

3/2-directional valve, Series CD04, single solenoid

R412012696

Series
CD04

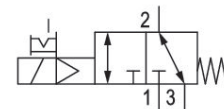
2025-10-21

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

Valve function

Sealing principle

Connection type

Manual override

Industrial

Electrically

Spool valve, positive overlapping

3/2, with spring return

NC

NO

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

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M5

Nominal flow Q_n

900 l/min

Nominal flow Q_n 1 to 2

900 l/min

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Nominal flow Qn 2 to 3	900 l/min
Min. working pressure	3 bar
Max. working pressure	10 bar
Min. control pressure	3 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	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %
Pilot	Internal
Coil width	22 mm
Pilot valve width	26 mm
Compatibility index	44
Power consumption DC	4.8 W
Duty cycle	100 %
Typ. switch-on time	13 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
Weight	0.32 kg

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Material

Housing material

Die cast zinc
Polyamide, fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Part No.

R412012696

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.

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 mechanical assembly, showing three views: front, top, and side. The drawing includes dimensions in millimeters and labels for various components and features.

Front View (Left):

- Overall height: 1.44
- Overall width: 0.16
- Bottom flange width: 0.08
- Top flange width: 0.69
- Central hole diameter: $\varnothing 0.22$
- Labels: 1, 2, 3, [1], [3]

Top View (Middle):

- Overall width: 1.81
- Overall height: 1.06
- Central hole diameter: $\varnothing 0.22$
- Labels: 1, 2, 3, [1], [2], [3], [10], [12], 10

Side View (Right):

- Overall height: 4.33
- Overall width: 1.02
- Central hole diameter: $\varnothing 0.22$
- Labels: 1, 2, 3, 4

Dimensions and Features:

- Top flange diameter: ~ 1.97
- Top flange thickness: ~ 0.55
- Top flange width: 0.22
- Top flange height: 0.35
- Top flange width: 0.71
- Top flange height: 0.35
- Top flange width: 1.42
- Top flange height: 1.06
- Top flange width: 1.02
- Top flange height: 1.06

- 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