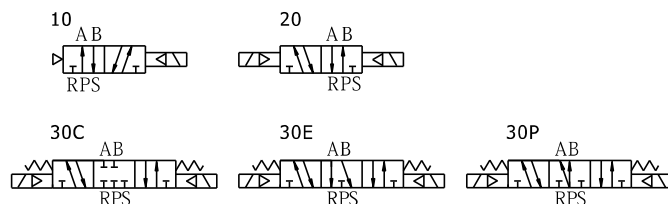
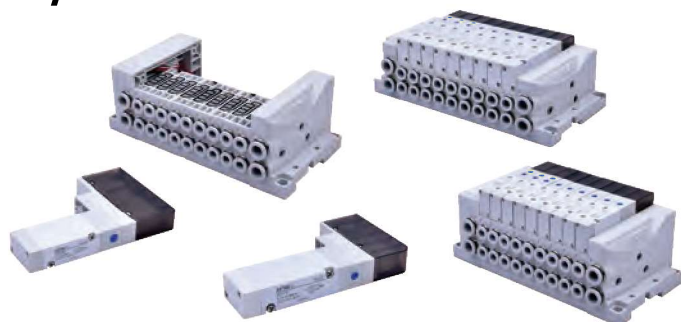


# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series



### Manifold ports Ordering Code (With Valves, 25PIN)

**6D1H 8F-N1/4 B S1 D2 C2 E2 P1**  

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩



Without communication module



Without communication module



With communication module

|                                                  |                                                                                                                                                                                                                                                  |                                                             |                                                                                   |  |                                                      |                                                 |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------|--|------------------------------------------------------|-------------------------------------------------|
| ① <b>Model</b>                                   | 6D05H: 6D0500 Series<br>integrated Solenoid valve                                                                                                                                                                                                |                                                             | 6D1H: 6D100 Series<br>integrated Solenoid valve                                   |  | 6D2H: 6D200 Series<br>integrated Solenoid valve      |                                                 |
| ② <b>Number of stations</b>                      | 3F: 3 stations    4F: 4 stations    .....    21F: 21stations                                                                                                                                                                                     |                                                             |                                                                                   |  |                                                      |                                                 |
| ③ <b>Port size(A/B Port)</b>                     | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                                                             |                                                             | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting |  | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting |                                                 |
| ④ <b>Standard voltage</b>                        | B:DC24V      F:DC12V                                                                                                                                                                                                                             |                                                             |                                                                                   |  |                                                      |                                                 |
| ⑤ <b>Single solenoid 5/2 way</b>                 | Total<br>number of<br>valves                                                                                                                                                                                                                     | Blank: No    S1: 1 piece    S2: 2 pieces.....S21: 21 pieces |                                                                                   |  |                                                      | Total<br>number of<br>valves<br>must be ≤<br>21 |
| ⑥ <b>Double solenoid 5/2 way</b>                 |                                                                                                                                                                                                                                                  | Blank: No    D1: 1 piece    D2: 2 pieces.....D12: 12 pieces |                                                                                   |  |                                                      |                                                 |
| ⑦ <b>Double solenoid 5/3 way closed center</b>   |                                                                                                                                                                                                                                                  | Blank: No    C1: 1 piece    C2: 2 pieces.....C12: 12 pieces |                                                                                   |  |                                                      |                                                 |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>  |                                                                                                                                                                                                                                                  | Blank: No    E1: 1 piece    E2: 2 pieces.....E12: 12 pieces |                                                                                   |  |                                                      |                                                 |
| ⑨ <b>Double solenoid 5/3 way pressure center</b> |                                                                                                                                                                                                                                                  | Blank: No    P1: 1 piece    P2: 2 pieces.....P12: 12 pieces |                                                                                   |  |                                                      |                                                 |
| ⑩ <b>Type of communication module</b>            | Blank: Without communication module<br>CPN1: Profinet+PNP                      CPN2: Profinet+NPN<br>CEN1: EtherNet/IP+PNP                CEN2: EtherNet/IP+NPN<br>CEA1: EtherCAT+PNP                    CEA2: EtherCAT+NPN<br>CLK1: IO-Link+PNP |                                                             |                                                                                   |  |                                                      |                                                 |

Ordering code instruction:

- 6D series comes with D-SUB25PIN.
- Fill in spec, number of stations, port size, voltage in order code accordingly.
- Valve installation sequence : start from D-SUB side.
- Valve installation sequence : (1) Double solenoid 5/3 way(C→E→P). (2) Double solenoid 5/2 way. (3)Single solenoid.
- For empty position, please install provisional block.
- 0500 series in/outlet ports (P/R) is Ø5/16,, 100 series in/outlet ports (P/R) is Ø3/8, 200 series in/outlet ports (P/R) is Ø1/2.
- Less than 8 stations(inclusive):come with 1 plug type silencer and 2 plugs; More than 8 stations: come with 2 plug type silencers and 1 plug.
- Total number of single solenoids+double solenoids+5/3way(C) + 5/3way(E) + 5/3way(P) must be ≤21
- For station 3~12, total number of ⑥+⑦+⑧+⑨ must be ≤12 (come with double solenoid manifold)  
 For station 13-15, total numbers of ⑥+⑦+⑧+⑨ must be ≤9 ;  
 station 16-18, total numbers of ⑥+⑦+⑧+⑨ must be ≤6.  
 station 19-21, total numbers of ⑥+⑦+⑧+⑨ must be ≤3.

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Manifold ports Ordering Code (With Valves,37PIN)

**6DW1H 18F-N1/4 B S5 D8C2 E1 P2** ☐

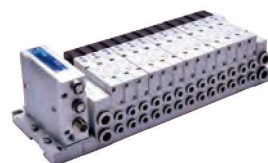
1 2 3 4 5 6 7 8 9 10



Without communication module



Without communication module



With communication module

|                                                  |                                                                                                                                                                                                                                               |                                                             |                                                                                   |  |                                                      |                                     |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------|--|------------------------------------------------------|-------------------------------------|
| ① <b>Model</b>                                   | 6DW05H: 6DW0500 Series integrated Solenoid valve                                                                                                                                                                                              |                                                             | 6DW1H: 6DW100 Series integrated Solenoid valve                                    |  | 6DW2H: 6DW200 Series integrated Solenoid valve       |                                     |
| ② <b>Number of stations</b>                      | 13F: 13 stations    14F: 14 stations    .....    33F: 33stations                                                                                                                                                                              |                                                             |                                                                                   |  |                                                      |                                     |
| ③ <b>Port size(A/B Port)</b>                     | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                                                          |                                                             | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting |  | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting |                                     |
| ④ <b>Standard voltage</b>                        | B:DC24V      F:DC12V                                                                                                                                                                                                                          |                                                             |                                                                                   |  |                                                      |                                     |
| ⑤ <b>Single solenoid 5/2 way</b>                 | Total number of valves                                                                                                                                                                                                                        | Blank: No    S1: 1 piece    S2: 2 pieces.....S33: 33 pieces |                                                                                   |  |                                                      | Total number of valves must be ≤ 33 |
| ⑥ <b>Double solenoid 5/2 way</b>                 |                                                                                                                                                                                                                                               | Blank: No    D1: 1 piece    D2: 2 pieces.....D18: 18 pieces |                                                                                   |  |                                                      |                                     |
| ⑦ <b>Double solenoid 5/3 way closed center</b>   |                                                                                                                                                                                                                                               | Blank: No    C1: 1 piece    C2: 2 pieces.....C18: 18 pieces |                                                                                   |  |                                                      |                                     |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>  |                                                                                                                                                                                                                                               | Blank: No    E1: 1 piece    E2: 2 pieces.....E18: 18 pieces |                                                                                   |  |                                                      |                                     |
| ⑨ <b>Double solenoid 5/3 way pressure center</b> |                                                                                                                                                                                                                                               | Blank: No    P1: 1 piece    P2: 2 pieces.....P18: 18 pieces |                                                                                   |  |                                                      |                                     |
| ⑩ <b>Type of communication module</b>            | Blank: Without communication module<br>CPN11: Profinet+PNP                  CPN22: Profinet+NPN<br>CEN11: EtherNet/IP+PNP              CEN22: EtherNet/IP+NPN<br>CEA11: EtherCAT+PNP                CEA22: EtherCAT+NPN<br>CLK11: IO-Link+PNP |                                                             |                                                                                   |  |                                                      |                                     |

Ordering code instruction:

- 6DW series comes with D-SUB37PIN.
- Fill in spec, number of stations, port size, voltage in order code accordingly.
- Valve installation sequence : start from D-SUB side.
- Valve installation sequence : (1) Double solenoid 5/3 way(C→E→P). (2) Double solenoid 5/2 way. (3)Single solenoid.
- For empty position, please install provisional block.
- 0500 series in/outlet ports (P/R) is Ø5/16,, 100 series in/outlet ports (P/R) is Ø3/8, 200 series in/outlet ports (P/R) is Ø1/2.
- 6DW series comes with 2 plug type silencers and 1 plug.
- Total number of single solenoids+double solenoids+5/3way(C) + 5/3way(E) + 5/3way(P) must be ≤33
- For station 13~18, total number of ⑥+⑦+⑧+⑨ must be ≤18 (come with double solenoid manifold)  
 For station 19-21, total numbers of ⑥+⑦+⑧+⑨ must be ≤15.  
 Station 22-24 of, total numbers of ⑥+⑦+⑧+⑨ must be ≤12.  
 Station 25-27, total numbers of ⑥+⑦+⑧+⑨ must be ≤9.  
 Station 28-30, total numbers of ⑥+⑦+⑧+⑨ must be ≤6.  
 Station 31-33, total numbers of ⑥+⑦+⑧+⑨ must be ≤3.

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Manifold ports Ordering Code (Without Valves, 25PIN)



**6D1H 8F N1/4**

1

2

3



|                              |                                                      |                                                                                   |                                                      |
|------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------|
| ① <b>Model</b>               | 6D05H: 6D0500 Series manifold                        | 6D1H: 6D100 Series manifold                                                       | 6D2H: 6D200 Series manifold                          |
| ② <b>Number of stations</b>  | 3F: 3 stations 4F: 4 stations ..... 21F: 21stations  |                                                                                   |                                                      |
| ③ <b>Port size(A/B Port)</b> | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting |

- Note:
- 6D series comes with D-SUB25PIN.
  - For station 3~12, it comes with double solenoid type manifold.  
On 13 to 15 station valve banks, only the first 9 positions can have double solenoid valves(2 or 3 positions)  
On 16 to 18 station valve banks, only the first 6 positions can have double solenoid valves(2 or 3 positions)  
On 19 to 21 station valve banks, only the first 3 positions can have double solenoid valves(2 or 3 positions)
  - Valve installation sequence: start from D-SUB side.
  - 0500 series in/outlet ports (P/R) is Ø5/16, 100 series in/outlet ports (P/R) is Ø3/8, 200 series in/outlet ports (P/R) is Ø1/2.
  - Less than 8 stations(inclusive): come with 1 plug type silencer and 2 plugs; More than 8 stations: come with 2 plug type silencers and 1 plug.

### Manifold ports Ordering Code (Without Valves, 37PIN)



**6DW1H 8F N1/4**

1

2

3



|                              |                                                         |                                                                                   |                                                      |
|------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------|
| ① <b>Model</b>               | 6DW05H: 6DW0500 Series manifold                         | 6DW1H: 6DW100 Series manifold                                                     | 6DW2H: 6DW200 Series manifold                        |
| ② <b>Number of stations</b>  | 13F: 13 stations 14F: 14 stations ..... 33F: 33stations |                                                                                   |                                                      |
| ③ <b>Port size(A/B Port)</b> | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting    | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting |

- Note:
- 6DW series comes with D-SUB37PIN.
  - For station 13~18, it comes with double solenoid type manifold.  
On 19 to 21 station valve banks, only the first 15 positions can have double solenoid valves(2 or 3 positions).  
On 22 to 24 station valve banks, only the first 12 positions can have double solenoid valves(2 or 3 positions).  
On 25 to 27 station valve banks, only the first 9 positions can have double solenoid valves(2 or 3 positions).  
On 28 to 30 station valve banks, only the first 6 positions can have double solenoid valves(2 or 3 positions).  
On 31 to 33 station valve banks, only the first 3 positions can have double solenoid valves(2 or 3 positions).
  - Valve installation sequence: start from D-SUB side.
  - 0500 series in/outlet ports (P/R) is Ø5/16, 100 series in/outlet ports (P/R) is Ø3/8, 200 series in/outlet ports (P/R) is Ø1/2.
  - 6DW series comes with 2 plug type silencers and 1 plug.

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Solenoid Valve Ordering Code



**6D 1 20 B**

1

2

3

4



|                           |                                              |                                               |                                             |
|---------------------------|----------------------------------------------|-----------------------------------------------|---------------------------------------------|
| ① <b>Model</b>            | 6D: 5-port, 2/3-position solenoid valve      |                                               |                                             |
| ② <b>Code</b>             | 05: 0500 Series                              | 1: 100 Series                                 | 2: 200 Series                               |
| ③ <b>Valve type</b>       | 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) |                                             |
| ④ <b>Standard Voltage</b> | B: DC24V F: DC12V                            |                                               |                                             |

### Provisional Block Ordering Code



**P - 6D100M - R2**

1

2

3



|                                 |                                 |                     |                     |
|---------------------------------|---------------------------------|---------------------|---------------------|
| ① <b>Accessories</b>            | P : Accessories                 |                     |                     |
| ② <b>Model</b>                  | 6D0500M : 0500 Series           | 6D100M : 100 Series | 6D200M : 200 Series |
| ③ <b>Provisional block code</b> | R2: 6D series Provisional block |                     |                     |

Note:Orders come with screw bolts.

