

5/2-directional valve, Series 581, size 1, Min. Single Solenoid, control pressure: 3 bar

5811172440

Series 581,
size 1

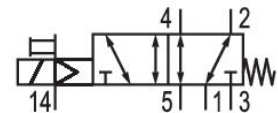
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AVENTICS Series 581 - Size 1 Standardized valves

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.

$Q_n = 950 \dots 1400 \text{ l/min}$

- Standardized valve system
- ISO size 1 to 4 available
- Robust Construction
- Numerous voltage ranges
- Pressure range up to 16 bar possible
- CNOMO interface
- Small dimensions
- Fast shifting times
- Easy and flexible custom specific configurations via online configurator



Technical data

Industry

Activation

Nominal flow Q_n

Switching principle

Compressed air connection output

Min. working pressure

Max. working pressure

Operational voltage

Operational voltage AC at 50 Hz

Voltage tolerance AC 50 Hz

Manual override

Electrical connection type

Electrical connection size

Sealing principle

Pilot

Standards

Pilot valve width

Valve type

Blocking principle

Industrial

Electrically

1400 l/min

5/2, with spring return

Base plate ISO 5599-1

-0.95 bar

16 bar

230 V AC

230 V

-10 % / +10 %

without detent

Plug

EN 175301-803, form A

Soft seal

External

ISO 5599-1

30x22 mm CNOMO

Spool valve

Single base plate principle

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Connection type	Plate connection
Return	With 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
Holding power AC 50 Hz	10.8 VA
Switch-on power AC 50 Hz	15.2 VA
Flow conductance C	5.2 l/(s*bar)
Frame size	ISO 1
Min. control pressure	3 bar
Max. control pressure	16 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	15 ms
Typ. switch-off time	28 ms
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.35 kg
Housing material	Aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	5811172440

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.

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Dimensions

