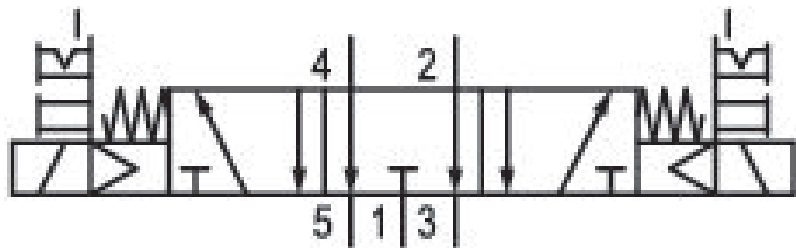


5/3-directional valve, Series 581, size 2

5812590650

ISO 5599-1, size 2, series 581

- $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry

Industrial

Activation

Electrically

Nominal flow Q_n

2100 l/min

Switching principle

5/3

Version

Exhausted Center

Compressed air connection output

Base plate ISO 5599-1

Working pressure min.

3 bar

Working pressure max

10 bar

DC operating voltage

24 V

Voltage tolerance DC

-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	Max. medium temperature
Internal	50 °C
Standards	Medium
ISO 5599-1	Compressed air
Pilot valve width	Max. particle size
30x22 mm CNOMO	50 µm
Valve type	Oil content of compressed air min.
Spool valve	0 mg/m ³
Blocking principle	Oil content of compressed air max.
Single base plate principle	5 mg/m ³
Connection type	Protection class with connection
Plate connection	IP65
Compressed air connection input	Compatibility index
Base plate ISO 5599-1	14
Compressed air connection, exhaust	Duty cycle
Base plate ISO 5599-1	100 %
Compressed air connection pilot exhaust	Typ. switch-on time
M5	17 ms
Power consumption DC	Typ. switch-off time
2 W	36 ms
Flow conductance C	mounting screws
8.9 l/(s*bar)	with hexagon socket
Frame size	Mounting screw tightening torque
ISO 2	3.5 Nm
Control pressure min.	Weight
3 bar	0.71 kg
Control pressure max.	Housing material
10 bar	Aluminum
Min. ambient temperature	Seal material
-15 °C	Acrylonitrile butadiene rubber
Max. ambient temperature	Part No.
50 °C	5812590650
Min. medium temperature	
-15 °C	

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

