

# 3/2-directional valve, Series CD07, single solenoid

5772075280

CD07

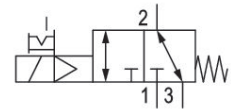
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## AVENTICS Series CD07 Directional valves

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.

For demanding environments

- Durable design
- Assembly on base plate
- Suitable for extreme ambient temperatures
- ATEX version available



## Technical data

|                                    |                                    |
|------------------------------------|------------------------------------|
| Industry                           | Industrial                         |
| Activation                         | Electrically operated              |
| Frame size                         | CD07                               |
| Valve type                         | Spool valve, positive overlapping  |
| Switching principle                | 3/2, with spring return            |
| Valve function                     | NC/NO                              |
| Sealing principle                  | Soft seal                          |
| Connection type                    | Pipe connection                    |
| Manual override                    | with detent                        |
| Compressed air connection          | G 1/4                              |
| Compressed air connection type     | Internal thread                    |
| Standard compressed air connection | according to ISO 228-1             |
| Compressed air connection input    | G 1/4                              |
| Compressed air connection output   | G 1/4                              |
| Compressed air connection, exhaust | G 1/4                              |
| Pilot control exhaust              | with directional pilot air exhaust |
| Nominal flow Qn                    | 1400 l/min                         |
| Nominal flow Qn 1 to 2             | 1400 l/min                         |
| Nominal flow Qn 2 to 3             | 1400 l/min                         |
| Min. working pressure              | 3 bar                              |

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|                                    |                                     |
|------------------------------------|-------------------------------------|
| Max. working pressure              | 10 bar                              |
| Min. control pressure              | 3 bar                               |
| Max. control pressure              | 10 bar                              |
| Electrical connection type         | Plug                                |
| Electrical connection size         | EN 175301-803, form A               |
| Connector standard                 | EN 175301-803:2006                  |
| Protection class with connection   | IP65                                |
| Reverse polarity protection        | Protected against polarity reversal |
| Operational voltage                | 230 V AC                            |
| 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             | 4.8 VA                              |
| Holding power AC 60 Hz             | 4.1 VA                              |
| Switch-on power AC 50 Hz           | 6.9 VA                              |
| Switch-on power AC 60 Hz           | 5.8 VA                              |
| Duty cycle                         | 100 %                               |
| Typ. switch-on time                | 25 ms                               |
| Typ. switch-off time               | 45 ms                               |
| Temperature resistance             | -25 °C cold-resistant               |
| Min. medium temperature            | -25 °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                             | 0.54 kg                             |

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## Material

Housing material

Die cast zinc

Polyamide, fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Part No.

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## Technical information

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar

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.

option valve: The input and output compressed air connections can be exchanged. The valve can thereby be used in the NC or NO operating mode.

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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[illegible]

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