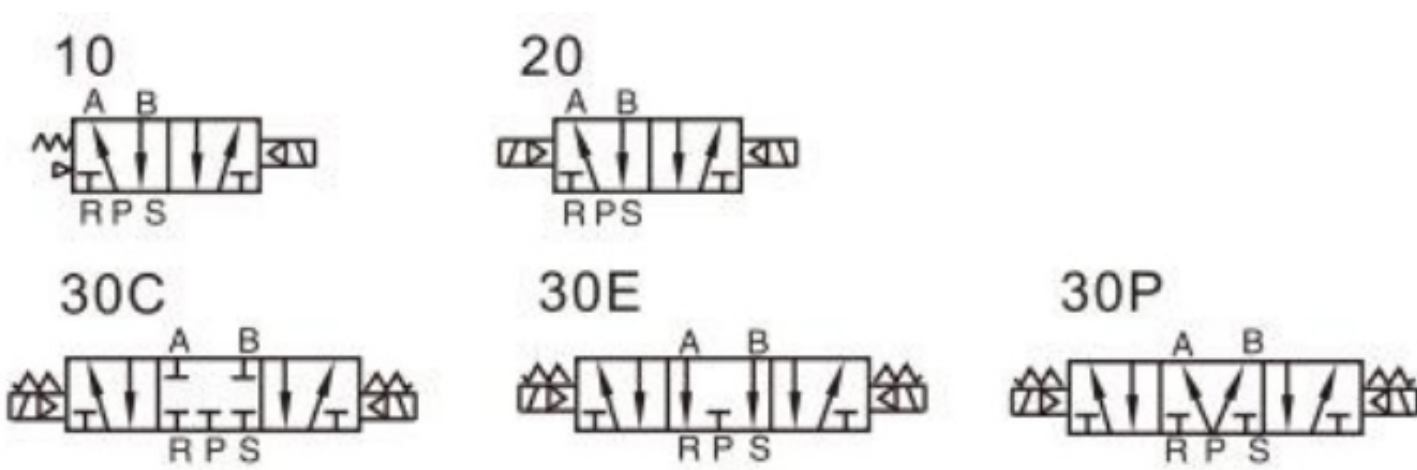




Graphic Symbol



ORDERING CODE

| 4V                                 | 1            | 10                                             | 06        | A                                                     |  |  |
|------------------------------------|--------------|------------------------------------------------|-----------|-------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ↑                                  | ↑            | ↑                                              | ↑         | ↑                                                     | ↑                                                                                 | ↑                                                                                  |
| Model                              | Code         | Valve type                                     | Port size | Voltage                                               | Electrical entry                                                                  | Thread type                                                                        |
| 4V:Solenoid valve<br>(5/2,5/3 way) | 1:100 series | 10:Single solenoid 5/2 way                     | M5:M5     | A:AC220V<br>B:DC24V<br>C:AC110V<br>E:AC24V<br>F:DC12V | Blank:Terminal<br>I:Grommet                                                       | No this code                                                                       |
|                                    |              | 20:Double solenoid 5/2 way                     |           |                                                       |                                                                                   |                                                                                    |
|                                    |              | 30C:Double solenoid 5/3 way<br>closed center   | 06:1/8"   |                                                       |                                                                                   |                                                                                    |
|                                    |              | 30E:Double solenoid 5/3 way<br>exhaust center  |           |                                                       |                                                                                   |                                                                                    |
|                                    |              | 30P:Double solenoid 5/3 way<br>pressure center |           |                                                       |                                                                                   |                                                                                    |
|                                    |              |                                                |           |                                                       | Blank:PT<br>G:G<br>T:NPT                                                          |                                                                                    |

Remark:  
Pls feel free to contact with us if have any customized request.

FEATURE

1. Pilot-oriented mode:Internal pilot or external pilot
2. Structure in sliding column mode:good tightness and sensitive reaction
3. Three position solenoid valves have three kinds of central function for your choice
4. Double control solenoid valves have memory function
5. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life
6. No need to add oil for lubrication
7. It is available to form integrated valve group with the base to save installation space
8. Affiliated manual devices are equipped to facilitate installation and debugging
9. Several standard voltage grades are optional

SPECIFICATION

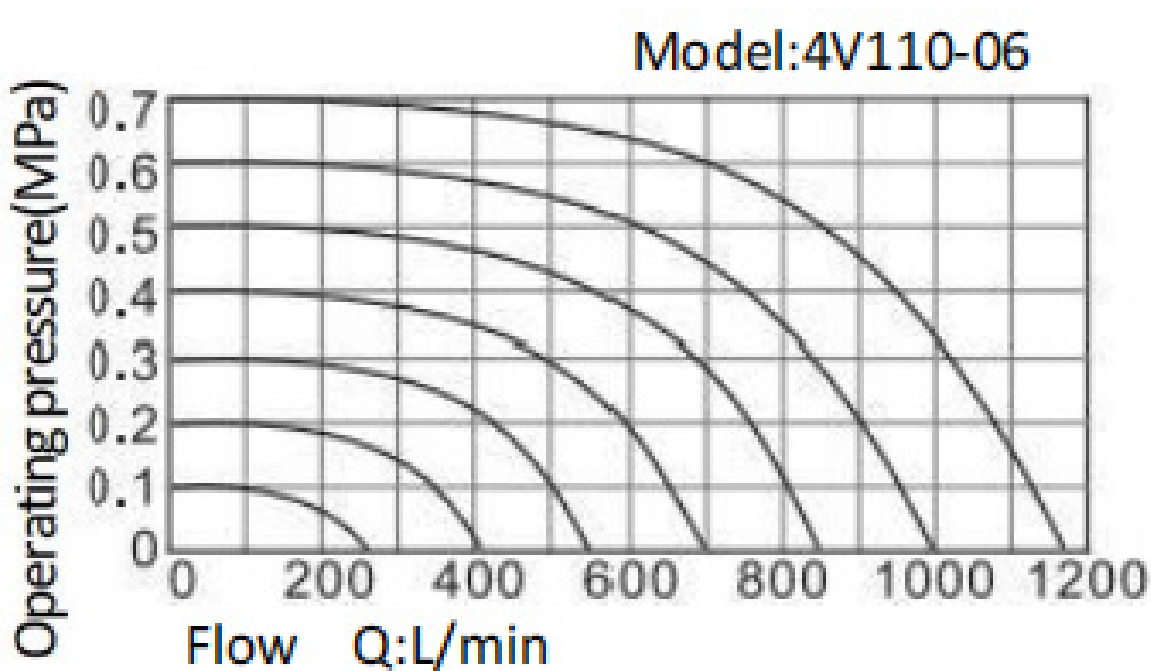
|                             |                                                                |                                     |                              |                                     |
|-----------------------------|----------------------------------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Model                       | 4V110-M5<br>4V120-M5                                           | 4V130C-M5<br>4V130E-M5<br>4V130P-M5 | 4V110-06<br>4V120-06         | 4V130C-06<br>4V130E-06<br>4V130P-06 |
| Fluid                       | Air(to be filtered by 40μm filter element)                     |                                     |                              |                                     |
| Acting                      | Internal pilot or external pilot                               |                                     |                              |                                     |
| Port size [Note1]           | In=Out=M5                                                      |                                     | In=Out=1/8"                  |                                     |
| Orifice size(Cv)<br>[Note4] | 4V110-06,4V120-06:10.2mm²(Cv=0.6)<br>4V130C-06:8.6mm²(Cv=0.51) |                                     |                              |                                     |
| Valve type                  | 5 port 2 position                                              | 5 port 3 position                   | 5 port 2 position            | 5 port 3 position                   |
| Operating pressure          | 0.15~0.8MPa(21~114psi)                                         |                                     |                              |                                     |
| Proof pressure              | 1.2MPa(175psi)                                                 |                                     |                              |                                     |
| Temperature                 | -20~70°C                                                       |                                     |                              |                                     |
| Material of body            | Aluminum alloy                                                 |                                     |                              |                                     |
| Lubrication [Note2]         | Not required                                                   |                                     |                              |                                     |
| Max.frequency [Note3]       | 5 cycle/sec                                                    | 3 cycle/sec                         | 5 cycle/sec                  | 3 cycle/sec                         |
| Weight(g)                   | 4V110-M5:120<br>4V120-M5:175                                   | 200                                 | 4V110-06:120<br>4V120-06:175 | 200                                 |

