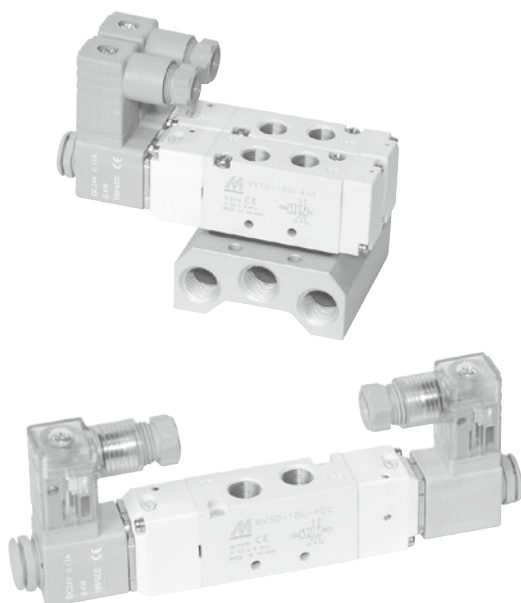


# MVSD-180 series

## SOLENOID VALVE



Mindman



### Specification

| Model                        | 3E1                           | 3E2   | 4E1                | 4E2   | 4E2 C.P.R         |
|------------------------------|-------------------------------|-------|--------------------|-------|-------------------|
| Bore No.                     | 6A                            |       |                    |       |                   |
| Port size                    | Rc1/8                         |       |                    |       |                   |
| No. of port                  | 3                             |       | 5                  |       |                   |
| No. of position              | 2                             |       |                    |       | 3                 |
| Medium                       | Air                           |       |                    |       |                   |
| Operating perssure range     | 0.15~0.8 MPa                  |       |                    |       | 0.2~0.7 MPa       |
| Operating pressue (LP)       | 0~0.8 MPa                     |       |                    |       | 0~0.7 MPa         |
| External pilot pressure (LP) | 0.15~0.8 MPa                  |       |                    |       | 0.2~0.7 MPa       |
| Proof pressure               | 1 MPa                         |       |                    |       |                   |
| Effective orifice            | 15 mm <sup>2</sup>            |       | 12 mm <sup>2</sup> |       | 9 mm <sup>2</sup> |
| Reponse time                 | 30 ms                         |       |                    |       |                   |
| Ambient temperature          | -5~+50°C (No freezing)        |       |                    |       |                   |
| Voltage                      | AC110V, 220V (50/60)Hz, DC24V |       |                    |       |                   |
| Power consumption            | AC=3.7/3.1VA, DC=2.4W         |       |                    |       |                   |
| Available voltage range      | ±10%                          |       |                    |       |                   |
| Insulation class             | F class                       |       |                    |       |                   |
| Weight                       | 120 g                         | 172 g | 124 g              | 176 g | 190 g             |

### Order example of valve

**MVSD — 180 — 4E2C — NC — AC110 — L — LP — G**

MODEL

BODY WIDTH

3: 3 way (3 port)  
4: 4 way (5 port)

E1: Single Solenoid  
E2: Double Solenoid

NC: Normally closed  
NO: Normally open  
(Only for 3E1 type)

C: Closed center  
P: Pressure center  
R: Exhaust center  
(Only for 4E2 type)

VOLTAGE  
AC220V(50/60)Hz  
AC110V(50/60)Hz  
DC24V

Blank: Standard  
LP: External pilot

PORT THREAD  
Blank: Rc thread  
G: G thread  
NPT: NPT thread

Blank: DIN connector  
L: DIN connector with LED indicator  
W: Lead wire (Only for MVSD series)

### Order example of manifold

\* Use the same manifold with MVSC1.

**MVSC1 — 180 — 3B3 — G**

MODEL

MANIFOLD

3B: 3 port (for body ported type)  
5B: 5 port (for body ported type)

MANIFOLD NUMBER

1, 2, 3...