### DIN Rail Ordering Code

**F - DINX140**

1

2



|                             |                  |             |                                |
|-----------------------------|------------------|-------------|--------------------------------|
| ① <b>Accessories</b>        | F-DIN : DIN Rail |             |                                |
| ② <b>Length of DIN rail</b> | 140 : 140mm      | 175 : 175mm | 210 : 210mm .....1000 : 1000mm |

Note: DIN rail add length is 35mm each step.

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Specification

| Model                     |            | 6D0500/6DW0500                             | 6D100/6DW100                    | 6D200/6DW200             |
|---------------------------|------------|--------------------------------------------|---------------------------------|--------------------------|
| Fluid                     |            | Air(to be filtered by 40μm filter element) |                                 |                          |
| Acting                    |            | Pilot                                      |                                 |                          |
| Operating pressure        | 5/3 way    | 0.2~0.8MPa(29~114psi)                      |                                 |                          |
|                           | Others     | 0.15~0.8MPa(21~114psi)                     |                                 |                          |
| Proof pressure            |            | 1.2MPa(175psi)                             |                                 |                          |
| Temperature               |            | -20~70°C                                   |                                 |                          |
| Type of inlet and exhaust |            | Centralized inlet and exhaust              |                                 |                          |
| Numbers of station        | 6D         | 3-21 stations                              |                                 |                          |
|                           | 6DW        | 13-33 stations                             |                                 |                          |
| Port size                 | A, B ports | Φ5/32, Φ1/4 tube fitting                   | Φ5/32, Φ1/4, Φ5/16 tube fitting | Φ5/16, Φ3/8 tube fitting |
|                           | P, R ports | Φ5/16 tube fitting                         | Φ3/8 tube fitting               | Φ1/2 tube fitting        |
| Electrical entry          |            | Terminal , 25pinD-SUB/37pinD-SUB           |                                 |                          |

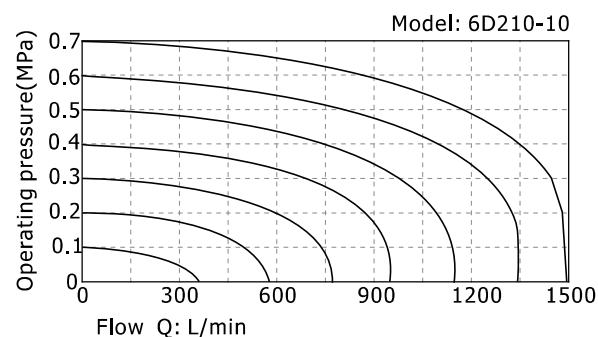
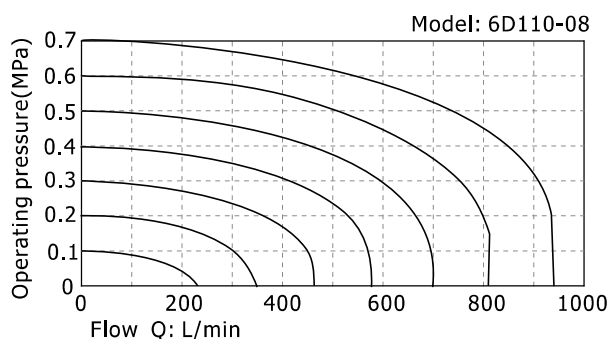
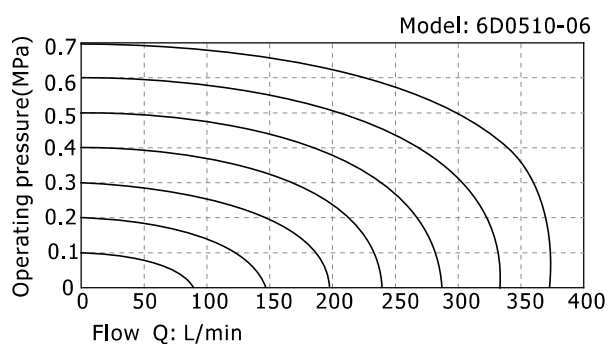
### Coil specification

| Item                       | Specification      |       |
|----------------------------|--------------------|-------|
| Standard voltage           | DC24V              | DC12V |
| Scope of voltage           | DC : ±10%          |       |
| Power of consumption       | DC : 0.7W          |       |
| Protection                 | Dustproof          |       |
| Temperature classification | F Class            |       |
| Electrical entry           | Terminal           |       |
| Activating time            | 0.05 sec and below |       |

### Product feature

1. Centralized inlets, outlets and signal input(25pin D-SUB or 37pin D-SUB) make it highly simplifies installation and reduces risk during mounting.
2. Flexible combination for various applications.
3. Convenient installation, can be fixed on panel or DIN rail without other accessory.
4. 2 position and 3 position valves can be installed on the same manifold without further accessories.
5. Affiliated manual devices are equipped to facilitate installation and debugging.
6. Low starting voltage and long service life.

### Flow chart



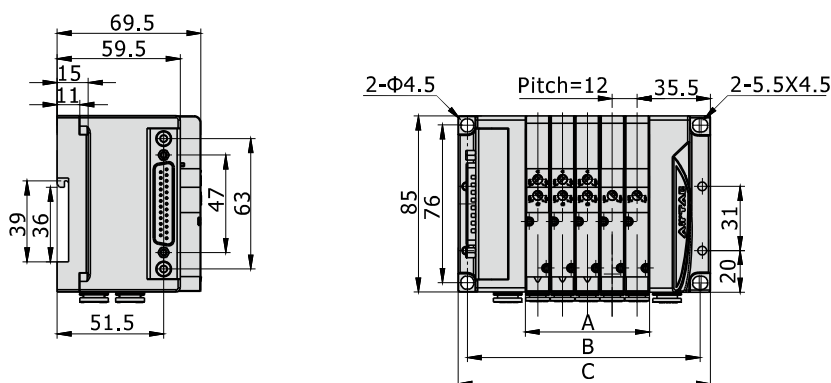
Flow rate data obtained from the AirTAC R&D Lab.

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Dimensions

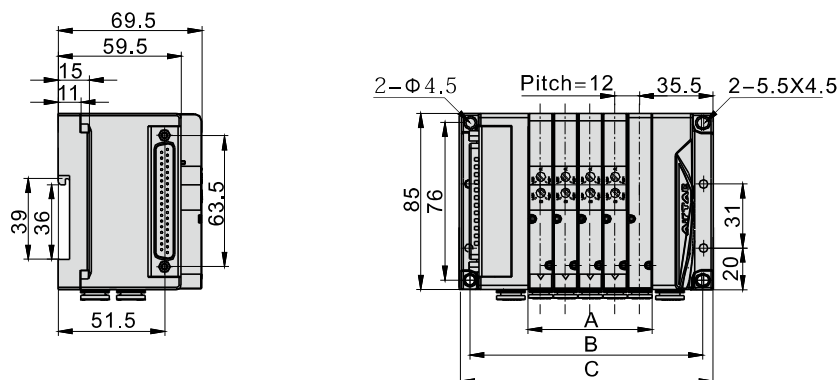
#### 6D0500



Unit:mm

| Item\Stations | 3F   | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 36   | 48    | 60    | 72    | 84    | 96    | 108   | 120   | 132   | 144   | 156   | 168   | 180   | 192   | 204   | 216   | 228   | 240   | 252   |
| B             | 88.5 | 100.5 | 112.5 | 124.5 | 136.5 | 148.5 | 160.5 | 172.5 | 184.5 | 196.5 | 208.5 | 220.5 | 232.5 | 244.5 | 256.5 | 268.5 | 280.5 | 292.5 | 304.5 |
| C             | 98   | 110   | 122   | 134   | 146   | 158   | 170   | 182   | 194   | 206   | 218   | 230   | 242   | 254   | 266   | 278   | 290   | 302   | 314   |

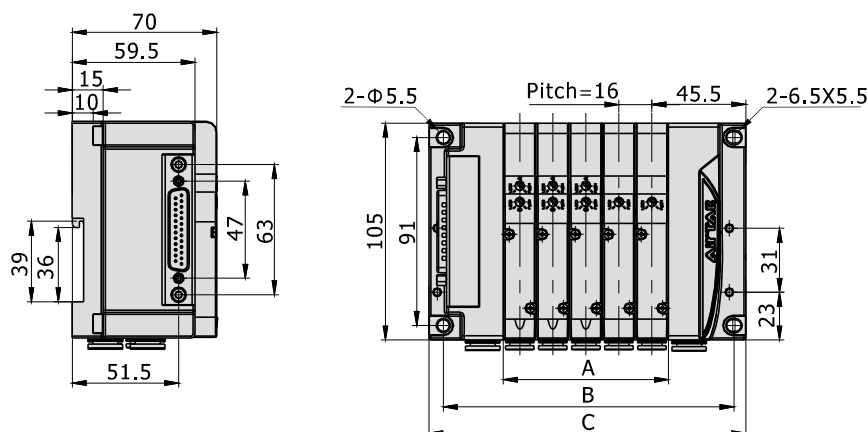
#### 6DW0500



Unit:mm

| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 156   | 168   | 180   | 192   | 204   | 216   | 228   | 240   | 252   | 264   | 276   | 288   | 300   | 312   | 324   | 336   | 348   | 360   | 272   | 384   | 396   |
| B             | 208.5 | 220.5 | 232.5 | 244.5 | 256.5 | 268.5 | 280.5 | 292.5 | 304.5 | 316.5 | 328.5 | 340.5 | 352.5 | 364.5 | 376.5 | 388.5 | 400.5 | 412.5 | 424.5 | 436.5 | 448.5 |
| C             | 218   | 230   | 242   | 254   | 266   | 278   | 290   | 302   | 314   | 326   | 338   | 350   | 362   | 374   | 386   | 398   | 410   | 422   | 434   | 446   | 458   |

#### 6D100



Unit:mm

| Item\Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 48    | 64    | 80    | 96    | 112   | 128   | 144   | 160   | 176   | 192   | 208   | 224   | 240   | 256   | 272   | 288   | 304   | 320   | 336   |
| B             | 108.5 | 124.5 | 140.5 | 156.5 | 172.5 | 188.5 | 204.5 | 220.5 | 236.5 | 252.5 | 268.5 | 284.5 | 300.5 | 316.5 | 332.5 | 348.5 | 364.5 | 380.5 | 396.5 |
| C             | 121.5 | 137.5 | 153.5 | 169.5 | 185.5 | 201.5 | 217.5 | 233.5 | 249.5 | 265.5 | 281.5 | 297.5 | 313.5 | 329.5 | 345.5 | 361.5 | 377.5 | 393.5 | 409.5 |

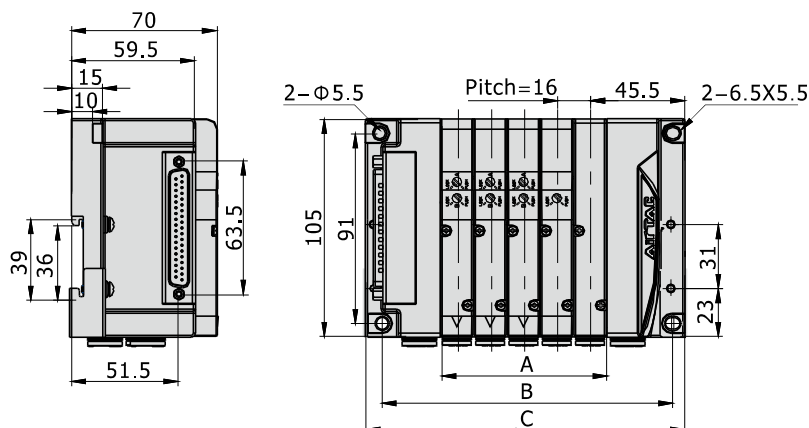


# Integrated solenoid valve (5/2, 5/3 way)

**AIRTAC**

## 6D/6DW Series

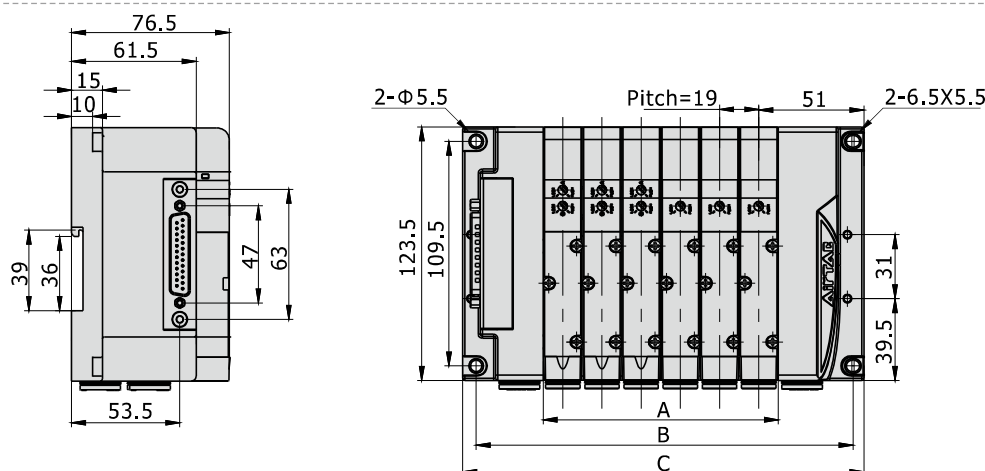
### 6DW100



Unit:mm

| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 208   | 224   | 240   | 256   | 272   | 288   | 304   | 320   | 336   | 352   | 368   | 384   | 400   | 416   | 432   | 448   | 464   | 480   | 496   | 512   | 528   |
| B             | 268.5 | 284.5 | 300.5 | 316.5 | 332.5 | 348.5 | 364.5 | 380.5 | 396.5 | 412.5 | 428.5 | 444.5 | 460.5 | 476.5 | 492.5 | 508.5 | 524.5 | 540.5 | 556.5 | 572.5 | 588.5 |
| C             | 281.5 | 297.5 | 313.5 | 329.5 | 345.5 | 361.5 | 377.5 | 393.5 | 409.5 | 425.5 | 441.5 | 457.5 | 473.5 | 489.5 | 505.5 | 521.5 | 537.5 | 553.5 | 569.5 | 585.5 | 601.5 |