[Note1]PT thread,G thread and NPT thread are available  
[Note2]Once lubricated air is used,continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended  
[Note3]The maximum actuation frequency is in the no-load state  
[Note4]Equivalent orifice Sand Cv are all calculated from the flow rate data

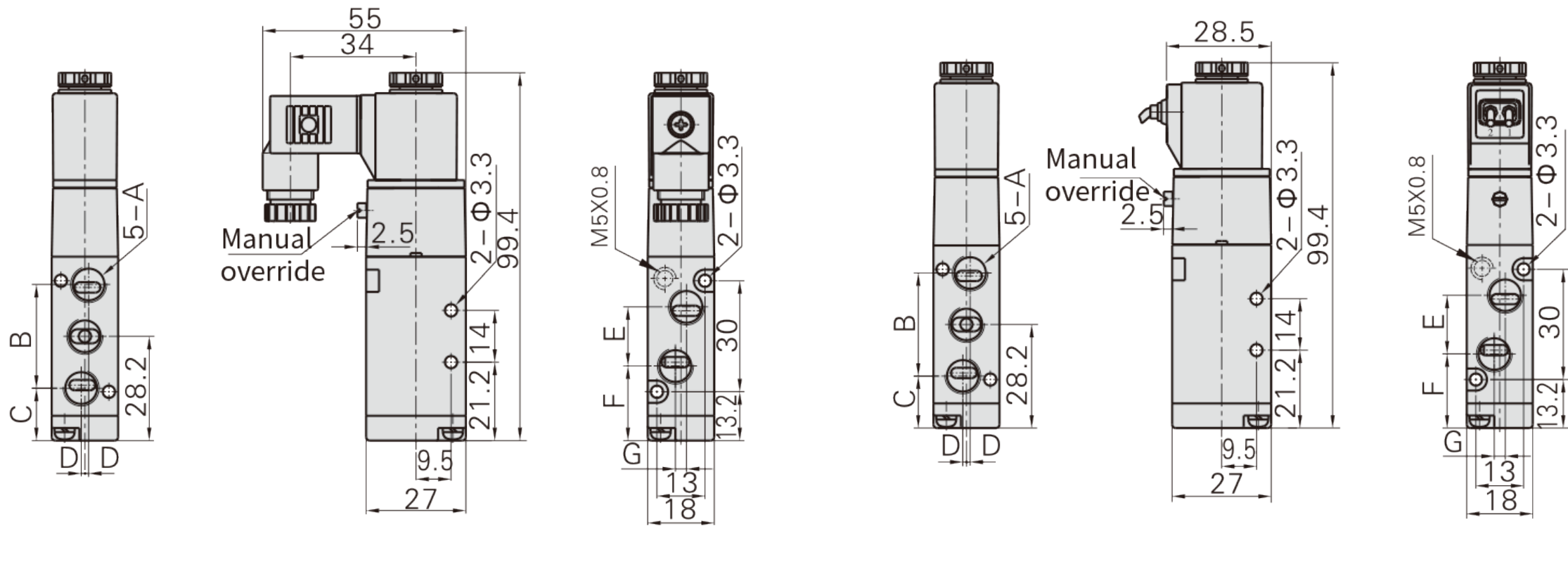
COIL SPECIFICATION

| Item                       | Specification      |        |       |       |       |
|----------------------------|--------------------|--------|-------|-------|-------|
| Standard voltage           | AC220V             | AC110V | AC24V | DC24V | DC12V |
| Scope of voltage           | AC:±15% DC:±10%    |        |       |       |       |
| Power consumption          | 3.5VA              | 3.5VA  | 4.0VA | 2.8W  | 2.5W  |
| Protection                 | IP65(DIN40050)     |        |       |       |       |
| Temperature classification | B Class            |        |       |       |       |
| Electrical entry           | Terminal,Grommet   |        |       |       |       |
| Activating time            | 0.05 sec and below |        |       |       |       |

