5/2 directional valve, series LS04-PD

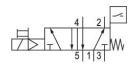
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- · Compact and lightweight
- · Fast switching possible
- · Easy to integrate
- Suitable for moving applications

Series LS04

Qn max. [[310] l/min] 2x3/2, 5/2, 5/3 spool valves with plastic housing





Series LS04

Technical data

Industry Industrial Activation Electrically

Note with position detection

Valve type Spool valve, positive overlapping

Switching principle 5/2, with spring return Actuating control Double Solenoid

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 0.3

Flow conductance C 0.8 l/(s*bar)

Min. working pressure 3 bar

5/2 directional valve, series LS04-PD

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Max. working pressure 7 bar

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

Typ. switch-on time 10 ms
Typ. switch-off time 22 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 μ m

Mounting screws M3

Mounting screw tightening torque 0.5 Nm

Weight 0.053 kg

Type sensor electronic PNP, with LED

Sensor port size M8
Sensor number of poles 3-pin

Material

Housing material Polyoxymethylene

Series LS04

5/2 directional valve, series LS04-PD

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Seal material Acrylonitrile butadiene rubber

Hydrogenated nitrile butadiene rubber

Series LS04

Polyurethane

Part No. R422005156

Technical information

A duty cycle of 100% is only valid for valves mounted separately.

If the solenoid valve is switched off, the flow direction is from connection 4 to 5, 1 to 2. The sensor output signal is high and the red LED is illuminated. The maximum sensor current is 12 mA.

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

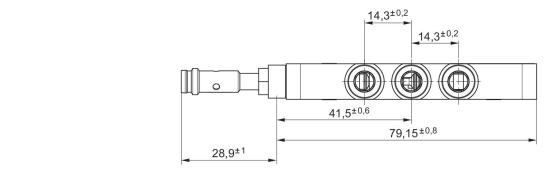
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

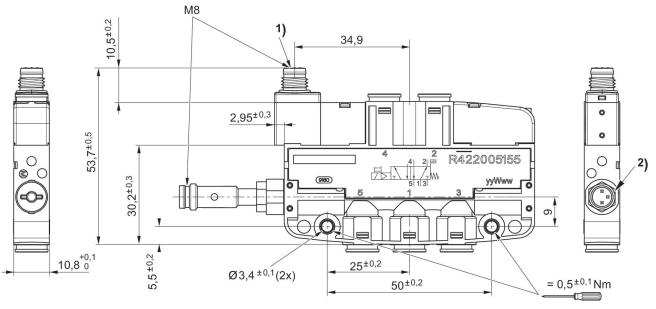
The oil content of compressed air must remain constant during the life cycle.

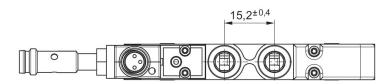
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

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Dimensions



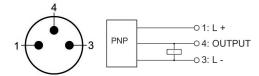




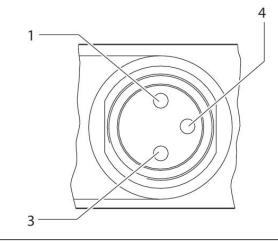
¹⁾ Valve plug connector M8 2) Sensor plug M8, 3-pin

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PIN assignment sensor, plug M8



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