

# 5/2-directional valve, Series 581, size 4, Single Air Pilot, with differential piston

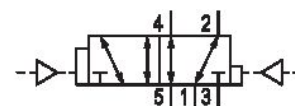
5814630100

581 ISO 4

2025-12-18

## ISO 5599-1, size 4, series 581

Q<sub>n</sub> = 1400 l/min



## Technical data

Industry

Industrial

Activation

Pneumatically

Switching principle

5/2, with air spring return

Connection type

Plate connection

Nominal flow Q<sub>n</sub>

6000 l/min

Compressed air connection output

Base plate ISO 5599-1

Min. working pressure

-0.95 bar

Max. working pressure

16 bar

Sealing principle

Soft seal

ATEX

ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards

ISO 5599-1

Valve type

Spool valve

Version

ISO 4

Can be assembled into blocks

Can be assembled into blocks

Blocking principle

Single base plate principle

Min. control pressure

1.5 bar

Max. control pressure

16 bar

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|                                    |                                |
|------------------------------------|--------------------------------|
| 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>            |
| Compressed air connection input    | Base plate ISO 5599-1          |
| Flow conductance C                 | 24.5 l/(s*bar)                 |
| Mounting screw                     | with hexagon socket            |
| Mounting screw tightening torque   | 10 Nm                          |
| Weight                             | 1.28 kg                        |
| Housing material                   | Aluminum                       |
| Seal material                      | Acrylonitrile butadiene rubber |
| Part No.                           | 5814630100                     |

## 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>).

## Dimensions