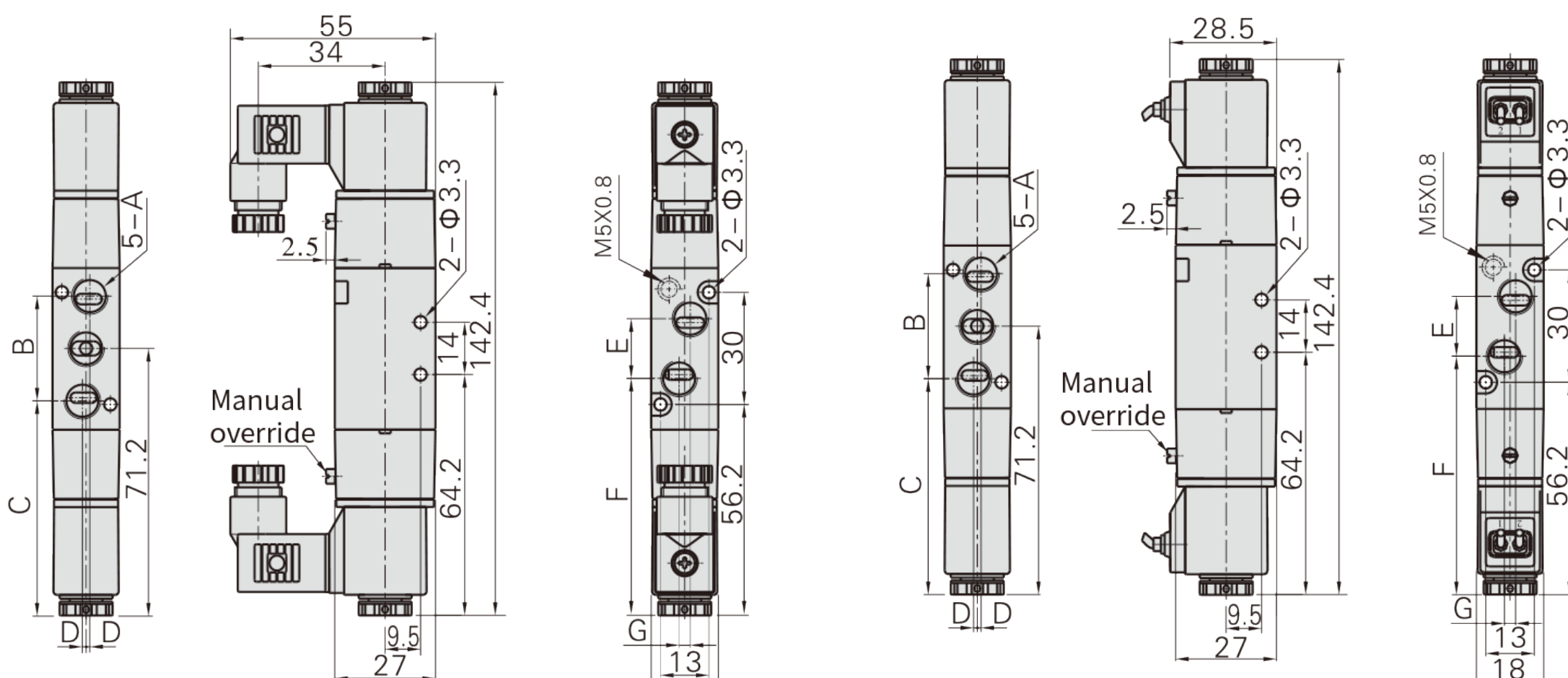
FLOW DIAGRAM



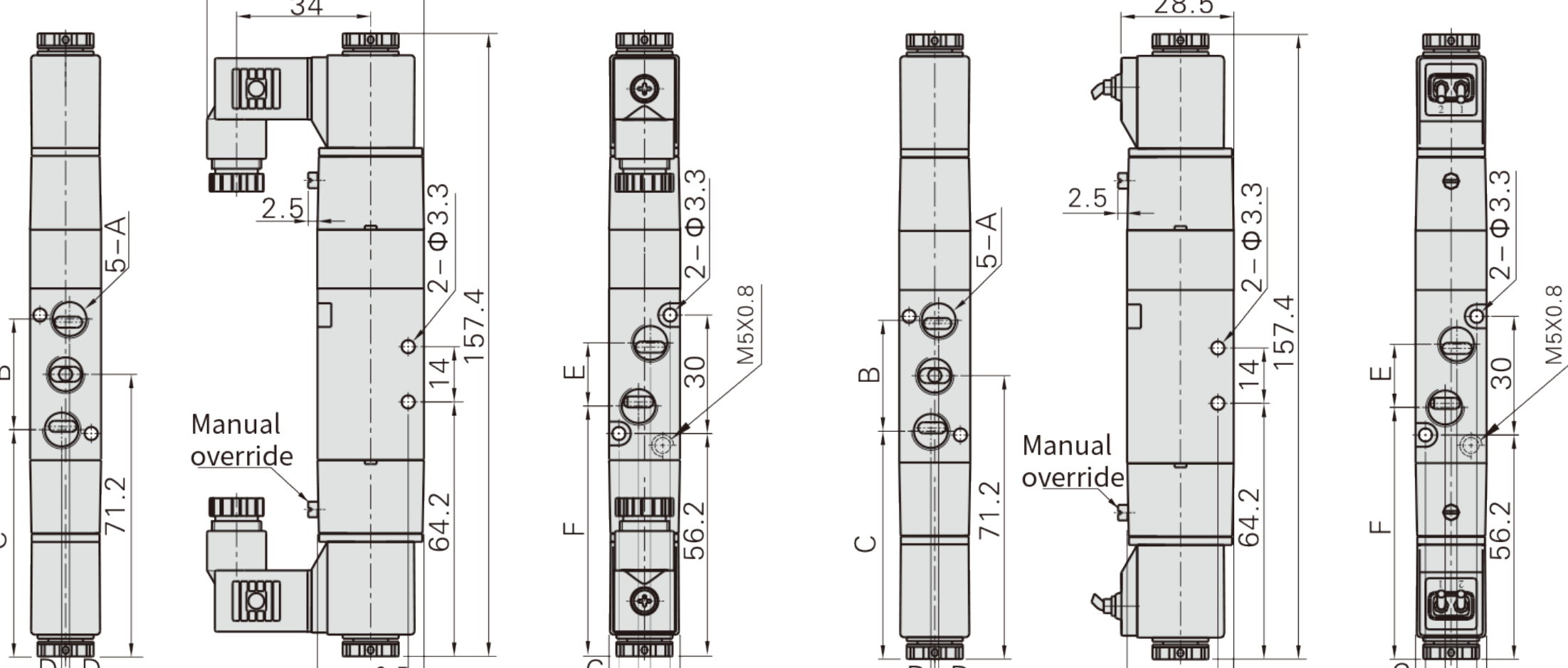
OVERALLDIMENSION&STRUCTURE



| Model/Item | A      | B  | C    | D | E  | F    | G |
|------------|--------|----|------|---|----|------|---|
| 4V110-M5   | M5x0.8 | 27 | 14.7 | 0 | 14 | 21.2 | 0 |
| 4V110-06   | 1/8"   | 28 | 14.2 | 1 | 16 | 20.2 | 3 |



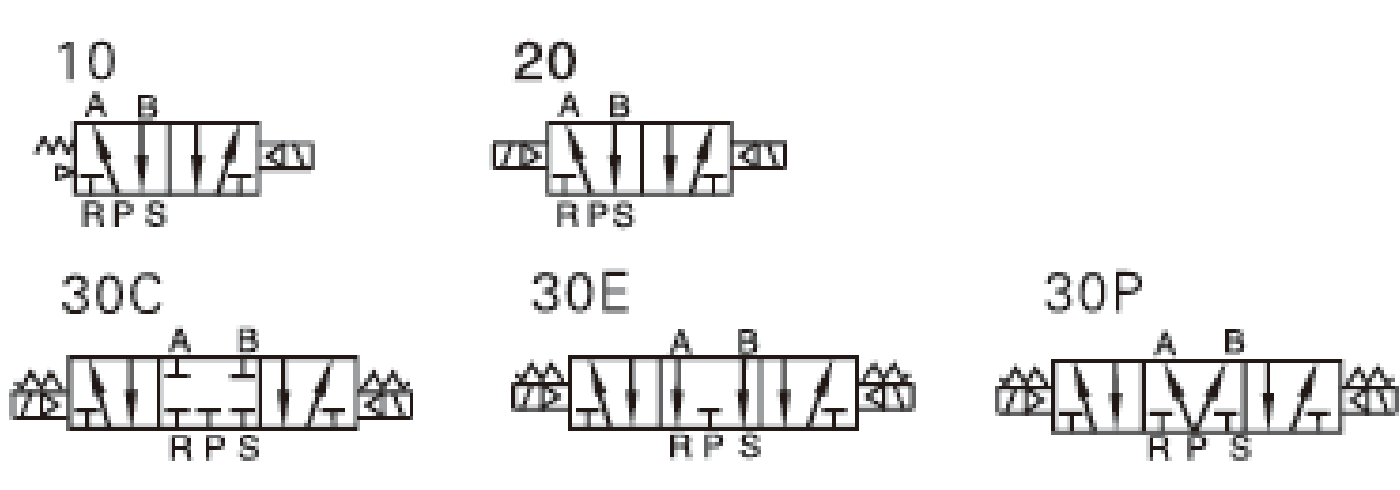
| Model/Item | A      | B  | C    | D | E  | F    | G |
|------------|--------|----|------|---|----|------|---|
| 4V120-M5   | M5x0.8 | 27 | 57.7 | 0 | 14 | 64.3 | 0 |
| 4V120-06   | 1/8"   | 28 | 57.2 | 1 | 16 | 63.2 | 3 |



