

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

5776075302

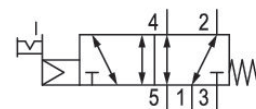
CD07

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

Industrial

Activation

Electrically operated

Frame size

CD07

Valve type

Spool valve, positive overlapping

Basic valve equipment

Basic valve without coil

Switching principle

5/2, with spring return

Actuating control

Single Solenoid

Sealing principle

Soft seal

Connection type

Pipe connection

Manual override

with detent

Compressed air connection

G 1/4

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

1200 l/min

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Nominal flow Qn 1 to 2	1200 l/min
Nominal flow Qn 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
Electrical connection number of poles	3-pin
Connector standard	EN 175301-803:2006
Reverse polarity protection	Protected against polarity reversal
Pilot	Internal
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
Material	
Housing material	Die cast zinc Polyamide fiber-glass reinforced

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Seal material Acrylonitrile butadiene rubber

Part No. 5776075302

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>).

