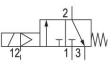
AVENTICS Series 490/579/589 Directional Control Valves

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 |

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

Reverse polarity protection

Industrial Electrically Poppet valve 3/2, with spring return NC Soft seal Pipe connection

Ø 1/4" Ø 1/4" 5/32"

0.5 bar 8 bar 2 bar 8 bar

Protected against polarity reversal



3/2-directional valve, Series 579

5790475320

| Operational voltage | 24 V AC |
|------------------------------------|------------------------------|
| Operational voltage AC at 50 Hz | 24 V |
| Voltage tolerance AC 50 Hz | -10% / +15% |
| Operational voltage AC at 60 Hz | 24 V |
| Voltage tolerance AC 60 Hz | -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 | Inlet valve |
| Can be assembled into blocks | Can be assembled into blocks |
| Valve plug connector | Without valve plug connector |
| 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/m ³ |
| Max. oil content of compressed air | 1 mg/m ³ |
| Max. particle size | 5 µm |

Material Housing material Seal material

Part No.

Polyamide Acrylonitrile butadiene rubber Polyurethane 5790475320



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.

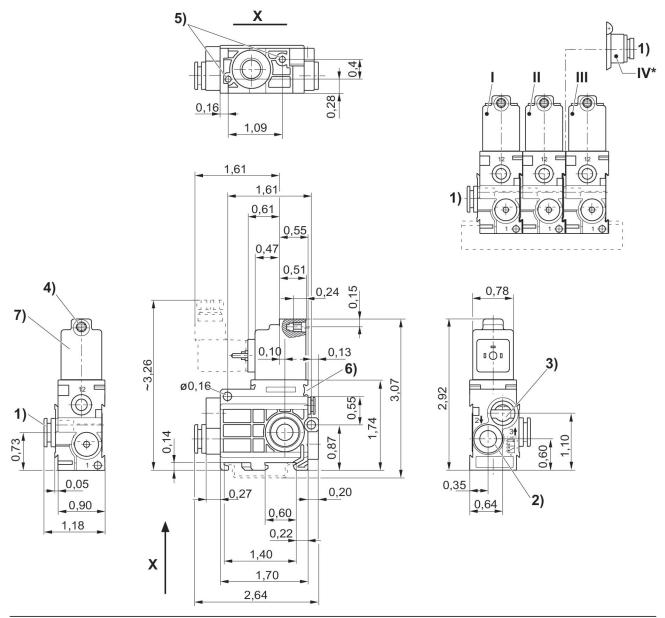
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



3/2-directional valve, Series 579

5790475320

Dimensions in inches



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) 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