| Model/Item | A      | B  | C    | D | E  | F    | G |
|------------|--------|----|------|---|----|------|---|
| 4V130-M5   | M5x0.8 | 27 | 57.7 | 0 | 14 | 64.3 | 0 |
| 4V130-06   | 1/8"   | 28 | 57.2 | 1 | 16 | 63.2 | 3 |



Graphic Symbol



4V

2

10

08

A

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Model

Code

Valve type

Port size

Voltage

Electrical entry

Thread type

4V:Solenoid valve  
(5/2,5/3 way)

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"

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

Blank:Terminal  
I:Grommet

Blank:PT  
G:G  
T:NPT

Remark:  
Pls feel free to contact with us if have any customized request.

## FEATURE

- Pilot-oriented mode:Internal pilot or external pilot
- Structure in sliding column mode:good tightness and sensitive reaction
- Three position solenoid valves have three kinds of central function for your choice
- Double control solenoid valves have memory function
- Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life
- No need to add oil for lubrication
- It is available to form integrated valve group with the base to save installation space
- Affiliated manual devices are equipped to facilitate installation and debugging
- Several standard voltage grades are optional

## SPECIFICATION

|                             |                                                                |                                     |                              |                                     |
|-----------------------------|----------------------------------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Model                       | 4V210-06<br>4V220-06                                           | 4V230C-06<br>4V230E-06<br>4V230P-06 | 4V210-08<br>4V220-08         | 4V230C-08<br>4V230E-08<br>4V230P-08 |
| Fluid                       | Air(to be filtered by 40μm filter element)                     |                                     |                              |                                     |
| Acting                      | Internal pilot or external pilot                               |                                     |                              |                                     |
| Port size [Note1]           | In=Out=Exhaust=1/8"                                            |                                     | In=Out=1/4" Exhaust=1/8"     |                                     |
| Orifice size(Cv)<br>[Note4] | 4V210-08,4V220-08:17.0mm²(Cv=1.0)<br>4V230C-08:13.6mm²(Cv=0.8) |                                     |                              |                                     |
| Valve type                  | 5 port 2 position                                              | 5 port 3 position                   | 5 port 2 position            | 5 port 3 position                   |
| Operating pressure          | 0.15~0.8MPa(21~114psi)                                         |                                     |                              |                                     |
| Proof pressure              | 1.2MPa(175psi)                                                 |                                     |                              |                                     |
| Temperature                 | -20~70℃                                                        |                                     |                              |                                     |
| Material of body            | Aluminum alloy                                                 |                                     |                              |                                     |
| Lubrication [Note2]         | Not required                                                   |                                     |                              |                                     |
| Max.frequency [Note3]       | 5 cycle/sec                                                    | 3 cycle/sec                         | 5 cycle/sec                  | 3 cycle/sec                         |
| Weight(g)                   | 4V210-06:220<br>4V220-06:320                                   | 360                                 | 4V210-08:220<br>4V220-08:320 | 360                                 |

[Note1]PT thread,G thread and NPT thread are available

[Note2]Once lubricated air is used,continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended

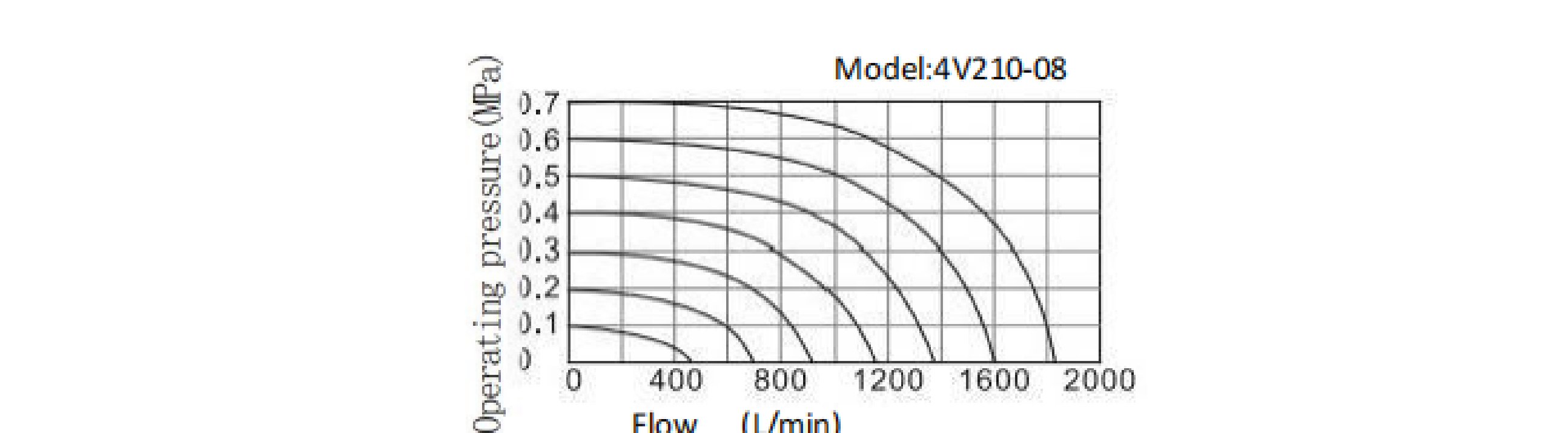
[Note3]The maximum actuation frequency is in the no-load state

