

























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


































- ISO 5599-1
- ISO 2
- Qn = 2700 l/min
- plate connection
- Pilot valve width 22 mm
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent
- single solenoid



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 Qn	2700 l/min
Protection class, with connection	IP65
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	36 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	4 Nm
Weight	0,34 kg

Technical data

Part No.		MO	Operating voltage DC	Operating voltage AC 50 Hz	Operating voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5812110500			12 V	-	-	-10% / +10%	-
5812110200			-	24 V	-	-	-10% / +10%
5812110100			24 V	-	-	-10% / +10%	-
5812110600			48 V	-	-	-10% / +10%	-
5812110300			-	-	110 V	-	-
5812110400			-	230 V	-	-	-10% / +10%
5812110000			-	-	-	-	-
5812111500			12 V	-	-	-10% / +10%	-
5812111200			-	24 V	-	-	-10% / +10%
5812111100			24 V	-	-	-10% / +10%	-
5812111600			48 V	-	-	-10% / +10%	-
5812111300			-	-	110 V	-	-

Part No.		MO	Operating voltage DC	Operating voltage AC 50 Hz	Operating voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz
5812111400			-	230 V	-	-	-10% / +10%
5812111000			-	-	-	-	-
5812112500			12 V	-	-	-10% / +10%	-
5812112200			-	24 V	-	-	-10% / +10%
5812112100			24 V	-	-	-10% / +10%	-
5812112600			48 V	-	-	-10% / +10%	-
5812112300			-	-	110 V	-	-
5812112400			-	230 V	-	-	-10% / +10%
5812112000			-	-	-	-	-
5812113500			12 V	-	-	-10% / +10%	-
5812113200			-	24 V	-	-	-10% / +10%
5812113100			24 V	-	-	-10% / +10%	-
5812113600			48 V	-	-	-10% / +10%	-
5812113300			-	-	110 V	-	-
5812113400			-	230 V	-	-	-10% / +10%
5812113000			-	-	-	-	-

Part No.	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5812110500	-	5 W	-	-	-	-	internal
5812110200	-	-	8 VA	-	10 VA	-	internal
5812110100	-	5 W	-	-	-	-	internal
5812110600	-	5 W	-	-	-	-	internal
5812110300	-10% / +10%	-	-	8 VA	-	10 VA	internal
5812110400	-	-	8 VA	-	10 VA	-	internal
5812110000	-	-	-	-	-	-	internal
5812111500	-	5 W	-	-	-	-	internal
5812111200	-	-	8 VA	-	10 VA	-	internal
5812111100	-	5 W	-	-	-	-	internal
5812111600	-	5 W	-	-	-	-	internal
5812111300	-10% / +10%	-	-	8 VA	-	10 VA	internal
5812111400	-	-	8 VA	-	10 VA	-	internal
5812111000	-	-	-	-	-	-	internal
5812112500	-	5 W	-	-	-	-	external
5812112200	-	-	8 VA	-	10 VA	-	external
5812112100	-	5 W	-	-	-	-	external
5812112600	-	5 W	-	-	-	-	external
5812112300	-10% / +10%	-	-	8 VA	-	10 VA	external
5812112400	-	-	8 VA	-	10 VA	-	external
5812112000	-	-	-	-	-	-	external
5812113500	-	5 W	-	-	-	-	external
5812113200	-	-	8 VA	-	10 VA	-	external
5812113100	-	5 W	-	-	-	-	external
5812113600	-	5 W	-	-	-	-	external
5812113300	-10% / +10%	-	-	8 VA	-	10 VA	external
5812113400	-	-	8 VA	-	10 VA	-	external
5812113000	-	-	-	-	-	-	external

Part No.	Flow conductance C-value	Working pressure min./max.	Electrical connection Pilot valve	basic valve with electrical connector
5812110500	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110200	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110100	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110600	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110300	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110400	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812110000	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	Basic valve without coil
5812111500	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111200	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111100	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111600	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111300	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111400	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	-
5812111000	10,8 l/(s*bar)	3 ... 10 bar	Plug, Form B, industry	Basic valve without coil
5812112500	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112200	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112100	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112600	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112300	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112400	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812112000	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	Basic valve without coil
5812113500	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113200	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113100	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113600	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113300	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113400	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	-
5812113000	10,8 l/(s*bar)	-0,95 ... 10 bar	Plug, Form B, industry	Basic valve without coil

