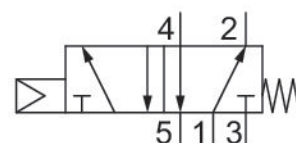


# 5/2-directional valve, Series 581, size 3

## 5813180100

ISO 5599-1, size 3, series 581

■  $Q_n = 4100 \dots 4800 \text{ l/min}$



### Technical data

Industry

Industrial

Activation

Electrically

Nominal flow  $Q_n$

4800 l/min

Switching principle

5/2

Compressed air connection output

Base plate ISO 5599-1

Working pressure min.

-0.95 bar

Working pressure max

16 bar

Actuating control

Single Solenoid

Sealing principle

Soft Seal

Pilot

External

Internal

ATEX

ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

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)

basic valve with electrical connector  
Basic valve without pilot valve

Frame size  
ISO 3

Control pressure min.  
3 bar

Control pressure max.  
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

Oil content of compressed air min.  
0 mg/m<sup>3</sup>

Oil content of compressed air max.  
5 mg/m<sup>3</sup>

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.  
5813180100

## 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 under 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