[Note4]Equivalent orifice Sand Cv are all calculated from the flow rate data

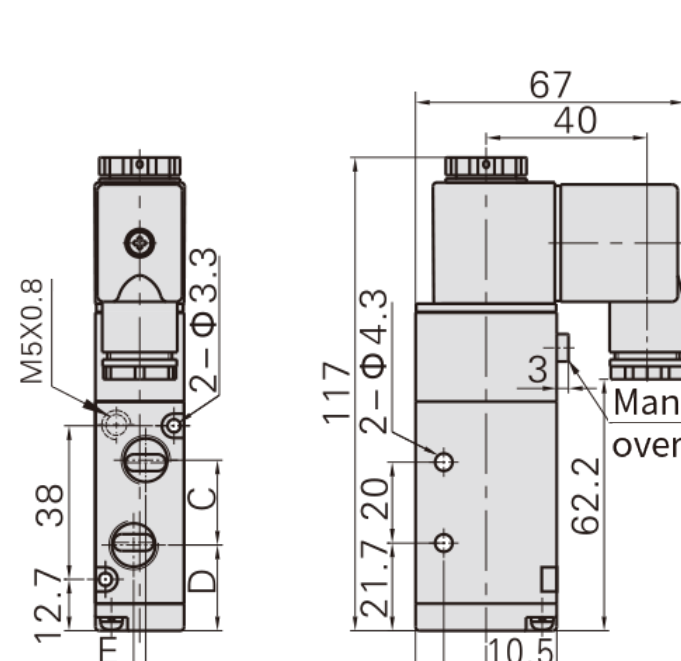
## COIL SPECIFICATION

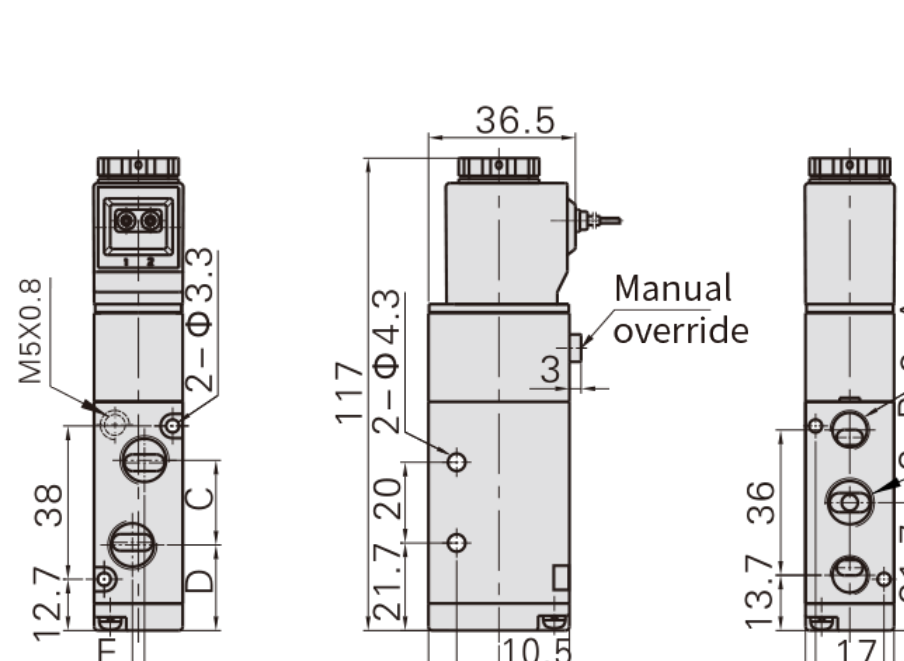
| Item                       | Specification      |        |       |       |       |
|----------------------------|--------------------|--------|-------|-------|-------|
| Standard voltage           | AC220V             | AC110V | AC24V | DC24V | DC12V |
| Scope of voltage           | AC:±15% DC:±10%    |        |       |       |       |
| Power consumption          | 4.5VA              | 4.5VA  | 5.0VA | 3.0W  | 2.5W  |
| Protection                 | IP65(DIN40050)     |        |       |       |       |
| Temperature classification | B Class            |        |       |       |       |
| Electrical entry           | Terminal,Grommet   |        |       |       |       |
| Activating time            | 0.05 sec and below |        |       |       |       |

