



Standard Specification

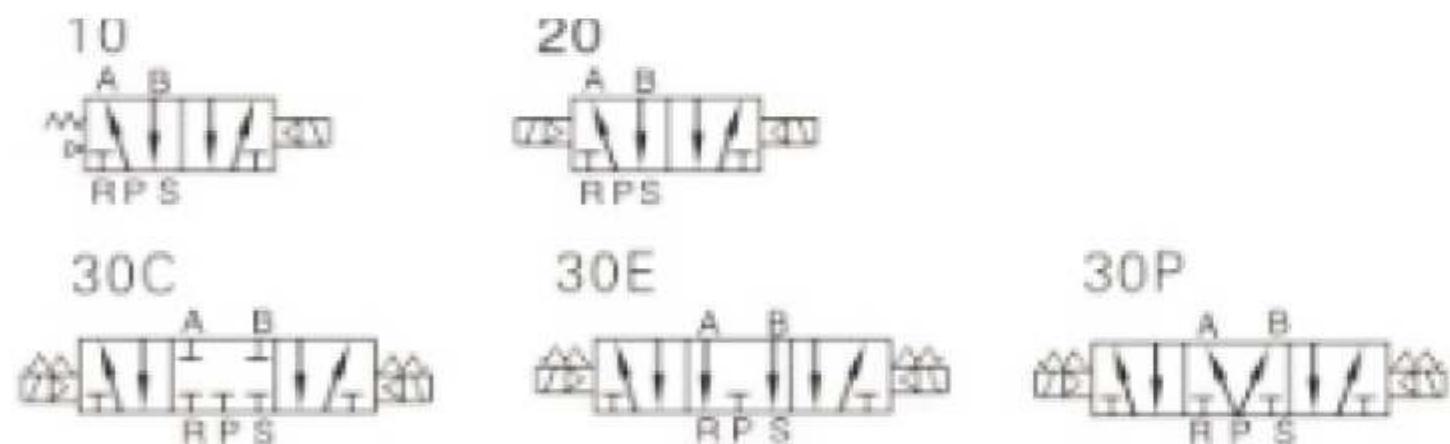
| Model                          | 4V110-M5<br>4V120-M5                      | 4V130C-M5<br>4V130E-M5<br>4V130P-M5 | 4V110-06<br>4V120-06           | 4V130C-06<br>4V130E-06<br>4V130P-06 |
|--------------------------------|-------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| Working medium                 | Air (filtered by a 40um or higher filter) |                                     |                                |                                     |
| Action mode                    | Pilot                                     |                                     |                                |                                     |
| *Pipe diameter                 | Inlet=Outlet=M5                           |                                     | Inlet = Outlet = G1/8          |                                     |
| Effective cross-sectional area | 5.5mm <sup>2</sup> (Cv=0.31)              | 5.0mm <sup>2</sup> (Cv=0.28)        | 12.0mm <sup>2</sup> (Cv=0.67)  | 9.0mm <sup>2</sup> (Cv=0.50)        |
| Number of positions            | Five mouths, two places                   | Five mouths three                   | Five two                       | Five three                          |
| Use pressure range             | 0.15-0.8MPa(21~114psi)                    |                                     |                                |                                     |
| Guaranteed pressure resistance | 1.5Mpa(215psi)                            |                                     |                                |                                     |
| Operating temperature          | -20-70                                    |                                     |                                |                                     |
| Body material                  | Aluminum alloy                            |                                     |                                |                                     |
| **Lubrication                  | Not required                              |                                     |                                |                                     |
| ***Maximum movement frequency  | 5 times/second                            | 3 times/second                      | 5 times/second                 | 3 times/second                      |
| Weight                         | 4V110-M5:120g<br>4V120-M5:175g            | 200g                                | 4V110-06:120g<br>4V120-06:175g | 200g                                |

\*Takeover tooth type with PT, NPT available  
\*\*If there is oil lubrication, it cannot be stopped in the middle, and the recommended lubricant is ISOVG32 or the same level of oil.  
\*\*\*Maximum operation frequency is no-load condition.

Electrical performance parameters

| Item                        | Specific parameters             |
|-----------------------------|---------------------------------|
| Standard Voltage            | AC220V、AC110V、AC24V、DC24V、DC12V |
| Operating voltage range     | AC:±15% DC:±10%                 |
| Power consumption           | AC:3VA DC: 3W                   |
| Protection level            | IP65(DIN40050)                  |
| Heat resistance class       | Class B                         |
| Electrical type             | DIN socket type, outlet type    |
| Excitation time             | Less than 0.05 seconds          |
| Maximum operation frequency | 5 times/sec                     |

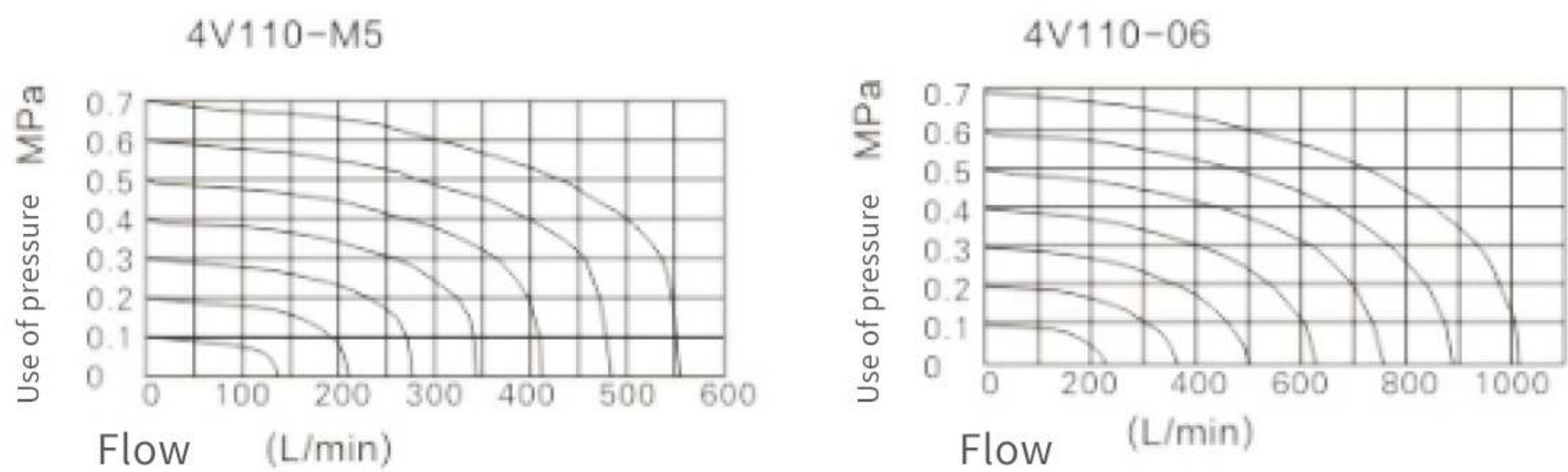
Symbols



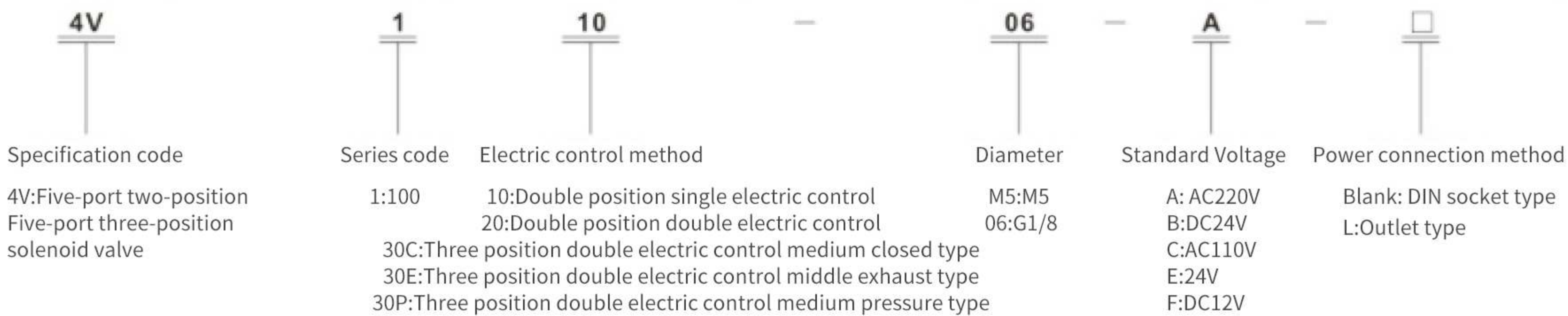
Product Features

- 1. Pilot method: external and internal optional.
- 2. Sliding column structure, good sealing, responsive.
- 3. Three position solenoid valve has three central functions to choose.
- 4. Double-headed two-position solenoid valve with memory function.
- 5. The inner bore is processed by special technology, low friction resistance, low starting air pressure, long service life.
- 6. No need for oil lubrication.
- 7. Can be integrated with the base valve group, saving installation space.
- 8. With manual device, easy to install and debug.
- 9. A variety of standard voltage levels are available for selection