PORT THREAD

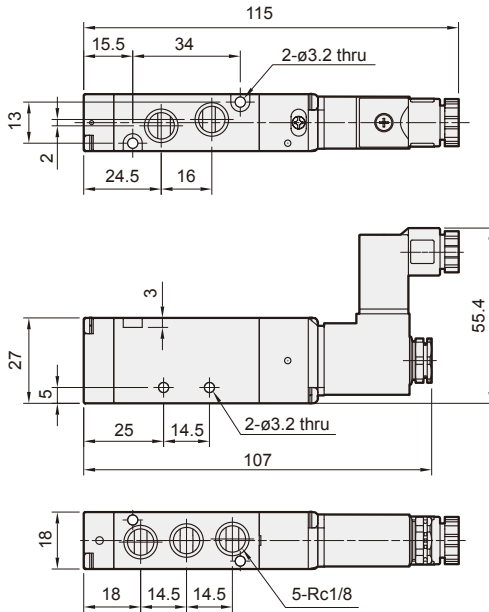
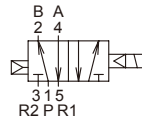
Blank: Rc thread  
G: G thread  
NPT: NPT thread

# MVSD-180 Dimensions

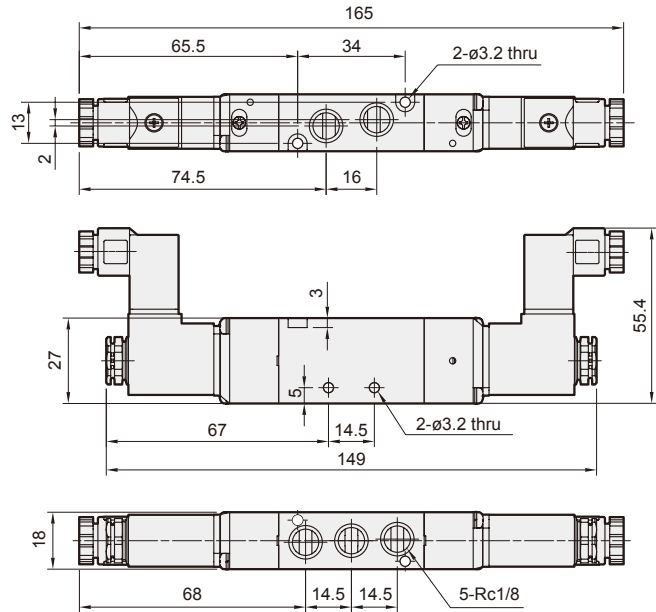
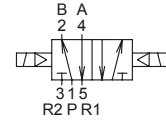
## SOLENOID VALVE



### MVSD-180-4E1



### MVSD-180-4E2

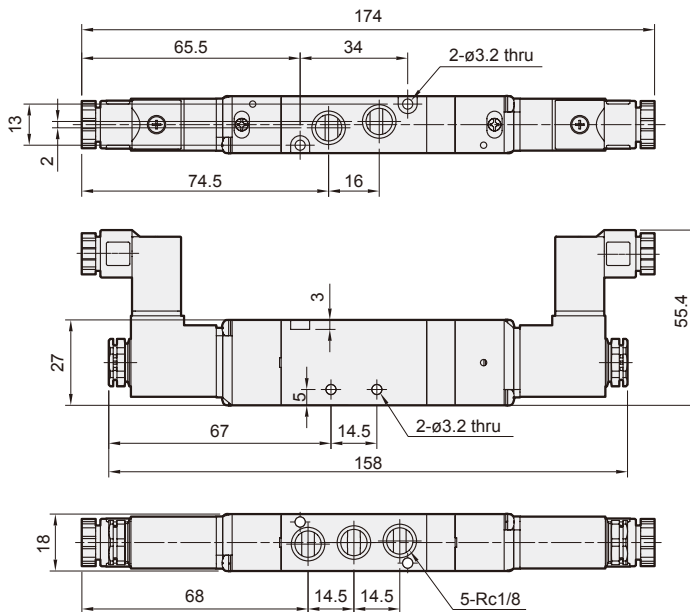
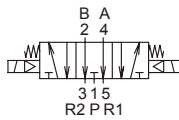
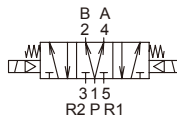
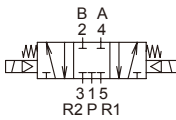


