

5/3-directional valve, Series CD04

R412013020

Series

CD04

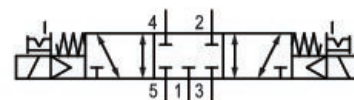
2025-10-21

Series CD04

Q_n max. 900 l/min

3/2, 5/2, 5/3 spool valves with metal housing

For demanding environments



Technical data

Industry

Activation

Valve type

Switching principle

Sealing principle

Connection type

Manual override

Industrial

Electrically

Spool valve, positive overlapping

5/3, closed center

Soft seal

Pipe connection

with detent

Compressed air connection type

Standard compressed air connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Compressed air connection pilot exhaust

Internal thread

according to ANSI B1.20.3

1/8-27 PTF

1/8-27 PTF

1/8-27 PTF

M5

Nominal flow Q_n

900 l/min

Nominal flow Q_n 1 to 2

900 l/min

Nominal flow Q_n 2 to 3

900 l/min

5/3-directional valve, Series CD04

R412013020

Series

CD04

2025-10-21

Min. working pressure	3.5 bar
Max. working pressure	10 bar
Min. control pressure	3.5 bar
Max. control pressure	10 bar
Electrical connection type	Plug
Electrical connection size	EN 175301-803, form B
Electrical connection number of poles	3-pin
Connector standard	EN 175301-803:2006
Protection class with connection	IP65
Operational voltage AC at 50 Hz	110 V
Voltage tolerance AC 50 Hz	-20 % / +10 %
Operational voltage AC at 60 Hz	110 V
Voltage tolerance AC 60 Hz	-10 % / +20 %
Pilot	Internal
Coil width	22 mm
Pilot valve width	26 mm
Compatibility index	44
Holding power AC 50 Hz	8.3 VA
Holding power AC 60 Hz	7.2 VA
Switch-on power AC 50 Hz	10.8 VA
Switch-on power AC 60 Hz	9.5 VA
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	27 ms
Temperature resistance	-15 °C cold-resistant
Min. ambient temperature	-15 °C
Max. ambient temperature	50 °C
Min. medium temperature	-15 °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
Mounting on manifold strip	P-strip

5/3-directional valve, Series CD04

R412013020

Series

CD04

2025-10-21

Weight 0.49 kg

Material

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

Part No. R412013020

Technical information

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>).

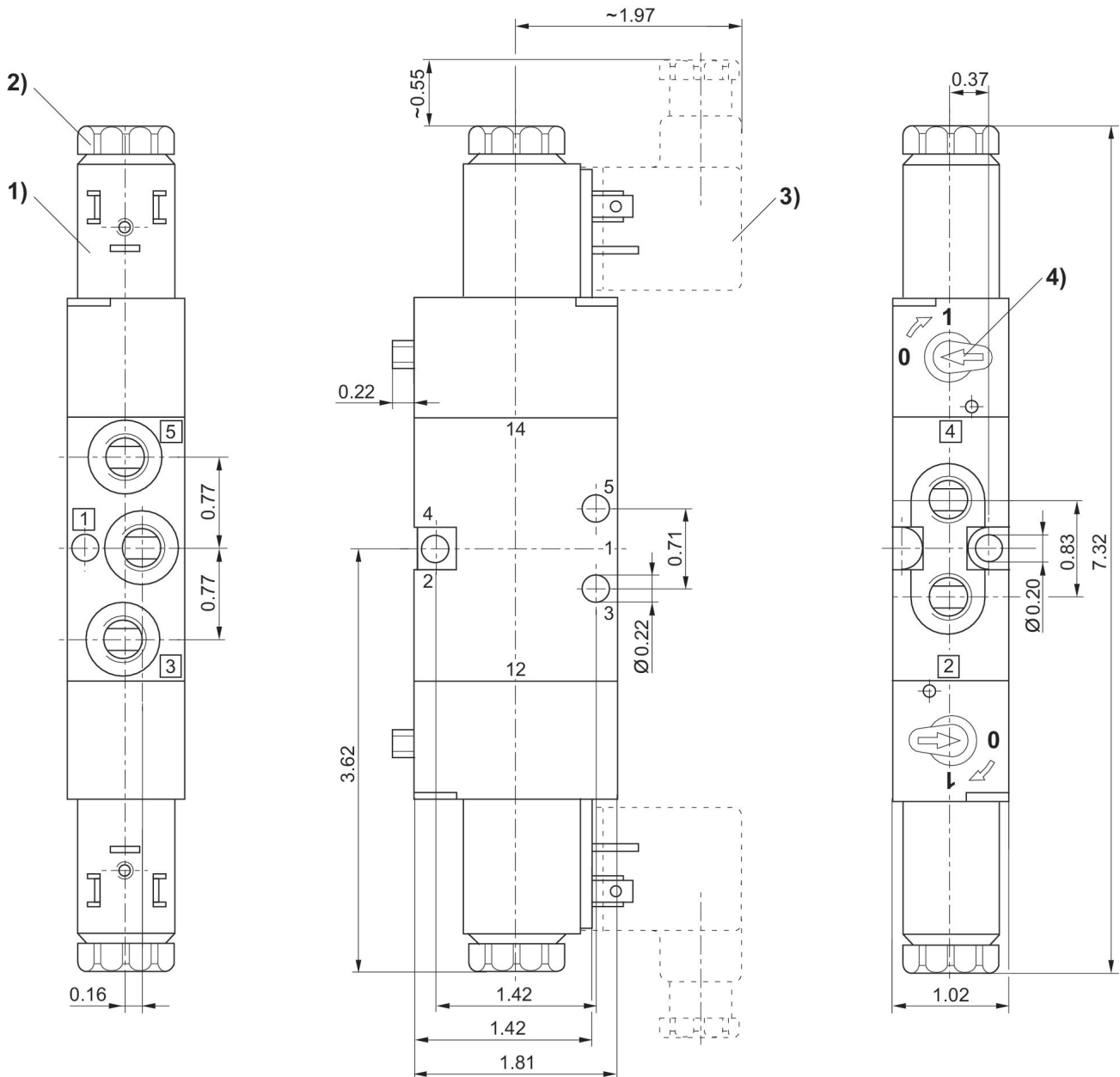
5/3-directional valve, Series CD04

R412013020

Series
CD04

2025-10-21

Dimensions in inches



- 1) Coil can be rotated at 90° intervals
- 2) After removal of cap M5 internal thread
- 3) Valve plug connector can be plugged at 180° intervals
- 4) Manual override