Flow Characteristics

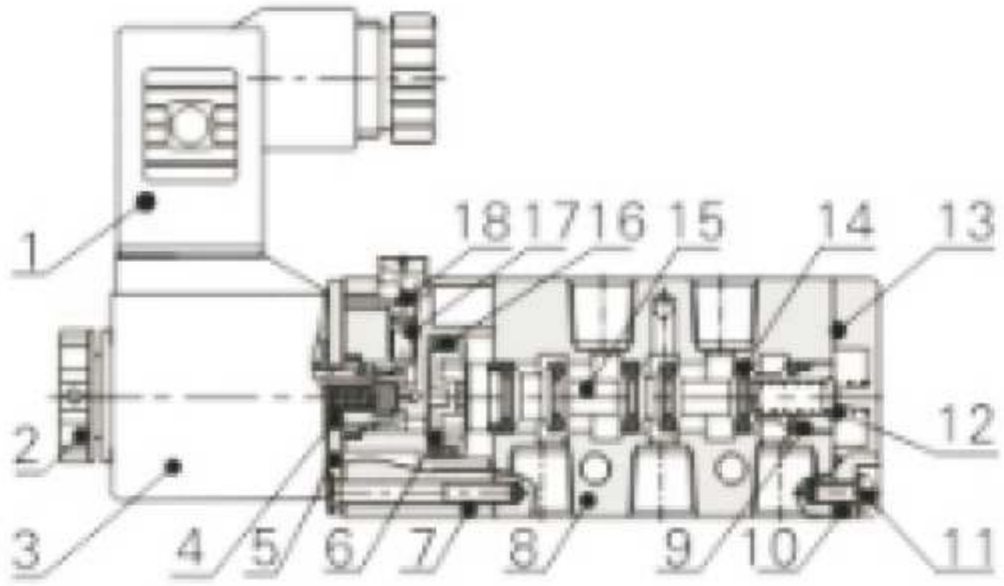


Model number indication method

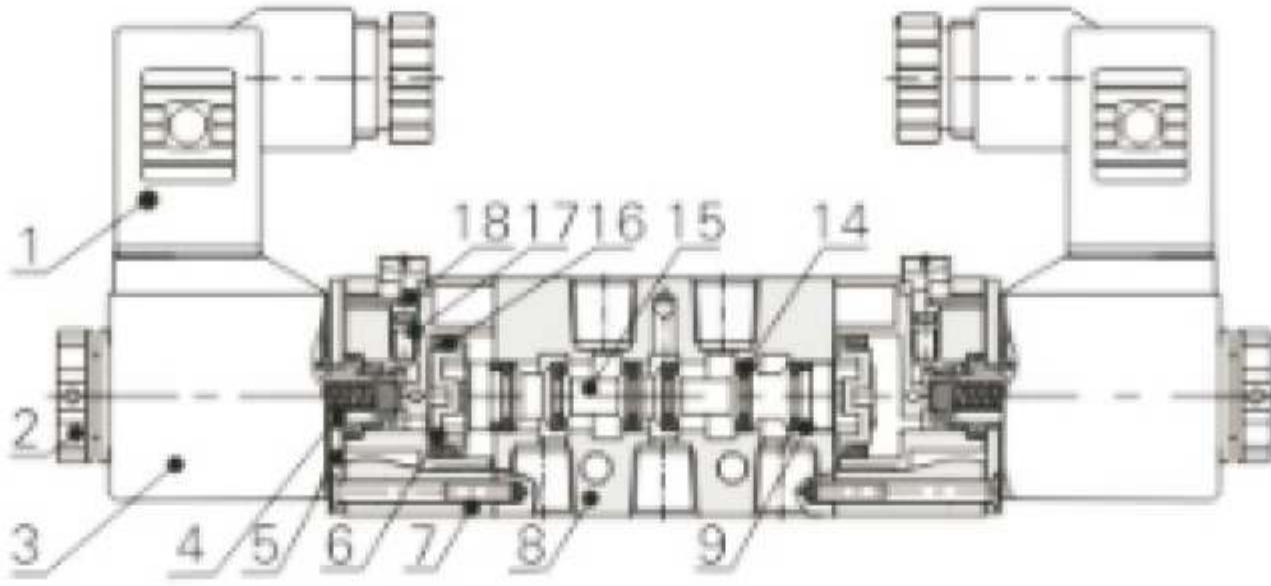


Internal structure

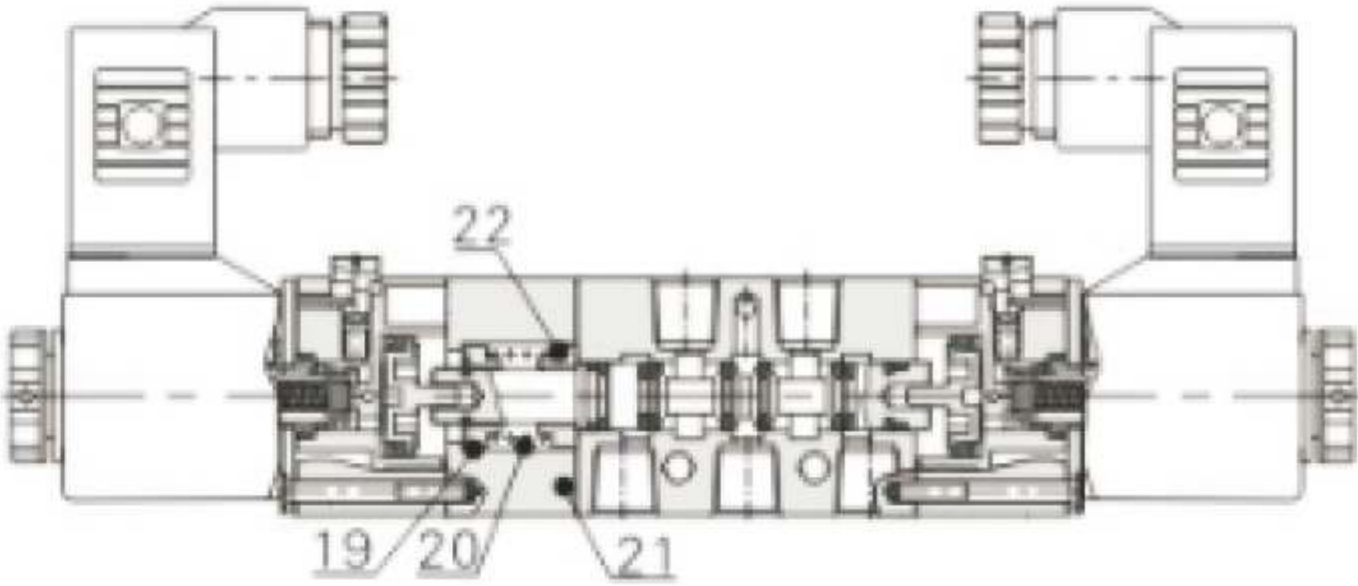
4V110



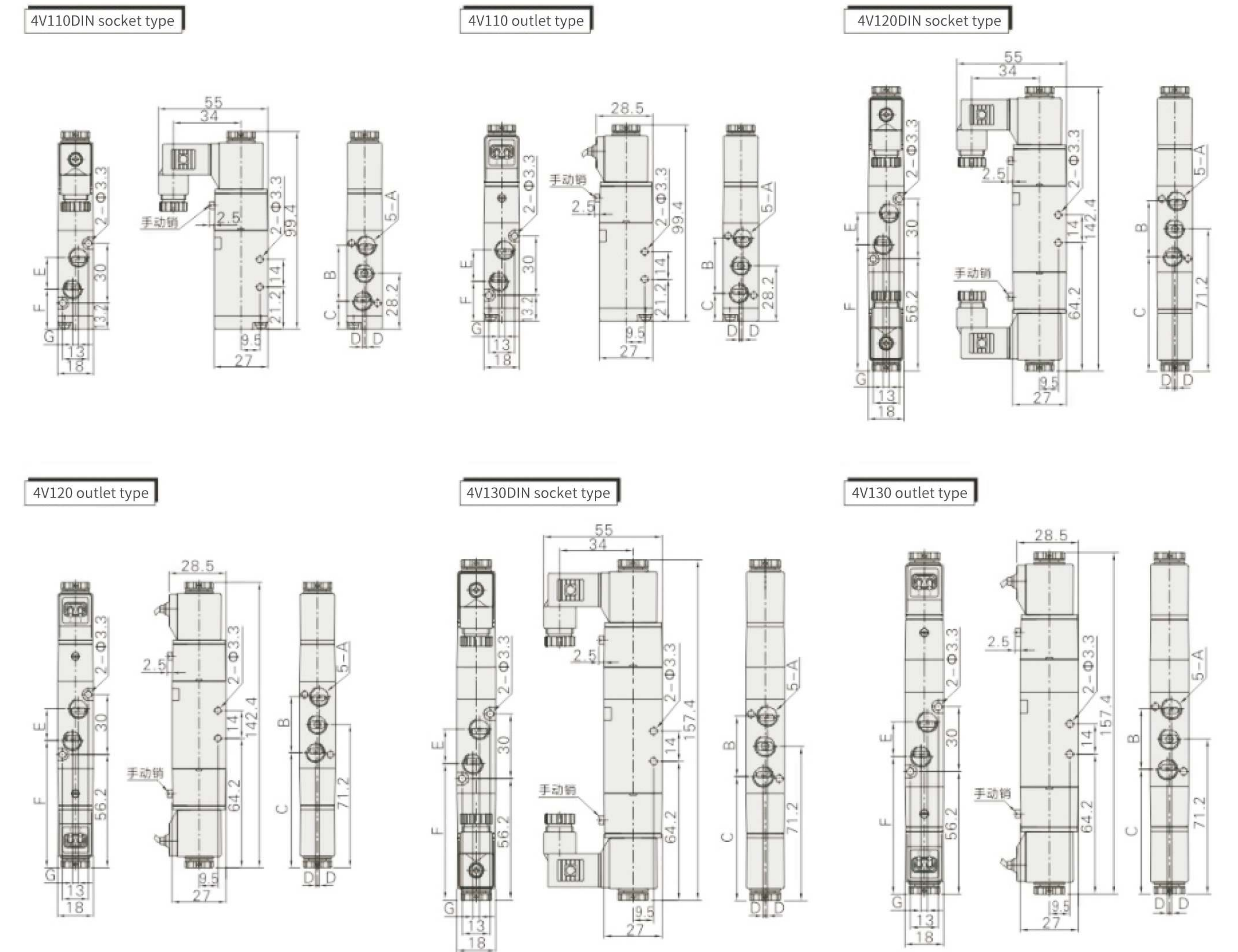
4V120



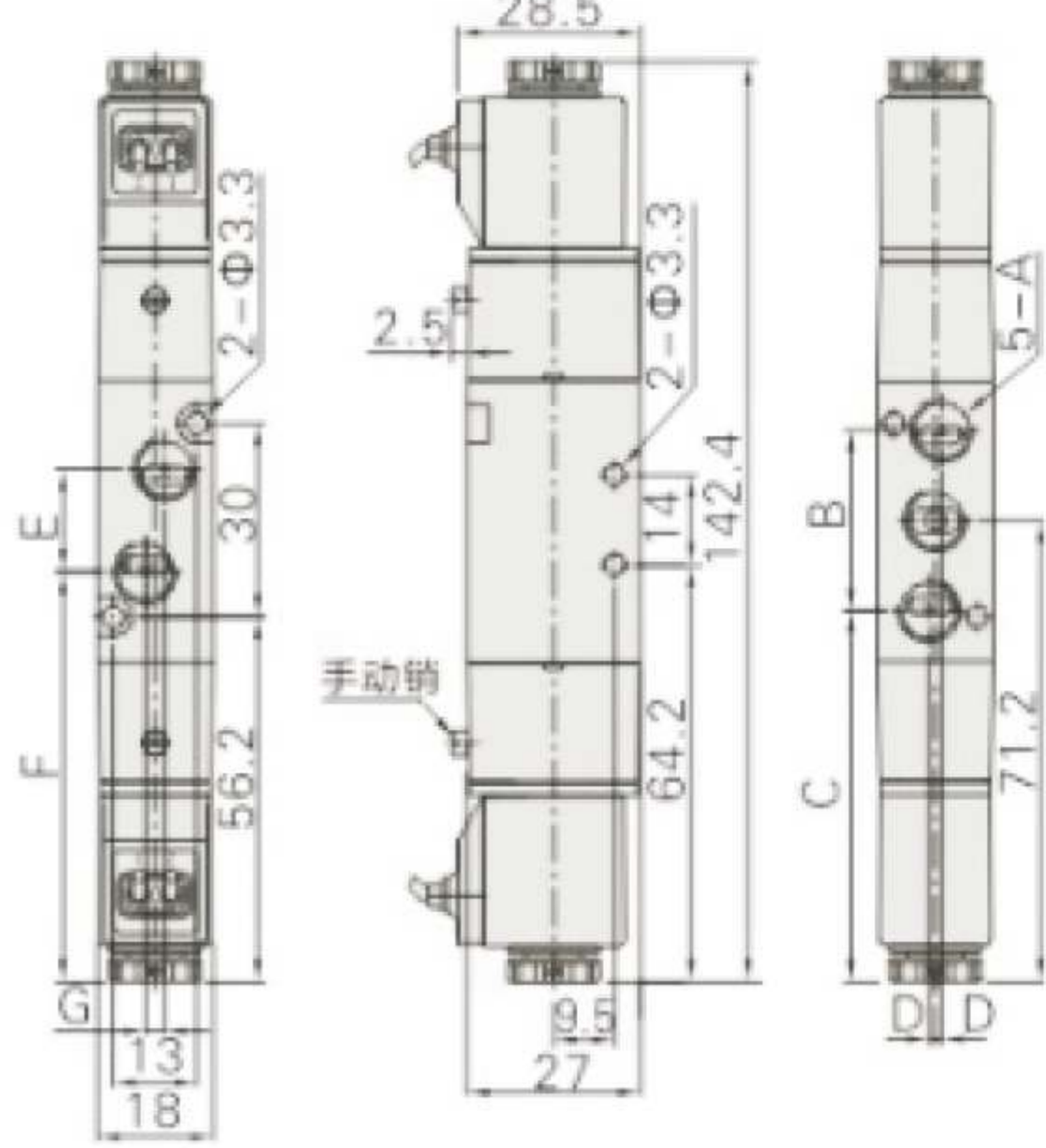
4V130C



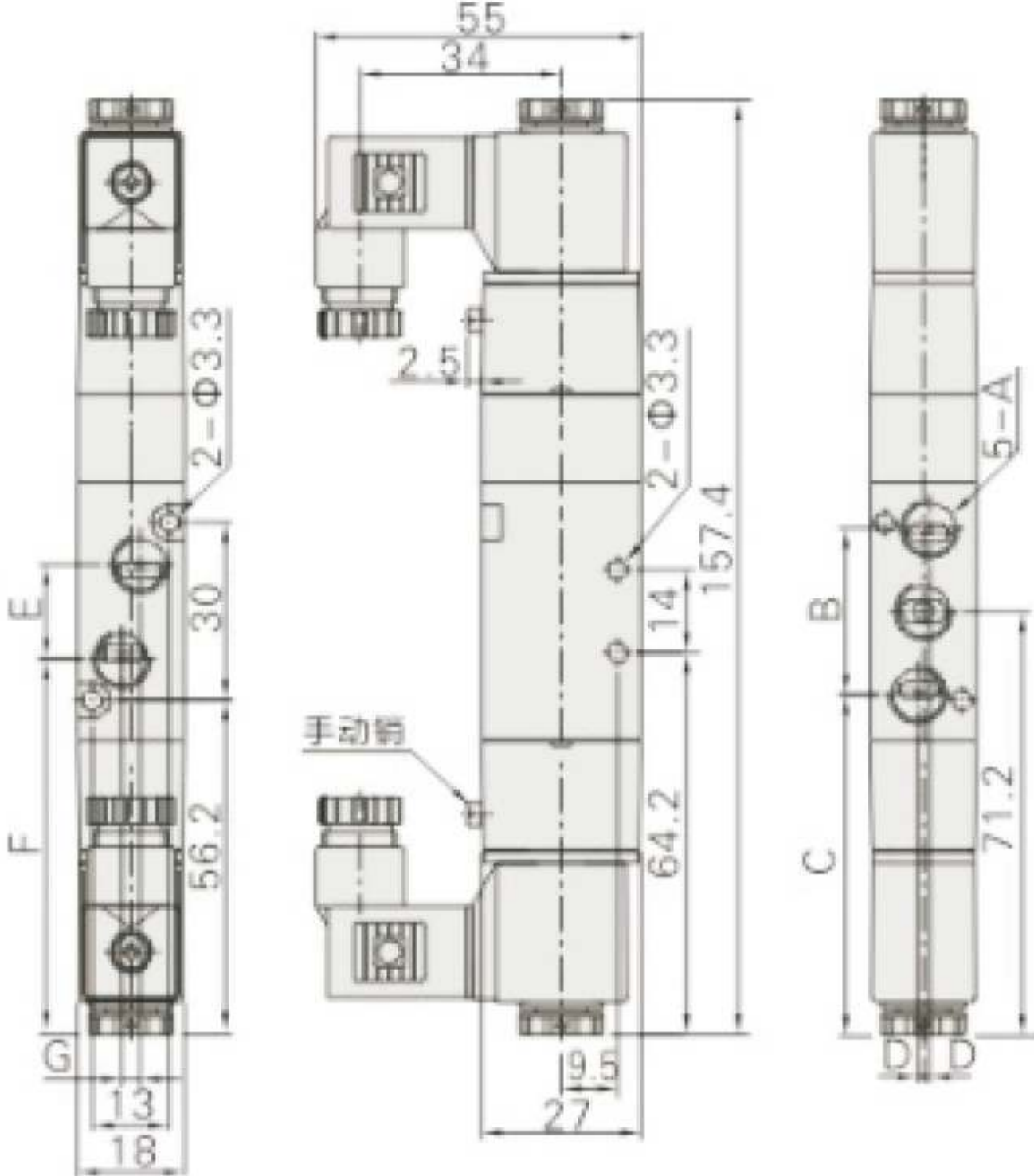
Dimensional drawing(mm)