### MVSD-180-4E2C.PR

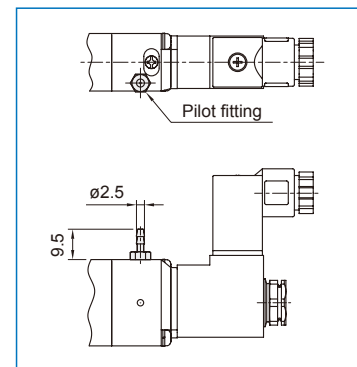
#### MVSD-180-4E2C

#### MVSD-180-4E2P

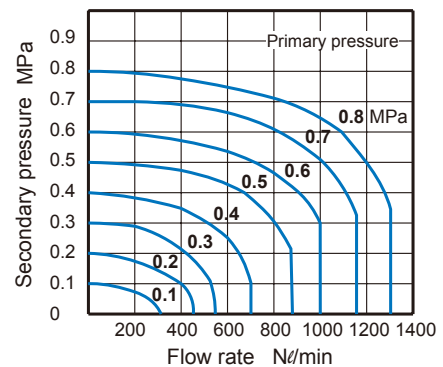
#### MVSD-180-4E2R



### LP



### Flow features



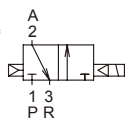
# MVSD-180 Dimensions

## SOLENOID VALVE

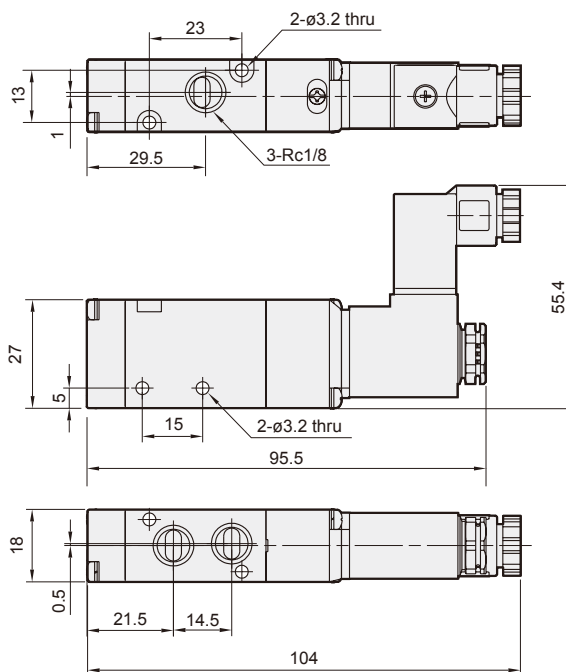
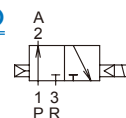


### MVSD-180-3E1-NC/NO

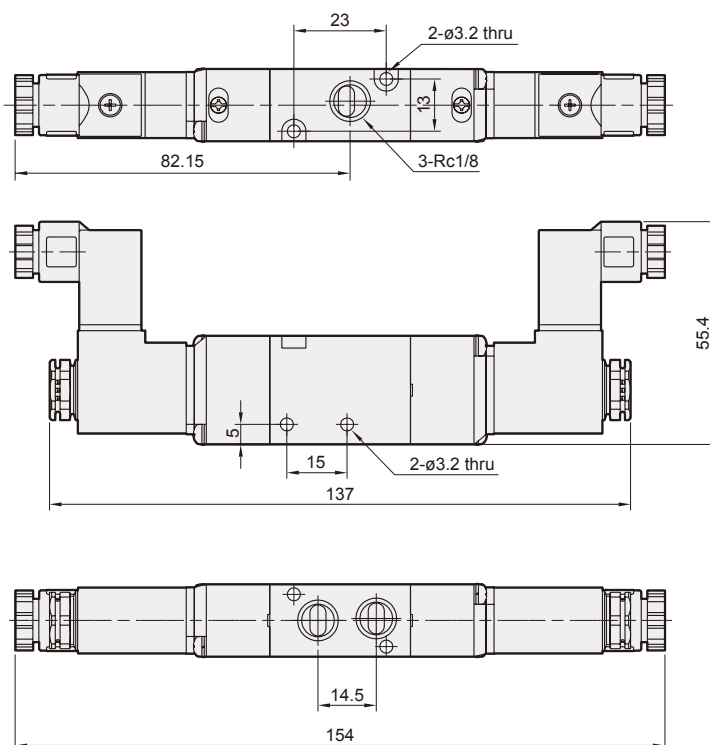
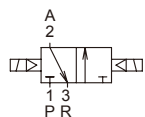
NC



