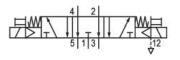
5811560160

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 ... 1400 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 3 bar

Max. working pressure 10 bar

Operational voltage 24 V DC

Operational voltage DC 24 V

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

Electrical connection type Plug
Electrical connection number of poles 3-pin

Sealing principle Soft seal
Pilot Internal
Standards ISO 5599-1

Pilot valve width 15 mm
Valve type Spool valve

5811560160

Blocking principle Single base plate principle

Connection type Plate connection

Compressed air connection input

Compressed air connection, exhaust

Compressed air connection pilot input

Compressed air connection pilot exhaust

Base plate ISO 5599-1

Base plate ISO 5599-1

Base plate ISO 5599-1

Power consumption DC 2.2 W

Flow conductance C 4.3 l/(s*bar)

Cable length 0.5 m Frame size **ISO 1** Min. control pressure 3 bar Max. control pressure 10 bar Min. ambient temperature -10 °C 50 °C Max. ambient temperature Min. medium temperature -10 °C 50 °C Max. medium temperature

Medium Compressed air

Max. particle size50 μmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Protection class with connectionIP67Protective circuitZ-diode

Reverse polarity protection Protected against polarity reversal

LED status display Green
Duty cycle 100 %
Typ. switch-on time 14 ms
Typ. switch-off time 22 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. 5811560160

Technical information

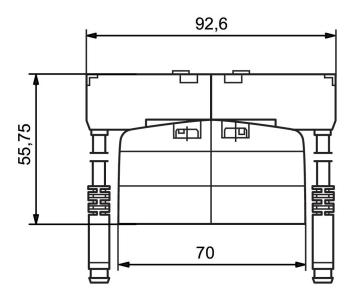
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

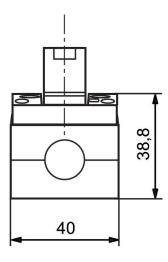
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

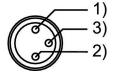
The oil content of compressed air must remain constant during the life cycle.

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).

Dimensions







Pin assignment 1) brown (+24 V) 2) green/yellow (ground) 3) blue (0 V) $\,$