

# 5/2-directional valve, Series CD12, double solenoid

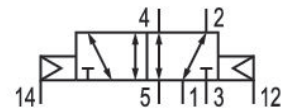
5725565202

CD12

2025-12-10

## AVENTICS Series CD12 Directional valves

The AVENTICS Series CD consists of various spool valves with an extremely durable die-cast zinc housing. Its electrical, pneumatic, or mechanical actuating controls (roller, lever, pedal, or plunger) make the Series CD ideal for applications in harsh environments.



## Technical data

Industry

Activation

Valve type

Basic valve equipment

Switching principle

Sealing principle

Connection type

Industrial

Electrically

Spool valve, positive overlapping

Basic valve without pilot valve

5/2, double solenoid

Soft seal

Pipe connection

Compressed air connection type

Standard compressed air connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Pilot control exhaust

Compressed air connection pilot input

Internal thread

according to ISO 228-1

G 1/2

G 1/2

G 1/2

with directional pilot air exhaust

G 1/8

Nominal flow Q<sub>n</sub>

4100 l/min

Min. working pressure

-0.95 bar

# 5/2-directional valve, Series CD12, double solenoid

5725565202

CD12

2025-12-10

|                                       |                       |
|---------------------------------------|-----------------------|
| Max. working pressure                 | 16 bar                |
| Min. control pressure                 | 2 bar                 |
| Max. control pressure                 | 16 bar                |
| Electrical connection type            | Plug                  |
| Electrical connection size            | EN 175301-803, form A |
| Electrical connection number of poles | 3-pin                 |
| Connector standard                    | EN 175301-803:2006    |
| Pilot                                 | External              |
| Coil width                            | 30 mm                 |
| Pilot valve width                     | 30 mm                 |
| Duty cycle                            | 100 %                 |
| Temperature resistance                | -25 °C cold-resistant |
| ATEX                                  | ATEX optional         |
| Min. ambient temperature              | -25 °C                |
| Max. ambient temperature              | 70 °C                 |
| Min. medium temperature               | -25 °C                |
| Max. medium temperature               | 70 °C                 |
| Medium                                | Compressed air        |
| Min. oil content of compressed air    | 0 mg/m <sup>3</sup>   |
| Max. oil content of compressed air    | 1 mg/m <sup>3</sup>   |
| Max. particle size                    | 50 µm                 |
| Weight                                | 0.9 kg                |

## Material

|                  |                                                |
|------------------|------------------------------------------------|
| Housing material | Aluminum<br>Polyamide, fiber-glass reinforced  |
| Seal material    | Acrylonitrile butadiene rubber<br>Polyurethane |

|          |            |
|----------|------------|
| Part No. | 5725565202 |
|----------|------------|

# 5/2-directional valve, Series CD12, double solenoid

5725565202

CD12

2025-12-10

---

## Technical information

ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

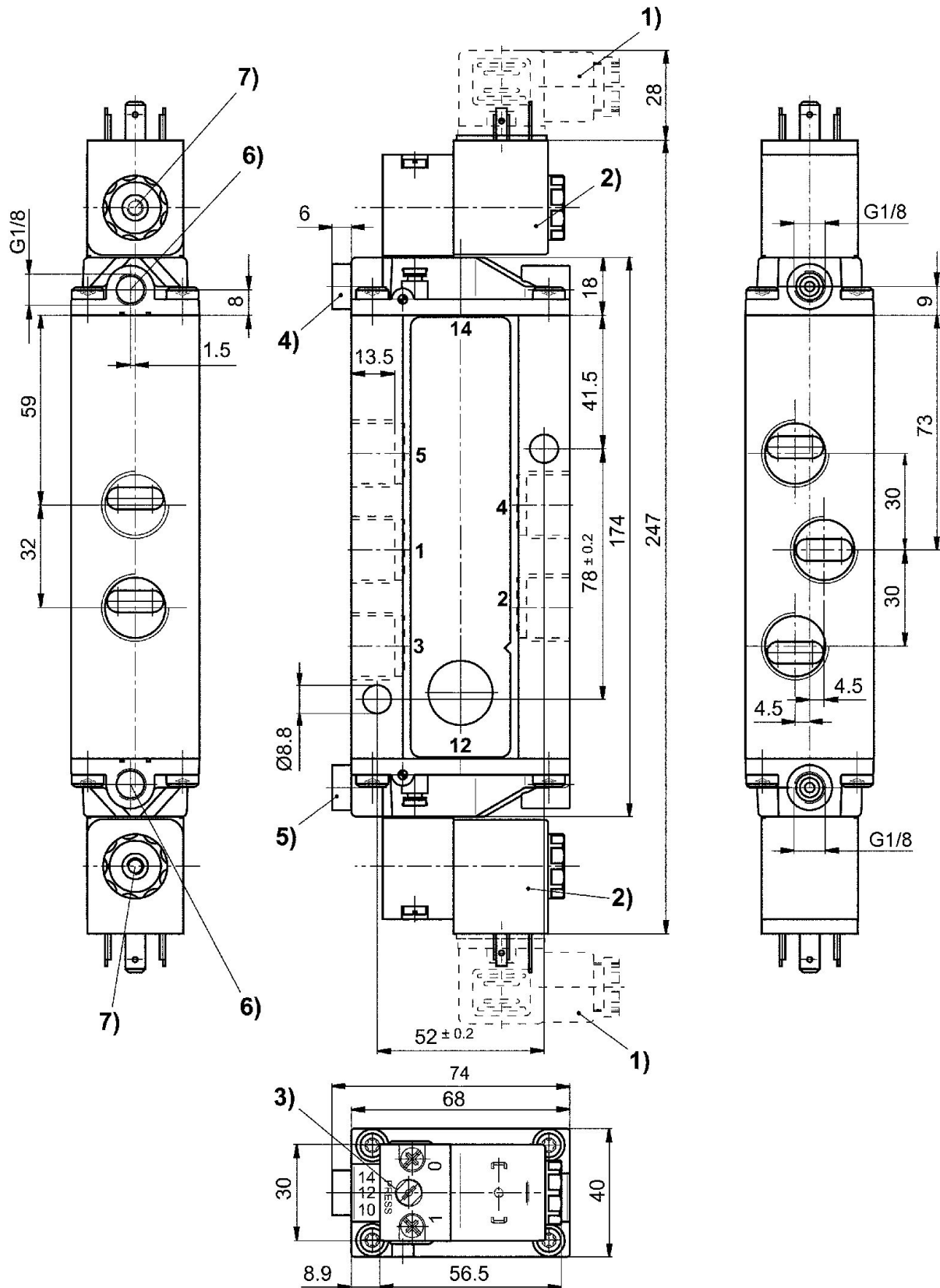
# 5/2-directional valve, Series CD12, double solenoid

5725565202

CD12

2025-12-10

## Dimensions



- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override  
4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5