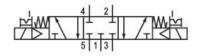
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AVENTICS Series LS04 Directional valves

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, positive overlapping

Switching principle 5/3, closed center Valve function Closed Center Actuating control Double Solenoid

Sealing principle Soft seal

Connection type Pipe connection
Manual override with detent

Compressed air connection input Ø 6

Compressed air connection output Ø 6

Compressed air connection, exhaust Ø 6

Nominal flow Qn 270 I/min Flow conductance b 0.3

Flow conductance C 1.3 l/(s*bar)

Min. working pressure 3 bar

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| Max. working pressure | 7 bar |
|--|---|
| Electrical connection | 2 |
| 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 % |
| | |
| 5 11 / | |
| Pilot | Internal |
| Pilot LED status display | Internal Yellow |
| | into in a |
| LED status display | Yellow |
| LED status display Power consumption DC | Yellow |
| LED status display | Yellow 0.8 W |
| LED status display Power consumption DC Duty cycle | Yellow 0.8 W |
| LED status display Power consumption DC Duty cycle Typ. switch-on time | Yellow 0.8 W 100 % 10 ms |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with Generic immunity standard in accordance with | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 IEC 61000-6-2:2005 |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with Generic immunity standard in accordance with Min. ambient temperature | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 IEC 61000-6-2:2005 |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with Generic immunity standard in accordance with Min. ambient temperature Max. ambient temperature | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 IEC 61000-6-2:2005 -10 °C 50 °C |
| LED status display Power consumption DC Duty cycle Typ. switch-on time Generic emission standard in accordance with Generic immunity standard in accordance with Min. ambient temperature Max. ambient temperature Min. medium temperature | Yellow 0.8 W 100 % 10 ms EN 61000-6-4:2002 IEC 61000-6-2:2005 -10 °C 50 °C -10 °C |

0 mg/m³ Min. oil content of compressed air Max. oil content of compressed air 5 mg/m³ Max. particle size 5 µm

Mounting screws М3 Mounting screw tightening torque 0.5 Nm Weight 0.063 kg

Material

Housing material Polyoxymethylene

Acrylonitrile butadiene rubber Seal material

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Hydrogenated nitrile butadiene rubber

Polyurethane

Part No. R422103847

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.

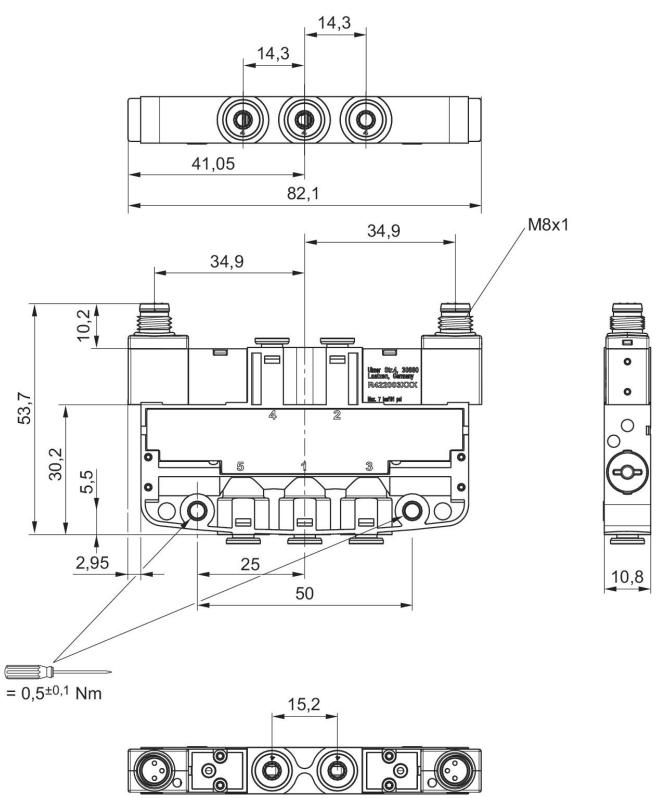
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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

Dimensions

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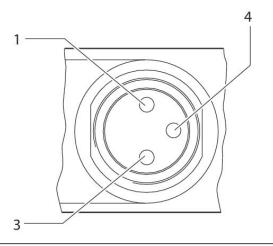
Double Solenoid



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PIN assignment for valve plug connectors

3-pin



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