

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

- ISO 5599-1
- ISO 3
- 5/3
- $Q_n = 4100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Version	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 ... 10 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/m ³
Nominal flow Q_n	4100 l/min
Flow conductance C	14,1 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	25 ms
Typ. switch-off time	40 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,01 kg

Technical data

Part No.	MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5813720500		12 V	-	-
5813720200		-	24 V	-
5813720100		24 V	-	-
5813720600		48 V	-	-
5813720300		-	-	110 V
5813720400		-	230 V	-
5813720000		-	-	-
5813721500		12 V	-	-
5813721200		-	24 V	-
5813721100		24 V	-	-
5813721600		48 V	-	-
5813721300		-	-	110 V
5813721400		-	230 V	-
5813721000		-	-	-
5813722500		12 V	-	-
5813722200		-	24 V	-
5813722100		24 V	-	-
5813722600		48 V	-	-
5813722300		-	-	110 V
5813722400		-	230 V	-
5813722000		-	-	-
5813723500		12 V	-	-
5813723200		-	24 V	-
5813723100		24 V	-	-
5813723600		48 V	-	-
5813723300		-	-	110 V
5813723400		-	230 V	-
5813723000		-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5813720500	-10% / +10%	-	-	5 W
5813720200	-	-10% / +10%	-	-
5813720100	-10% / +10%	-	-	5 W
5813720600	-10% / +10%	-	-	5 W
5813720300	-	-	-10% / +10%	-
5813720400	-	-10% / +10%	-	-
5813720000	-	-	-	-
5813721500	-10% / +10%	-	-	5 W
5813721200	-	-10% / +10%	-	-
5813721100	-10% / +10%	-	-	5 W
5813721600	-10% / +10%	-	-	5 W
5813721300	-	-	-10% / +10%	-
5813721400	-	-10% / +10%	-	-
5813721000	-	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5813722500	-10% / +10%	-	-	5 W
5813722200	-	-10% / +10%	-	-
5813722100	-10% / +10%	-	-	5 W
5813722600	-10% / +10%	-	-	5 W
5813722300	-	-	-10% / +10%	-
5813722400	-	-10% / +10%	-	-
5813722000	-	-	-	-
5813723500	-10% / +10%	-	-	5 W
5813723200	-	-10% / +10%	-	-
5813723100	-10% / +10%	-	-	5 W
5813723600	-10% / +10%	-	-	5 W
5813723300	-	-	-10% / +10%	-
5813723400	-	-10% / +10%	-	-
5813723000	-	-	-	-

Part No.	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5813720500	-	-	-	-	internal
5813720200	8 VA	-	10 VA	-	internal
5813720100	-	-	-	-	internal
5813720600	-	-	-	-	internal
5813720300	-	8 VA	-	10 VA	internal
5813720400	8 VA	-	10 VA	-	internal
5813720000	-	-	-	-	internal
5813721500	-	-	-	-	internal
5813721200	8 VA	-	10 VA	-	internal
5813721100	-	-	-	-	internal
5813721600	-	-	-	-	internal
5813721300	-	8 VA	-	10 VA	internal
5813721400	8 VA	-	10 VA	-	internal
5813721000	-	-	-	-	internal
5813722500	-	-	-	-	external
5813722200	8 VA	-	10 VA	-	external
5813722100	-	-	-	-	external
5813722600	-	-	-	-	external
5813722300	-	8 VA	-	10 VA	external
5813722400	8 VA	-	10 VA	-	external
5813722000	-	-	-	-	external
5813723500	-	-	-	-	external
5813723200	8 VA	-	10 VA	-	external
5813723100	-	-	-	-	external
5813723600	-	-	-	-	external
5813723300	-	8 VA	-	10 VA	external
5813723400	8 VA	-	10 VA	-	external
5813723000	-	-	-	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5813720500	3 ... 10 bar	Plug Form B, industry
5813720200	3 ... 10 bar	Plug Form B, industry
5813720100	3 ... 10 bar	Plug Form B, industry
5813720600	3 ... 10 bar	Plug Form B, industry
5813720300	3 ... 10 bar	Plug Form B, industry
5813720400	3 ... 10 bar	Plug Form B, industry
5813720000	3 ... 10 bar	Plug Form B, industry
5813721500	3 ... 10 bar	Plug Form B, industry
5813721200	3 ... 10 bar	Plug Form B, industry
5813721100	3 ... 10 bar	Plug Form B, industry
5813721600	3 ... 10 bar	Plug Form B, industry
5813721300	3 ... 10 bar	Plug Form B, industry
5813721400	3 ... 10 bar	Plug Form B, industry
5813721000	3 ... 10 bar	Plug Form B, industry
5813722500	-0,95 ... 10 bar	Plug Form B, industry
5813722200	-0,95 ... 10 bar	Plug Form B, industry
5813722100	-0,95 ... 10 bar	Plug Form B, industry
5813722600	-0,95 ... 10 bar	Plug Form B, industry
5813722300	-0,95 ... 10 bar	Plug Form B, industry
5813722400	-0,95 ... 10 bar	Plug Form B, industry
5813722000	-0,95 ... 10 bar	Plug Form B, industry
5813723500	-0,95 ... 10 bar	Plug Form B, industry
5813723200	-0,95 ... 10 bar	Plug Form B, industry
5813723100	-0,95 ... 10 bar	Plug Form B, industry
5813723600	-0,95 ... 10 bar	Plug Form B, industry
5813723300	-0,95 ... 10 bar	Plug Form B, industry
5813723400	-0,95 ... 10 bar	Plug Form B, industry
5813723000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5813720500	-	-
5813720200	-	-
5813720100	-	-
5813720600	-	-
5813720300	-	-
5813720400	-	-
5813720000	Basic valve without coil	-
5813721500	-	with throttle
5813721200	-	with throttle
5813721100	-	with throttle
5813721600	-	with throttle
5813721300	-	with throttle
5813721400	-	with throttle
5813721000	Basic valve without coil	with throttle
5813722500	-	-
5813722200	-	-



