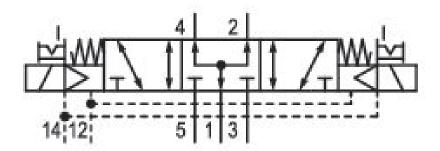
5/3-directional valve, Series 581, size 1

5811722710

General series information ISO 5599-1, size 1, series 581

- The AVENTICS Series 581 complies with the valve standard ISO 5599-1. Due to the level of modularity, the Series offers all valve functions, integrated throttle valves, various pilot coils, and a comprehensive range of accessories.
- Qn = 950 ... 1400 l/min





Technical data

Industry

Industrial

Activation

Electrically

Nominal flow Qn

1100 l/min

Switching principle

5/3

Version

Pressurized Center

Compressed air connection output

Base plate ISO 5599-1

Working pressure min.

-0.95 bar

Working pressure max

10 bar

DC operating voltage

24 V

Voltage tolerance DC

-10% / +10%

Manual override

with detent

Electrical connection type

Plug

Electrical connection size

M12

Electr. connection

4-pin



Sealing principle

Soft Seal
Pilot
External
Standards
ISO 5599-1

Pilot valve width

22 mm 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

0.35 W

Flow conductance C

4.3 l/(s*bar)
Frame size

Control pressure min.

3 bar

Control pressure max.

10 bar

Min. ambient temperature

0°C

Max. ambient temperature

50 °C

Min. medium temperature

0°C

Max. medium temperature

50 °C Medium Compressed air Max. particle size

5 µm

Oil content of compressed air min.

0 mg/m³

Oil content of compressed air max.

5 mg/m³

Protection class with connection

Duty cycle

Typ. switch-on time

12 ms

100 %

Typ. switch-off time

25 ms

mounting screws with hexagon socket

Mounting screw tightening torque

2 Nm Weight 0.18 kg

Housing material

Polyamide fiber-glass reinforced

Seal material

Acrylonitrile butadiene rubber

Part No. 5811722710

Technical information

Switch-on power: 1 W for 40 ms

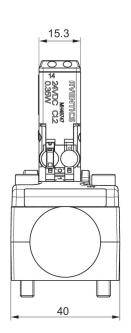
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

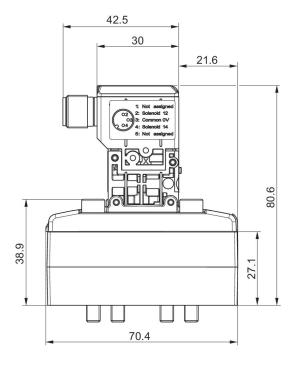
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

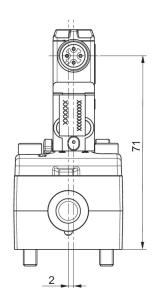
The oil content of compressed air must remain constant during the life cycle.

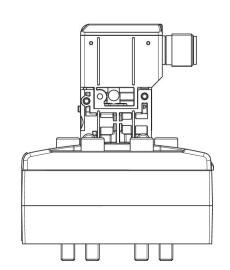
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

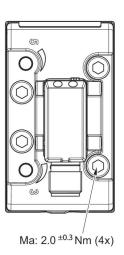






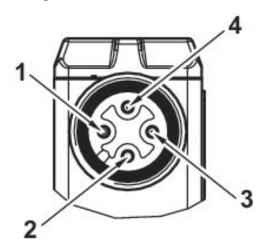








Pin assignments



¹⁾ not assigned 2) Coil 12 3) 0 V DC 4) Coil 14