

5/2-directional valve, Series 581, size 2, Basic valve for CNOMO pilot valve

5813180000

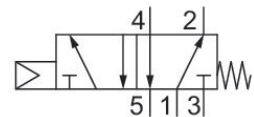
Series 581,
size 3

2025-10-23

ISO 5599-1, size 3, series 581

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.

- Standardized valve system
- ISO size 1 to 4 available
- 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	Industrial
Activation	Electrically
Nominal flow Qn	4800 l/min
Switching principle	5/2, with spring return
Compressed air connection output	Base plate ISO 5599-1
Min. working pressure	-0.95 bar
Max. working pressure	16 bar
Actuating control	Single Solenoid
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	With spring return
Compressed air connection input	Base plate ISO 5599-1
Compressed air connection, exhaust	Base plate ISO 5599-1
Flow conductance C	18.9 l/(s*bar)

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Basic valve equipment	Basic valve without pilot valve
Frame size	ISO 3
Min. control pressure	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	10 Nm
Weight	0.85 kg
Housing material	Aluminum
Seal material	Acrylonitrile butadiene rubber
Part No.	5813180000

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>).

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Dimensions

