

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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



Type	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.	1,5 ... 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	2700 l/min
Flow conductance C	10,8 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	12 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3,5 Nm
Weight	0,42 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5812220500			12 V	-
5812220200			-	24 V
5812220100			24 V	-
5812220600			48 V	-
5812220300			-	-
5812220400			-	230 V
5812220000			-	-
5812221500			12 V	-
5812221200			-	24 V
5812221100			24 V	-
5812221600			48 V	-
5812221300			-	-
5812221400			-	230 V
5812221000			-	-
5812222500			12 V	-
5812222200			-	24 V
5812222100			24 V	-
5812222600			48 V	-
5812222300			-	-
5812222400			-	230 V
5812222000			-	-
5812223500			12 V	-
5812223200			-	24 V
5812223100			24 V	-
5812223600			48 V	-
5812223300			-	-
5812223400			-	230 V
5812223000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812220500	-	-10% / +10%	-	-
5812220200	-	-	-10% / +10%	-
5812220100	-	-10% / +10%	-	-
5812220600	-	-10% / +10%	-	-
5812220300	110 V	-	-	-10% / +10%
5812220400	-	-	-10% / +10%	-
5812220000	-	-	-	-
5812221500	-	-10% / +10%	-	-
5812221200	-	-	-10% / +10%	-
5812221100	-	-10% / +10%	-	-
5812221600	-	-10% / +10%	-	-
5812221300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5812221400	-	-	-10% / +10%	-
5812221000	-	-	-	-
5812222500	-	-10% / +10%	-	-
5812222200	-	-	-10% / +10%	-
5812222100	-	-10% / +10%	-	-
5812222600	-	-10% / +10%	-	-
5812222300	110 V	-	-	-10% / +10%
5812222400	-	-	-10% / +10%	-
5812222000	-	-	-	-
5812223500	-	-10% / +10%	-	-
5812223200	-	-	-10% / +10%	-
5812223100	-	-10% / +10%	-	-
5812223600	-	-10% / +10%	-	-
5812223300	110 V	-	-	-10% / +10%
5812223400	-	-	-10% / +10%	-
5812223000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5812220500	5 W	-	-	-
5812220200	-	8 VA	-	10 VA
5812220100	5 W	-	-	-
5812220600	5 W	-	-	-
5812220300	-	-	8 VA	-
5812220400	-	8 VA	-	10 VA
5812220000	-	-	-	-
5812221500	5 W	-	-	-
5812221200	-	8 VA	-	10 VA
5812221100	5 W	-	-	-
5812221600	5 W	-	-	-
5812221300	-	-	8 VA	-
5812221400	-	8 VA	-	10 VA
5812221000	-	-	-	-
5812222500	5 W	-	-	-
5812222200	-	8 VA	-	10 VA
5812222100	5 W	-	-	-
5812222600	5 W	-	-	-
5812222300	-	-	8 VA	-
5812222400	-	8 VA	-	10 VA
5812222000	-	-	-	-
5812223500	5 W	-	-	-
5812223200	-	8 VA	-	10 VA
5812223100	5 W	-	-	-
5812223600	5 W	-	-	-
5812223300	-	-	8 VA	-
5812223400	-	8 VA	-	10 VA
5812223000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5812220500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812220000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812221000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5812222500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812222400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812222000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5812223400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5812223000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5812220500	-	-
5812220200	-	-
5812220100	-	-
5812220600	-	-
5812220300	-	-
5812220400	-	-
5812220000	Basic valve without coil	-
5812221500	-	with throttle
5812221200	-	with throttle
5812221100	-	with throttle
5812221600	-	with throttle
5812221300	-	with throttle
5812221400	-	with throttle
5812221000	Basic valve without coil	with throttle
5812222500	-	-
5812222200	-	-

Part No.	basic valve with electrical connector	Throttle
5812222100	-	-
5812222600	-	-
5812222300	-	-
5812222400	-	-
5812222000	Basic valve without coil	-
5812223500	-	with throttle
5812223200	-	with throttle
5812223100	-	with throttle
5812223600	-	with throttle
5812223300	-	with throttle
5812223400	-	with throttle
5812223000	Basic valve without coil	with throttle

Nominal flow Q_n 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.