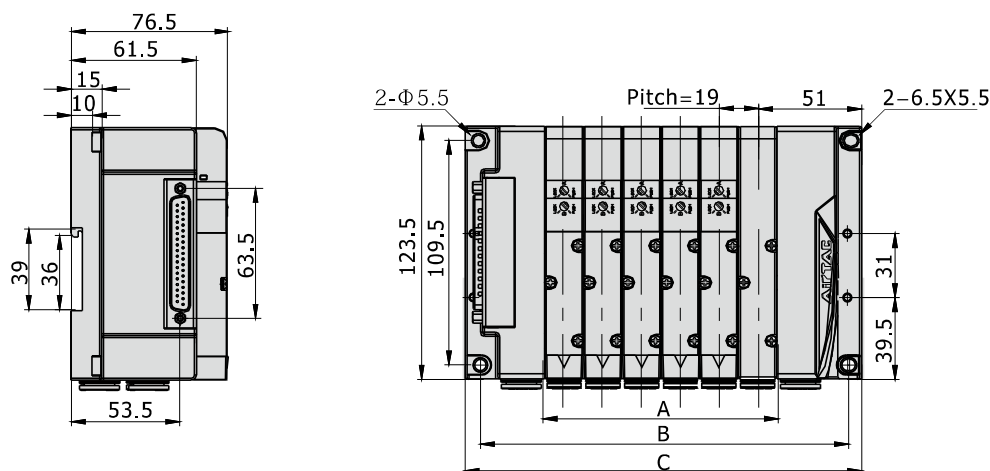
### 6D200



Unit:mm

| Item\Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 57    | 76    | 95    | 114   | 133   | 152   | 171   | 190   | 209   | 228   | 247   | 266   | 285   | 304   | 323   | 342   | 361   | 380   | 399   |
| B             | 125.5 | 144.5 | 163.5 | 182.5 | 201.5 | 220.5 | 239.5 | 258.5 | 277.5 | 296.5 | 315.5 | 334.5 | 353.5 | 372.5 | 391.5 | 410.5 | 429.5 | 448.5 | 467.5 |
| C             | 137.5 | 156.5 | 175.5 | 194.5 | 213.5 | 232.5 | 251.5 | 270.5 | 289.5 | 308.5 | 327.5 | 346.5 | 365.5 | 384.5 | 403.5 | 422.5 | 441.5 | 460.5 | 479.5 |

### 6DW200



Unit:mm

| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 247   | 266   | 285   | 304   | 323   | 342   | 361   | 380   | 399   | 418   | 437   | 456   | 475   | 494   | 513   | 532   | 551   | 570   | 589   | 608   | 627   |
| B             | 315.5 | 334.5 | 353.5 | 372.5 | 391.5 | 410.5 | 429.5 | 448.5 | 467.5 | 486.5 | 505.5 | 524.5 | 543.5 | 562.5 | 581.5 | 600.5 | 619.5 | 638.5 | 657.5 | 676.5 | 695.5 |
| C             | 327.5 | 346.5 | 365.5 | 384.5 | 403.5 | 422.5 | 441.5 | 460.5 | 479.5 | 498.5 | 517.5 | 536.5 | 555.5 | 574.5 | 593.5 | 612.5 | 631.5 | 650.5 | 669.5 | 688.5 | 707.5 |

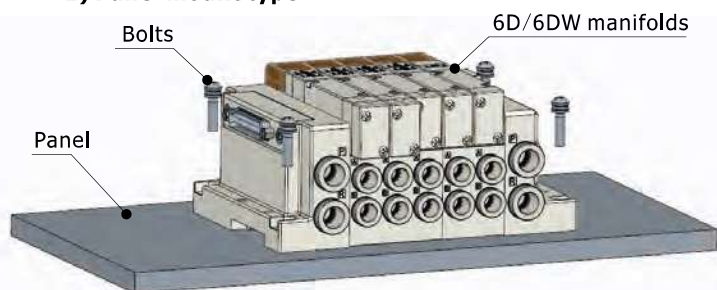
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Installation and application

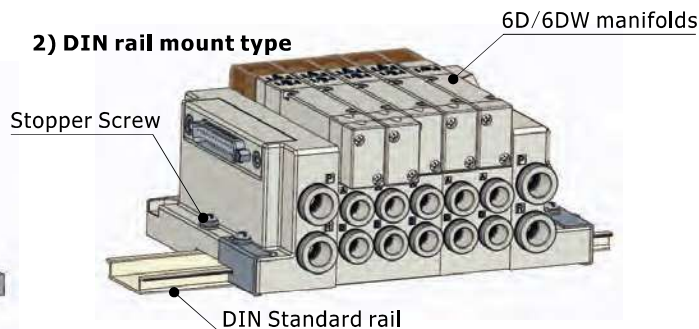
1. Two types of installation are available, choose appropriate type based on working environment.

#### 1) Panel mount type



Four counterbore holes for screw bolts, suitable for panel installation.

#### 2) DIN rail mount type



Compatible with standard DIN rail.

6D manifolds can be fixed at any position of rail by stop screw.

2. P\R ports connection: Please select the appropriate tube diameter according to the following specification table.

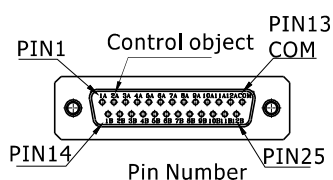
| Series         | Port (P) | Port (R) |
|----------------|----------|----------|
| 6D0500/6DW0500 | Φ5/16    | Φ5/16    |
| 6D100/6DW100   | Φ3/8     | Φ3/8     |
| 6D200/6DW200   | Φ1/2     | Φ1/2     |

3. A\B ports connection: Please select the appropriate tube diameter according to the following specification table.

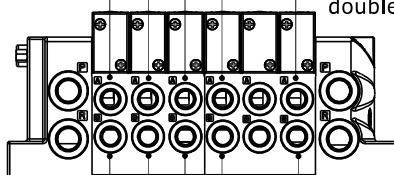
| Series\Ports(A\B ports) | Φ5/32 | Φ1/4 | Φ5/16 | Φ3/8 |
|-------------------------|-------|------|-------|------|
| 6D0500/6DW0500          | •     | •    |       |      |
| 6D100/6DW100            | •     | •    | •     |      |
| 6D200/6DW200            |       |      | •     | •    |

4. PIN assignment of 6D series:

#### Explanation of 3-12 stations connection pin.



Definition of stations : 1A 2A 3A 4A.....12A Can be used for double solenoid valve



Definition of stations : 1B 2B 3B 4B.....12B

| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 14                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 15                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 16                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 17                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 18                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 19                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 20                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 21                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 22                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 23                                                          | (+)      | (-)  | 10A            |
| 11      | (+)      | (-)  | 11B            | 24                                                          | (+)      | (-)  | 11A            |
| 12      | (+)      | (-)  | 12B            | 25                                                          | (+)      | (-)  | 12A            |
| 13      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

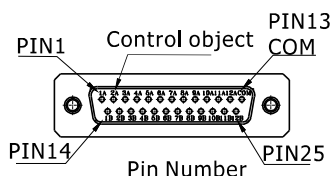
Note: Gauge number of cable connecting to D-Sub pin No.13(COM) must be ≤22AWG



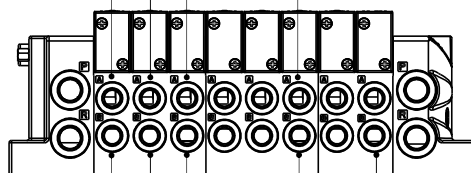
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Explanation of 13-15 stations connection pin.



Definition of stations : 1A 2A 3A ..... 9A double solenoid valve

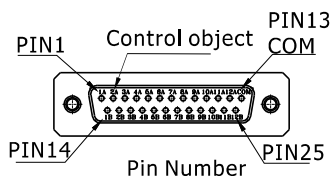


Definition of stations : 1B 2B 3B ..... 9B.....15B

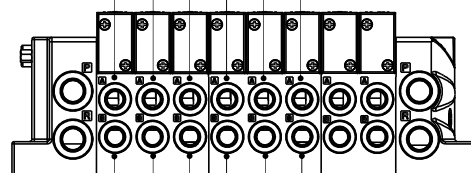
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 14                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 15                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 16                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 17                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 18                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 19                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 20                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 21                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 22                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 23                                                          | (+)      | (-)  | 11B            |
| 11      | (+)      | (-)  | 12B            | 24                                                          | (+)      | (-)  | 13B            |
| 12      | (+)      | (-)  | 14B            | 25                                                          | (+)      | (-)  | 15B            |
| 13      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.13(COM) must be ≤22AWG

### Explanation of 16-18 stations connection pin.



Definition of stations : 1A 2A 3A 4A 5A 6A double solenoid valve



Definition of stations : 1B 2B 3B 4B 5B 6B.....18B

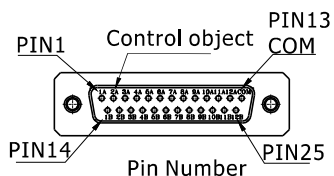
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 14                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 15                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 16                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 17                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 18                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 19                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 20                                                          | (+)      | (-)  | 8B             |
| 8       | (+)      | (-)  | 9B             | 21                                                          | (+)      | (-)  | 10B            |
| 9       | (+)      | (-)  | 11B            | 22                                                          | (+)      | (-)  | 12B            |
| 10      | (+)      | (-)  | 13B            | 23                                                          | (+)      | (-)  | 14B            |
| 11      | (+)      | (-)  | 15B            | 24                                                          | (+)      | (-)  | 16B            |
| 12      | (+)      | (-)  | 17B            | 25                                                          | (+)      | (-)  | 18B            |
| 13      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.13(COM) must be ≤22AWG

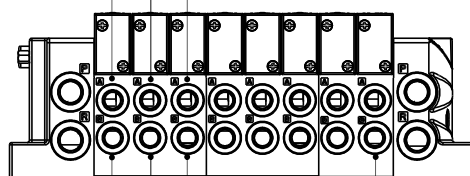
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Explanation of 19-21 stations connection pin.



Definition of stations : 1A 2A 3A ..... 21B  
Can be used for double solenoid valve



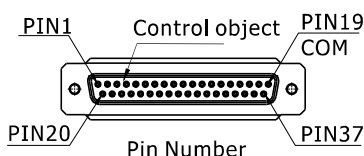
Definition of stations : 1B 2B 3B ..... 21B

| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 14                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 15                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 16                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 17                                                          | (+)      | (-)  | 5B             |
| 5       | (+)      | (-)  | 6B             | 18                                                          | (+)      | (-)  | 7B             |
| 6       | (+)      | (-)  | 8B             | 19                                                          | (+)      | (-)  | 9B             |
| 7       | (+)      | (-)  | 10B            | 20                                                          | (+)      | (-)  | 11B            |
| 8       | (+)      | (-)  | 12B            | 21                                                          | (+)      | (-)  | 13B            |
| 9       | (+)      | (-)  | 14B            | 22                                                          | (+)      | (-)  | 15B            |
| 10      | (+)      | (-)  | 16B            | 23                                                          | (+)      | (-)  | 17B            |
| 11      | (+)      | (-)  | 18B            | 24                                                          | (+)      | (-)  | 19B            |
| 12      | (+)      | (-)  | 20B            | 25                                                          | (+)      | (-)  | 21B            |
| 13      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

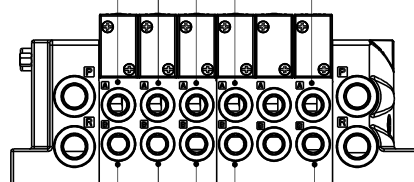
Note: Gauge number of cable connecting to D-Sub pin No.13(COM) must be ≤22AWG

### 5. PIN assignment of 6DW series:

#### Explanation of 13-18 stations connection pin.



Definition of stations : 1A 2A 3A 4A .....18A  
Can be used for double solenoid valve



Definition of stations : 1B 2B 3B 4B .....18B

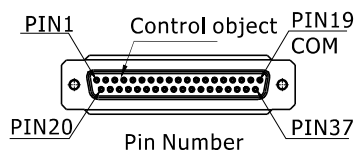
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 24                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 25                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 26                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 27                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 28                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 29                                                          | (+)      | (-)  | 10A            |
| 11      | (+)      | (-)  | 11B            | 30                                                          | (+)      | (-)  | 11A            |
| 12      | (+)      | (-)  | 12B            | 31                                                          | (+)      | (-)  | 12A            |
| 13      | (+)      | (-)  | 13B            | 32                                                          | (+)      | (-)  | 13A            |
| 14      | (+)      | (-)  | 14B            | 33                                                          | (+)      | (-)  | 14A            |
| 15      | (+)      | (-)  | 15B            | 34                                                          | (+)      | (-)  | 15A            |
| 16      | (+)      | (-)  | 16B            | 35                                                          | (+)      | (-)  | 16A            |
| 17      | (+)      | (-)  | 17B            | 36                                                          | (+)      | (-)  | 17A            |
| 18      | (+)      | (-)  | 18B            | 37                                                          | (+)      | (-)  | 18A            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

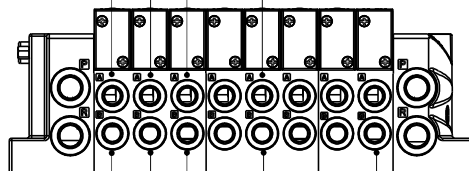
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Explanation of 19-21 stations connection pin.



