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 Activation Type Valve type Actuating control Plate connection Actuating element Sealing principle Lock type
- Compressed air connection type Compressed air connection input Compressed air connection output Compressed air connection, exhaust Nominal flow Qn Min. working pressure Max. working pressure Min. ambient temperature Max. ambient temperature

Industrial Mechanical With spring return Spool valve Single Solenoid Pipe connection Nozzle metal/metal sealing not lockable

Internal thread G 1/8 G 1/8 G 1/8 280 I/min 2 bar 10 bar -15 °C 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/m³
Max. oil content of compressed air	25 mg/m³
Max. particle size	5 μm
Mounting screw	M4 with hexagon socket
Mounting screw tightening torque	2.5 Nm
Weight	0.21 kg
Material Housing material Surface housing Material, front cover Material actuating control Part No.	Stainless Steel hardened Brass Brass 0820403015

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.

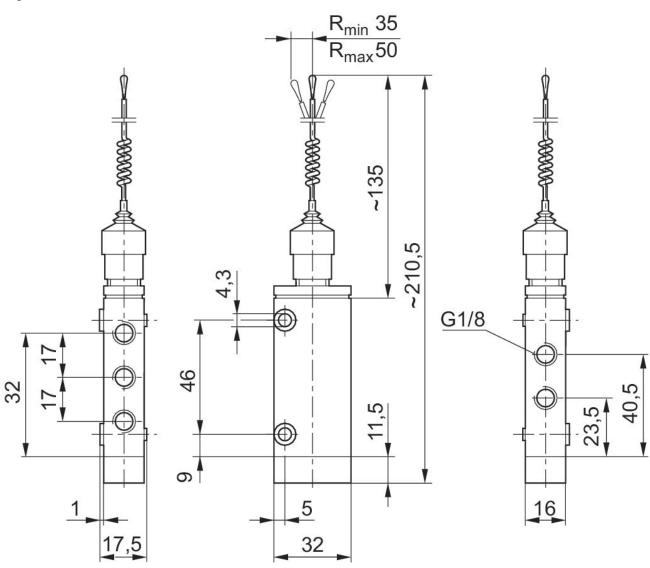
The oil content of compressed air must remain constant during the life cycle.

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).



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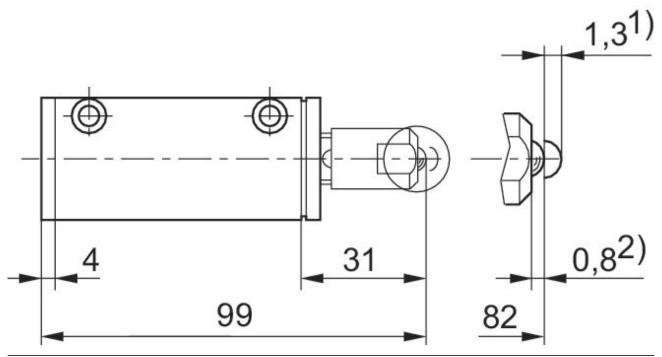




Mounting via 2 through-holes in housing

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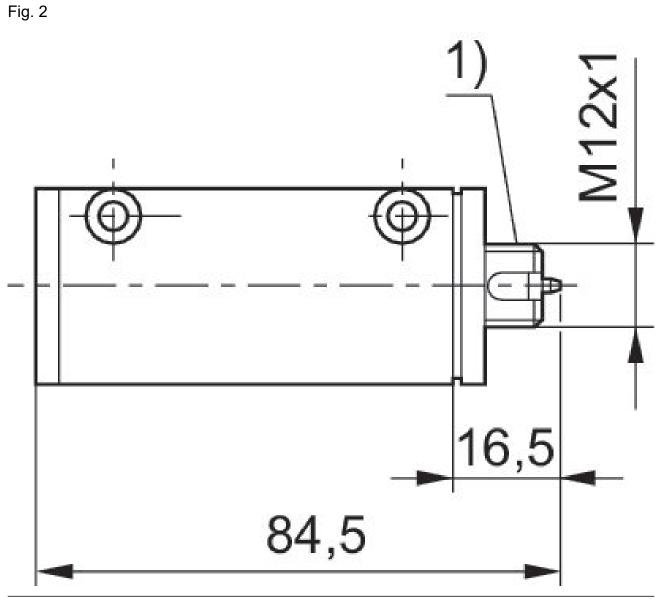
Fig. 1



1) Actuating stroke 2) overstroke connection via 2 through-holes in housing



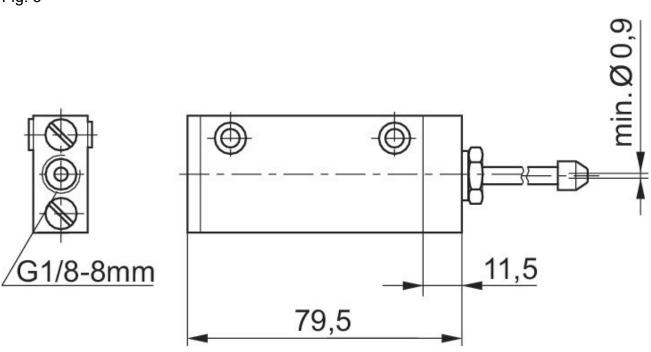
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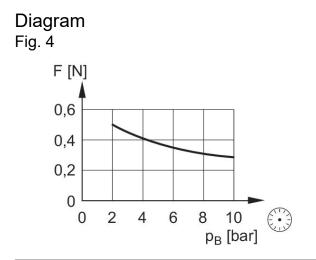
1) not intended as mounting thread Mounting via 2 through-holes in housing



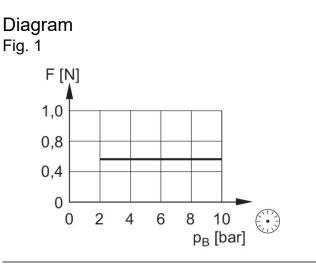
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Mounting via 2 through-holes in housing

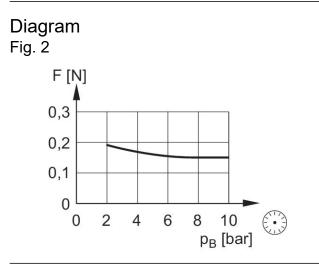


 ${\sf F}$ = actuating force at the rear end of the spring-loaded rod ${\sf P}_{\sf B}$ = Working pressure

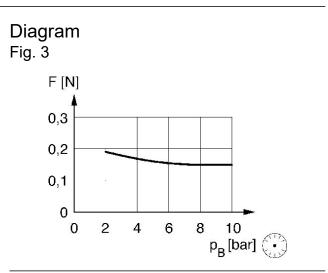


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 ${\sf F}$ = actuating force at the rear end of the spring-loaded rod ${\sf P}_{\sf B}$ = Working pressure



F = actuating force at the rear end of the spring-loaded rod P_B = Working pressure

