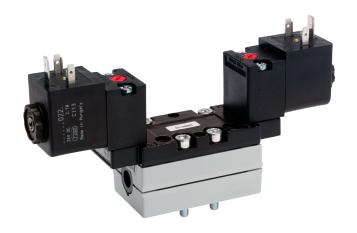
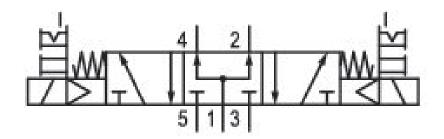
5/3-directional valve, Series 581, size 1

5811790450

General series information ISO 5599-1, size 1, series 581

- The AVENTICS Series 581 complies with the valve standard ISO 5599-1. Due to the level of modularity, the Series offers all valve functions, integrated throttle valves, various pilot coils, and a comprehensive range of accessories.
- Qn = 950 ... 1400 l/min





Technical data

Industry Industrial

Activation

Electrically

Nominal flow Qn

1100 l/min

Switching principle

5/3

Version

Pressurized Center

Compressed air connection output

Base plate ISO 5599-1

Working pressure min.

3 bar

Working pressure max

10 bar

Operational voltage AC at 50 Hz

230 V

Voltage tolerance AC 50 Hz

-10% / +10%

Manual override

with detent without detent

Electrical connection type

Plua

Electrical connection size

EN 175301-803, form A

Sealing principle

Soft Seal



Pilot Internal Standards ISO 5599-1

Pilot valve width 30x22 mm CNOMO

Valve type Spool valve

Blocking principle
Single base plate principle

Connection type Plate connection

Compressed air connection input

Base plate ISO 5599-1

Compressed air connection, exhaust

Base plate ISO 5599-1

Compressed air connection pilot exhaust

М5

Holding power AC 50 Hz

4.8 VA

Switch-on power AC 50 Hz

7 VA

Flow conductance C

4.3 l/(s*bar)
Frame size

Control pressure min.

3 bar

Control pressure max.

10 bar

Min. ambient temperature

-15 °C

Max. ambient temperature

50 °C

Min. medium temperature

-15 °C

Max. medium temperature

50 °C Medium Compressed air Max. particle size

50 µm

Oil content of compressed air min.

0 mg/m³

Oil content of compressed air max.

5 mg/m³

Protection class with connection

IP65

Compatibility index

14

Duty cycle 100 %

Typ. switch-on time

14 ms

Typ. switch-off time

28 ms

mounting screws with hexagon socket

Mounting screw tightening torque

2 Nm Weight 0.5 kg

Housing material

Aluminum

Seal material

Acrylonitrile butadiene rubber

Part No. 5811790450

Technical information

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).



Dimensions

