

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

- ISO 5599-1
- ISO 2
- 5/3
- $Q_n = 2100$ 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 2
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	2100 l/min
Flow conductance C	8,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	25 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	4 Nm
Weight	0,42 kg

Technical data

Part No.	MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5812520500		12 V	-	-
5812520200		-	24 V	-
5812520100		24 V	-	-
5812520600		48 V	-	-
5812520300		-	-	110 V
5812520400		-	230 V	-
5812520000		-	-	-
5812521500		12 V	-	-
5812521200		-	24 V	-
5812521100		24 V	-	-
5812521600		48 V	-	-
5812521300		-	-	110 V
5812521400		-	230 V	-
5812521000		-	-	-
5812522500		12 V	-	-
5812522200		-	24 V	-
5812522100		24 V	-	-
5812522600		48 V	-	-
5812522300		-	-	110 V
5812522400		-	230 V	-
5812522000		-	-	-
5812523500		12 V	-	-
5812523200		-	24 V	-
5812523100		24 V	-	-
5812523600		48 V	-	-
5812523300		-	-	110 V
5812523400		-	230 V	-
5812523000		-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5812520500	-10% / +10%	-	-	5 W
5812520200	-	-10% / +10%	-	-
5812520100	-10% / +10%	-	-	5 W
5812520600	-10% / +10%	-	-	5 W
5812520300	-	-	-10% / +10%	-
5812520400	-	-10% / +10%	-	-
5812520000	-	-	-	-
5812521500	-10% / +10%	-	-	5 W
5812521200	-	-10% / +10%	-	-
5812521100	-10% / +10%	-	-	5 W
5812521600	-10% / +10%	-	-	5 W
5812521300	-	-	-10% / +10%	-
5812521400	-	-10% / +10%	-	-
5812521000	-	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5812522500	-10% / +10%	-	-	5 W
5812522200	-	-10% / +10%	-	-
5812522100	-10% / +10%	-	-	5 W
5812522600	-10% / +10%	-	-	5 W
5812522300	-	-	-10% / +10%	-
5812522400	-	-10% / +10%	-	-
5812522000	-	-	-	-
5812523500	-10% / +10%	-	-	5 W
5812523200	-	-10% / +10%	-	-
5812523100	-10% / +10%	-	-	5 W
5812523600	-10% / +10%	-	-	5 W
5812523300	-	-	-10% / +10%	-
5812523400	-	-10% / +10%	-	-
5812523000	-	-	-	-

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
5812520500	-	-	-	-	internal
5812520200	8 VA	-	10 VA	-	internal
5812520100	-	-	-	-	internal
5812520600	-	-	-	-	internal
5812520300	-	8 VA	-	10 VA	internal
5812520400	8 VA	-	10 VA	-	internal
5812520000	-	-	-	-	internal
5812521500	-	-	-	-	internal
5812521200	8 VA	-	10 VA	-	internal
5812521100	-	-	-	-	internal
5812521600	-	-	-	-	internal
5812521300	-	8 VA	-	10 VA	internal
5812521400	8 VA	-	10 VA	-	internal
5812521000	-	-	-	-	internal
5812522500	-	-	-	-	external
5812522200	8 VA	-	10 VA	-	external
5812522100	-	-	-	-	external
5812522600	-	-	-	-	external
5812522300	-	8 VA	-	10 VA	external
5812522400	8 VA	-	10 VA	-	external
5812522000	-	-	-	-	external
5812523500	-	-	-	-	external
5812523200	8 VA	-	10 VA	-	external
5812523100	-	-	-	-	external
5812523600	-	-	-	-	external
5812523300	-	8 VA	-	10 VA	external
5812523400	8 VA	-	10 VA	-	external
5812523000	-	-	-	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5812520500	3 ... 10 bar	Plug Form B, industry
5812520200	3 ... 10 bar	Plug Form B, industry
5812520100	3 ... 10 bar	Plug Form B, industry
5812520600	3 ... 10 bar	Plug Form B, industry
5812520300	3 ... 10 bar	Plug Form B, industry
5812520400	3 ... 10 bar	Plug Form B, industry
5812520000	3 ... 10 bar	Plug Form B, industry
5812521500	3 ... 10 bar	Plug Form B, industry
5812521200	3 ... 10 bar	Plug Form B, industry
5812521100	3 ... 10 bar	Plug Form B, industry
5812521600	3 ... 10 bar	Plug Form B, industry
5812521300	3 ... 10 bar	Plug Form B, industry
5812521400	3 ... 10 bar	Plug Form B, industry
5812521000	3 ... 10 bar	Plug Form B, industry
5812522500	-0,95 ... 10 bar	Plug Form B, industry
5812522200	-0,95 ... 10 bar	Plug Form B, industry
5812522100	-0,95 ... 10 bar	Plug Form B, industry
5812522600	-0,95 ... 10 bar	Plug Form B, industry
5812522300	-0,95 ... 10 bar	Plug Form B, industry
5812522400	-0,95 ... 10 bar	Plug Form B, industry
5812522000	-0,95 ... 10 bar	Plug Form B, industry
5812523500	-0,95 ... 10 bar	Plug Form B, industry
5812523200	-0,95 ... 10 bar	Plug Form B, industry
5812523100	-0,95 ... 10 bar	Plug Form B, industry
5812523600	-0,95 ... 10 bar	Plug Form B, industry
5812523300	-0,95 ... 10 bar	Plug Form B, industry
5812523400	-0,95 ... 10 bar	Plug Form B, industry
5812523000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812520500	-	-
5812520200	-	-
5812520100	-	-
5812520600	-	-
5812520300	-	-
5812520400	-	-
5812520000	Basic valve without coil	-
5812521500	-	with throttle
5812521200	-	with throttle
5812521100	-	with throttle
5812521600	-	with throttle
5812521300	-	with throttle
5812521400	-	with throttle
5812521000	Basic valve without coil	with throttle
5812522500	-	-
5812522200	-	-



