

5/2-directional valve, Series CD07, single solenoid, G1/4, -25 °C cold-resistant

5776085302

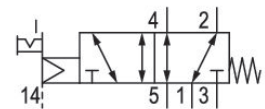
CD07

2025-06-02

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

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

Frame size

Valve type

Basic valve equipment

Switching principle

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically operated

CD07

Spool valve, positive overlapping

Basic valve without coil

5/2, with spring return

Single Solenoid

Soft seal

Pipe connection

with detent

Compressed air connection

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

G 1/4

according to ISO 228-1

G 1/4

G 1/4

G 1/4

with directional pilot air exhaust

G 1/8

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	-0.95 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
Electrical connection number of poles	3-pin
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Pilot	External
Pilot valve width	30 mm
Compatibility index	13 14
Duty cycle	100 %
Temperature resistance	-25 °C cold-resistant
Certificates	ATEX optional
ATEX	ATEX optional
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 ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	50 µm
Mounting on manifold strip	P-strip PRS strip

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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.

Nickel-plated armature guide (only suitable for DC variant), i.e. the base must not be equipped with AC coils.

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.

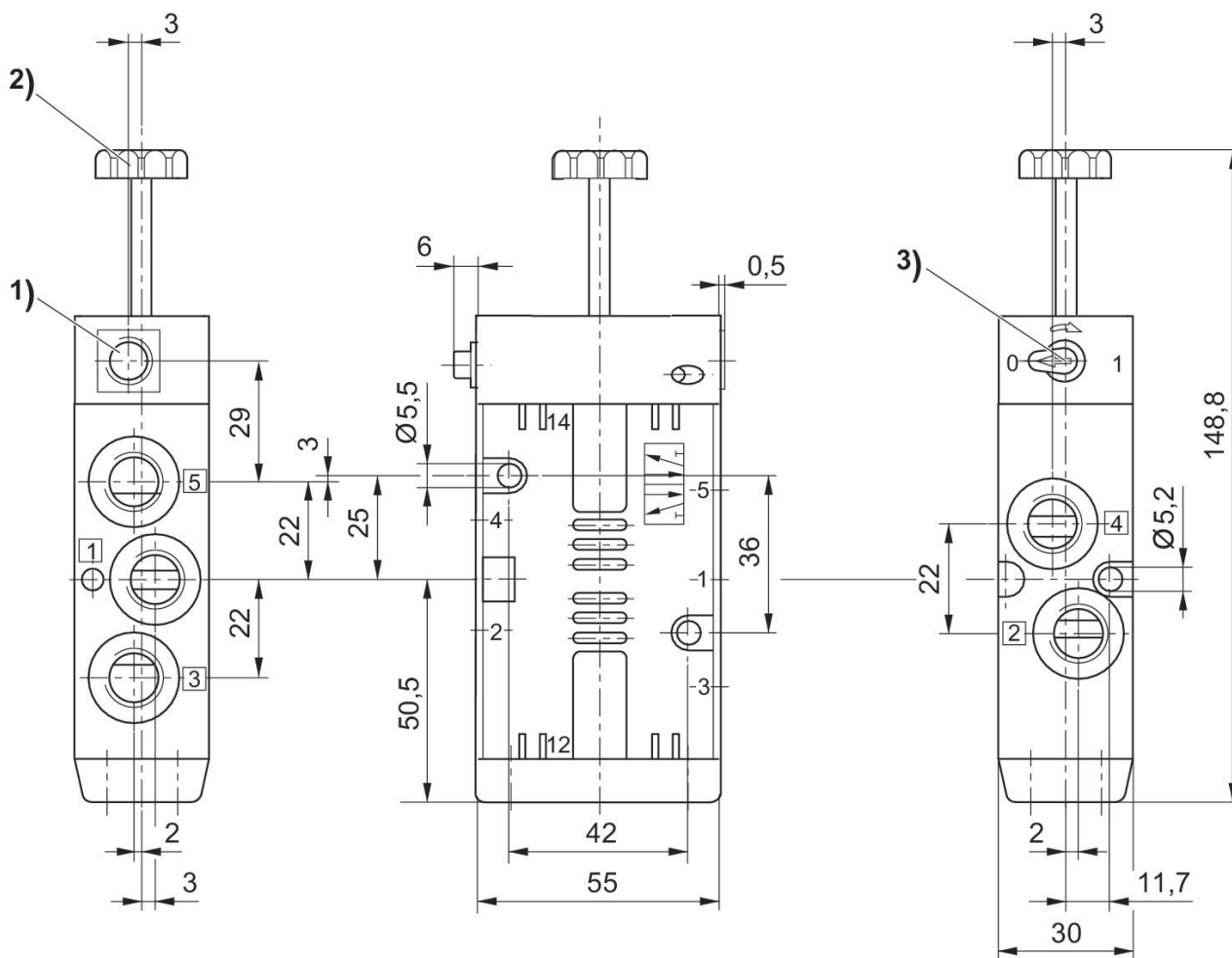
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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Dimensions in mm



- 1) Only with separate pilot control G 1/8
- 2) After removal of cap M 5 internal thread
- 3) Manual override