

## 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



## Technical data

Industry

Activation

Note

Valve type

Sealing principle

Connection type

Manual override

Industrial

Electrically

Archive product: Do not use in new constructions!

Spool valve, positive overlapping

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 1/4

G 1/4

G 1/4

with directional pilot air exhaust

M5

Nominal flow Q<sub>n</sub>

1200 l/min

Nominal flow Q<sub>n</sub> 1 to 2

1200 l/min

Nominal flow Q<sub>n</sub> 2 to 3

1200 l/min

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Min. working pressure              | 3 bar                               |
| 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 AC at 50 Hz    | 24 V                                |
| Voltage tolerance AC 50 Hz         | -20 % / +10 %                       |
| Operational voltage AC at 60 Hz    | 24 V                                |
| Voltage tolerance AC 60 Hz         | -10 % / +20 %                       |
| Pilot                              | Internal                            |
| Coil width                         | 30 mm                               |
| Pilot valve width                  | 30 mm                               |
| Compatibility index                | 14                                  |
| Holding power AC 50 Hz             | 4.3 VA                              |
| Holding power AC 60 Hz             | 3.2 VA                              |
| Switch-on power AC 50 Hz           | 6.9 VA                              |
| Switch-on power AC 60 Hz           | 5.6 VA                              |
| Duty cycle                         | 100 %                               |
| Typ. switch-on time                | 25 ms                               |
| Typ. switch-off time               | 45 ms                               |
| Temperature resistance             | -25 °C cold-resistant               |
| Min. ambient temperature           | -25 °C                              |
| Max. ambient temperature           | 50 °C                               |
| 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                               |
| Mounting on manifold strip         | P-strip<br>PRS strip                |

Weight 0.57 kg

## Material

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

Part No. 5776075220

## 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.

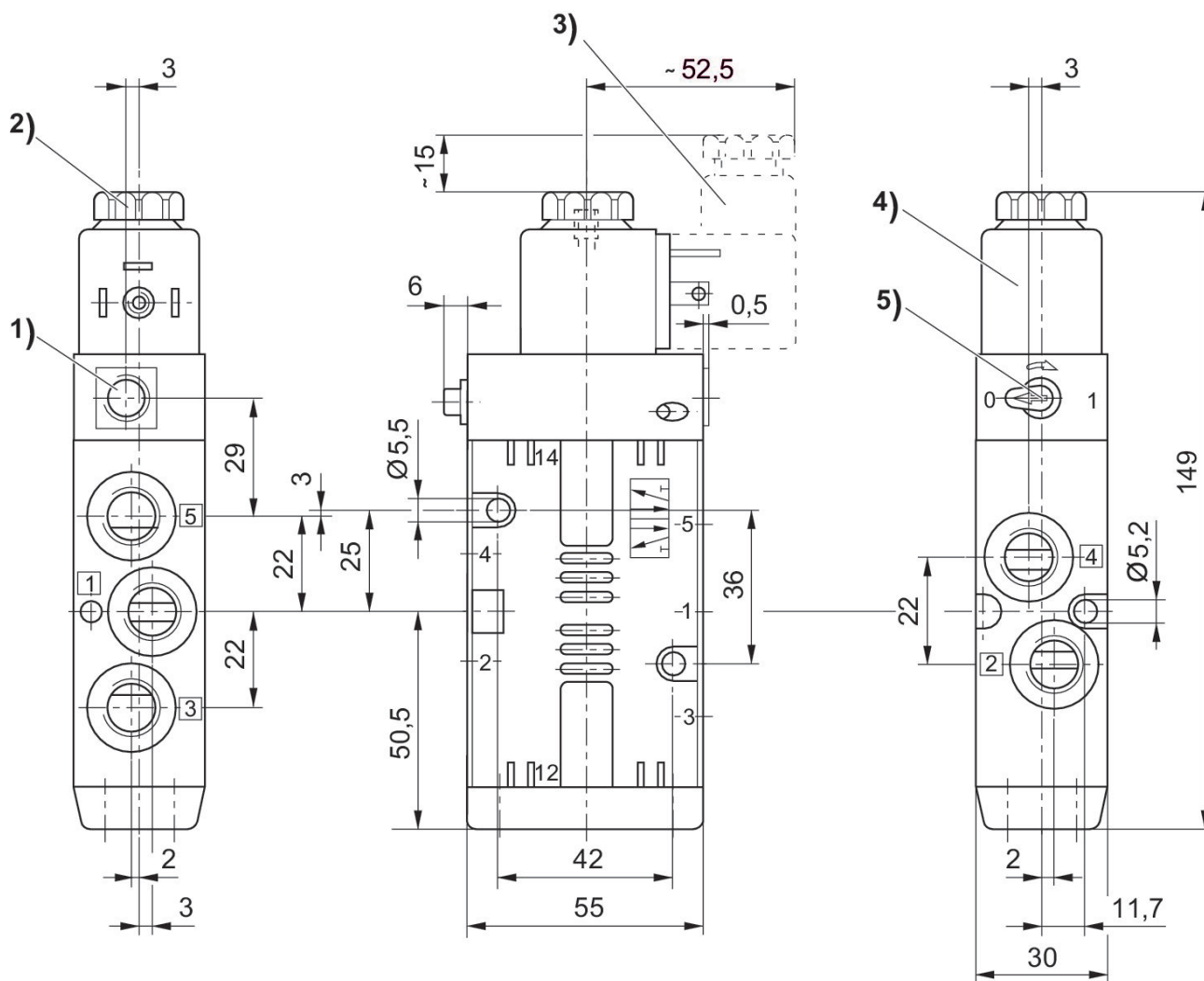
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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 in mm



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