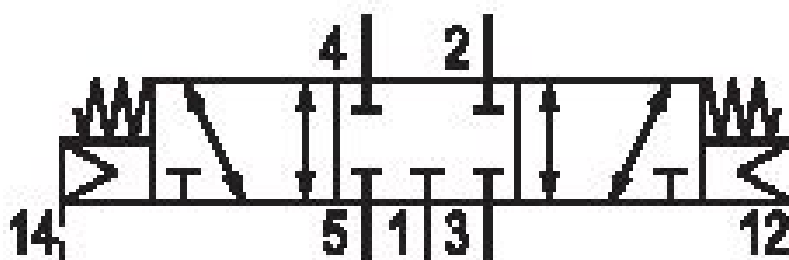


# 5/3-directional valve, Series CD12

R412000151

General series information  
Series CD12

- 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

Nominal flow Q<sub>n</sub>  
3800 l/min

Switching principle  
5/3

Version  
Closed Center

Compressed air connection output  
G 1/2

Working pressure min.  
-0.95 bar

Working pressure max  
16 bar

Electrical connection type  
Plug

Electrical connection size  
EN 175301-803, form A

Electrical connection number of poles  
3-pin

Actuating control  
Double Solenoid

Sealing principle  
Soft Seal

Pilot  
External

**ATEX**

ATEX optional

**Pilot valve width**

30 mm

**Valve type**

Spool valve, positive overlapping

**basic valve with electrical connector**

Basic valve without pilot valve

**Control pressure min.**

3 bar

**Control pressure max.**

16 bar

**Min. ambient temperature**

-15 °C

**Max. ambient temperature**

70 °C

**Min. medium temperature**

-15 °C

**Standard compressed air connection**

according to ISO 228-1

**Compressed air connection input**

G 1/2

**Compressed air connection, exhaust**

G 1/2

**Compressed air connection pilot input**

G 1/8

**Duty cycle**

100 %

**Pilot valve width**

30 mm

**Connector standard**

EN 175301-803:2006

**Housing material**

Aluminum

Polyamide fiber-glass reinforced

**Seal material**

Acrylonitrile butadiene rubber

**Connection type**

Pipe connection

**Return**

With spring return

**Max. medium temperature**

70 °C

**Medium**

Compressed air

**Max. particle size**

50 µm

**Oil content of compressed air min.**

0 mg/m<sup>3</sup>

**Oil content of compressed air max.**

1 mg/m<sup>3</sup>

**Pilot control exhaust**

with directional pilot air exhaust

**Nominal flow Qn 1 to 2**

3800 l/min

**Nominal flow Qn 2 to 3**

3800 l/min

**Weight**

1 kg

Polyurethane

**Part No.**

R412000151

## 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.

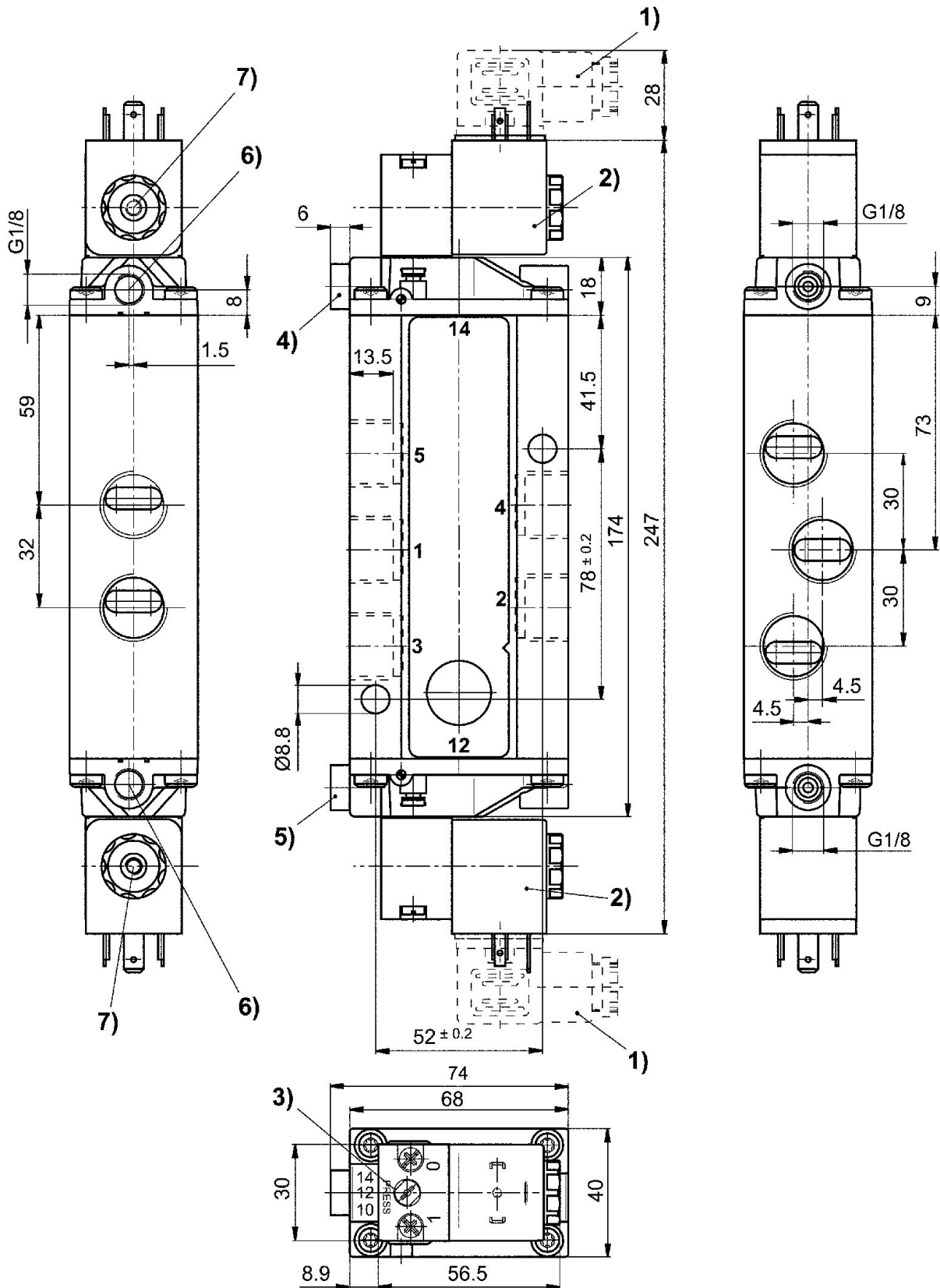
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under 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



- 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