Part No.	Throttle
5812110500	-
5812110200	-
5812110100	-
5812110600	-
5812110300	-
5812110400	-
5812110000	-
5812111500	with throttle
5812111200	with throttle
5812111100	with throttle
5812111600	with throttle
5812111300	with throttle
5812111400	with throttle
5812111000	with throttle
5812112500	-
5812112200	-

Part No.	Throttle
5812112100	-
5812112600	-
5812112300	-
5812112400	-
5812112000	-
5812113500	with throttle
5812113200	with throttle
5812113100	with throttle
5812113600	with throttle
5812113300	with throttle
5812113400	with throttle
5812113000	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

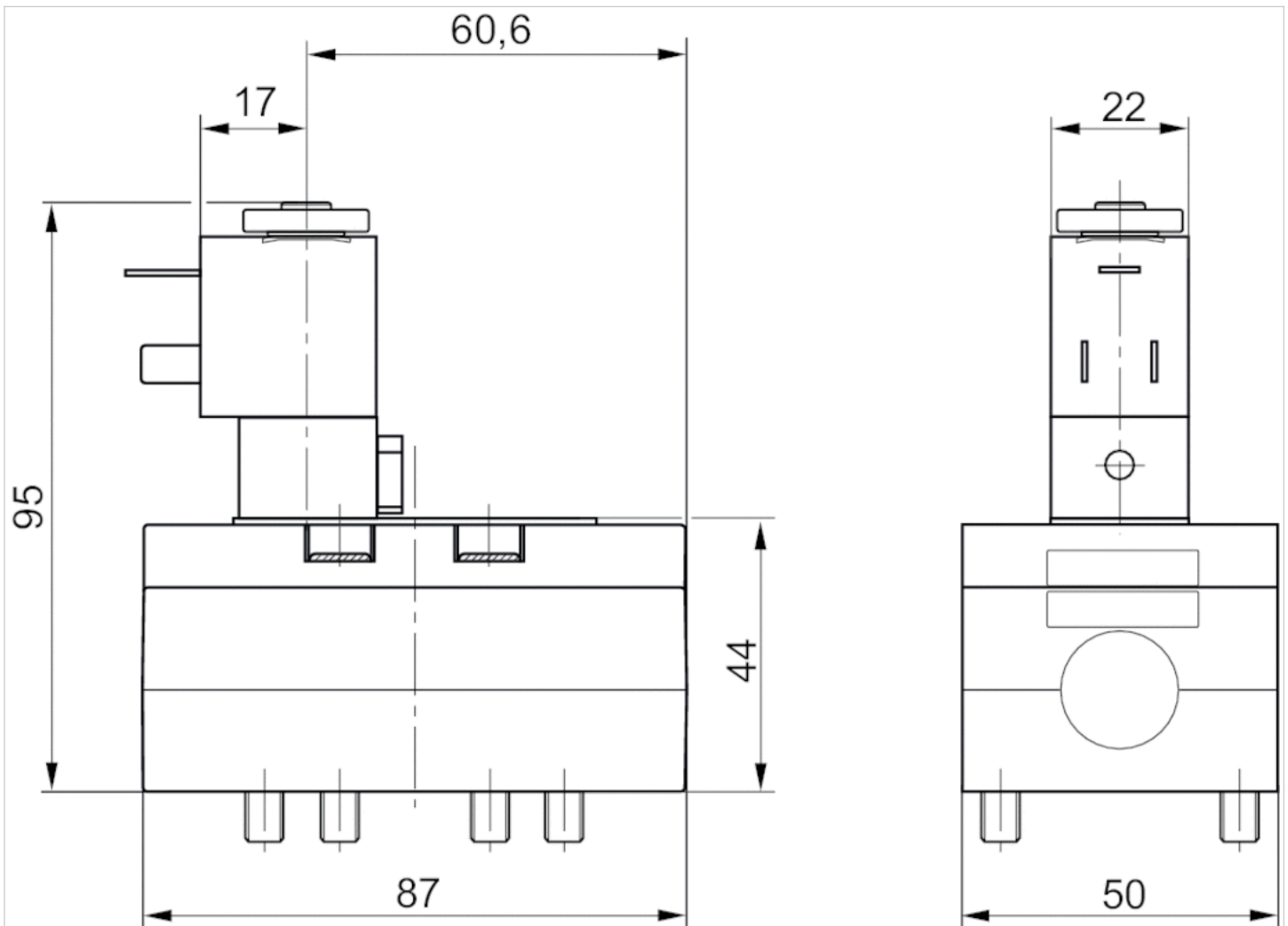
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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