NO



### MVSD-180-3E2



# MVSD-180 Manifold

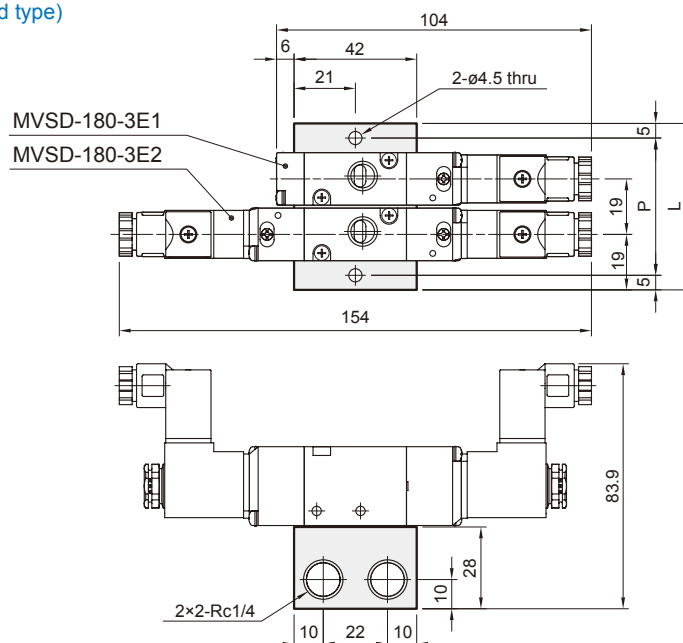
## SOLENOID VALVE



### MVSC1-180-3B\*

\* Use the same manifold with MVSC1.

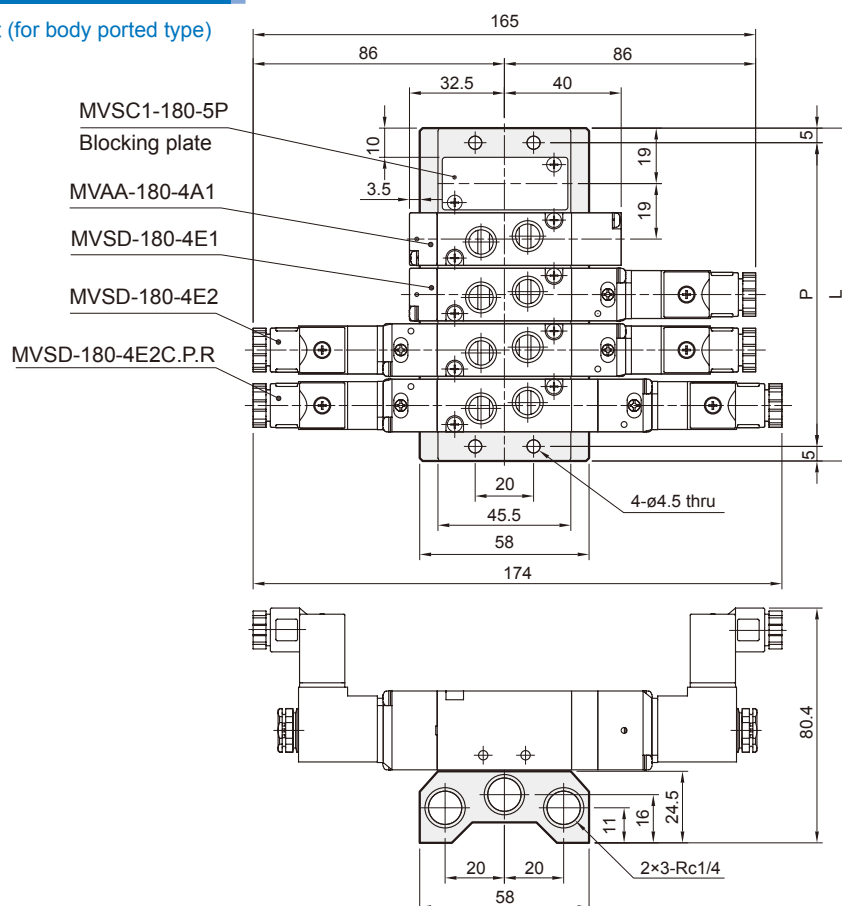
3 port (for body ported type)



| No. of stations | P   | L   |
|-----------------|-----|-----|
| 2               | 47  | 57  |
| 3               | 66  | 76  |
| 4               | 85  | 95  |
| 5               | 104 | 114 |
| 6               | 123 | 133 |
| 7               | 142 | 152 |
| 8               | 161 | 171 |
| 9               | 180 | 190 |
| 10              | 199 | 209 |