Definition of stations : 1A 2A 3A .....15A Can be used for double solenoid valve

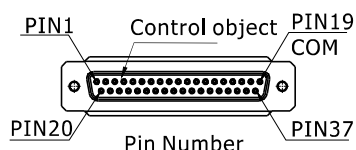


Definition of stations : 1B 2B 3B .....15B ..... 21B

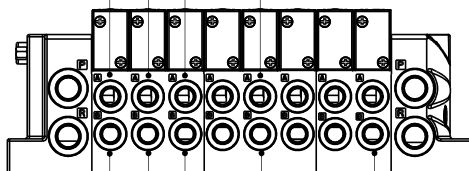
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 24                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 25                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 26                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 27                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 28                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 29                                                          | (+)      | (-)  | 10A            |
| 11      | (+)      | (-)  | 11B            | 30                                                          | (+)      | (-)  | 11A            |
| 12      | (+)      | (-)  | 12B            | 31                                                          | (+)      | (-)  | 12A            |
| 13      | (+)      | (-)  | 13B            | 32                                                          | (+)      | (-)  | 13A            |
| 14      | (+)      | (-)  | 14B            | 33                                                          | (+)      | (-)  | 14A            |
| 15      | (+)      | (-)  | 15B            | 34                                                          | (+)      | (-)  | 15A            |
| 16      | (+)      | (-)  | 16B            | 35                                                          | (+)      | (-)  | 17B            |
| 17      | (+)      | (-)  | 18B            | 36                                                          | (+)      | (-)  | 19B            |
| 18      | (+)      | (-)  | 20B            | 37                                                          | (+)      | (-)  | 21B            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

### Explanation of 22-24 stations connection pin.



Definition of stations : 1A 2A 3A .....12A Can be used for double solenoid valve



Definition of stations : 1B 2B 3B .....12B ..... 24B

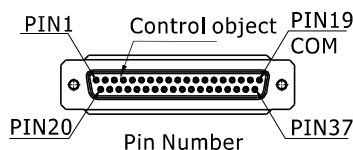
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 24                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 25                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 26                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 27                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 28                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 29                                                          | (+)      | (-)  | 10A            |
| 11      | (+)      | (-)  | 11B            | 30                                                          | (+)      | (-)  | 11A            |
| 12      | (+)      | (-)  | 12B            | 31                                                          | (+)      | (-)  | 12A            |
| 13      | (+)      | (-)  | 13B            | 32                                                          | (+)      | (-)  | 14B            |
| 14      | (+)      | (-)  | 15B            | 33                                                          | (+)      | (-)  | 16B            |
| 15      | (+)      | (-)  | 17B            | 34                                                          | (+)      | (-)  | 18B            |
| 16      | (+)      | (-)  | 19B            | 35                                                          | (+)      | (-)  | 20B            |
| 17      | (+)      | (-)  | 21B            | 36                                                          | (+)      | (-)  | 22B            |
| 18      | (+)      | (-)  | 23B            | 37                                                          | (+)      | (-)  | 24B            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

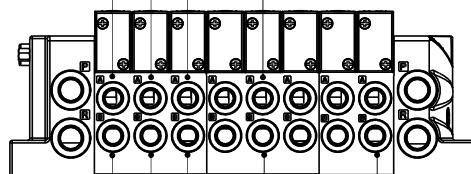
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

### Explanation of 25-27 stations connection pin.



Definition of stations : 1A 2A 3A .....9A Can be used for double solenoid valve

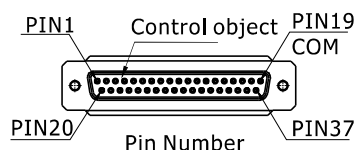


Definition of stations : 1B 2B 3B .....9B ..... 27B

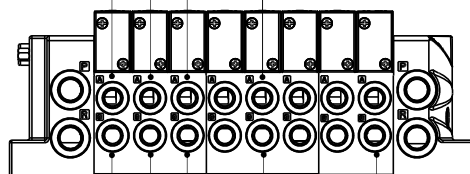
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 24                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 25                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 26                                                          | (+)      | (-)  | 7A             |
| 8       | (+)      | (-)  | 8B             | 27                                                          | (+)      | (-)  | 8A             |
| 9       | (+)      | (-)  | 9B             | 28                                                          | (+)      | (-)  | 9A             |
| 10      | (+)      | (-)  | 10B            | 29                                                          | (+)      | (-)  | 11B            |
| 11      | (+)      | (-)  | 12B            | 30                                                          | (+)      | (-)  | 13B            |
| 12      | (+)      | (-)  | 14B            | 31                                                          | (+)      | (-)  | 15B            |
| 13      | (+)      | (-)  | 16B            | 32                                                          | (+)      | (-)  | 17B            |
| 14      | (+)      | (-)  | 18B            | 33                                                          | (+)      | (-)  | 19B            |
| 15      | (+)      | (-)  | 20B            | 34                                                          | (+)      | (-)  | 21B            |
| 16      | (+)      | (-)  | 22B            | 35                                                          | (+)      | (-)  | 23B            |
| 17      | (+)      | (-)  | 24B            | 36                                                          | (+)      | (-)  | 25B            |
| 18      | (+)      | (-)  | 26B            | 37                                                          | (+)      | (-)  | 27B            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

### Explanation of 28-30 stations connection pin.



Definition of stations : 1A 2A 3A .....6A Can be used for double solenoid valve



Definition of stations : 1B 2B 3B .....6B ..... 30B

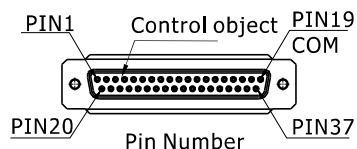
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 4A             |
| 5       | (+)      | (-)  | 5B             | 24                                                          | (+)      | (-)  | 5A             |
| 6       | (+)      | (-)  | 6B             | 25                                                          | (+)      | (-)  | 6A             |
| 7       | (+)      | (-)  | 7B             | 26                                                          | (+)      | (-)  | 8B             |
| 8       | (+)      | (-)  | 9B             | 27                                                          | (+)      | (-)  | 10B            |
| 9       | (+)      | (-)  | 11B            | 28                                                          | (+)      | (-)  | 12B            |
| 10      | (+)      | (-)  | 13B            | 29                                                          | (+)      | (-)  | 14B            |
| 11      | (+)      | (-)  | 15B            | 30                                                          | (+)      | (-)  | 16B            |
| 12      | (+)      | (-)  | 17B            | 31                                                          | (+)      | (-)  | 18B            |
| 13      | (+)      | (-)  | 19B            | 32                                                          | (+)      | (-)  | 20B            |
| 14      | (+)      | (-)  | 21B            | 33                                                          | (+)      | (-)  | 22B            |
| 15      | (+)      | (-)  | 23B            | 34                                                          | (+)      | (-)  | 24B            |
| 16      | (+)      | (-)  | 25B            | 35                                                          | (+)      | (-)  | 26B            |
| 17      | (+)      | (-)  | 27B            | 36                                                          | (+)      | (-)  | 28B            |
| 18      | (+)      | (-)  | 29B            | 37                                                          | (+)      | (-)  | 30B            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

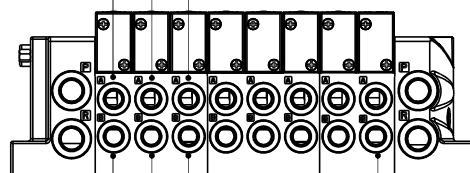
# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series

Explanation of 31-33 stations connection pin.



Definition of stations : 1A 2A 3A  
Can be used for double solenoid valve



Definition of stations : 1B 2B 3B ..... 33B

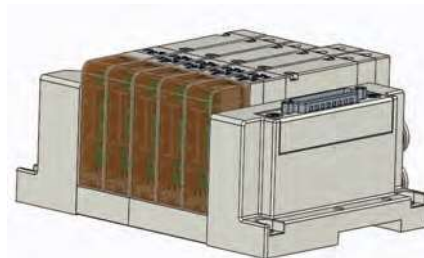
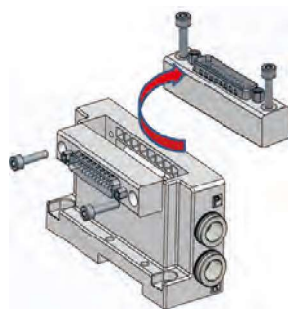
| Pin NO. | Polarity |      | Control object | Pin NO.                                                     | Polarity |      | Control object |
|---------|----------|------|----------------|-------------------------------------------------------------|----------|------|----------------|
|         | -COM     | +COM |                |                                                             | -COM     | +COM |                |
| 1       | (+)      | (-)  | 1B             | 20                                                          | (+)      | (-)  | 1A             |
| 2       | (+)      | (-)  | 2B             | 21                                                          | (+)      | (-)  | 2A             |
| 3       | (+)      | (-)  | 3B             | 22                                                          | (+)      | (-)  | 3A             |
| 4       | (+)      | (-)  | 4B             | 23                                                          | (+)      | (-)  | 5B             |
| 5       | (+)      | (-)  | 6B             | 24                                                          | (+)      | (-)  | 7B             |
| 6       | (+)      | (-)  | 8B             | 25                                                          | (+)      | (-)  | 9B             |
| 7       | (+)      | (-)  | 10B            | 26                                                          | (+)      | (-)  | 11B            |
| 8       | (+)      | (-)  | 12B            | 27                                                          | (+)      | (-)  | 13B            |
| 9       | (+)      | (-)  | 14B            | 28                                                          | (+)      | (-)  | 15B            |
| 10      | (+)      | (-)  | 16B            | 29                                                          | (+)      | (-)  | 17B            |
| 11      | (+)      | (-)  | 18B            | 30                                                          | (+)      | (-)  | 19B            |
| 12      | (+)      | (-)  | 20B            | 31                                                          | (+)      | (-)  | 21B            |
| 13      | (+)      | (-)  | 22B            | 32                                                          | (+)      | (-)  | 23B            |
| 14      | (+)      | (-)  | 24B            | 33                                                          | (+)      | (-)  | 25B            |
| 15      | (+)      | (-)  | 26B            | 34                                                          | (+)      | (-)  | 27B            |
| 16      | (+)      | (-)  | 28B            | 35                                                          | (+)      | (-)  | 29B            |
| 17      | (+)      | (-)  | 30B            | 36                                                          | (+)      | (-)  | 31B            |
| 18      | (+)      | (-)  | 32B            | 37                                                          | (+)      | (-)  | 33B            |
| 19      | (-)      | (+)  | COM            | When mounted with single solenoid valves, A signal is empty |          |      |                |

Note: Gauge number of cable connecting to D-Sub pin No.19(COM) must be ≤22AWG

6. Flip-able D-SUB portZ: horizontal and vertical side are optional.



Horizontal plug-in



Vertical plug-in

# Integrated solenoid valve (5/2, 5/3 way)

## Communication module



### Ordering Code of communication module



**C - 6D PN 1**

1

2

3



|                        |                                     |                    |                     |                     |
|------------------------|-------------------------------------|--------------------|---------------------|---------------------|
| ① <b>Model</b>         | 6D : 6D series communication module |                    |                     |                     |
| ② <b>Protocol type</b> | PN : Profinet                       | EN : EtherNet/IP   | EA : EtherCAT       | LK : IO-Link        |
| ③ <b>Output type</b>   | 1 : PNP+24 outputs                  | 2 : NPN+24 outputs | 11 : PNP+36 outputs | 22 : NPN+36 outputs |

Note: IO-Link module doesn't have NPN type.