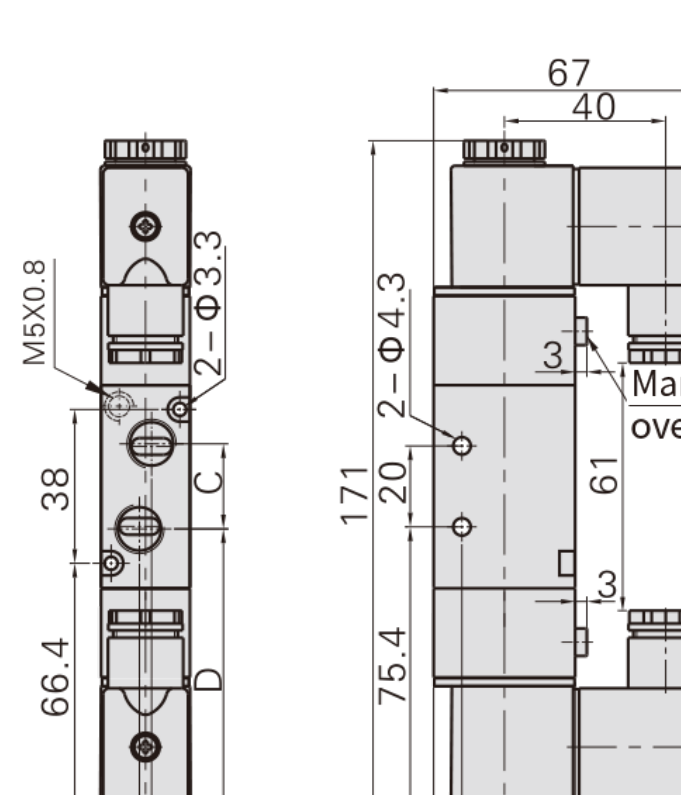
## FLOW DIAGRAM

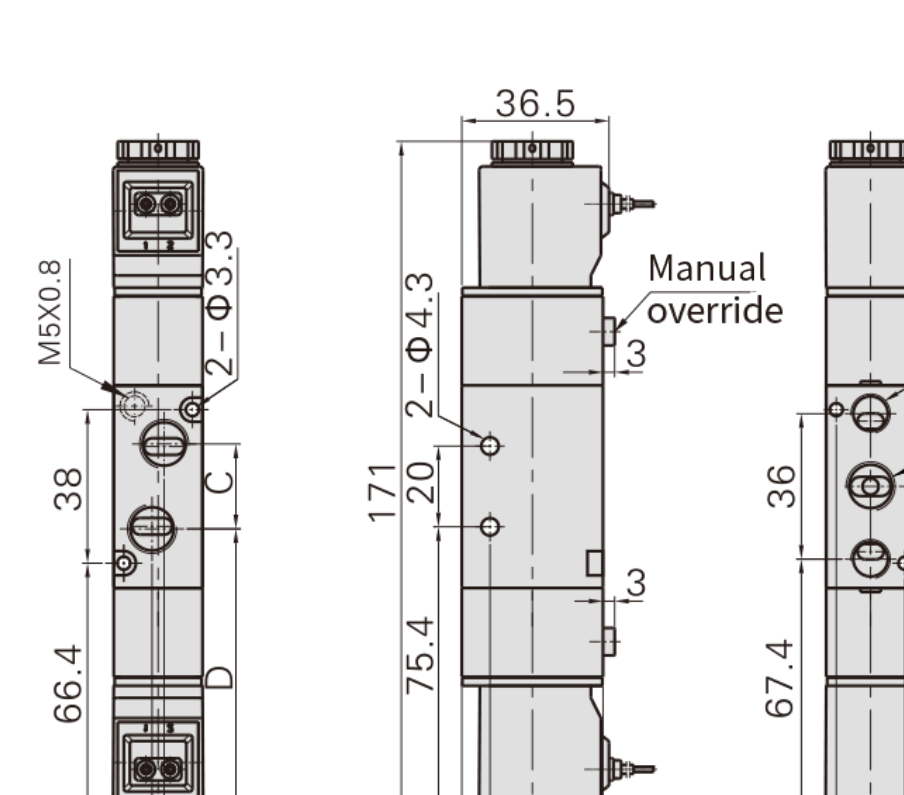


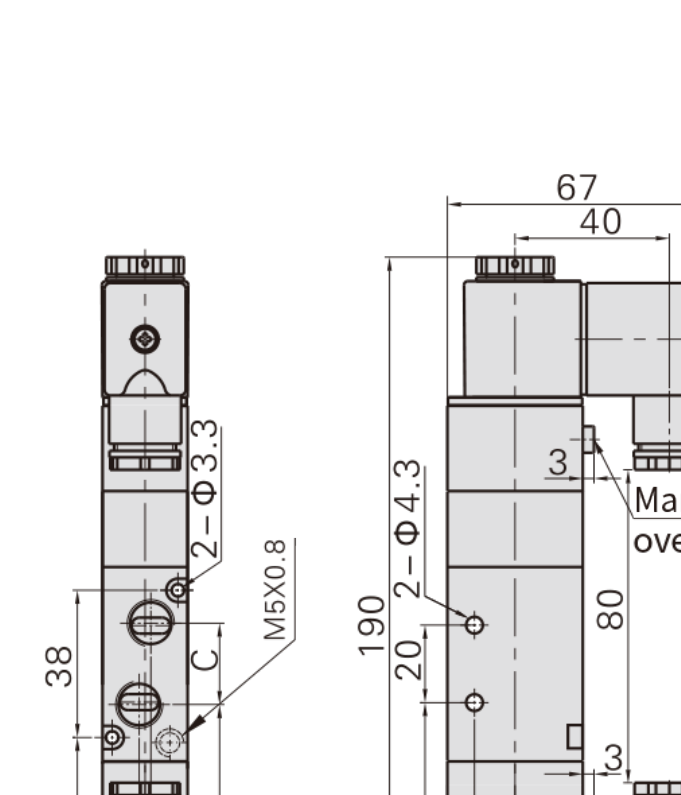
## OVERALLDIMENSION&STRUCTURE

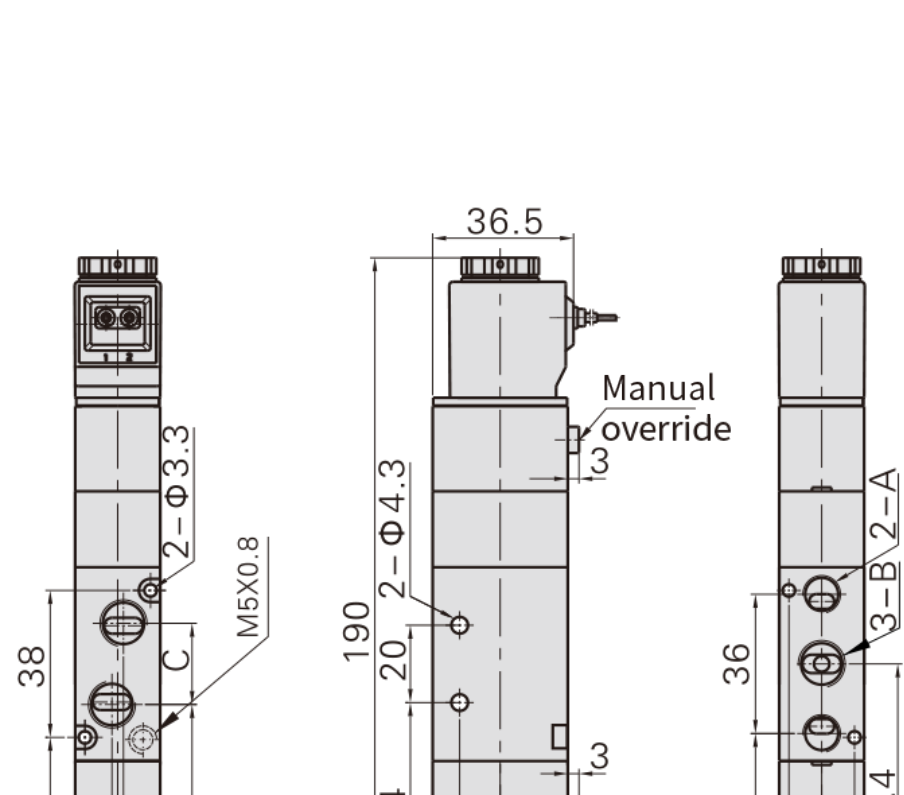








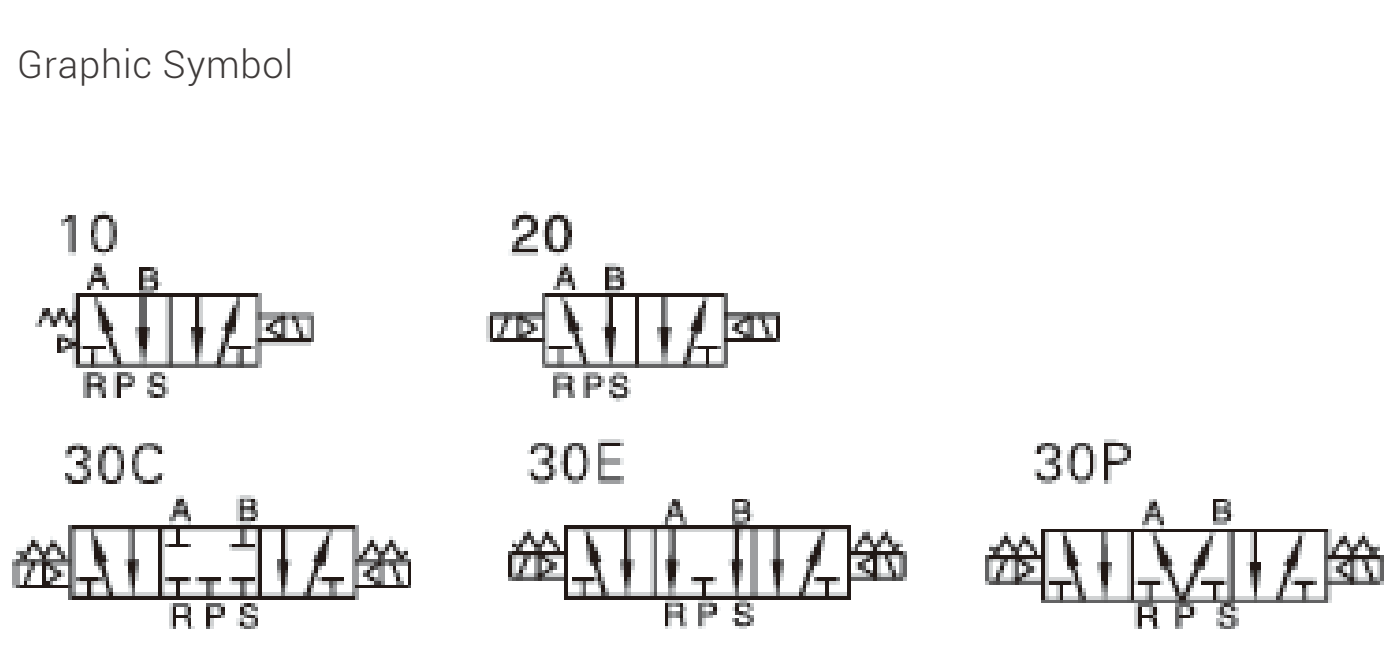




| Model/Item | A    | B    | C  | D    | E |
|------------|------|------|----|------|---|
| 4V210-06   | 1/8" | 1/8" | 18 | 22.7 | 0 |
| 4V210-08   | 1/8" | 1/4" | 21 | 21.2 | 3 |

| 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 |

| 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 |



ORDERING CODE

4V

↑

Model

3

↑

Code

10

↑

Valve type

10

↑

Port size

A

↑

Voltage

↑

Electrical entry

↑

Thread type

4V:Solenoid valve  
(5/2,5/3 way)

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"

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

Blank:Terminal  
I:Grommet

Blank:PT  
G:G  
T:NPT

Remark:  
Pls feel free to contact with us if have any customized request.

FEATURE

1. Pilot-oriented mode:Internal pilot or external pilot

2. Structure in sliding column mode:good tightness and sensitive reaction

3. Three position solenoid valves have three kinds of central function for your choice

4. Double control solenoid valves have memory function

5. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life

6. No need to add oil for lubrication

7. It is available to form integrated valve group with the base to save installation space

8. Affiliated manual devices are equipped to facilitate installation and debugging

9. Several standard voltage grades are optional

SPECIFICATION

| Model                       | 4V310-08<br>4V320-08                                             | 4V330C-08<br>4V330E-08<br>4V330P-08 | 4V310-10<br>4V320-10         | 4V330C-10<br>4V330E-10<br>4V330P-10 |
|-----------------------------|------------------------------------------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| Fluid                       | Air(to be filtered by 40μm filter element)                       |                                     |                              |                                     |
| Acting                      | Internal pilot or external pilot                                 |                                     |                              |                                     |
| Port size [Note1]           | In=Out=Exhaust=1/4"                                              |                                     | In=Out=3/8" Exhaust=1/4"     |                                     |
| Orifice size(Cv)<br>[Note4] | 4V310-10,4V320-10:28.0mm²(Cv=1.65)<br>4V330C-10:21.3mm²(Cv=1.25) |                                     |                              |                                     |
| Valve type                  | 5 port 2 position                                                | 5 port 3 position                   | 5 port 2 position            | 5 port 3 position                   |
