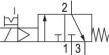
2023-11-02

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 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

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

Ø 1/4" Ø 1/4" 5/16"

3 bar 8 bar

Plug ISO 15217, form C



3/2-directional valve, Series 589

5894400720

IP65
Protected against polarity reversal
24 V DC
24 V
-10% / +10%
Internal
20 mm
1.7 W
100 %
18 ms
16 ms
Single valve
-15 °C
50 °C
-15 °C

•
Min. medium temperature
Max. medium temperature
Medium
Min. oil content of compressed air
Max. oil content of compressed air
Max. particle size

Weight

Material Housing material Seal material

Part No.

0.093 kg

50 °C

0 mg/m³

1 mg/m³

5 µm

Compressed air

Polyamide Acrylonitrile butadiene rubber Polyurethane 5894400720





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.

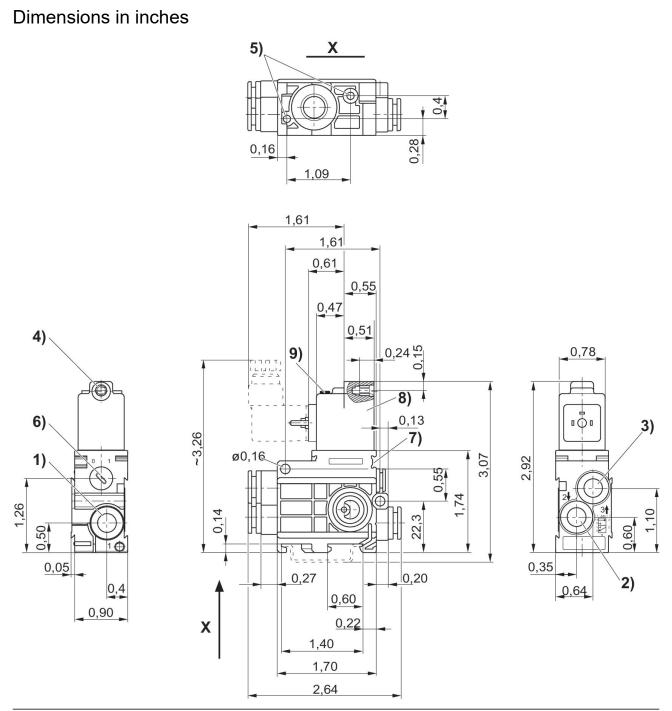
The oil content of compressed air must remain constant during the life cycle.

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).



3/2-directional valve, Series 589

5894400720



1) port 1 2) port 2 3) port 3 4) core Ø for M 5 5) pocket hole 6 mm deep for 3.5 self-tapping screw 6) manual override 7) Pilot valve 8) coil can be rotated at 180° intervals

