

5/2-directional valve, Series CD12, double solenoid

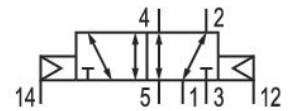
R412000244

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

Basic valve equipment

Basic valve without pilot valve

Switching principle

5/2, with air spring return

Sealing principle

Soft seal

Connection type

Pipe connection

Compressed air connection type

Internal thread

Compressed air connection input

M22x1,5

Compressed air connection output

M22x1,5

Compressed air connection, exhaust

M22x1,5

Pilot control exhaust

with directional pilot air exhaust

Compressed air connection pilot input

G 1/8

Nominal flow Q_n

4100 l/min

Min. working pressure

-0.95 bar

Max. working pressure

16 bar

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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
Connector standard	EN 175301-803:2006
Pilot	External
Coil width	30 mm
Pilot valve width	30 mm
Duty cycle	100 %
Temperature resistance	-25 °C cold-resistant
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	0.9 kg
Material	
Housing material	Aluminum Polyamide, fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber Polyurethane
Part No.	R412000244

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Technical information

*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>).

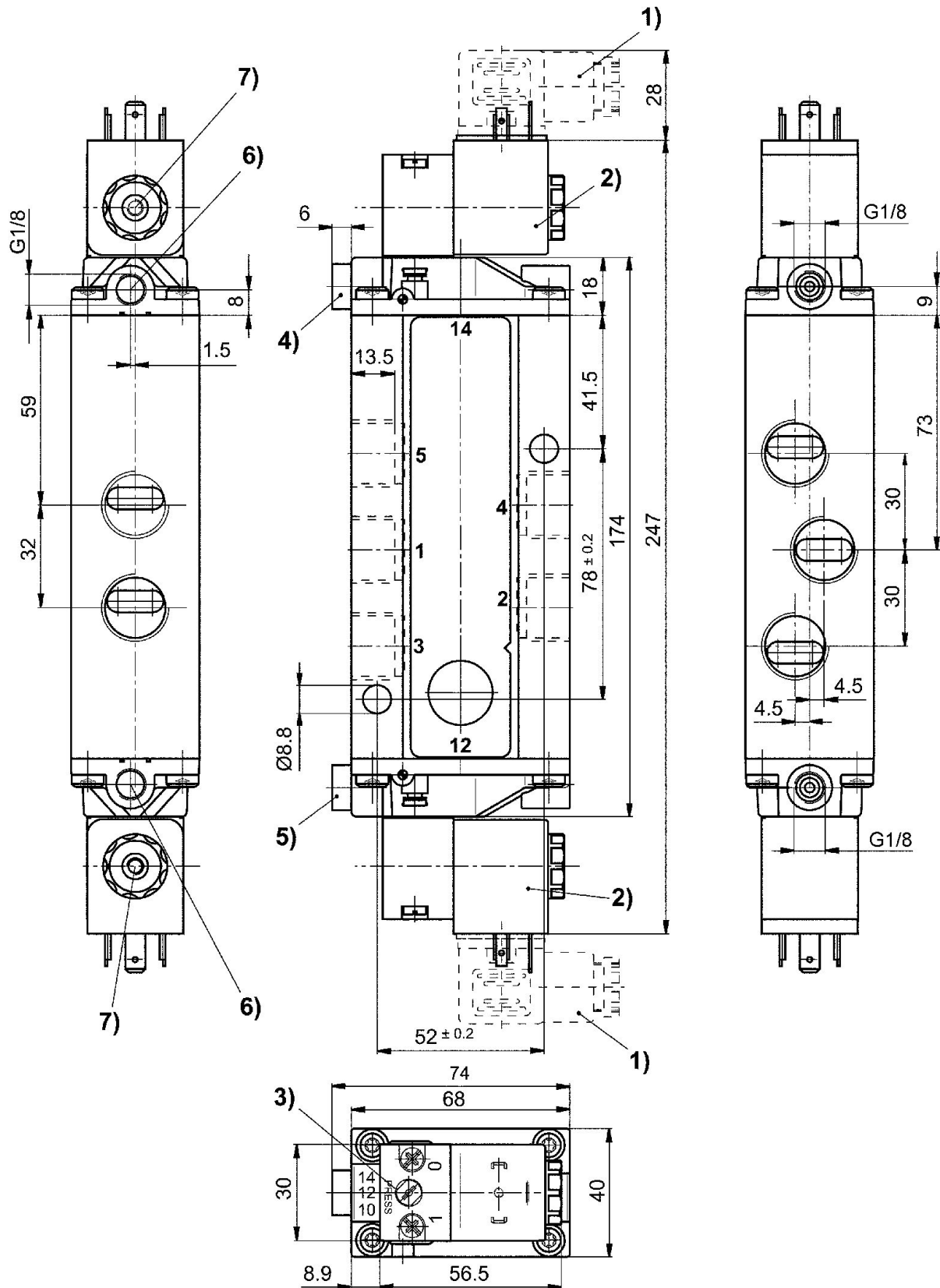
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Dimensions



- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override
4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5