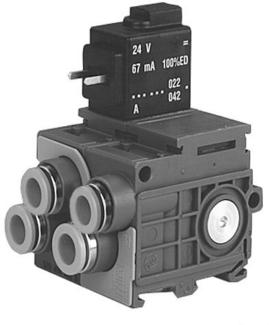
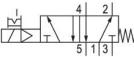
#### AVENTICS Series 490/579/589 Directional Control Valves

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 <sup>3</sup>
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.

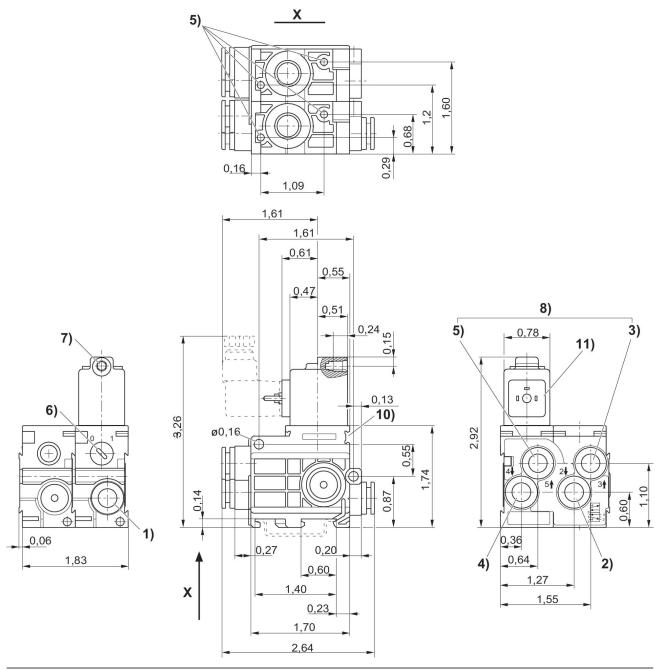
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



## 5/2-directional valve, Series 589

5894705780

### Dimensions in inches

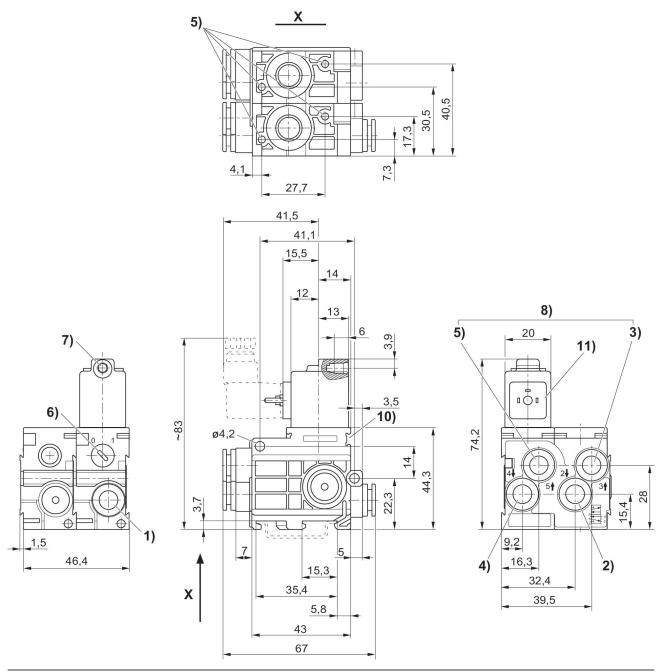


1) port 1 2) port 2 3) port 3 4) port 4 5) port 5 6) manual override 7) core Ø for M 5 8) exhaust air must not be throttled 9) pocket hole 6 mm deep for 3.5 selftapping screw 10) mounting space for name plate 11) coil can be rotated at 180° intervals

## 5/2-directional valve, Series 589

5894705780

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