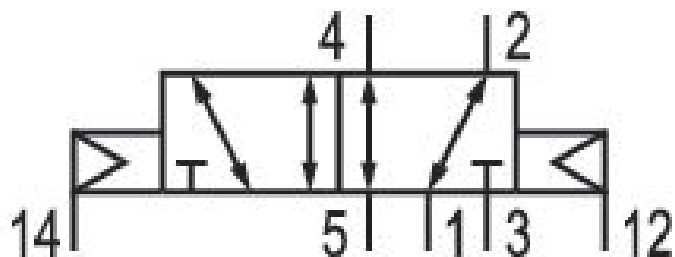


# 5/2-directional valve, Series CD12

R412000244

## 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>  
4100 l/min

Switching principle  
5/2

Compressed air connection output  
M22x1,5

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

**Connection type**

Pipe connection

**Return**

with air spring return

**Temperature resistance**

-25 °C cold-resistant

**Control pressure min.**

2 bar

**Control pressure max.**

16 bar

**Min. ambient temperature**

-25 °C

**Max. ambient temperature**

70 °C

**Min. medium temperature**

-25 °C

**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>

**Compressed air connection input**

M22x1,5

**Compressed air connection, exhaust**

M22x1,5

**Compressed air connection pilot input**

G 1/8

**Pilot control exhaust**

with directional pilot air exhaust

**Duty cycle**

100 %

**Pilot valve width**

30 mm

**Connector standard**

EN 175301-803:2006

**Weight**

0.9 kg

**Housing material**

Aluminum

Polyamide fiber-glass reinforced

**Seal material**

Acrylonitrile butadiene rubber

Polyurethane

**Part No.**

R412000244

## 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.

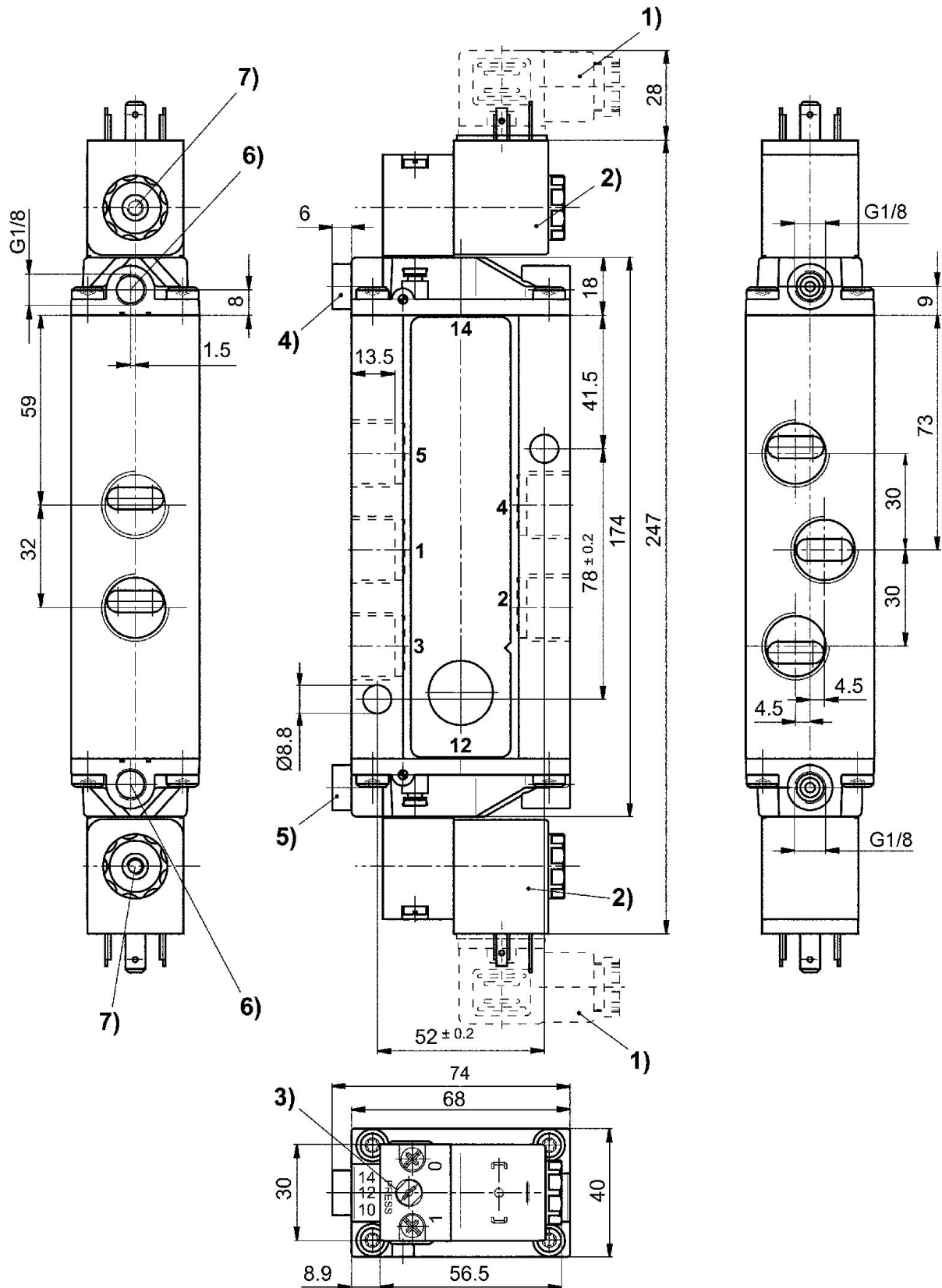
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C 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