

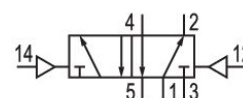
5/2-directional valve, Series 519, with air spring return

51900078

2025-10-15

AVENTICS Series 519 Mini-Spool Valves

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



Technical data

Industry	Industrial
Activation	Pneumatically
Valve type	Spool valve
Switching principle	5/2, double air pilot
Sealing principle	Soft seal
Connection type	Pipe connection
Compressed air connection input	M5
Compressed air connection output	M5
Nominal flow Qn	175 l/min
Min. working pressure	0 bar
Max. working pressure	8 bar
Min. control pressure	1.5 bar
Max. control pressure	8 bar
Pilot	External
Min. ambient temperature	5 °C
Max. ambient temperature	50 °C

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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 µm
Mounting screw	M3
Weight	0.05 kg

Material

Housing material	Aluminum, anodized
Seal material	Nitrile butadiene rubber
Material, front cover	Polyoxymethylene
Material threaded bushing	Aluminum
Part No.	51900078

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>).

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Dimensions

