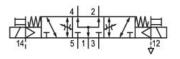
5811763160

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 l/min

Switching principle 5/3, pressurized center Version **Pressurized Center**

Compressed air connection output Base plate ISO 5599-1

Min. working pressure -0.95 bar Max. working pressure 10 bar Operational voltage 24 V DC 24 V Operational voltage DC

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

Electrical connection type Plug

Electrical connection number of poles 3-pin Soft seal Sealing principle Pilot External ISO 5599-1 Standards Pilot valve width 15 mm

Valve type Spool valve 5811763160

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)
Throttle with throttle

0.5 m Cable length Frame size **ISO 1** Min. control pressure 3 bar Max. control pressure 10 bar -10 °C Min. ambient temperature 50 °C Max. ambient temperature 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 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. 5811763160

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Technical information

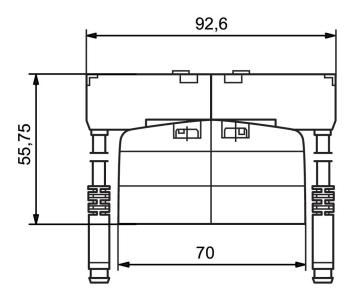
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

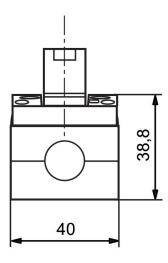
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

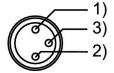
The oil content of compressed air must remain constant during the life cycle.

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)