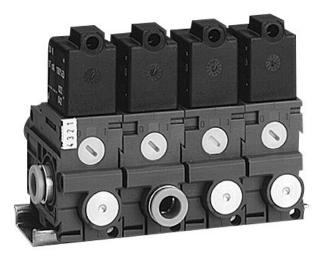
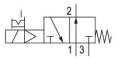
AVENTICS Series 490/579/589 Directional Control Valves

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.





Industry Activation Valve type Switching principle Valve function Sealing principle Connection type Manual override	Technical data
Valve type Switching principle Valve function Sealing principle Connection type	Industry
Switching principle Valve function Sealing principle Connection type	Activation
Valve function Sealing principle Connection type	Valve type
Sealing principle Connection type	Switching principle
Connection type	Valve function
	Sealing principle
Manual override	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

5790615270

Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Operational voltage	110 V AC
Operational voltage AC at 50 Hz	110 V
Voltage tolerance AC 50 Hz	-10% / +15%
Operational voltage AC at 60 Hz	110 V
Voltage tolerance AC 60 Hz	-10% / +15%
Pilot	Internal
Coil width	20 mm
Holding power AC 50 Hz	3 VA
Holding power AC 60 Hz	2.4 VA
Switch-on power AC 50 Hz	4.2 VA
Switch-on power AC 60 Hz	3.4 VA
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
-	-

Material

Housing material Seal material

Part No.

Polyamide Acrylonitrile butadiene rubber Polyurethane 5790615270

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.

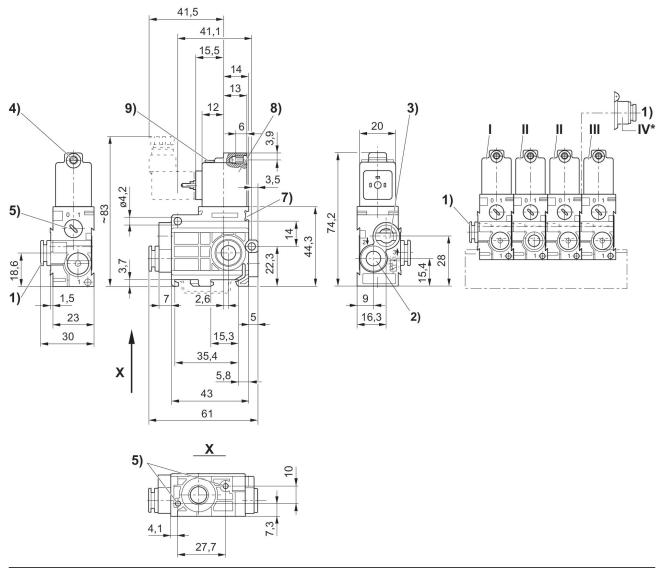
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



3/2-directional valve, Series 579

5790615270

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

