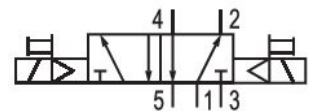
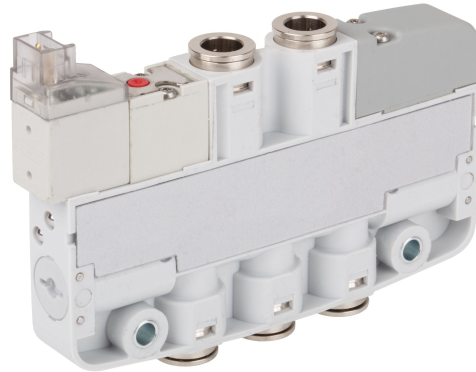


AVENTICS Series LS04 Directional valves

The AVENTICS Series LS04 are lightweight spool valves and save space with their polyamide and aluminium housing. The valves are suitable for direct mounting onto moving machines and system parts.



Technical data

Industry	Industrial
Activation	Electrically
Valve type	Spool valve, positive overlapping
Switching principle	5/2, with spring return
Actuating control	Single Solenoid
Sealing principle	Soft seal
Connection type	Pipe connection
Manual override	without detent
Compressed air connection type	Push-in fitting
Compressed air connection input	Ø 6
Compressed air connection output	Ø 6
Compressed air connection, exhaust	Ø 6
Nominal flow Q _n	310 l/min
Flow conductance b	0.27
Flow conductance C	1.5 l/(s*bar)
Min. working pressure	2 bar

5/2-directional valve, Series LS04-AF, 2-pin

R422103568

Series LS04

2025-10-23

Max. working pressure	7 bar
Electrical connection type	Plug
Electrical connection size	Industrial plug connector
Electrical connection number of poles	2-pin
Protection class acc. to DIN EN 61140	Class III
Protection class with connection	IP50
Protective circuit	Z-diode
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %

Pilot	Internal
LED status display	Yellow
Power consumption DC	0.8 W

Duty cycle	100 %
Typ. switch-on time	9 ms
Typ. switch-off time	9 ms
Generic emission standard in accordance with	EN 61000-6-4:2002
Generic immunity standard in accordance with	IEC 61000-6-2:2005

Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °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	5 mg/m ³
Max. particle size	5 µm

Mounting screws	M3
Mounting screw tightening torque	0.5 Nm
Weight	0.063 kg

Material

Housing material	Polyoxymethylene
Seal material	Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber

Polyurethane

Part No.

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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>).

A duty cycle of 100 percent is only valid for single valves.

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Technical drawing of the R422003XXX terminal block, showing three views: top, front, and side.

Top View Dimensions:

- Terminal spacing: 14,3
- Terminal diameter: 14,3
- Block width: 41,05
- Block length: 82,1

Front View Dimensions:

- Overall height: 53
- Terminal height: 38,2
- Terminal width: 9,8
- Terminal spacing: 30,2
- Terminal diameter: 5,5
- Terminal width: 2,95
- Terminal spacing: 25
- Terminal width: 50
- Terminal diameter: Ø 3,4 (x2)

Side View Dimensions:

- Terminal spacing: 15,2
- Terminal width: 2,54
- Terminal diameter: 0,635

Assembly Information:

- Torque: $0,5 \pm 0,1$ Nm
- Standard: DIN IEC 60603-8