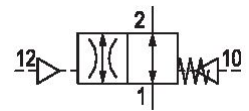


AVENTICS Series CD07 Directional valves

Q_n = 900 ... 1400 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

2/2, with spring return

Valve function

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 pilot input

M10x1

M16x1

Nominal flow Q_n

1400 l/min

Nominal flow Q_n 1 to 2

1400 l/min

Min. working pressure

-0.95 bar

Max. working pressure	10 bar
Min. control pressure	2.5 bar
Max. control pressure	10 bar
Temperature resistance	-25 °C cold-resistant
Certificates	Suitable for ATEX
ATEX	Suitable for ATEX
Min. ambient temperature	-25 °C
Max. ambient temperature	80 °C
Min. medium temperature	-25 °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.	5710409000

Technical information

Control pressure $P_z - P_y = 2,5 +0,3/-07$ bar

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

Nominal flow Q_n 1 --> 2 can be throttled up to 100 l/min.+

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>).

5710409000

2026-01-07

Technical drawing of a mechanical part, showing three views: front view, top view, and side view. The drawing includes dimensions and labels for various features.

Front View (Left):

- Overall height: 72,5
- Feature 1: A circular feature with a central hole, labeled "1)".
- Feature 2: A small rectangular feature, labeled "2".

Top View (Middle):

- Overall width: 55
- Overall height: 79,5
- Central circular feature: Labeled "Ø22".
- Top circular feature: Labeled "Ø17".
- Top rectangular feature: Labeled "M10x1".
- Bottom rectangular feature: Labeled "M16x1,5".
- Left side features: Labeled "[12]" and "[10]".
- Right side features: Labeled "[12]" and "[10]".
- Right side circular feature: Labeled "Ø5,5".
- Right side rectangular feature: Labeled "18".
- Right side circular feature: Labeled "3" and "[1]".
- Right side rectangular feature: Labeled "1" and "[3]".
- Right side circular feature: Labeled "1" and "[3]".
- Right side rectangular feature: Labeled "Y".
- Right side circular feature: Labeled "Z".

Side View (Right):

- Overall height: 105
- Overall width: 30
- Central circular feature: Labeled "Ø5,5".

1) Blanking screw