### Ordering Code of communication cable

**C - M12 RJ PN □ 050**

1

2

3

4

5

M12 male connector  
D-coded

M12 to M12



RJ45

M12 to RJ45



M12 to wire



|                         |                                                    |         |                                       |                            |         |
|-------------------------|----------------------------------------------------|---------|---------------------------------------|----------------------------|---------|
| ① <b>Model</b>          | C-M12 : Communication cable (M12male connector)    |         |                                       |                            |         |
| ② <b>Connector type</b> | Blank : M12 male connectors on both end            |         | RJ : M12 male connector+RJ45 terminal |                            |         |
|                         | M: M12 female connector+M12 male connector         |         | S: M12 female connector+wire          |                            |         |
| ③ <b>Protocol type</b>  | PN : Applicable to Profinet, EtherNet/IP, EtherCAT |         |                                       | LK : Applicable to IO-Link |         |
| ④ <b>Cable type</b>     | Blank: Cable                                       |         |                                       |                            |         |
| ⑤ <b>Cable length</b>   | 050: 0.5m                                          | 100: 1m | 200: 2m                               | 300: 3m                    | 500: 5m |

### Ordering Code of power supply cable

**F - M12 PN □ 150**

1

2

3

4



|                        |                                                    |          |          |  |
|------------------------|----------------------------------------------------|----------|----------|--|
| ① <b>Model</b>         | F-M12 : Power supply cable (M12 female connector)  |          |          |  |
| ② <b>Protocol type</b> | PN : Applicable to Profinet, EtherNet/IP, EtherCAT |          |          |  |
| ③ <b>Cable type</b>    | Blank : Cable                                      |          |          |  |
| ④ <b>Cable length</b>  | 150 : 1.5m                                         | 300 : 3m | 500 : 5m |  |



# Integrated solenoid valve (5/2, 5/3 way)

## Communication module

### Ordering Code of mounting bracket

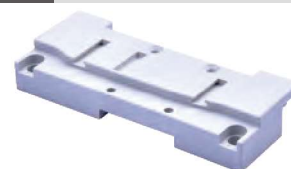
**F - 6D0500 PN - R2**

①

②

③

④



|                        |                                               |                    |                    |
|------------------------|-----------------------------------------------|--------------------|--------------------|
| ① <b>Model</b>         | F: Mounting accessory                         |                    |                    |
| ② <b>Code</b>          | 6D0500:6D0500 Series                          | 6D100:6D100 Series | 6D200:6D200 Series |
| ③ <b>Protocol type</b> | PN: For 6D module installation                |                    |                    |
| ④ <b>Output type</b>   | R2: Mounting bracket for communication module |                    |                    |

Note: Product comes with mounting screws.

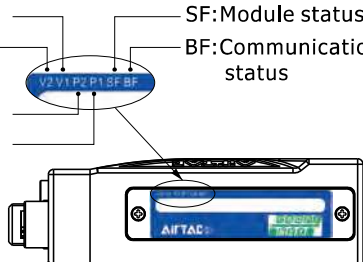
## Specification

| Protocol                 | PROFINET                                      | EtherNet/IP | EtherCAT | IO-Link                 |
|--------------------------|-----------------------------------------------|-------------|----------|-------------------------|
| Number of outputs        | 24 outputs/36 outputs                         |             |          |                         |
| Communication speed      | 100Mbps                                       |             |          | COM3/COM2               |
| Configuration file       | GSDML file                                    | EDS file    | XML file | IODD file               |
| Input power              | DC24V ± 10%                                   |             |          |                         |
| Voltage                  |                                               |             |          |                         |
| Current consumption      | <100mA                                        |             |          |                         |
| Voltage output           | DC24V ± 10%                                   |             |          |                         |
| Output type              | PNP or NPN                                    |             |          | PNP                     |
| Power connector          | M12 plug 5 pins A-coded                       |             |          | M12 plug 5 pins A-coded |
| Bus connector            | 2XM12 socket 4 pins D-coded                   |             |          |                         |
| Protection               | Dust proof                                    |             |          |                         |
| Working temperature      | -10~60°C                                      |             |          |                         |
| Working humidity         | 35~85% RH                                     |             |          |                         |
| Withstand voltage        | AC500V 1min Between terminals and housing     |             |          |                         |
| Insulation resistance    | >10MΩ (DC500V), Between terminals and housing |             |          |                         |
| Communication connection | Daisy-chain wiring                            |             |          | No                      |

## LED indicator

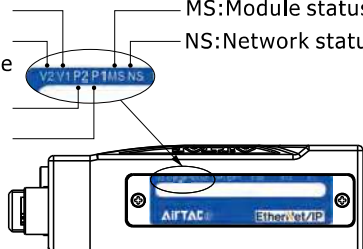
### Profinet(C-6DPN□)

- V1: Status of power supply for valves
- V2: Status of power supply for module
- P2: BUS OUT status
- P1: BUS IN status
- SF: Module status
- BF: Communication status



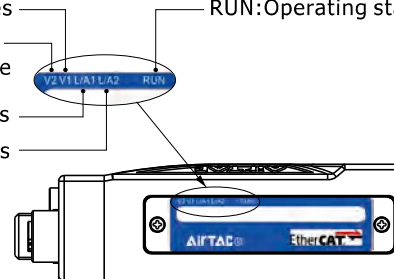
### EtherNet/IP(C-6DEN□)

- V1: Status of power supply for valves
- V2: Status of power supply for module
- P2: BUS OUT status
- P1: BUS IN status
- MS: Module status
- NS: Network status



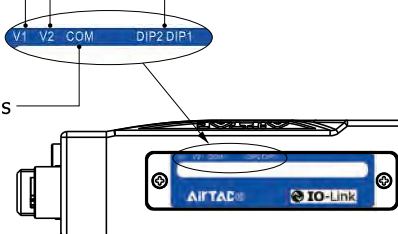
### EtherCAT(C-6DEA□)

- V1: Status of power supply for valves
- V2: Status of power supply for module
- L/A1: BUS IN status
- L/A2: BUS OUT status
- RUN: Operating status



### IO-Link(C-6DLK□)

- V2: Status of power supply for module
- V1: Status of power supply for valves
- COM: Network status
- DIP1/DIP2: Baud rate status

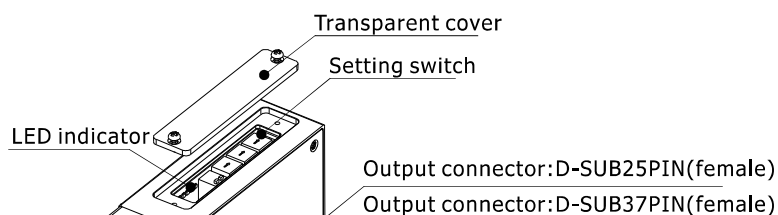


# Integrated solenoid valve (5/2, 5/3 way)

## Communication module

### Construction and function

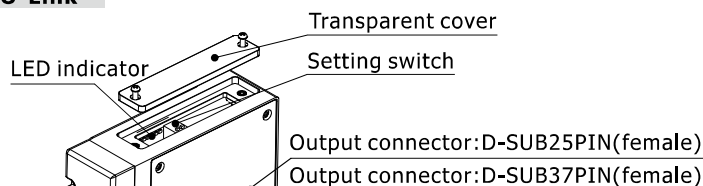
**Profinet**  
**EtherNet/IP**  
**EtherCAT**



| Protocols                             | PROFINET                             | EtherNet/IP<br>EtherCAT |
|---------------------------------------|--------------------------------------|-------------------------|
| Communication connector (M12) BUS OUT | 4 pins, socket<br>D-coded (SPEEDCON) |                         |
| Communication connector (M12) BUS IN  | 4 pins, socket<br>D-coded (SPEEDCON) |                         |
| Power connector (M12)                 | 5 pins, plug<br>A-coded (SPEEDCON)   |                         |
| Ground                                | M2.5                                 |                         |

Note: The setting varies based on different protocols.

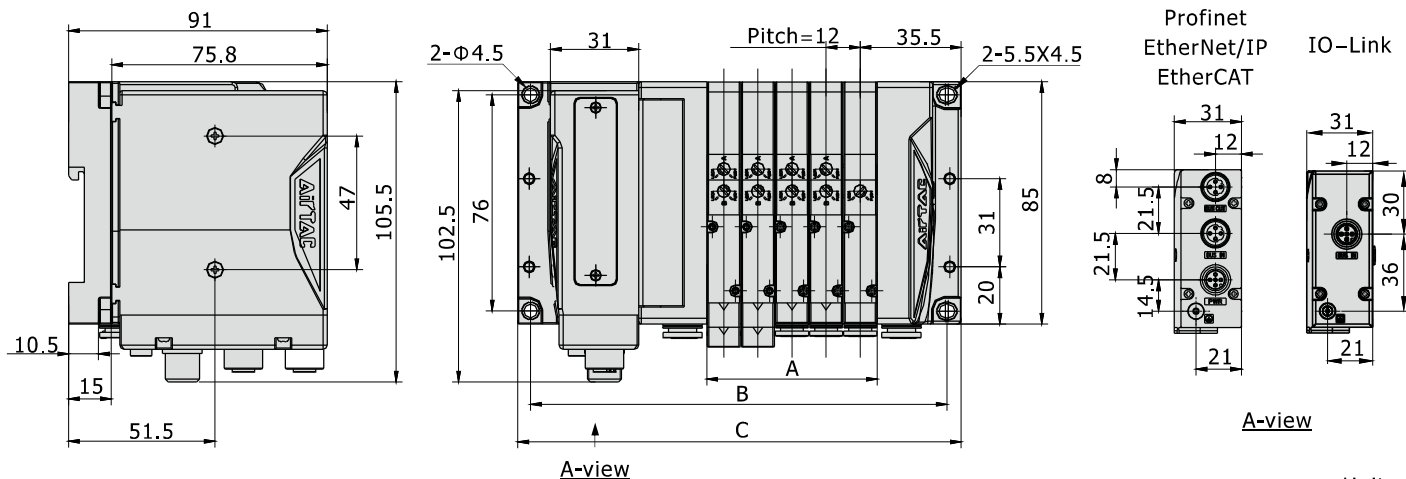
### IO-Link



| Protocols                            | IO-Link                            |
|--------------------------------------|------------------------------------|
| Communication connector (M12) BUS IN | 5 pins, plug<br>A-coded (SPEEDCON) |
| Ground                               | M2.5                               |

## Dimensions

### 6D0500 series with communication module



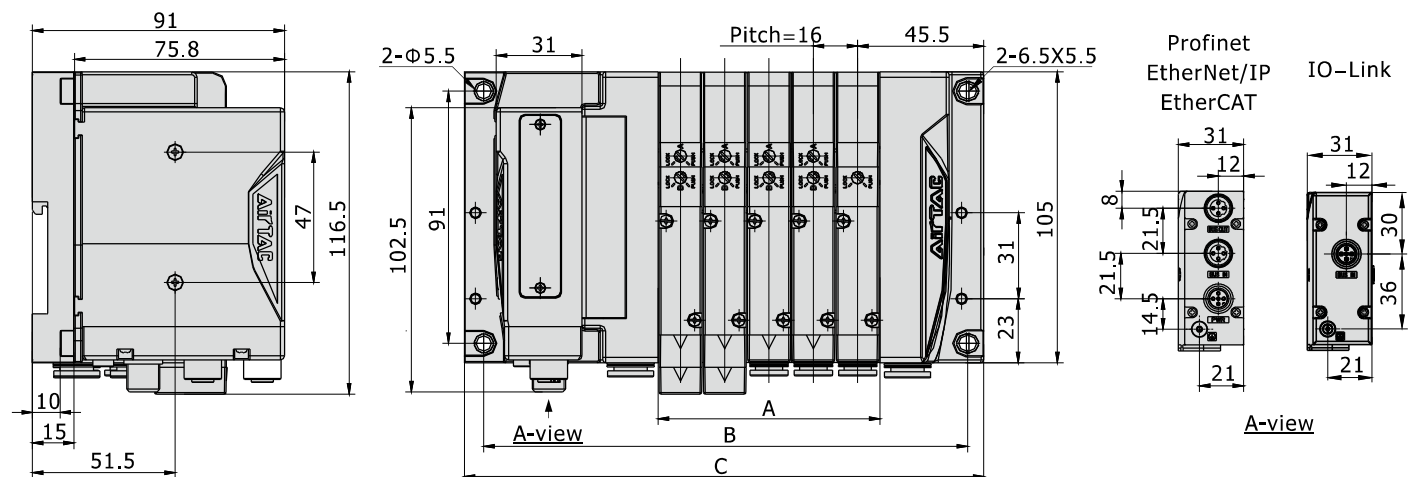
Unit:mm

| Item\Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 36    | 48    | 60    | 72    | 84    | 96    | 108   | 120   | 132   | 144   | 156   | 168   | 180   | 192   | 204   | 216   | 228   | 240   | 252   |
| B             | 122.5 | 134.5 | 146.5 | 158.5 | 170.5 | 182.5 | 194.5 | 206.5 | 218.5 | 230.5 | 242.5 | 254.5 | 266.5 | 278.5 | 290.5 | 302.5 | 314.5 | 326.5 | 338.5 |
| C             | 132   | 144   | 156   | 168   | 180   | 192   | 204   | 216   | 228   | 240   | 252   | 264   | 276   | 288   | 300   | 312   | 324   | 336   | 348   |