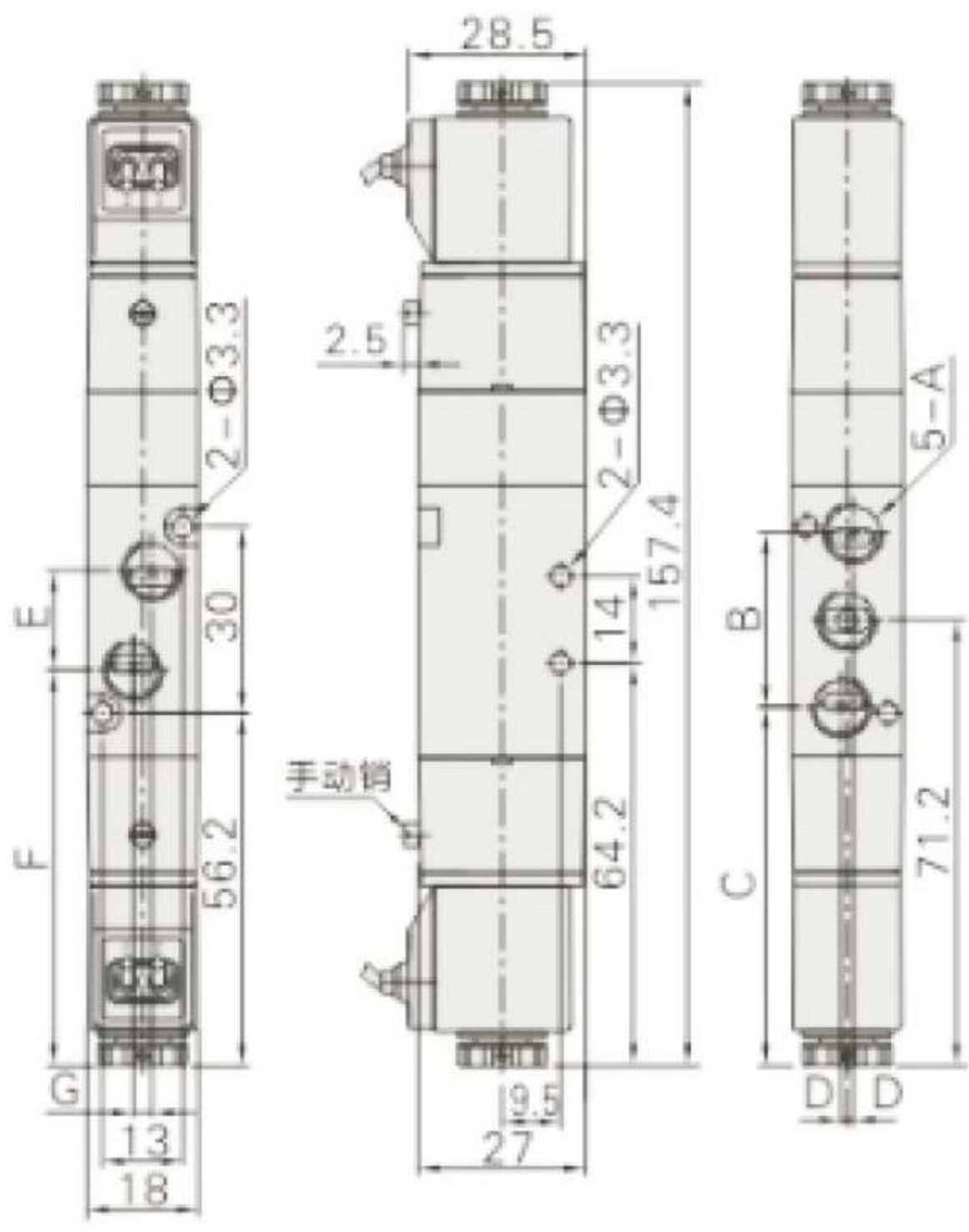
4V120 outlet type



4V130DIN socket type



4V130 outlet type



| Model \ Symbol | A        | B  | C    | D | E  | F    | G | Model \ Symbol | A        | B  | C    | D | E  | F    | G |
|----------------|----------|----|------|---|----|------|---|----------------|----------|----|------|---|----|------|---|
| 4V110-M5       | M5 × 0.8 | 27 | 14.7 | 0 | 14 | 21.2 | 0 | 4V110-M5       | G1/8     | 28 | 57.2 | 1 | 16 | 63.2 | 3 |
| 4V110-06       | G1/8     | 28 | 14.2 | 1 | 16 | 20.2 | 3 | 4V110-06       | M5 × 0.8 | 27 | 57.7 | 0 | 14 | 64.3 | 0 |
| 4V120-M5       | M5 × 0.8 | 27 | 57.7 | 0 | 14 | 64.3 | 0 | 4V120-M5       | G1/8     | 28 | 57.2 | 1 | 16 | 63.2 | 3 |



Standard Specification

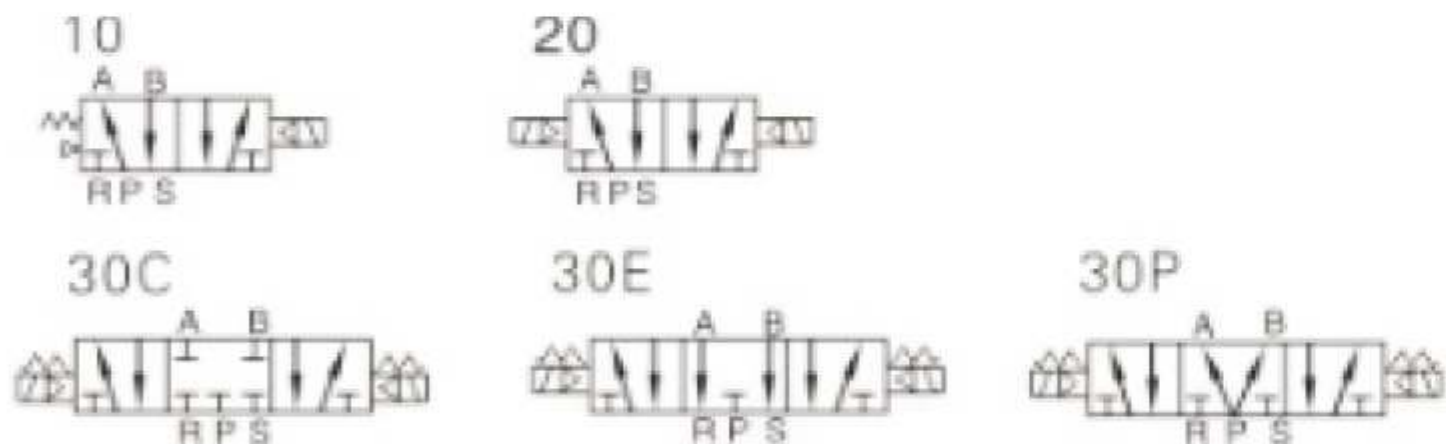
| Model                          | 4V210-06<br>4V220-06                      | 4V230C-06<br>4V230E-06<br>4V230P-06 | 4V210-08<br>4V220-08           | 4V230C-08<br>4V230E-08<br>4V230P-08 |
|--------------------------------|-------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| Working medium                 | Air (filtered by a 40um or higher filter) |                                     |                                |                                     |
| Action mode                    | Pilot                                     |                                     |                                |                                     |
| *Pipe diameter                 | Inlet = Outlet = Exhaust = G1/8           |                                     | Inlet=Outlet=G1/4 Exhaust=G1/8 |                                     |
| Effective cross-sectional area | 14mm² (Cv=0.78)                           | 12mm² (Cv=0.67)                     | 16mm² (Cv=0.89)                | 12mm² (Cv=0.67)                     |
| Number of positions            | Three mouths and two bits                 |                                     |                                |                                     |
| **Lubrication                  | Five mouths, two places                   | Five mouths three                   | Five two                       | Five three                          |
| Use pressure range             | 0.15-0.8MPa(21~114psi)                    |                                     |                                |                                     |
| Guaranteed pressure resistance | 1.5Mpa(215psi)                            |                                     |                                |                                     |
| Operating temperature          | -20-70                                    |                                     |                                |                                     |
| Body material                  | Aluminum alloy                            |                                     |                                |                                     |
| **Lubrication                  | Not required                              |                                     |                                |                                     |
| ***Maximum movement frequency  | 5 times/second                            | 3 times/second                      | 5 times/second                 | 3 times/second                      |
| Weight                         | 4V210-06:220g<br>4V220-06:320g            | 360g                                | 4V210-08:220g<br>4V220-08:320g | 360g                                |

\*Takeover tooth type with PT, NPT available  
\*\*If there is oil lubrication, it cannot be stopped in the middle, and the recommended lubricant is ISOVG32 or the same level of oil.  
\*\*\*Maximum operation frequency is no-load condition.

Electrical performance parameters

| Item                        | Specific parameters             |
|-----------------------------|---------------------------------|
| Standard Voltage            | AC220V、AC110V、AC24V、DC24V、DC12V |
| Operating voltage range     | AC:±15% DC:±10%                 |
| Power consumption           | AC:6VA DC: 4.8W                 |
| Protection level            | IP65(DIN40050)                  |
| Heat resistance class       | Class B                         |
| Electrical type             | DIN socket type, outlet type    |
| Excitation time             | Less than 0.05 seconds          |
| Maximum operation frequency | 5 times/sec                     |

