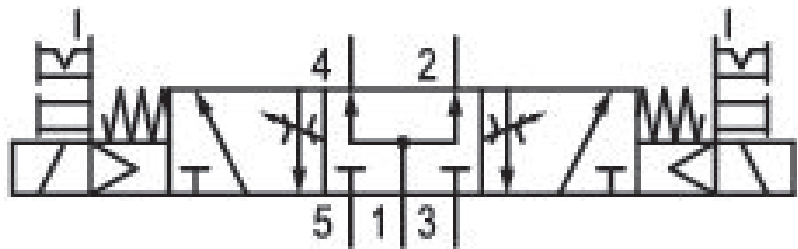


5/3-directional valve, Series 581, size 3

5813791650

ISO 5599-1, size 3, series 581

■ $Q_n = 4100 \dots 4800$ 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

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
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 | 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 |
| Power consumption DC 2 W | Compatibility index 14 |
| Flow conductance C 14.1 l/(s*bar) | Duty cycle 100 % |
| Throttle with throttle | Typ. switch-on time 22 ms |
| Frame size ISO 3 | Typ. switch-off time 61 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 1.14 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. 5813791650 |
| Medium Compressed air | |

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

