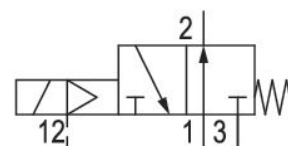


3/2-directional valve, Series 589

5894425680

General series information
Series 589

- 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
Industrial

Activation
Electrically

Nominal flow Q_n
520 l/min

Switching principle
3/2

Version
NO

Compressed air connection output
 \varnothing 6x1

Working pressure min.
0.5 bar

Working pressure max
8 bar

Operational voltage AC at 50 Hz
230 V

Operational voltage AC at 60 Hz
230 V

Voltage tolerance AC 50 Hz
-10% / +15%

Voltage tolerance AC 60 Hz
-10% / +15%

Electrical connection type
Plug

Electrical connection size
ISO 15217, form C

Sealing principle
Soft Seal

Pilot
External

Valve type Poppet valve	Return With spring return
Connection type Pipe connection	Blocking principle Single valve
Control pressure min. 3 bar	Max. medium temperature 50 °C
Control pressure max. 10 bar	Medium Compressed air
Min. ambient temperature -15 °C	Max. particle size 5 µm
Max. ambient temperature 50 °C	Oil content of compressed air min. 0 mg/m ³
Min. medium temperature -15 °C	Oil content of compressed air max. 1 mg/m ³
Compressed air connection input Ø 6x1	Compressed air connection pilot input Ø 4
Compressed air connection, exhaust Ø 8x1	
Holding power AC 50 Hz 2.5 VA	LED status display Red
Holding power AC 60 Hz 2.2 VA	Duty cycle 100 %
Switch-on power AC 50 Hz 3.4 VA	Typ. switch-on time 18 ms
Switch-on power AC 60 Hz 3 VA	Typ. switch-off time 16 ms
Protection class with connection IP65	Weight 0.093 kg
Reverse polarity protection Protected against polarity reversal	
Housing material Polyamide	Polyurethane
Seal material Acrylonitrile butadiene rubber	Part No. 5894425680

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 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 under 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>).

