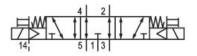
AVENTICS Series 581 - Size 1 Standardized valves

The AVENTICS series 581 complies with the ISO 5599-1 valve standard. Due to the high degree of modularity, the series offers all valve functions, integrated throttle valves, various pilot coils and an extensive range of accessories. $Qn = 950 \dots 1400 \text{ l/min}$





Technical data

Industry Industrial
Activation Electrically
Nominal flow Qn 1100 I/min

Switching principle 5/3, exhausted center Version Exhausted Center

Compressed air connection output Base plate ISO 5599-1

Min. working pressure -0.95 bar
Max. working pressure 16 bar

Operational voltage 24 V DC / 42 V AC

Operational voltage DC 24 V Operational voltage AC at 50 Hz 42 V

Voltage tolerance DC -10% / +10%

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

Manual override without detent

Electrical connection type Plug

Electrical connection size EN 175301-803, form A

Sealing principle Soft seal
Pilot External
Standards ISO 5599-1

5811592540

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 M5
Power consumption DC 6.7 W
Holding power AC 50 Hz 7.7 VA
Switch-on power AC 50 Hz 12 VA

Flow conductance C 4.3 l/(s*bar)

Frame size ISO 1

Min. control pressure 3 bar

Max. control pressure 16 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 size50 μmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Protection class with connectionIP65Duty cycle100 %Typ. switch-on time14 msTyp. switch-off time28 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. 5811592540

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 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).

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Dimensions