### MVSC1-180-5B\*

5 port (for body ported type)



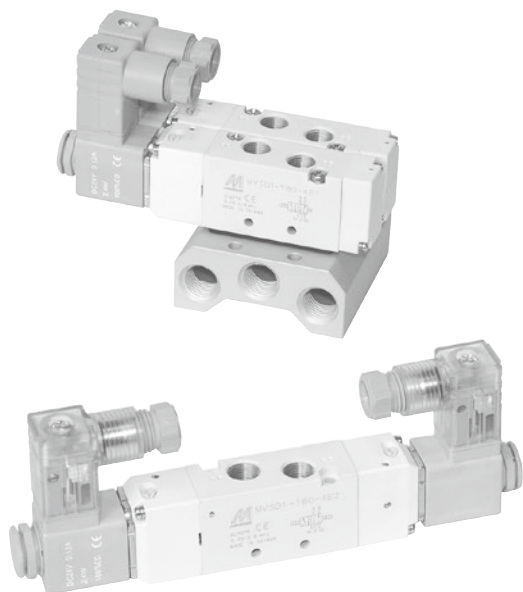
| No. of stations | P   | L   |
|-----------------|-----|-----|
| 2               | 47  | 57  |
| 3               | 66  | 76  |
| 4               | 85  | 95  |
| 5               | 104 | 114 |
| 6               | 123 | 133 |
| 7               | 142 | 152 |
| 8               | 161 | 171 |
| 9               | 180 | 190 |
| 10              | 199 | 209 |

# MVSD1-180 series

## SOLENOID VALVE



Mindman



### Specification

| Model                        | 4E1                           | 4E2   | 4E2 C.P.R         |
|------------------------------|-------------------------------|-------|-------------------|
| Bore No.                     | 6A                            |       |                   |
| Port size                    | Rc1/8                         |       |                   |
| No. of port                  | 5                             |       |                   |
| No. of position              | 2                             | 3     |                   |
| Medium                       | Air                           |       |                   |
| Operating perssure range     | 0.15~0.8 MPa                  |       | 0.2~0.7 MPa       |
| Operating pressue (LP)       | 0~0.8 MPa                     |       | 0~0.7 MPa         |
| External pilot pressure (LP) | 0.15~0.8 MPa                  |       | 0.2~0.7 MPa       |
| Proof pressure               | 1 MPa                         |       |                   |
| Effective orifice            | 12 mm <sup>2</sup>            |       | 9 mm <sup>2</sup> |
| Reponse time                 | 30 ms                         |       |                   |
| Ambient temperature          | -5~+50°C (No freezing)        |       |                   |
| Voltage                      | AC110V, 220V (50/60)Hz, DC24V |       |                   |
| Power consumption            | AC=3.7/3.1VA, DC=2.9W         |       |                   |
| Available voltage range      | ±10%                          |       |                   |
| Insulation class             | F class                       |       |                   |
| Weight                       | 124 g                         | 176 g | 190 g             |

### Order example of valve

**MVSD1 — 180 — 4E2C — AC110 — L — LP — G**

MODEL

BODY WIDTH

VOLTAGE

AC220V(50/60)Hz  
AC110V(50/60)Hz  
DC24V

LP: External pilot

PORT THREAD

Blank: Rc thread  
G: G thread  
NPT: NPT thread

4: 4 way (5 port)

E1: Single Solenoid  
E2: Double Solenoid

C: Closed center  
P: Pressure center  
R: Exhaust center  
(Only for 4E2 type)

ELECTRIC CONNECTION

Blank: DIN terminal  
L: DIN terminal with LED indicator  
W: Lead wire

### Order example of manifold

**MVSD1 — 180 — 5B3 — G**

MODEL

MANIFOLD

5B: 5 port (for body ported type)

MANIFOLD NUMBER

1, 2, 3...

