

3/2-directional valve, Series CD12, single solenoid

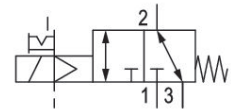
5724565280

CD12

2025-12-10

AVENTICS Series CD12 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.



Technical data

Industry

Industrial

Activation

Electrically

Valve type

Spool valve, positive overlapping

Switching principle

3/2, with spring return

Valve function

NC/NO

Sealing principle

Soft seal

Connection type

Pipe connection

Manual override

with detent

Compressed air connection type

Internal thread

Standard compressed air connection

according to ISO 228-1

Compressed air connection input

G 1/2

Compressed air connection output

G 1/2

Compressed air connection, exhaust

G 1/2

Pilot control exhaust

with directional pilot air exhaust

Compressed air connection pilot input

G 1/8

Compressed air connection pilot exhaust

M5

Nominal flow Q_n

4000 l/min

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Nominal flow Qn 1 to 2	4000 l/min
Nominal flow Qn 2 to 3	4000 l/min
Min. working pressure	-0.95 bar
Max. working pressure	16 bar
Min. control pressure	2 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
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Operational voltage AC at 50 Hz	230 V
Voltage tolerance AC 50 Hz	-20 % / +10 %
Operational voltage AC at 60 Hz	230 V
Voltage tolerance AC 60 Hz	-10 % / +20 %
Pilot	External
Coil width	30 mm
Pilot valve width	30 mm
Compatibility index	52
Holding power AC 50 Hz	4.4 VA
Holding power AC 60 Hz	3.5 VA
Switch-on power AC 50 Hz	6.9 VA
Switch-on power AC 60 Hz	6.2 VA
Duty cycle	100 %
Typ. switch-on time	34 ms
Typ. switch-off time	90 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 ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	50 µm

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Weight 0.85 kg

Material

Housing material	Aluminum Polyamide, fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber Polyurethane

Part No. 5724565280

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.

option valve: The input and output compressed air connections can be exchanged. The valve can thereby be used in the NC or NO operating mode.

*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

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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[illegible]

- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override
4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5