| Operating pressure          | 0.15~0.8MPa(21~114psi)                                           |                                     |                              |                                     |
| Proof pressure              | 1.2MPa(175psi)                                                   |                                     |                              |                                     |
| Temperature                 | -20~70°C                                                         |                                     |                              |                                     |
| Material of body            | Aluminum alloy                                                   |                                     |                              |                                     |
| Lubrication [Note2]         | Not required                                                     |                                     |                              |                                     |
| Max.frequency [Note3]       | 4 cycle/sec                                                      | 3 cycle/sec                         | 4 cycle/sec                  | 3 cycle/sec                         |
| Weight(g)                   | 4V310-08:310<br>4V320-08:400                                     | 450                                 | 4V310-10:310<br>4V320-10:400 | 450                                 |

[Note1]PT thread,G thread and NPT thread are available

[Note2]Once lubricated air is used,continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended

[Note3]The maximum actuation frequency is in the no-load state

[Note4]Equivalent orifice Sand Cv are all calculated from the flow rate data

COIL SPECIFICATION

| Item                       | Specification      |        |       |       |       |
|----------------------------|--------------------|--------|-------|-------|-------|
| Standard voltage           | AC220V             | AC110V | AC24V | DC24V | DC12V |
| Scope of voltage           | AC:±15% DC:±10%    |        |       |       |       |
| Power consumption          | 4.5VA              | 4.5VA  | 5.0VA | 3.0W  | 2.5W  |
| Protection                 | IP65(DIN40050)     |        |       |       |       |
| Temperature classification | B Class            |        |       |       |       |
| Electrical entry           | Terminal,Grommet   |        |       |       |       |
| Activating time            | 0.05 sec and below |        |       |       |       |

FLOW DIAGRAM

Model: 4V310-10

OVERALLDIMENSION&STRUCTURE

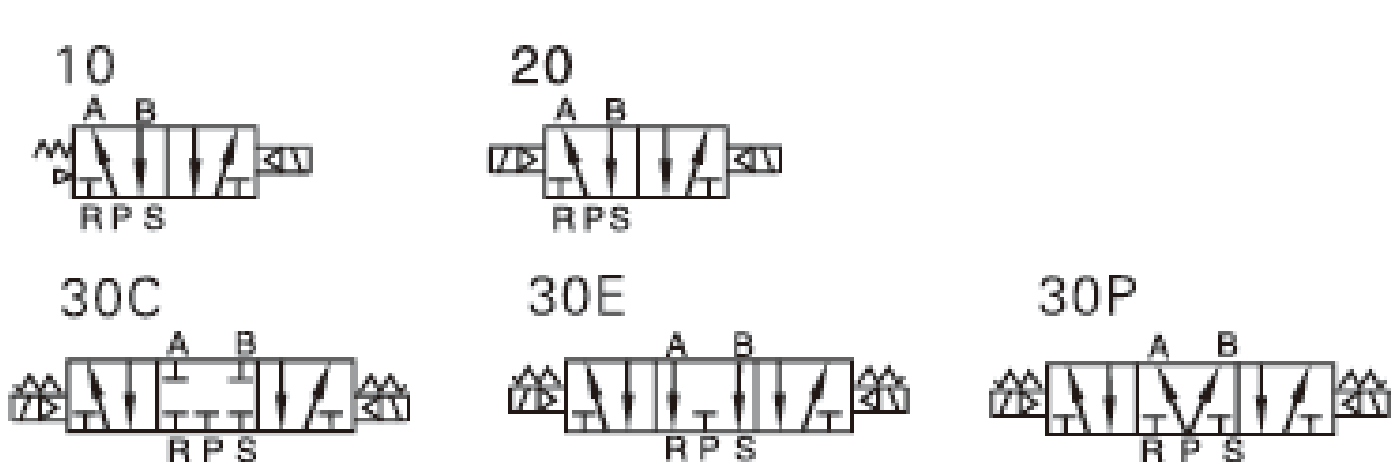
| Model/Item | A    | B    | C  | D  | E |
|------------|------|------|----|----|---|
| 4V310-08   | 1/4" | 1/4" | 22 | 29 | 0 |
| 4V310-10   | 1/4" | 3/8" | 24 | 28 | 4 |

