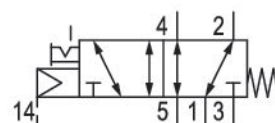


5/2-directional valve, Series 581, size 3

5813112000

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.
10 bar

Voltage tolerance AC 50 Hz
-10% / +10%

Manual override
with detent

Electrical connection type
Plug

Electrical connection size
Form B, industry

Actuating control
Single Solenoid

Sealing principle
Soft Seal

Pilot
External

Standards
ISO 5599-1

Pilot valve width
22 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type Plate connection	Medium Compressed air
Return With spring return	Max. particle size 50 µm
Compressed air connection input Base plate ISO 5599-1	Oil content of compressed air min. 0 mg/m ³
Compressed air connection, exhaust Base plate ISO 5599-1	Oil content of compressed air max. 5 mg/m ³
Compressed air connection pilot exhaust M5	Protection class with connection IP65
Flow conductance C 18.9 l/(s*bar)	Duty cycle 100 %
basic valve with electrical connector Basic valve without coil	Typ. switch-on time 19 ms
Frame size ISO 3	Typ. switch-off time 71 ms
Control pressure min. 3 bar	mounting screws with hexagon socket
Control pressure max. 10 bar	Mounting screw tightening torque 10 Nm
Min. ambient temperature -15 °C	Weight 0.93 kg
Max. ambient temperature 50 °C	Housing material Aluminum
Min. medium temperature -15 °C	Seal material Acrylonitrile butadiene rubber
Max. medium temperature 50 °C	Part No. 5813112000

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 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



The pilot valves can be loosened and turned through 180°.