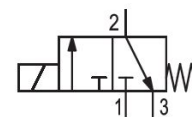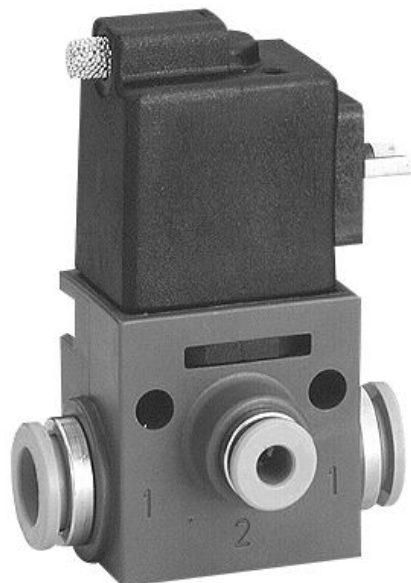## AVENTICS Series 490/579/589 Directional Control Valves

The AVENTICS Series 490/579/589 have a robust polymer housing that can be mounted individually or as a block. They cover a large range of voltages and feature fast connections for pneumatic tubing.

Technical data

Industry	Industrial
Activation	Electrically
Valve type	Poppet valve
Switching principle	3/2, with spring return
Valve function	NC
Actuating control	Single Solenoid
Sealing principle	Soft seal
Connection type	Pipe connection
Compressed air connection input	Ø 8
Compressed air connection output	Ø 4
Nominal flow Qn	50 l/min
Min. working pressure	0 bar
Max. working pressure	7 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	- 5% / +10%
Pilot	Internal
Coil width	20 mm
Power consumption DC	2 W
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	18 ms
Min. ambient temperature	-15 °C
Max. ambient temperature	50 °C
Min. medium temperature	-15 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	1 mg/m³
Max. particle size	5 µm
Weight	0.073 kg

Material

Housing material	Polyoxymethylene
Seal material	Acrylonitrile butadiene rubber
Part No.	5724990220

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.

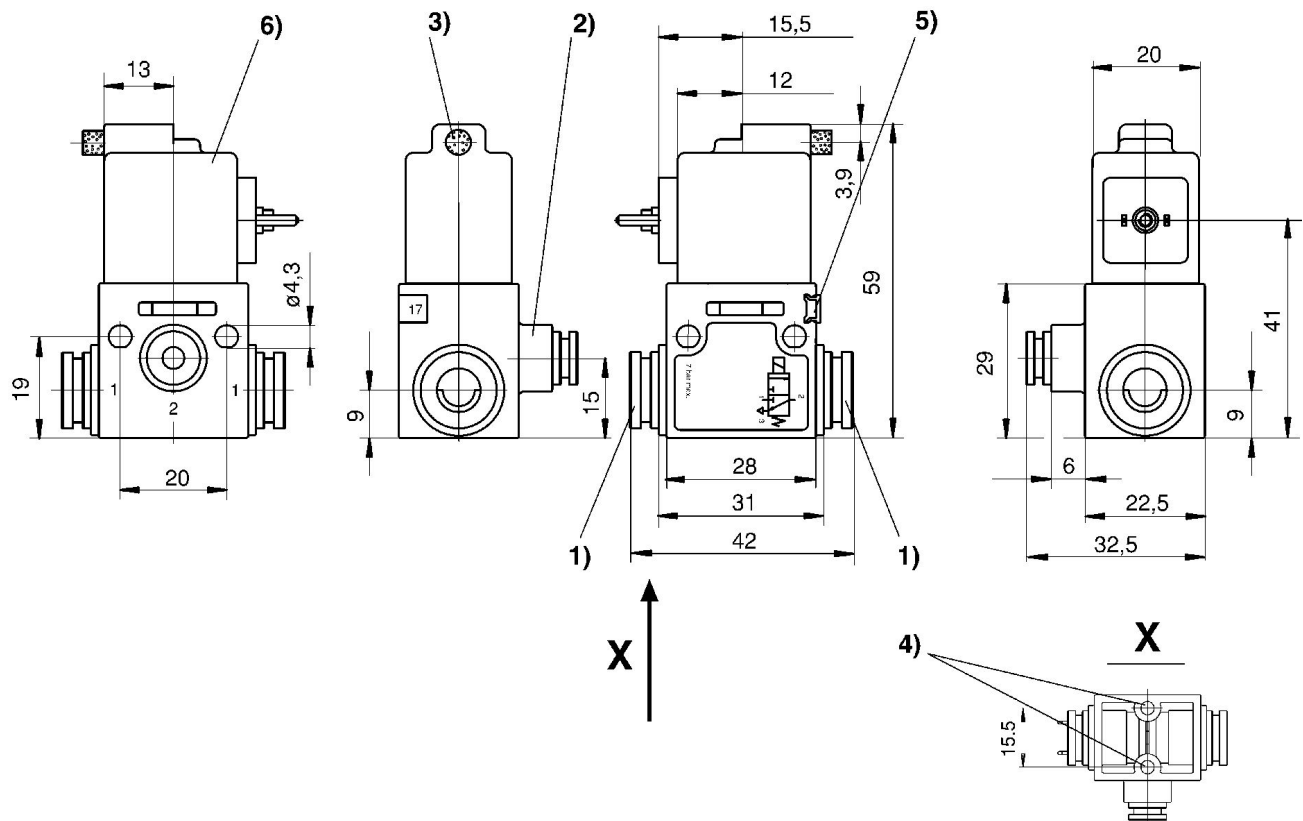The oil content of compressed air must remain constant during the life cycle.

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).

Dimensions

1) port 1 2) port 2 3) exhaust 4) pocket hole 6 mm deep for 3.5 self-tapping screw 5) mounting space for name plate 6) coil can be rotated at 180° intervals