

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

- ISO 5599-1
- ISO 1
- 5/2
- double solenoid
- $Q_n = 1400 \text{ l/min}$
- 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 1
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	1400 l/min
Flow conductance C	5,2 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	11 ms
Typ. switch-off time	11 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,3 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5811220500			12 V	-
5811220200			-	24 V
5811220100			24 V	-
5811220600			48 V	-
5811220300			-	-
5811220400			-	230 V
5811220000			-	-
5811221500			12 V	-
5811221200			-	24 V
5811221100			24 V	-
5811221600			48 V	-
5811221300			-	-
5811221400			-	230 V
5811221000			-	-
5811222500			12 V	-
5811222200			-	24 V
5811222100			24 V	-
5811222600			48 V	-
5811222300			-	-
5811222400			-	230 V
5811222000			-	-
5811223500			12 V	-
5811223200			-	24 V
5811223100			24 V	-
5811223600			48 V	-
5811223300			-	-
5811223400			-	230 V
5811223000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5811220500	-	-10% / +10%	-	-
5811220200	-	-	-10% / +10%	-
5811220100	-	-10% / +10%	-	-
5811220600	-	-10% / +10%	-	-
5811220300	110 V	-	-	-10% / +10%
5811220400	-	-	-10% / +10%	-
5811220000	-	-	-	-
5811221500	-	-10% / +10%	-	-
5811221200	-	-	-10% / +10%	-
5811221100	-	-10% / +10%	-	-
5811221600	-	-10% / +10%	-	-
5811221300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5811221400	-	-	-10% / +10%	-
5811221000	-	-	-	-
5811222500	-	-10% / +10%	-	-
5811222200	-	-	-10% / +10%	-
5811222100	-	-10% / +10%	-	-
5811222600	-	-10% / +10%	-	-
5811222300	110 V	-	-	-10% / +10%
5811222400	-	-	-10% / +10%	-
5811222000	-	-	-	-
5811223500	-	-10% / +10%	-	-
5811223200	-	-	-10% / +10%	-
5811223100	-	-10% / +10%	-	-
5811223600	-	-10% / +10%	-	-
5811223300	110 V	-	-	-10% / +10%
5811223400	-	-	-10% / +10%	-
5811223000	-	-	-	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5811220500	5 W	-	-	-
5811220200	-	8 VA	-	10 VA
5811220100	5 W	-	-	-
5811220600	5 W	-	-	-
5811220300	-	-	8 VA	-
5811220400	-	8 VA	-	10 VA
5811220000	-	-	-	-
5811221500	5 W	-	-	-
5811221200	-	8 VA	-	10 VA
5811221100	5 W	-	-	-
5811221600	5 W	-	-	-
5811221300	-	-	8 VA	-
5811221400	-	8 VA	-	10 VA
5811221000	-	-	-	-
5811222500	5 W	-	-	-
5811222200	-	8 VA	-	10 VA
5811222100	5 W	-	-	-
5811222600	5 W	-	-	-
5811222300	-	-	8 VA	-
5811222400	-	8 VA	-	10 VA
5811222000	-	-	-	-
5811223500	5 W	-	-	-
5811223200	-	8 VA	-	10 VA
5811223100	5 W	-	-	-
5811223600	5 W	-	-	-
5811223300	-	-	8 VA	-
5811223400	-	8 VA	-	10 VA

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5811223000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5811220500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811220000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221500	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221200	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221100	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221600	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221300	10 VA	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221400	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811221000	-	Internal	1,5 ... 10 bar	Plug Form B, industry
5811222500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811222200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811222100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811222600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811222300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5811222400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811222000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5811223400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5811223000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5811220500	-	-
5811220200	-	-
5811220100	-	-
5811220600	-	-
5811220300	-	-
5811220400	-	-
5811220000	Basic valve without coil	-
5811221500	-	with throttle
5811221200	-	with throttle
5811221100	-	with throttle
5811221600	-	with throttle
5811221300	-	with throttle

Part No.	basic valve with electrical connector	Throttle
5811221400	-	with throttle
5811221000	Basic valve without coil	with throttle
5811222500	-	-
5811222200	-	-
5811222100	-	-
5811222600	-	-
5811222300	-	-
5811222400	-	-
5811222000	Basic valve without coil	-
5811223500	-	with throttle
5811223200	-	with throttle
5811223100	-	with throttle
5811223600	-	with throttle
5811223300	-	with throttle
5811223400	-	with throttle
5811223000	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.

