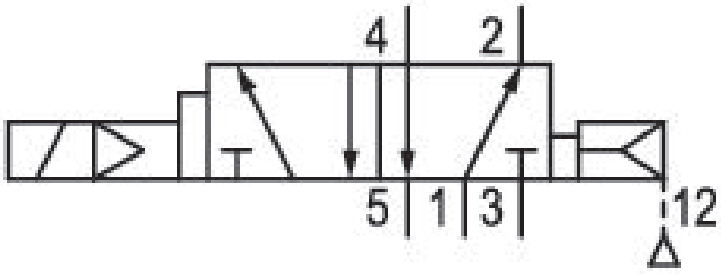
5/2-directional valve, Series 581, size 3

5813680100

ISO 5599-1, size 3, series 581

- Qn = 4100 ... 4800 l/min



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
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

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 air 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.
1.5 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/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

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.
5813680100

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.

Differential piston, signal 14 has priority

The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

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