

5/2-directional valve, Series 581, size 3

- ISO 5599-1
- ISO 3
- 5/2
- With spring return
- single solenoid
- Qn = 4800 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 3
Working pressure min./max.	See table below
Control pressure min./max.	3 ... 16 bar
Ambient temperature min./max.	-15 ... 50 °C
Medium temperature min./max.	-15 ... 50 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	4800 l/min
Flow conductance C	18,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	24 ms
Typ. switch-off time	66 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	0,99 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5813170540			24 V	42 V
5813170440			-	230 V
5813171540			24 V	42 V
5813171440			-	230 V
5813172540			24 V	42 V
5813172440			-	230 V
5813173540			24 V	42 V
5813173440			-	230 V

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz
5813170540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5813170440	-	-10% / +10%	-	10,8 VA
5813171540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5813171440	-	-10% / +10%	-	10,8 VA
5813172540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5813172440	-	-10% / +10%	-	10,8 VA
5813173540	-10% / +10%	-10% / +10%	6,7 W	7,7 VA
5813173440	-	-10% / +10%	-	10,8 VA

Part No.	Switch-on power AC 50 Hz	Pilot	Working pressure min./max.
5813170540	12 VA	Internal	3 ... 16 bar
5813170440	15,2 VA	Internal	3 ... 16 bar
5813171540	12 VA	Internal	3 ... 16 bar
5813171440	15,2 VA	Internal	3 ... 16 bar
5813172540	12 VA	External	-0,95 ... 16 bar
5813172440	15,2 VA	External	-0,95 ... 16 bar
5813173540	12 VA	External	-0,95 ... 16 bar
5813173440	15,2 VA	External	-0,95 ... 16 bar

Part No.	Electrical connection Pilot valve	Throttle
5813170540	Plug EN 175301-803, form A	-
5813170440	Plug EN 175301-803, form A	-
5813171540	Plug EN 175301-803, form A	with throttle
5813171440	Plug EN 175301-803, form A	with throttle
5813172540	Plug EN 175301-803, form A	-
5813172440	Plug EN 175301-803, form A	-
5813173540	Plug EN 175301-803, form A	with throttle
5813173440	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

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.

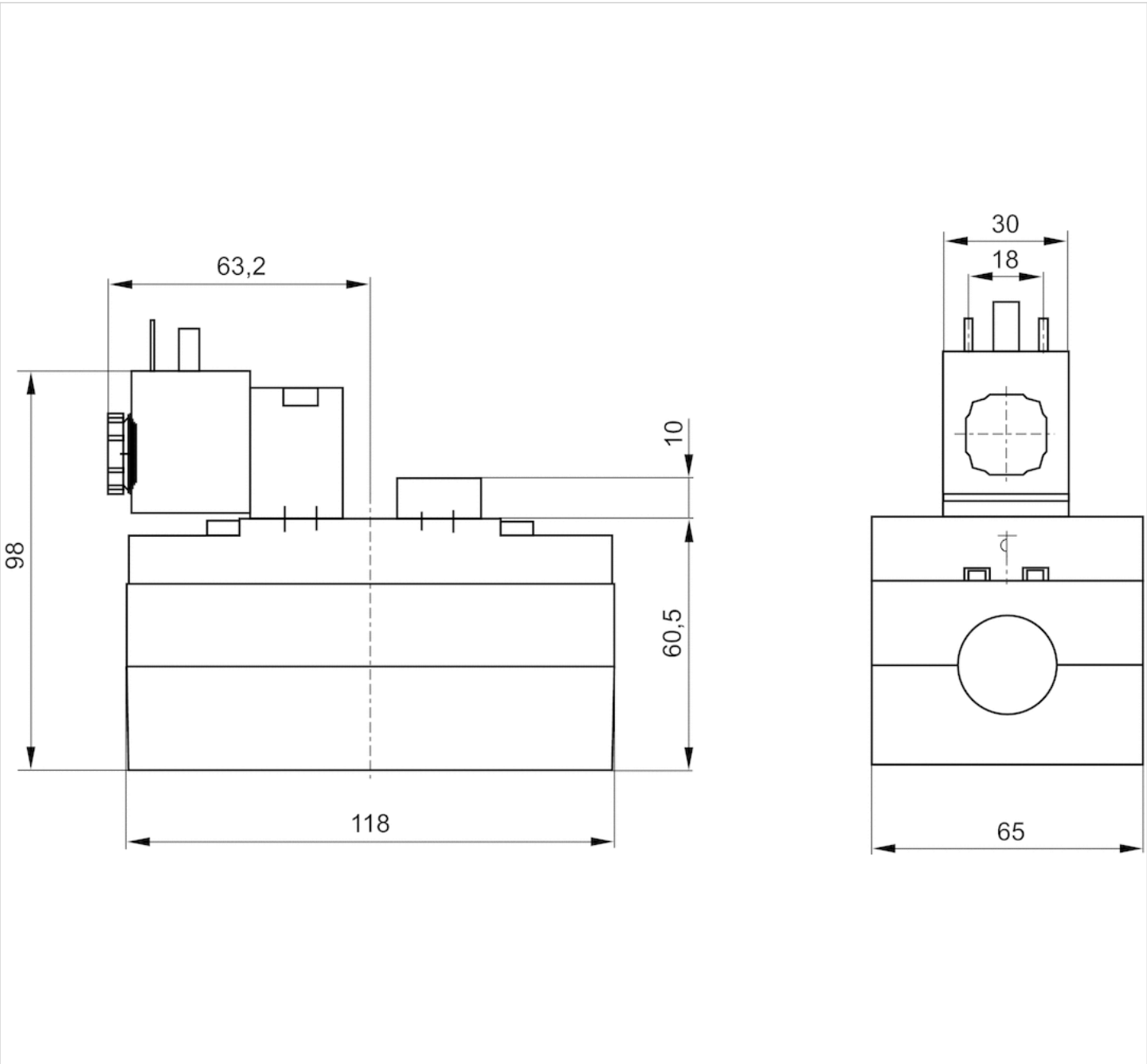
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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