

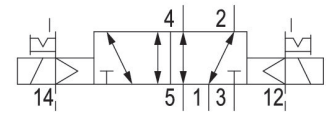
# 5/2-directional valve, Series CD07, double solenoid

R432016616

2025-12-08

## AVENTICS Series CD07 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

Frame size

Valve type

Switching principle

Sealing principle

Connection type

Manual override

Industrial

Electrically operated

CD07 - inch

Spool valve, positive overlapping

5/2, double solenoid

Soft seal

Pipe connection

with detent

Compressed air 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

Compressed air connection pilot exhaust

1/4 NPT

Internal thread

according to ISO 228-1

1/4 NPT

1/4 NPT

1/4 NPT

with directional pilot air exhaust

1/8 NPT

M5

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|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Nominal flow Qn                       | 1200 l/min                          |
| Nominal flow Qn 1 to 2                | 1200 l/min                          |
| Nominal flow Qn 2 to 3                | 1200 l/min                          |
| Min. working pressure                 | 2 bar                               |
| Max. working pressure                 | 10 bar                              |
| Min. control pressure                 | 1.5 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                   | 12 V DC                             |
| Operational voltage DC                | 12 V                                |
| Voltage tolerance DC                  | -10 % / +10 %                       |
| Pilot                                 | External                            |
| Coil width                            | 30 mm                               |
| Compatibility index                   | 52                                  |
| Power consumption DC                  | 2.7 W                               |
| Duty cycle                            | 100 %                               |
| Typ. switch-on time                   | 21 ms                               |
| Typ. switch-off time                  | 21 ms                               |
| 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                               |
| Mounting on manifold strip            | P-strip<br>PRS strip                |

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|        |         |
|--------|---------|
| Weight | 0.75 kg |
|--------|---------|

## Material

|                  |                                   |
|------------------|-----------------------------------|
| Housing material | Die cast zinc                     |
|                  | Polyamide, fiber-glass reinforced |
| Seal material    | Acrylonitrile butadiene rubber    |

|          |            |
|----------|------------|
| Part No. | R432016616 |
|----------|------------|

## Technical information

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.

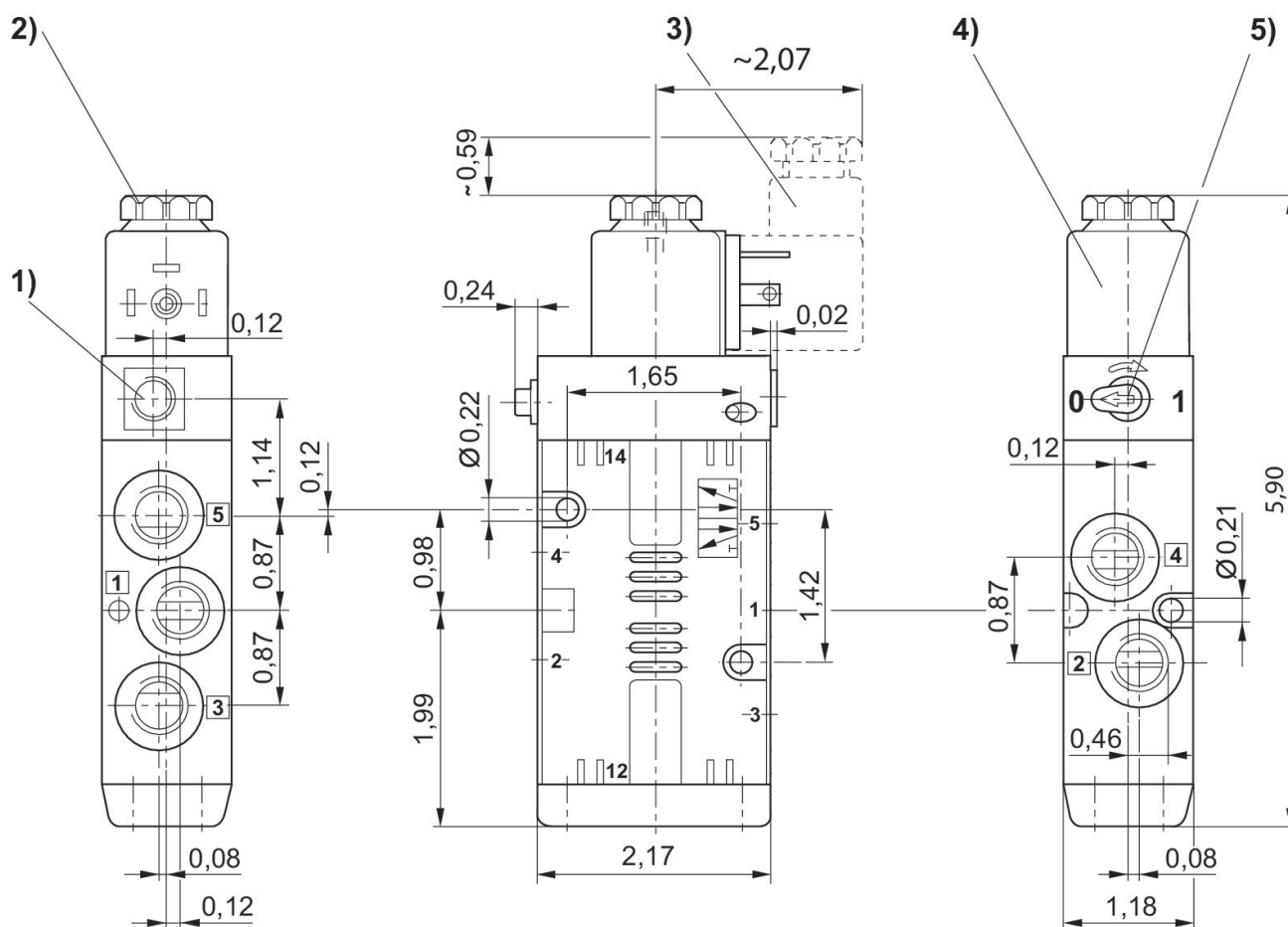
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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Dimensions in inches



1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector  
4) Coil can be plugged at 45° intervals 5) Manual override