Part No.	basic valve with electrical connector	Throttle
5813722100	-	-
5813722600	-	-
5813722300	-	-
5813722400	-	-
5813722000	Basic valve without coil	-
5813723500	-	with throttle
5813723200	-	with throttle
5813723100	-	with throttle
5813723600	-	with throttle
5813723300	-	with throttle
5813723400	-	with throttle
5813723000	Basic valve without coil	with throttle

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

Technical information

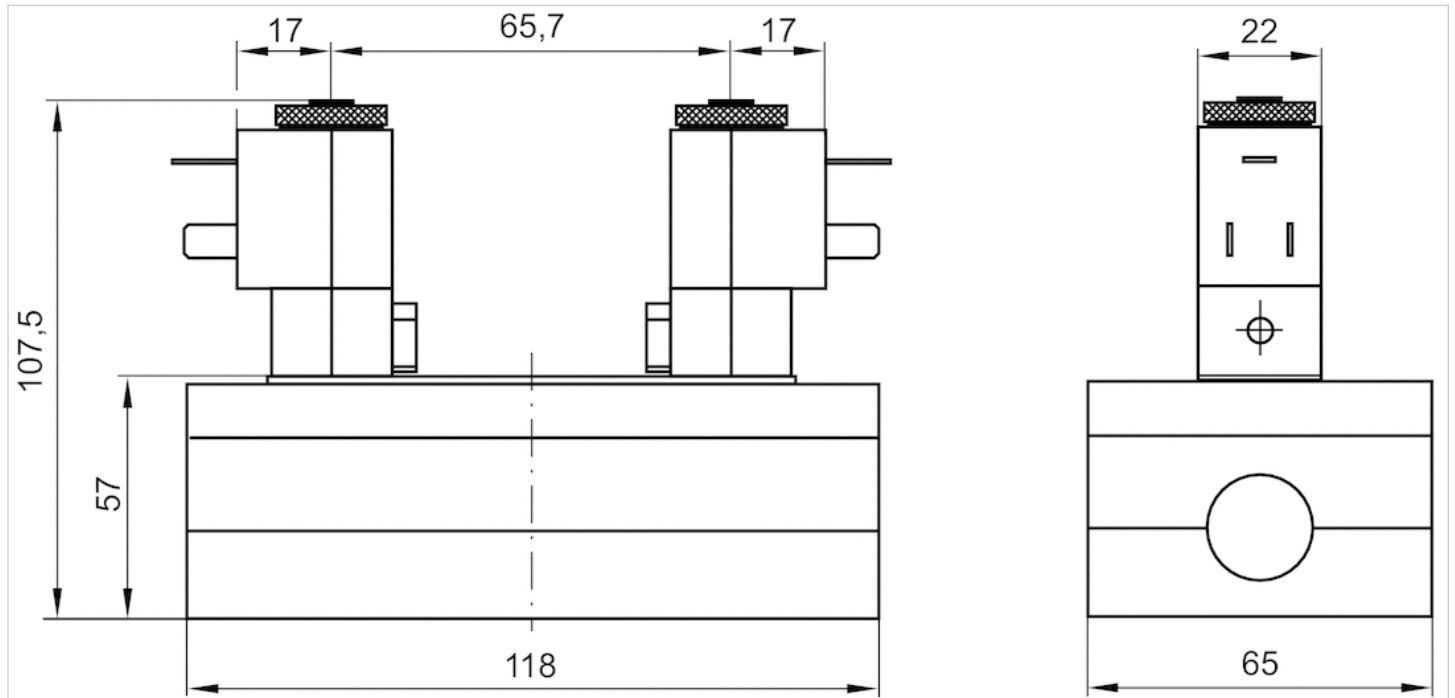
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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



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