Part No.	basic valve with electrical connector	Throttle
5812522100	-	-
5812522600	-	-
5812522300	-	-
5812522400	-	-
5812522000	Basic valve without coil	-
5812523500	-	with throttle
5812523200	-	with throttle
5812523100	-	with throttle
5812523600	-	with throttle
5812523300	-	with throttle
5812523400	-	with throttle
5812523000	Basic valve without coil	with throttle

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

Technical information

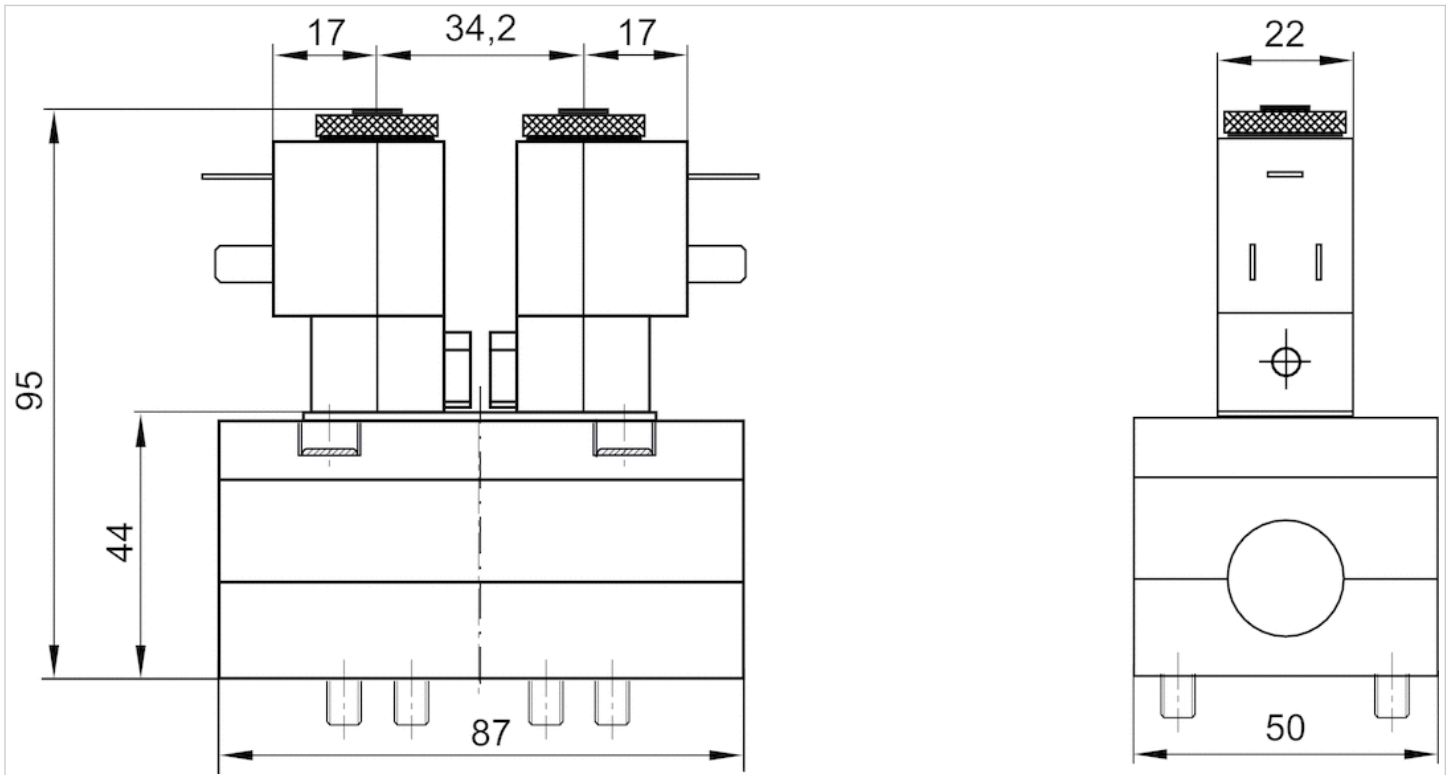
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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