

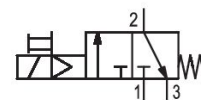
3/2-directional valve, Series ST

2024-04-05

0820031052

Series ST

The AVENTICS Series ST offers a comprehensive range of spool valves with hardened stainless steel housing. The metal sealing system ensures their extended service life independent of the air quality. Its electrical, pneumatic, or mechanical actuating controls (roller, lever, pedal, push-button or plunger) make the ST Series ideal for demanding industry applications and panel installation.



Technical data

Industry	Industrial
Activation	Electrically
Valve type	Spool valve
Switching principle	3/2, with spring return
Valve function	NC/NC
Actuating control	Single Solenoid
Sealing principle	metal/metal sealing
Connection type	Pipe connection
Manual override	without detent
Compressed air connection input	G 1/8
Compressed air connection output	G 1/8
Compressed air connection, exhaust	G 1/8
Nominal flow Qn	280 l/min
Min. working pressure	2 bar
Max. working pressure	10 bar
Min. control pressure	2 bar

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Max. control pressure	10 bar
Electrical connection type	Plug
Electrical connection size	ISO 15217, form C
Protection class with connection	IP65
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10% / +10%
Pilot	Internal
Pilot valve width	15 mm
Power consumption DC	1 W
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	20 ms
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	5 mg/m ³
Max. oil content of compressed air	25 mg/m ³
Max. particle size	5 µm
Mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2.5 Nm
Tightening torque tolerance	±0,5
Weight	0.22 kg
Material	
Housing material	Stainless Steel
Surface housing	hardened
Seal material	Acrylonitrile butadiene rubber
Material front plate	Aluminum
Material end plate	Polyamide
Part No.	0820031052

Technical information

Notice: This product may only be operated with oiled compressed air.

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>).

Dimensions