# Integrated solenoid valve (5/2, 5/3 way)

## Communication module

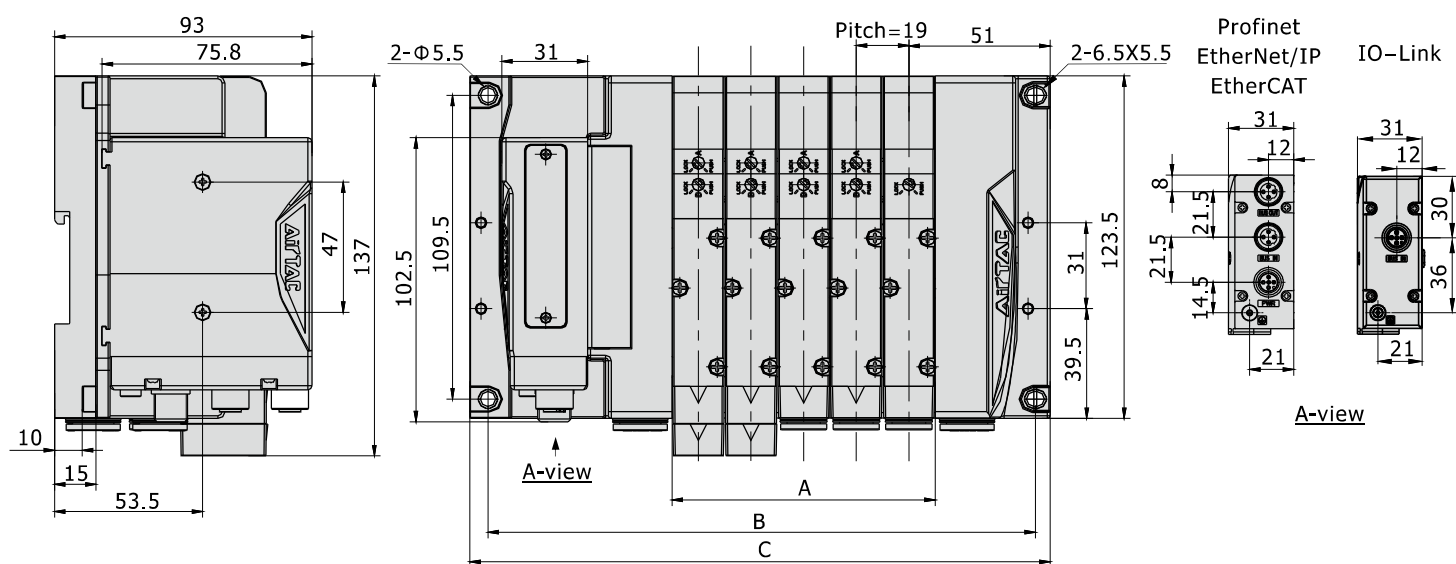
### 6D100 series with communication module



Unit:mm

| Item\Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 48    | 64    | 80    | 96    | 112   | 128   | 144   | 160   | 176   | 192   | 208   | 224   | 240   | 256   | 272   | 288   | 304   | 320   | 336   |
| B             | 142.5 | 158.5 | 174.5 | 190.5 | 206.5 | 222.5 | 238.5 | 254.5 | 270.5 | 286.5 | 302.5 | 318.5 | 334.5 | 350.5 | 366.5 | 382.5 | 398.5 | 414.5 | 430.5 |
| C             | 155.5 | 171.5 | 187.5 | 203.5 | 219.5 | 235.5 | 251.5 | 267.5 | 283.5 | 299.5 | 315.5 | 331.5 | 347.5 | 363.5 | 379.5 | 395.5 | 411.5 | 427.5 | 443.5 |

### 6D200 series with communication module



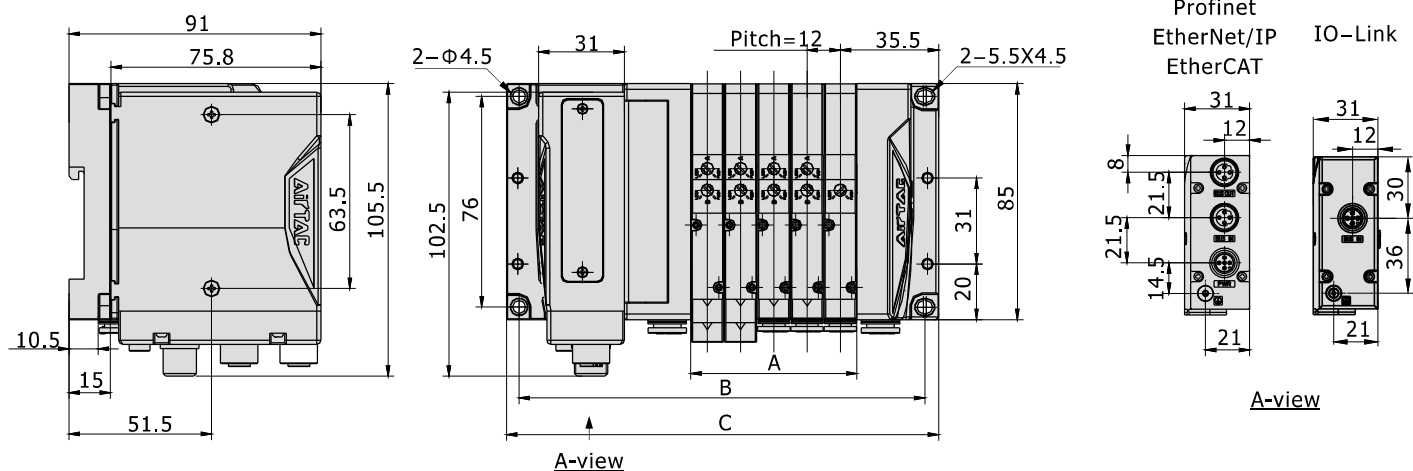
Unit:mm

| Item\Stations | 3F    | 4F    | 5F    | 6F    | 7F    | 8F    | 9F    | 10F   | 11F   | 12F   | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 57    | 76    | 95    | 114   | 133   | 152   | 171   | 190   | 209   | 228   | 247   | 266   | 285   | 304   | 323   | 342   | 361   | 380   | 399   |
| B             | 159.5 | 178.5 | 197.5 | 216.5 | 235.5 | 254.5 | 273.5 | 292.5 | 311.5 | 330.5 | 349.5 | 368.5 | 387.5 | 406.5 | 425.5 | 444.5 | 463.5 | 482.5 | 501.5 |
| C             | 171.5 | 190.5 | 209.5 | 228.5 | 247.5 | 266.5 | 285.5 | 304.5 | 323.5 | 342.5 | 361.5 | 380.5 | 399.5 | 418.5 | 437.5 | 456.5 | 475.5 | 494.5 | 513.5 |

# Integrated solenoid valve (5/2, 5/3 way)

## Communication module

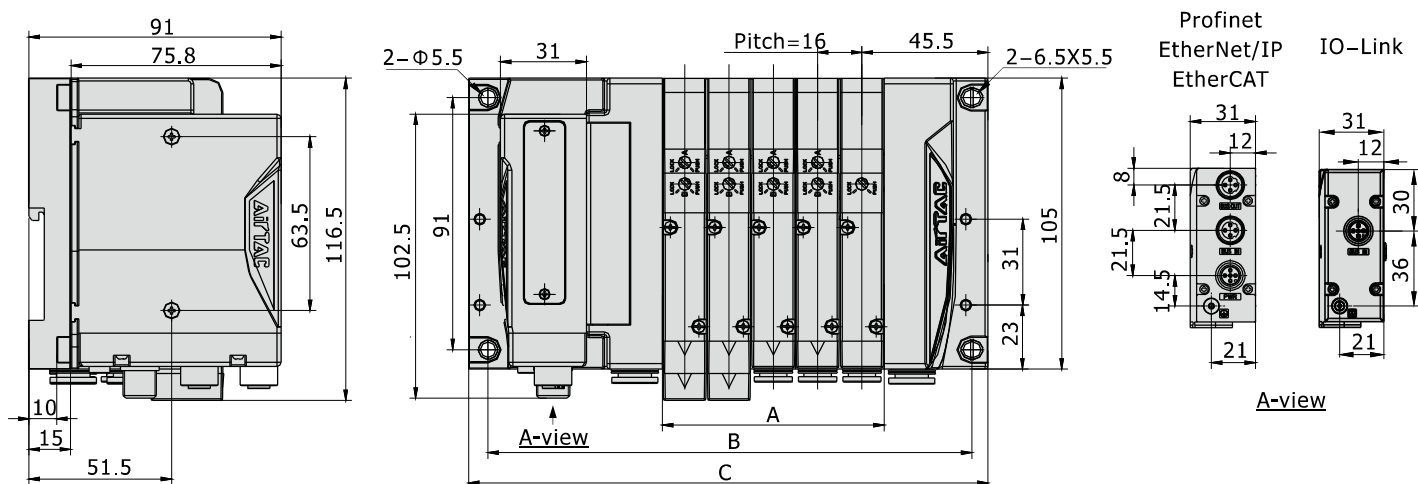
### 6DW0500 series with communication module



Unit:mm

| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 156   | 168   | 180   | 192   | 204   | 216   | 228   | 240   | 252   | 264   | 276   | 288   | 300   | 312   | 324   | 336   | 348   | 360   | 272   | 384   | 396   |
| B             | 242.5 | 254.5 | 266.5 | 278.5 | 290.5 | 302.5 | 314.5 | 326.5 | 338.5 | 350.5 | 362.5 | 374.5 | 386.5 | 398.5 | 410.5 | 422.5 | 434.5 | 446.5 | 458.5 | 470.5 | 482.5 |
| C             | 252   | 264   | 276   | 288   | 300   | 312   | 324   | 336   | 348   | 360   | 372   | 384   | 396   | 408   | 420   | 432   | 444   | 456   | 468   | 480   | 492   |

### 6DW100 series with communication module



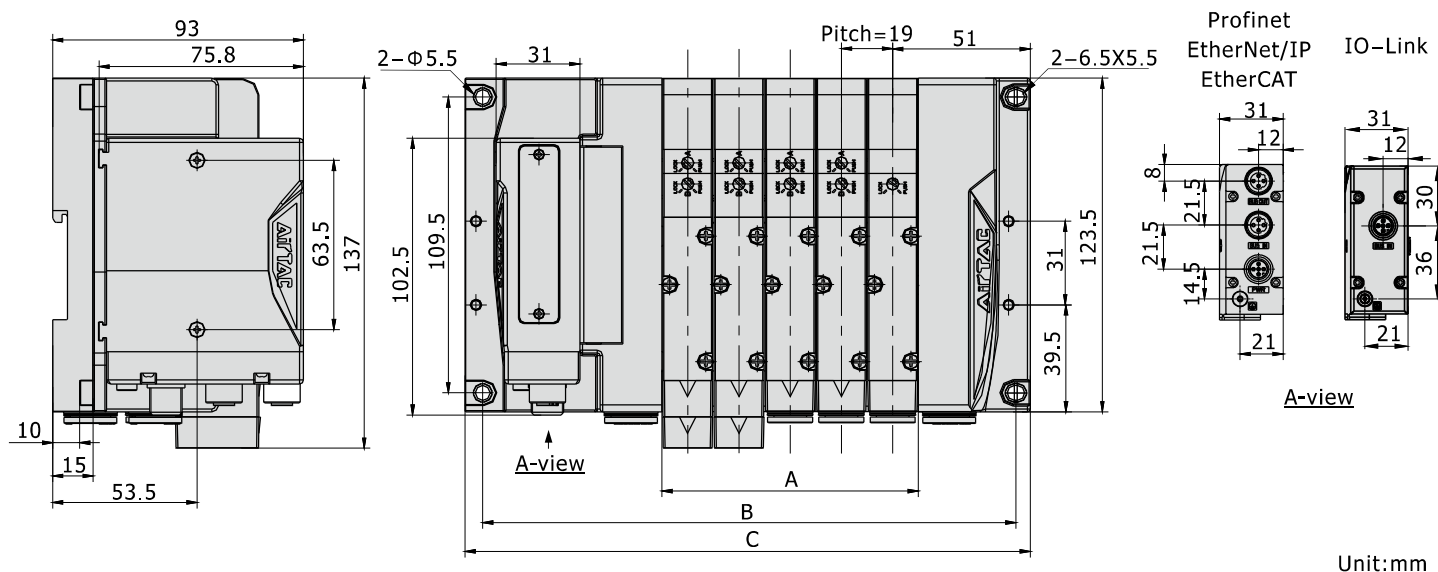
Unit:mm

| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 208   | 224   | 240   | 256   | 272   | 288   | 304   | 320   | 336   | 352   | 368   | 384   | 400   | 416   | 432   | 448   | 464   | 480   | 496   | 512   | 528   |
| B             | 302.5 | 318.5 | 334.5 | 350.5 | 366.5 | 382.5 | 398.5 | 414.5 | 430.5 | 446.5 | 462.5 | 478.5 | 494.5 | 510.5 | 526.5 | 542.5 | 558.5 | 574.5 | 590.5 | 606.5 | 622.5 |
| C             | 315.5 | 331.5 | 347.5 | 363.5 | 379.5 | 395.5 | 411.5 | 427.5 | 443.5 | 459.5 | 475.5 | 491.5 | 507.5 | 523.5 | 539.5 | 555.5 | 571.5 | 587.5 | 603.5 | 619.5 | 635.5 |

