

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

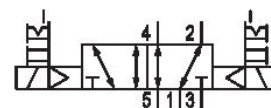
5725505280

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

Switching principle

Sealing principle

Connection type

Manual override

Industrial

Electrically

Spool valve, positive overlapping

5/2, double solenoid

Soft seal

Pipe connection

with detent

without detent

Compressed air connection type

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Pilot control exhaust

Compressed air connection pilot exhaust

Internal thread

M22x1,5

M22x1,5

M22x1,5

with directional pilot air exhaust

M5

Nominal flow Q<sub>n</sub>

4100 l/min

Min. working pressure

2 bar

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|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Max. working pressure                 | 10 bar                              |
| Min. control pressure                 | 2 bar                               |
| Max. control pressure                 | 10 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                  |
| Protection class with connection      | IP65                                |
| Reverse polarity protection           | Protected against polarity reversal |
| Operational voltage AC at 50 Hz       | 230 V                               |
| Voltage tolerance AC 50 Hz            | -20 % / +10 %                       |
| Operational voltage AC at 60 Hz       | 230 V                               |
| Voltage tolerance AC 60 Hz            | -10 % / +20 %                       |
| Pilot                                 | Internal                            |
| Coil width                            | 30 mm                               |
| Pilot valve width                     | 30 mm                               |
| Compatibility index                   | 52                                  |
| Holding power AC 50 Hz                | 4.4 VA                              |
| Holding power AC 60 Hz                | 3.5 VA                              |
| Switch-on power AC 50 Hz              | 6.9 VA                              |
| Switch-on power AC 60 Hz              | 6.2 VA                              |
| Duty cycle                            | 100 %                               |
| Typ. switch-on time                   | 36 ms                               |
| Typ. switch-off time                  | 36 ms                               |
| Temperature resistance                | -25 °C cold-resistant               |
| Min. ambient temperature              | -15 °C                              |
| Max. ambient temperature              | 50 °C                               |
| Min. medium temperature               | -15 °C                              |
| Max. medium temperature               | 50 °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                                | 1.1 kg                              |

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## Material

Housing material

Aluminum

Polyamide, fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Polyurethane

Part No.

5725505280

## Technical information

\*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>).

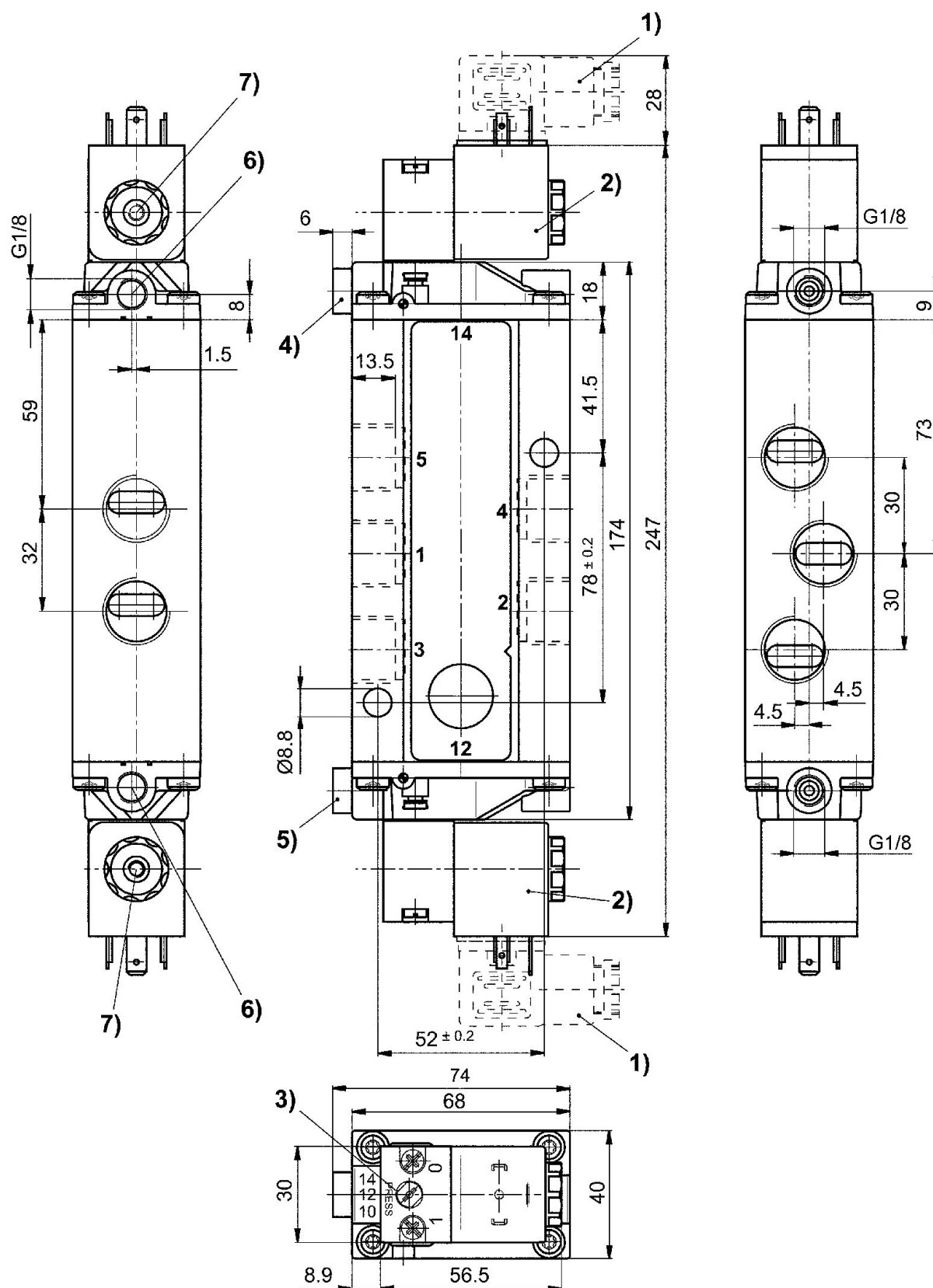
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## Dimensions



- 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