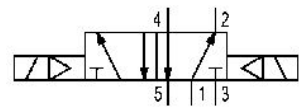


## AVENTICS Series 581 - Size 1 Standardized valves

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

Sealing principle

Pilot

Standards

Pilot valve width

Valve type

Blocking principle

Connection type

Compressed air connection input

Compressed air connection, exhaust

Flow conductance C

Basic valve equipment

Frame size

Industrial

Electrically

1400 l/min

5/2, double solenoid

Base plate ISO 5599-1

-0.95 bar

16 bar

Soft seal

External

Internal

ISO 5599-1

30 mm

Spool valve

Single base plate principle

Plate connection

Base plate ISO 5599-1

Base plate ISO 5599-1

5.2 l/(s\*bar)

Basic valve without pilot valve

ISO 1

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

5811280000

Series 581,  
size 1

2026-06-29

|                                    |                                |
|------------------------------------|--------------------------------|
| Min. control pressure              | 1.5 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 <sup>3</sup>            |
| Max. oil content of compressed air | 5 mg/m <sup>3</sup>            |
| 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.                           | 5811280000                     |

## Technical information

\*) Note: ATEX variants can be manufactured by combining the basic valve without a coil with a CNOMO pilot valve, series DO30, and an ATEX coil. ATEX ID: see ATEX coils catalog sheet.

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.

## Dimensions

