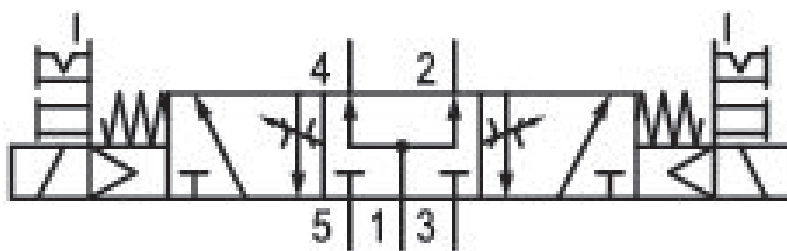


5/3-directional valve, Series 581, size 3

5813791450

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
4100 l/min

Switching principle
5/3

Version
Pressurized Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
3 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
Internal

Standards
ISO 5599-1

Pilot valve width
30x22 mm CNOMO

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type

Plate connection

Compressed air connection input

Base plate ISO 5599-1

Compressed air connection, exhaust

Base plate ISO 5599-1

Compressed air connection pilot exhaust

M5

Holding power AC 50 Hz

4.8 VA

Switch-on power AC 50 Hz

7 VA

Flow conductance C

14.1 l/(s*bar)

Throttle

with throttle

Frame size

ISO 3

Control pressure min.

3 bar

Control pressure max.

10 bar

Min. ambient temperature

-15 °C

Max. ambient temperature

50 °C

Min. medium temperature

-15 °C

Max. medium temperature

50 °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

Protection class with connection

IP65

Compatibility index

14

Duty cycle

100 %

Typ. switch-on time

22 ms

Typ. switch-off time

61 ms

mounting screws

with hexagon socket

Mounting screw tightening torque

10 Nm

Weight

1.14 kg

Housing material

Aluminum

Seal material

Acrylonitrile butadiene rubber

Part No.

5813791450

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