# Integrated solenoid valve (5/2, 5/3 way)

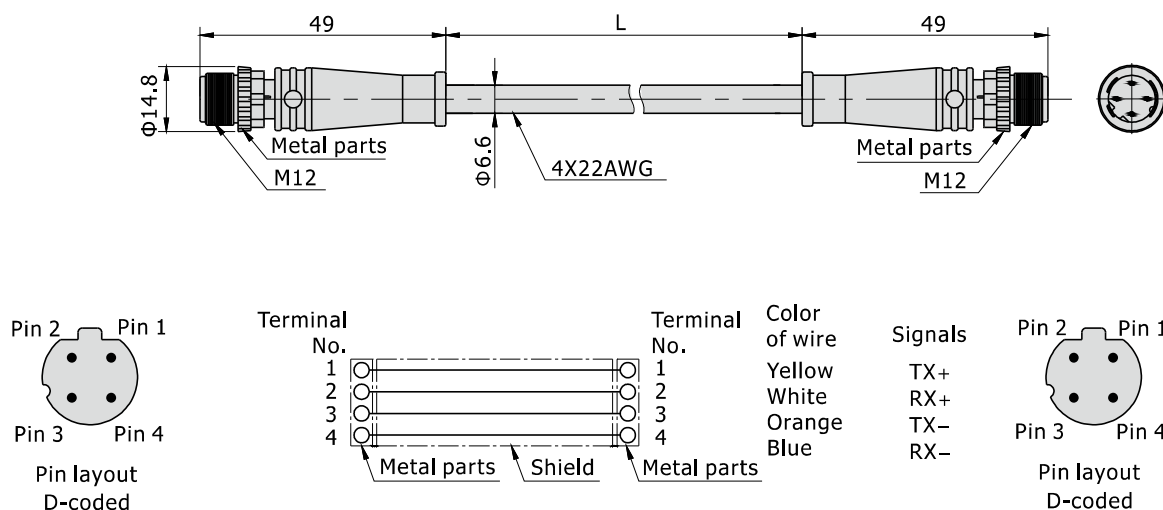
## Communication module

### 6DW200 series with communication module



| Item\Stations | 13F   | 14F   | 15F   | 16F   | 17F   | 18F   | 19F   | 20F   | 21F   | 22F   | 23F   | 24F   | 25F   | 26F   | 27F   | 28F   | 29F   | 30F   | 31F   | 32F   | 33F   |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| A             | 247   | 266   | 285   | 304   | 323   | 342   | 361   | 380   | 399   | 418   | 437   | 456   | 475   | 494   | 513   | 532   | 551   | 570   | 589   | 608   | 627   |
| B             | 349.5 | 368.5 | 387.5 | 406.5 | 425.5 | 444.5 | 463.5 | 482.5 | 501.5 | 520.5 | 539.5 | 558.5 | 577.5 | 596.5 | 615.5 | 634.5 | 653.5 | 672.5 | 691.5 | 710.5 | 729.5 |
| C             | 361.5 | 380.5 | 399.5 | 418.5 | 437.5 | 456.5 | 475.5 | 494.5 | 513.5 | 532.5 | 551.5 | 570.5 | 589.5 | 608.5 | 627.5 | 646.5 | 665.5 | 684.5 | 703.5 | 722.5 | 741.5 |

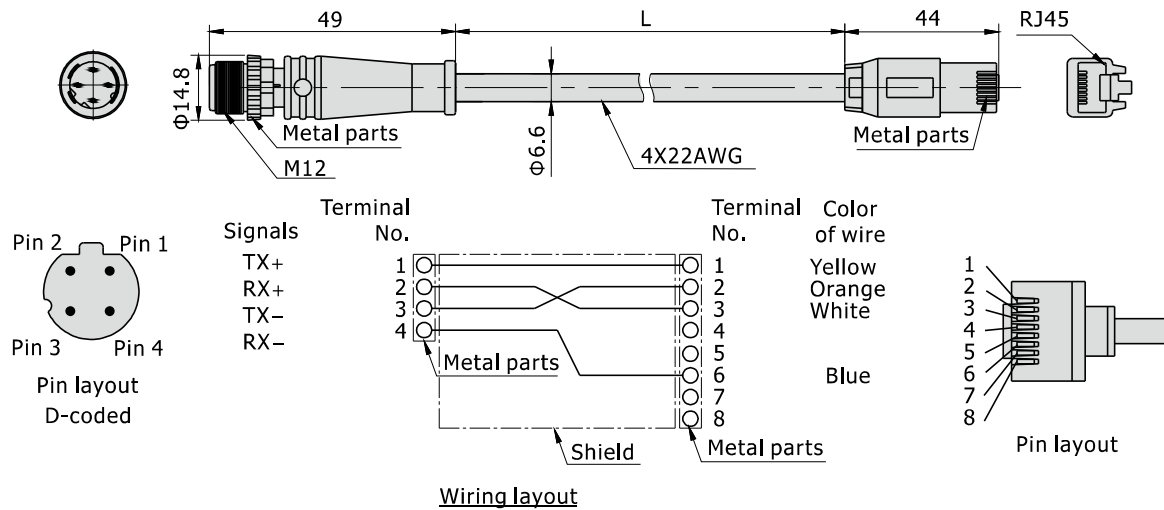
### Communication cable M12 to M12



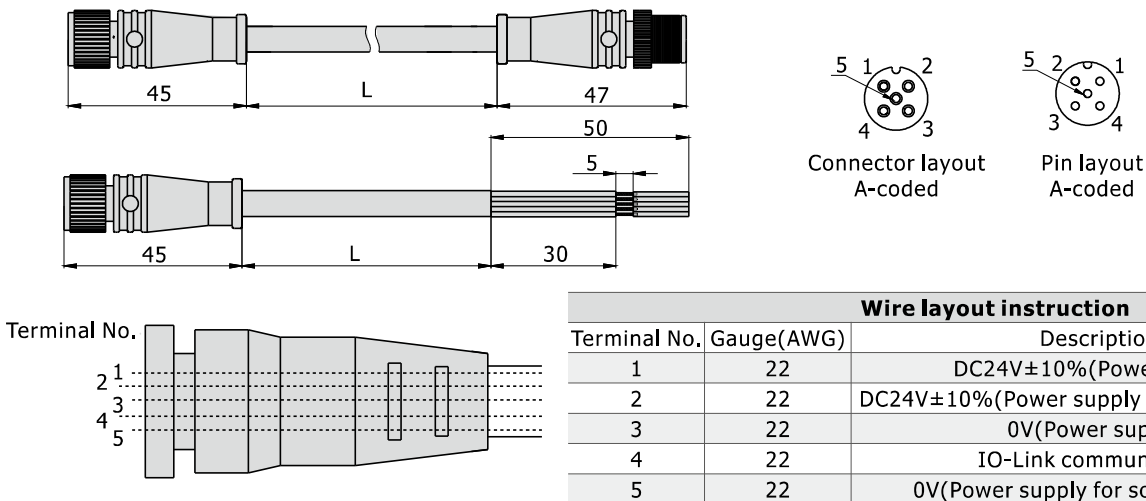
# Integrated solenoid valve (5/2, 5/3 way)

## Communication module

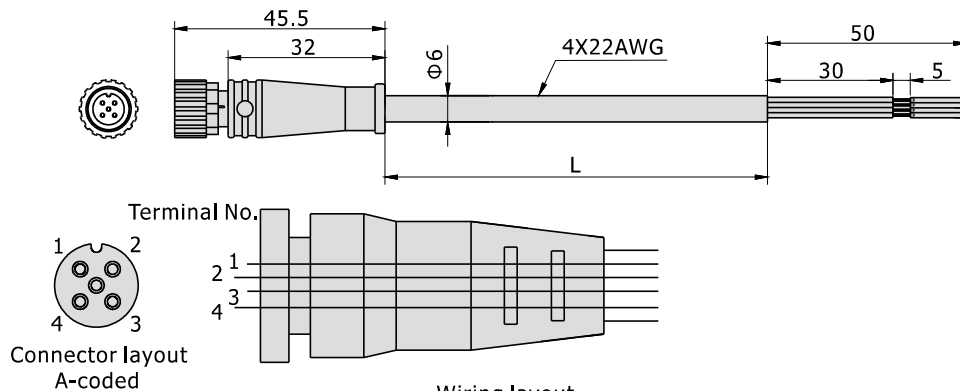
### Communication cable M12 to RJ45



### Communication cable M12 to M12/M12 to wires(IO-Link)



### Power supply cable M12 to wires

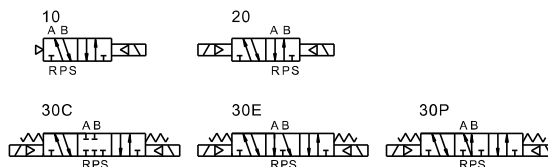


| Wire layout instruction |            |                                            |       |
|-------------------------|------------|--------------------------------------------|-------|
| Terminal No.            | Gauge(AWG) | Description                                | Color |
| 1                       | 22         | DC24V±10%(Power supply for solenoid valve) | Brown |
| 2                       | 22         | 0V(Power supply for solenoid valve)        | White |
| 3                       | 22         | DC24V ± 10 % (Power supply)                | Blue  |
| 4                       | 22         | 0V(Power supply)                           | Black |



# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series Derivatives



### Integrated Valve Ordering Code (With individual inlet valves)

(Take 6D series as an example, 6DW series comes the same way)

**6D1H 6F-N1/4 B S2 D1 C1** ☐ ☐ ☐ - ☐

1 2 3 4 5 6 7 8 9 10 11

6D Series(25pinD-SUB)  With individual inlet valves  
Optional series:  
6DW Series(37pinD-SUB)

|                                                  |                                                                                                                                                                                                                                                                                                                                     |                                                                                   |                                                                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ① <b>Model</b>                                   | 6D05H: 6D0500 Series integrated Solenoid valve                                                                                                                                                                                                                                                                                      | 6D1H: 6D100 Series integrated Solenoid valve                                      | 6D2H: 6D200 Series integrated Solenoid valve                          |
| ② <b>Number of stations</b>                      | 3F: 3 stations 4F: 4 stations ..... 21F: 21stations                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                       |
| ③ <b>Port size(A/B Port)</b>                     | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                                                                                                                                                | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting                  |
| ④ <b>Standard voltage</b>                        | B:DC24V F:DC12V                                                                                                                                                                                                                                                                                                                     |                                                                                   |                                                                       |
| ⑤ <b>Single solenoid 5/2 way</b>                 | Total number of valves                                                                                                                                                                                                                                                                                                              | Blank: No S1: 1 piece S2: 2 pieces.....S21: 21 pieces                             | Total number of valves (Includes individual inlet valves) must be ≤21 |
| ⑥ <b>Double solenoid 5/2 way</b>                 |                                                                                                                                                                                                                                                                                                                                     | Blank: No D1: 1 piece D2: 2 pieces.....D12: 12 pieces                             |                                                                       |
| ⑦ <b>Double solenoid 5/3 way closed center</b>   |                                                                                                                                                                                                                                                                                                                                     | Blank: No C1: 1 piece C2: 2 pieces.....C12: 12 pieces                             |                                                                       |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>  |                                                                                                                                                                                                                                                                                                                                     | Blank: No E1: 1 piece E2: 2 pieces.....E12: 12 pieces                             |                                                                       |
| ⑨ <b>Double solenoid 5/3 way pressure center</b> |                                                                                                                                                                                                                                                                                                                                     | Blank: No P1: 1 piece P2: 2 pieces.....P12: 12 pieces                             |                                                                       |
| ⑩ <b>Type of communication module</b>            | Blank: Without communication module<br>CPN1: Profinet+PNP CPN2: Profinet+NPN<br>CEN1: EtherNet/IP+PNP CEN2: EtherNet/IP+NPN<br>CEA1: EtherCAT+PNP CEA2: EtherCAT+NPN<br>CLK1: IO-Link+PNP                                                                                                                                           |                                                                                   |                                                                       |
| ⑪ <b>Number of individual inlet valves</b>       | SE <input type="checkbox"/> : Single solenoid 5/2 way DE <input type="checkbox"/> : Double solenoid 5/2 way<br>CE <input type="checkbox"/> : Double solenoid 5/3 way closed center<br>EE <input type="checkbox"/> : Double solenoid 5/3 way exhaust center<br>PE <input type="checkbox"/> : Double solenoid 5/3 way pressure center |                                                                                   |                                                                       |

Note:

1. Add the individual inlet type valve "E" with quantity after the standard 6D series integrated valve ordering code;
2. Maximum can add 2 types of individual inlet type valve;
3. Individual inlet type valves are mounted after the standard valves with same control type;
4. Others are the same as the standard;
5. Ordering code example: 6D1H 6F-N1/4 B S2 D1 C1 CPN1-SE1 DE1

1 pc of individual inlet type valve (Double solenoid 5/2 way)  
1 pc of individual inlet type valve (Single solenoid 5/2 way)

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series Derivatives

### Integrated Valve Ordering Code (With individual exhaust valves)

(Take 6D series as an example, 6DW series comes the same way)

**6D1H 6F-N1/4 B S2 D1 C1** ☐ ☐ ☐ - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪



|                                                   |                                                                                                                                                                                                           |           |                                                                                   |                                 |                                                                                        |  |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------|--|
| ① <b>Model</b>                                    | 6D05H: 6D0500 Series<br>integrated Solenoid valve                                                                                                                                                         |           | 6D1H: 6D100 Series<br>integrated Solenoid valve                                   |                                 | 6D2H: 6D200 Series<br>integrated Solenoid valve                                        |  |
| ② <b>Number of stations</b>                       | 3F: 3 stations    4F: 4 stations    .....    21F: 21stations                                                                                                                                              |           |                                                                                   |                                 |                                                                                        |  |
| ③ <b>Port size(A/B Port)</b>                      | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                      |           | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting |                                 | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting                                   |  |
| ④ <b>Standard voltage</b>                         | B:DC24V    F:DC12V                                                                                                                                                                                        |           |                                                                                   |                                 |                                                                                        |  |
| ⑤ <b>Single solenoid 5/2 way</b>                  | Total number<br>of valves                                                                                                                                                                                 | Blank: No | S1: 1 piece                                                                       | S2: 2 pieces.....S21: 21 pieces | Total number of<br>valves (Includes<br>individual<br>exhaust<br>valves) must be<br>≤21 |  |
| ⑥ <b>Double solenoid 5/2 way</b>                  |                                                                                                                                                                                                           | Blank: No | D1: 1 piece                                                                       | D2: 2 pieces.....D12: 12 pieces |                                                                                        |  |
| ⑦ <b>Double solenoid 5/3 way closed center</b>    |                                                                                                                                                                                                           | Blank: No | C1: 1 piece                                                                       | C2: 2 pieces.....C12: 12 pieces |                                                                                        |  |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>   |                                                                                                                                                                                                           | Blank: No | E1: 1 piece                                                                       | E2: 2 pieces.....E12: 12 pieces |                                                                                        |  |
| ⑨ <b>Double solenoid 5/3 way pressure center</b>  |                                                                                                                                                                                                           | Blank: No | P1: 1 piece                                                                       | P2: 2 pieces.....P12: 12 pieces |                                                                                        |  |
| ⑩ <b>Type of communication module</b>             | Blank: Without communication module<br>CPN1: Profinet+PNP    CPN2: Profinet+NPN<br>CEN1: EtherNet/IP+PNP    CEN2: EtherNet/IP+NPN<br>CEA1: EtherCAT+PNP    CEA2: EtherCAT+NPN<br>CLK1: IO-Link+PNP        |           |                                                                                   |                                 |                                                                                        |  |
| ⑪ <b>Number of individual exhaust type valves</b> | SR□: Single solenoid 5/2 way    DR□: Double solenoid 5/2 way<br>CR□: Double solenoid 5/3 way closed center<br>ER□: Double solenoid 5/3 way exhaust center<br>PR□: Double solenoid 5/3 way pressure center |           |                                                                                   |                                 |                                                                                        |  |

