

5/2-directional valve, Series ST

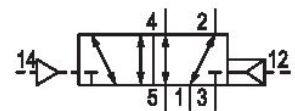
0820205006

Series ST

2025-03-12

AVENTICS Series ST Directional valves

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	Pneumatically
Valve type	Spool valve
Switching principle	5/2, with air spring return
Sealing principle	metal/metal sealing
Connection type	Pipe connection
Compressed air connection input	G 1/8
Compressed air connection output	G 1/8
Compressed air connection, exhaust	G 1/8
Nominal flow Q _n	280 l/min
Min. working pressure	-0.95 bar
Max. working pressure	10 bar
Min. control pressure	1.5 bar
Max. control pressure	10 bar
Min. ambient temperature	-15 °C
Max. ambient temperature	80 °C

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Min. medium temperature	-15 °C
Max. medium temperature	80 °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 screw	M4 with hexagon socket
Mounting screw tightening torque	2.5 Nm
Weight	0.235 kg

Material

Housing material	Stainless Steel
Surface housing	hardened
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Polyamide
Material threaded bushing	Brass
Part No.	0820205006

Technical information

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

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

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>).

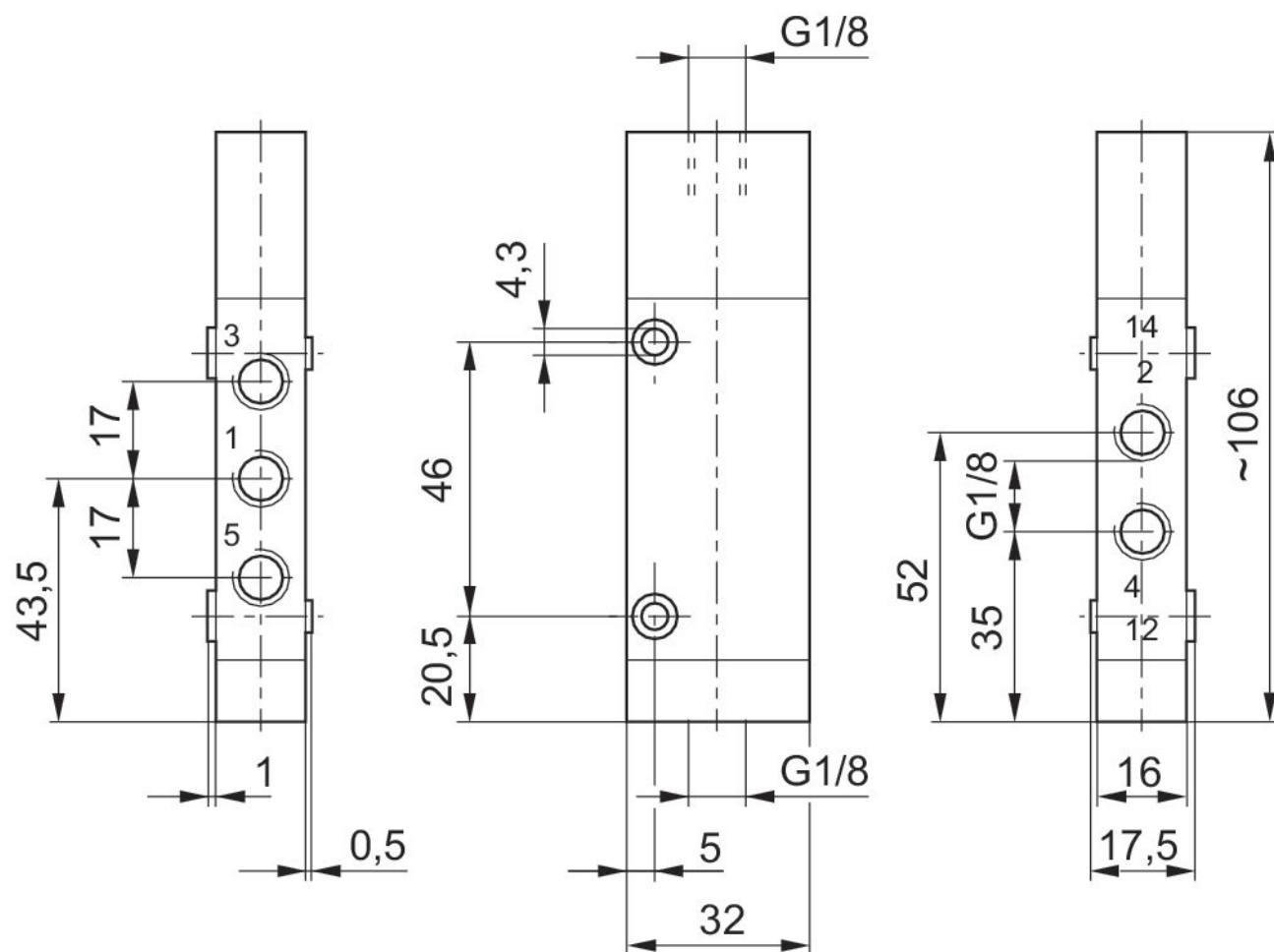
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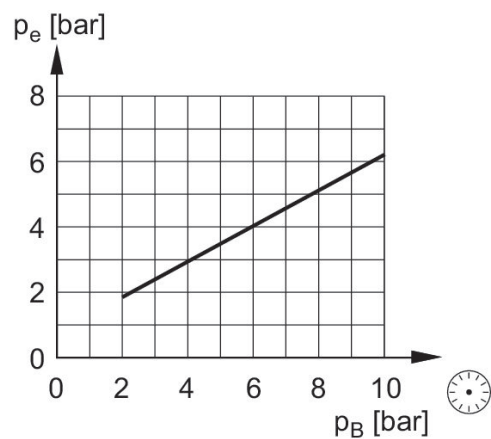
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Dimensions in mm



Control pressure



p_e = external control pressure, min.
 p_B = Working pressure