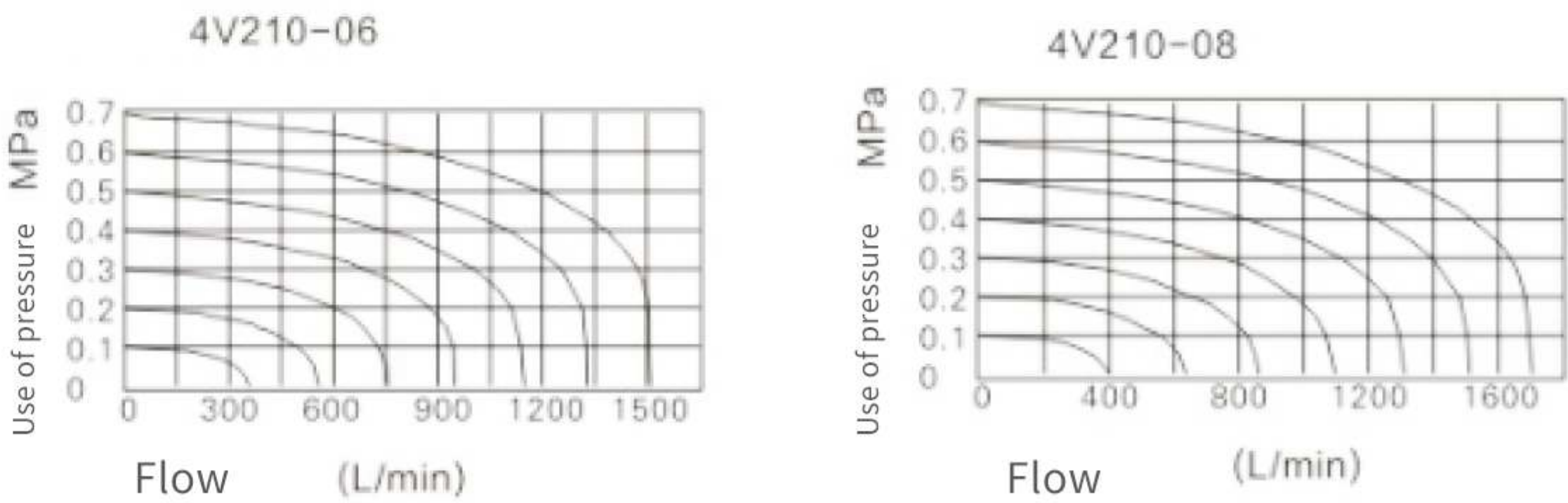
Symbols



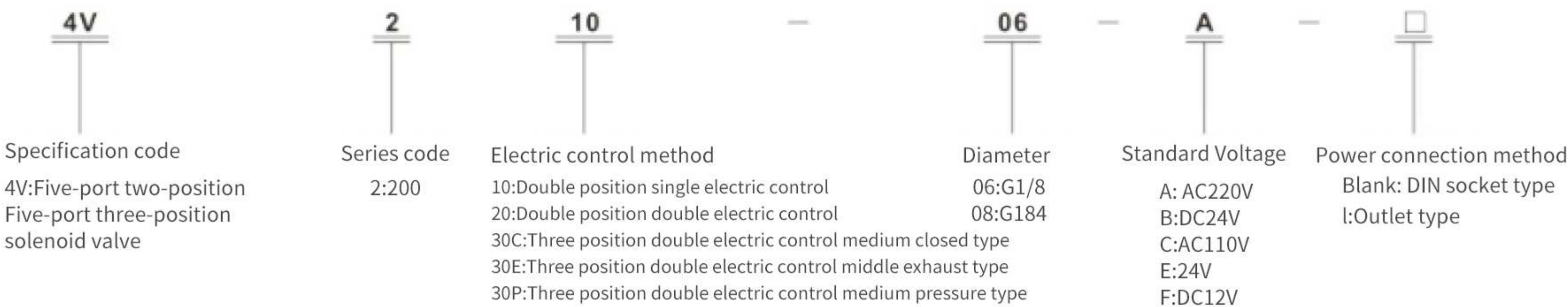
Product Features

1. Pilot method: external and internal optional.
2. Sliding column structure, good sealing, responsive.
3. Three position solenoid valve has three central functions to choose.
4. Double-headed two-position solenoid valve with memory function.
5. The inner bore is processed by special technology, low friction resistance, low starting air pressure, long service life.
6. No need for oil lubrication.
7. Can be integrated with the base valve group, saving installation space.
8. With manual device, easy to install and debug.
9. A variety of standard voltage levels are available for selection

