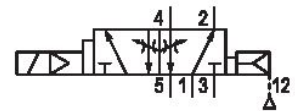


5811681000

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, double solenoid, with differential piston

Compressed air connection output

Base plate ISO 5599-1

Min. working pressure

-0.95 bar

Max. working pressure

16 bar

Sealing principle

Soft seal

Pilot

External

Internal

Standards

ISO 5599-1

Pilot valve width

30 mm

Valve type

Spool valve

Blocking principle

Single base plate principle

Connection type

Plate connection

Return

Air return with differential piston

Compressed air connection input

Base plate ISO 5599-1

Compressed air connection, exhaust

Base plate ISO 5599-1

Flow conductance C

5.2 l/(s*bar)

Throttle

with throttle

5811681000

Basic valve equipment	Basic valve without pilot valve
Min. control pressure	1.3 bar
Max. control pressure	16 bar
Min. ambient temperature	-20 °C
Max. ambient temperature	70 °C
Min. medium temperature	-20 °C
Max. medium temperature	70 °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 %
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.21 kg
Housing material	Aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	5811681000

Technical information

* Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil. ATEX ID: see ATEX coils catalog page.

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

2023-11-28

5811681000

Dimensions

