

5/2-directional valve, Series 520, with spring return

Series 520

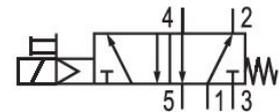
2024-09-19

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- Plastic G1/8-tapped body with NBR seals for extended service life
- Handles lubricated or non-lubricated air or neutral gas
- Ambient temperature range 5° C to 50° C
- Satisfies all relevant EU Directives

Series 520

The AVENTICS Series 520 is a line of solenoid air-operated, 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 520 valves are suitable for automotive, case packing, packaging, and tire manufacturing applications.



Technical data

Industry	Industrial
Activation	Electrically
Valve type	Spool valve
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	G 1/8
Compressed air connection output	G 1/8
Nominal flow Qn	600 l/min
Min. working pressure	1.5 bar
Max. working pressure	8 bar
Min. control pressure	1.5 bar
Max. control pressure	8 bar

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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 DC

Pilot	Internal
Pilot valve width	18 mm
Power consumption DC	1.6 W

Duty cycle	100 %
Typ. switch-on time	20 ms
Typ. switch-off time	30 ms

Min. ambient temperature	5 °C
Max. ambient 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 µm

Mounting screws	M3
Weight	0.095 kg

Material

Housing material	Aluminum, anodized
Seal material	Nitrile butadiene rubber
Material threaded bushing	Aluminum
Material front plate	Polyoxymethylene

Part No.	52000380
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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.

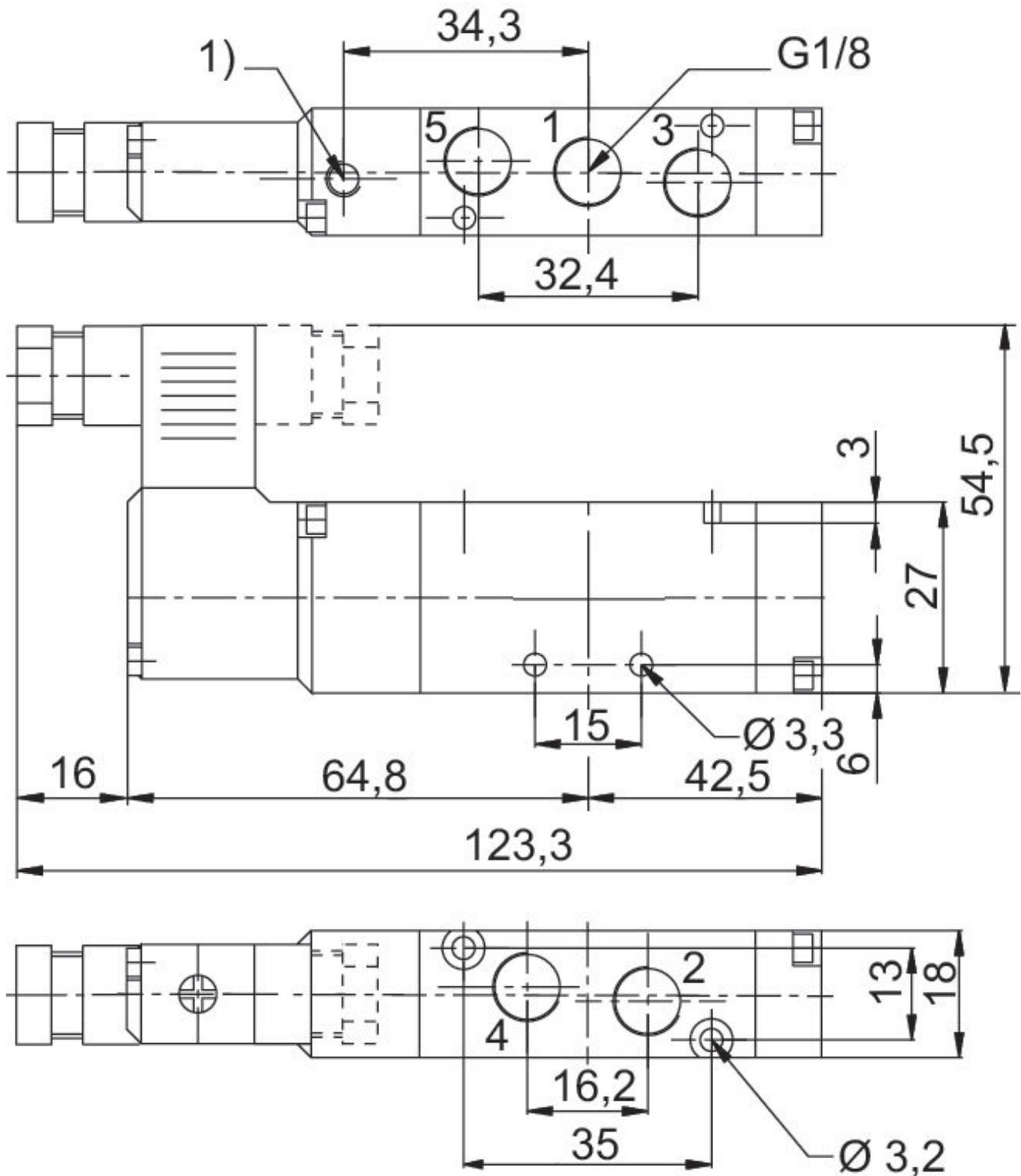
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

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Dimensions



1) Pilot Exhaust