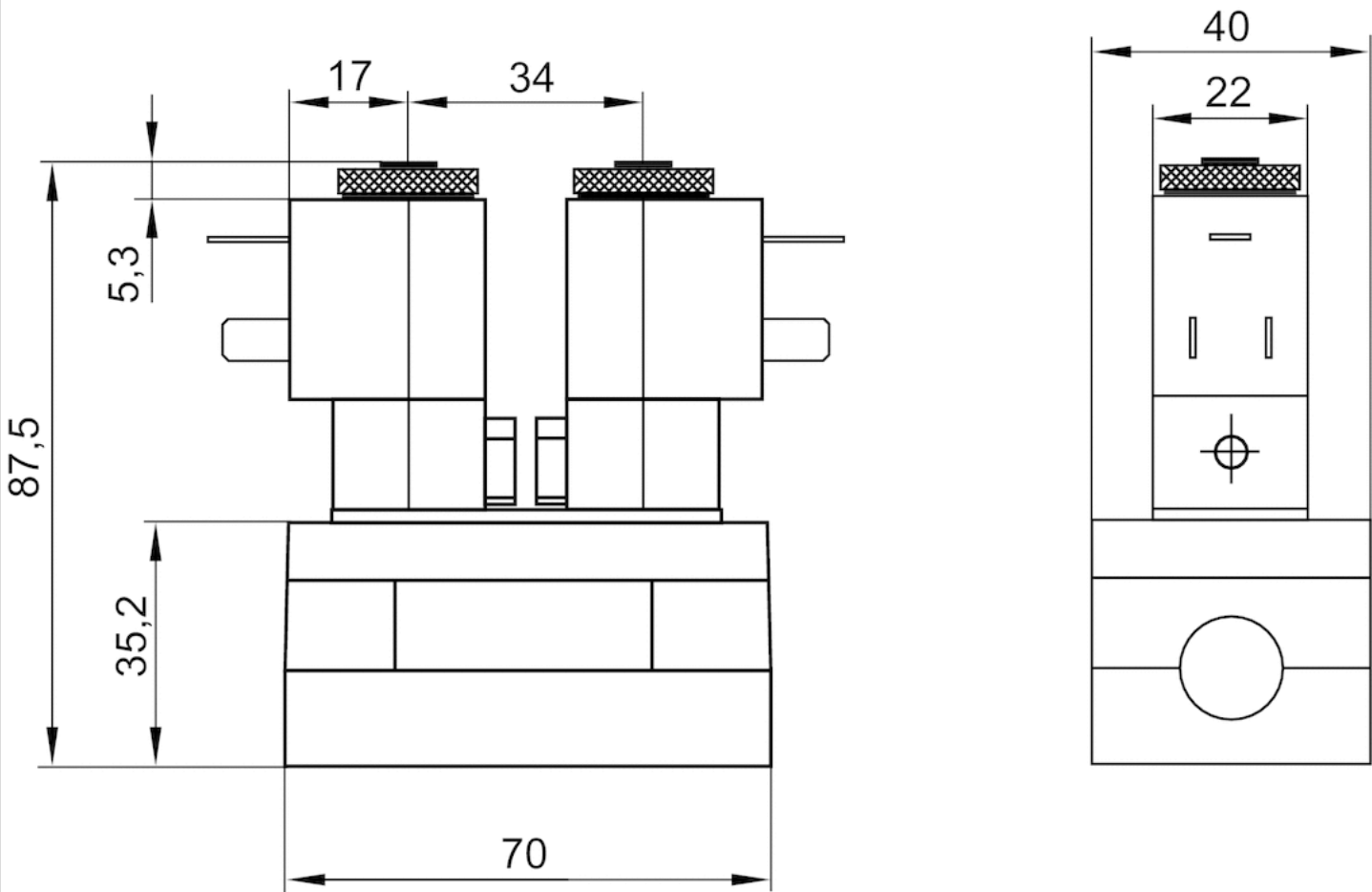
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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