

5/2-directional valve, Series CD12, Single Air Pilot

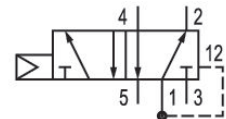
5725455202

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

Activation

Valve type

Basic valve equipment

Switching principle

Sealing principle

Connection type

Industrial

Electrically

Spool valve, positive overlapping

Basic valve without pilot valve

5/2, with air spring return

Soft seal

Pipe connection

Compressed air connection type

Standard compressed air connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Pilot control exhaust

Internal thread

according to ISO 228-1

G 1/2

G 1/2

G 1/2

with directional pilot air exhaust

Nominal flow Q_n

4100 l/min

Min. working pressure

2 bar

Max. working pressure

16 bar

5/2-directional valve, Series CD12, Single Air Pilot

5725455202

CD12

2025-12-10

Min. control pressure	2 bar
Max. control pressure	16 bar
Electrical connection type	Plug
Electrical connection size	EN 175301-803, form A
Electrical connection number of poles	3-pin

Pilot	Internal
Coil width	30 mm
Pilot valve width	30 mm

Duty cycle	100 %
------------	-------

ATEX	ATEX optional
Min. ambient temperature	-25 °C
Max. ambient temperature	70 °C
Min. medium temperature	-25 °C
Max. medium temperature	70 °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

Weight	0.85 kg
--------	---------

Material

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

Part No.	5725455202
----------	------------

5/2-directional valve, Series CD12, Single Air Pilot

5725455202

CD12

2025-12-10

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.

*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>).

5725455202

CD12

2025-12-10

Technical drawing of a 12V 100Ah battery, showing three views: front, side, and bottom.

Front View (Left): Shows the battery terminals (G1/8), a central vent, and two side vents. Dimensions include a total height of 59, a vent diameter of 1.5, and a terminal height of 8.

Side View (Top): Shows the battery profile with dimensions: total height 201.5, terminal height 28, and a main body height of 18. It also shows a width of 52 ± 0.2.

Bottom View (Bottom): Shows the battery base with dimensions: total width 74, main body width 68, and a base width of 56.5. It also shows a base height of 40 and a base diameter of Ø8.8.

Labels: The drawing includes labels 1 through 6, likely corresponding to specific components or features of the battery.

- 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