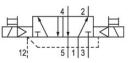
AVENTICS Series 581 - Size 1 Standardized valves

The AVENTICS series 581 complies with the ISO 5599-1 valve standard. Due to the high degree of modularity, the series offers all valve functions, integrated throttle valves, various pilot coils and an extensive range of accessories. Qn = 950 ... 1400 l/min





Technical data	
Industry	Indu
Activation	Elec
Nominal flow Qn	1400
Switching principle	5/2,
Compressed air connection output	Base
Min. working pressure	-0.95
Max. working pressure	10 b
Operational voltage	24 V
Operational voltage DC	24 V
Voltage tolerance DC	-10%
Manual override	witho
Electrical connection type	Plug
Electrical connection size	M12
Electrical connection number of poles	4-pir
Actuating control	Doul
Sealing principle	Soft
Pilot	Inter
Standards	ISO
Pilot valve width	22 m

ustrial ctrically 0 l/min double solenoid e plate ISO 5599-1 5 bar bar V DC V % / +10% out detent g 2 n Ible Solenoid seal rnal 5599-1 пm



5/2-directional valve, Series 581, size 1

5811220720

Valve type Blocking principle	Spool valve 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
Power consumption DC	0.35 W
Flow conductance C	5.2 l/(s*bar)
Frame size	ISO 1
Min. control pressure	3 bar
Max. control pressure	10 bar
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Min. medium temperature	0 °C
Max. medium temperature	50 °C
Medium	Compressed air
Max. particle size	5 µm
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	12 ms
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.3 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Part No.	5811220720

2023-11-28

Technical information

Switch-on power: 1 W for 40 ms

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 less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

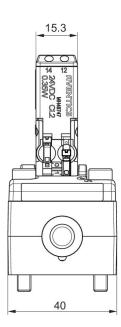
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

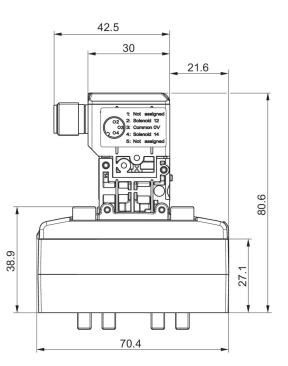


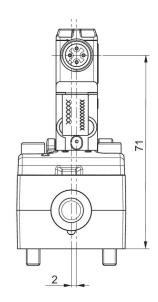
5/2-directional valve, Series 581, size 1

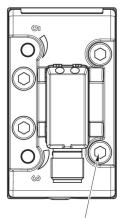
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Dimensions









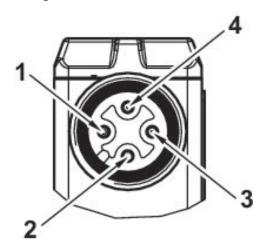
Ma: 2.0^{±0.3} Nm (4x)



5/2-directional valve, Series 581, size 1

5811220720

Pin assignments



1) not assigned 2) Coil 12 3) 0 V DC 4) Coil 14