PORT THREAD

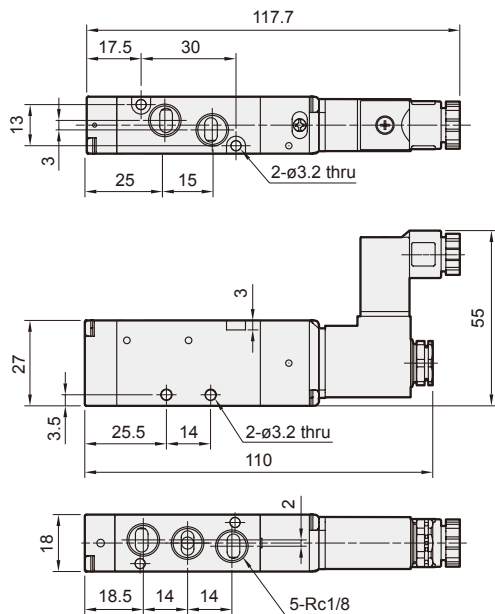
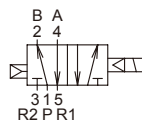
Blank: Rc thread  
G: G thread  
NPT: NPT thread

# MVSD1-180 Dimensions

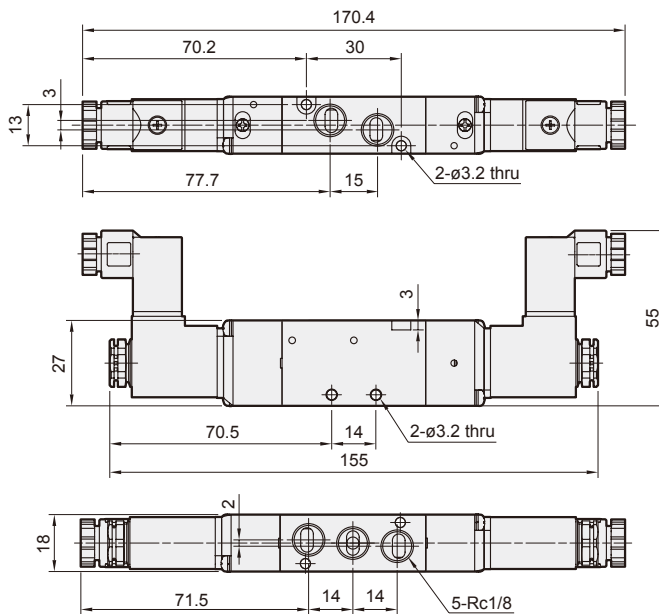
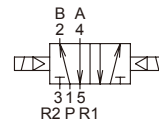
## SOLENOID VALVE



### MVSD1-180-4E1



### MVSD1-180-4E2

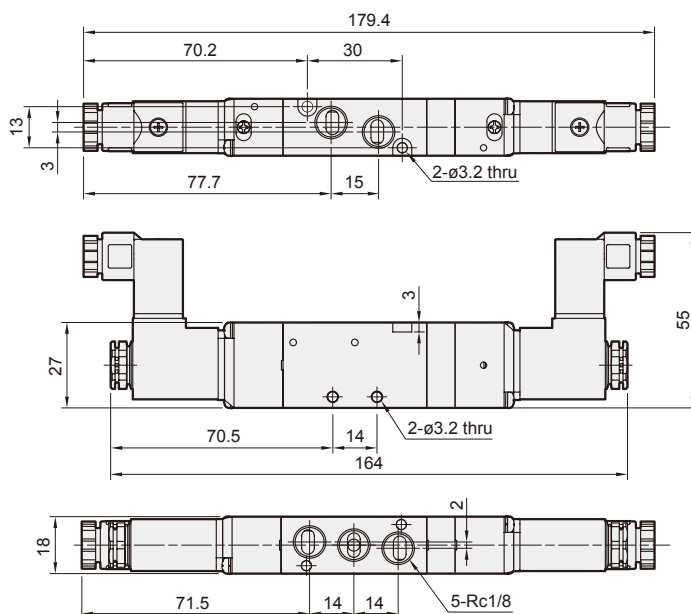
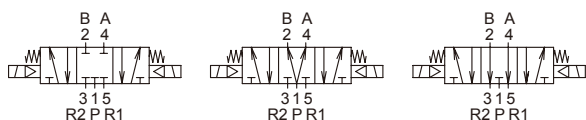


