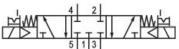
AVENTICS Series 581 - Size 1 Standardized valves

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, closed center Version Closed Center

Compressed air connection output Base plate ISO 5599-1

Min. working pressure3 barMax. working pressure10 barOperational voltage12 V DCOperational voltage DC12 V

Voltage tolerance DC -10% / +10% Manual override with detent

Electrical connection type Plug

Electrical connection size Form B, industry

Sealing principle

Pilot

Standards

Pilot valve width

Soft seal

Internal

ISO 5599-1

22 mm

Spool valve

Valve type

5811420500

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 5 W

Flow conductance C 4.3 l/(s*bar)

Frame size ISO 1

Min. control pressure 3 bar

Max. control pressure 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 size50 μmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Protection class with connectionIP65Duty cycle100 %Typ. switch-on time15 msTyp. switch-off time29 ms

Mounting screws with hexagon socket

Mounting screw tightening torque 2 Nm Weight 0.3 kg

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

Part No. 5811420500

Technical information

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

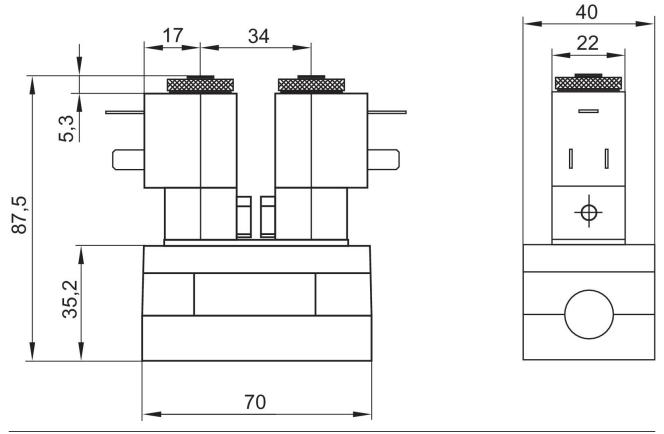
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).

5811420500

Dimensions



The pilot valves can be loosened and turned through 180°.