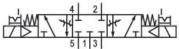
AVENTICS Series 581 - Size 1 Standardized valves

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 = $950 \dots 1400 \text{ l/min}$





Technical data Industry Activation Nominal flow Qn Switching principle Version Compressed air connection output Min. working pressure Max. working pressure **Operational voltage** Operational voltage AC at 60 Hz Voltage tolerance AC 60 Hz Manual override Electrical connection type Electrical connection size Sealing principle Pilot Standards Pilot valve width Valve type

Industrial Electrically 1100 l/min 5/3, closed center **Closed Center** Base plate ISO 5599-1 3 bar 10 bar 110 V AC 110 V -10% / +10% with detent Plug Form B, industry Soft seal Internal ISO 5599-1 22 mm Spool valve



5/3-directional valve, Series 581, size 1

5811421300

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 60 Hz	8 VA
Switch-on power AC 60 Hz	10 VA
Flow conductance C	4.3 l/(s*bar)
Throttle	with throttle
Frame size	ISO 1
Min. control pressure	3 bar
Max. control pressure	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
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	15 ms
Typ. switch-off time	29 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.	5811421300

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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 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.

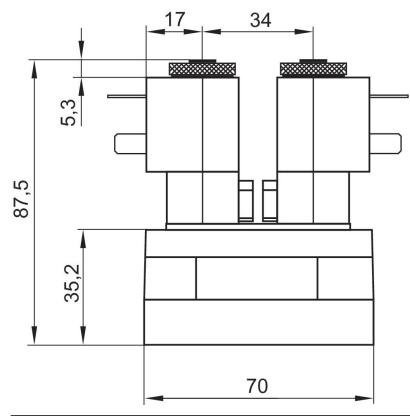
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

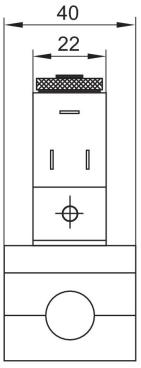


5/3-directional valve, Series 581, size 1

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Dimensions





The pilot valves can be loosened and turned through 180°.



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