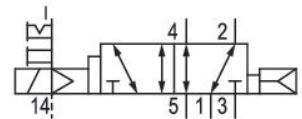


# 5/2-directional valve, Series 581, size 3

## 5813672450

ISO 5599-1, size 3, series 581

- $Q_n = 4100 \dots 4800$  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

Operational voltage AC at 50 Hz  
230 V

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

Manual override  
with detent  
without detent

Electrical connection type  
Plug

Electrical connection size  
EN 175301-803, form A

Sealing principle  
Soft Seal

Pilot  
External

Standards  
ISO 5599-1

Pilot valve width  
30x22 mm CNOMO

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	Oil content of compressed air min. 0 mg/m <sup>3</sup>
Compressed air connection pilot exhaust M5	Oil content of compressed air max. 5 mg/m <sup>3</sup>
Holding power AC 50 Hz 4.8 VA	Protection class with connection IP65
Switch-on power AC 50 Hz 7 VA	Compatibility index 14
Flow conductance C 18.9 l/(s*bar)	Duty cycle 100 %
Frame size ISO 3	Typ. switch-on time 24 ms
Control pressure min. 1.5 bar	Typ. switch-off time 66 ms
Control pressure max. 10 bar	mounting screws with hexagon socket
Min. ambient temperature -15 °C	Mounting screw tightening torque 10 Nm
Max. ambient temperature 50 °C	Weight 0.99 kg
Min. medium temperature -15 °C	Housing material Aluminum
Max. medium temperature 50 °C	Seal material Acrylonitrile butadiene rubber
Medium Compressed air	Part No. 5813672450
Max. particle size 50 µm	

## Technical information

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

