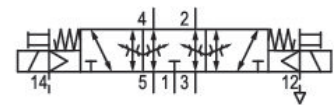
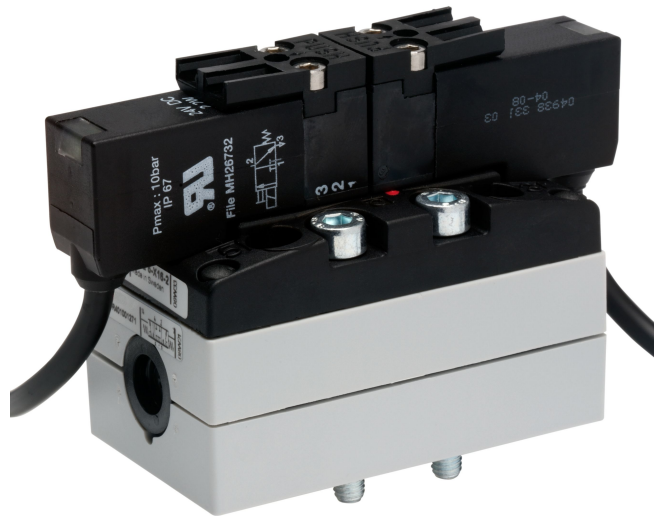


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AVENTICS Series 581 - Size 1 Standardized valves

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	Industrial
Activation	Electrically
Nominal flow Qn	1100 l/min
Switching principle	5/3, exhausted center
Version	Exhausted Center
Compressed air connection output	Base plate ISO 5599-1
Min. working pressure	-0.95 bar
Max. working pressure	10 bar
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10% / +10%
Manual override	without detent
Electrical connection type	Plug
Electrical connection number of poles	3-pin
Sealing principle	Soft seal
Pilot	External
Standards	ISO 5599-1
Pilot valve width	15 mm
Valve type	Spool valve

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

2023-11-28

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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 input	Base plate ISO 5599-1
Compressed air connection pilot exhaust	Base plate ISO 5599-1
Power consumption DC	2.2 W
Flow conductance C	4.3 l/(s*bar)
Throttle	with throttle
Cable length	0.5 m
Frame size	ISO 1
Min. control pressure	3 bar
Max. control pressure	10 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Protection class with connection	IP67
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Green
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	22 ms
Mounting screws	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.22 kg
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Part No.	5811563160

Technical information

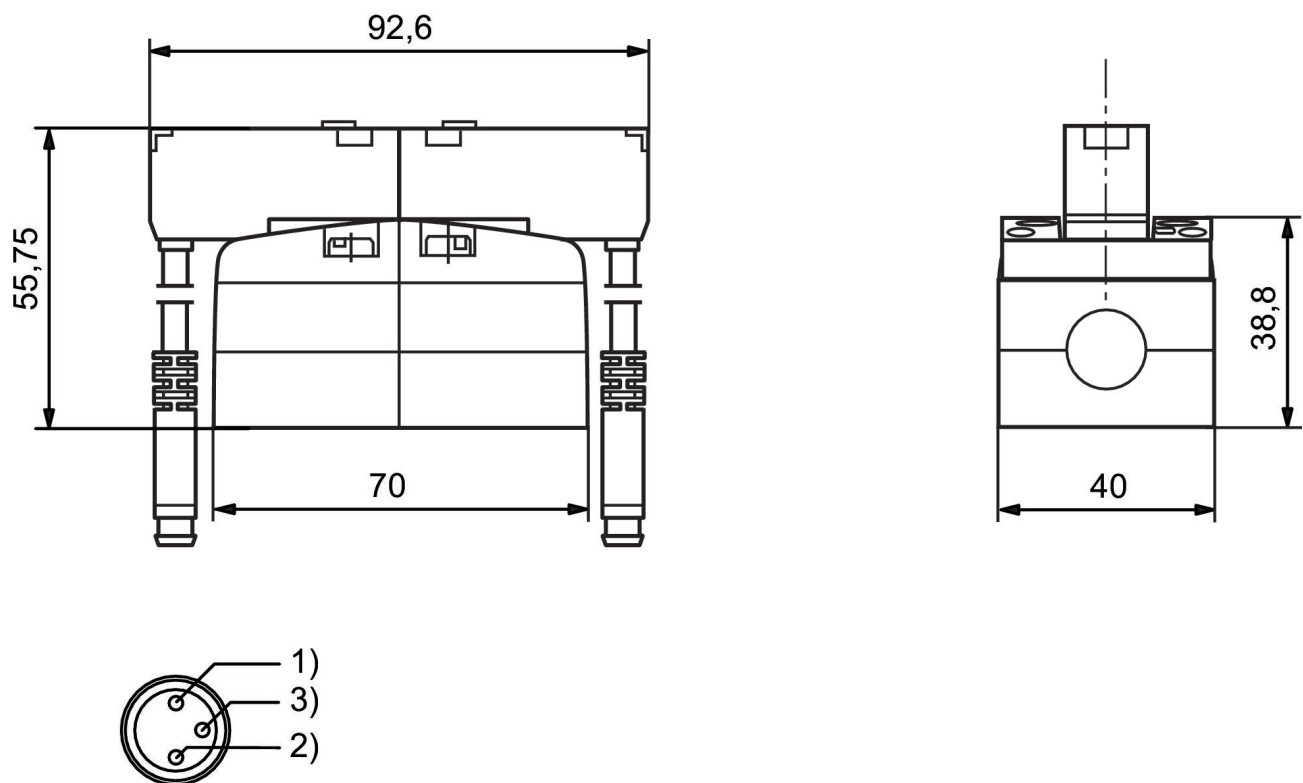
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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>).

Dimensions



Pin assignment 1) brown (+24 V) 2) green/yellow (ground) 3) blue (0 V)