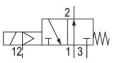
# AVENTICS Series 490/579/589 Directional Control Valves

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	NO
Sealing principle	Soft seal
Connection type	Pipe connection
Compressed air connection output	Ø 8x1
Compressed air connection pilot input	Ø 4
Nominal flow Qn	600 l/min
Min. working pressure	0.5 bar
Max. working pressure	8 bar
Min. control pressure	2 bar
Max. control pressure	8 bar
Electrical connection type	Plug
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## 3/2-directional valve, Series 579

5791625220

Electrical connection size Protection class with connection Reverse polarity protection Operational voltage Operational voltage AC at 50 Hz Voltage tolerance AC 50 Hz Operational voltage AC at 60 Hz	ISO 15217, form C IP65 Protected against polarity reversal 24 V AC 24 V -10% / +15% 24 V -10% / +15%
Pilot	External
Coil width	20 mm
Holding power AC 50 Hz	2.2 VA
Holding power AC 60 Hz	1.8 VA
Switch-on power AC 50 Hz	3 VA
Switch-on power AC 60 Hz	2.6 VA
Duty cycle	100 %
Typ. switch-on time	18 ms
Typ. switch-off time	16 ms
Blocking principle	Stacking valve
Can be assembled into blocks	Can be assembled into blocks
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	0.093 kg

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#### Material

Housing material Seal material

Part No.

Polyamide Acrylonitrile butadiene rubber Polyurethane 5791625220



#### **Technical information**

At an ambient temperature of [[40] °C] the max. working pressure is [[10] bar].

Versions with voltage of less than 50 V DC do not have a protective ground.

The control pressure must be at least as high as the working pressure.

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.

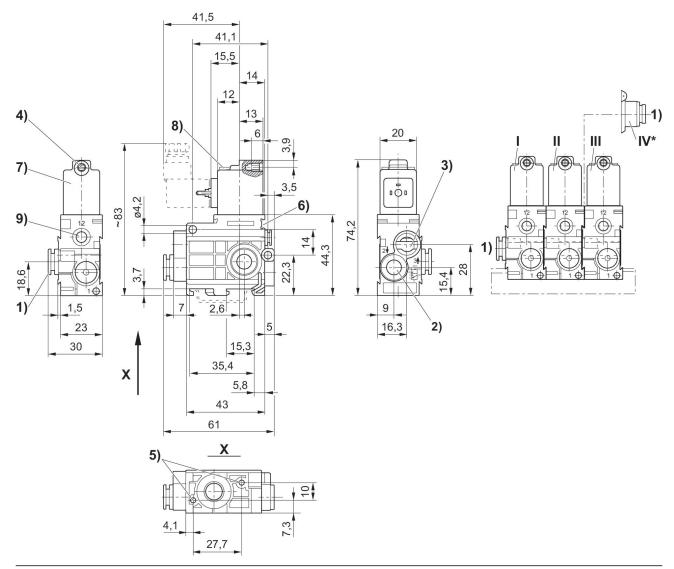
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



### 3/2-directional valve, Series 579

5791625220

#### Dimensions



1) Port 1 2) Port 2 3) Port 3, exhaust air must not be throttled 4) Core Ø for M5 5) Pocket hole 6 mm deep for 3.5 self-tapping screw 6) Mounting space for name plate 7) Coil can be rotated at 180° intervals 8) LED 9) Port 12 \* Air connection module (item IV) mounted onto stacking valve (item II) permits additional air supply from right hand side. End valve (item III) not required. I = Inlet valve, II = Stacking valve, III = End valve

