

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

- ISO 5599-1
- ISO 1
- 5/3
- Qn = 1100 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 1
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 Qn	1100 l/min
Flow conductance C	4,3 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	22 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,3 kg

Technical data

Part No.	MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5811720500		12 V	-	-
5811720200		-	24 V	-
5811720100		24 V	-	-
5811720600		48 V	-	-
5811720300		-	-	110 V
5811720400		-	230 V	-
5811720000		-	-	-
5811721500		12 V	-	-
5811721200		-	24 V	-
5811721100		24 V	-	-
5811721600		48 V	-	-
5811721300		-	-	110 V
5811721400		-	230 V	-
5811721000		-	-	-
5811722500		12 V	-	-
5811722200		-	24 V	-
5811722100		24 V	-	-
5811722600		48 V	-	-
5811722300		-	-	110 V
5811722400		-	230 V	-
5811722000		-	-	-
5811723500		12 V	-	-
5811723200		-	24 V	-
5811723100		24 V	-	-
5811723600		48 V	-	-
5811723300		-	-	110 V
5811723400		-	230 V	-
5811723000		-	230 V	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5811720500	-10% / +10%	-	-	5 W
5811720200	-	-10% / +10%	-	-
5811720100	-10% / +10%	-	-	5 W
5811720600	-10% / +10%	-	-	5 W
5811720300	-	-	-10% / +10%	-
5811720400	-	-10% / +10%	-	-
5811720000	-	-	-	-
5811721500	-10% / +10%	-	-	5 W
5811721200	-	-10% / +10%	-	-
5811721100	-10% / +10%	-	-	5 W
5811721600	-10% / +10%	-	-	5 W
5811721300	-	-	-10% / +10%	-
5811721400	-	-10% / +10%	-	-
5811721000	-	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5811722500	-10% / +10%	-	-	5 W
5811722200	-	-10% / +10%	-	-
5811722100	-10% / +10%	-	-	5 W
5811722600	-10% / +10%	-	-	5 W
5811722300	-	-	-10% / +10%	-
5811722400	-	-10% / +10%	-	-
5811722000	-	-	-	-
5811723500	-10% / +10%	-	-	5 W
5811723200	-	-10% / +10%	-	-
5811723100	-10% / +10%	-	-	5 W
5811723600	-10% / +10%	-	-	5 W
5811723300	-	-	-10% / +10%	-
5811723400	-	-10% / +10%	-	-
5811723000	-	-10% / +10%	-	-

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
5811720500	-	-	-	-	internal
5811720200	8 VA	-	10 VA	-	internal
5811720100	-	-	-	-	internal
5811720600	-	-	-	-	internal
5811720300	-	8 VA	-	10 VA	internal
5811720400	8 VA	-	10 VA	-	internal
5811720000	-	-	-	-	internal
5811721500	-	-	-	-	internal
5811721200	8 VA	-	10 VA	-	internal
5811721100	-	-	-	-	internal
5811721600	-	-	-	-	internal
5811721300	-	8 VA	-	10 VA	internal
5811721400	8 VA	-	10 VA	-	internal
5811721000	-	-	-	-	internal
5811722500	-	-	-	-	external
5811722200	8 VA	-	10 VA	-	external
5811722100	-	-	-	-	external
5811722600	-	-	-	-	external
5811722300	-	8 VA	-	10 VA	external
5811722400	8 VA	-	10 VA	-	external
5811722000	-	-	-	-	external
5811723500	-	-	-	-	external
5811723200	8 VA	-	10 VA	-	external
5811723100	-	-	-	-	external
5811723600	-	-	-	-	external
5811723300	-	8 VA	-	10 VA	external
5811723400	8 VA	-	10 VA	-	external
5811723000	8 VA	-	10 VA	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5811720500	3 ... 10 bar	Plug Form B, industry
5811720200	3 ... 10 bar	Plug Form B, industry
5811720100	3 ... 10 bar	Plug Form B, industry
5811720600	3 ... 10 bar	Plug Form B, industry
5811720300	3 ... 10 bar	Plug Form B, industry
5811720400	3 ... 10 bar	Plug Form B, industry
5811720000	3 ... 10 bar	Plug Form B, industry
5811721500	3 ... 10 bar	Plug Form B, industry
5811721200	3 ... 10 bar	Plug Form B, industry
5811721100	3 ... 10 bar	Plug Form B, industry
5811721600	3 ... 10 bar	Plug Form B, industry
5811721300	3 ... 10 bar	Plug Form B, industry
5811721400	3 ... 10 bar	Plug Form B, industry
5811721000	3 ... 10 bar	Plug Form B, industry
5811722500	-0,95 ... 10 bar	Plug Form B, industry
5811722200	-0,95 ... 10 bar	Plug Form B, industry
5811722100	-0,95 ... 10 bar	Plug Form B, industry
5811722600	-0,95 ... 10 bar	Plug Form B, industry
5811722300	-0,95 ... 10 bar	Plug Form B, industry
5811722400	-0,95 ... 10 bar	Plug Form B, industry
5811722000	-0,95 ... 10 bar	Plug Form B, industry
5811723500	-0,95 ... 10 bar	Plug Form B, industry
5811723200	-0,95 ... 10 bar	Plug Form B, industry
5811723100	-0,95 ... 10 bar	Plug Form B, industry
5811723600	-0,95 ... 10 bar	Plug Form B, industry
5811723300	-0,95 ... 10 bar	Plug Form B, industry
5811723400	-0,95 ... 10 bar	Plug Form B, industry
5811723000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5811720500	-	-
5811720200	-	-
5811720100	-	-
5811720600	-	-
5811720300	-	-
5811720400	-	-
5811720000	Basic valve without coil	-
5811721500	-	with throttle
5811721200	-	with throttle
5811721100	-	with throttle
5811721600	-	with throttle
5811721300	-	with throttle
5811721400	-	with throttle
5811721000	Basic valve without coil	with throttle
5811722500	-	-
5811722200	-	-

