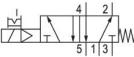
AVENTICS Series 490/579/589 Directional Control Valves

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 |
| Sealing principle |
| Connection type |
| Manual override |

Compressed air connection input Compressed air connection output Compressed air connection, exhaust

Min. working pressure Max. working pressure

Electrical connection type Electrical connection size Protection class with connection Industrial Electrically Poppet valve 5/2, with spring return Soft seal Pipe connection with detent

Ø 1/4" Ø 1/4" 5/16"

3 bar 8 bar

Plug ISO 15217, form C IP65



5/2-directional valve, Series 589

5894705780

| Reverse polarity protection | Protected against polarity reversal |
|------------------------------------|-------------------------------------|
| Operational voltage | 220 V AC |
| Operational voltage AC at 50 Hz | 220 V |
| Voltage tolerance AC 50 Hz | -10% / +15% |
| | |
| Pilot | Internal |
| Coil width | 20 mm |
| Holding power AC 50 Hz | 2.5 VA |
| Holding power AC 60 Hz | 2.2 VA |
| Switch-on power AC 50 Hz | 3.4 VA |
| Switch-on power AC 60 Hz | 3 VA |
| | |
| Duty cycle | 100 % |
| Typ. switch-on time | 27 ms |
| Typ. switch-off time | 28 ms |
| | |
| Blocking principle | Single valve |
| 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/m ³ |
| Max. particle size | 5 μm |
| | |
| Weight | 0 133 ka |

Weight

0.133 kg

Material Housing material Seal material

Part No.

Polyamide Acrylonitrile butadiene rubber Polyurethane 5894705780



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.

Working pressure with vacuum operation, connection 1: min. [[3] bar], connection 3: min. -[[0.95] bar]

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.

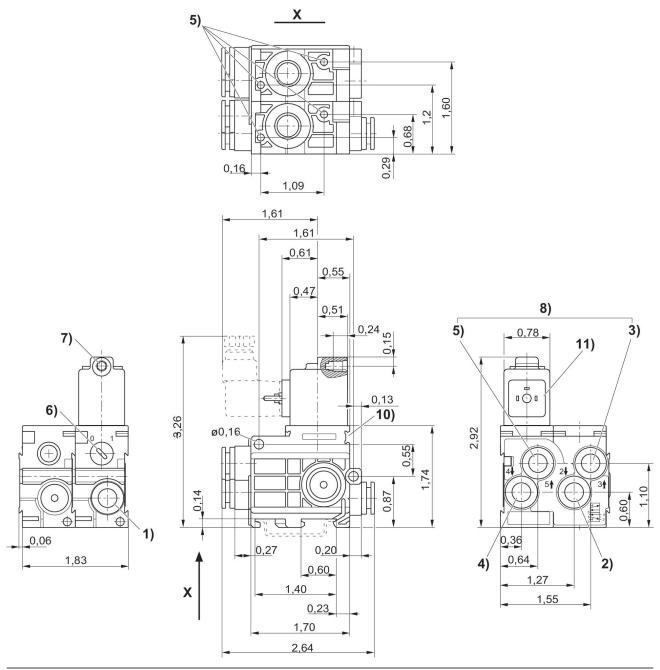
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



5/2-directional valve, Series 589

5894705780

Dimensions in inches

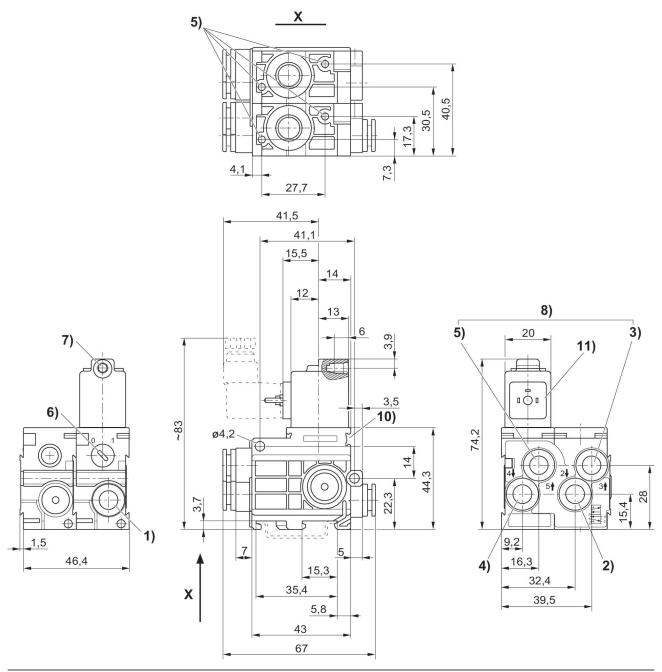


1) port 1 2) port 2 3) port 3 4) port 4 5) port 5 6) manual override 7) core Ø for M 5 8) exhaust air must not be throttled 9) pocket hole 6 mm deep for 3.5 selftapping screw 10) mounting space for name plate 11) coil can be rotated at 180° intervals

5/2-directional valve, Series 589

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