| 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 |

| 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 |



Graphic Symbol



## ORDERING CODE

| 4V                                 | 4            | 10                                                                                                                                                                                                          | 15        | A                                                     |                             |                          |
|------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------|-----------------------------|--------------------------|
| ↑                                  | ↑            | ↑                                                                                                                                                                                                           | ↑         | ↑                                                     | ↑                           | ↑                        |
| Model                              | Code         | Valve type                                                                                                                                                                                                  | Port size | Voltage                                               | Electrical entry            | Thread type              |
| 4V:Solenoid valve<br>(5/2,5/3 way) | 4:400 series | 10:Single solenoid 5/2 way<br>20:Double solenoid 5/2 way<br>30C:Double solenoid 5/3 way<br>closed center<br>30E:Double solenoid 5/3 way<br>exhaust center<br>30P:Double solenoid 5/3 way<br>pressure center | 15:1/2"   | A:AC220V<br>B:DC24V<br>C:AC110V<br>E:AC24V<br>F:DC12V | Blank:Terminal<br>I:Grommet | Blank:PT<br>G:G<br>T:NPT |

Remark:  
Pls feel free to contact with us if have any customized request.

## FEATURE

1. Pilot-oriented mode:Internal pilot or external pilot
2. Structure in sliding column mode:good tightness and sensitive reaction
3. Three position solenoid valves have three kinds of central function for your choice
4. Double control solenoid valves have memory function
5. Internal hole adopts special processing technology which has little attrition friction, low start pressure and long service life
6. No need to add oil for lubrication
7. It is available to form integrated valve group with the base to save installation space
8. Affiliated manual devices are equipped to facilitate installation and debugging
9. Several standard voltage grades are optional

## SPECIFICATION

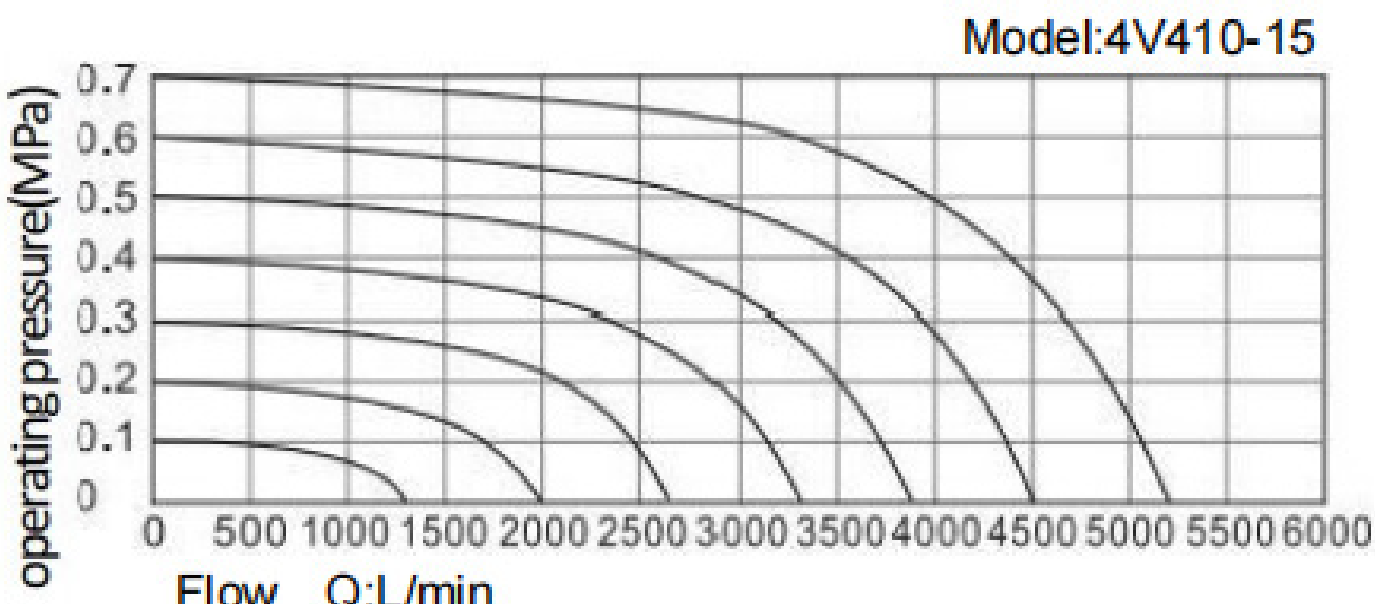
| Model                       | 4V410-15                                                         | 4V420-15 | 4V430C-15         | 4V430E-15 | 4V430P-15 |
|-----------------------------|------------------------------------------------------------------|----------|-------------------|-----------|-----------|
| Fluid                       | Air(to be filtered by 40μm filter element)                       |          |                   |           |           |
| Acting                      | Internal pilot or external pilot                                 |          |                   |           |           |
| Port size [Note1]           | In=Out=Exhaust=1/2"                                              |          |                   |           |           |
| Orifice size(Cv)<br>[Note4] | 4V410-15,4V420-15:48.0mm²(Cv=2.82)<br>4V430C-15:40.0mm²(Cv=2.35) |          |                   |           |           |
| Valve type                  | 5 port 2 position                                                |          | 5 port 3 position |           |           |
| Operating pressure          | 0.15~0.8MPa(21~114psi)                                           |          |                   |           |           |
| Proof pressure              | 1.2MPa(175psi)                                                   |          |                   |           |           |
| Temperature                 | -20~70℃                                                          |          |                   |           |           |
| Material of body            | Aluminum alloy                                                   |          |                   |           |           |
| Lubrication [Note2]         | Not required                                                     |          |                   |           |           |
| Max.frequency [Note3]       | 3 cycle/sec                                                      |          |                   |           |           |
| Weight(g)                   | 590                                                              | 720      | 770               |           |           |

- [Note1]PT thread,G thread and NPT thread are available
- [Note2]Once lubricated air is used,continue with same medium to optimise valve life span.Lubricants like ISO VG32 or equivalent are recommended
- [Note3]The maximum actuation frequency is in the no-load state
- [Note4]Equivalent orifice Sand Cv are all calculated from the flow rate data

## COIL SPECIFICATION

| Item                       | Specification      |        |       |       |       |
|----------------------------|--------------------|--------|-------|-------|-------|
| Standard voltage           | AC220V             | AC110V | AC24V | DC24V | DC12V |
| Scope of voltage           | AC:±15% DC:±10%    |        |       |       |       |
| Power consumption          | 4.5VA              | 4.5VA  | 5.0VA | 3.0W  | 2.5W  |
| Protection                 | IP65(DIN40050)     |        |       |       |       |
| Temperature classification | B Class            |        |       |       |       |
| Electrical entry           | Terminal,Grommet   |        |       |       |       |
| Activating time            | 0.05 sec and below |        |       |       |       |

## FLOW DIAGRAM



## OVERALL DIMENSION&STRUCTURE