Part No.	basic valve with electrical connector	Throttle
5811722100	-	-
5811722600	-	-
5811722300	-	-
5811722400	-	-
5811722000	Basic valve without coil	-
5811723500	-	with throttle
5811723200	-	with throttle
5811723100	-	with throttle
5811723600	-	with throttle
5811723300	-	with throttle
5811723400	-	with throttle
5811723000	Basic valve without coil	with throttle

Nominal flow Qn at 6 bar and $\Delta p = 1$ 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.

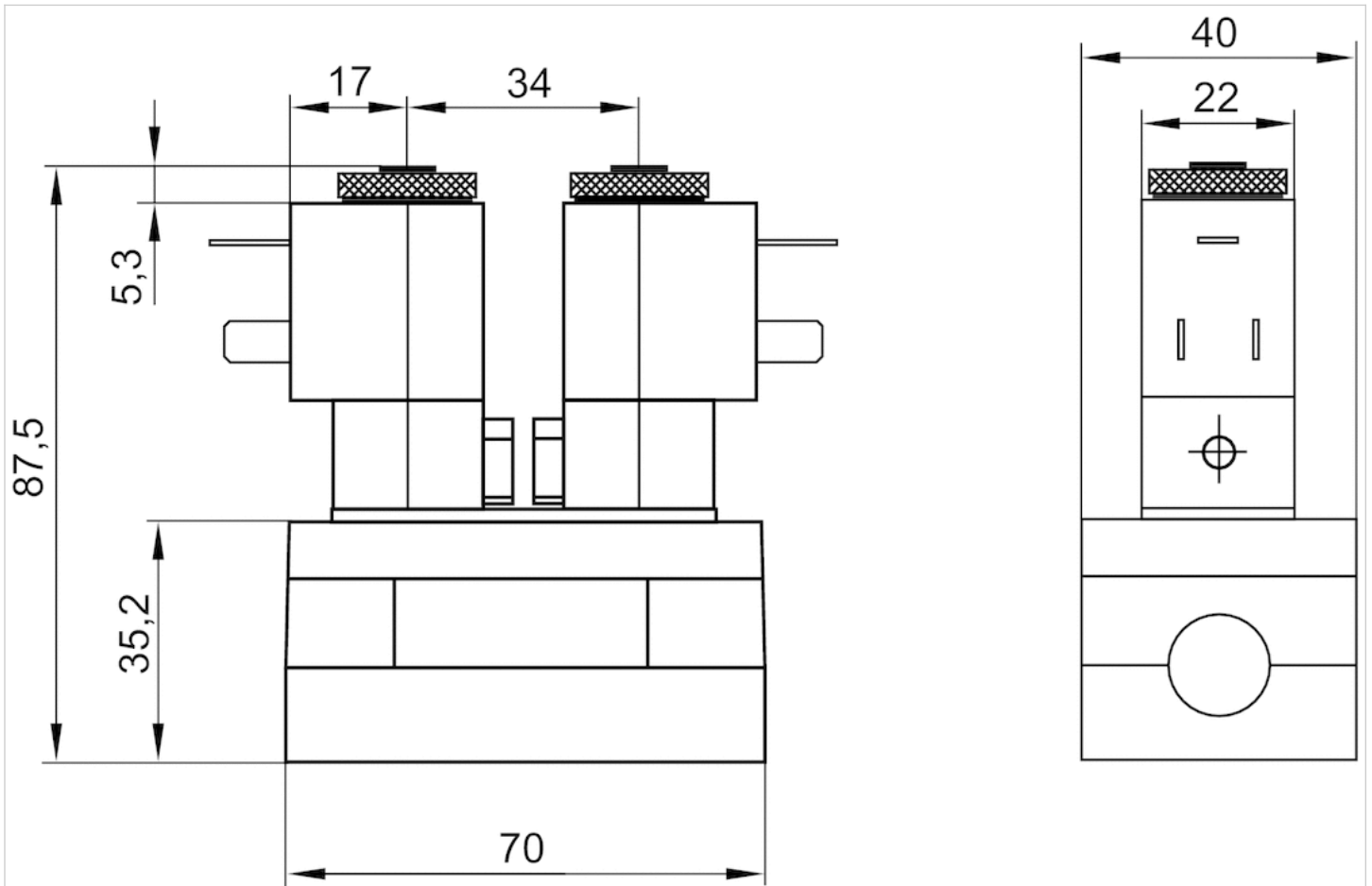
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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