

5/2-directional valve, Series CD04, single solenoid

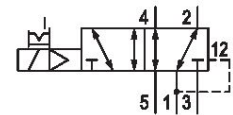
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CD04

2025-10-22

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

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically

Spool valve, positive overlapping

5/2, with spring return

Single 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_n

900 l/min

Nominal flow Q_n 1 to 2

900 l/min

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Nominal flow Qn 2 to 3	900 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 B
Electrical connection number of poles	3-pin
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Operational voltage	24 V AC
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	22 mm
Pilot valve width	26 mm
Compatibility index	44
Holding power AC 50 Hz	8.3 VA
Holding power AC 60 Hz	6.7 VA
Switch-on power AC 50 Hz	10.8 VA
Switch-on power AC 60 Hz	9.4 VA
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	21 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 ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	50 µm

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Mounting on manifold strip

P-strip

Weight

0.39 kg

Material

Housing material

Die cast zinc

Polyamide, fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Part No.

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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>).

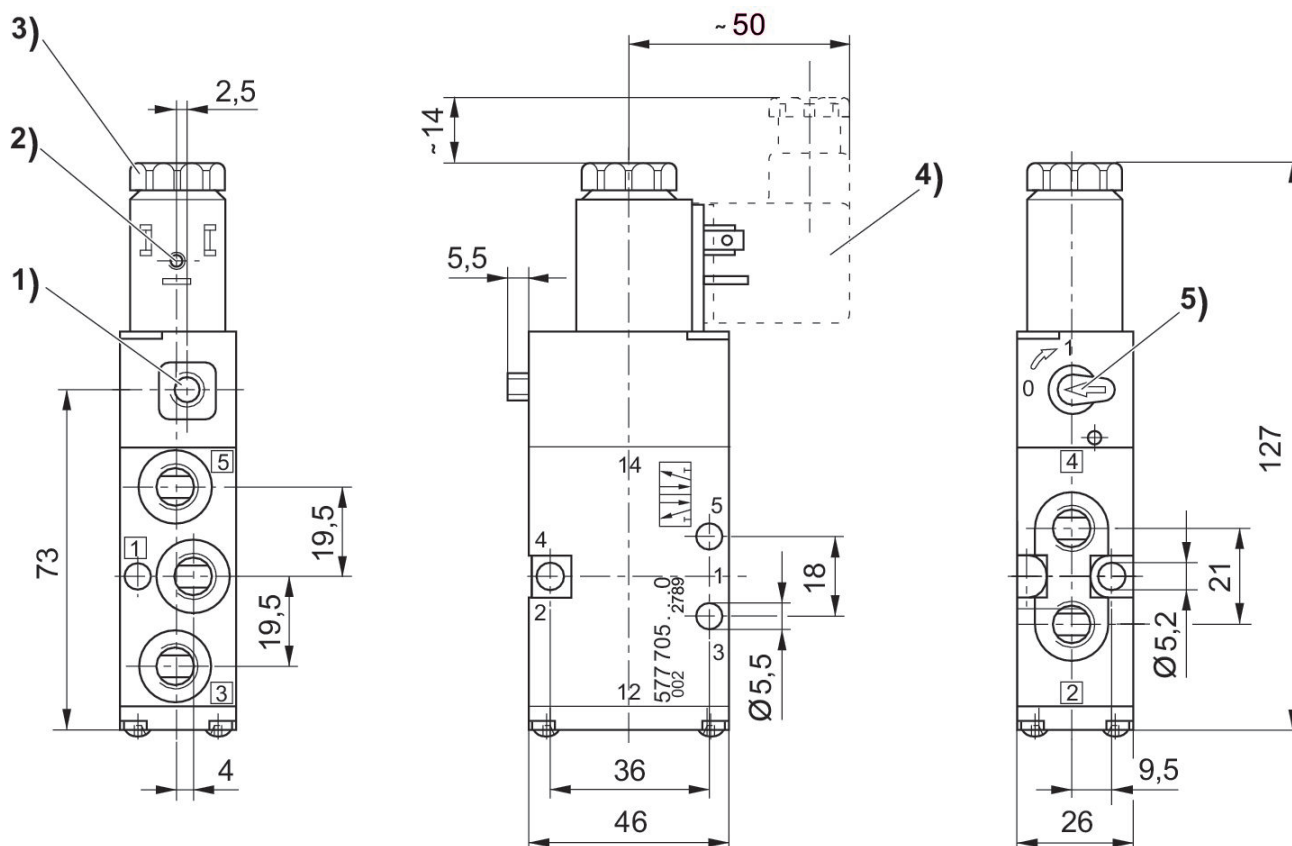
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Dimensions



- 1) Only with separate pilot control G 1/8
- 2) Coil can be rotated at 90° intervals
- 3) After removal of cap M5 internal thread
- 4) Valve plug connector can be plugged at 180° intervals
- 5) Manual override