Flow Characteristics

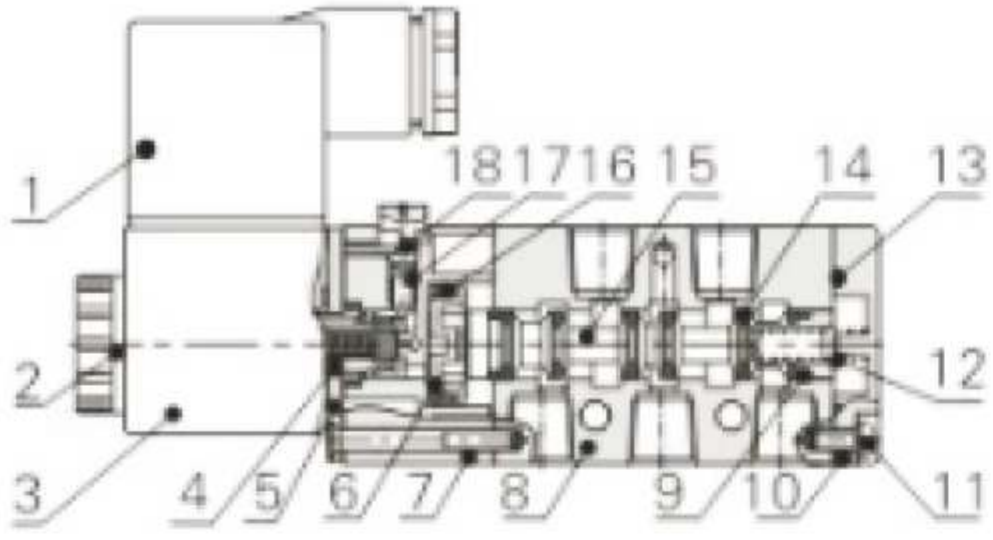


Model number indication method

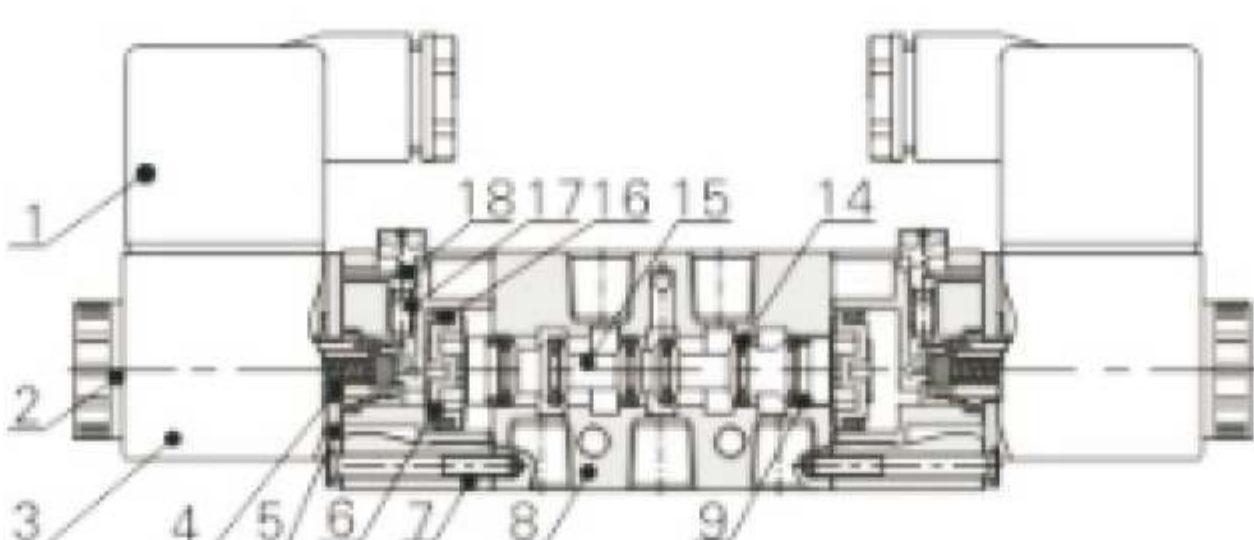


Internal structure

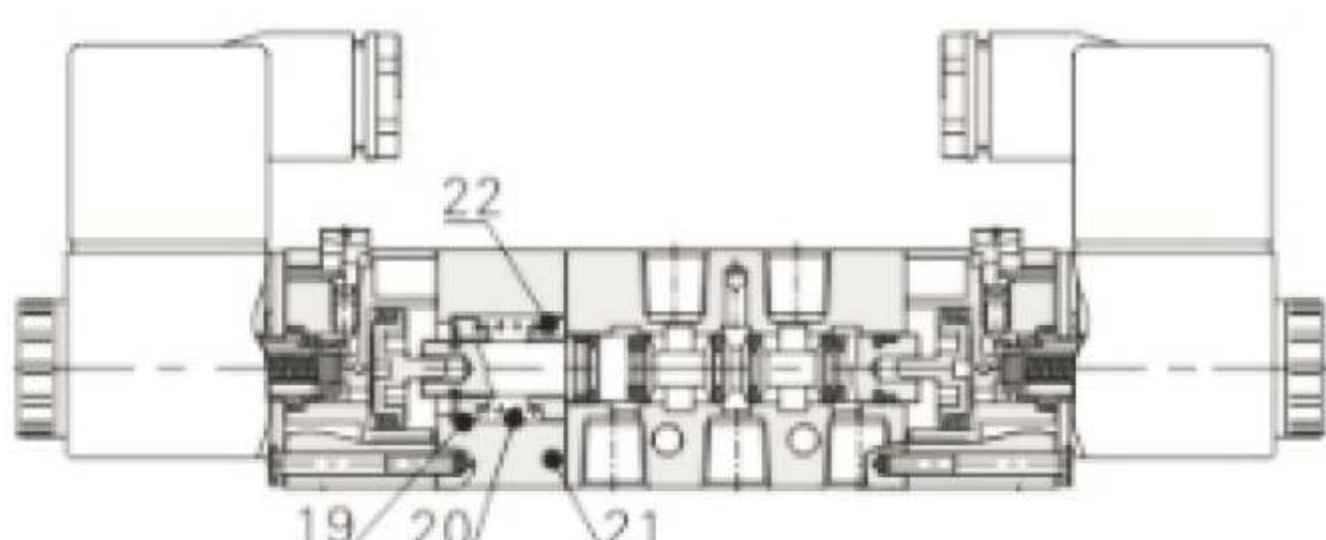
4V210



4V220



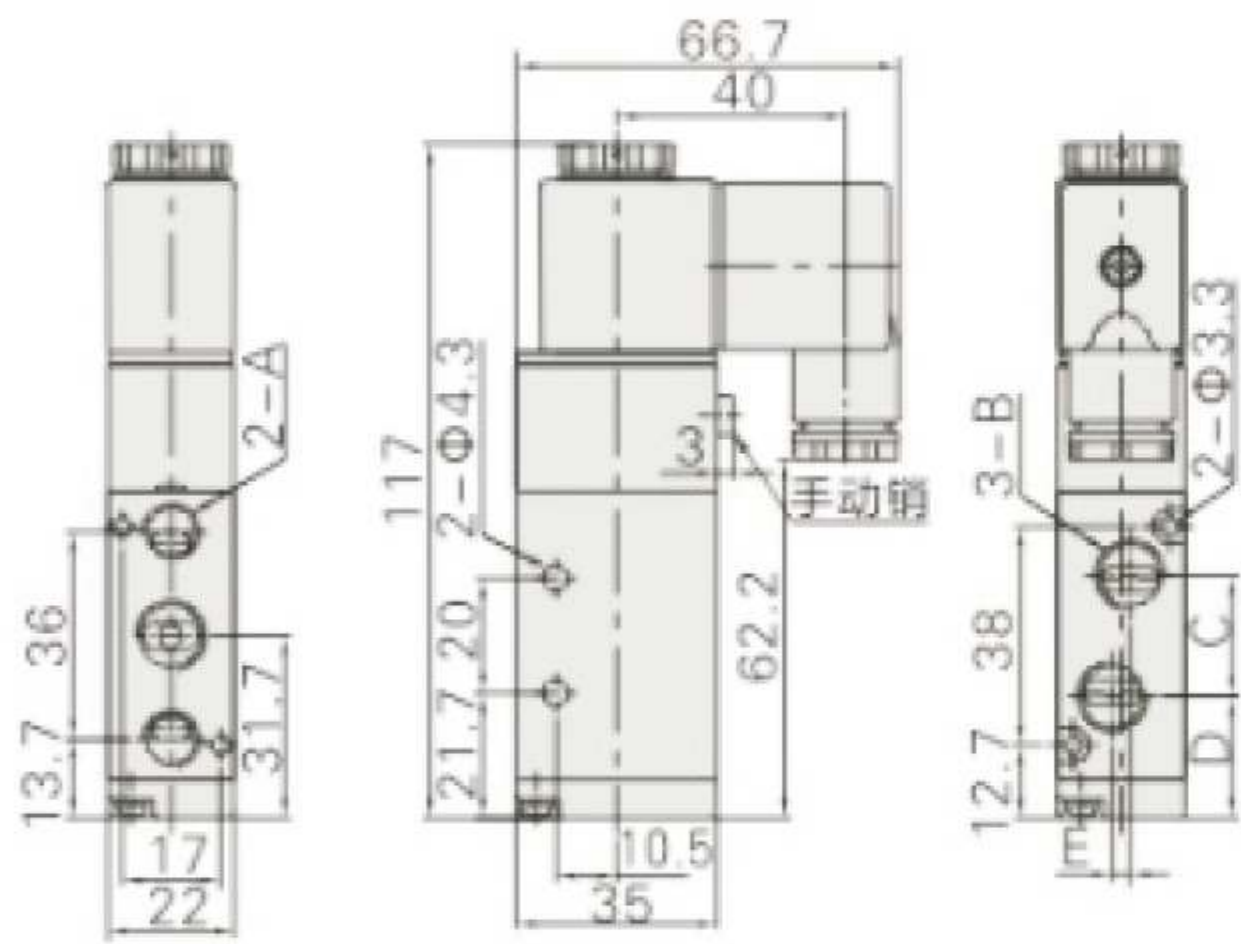
4V230C



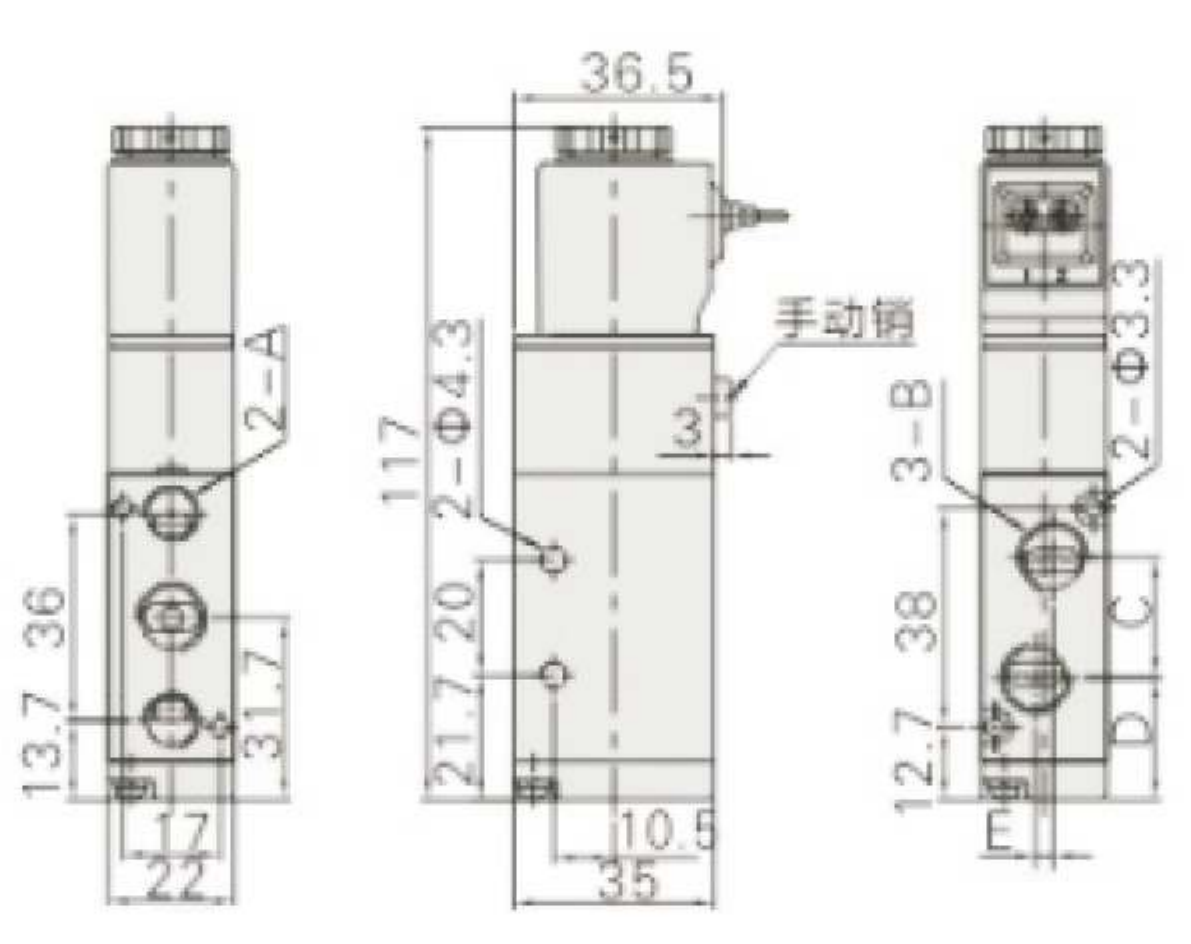
| Number | Name              | Number | Name                | Number | Name              | Number | Name           | Number | Name             |
|--------|-------------------|--------|---------------------|--------|-------------------|--------|----------------|--------|------------------|
| 1      | Round head screws | 5      | Body                | 9      | Piston            | 13     | Screw          | 17     | E shaped grommet |
| 2      | Spring            | 6      | O-ring              | 10     | Guide body        | 14     | Restore Seat   | 18     | Side cover       |
| 3      | Bottom cover      | 7      | Shaft core          | 11     | O-ring            | 15     | Restore Spring | 19     |                  |
| 4      | Stop gasket       | 8      | Wear-resistant ring | 12     | Round head screws | 16     | Return seat    | 20     |                  |

Dimensional drawing(mm)