Note:

1. Add the individual exhaust type valve "R" with quantity after the standard 6D series integrated valve ordering code;
2. Maximum can add 2 types of individual exhaust type valve;
3. Individual exhaust type valves are mounted after the standard valves with same control type;
4. Others are the same as the standard;
5. Ordering code example: 6D1H 6F-N1/4 B S2 D1 C1 CPN1-SR1 DR1

1 pc of individual exhaust type valve (Double solenoid 5/2 way)

1 pc of individual exhaust type valve (Single solenoid 5/2 way)

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series Derivatives

### Integrated Valve Ordering Code (With external pilot type valves )

(Take 6D series as an example, 6DW series comes the same way)

**6D1H 6F-N1/4 B S2 D1 C1** ☐ ☐ ☐ - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪



|                                                  |                                                                                                                                                                                                                                                  |           |                                                                                   |                                 |                                                                                    |  |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------|--|
| ① <b>Model</b>                                   | 6D05H: 6D0500 Series<br>integrated Solenoid valve                                                                                                                                                                                                |           | 6D1H: 6D100 Series<br>integrated Solenoid valve                                   |                                 | 6D2H: 6D200 Series<br>integrated Solenoid valve                                    |  |
| ② <b>Number of stations</b>                      | 3F: 3 stations    4F: 4 stations    .....    21F: 21stations                                                                                                                                                                                     |           |                                                                                   |                                 |                                                                                    |  |
| ③ <b>Port size(A/B Port)</b>                     | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                                                             |           | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting |                                 | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting                               |  |
| ④ <b>Standard voltage</b>                        | B:DC24V    F:DC12V                                                                                                                                                                                                                               |           |                                                                                   |                                 |                                                                                    |  |
| ⑤ <b>Single solenoid 5/2 way</b>                 | Total number<br>of valves                                                                                                                                                                                                                        | Blank: No | S1: 1 piece                                                                       | S2: 2 pieces.....S21: 21 pieces | Total number<br>of valves<br>(Includes<br>external pilot<br>valves) must<br>be ≤21 |  |
| ⑥ <b>Double solenoid 5/2 way</b>                 |                                                                                                                                                                                                                                                  | Blank: No | D1: 1 piece                                                                       | D2: 2 pieces.....D12: 12 pieces |                                                                                    |  |
| ⑦ <b>Double solenoid 5/3 way closed center</b>   |                                                                                                                                                                                                                                                  | Blank: No | C1: 1 piece                                                                       | C2: 2 pieces.....C12: 12 pieces |                                                                                    |  |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>  |                                                                                                                                                                                                                                                  | Blank: No | E1: 1 piece                                                                       | E2: 2 pieces.....E12: 12 pieces |                                                                                    |  |
| ⑨ <b>Double solenoid 5/3 way pressure center</b> |                                                                                                                                                                                                                                                  | Blank: No | P1: 1 piece                                                                       | P2: 2 pieces.....P12: 12 pieces |                                                                                    |  |
| ⑩ <b>Type of communication module</b>            | Blank: Without communication module<br>CPN1: Profinet+PNP                      CPN2: Profinet+NPN<br>CEN1: EtherNet/IP+PNP                CEN2: EtherNet/IP+NPN<br>CEA1: EtherCAT+PNP                    CEA2: EtherCAT+NPN<br>CLK1: IO-Link+PNP |           |                                                                                   |                                 |                                                                                    |  |
| ⑪ <b>Number of external pilot type valves</b>    | SW□: Single solenoid 5/2 way              DW□: Double solenoid 5/2 way<br>CW□: Double solenoid 5/3 way closed center<br>EW□: Double solenoid 5/3 way exhaust center<br>PW□: Double solenoid 5/3 way pressure center                              |           |                                                                                   |                                 |                                                                                    |  |

Note:

1. Add the external pilot type valve "W" with quantity after the standard 6D series integrated valve ordering code;
2. Maximum can add 2 types of external pilot type valve;
3. External pilot type valves are mounted after the standard valves with same control type;
4. Others are the same as the standard;
5. Ordering code example: 6D1H 6F-N1/4 B S2 D1 C1 CPN1-SW1 DW1

1 pc of external pilot type valve (Double solenoid 5/2 way)

1 pc of external pilot type valve (Single solenoid 5/2 way)

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series Derivatives

### Integrated Valve Ordering Code (With 2X3/2 way valves)

(Take 6D series as an example, 6DW series comes the same way)

**6D1H 6F-N1/4 B S2 D1 C1** ☐ ☐ ☐ - ☐

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪



|                                                  |                                                                                                                                                                                                                                                  |           |                                                                                   |                                 |                                                      |                                                                               |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------|
| ① <b>Model</b>                                   | 6D05H: 6D0500 Series<br>integrated Solenoid valve                                                                                                                                                                                                |           | 6D1H: 6D100 Series<br>integrated Solenoid valve                                   |                                 | 6D2H: 6D200 Series<br>integrated Solenoid valve      |                                                                               |
| ② <b>Number of stations</b>                      | 3F: 3 stations    4F: 4 stations    .....    21F: 21stations                                                                                                                                                                                     |           |                                                                                   |                                 |                                                      |                                                                               |
| ③ <b>Port size(A/B Port)</b>                     | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting                                                                                                                                                                                             |           | N5/32: Φ5/32 tube fitting<br>N1/4: Φ1/4 tube fitting<br>N5/16: Φ5/16 tube fitting |                                 | N5/16: Φ5/16 tube fitting<br>N3/8: Φ3/8 tube fitting |                                                                               |
| ④ <b>Standard voltage</b>                        | B:DC24V        F:DC12V                                                                                                                                                                                                                           |           |                                                                                   |                                 |                                                      |                                                                               |
| ⑤ <b>Single solenoid 5/2 way</b>                 | Total number<br>of valves                                                                                                                                                                                                                        | Blank: No | S1: 1 piece                                                                       | S2: 2 pieces.....S21: 21 pieces |                                                      | Total number<br>of valves<br>(Includes<br>2X3/2 way<br>valves) must<br>be ≤21 |
| ⑥ <b>Double solenoid 5/2 way</b>                 |                                                                                                                                                                                                                                                  | Blank: No | D1: 1 piece                                                                       | D2: 2 pieces.....D12: 12 pieces |                                                      |                                                                               |
| ⑦ <b>Double solenoid 5/3 way closed center</b>   |                                                                                                                                                                                                                                                  | Blank: No | C1: 1 piece                                                                       | C2: 2 pieces.....C12: 12 pieces |                                                      |                                                                               |
| ⑧ <b>Double solenoid 5/3 way exhaust center</b>  |                                                                                                                                                                                                                                                  | Blank: No | E1: 1 piece                                                                       | E2: 2 pieces.....E12: 12 pieces |                                                      |                                                                               |
| ⑨ <b>Double solenoid 5/3 way pressure center</b> |                                                                                                                                                                                                                                                  | Blank: No | P1: 1 piece                                                                       | P2: 2 pieces.....P12: 12 pieces |                                                      |                                                                               |
| ⑩ <b>Type of communication module</b>            | Blank: Without communication module<br>CPN1: Profinet+PNP                      CPN2: Profinet+NPN<br>CEN1: EtherNet/IP+PNP                CEN2: EtherNet/IP+NPN<br>CEA1: EtherCAT+PNP                    CEA2: EtherCAT+NPN<br>CLK1: IO-Link+PNP |           |                                                                                   |                                 |                                                      |                                                                               |
| ⑪ <b>Number of 2X3/2 way valves</b>              | DNC□: 2X3/2 way solenoid valve (NC-NC)<br>DNO□: 2X3/2 way solenoid valve (NO-NO)                                                                                                                                                                 |           |                                                                                   |                                 |                                                      |                                                                               |

Note:

1. Add 2X3/2way valves "NC" or "NO" with quantity after the standard 6D series integrated valve ordering code;
2. 2X3/2way valves are mounted after the standard double solenoid 5/2 way;
3. Others are the same as the standard;
4. Ordering code example: 6D1H 6F-N1/4 B S2 D1 C1 CPN1-DNC1 DNO1

- 1 pc of 2X3/2way valve NO-NO (Double solenoid 5/2 way)
- 1 pc of 2X3/2way valve NC-NC (Double solenoid 5/2 way)

# Integrated solenoid valve (5/2, 5/3 way)

## 6D/6DW Series Derivatives

### 6D Series 2X3/2way Solenoid Valve Ordering Code

(Applied to both 6D and 6DW series)

**6D 1 20NC B**

① ② ③ ④



0500 Series



100 Series



200 Series

|                    |                                                                                  |               |               |
|--------------------|----------------------------------------------------------------------------------|---------------|---------------|
| ① Model            | 6D: 6D solenoid valve                                                            |               |               |
| ② Code             | 05: 0500 Series                                                                  | 1: 100 Series | 2: 200 Series |
| ③ Valve type       | 20NC: 2X3/2 way solenoid valve (NC-NC)<br>20NO: 2X3/2 way solenoid valve (NO-NO) |               |               |
| ④ Standard Voltage | B: DC24V F: DC12V                                                                |               |               |

### 6D Series Solenoid Valve Ordering Code(With different inlet type)

(Applied to both 6D and 6DW series)

**6D 1 20 B - W**

① ② ③ ④ ⑤



W: External pilot type



E: Individual inlet type



R: Individual exhaust type

|                    |                                                                                                                                                                                                          |                          |                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------|
| ① Model            | 6D: 6D solenoid valve                                                                                                                                                                                    |                          |                            |
| ② Code             | 05: 0500 Series                                                                                                                                                                                          | 1: 100 Series            | 2: 200 Series              |
| ③ Valve type       | 10 : Single solenoid(5/2 Way) 20 : Double solenoid(5/2 Way) 30C : Double solenoid(5/3 way closed center)<br>30E : Double solenoid(5/3 way exhaust center) 30P : Double solenoid(5/3 way pressure center) |                          |                            |
| ④ Standard Voltage | B: DC24V F: DC12V                                                                                                                                                                                        |                          |                            |
| ⑤ Valve type       | W: External pilot type                                                                                                                                                                                   | E: Individual inlet type | R: Individual exhaust type |

## Specification

| Model                     |            | 6D0500/6DW0500                             | 6D100/6DW100                    | 6D200/6DW200             |
|---------------------------|------------|--------------------------------------------|---------------------------------|--------------------------|
| Fluid                     |            | Air(to be filtered by 40μm filter element) |                                 |                          |
| Acting                    |            | Pilot                                      |                                 |                          |
| Operating pressure        | 5/3 way    | 0.2~0.8MPa(29~114psi)                      |                                 |                          |
|                           | Others     | 0.15~0.8MPa(21~114psi)                     |                                 |                          |
| Proof pressure            |            | 1.2MPa(175psi)                             |                                 |                          |
| Temperature               |            | -20~70°C                                   |                                 |                          |
| Type of inlet and exhaust |            | Centralized inlet and exhaust              |                                 |                          |
| Numbers of station        | 6D         | 3-21 stations                              |                                 |                          |
|                           | 6DW        | 13-33 stations                             |                                 |                          |
| Port size                 | A, B ports | Φ5/32, Φ1/4 tube fitting                   | Φ5/32, Φ1/4, Φ5/16 tube fitting | Φ5/16, Φ3/8 tube fitting |
|                           | P, R ports | Φ5/16 tube fitting                         | Φ3/8 tube fitting               | Φ1/2 tube fitting        |
| Electrical entry          |            | Terminal, 6D: 25pinD-SUB/6DW: 37pinD-SUB   |                                 |                          |

## Coil specification

| Item                       | Specification      |
|----------------------------|--------------------|
| Standard voltage           | DC24V DC12V        |
| Scope of voltage           | DC : ±10%          |
| Power of consumption       | DC : 0.7W          |
| Protection                 | Dustproof          |
| Temperature classification | F Class            |
| Electrical entry           | Terminal           |
| Activating time            | 0.05 sec and below |

## Product feature

1. Centralized inlets, outlets and signal input (25pin D-SUB/37pin D-SUB) make it highly simplifies installation and reduces risk during mounting.
2. Flexible combination for various applications.
3. Convenient installation, can be fixed on panel or DIN rail without other accessory.
4. 2 position and 3 position valves can be installed on the same manifold without further accessories.
5. Affiliated manual devices are equipped to facilitate installation and debugging.
6. Low starting voltage and long service life.