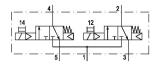
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#### **AVENTICS Series LS04 Directional valves**

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

Switching principle 2x 3/2 NC/NC, with spring return

Valve function NC/NC
Sealing principle Soft seal

Connection type Pipe connection
Manual override without detent

Compressed air connection input Ø 4
Compressed air connection output Ø 4
Compressed air connection, exhaust Ø 4

Nominal flow Qn 180 I/min Flow conductance b 0.4

Flow conductance C 0.8 l/(s\*bar)

Min. working pressure 3.5 bar Max. working pressure 7 bar

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Electrical connection type Plug
Electrical connection size M8
Electrical connection number of poles 3-pin

Connector standard DIN EN 60947-5-2

Protection class acc. to DIN EN 61140 Class III
Protection class with connection IP65
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 12 ms
Typ. switch-off time 15 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/m³ Max. oil content of compressed air 5 mg/m³ Max. particle size 5  $\mu m$ 

Mounting screws M3

Mounting screw tightening torque 0.5 Nm

Weight 0.064 kg

#### Material

Housing material Polyoxymethylene

Seal material Acrylonitrile butadiene rubber

Hydrogenated nitrile butadiene rubber

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Polyurethane

Part No. R422103581

#### 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.

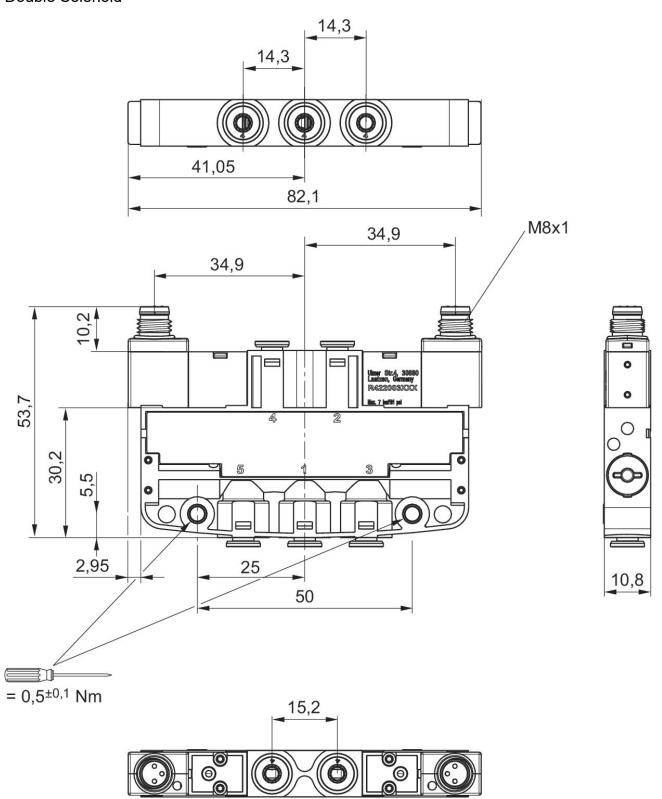
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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

#### **Dimensions**

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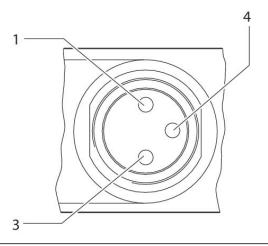
#### Double Solenoid



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# PIN assignment for valve plug connectors

3-pin



<sup>1)</sup> Pin not assigned 3) 0 V 4) 24 V Note: Bi-polar protective circuit to prevent overvoltage