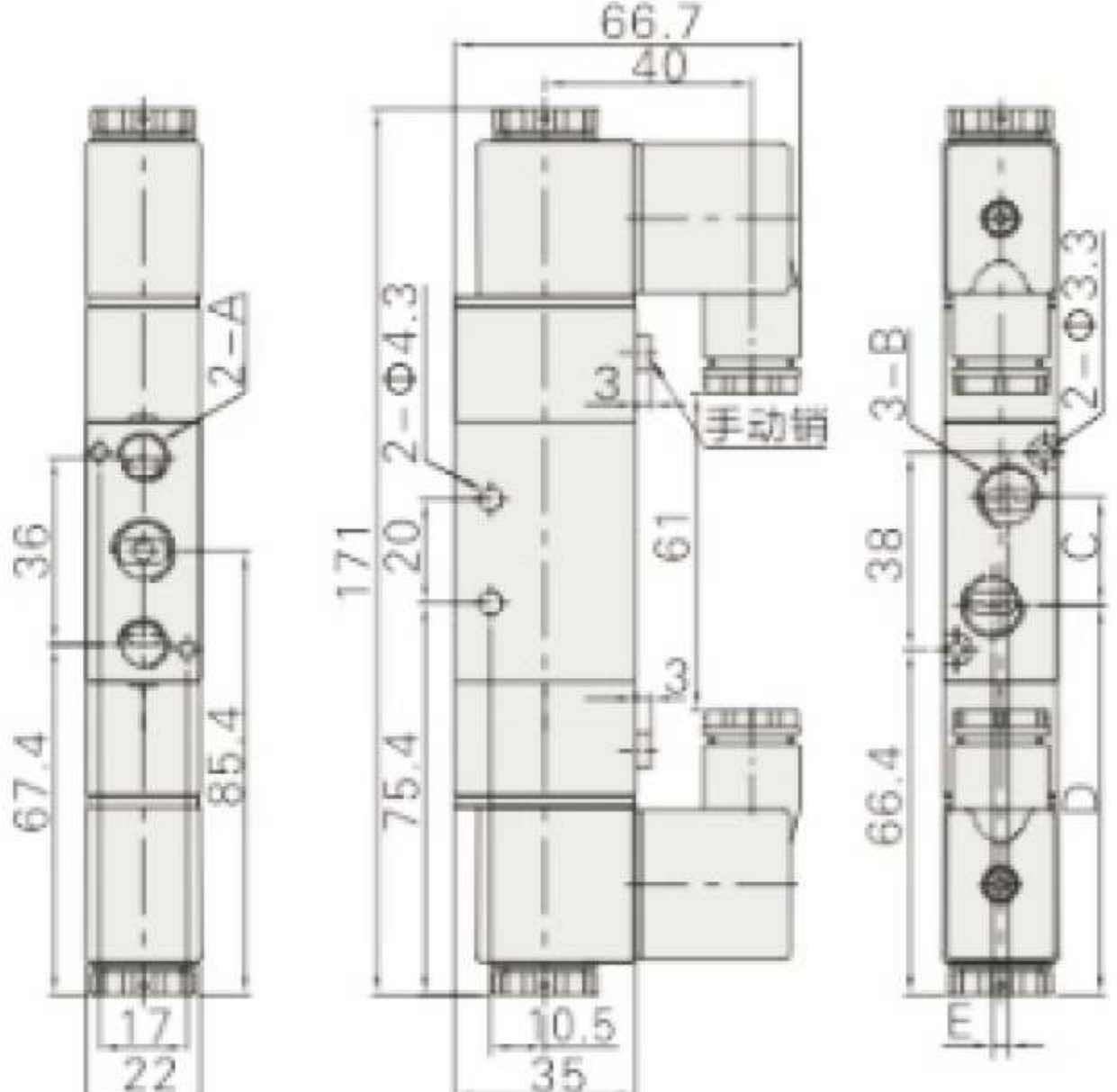
4V210DIN socket type



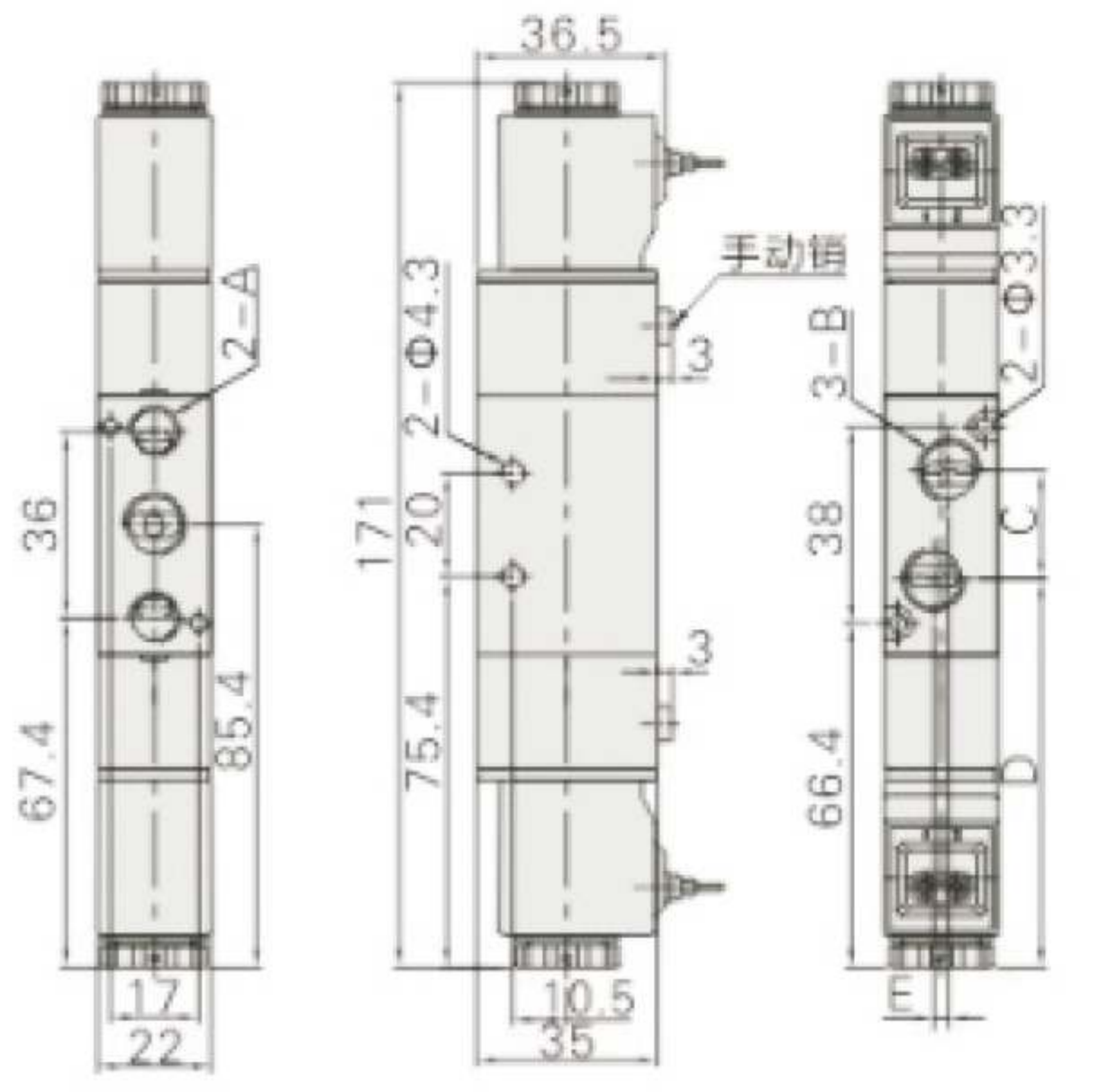
4V210 outlet type



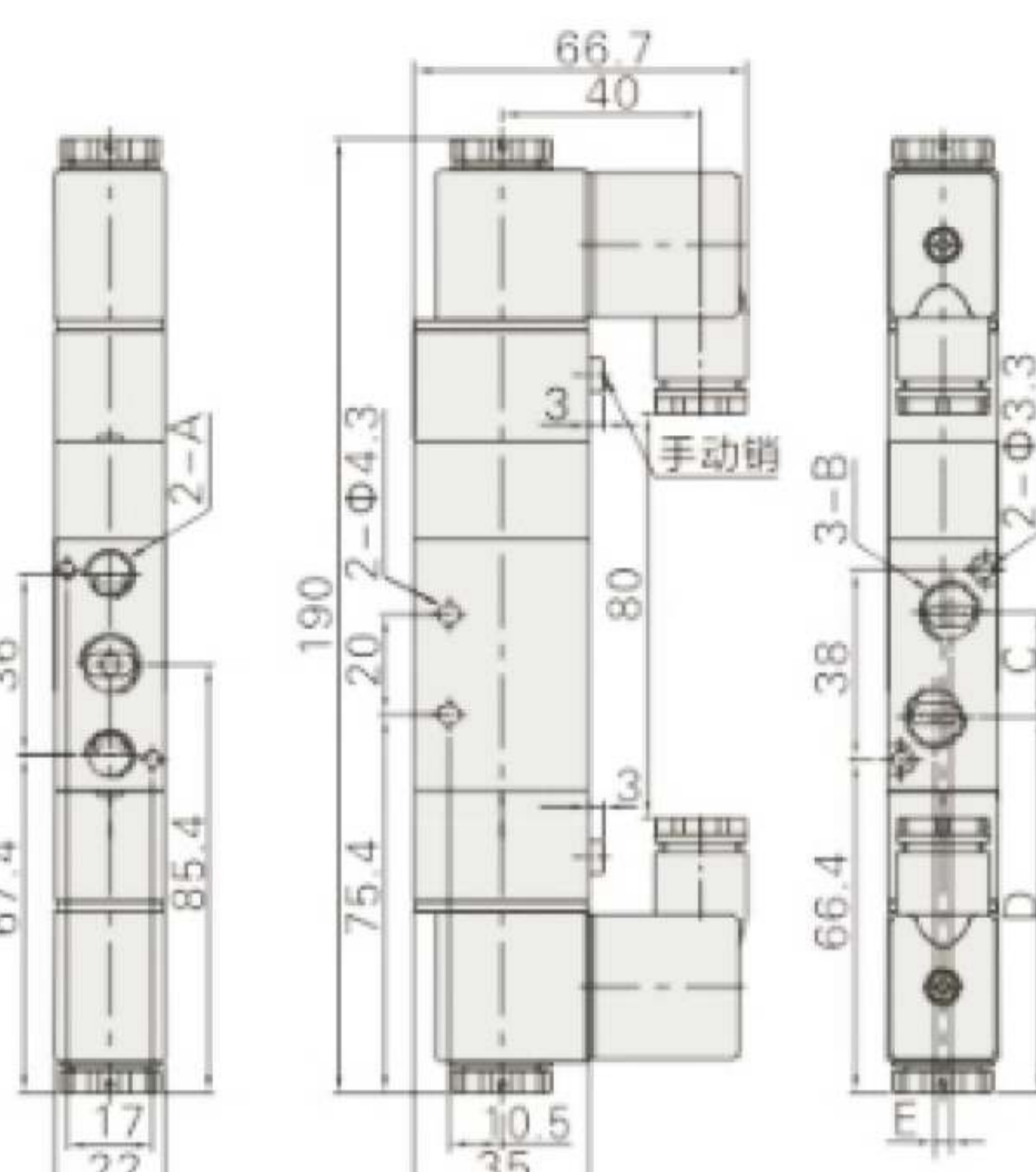
4V220DIN socket type



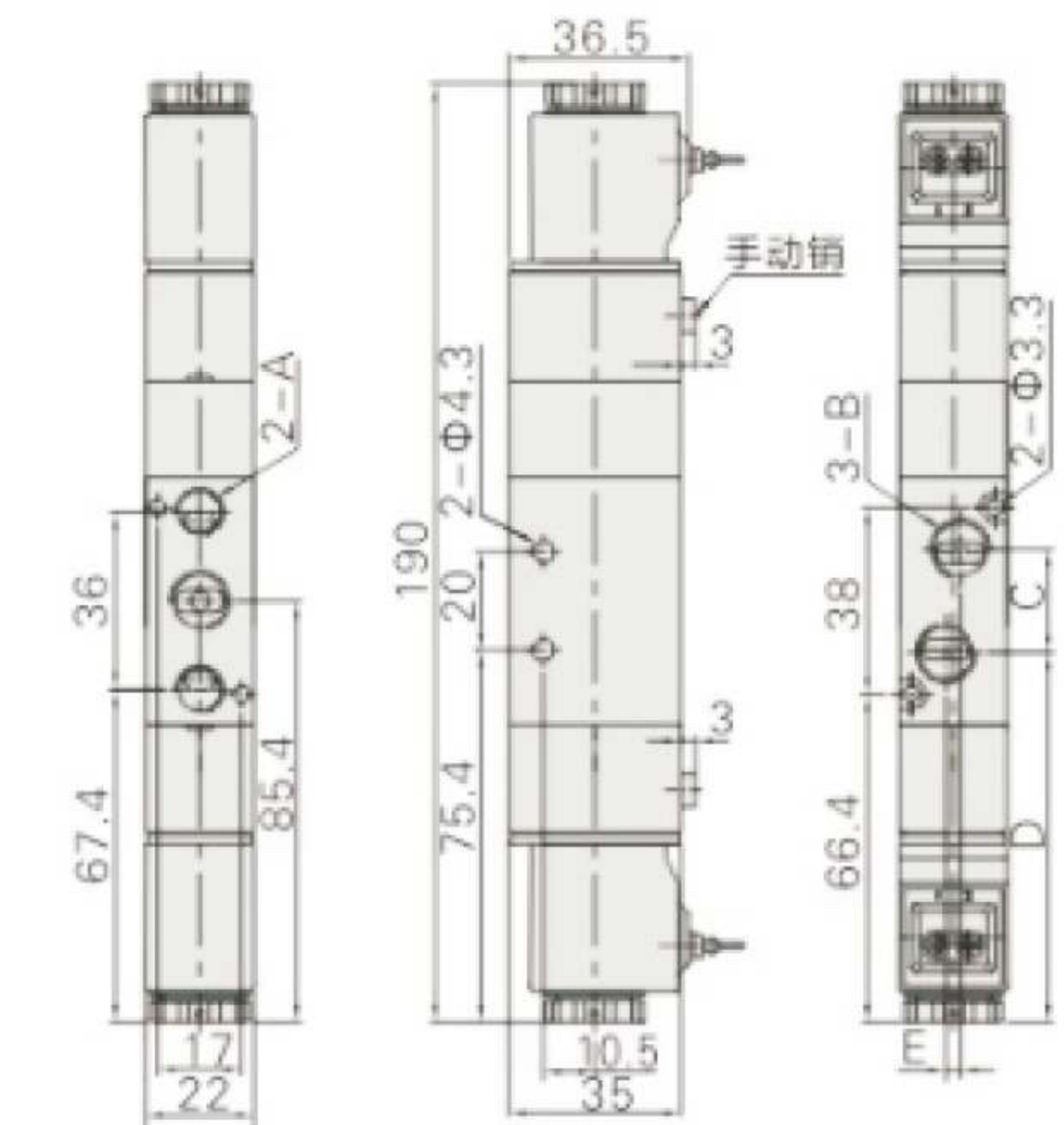
4V220 outlet type



4V230DIN socket type



4V230 outlet type



| Model \ Symbol | A    | B    | C  | D    | E | Model \ Symbol | A    | B    | C  | D    | E |
|----------------|------|------|----|------|---|----------------|------|------|----|------|---|
| 4V210-06       | G1/8 | G1/8 | 18 | 22.7 | 0 | 4V220-08       | G1/8 | G1/4 | 21 | 74.9 | 3 |
| 4V210-08       | G1/8 | G1/4 | 21 | 21.2 | 3 | 4V230-06       | G1/8 | G1/8 | 18 | 76.4 | 0 |
| 4V220-06       | G1/8 | G1/8 | 18 | 76.4 | 0 | 4V230-08       | G1/8 | G1/4 | 21 | 74.9 | 3 |



Standard Specification

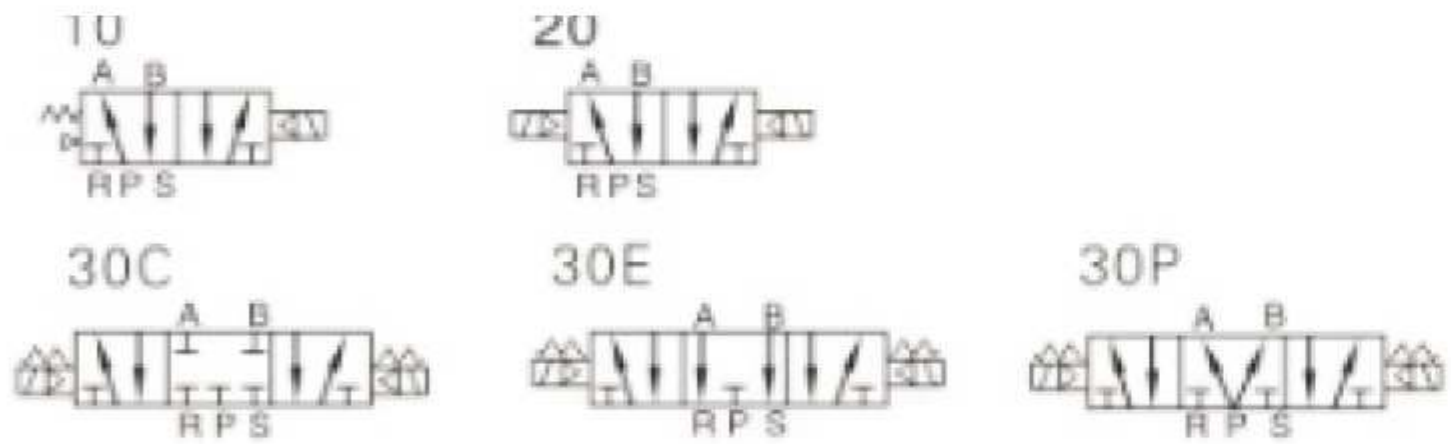
| Model                          | 4V310-08<br>4V320-08                      | 4V330C-08<br>4V330E-08<br>4V330P-08 | 4V310-10<br>4V320-10           | 4V330C-10<br>4V330E-10<br>4V330P-10 |
|--------------------------------|-------------------------------------------|-------------------------------------|--------------------------------|-------------------------------------|
| Working medium                 | Air (filtered by a 40um or higher filter) |                                     |                                |                                     |
| Action mode                    | Pilot                                     |                                     |                                |                                     |
| *Pipe diameter                 | Inlet = Outlet = Exhaust = G1/4           |                                     | Inlet=Outlet=G3/8 Exhaust=G1/4 |                                     |
| Effective cross-sectional area | 25mm² (Cv=1.40)                           | 18.0mm² (Cv=1.00)                   | 30.0mm² (Cv=1.68)              | 18.0mm² (Cv=1.00)                   |
| Number of positions            | Five mouths, two places                   | Five mouths three                   | Five two                       | Five three                          |
| Use pressure range             | 0.15-0.8MPa(21~114psi)                    |                                     |                                |                                     |
| Guaranteed pressure resistance | 1.5Mpa(215psi)                            |                                     |                                |                                     |
| Operating temperature          | -20-70                                    |                                     |                                |                                     |
| Body material                  | Aluminum alloy                            |                                     |                                |                                     |
| **Lubrication                  | Not required                              |                                     |                                |                                     |
| ***Maximum movement frequency  | 4 times/second                            | 3 times/second                      | 4 times/second                 | 3 times/second                      |
| Weight                         | 4V310-08:310g<br>4V320-08:400g            | 450g                                | 4V310-10:310g<br>4V320-10:400g | 450g                                |

\*Takeover tooth type with PT, NPT available  
\*\*If there is oil lubrication, it cannot be stopped in the middle, and the recommended lubricant is ISOVG32 or the same level of oil.  
\*\*\*Maximum operation frequency is no-load condition.

Electrical performance parameters

| Item                        | Specific parameters             |
|-----------------------------|---------------------------------|
| Standard Voltage            | AC220V、AC110V、AC24V、DC24V、DC12V |
| Operating voltage range     | AC:±15% DC:±10%                 |
| Power consumption           | AC:6VA DC: 4.8W                 |
| Protection level            | IP65(DIN40050)                  |
| Heat resistance class       | Class B                         |
| Electrical type             | DIN socket type, outlet type    |
| Excitation time             | Less than 0.05 seconds          |
| Maximum operation frequency | 5 times/sec                     |

