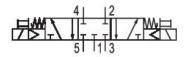
5/3-directional valve, Series 521

Series 521

The AVENTICS Series 521 is a line of solenoid airoperated, mini-spool valves that are ideal for piloting pneumatic cylinders. The valves have high-quality coils resistant to heat and moisture and suitable for high ambient temperatures and harsh environments. They can be mounted on joinable subbases for manifold applications. The AVENTICS Series 521 valves are suitable for automotive, case packing, packaging, and tire manufacturing applications.





Technical data Industry Activation Valve type Switching principle Valve function Sealing principle Connection type Manual override

Compressed air connection input Compressed air connection output

Nominal flow Qn

Min. working pressure Max. working pressure Min. control pressure Max. control pressure Industrial Electrically Spool valve 5/3, closed center Closed Center Soft seal Pipe connection without detent

G 1/4 G 1/4

1050 l/min

1.5 bar 8 bar 1.5 bar 8 bar



52100009

Electrical connection type Electrical connection size Connector standard Protection class with connection Operational voltage	Plug EN 175301-803, form C EN 175301-803 IP65 24 V DC
Pilot Pilot valve width	Internal 22 mm
Power consumption DC	1.6 W
Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	50 ms
Min. ambient temperature	5 °C
Max. ambient 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 µm
Mounting screws	M4
Weight	0.21 kg

Material

Housing material Seal material Material threaded bushing Material front plate Part No. Aluminum, anodized Nitrile butadiene rubber Aluminum Polyoxymethylene 52100009



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.

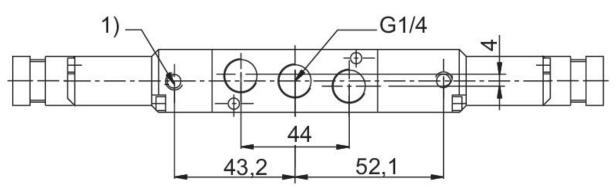
The oil content of compressed air must remain constant during the life cycle.

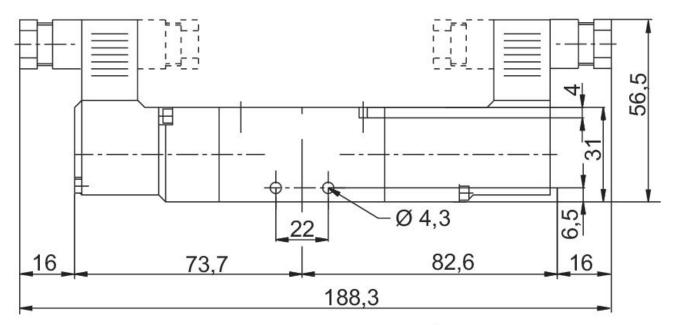
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

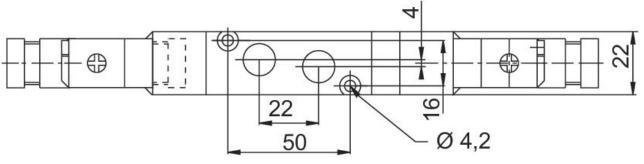


52100009

Dimensions







1) Pilot Exhaust

