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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, pushbutton or plunger) make the ST Series ideal for demanding industry applications and panel installation.





Technical data

Industry Industrial Activation Mechanical Type with air return Valve type Spool valve Actuating control **Double Solenoid** Plate connection Pipe connection Actuating element panel installation Sealing principle metal/metal sealing not lockable Lock type

Compressed air connection type Internal thread G 1/8 Compressed air connection input Compressed air connection output G 1/8 Compressed air connection, exhaust G 1/8 Nominal flow Qn 280 I/min Min. working pressure -0.95 bar 10 bar Max. working pressure 2 bar Min. control pressure Max. control pressure 10 bar

5/2-directional valve, Series ST

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Min. ambient temperature $-15\,^{\circ}\text{C}$ Max. ambient temperature $80\,^{\circ}\text{C}$ Min. medium temperature $-15\,^{\circ}\text{C}$ Max. medium temperature $80\,^{\circ}\text{C}$

Medium Compressed air

Min. oil content of compressed air5 mg/m³Max. oil content of compressed air25 mg/m³Max. particle size5 μm

Mounting screw M4 with hexagon socket

Mounting screw tightening torque 2.5 Nm Weight 0.23 kg

Material

Housing material Stainless Steel
Surface housing hardened
Material threaded bushing Brass

Material actuating control Polyoxymethylene
Part No. R422002214

Technical information

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

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

Please order control button separately.

Cannot be combined with mushroom button with detent and rotary release R412012741

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.

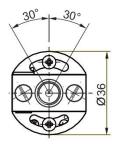
The oil content of compressed air must remain constant during the life cycle.

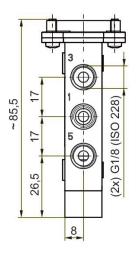
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

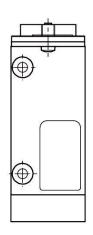
5/2-directional valve, Series ST

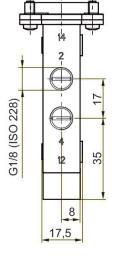
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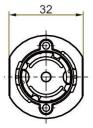
Dimensions in mm







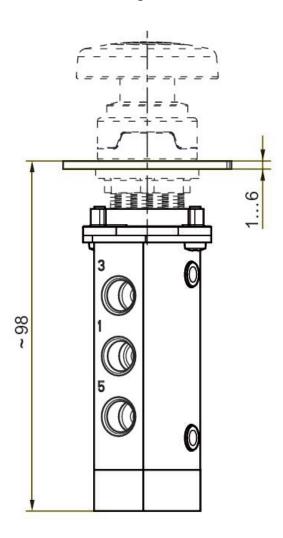




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Overview drawing

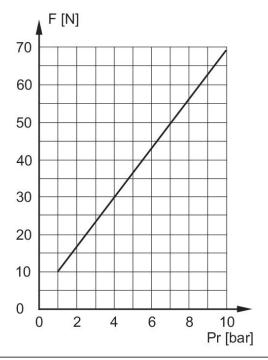




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Actuating force+



F = actuating force Pr = return pressure