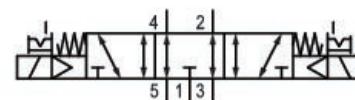


## AVENTICS Series CD04 Directional valves

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



## Technical data

Industry

Activation

Valve type

Switching principle

Valve function

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically

Spool valve, positive overlapping

5/3, exhausted center

Exhausted Center

Double Solenoid

Soft seal

Pipe connection

with detent

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 exhaust

Internal thread

according to ISO 228-1

G 1/8

G 1/8

G 1/8

with directional pilot air exhaust

M5

Nominal flow Q<sub>n</sub>

900 l/min

# 5/3-directional valve, Series CD04

CD04

5777410220

2025-10-21

|                                       |                       |
|---------------------------------------|-----------------------|
| Nominal flow Qn 1 to 2                | 900 l/min             |
| Nominal flow Qn 2 to 3                | 900 l/min             |
| Min. working pressure                 | 3.5 bar               |
| Max. working pressure                 | 10 bar                |
| Min. control pressure                 | 3.5 bar               |
| Max. control pressure                 | 10 bar                |
| Electrical connection type            | Plug                  |
| Electrical connection size            | EN 175301-803, form B |
| Electrical connection number of poles | 3-pin                 |
| Connector standard                    | EN 175301-803:2006    |
| Protection class with connection      | IP65                  |
| Operational voltage                   | 24 V DC               |
| Operational voltage DC                | 24 V                  |
| Voltage tolerance DC                  | -10 % / +10 %         |
| Pilot                                 | Internal              |
| Coil width                            | 22 mm                 |
| Pilot valve width                     | 26 mm                 |
| Compatibility index                   | 44                    |
| Power consumption DC                  | 4.8 W                 |
| Duty cycle                            | 100 %                 |
| Typ. switch-on time                   | 12 ms                 |
| Typ. switch-off time                  | 27 ms                 |
| Temperature resistance                | -15 °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                 |
| Mounting on manifold strip            | P-strip               |
| Weight                                | 0.5 kg                |

## Material

Housing material

Die cast zinc

Polyamide, fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Part No.

5777410220

## Technical information

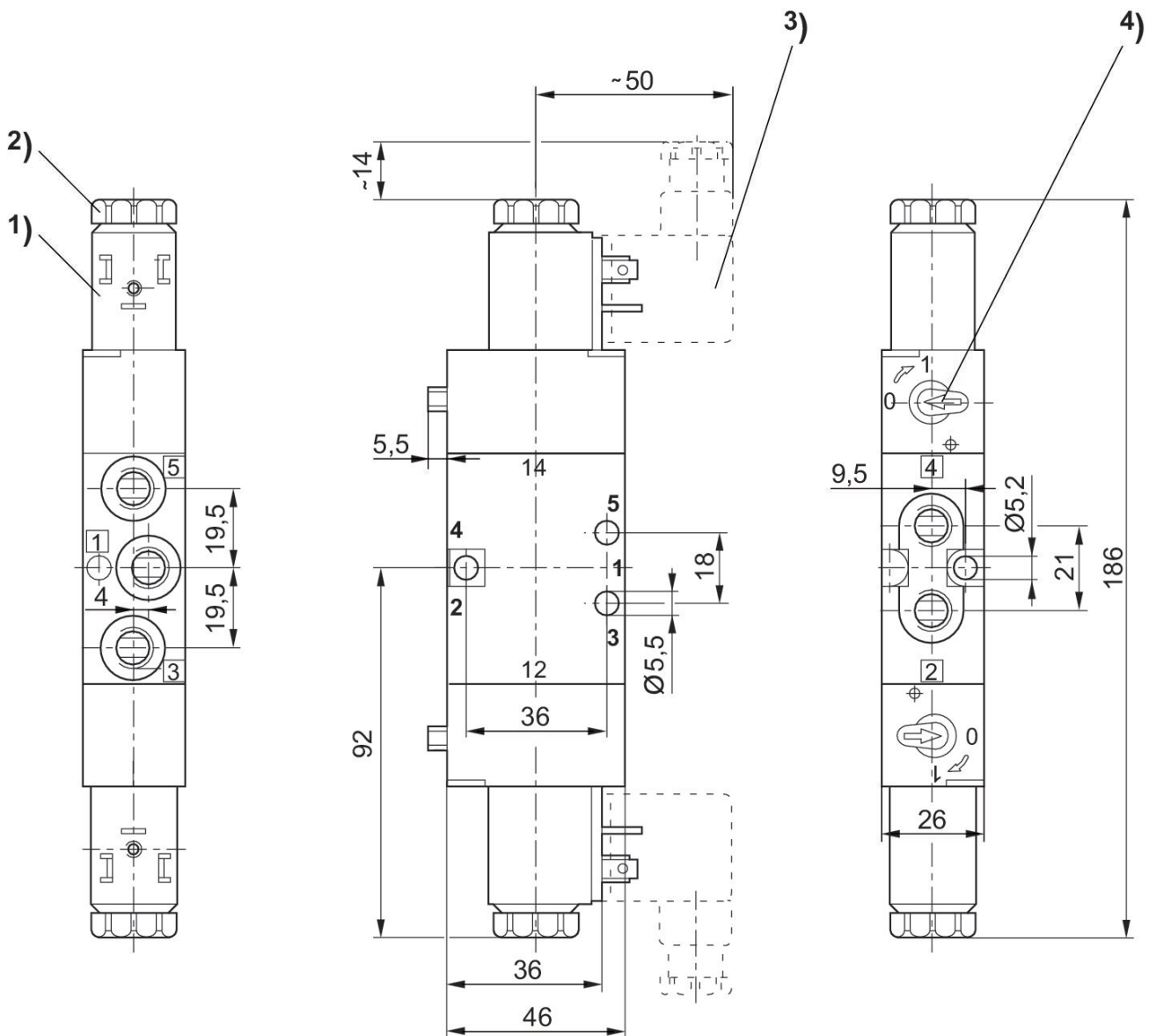
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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>).

## Dimensions



- 1) Coil can be rotated at 90° intervals
- 2) After removal of cap M5 internal thread
- 3) Valve plug connector can be plugged at 180° intervals
- 4) Manual override