

5/3-directional valve, Series CD07, double solenoid, G1/4, basic valve with base plate

R412011159

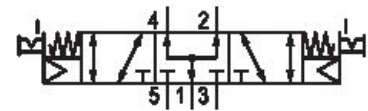
CD07

2025-06-05

- 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

Note

Frame size

Valve type

Basic valve equipment

Switching principle

Valve function

Actuating control

Sealing principle

Connection type

Manual override

Industrial

Electrically operated

Valves with Namur port as per VDI/VDE3845

CD07

Spool valve, positive overlapping

Basic valve with base plate

5/3, pressurized center

Pressurized Center

Double 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

G 1/4

according to ISO 228-1

G 1/4

Namur base plate

G 1/4

with directional pilot air exhaust

5/3-directional valve, Series CD07, double solenoid, G1/4, basic valve with base plate

CD07

R412011159

2025-06-05

Compressed air connection pilot exhaust	M5
Nominal flow Qn	900 l/min
Nominal flow Qn 1 to 2	960 l/min
Nominal flow Qn 2 to 3	900 l/min
Min. working pressure	3 bar
Max. working 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 %
Standards	NAMUR
Certificates	ATEX optional
ATEX	ATEX optional
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Min. medium temperature	0 °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

Material

Housing material	Die cast zinc Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber

5/3-directional valve, Series CD07, double solenoid, G1/4, basic valve with base plate

R412011159

CD07

2025-06-05

Part No.

R412011159

Technical information

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

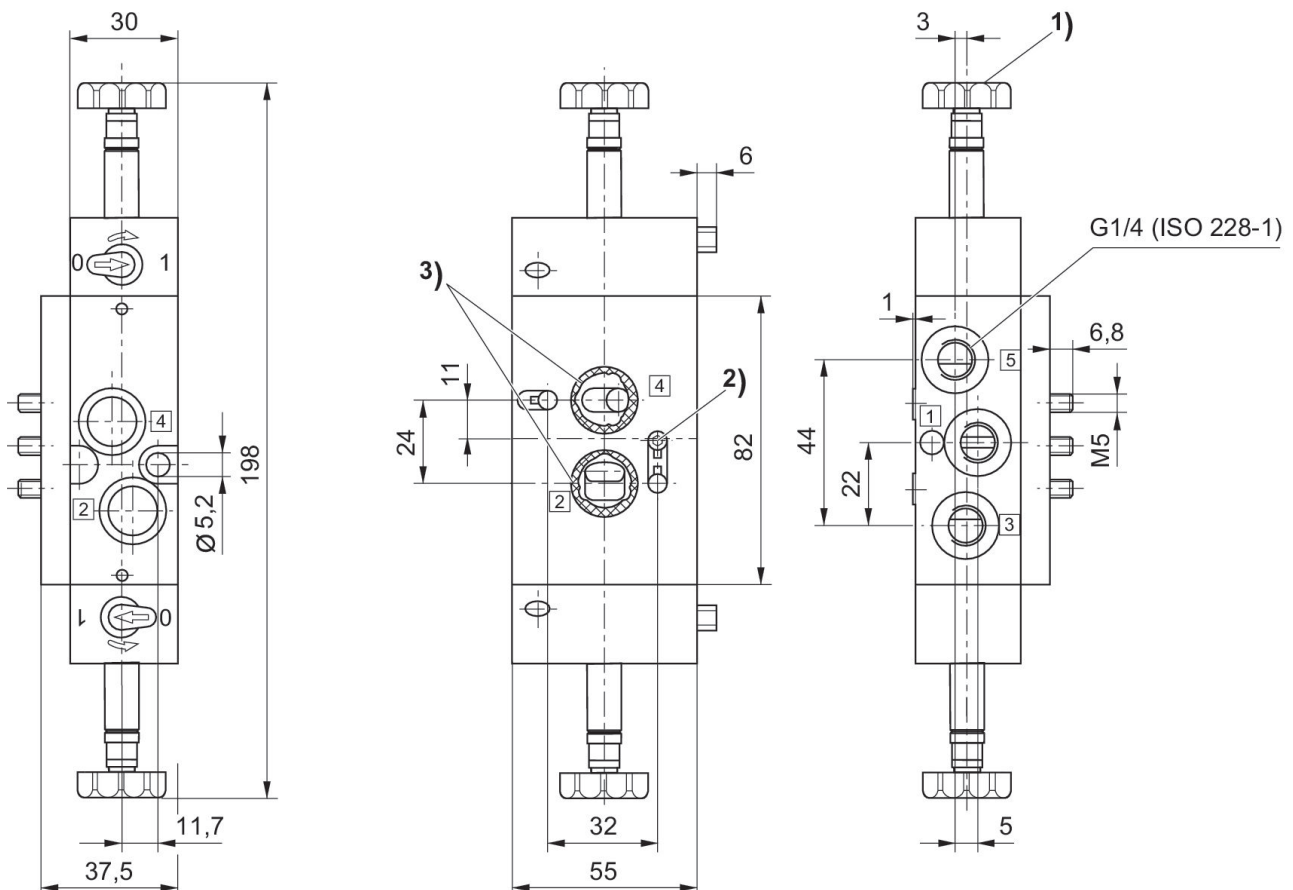
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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>).

Dimensions in mm



- 1) After removal of cap M 5 internal thread
- 2) Threaded pin DIN 914 M5 x 20
- 3) O-ring 16 x 2 (included)
- 4) cylinder screw M5x40 (included in scope of delivery)