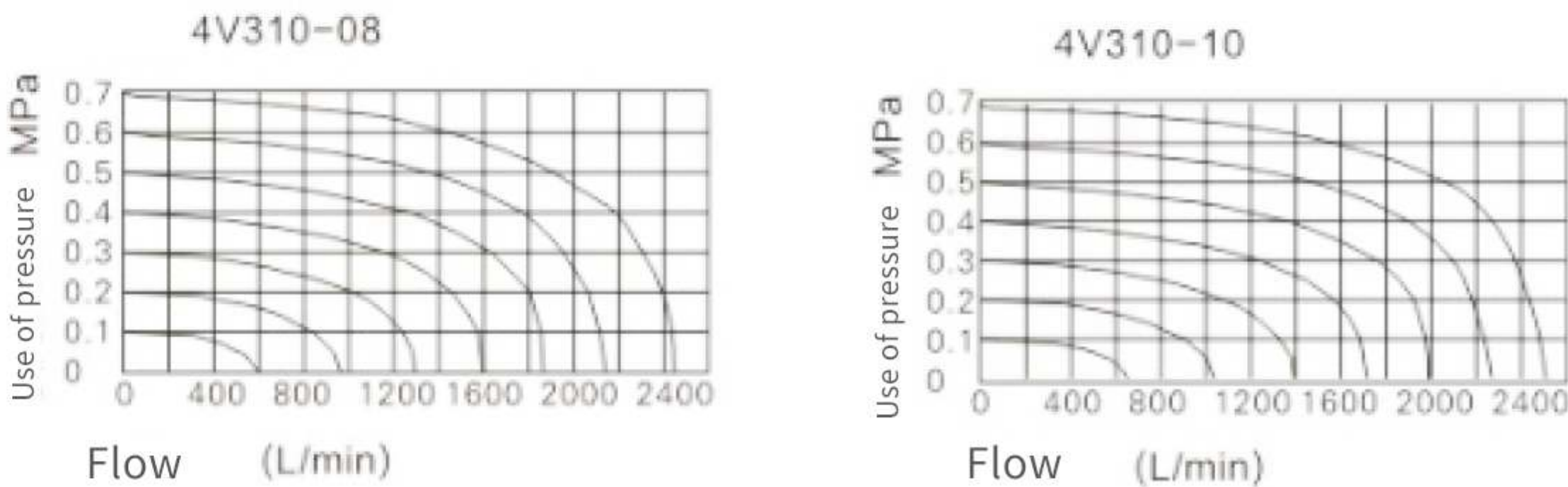
Symbols



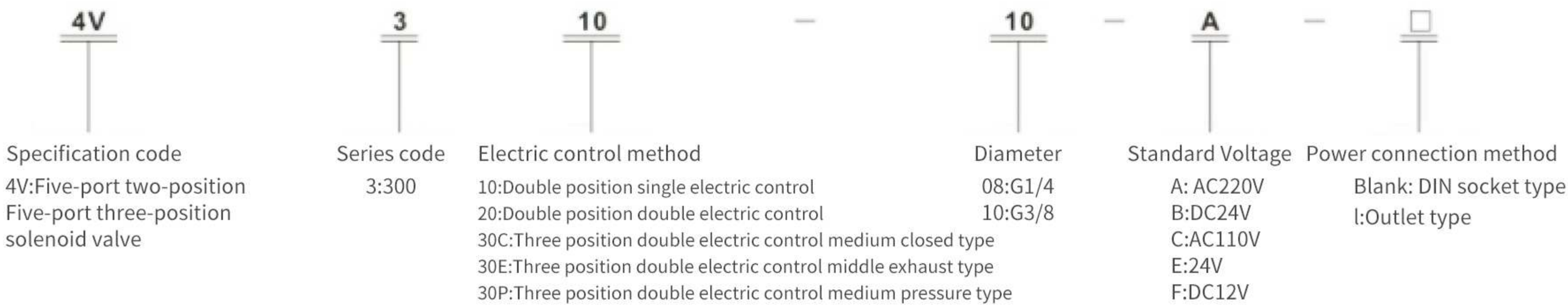
Product Features

- 1. Pilot method: external and internal optional.
- 2. Sliding column structure, good sealing, responsive.
- 3.Three position solenoid valve has three central functions to choose.
- 4. Double-headed two-position solenoid valve with memory function.
- 5. The inner bore is processed by special technology, low friction resistance, low starting air pressure, long service life.
- 6. No need for oil lubrication.
- 7. Can be integrated with the base valve group, saving installation space.
- 8. With manual device, easy to install and debug.
- 9. A variety of standard voltage levels are available for selection

Flow Characteristics

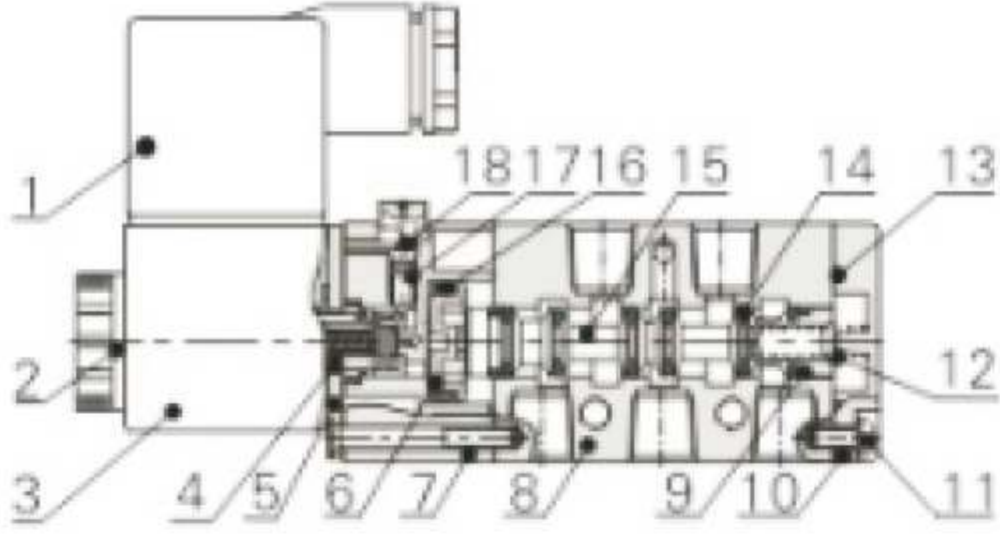


Model number indication method

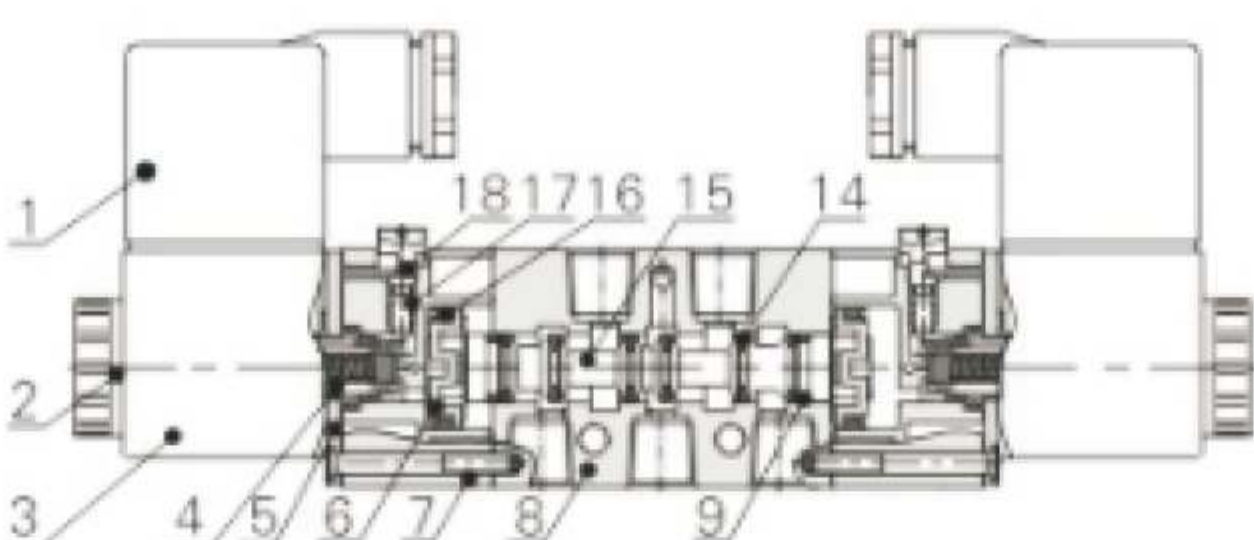


Internal structure

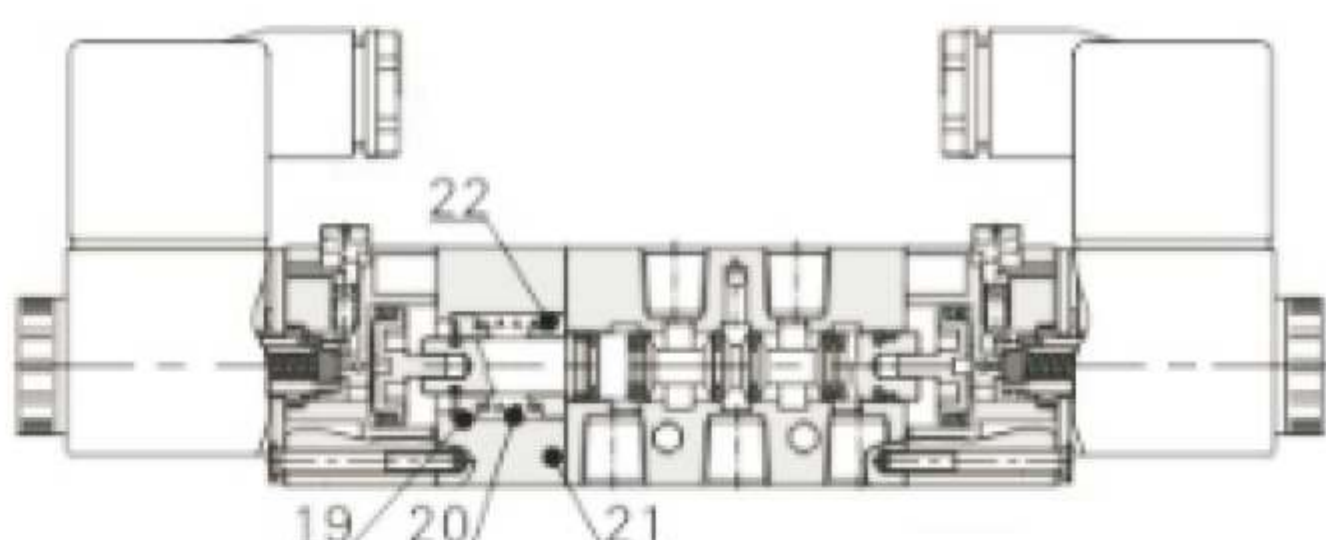
4V310



4V320

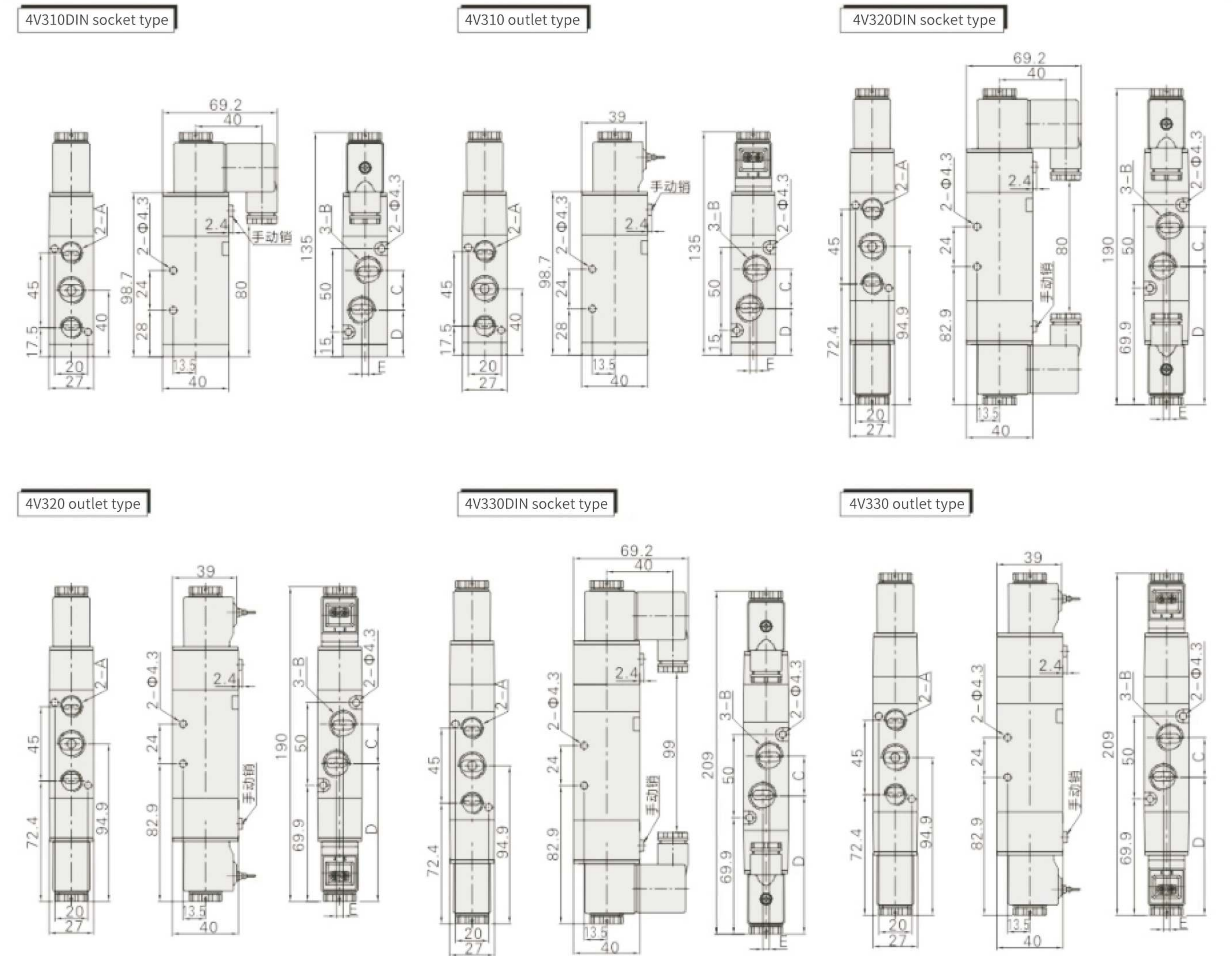


4V330C



| Number | Name              | Number | Name                | Number | Name              | Number | Name           | Number | Name             |
|--------|-------------------|--------|---------------------|--------|-------------------|--------|----------------|--------|------------------|
| 1      | Round head screws | 5      | Body                | 9      | Piston            | 13     | Screw          | 17     | E shaped grommet |
| 2      | Spring            | 6      | O-ring              | 10     | Guide body        | 14     | Restore Seat   | 18     | Side cover       |
| 3      | Bottom cover      | 7      | Shaft core          | 11     | O-ring            | 15     | Restore Spring | 19     |                  |
| 4      | Stop gasket       | 8      | Wear-resistant ring | 12     | Round head screws | 16     | Return seat    | 20     |                  |

