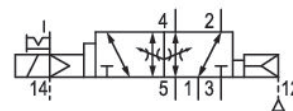
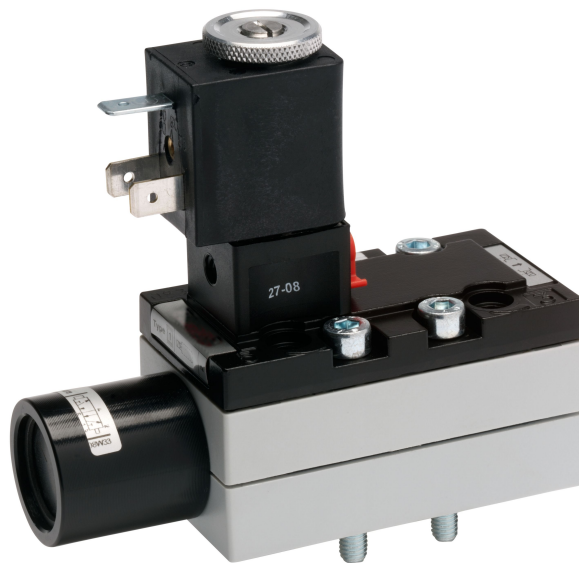


5811613600

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

1400 l/min

Switching principle

5/2, with air spring return

Compressed air connection output

Base plate ISO 5599-1

Min. working pressure

-0.95 bar

Max. working pressure

10 bar

Operational voltage

48 V DC

Operational voltage DC

48 V

Voltage tolerance DC

-10% / +10%

Manual override

with detent

Electrical connection type

Plug

Electrical connection size

Form B, industry

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

5/2-directional valve, Series 581, size 1

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Connection type	Plate connection
Return	with air spring return
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	5.2 l/(s*bar)
Throttle	with throttle
Frame size	ISO 1
Min. control pressure	1.3 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 size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	30 ms
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.26 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Part No.	5811613600

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.

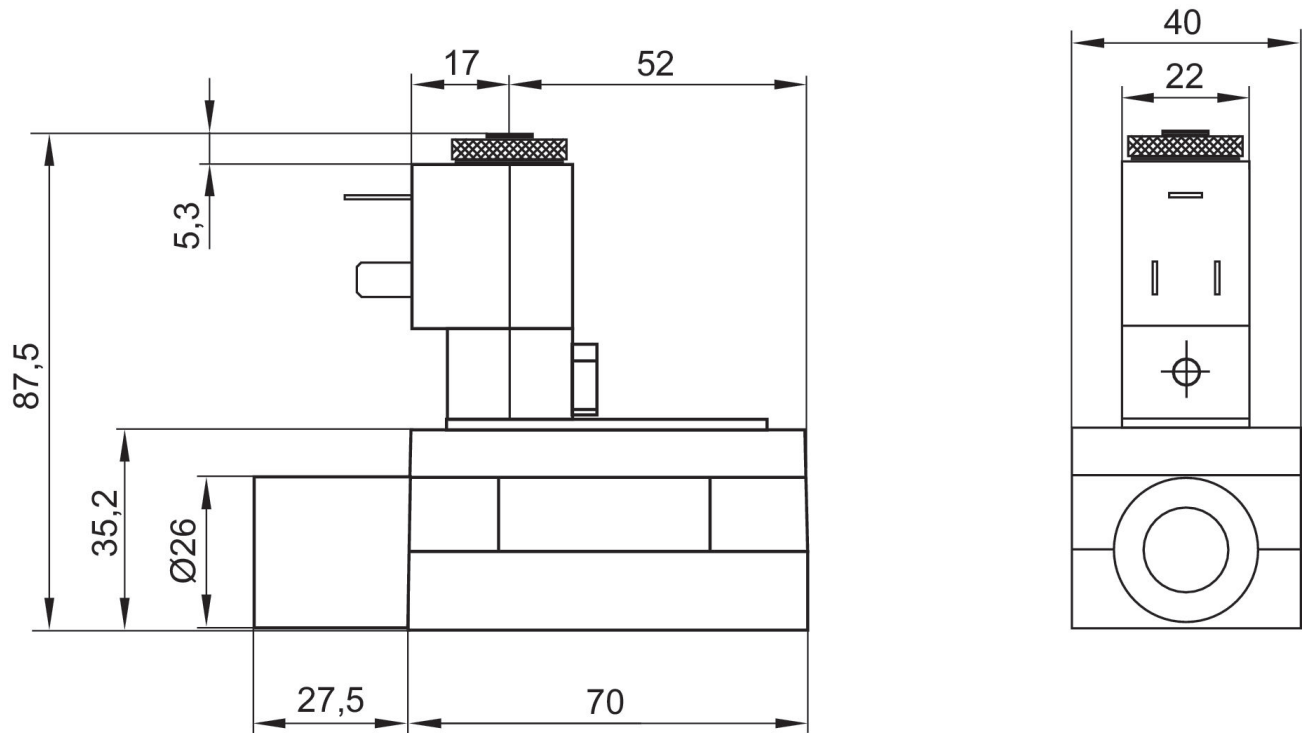
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in <https://www.emerson.com/en-us/support>).

5/2-directional valve, Series 581, size 1

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Dimensions



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