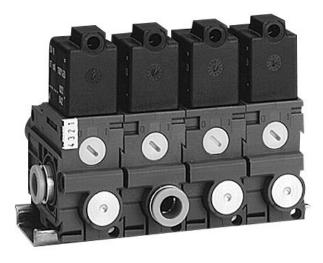
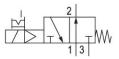
AVENTICS Series 490/579/589 Directional Control Valves

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
Activation
Valve type
Switching principle
Valve function
Sealing principle
Connection type
Manual override

Compressed air connection input Compressed air connection output

Nominal flow Qn

Min. working pressure Max. working pressure

Electrical connection type Electrical connection size

Industrial Electrically Poppet valve 3/2, with spring return NO Soft seal Pipe connection with detent

Ø 8x1 Ø 8x1

600 l/min

2 bar 8 bar

Plug ISO 15217, form C



3/2-directional valve, Series 579

5790610210

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Protection class with connection Reverse polarity protection Operational voltage Operational voltage DC Voltage tolerance DC	IP65 Protected against polarity reversal 12 V DC 12 V -10% / +10%
Pilot	Internal
Coil width	20 mm
Power consumption DC	1.6 W
Duty cycle	100 %
Typ. switch-on time	18 ms
Typ. switch-off time	16 ms
Blocking principle	Inlet 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

Weight

Material

Housing material Seal material

Part No.

Polyamide Acrylonitrile butadiene rubber Polyurethane 5790610210



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 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.

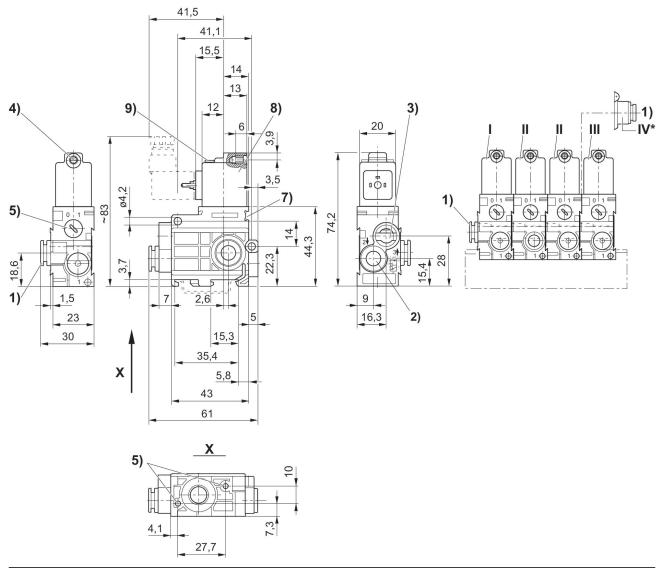
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



3/2-directional valve, Series 579

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Dimensions



1) Port 1 2) Port 2 3) Port 3, exhaust air must not be throttled 4) Core Ø for M5 5) Manual override 6) Pocket hole 6 mm deep for 3.5 self-tapping screw 7) Mounting space for name plate 8) Coil can be rotated at 180° intervals 9) LED * Air conn. 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