Dimensional drawing(mm)



| Model \ Symbol | A    | B    | C  | D    | E | Model \ Symbol | A    | B    | C  | D    | E |
|----------------|------|------|----|------|---|----------------|------|------|----|------|---|
| 4V310-08       | G1/4 | G1/4 | 22 | 29   | 0 | 4V320-10       | G1/4 | G3/8 | 24 | 82.9 | 4 |
| 4V310-10       | G1/4 | G3/8 | 24 | 28   | 4 | 4V330-08       | G1/4 | G1/4 | 22 | 83.9 | 0 |
| 4V320-08       | G1/4 | G1/4 | 22 | 83.9 | 0 | 4V330-10       | G1/4 | G3/8 | 24 | 82.9 | 4 |



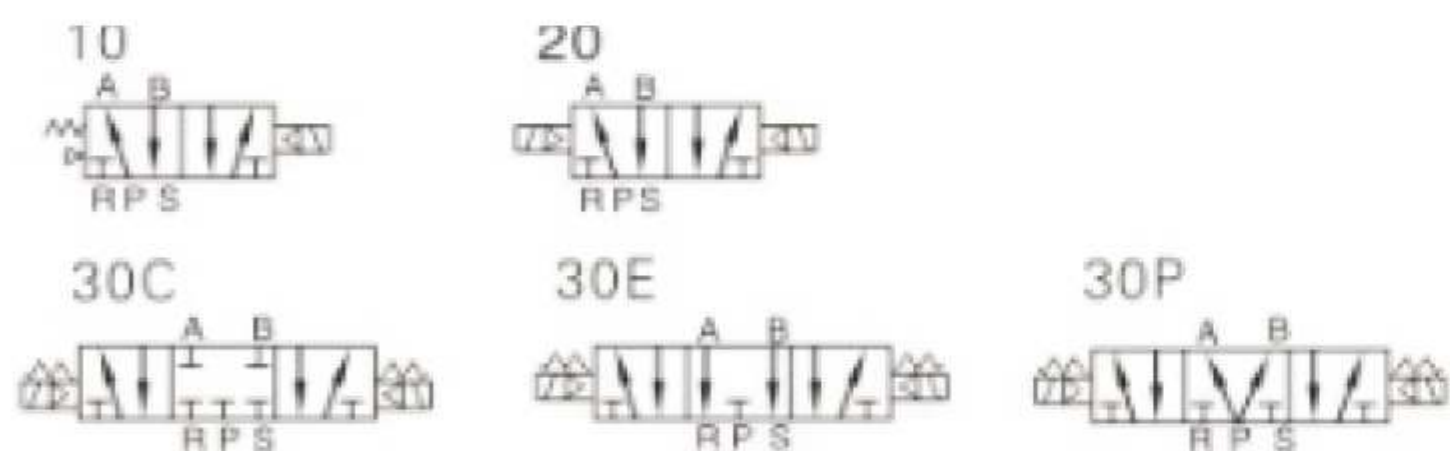
Standard Specification

| Model                          | 4V410-15                                  | 4V420-15 | 4V430C-15                     | 4V430E-15 | 4V430P-15 |
|--------------------------------|-------------------------------------------|----------|-------------------------------|-----------|-----------|
| Working medium                 | Air (filtered by a 40um or higher filter) |          |                               |           |           |
| Action mode                    | Pilot                                     |          |                               |           |           |
| *Pipe diameter                 | Inlet = Outlet = Exhaust = G1/2           |          |                               |           |           |
| Effective cross-sectional area | 50mm <sup>2</sup> (Cv=2.79)               |          | 30.0mm <sup>2</sup> (Cv=1.68) |           |           |
| Number of positions            | Five mouths and two seats                 |          | Five mouths of three          |           |           |
| Use pressure range             | 0.15-0.8MPa(21~114psi)                    |          |                               |           |           |
| Guaranteed pressure resistance | 1.5Mpa(215psi)                            |          |                               |           |           |
| Operating temperature          | -20-70                                    |          |                               |           |           |
| Body material                  | Aluminum alloy                            |          |                               |           |           |
| **Lubrication                  | Not required                              |          |                               |           |           |
| ***Maximum movement frequency  | 3 times/second                            |          |                               |           |           |
| Weight                         | 590g                                      | 720g     |                               | 770g      |           |

Electrical performance parameters

| Item                        | Specific parameters             |
|-----------------------------|---------------------------------|
| Standard Voltage            | AC220V、AC110V、AC24V、DC24V、DC12V |
| Operating voltage range     | AC:±15% DC:±10%                 |
| Power consumption           | AC:6VA DC: 4.8W                 |
| Protection level            | IP65(DIN40050)                  |
| Heat resistance class       | Class B                         |
| Electrical type             | DIN socket type, outlet type    |
| Excitation time             | Less than 0.05 seconds          |
| Maximum operation frequency | 5 times/sec                     |

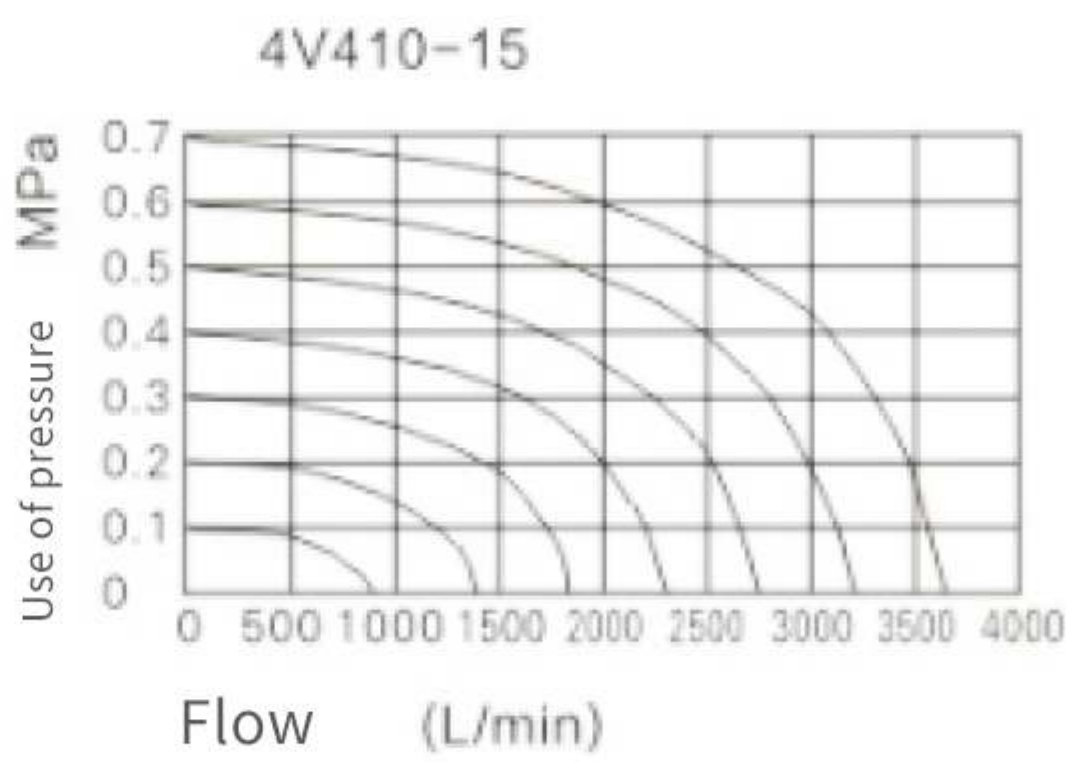
Symbols



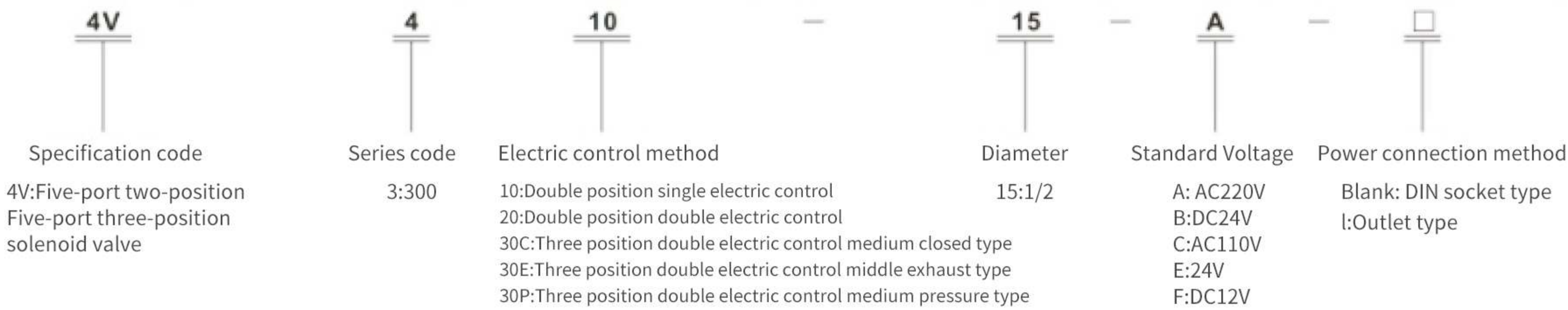
Product Features

- 1. Pilot method: external and internal optional.
- 2. Sliding column structure, good sealing, responsive.
- 3. Three position solenoid valve has three central functions to choose.
- 4. Double-headed two-position solenoid valve with memory function.
- 5. The inner bore is processed by special technology, low friction resistance, low starting air pressure, long service life.
- 6. No need for oil lubrication.
- 7. Can be integrated with the base valve group, saving installation space.
- 8. With manual device, easy to install and debug.
- 9. A variety of standard voltage levels are available for selection

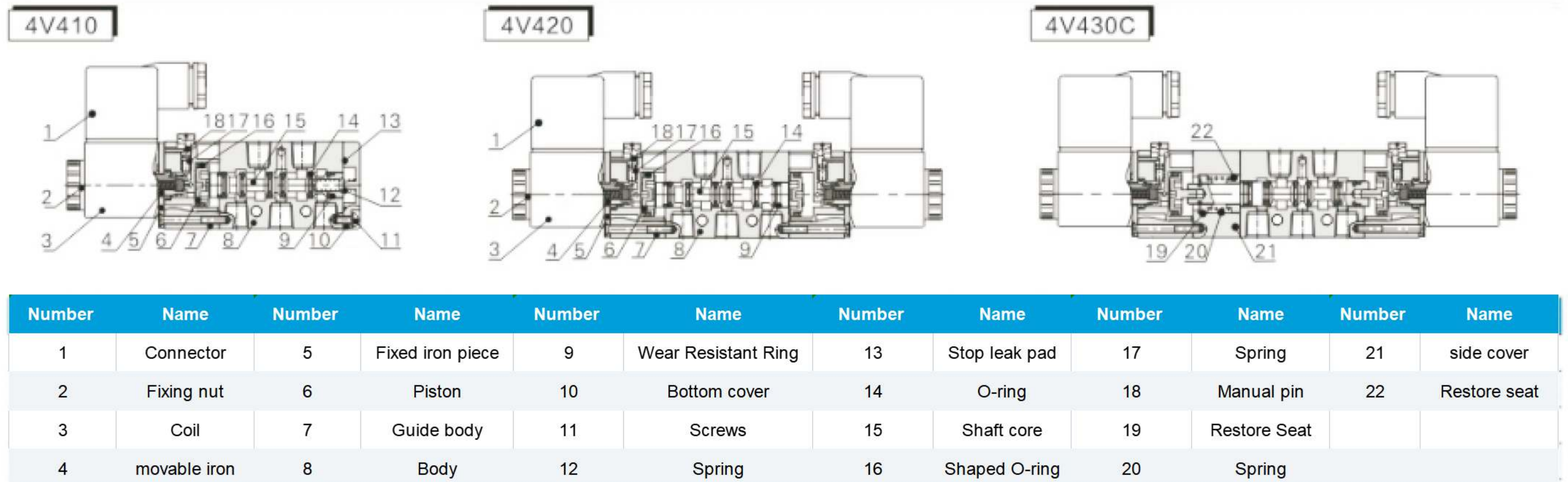
Flow Characteristics



Model number indication method



## Internal structure



Dimensional drawing(mm)

