

























































5/2-directional valve, Series 581, size 1

- ISO 5599-1
- ISO 1
- 5/2
- with air spring return
- $Q_n = 1400$ 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.	1,3 ... 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	1400 l/min
Flow conductance C	5,2 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	25 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,26 kg

Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5811610500			12 V	-	-
5811610200			-	24 V	-
5811610100			24 V	-	-
5811610600			48 V	-	-
5811610300			-	-	110 V
5811610400			-	230 V	-
5811610000			-	-	-
5811611500			12 V	-	-
5811611200			-	24 V	-
5811611100			24 V	-	-
5811611600			48 V	-	-
5811611300			-	-	110 V
5811611400			-	230 V	-
5811611000			-	-	-
5811612500			12 V	-	-
5811612200			-	24 V	-
5811612100			24 V	-	-
5811612600			48 V	-	-
5811612300			-	-	110 V
5811612400			-	230 V	-
5811612000			-	-	-
5811613500			12 V	-	-
5811613200			-	24 V	-
5811613100			24 V	-	-
5811613600			48 V	-	-
5811613300			-	-	110 V
5811613400			-	230 V	-
5811613000			-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5811610500	-10% / +10%	-	-	5 W
5811610200	-	-10% / +10%	-	-
5811610100	-10% / +10%	-	-	5 W
5811610600	-10% / +10%	-	-	5 W
5811610300	-	-	-10% / +10%	-
5811610400	-	-10% / +10%	-	-
5811610000	-	-	-	-
5811611500	-10% / +10%	-	-	5 W
5811611200	-	-10% / +10%	-	-
5811611100	-10% / +10%	-	-	5 W
5811611600	-10% / +10%	-	-	5 W
5811611300	-	-	-10% / +10%	-
5811611400	-	-10% / +10%	-	-
5811611000	-	-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5811612500	-10% / +10%	-	-	5 W
5811612200	-	-10% / +10%	-	-
5811612100	-10% / +10%	-	-	5 W
5811612600	-10% / +10%	-	-	5 W
5811612300	-	-	-10% / +10%	-
5811612400	-	-10% / +10%	-	-
5811612000	-	-	-	-
5811613500	-10% / +10%	-	-	5 W
5811613200	-	-10% / +10%	-	-
5811613100	-10% / +10%	-	-	5 W
5811613600	-10% / +10%	-	-	5 W
5811613300	-	-	-10% / +10%	-
5811613400	-	-10% / +10%	-	-
5811613000	-	-	-	-

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
5811610500	-	-	-	-	internal
5811610200	8 VA	-	10 VA	-	internal
5811610100	-	-	-	-	internal
5811610600	-	-	-	-	internal
5811610300	-	8 VA	-	10 VA	internal
5811610400	8 VA	-	10 VA	-	internal
5811610000	-	-	-	-	internal
5811611500	-	-	-	-	internal
5811611200	8 VA	-	10 VA	-	internal
5811611100	-	-	-	-	internal
5811611600	-	-	-	-	internal
5811611300	-	8 VA	-	10 VA	internal
5811611400	8 VA	-	10 VA	-	internal
5811611000	-	-	-	-	internal
5811612500	-	-	-	-	external
5811612200	8 VA	-	10 VA	-	external
5811612100	-	-	-	-	external
5811612600	-	-	-	-	external
5811612300	-	8 VA	-	10 VA	external
5811612400	8 VA	-	10 VA	-	external
5811612000	-	-	-	-	external
5811613500	-	-	-	-	external
5811613200	8 VA	-	10 VA	-	external
5811613100	-	-	-	-	external
5811613600	-	-	-	-	external
5811613300	-	8 VA	-	10 VA	external
5811613400	8 VA	-	10 VA	-	external
5811613000	-	-	-	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5811610500	1,3 ... 10 bar	Plug Form B, industry
5811610200	1,3 ... 10 bar	Plug Form B, industry
5811610100	1,3 ... 10 bar	Plug Form B, industry
5811610600	1,3 ... 10 bar	Plug Form B, industry
5811610300	1,3 ... 10 bar	Plug Form B, industry
5811610400	1,3 ... 10 bar	Plug Form B, industry
5811610000	1,3 ... 10 bar	Plug Form B, industry
5811611500	1,3 ... 10 bar	Plug Form B, industry
5811611200	1,3 ... 10 bar	Plug Form B, industry
5811611100	1,3 ... 10 bar	Plug Form B, industry
5811611600	1,3 ... 10 bar	Plug Form B, industry
5811611300	1,3 ... 10 bar	Plug Form B, industry
5811611400	1,3 ... 10 bar	Plug Form B, industry
5811611000	1,3 ... 10 bar	Plug Form B, industry
5811612500	-0,95 ... 10 bar	Plug Form B, industry
5811612200	-0,95 ... 10 bar	Plug Form B, industry
5811612100	-0,95 ... 10 bar	Plug Form B, industry
5811612600	-0,95 ... 10 bar	Plug Form B, industry
5811612300	-0,95 ... 10 bar	Plug Form B, industry
5811612400	-0,95 ... 10 bar	Plug Form B, industry
5811612000	-0,95 ... 10 bar	Plug Form B, industry
5811613500	-0,95 ... 10 bar	Plug Form B, industry
5811613200	-0,95 ... 10 bar	Plug Form B, industry
5811613100	-0,95 ... 10 bar	Plug Form B, industry
5811613600	-0,95 ... 10 bar	Plug Form B, industry
5811613300	-0,95 ... 10 bar	Plug Form B, industry
5811613400	-0,95 ... 10 bar	Plug Form B, industry
5811613000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5811610500	-	-
5811610200	-	-
5811610100	-	-
5811610600	-	-
5811610300	-	-
5811610400	-	-
5811610000	Basic valve without coil	-
5811611500	-	with throttle
5811611200	-	with throttle
5811611100	-	with throttle
5811611600	-	with throttle
5811611300	-	with throttle
5811611400	-	with throttle
5811611000	Basic valve without coil	with throttle
5811612500	-	-
5811612200	-	-