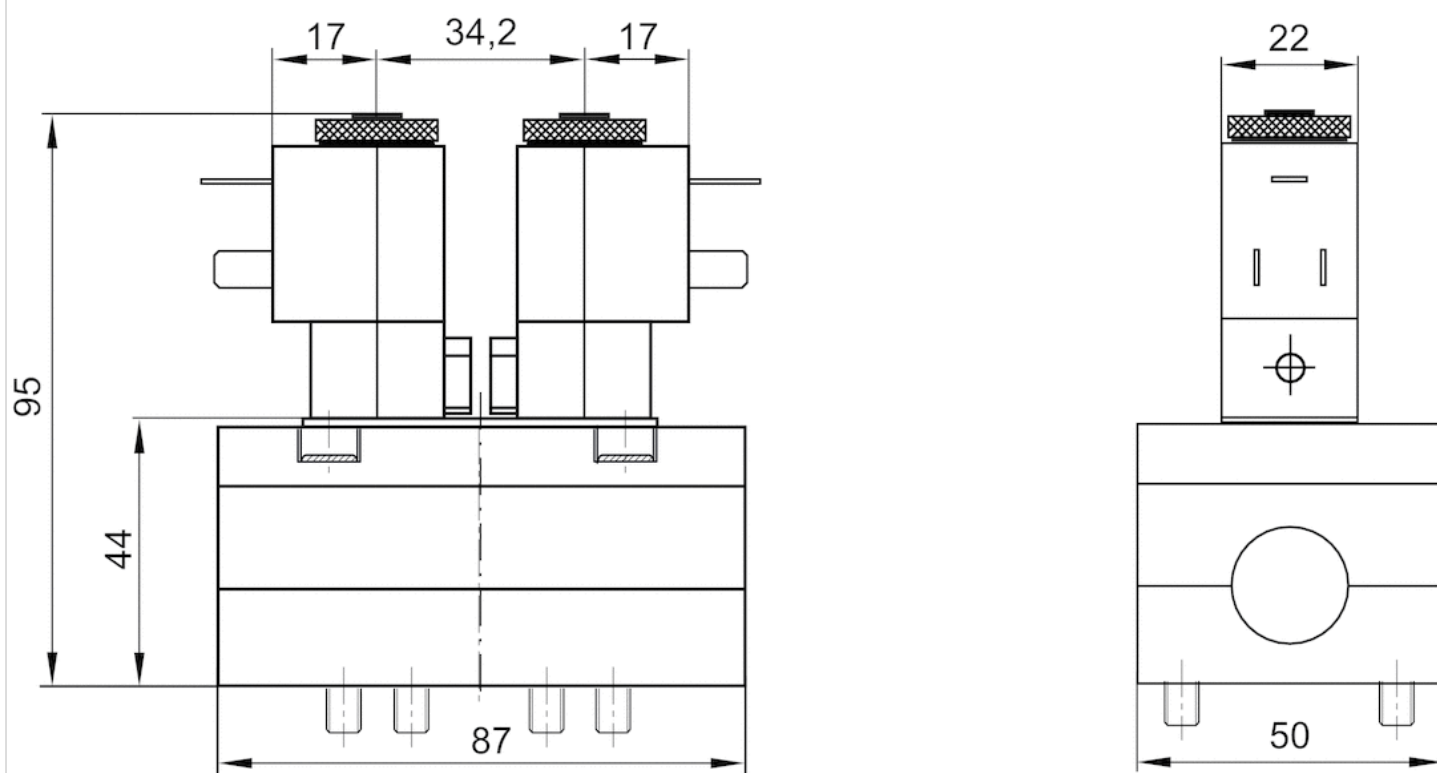
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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