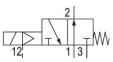
2023-11-02

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
Connection type

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

Compressed air connection input
Compressed air connection output
Compressed air connection pilot input

Min. working pressure Max. working pressure Min. control pressure Max. control pressure

Protection class with connection Operational voltage Ø 1/4" Ø 1/4" 5/32"

0.5 bar

8 bar

2 bar

8 bar

IP65 12 V DC



3/2-directional valve, Series 579

5796420310

Operational voltage DC Voltage tolerance DC	12 V -10% / +10%
Pilot Coil width	External 20 mm
Power consumption DC	1.6 W
Duty cycle	100 %
Blocking principle	Stacking valve, additional pressure connection
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	

lyamide
rylonitrile butadiene rubber lyurethane
96420310

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.

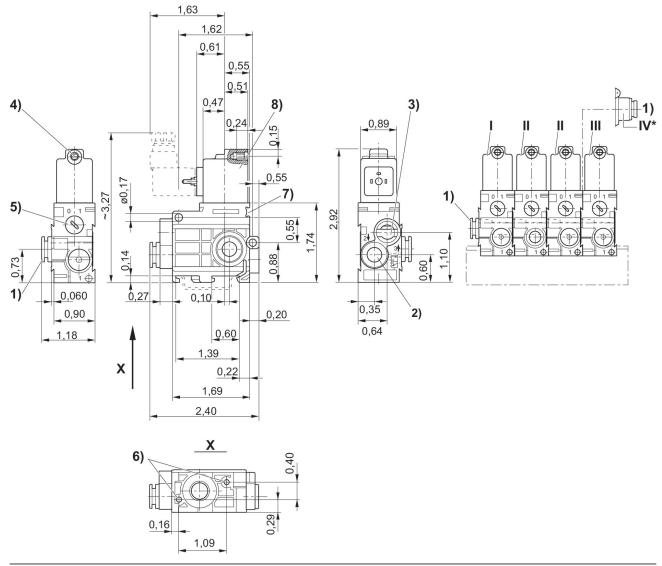
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



3/2-directional valve, Series 579

5796420310

Dimensions in inches



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 * 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

