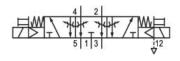
5811561130

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 pressure3 barMax. working pressure10 barOperational voltage24 V DCOperational voltage DC24 V

Voltage tolerance DC -10% / +10%
Manual override without detent

Electrical connection type Plug

Electrical connection size ISO 15217, form C

Sealing principle

Pilot

Standards

Standards

Pilot valve width

Valve type

Soft seal

Internal

ISO 5599-1

5 mm

Spool valve

Blocking principle Single base plate principle

Connection type Plate connection

Compressed air connection input

Compressed air connection, exhaust

Base plate ISO 5599-1

Base plate ISO 5599-1

Base plate ISO 5599-1

Base plate ISO 5599-1

5811561130

Power consumption DC 2 W

Flow conductance C 4.3 l/(s*bar)
Throttle with throttle

Frame size ISO 1

Min. control pressure 3 bar

Max. control pressure 10 bar

Min. ambient temperature -10 °C

Max. ambient temperature 50 °C

Min. medium temperature -10 °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 time22 ms

Mounting screws with hexagon socket

Mounting screw tightening torque 2 Nm Weight 0.22 kg

Housing material Polyamide fiber-glass reinforced Seal material Acrylonitrile butadiene rubber

Part No. 5811561130

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