Part No.	basic valve with electrical connector	Throttle
5811612100	-	-
5811612600	-	-
5811612300	-	-
5811612400	-	-
5811612000	Basic valve without coil	-
5811613500	-	with throttle
5811613200	-	with throttle
5811613100	-	with throttle
5811613600	-	with throttle
5811613300	-	with throttle
5811613400	-	with throttle
5811613000	Basic valve without coil	with throttle

Differential piston, signal 14 has priority, Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

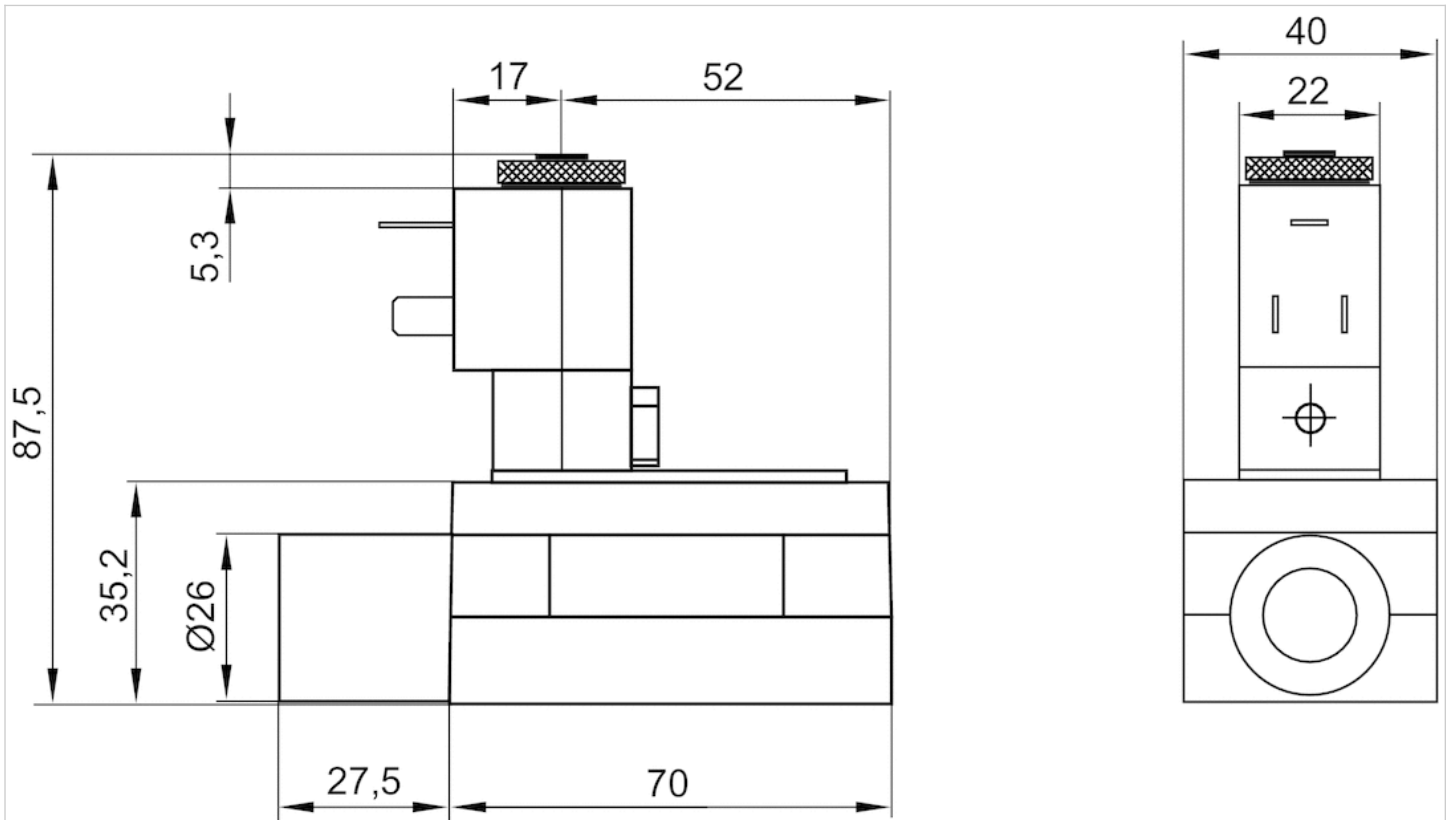
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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