

3/2-directional valve, Series CD07, Single Air Pilot

5710400090

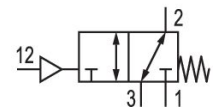
CD07

2026-02-17

AVENTICS Series CD07 Directional valves

$Q_n = 900 \dots 1400 \text{ l/min}$

- Durable design
- Assembly on base plate
- Suitable for extreme ambient temperatures
- ATEX version available



Technical data

Industry

Industrial

Activation

Pneumatically operated

Frame size

CD07

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

Compressed air connection

M14x1,5

Compressed air connection input

M14x1,5

Compressed air connection output

M14x1,5

Compressed air connection, exhaust

M14x1,5

Compressed air connection pilot exhaust

M10x1

Nominal flow Q_n

1400 l/min

Min. working pressure

-0.95 bar

Max. working pressure

10 bar

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Min. control pressure	4 bar
Max. control pressure	10 bar
Certificates	Suitable for ATEX
ATEX	Suitable for ATEX
Min. ambient temperature	-35 °C
Max. ambient temperature	80 °C
Min. medium temperature	-35 °C
Max. medium temperature	80 °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	0.4 kg

Material

Housing material	Die cast zinc
Seal material	Acrylonitrile butadiene rubber
Part No.	5710400090

Technical information

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.

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>).

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Technical drawing of a three-phase motor, showing three views: front, top, and side. The drawing includes dimensions and part numbers for various components.

Front View (Left):

- Overall width: 42
- Overall height: 87
- Mounting feet: 2 (top), 3 (bottom)
- Terminal box: 1 (top), 2 (bottom)
- Terminal box mounting: 3 (top), 1 (bottom)
- Terminal box mounting dimensions: 7 (top), 22 (bottom)

Top View (Middle):

- Overall width: 55
- Overall height: 36
- Mounting feet: 12 (10) (top), 10 (12) (bottom)
- Terminal box: 2 (top), 1 (3) (bottom)
- Terminal box mounting: 1 (3) (top), 2 (bottom)
- Terminal box mounting dimensions: 18 (top), 18 (bottom)
- Terminal box mounting diameter: $\varnothing 5,5$
- Terminal box mounting part numbers: 1) M10x1, 2) G1/8

Side View (Right):

- Overall width: 30
- Overall height: 87
- Mounting feet: 2 (top), 3 (bottom)
- Terminal box: 1 (top), 2 (bottom)
- Terminal box mounting: 3 (top), 1 (bottom)
- Terminal box mounting dimensions: 7 (top), 22 (bottom)