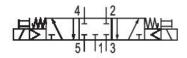
Series 519

The AVENTICS Series 519 is a line of air-operated minispool valves that are ideal for piloting pneumatic cylinders. The valves are suitable for automotive, case packing, packaging, and tire manufacturing applications.





Technical data Industry Activation Valve type Switching principle Valve function Actuating control 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 Double Solenoid Soft seal Pipe connection without detent

M5 M5

175 l/min

1.5 bar 8 bar 1.5 bar 8 bar



51900010

Electrical connection type	Plug
Electrical connection size	EN 175301-803, form C
Connector standard	EN 175301-803
Protection class with connection	IP65
Operational voltage	24 V AC
Operational voltage AC at 50 Hz	24 V
Pilot	Internal
Pilot valve width	15 mm
Switch-on power AC 50 Hz	2 VA
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 Weight

Material

Housing material Seal material Material threaded bushing Material front plate Part No. Aluminum, anodized Nitrile butadiene rubber Aluminum Polyoxymethylene 51900010

M2.5 with slot

0.14 kg



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.

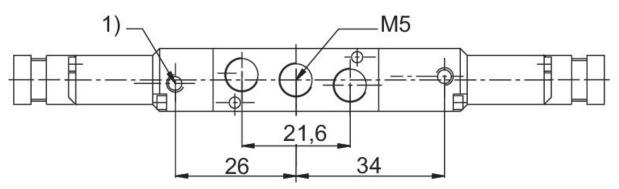
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

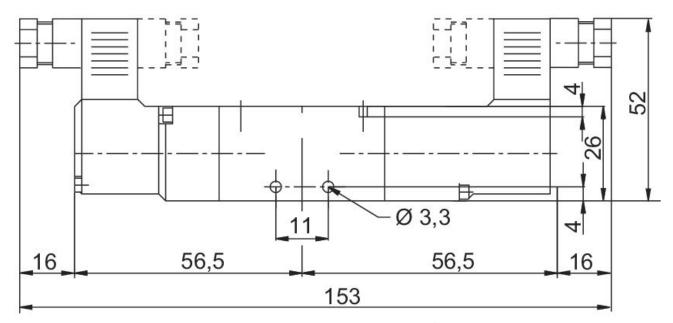


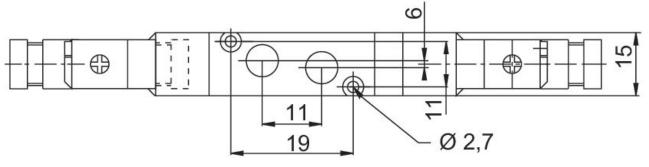
5/3-directional valve, Series 519

51900010

Dimensions







1) Pilot Exhaust