### MVSD1-180-4E2C.P.R

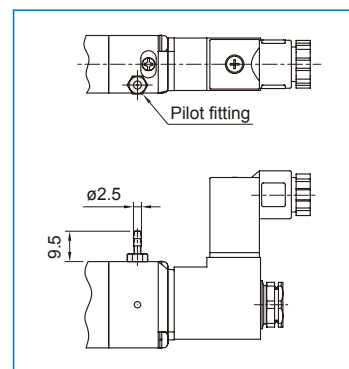
#### MVSD1-180-4E2C

#### MVSD1-180-4E2P

#### MVSD1-180-4E2R

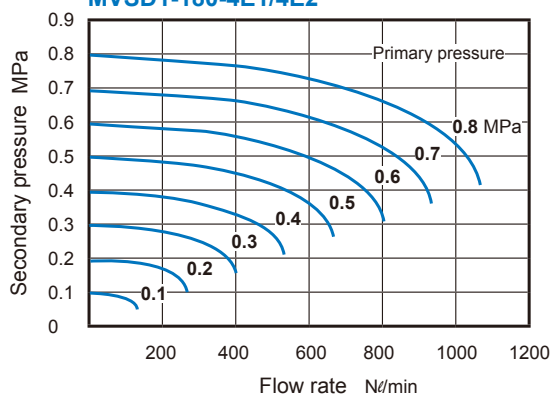


### LP



### Flow features

#### MVSD1-180-4E1/4E2



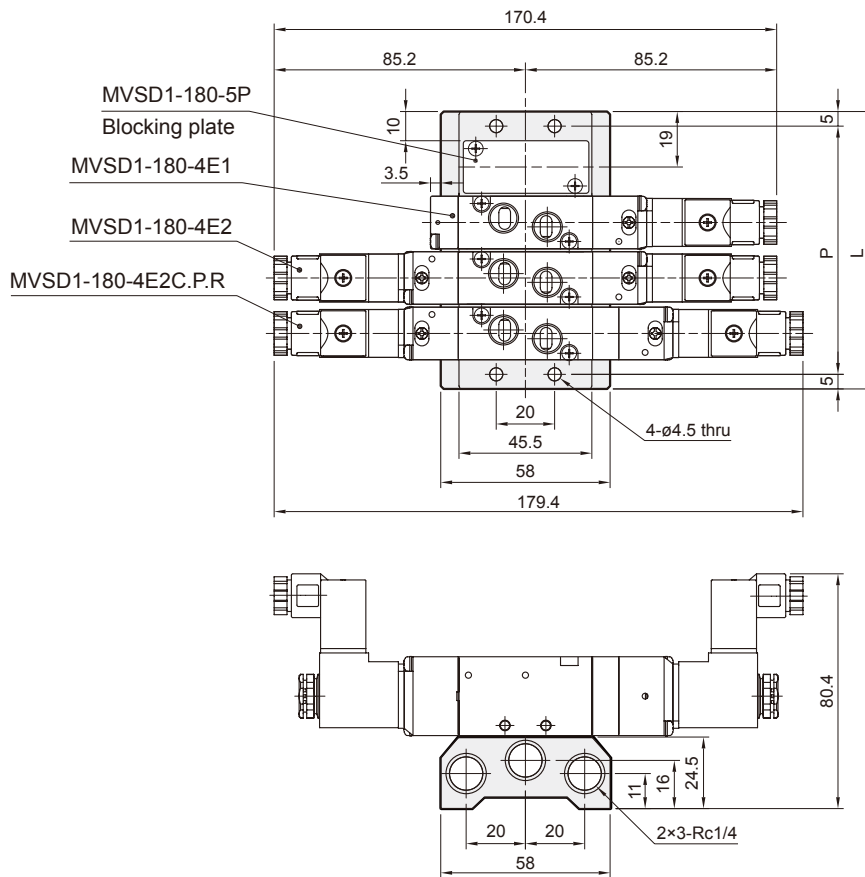
# MVSD1-180 Manifold

## SOLENOID VALVE



### MVSD1-180-5B\*

5 port (for body ported type)



| No. of stations | P   | L   |
|-----------------|-----|-----|
| 2               | 47  | 57  |
| 3               | 66  | 76  |
| 4               | 85  | 95  |
| 5               | 104 | 114 |
| 6               | 123 | 133 |
| 7               | 142 | 152 |
| 8               | 161 | 171 |
| 9               | 180 | 190 |
| 10              | 199 | 209 |