

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

- ISO 5599-1
- ISO 3
- 5/2
- With spring return
- single solenoid
- $Q_n = 4800 \text{ l/min}$
- 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 3
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	4800 l/min
Flow conductance C	18,9 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	19 ms
Typ. switch-off time	71 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	0,93 kg

Technical data

Part No.		MO	Operational voltage DC	Operational voltage AC 50 Hz
5813110500			12 V	-
5813110200			-	24 V
5813110100			24 V	-
5813110600			48 V	-
5813110300			-	-
5813110400			-	230 V
5813110000			-	-
5813111500			12 V	-
5813111200			-	24 V
5813111100			24 V	-
5813111600			48 V	-
5813111300			-	-
5813111400			-	230 V
5813111000			-	-
5813112500			12 V	-
5813112200			-	24 V
5813112100			24 V	-
5813112600			48 V	-
5813112300			-	-
5813112400			-	230 V
5813112000			-	-
5813113500			12 V	-
5813113200			-	24 V
5813113100			24 V	-
5813113600			48 V	-
5813113300			-	-
5813113400			-	230 V
5813113000			-	-

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5813110500	-	-10% / +10%	-	-
5813110200	-	-	-10% / +10%	-
5813110100	-	-10% / +10%	-	-
5813110600	-	-10% / +10%	-	-
5813110300	110 V	-	-	-10% / +10%
5813110400	-	-	-10% / +10%	-
5813110000	-	-	-	-
5813111500	-	-10% / +10%	-	-
5813111200	-	-	-10% / +10%	-
5813111100	-	-10% / +10%	-	-
5813111600	-	-10% / +10%	-	-
5813111300	110 V	-	-	-10% / +10%

Part No.	Operational voltage AC 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz
5813111400	-	-	-10% / +10%	-
5813111000	-	-	-10% / +10%	-
5813112500	-	-10% / +10%	-	-
5813112200	-	-	-10% / +10%	-
5813112100	-	-10% / +10%	-	-
5813112600	-	-10% / +10%	-	-
5813112300	110 V	-	-	-10% / +10%
5813112400	-	-	-10% / +10%	-
5813112000	-	-	-10% / +10%	-
5813113500	-	-10% / +10%	-	-
5813113200	-	-	-10% / +10%	-
5813113100	-	-10% / +10%	-	-
5813113600	-	-10% / +10%	-	-
5813113300	110 V	-	-	-10% / +10%
5813113400	-	-	-10% / +10%	-
5813113000	-	-	-10% / +10%	-

Part No.	Power consumption DC	Holding power AC 50 Hz	Holding power AC 60 Hz	Switch-on power AC 50 Hz
5813110500	5 W	-	-	-
5813110200	-	8 VA	-	10 VA
5813110100	5 W	-	-	-
5813110600	5 W	-	-	-
5813110300	-	-	8 VA	-
5813110400	-	8 VA	-	10 VA
5813110000	-	-	-	-
5813111500	5 W	-	-	-
5813111200	-	8 VA	-	10 VA
5813111100	5 W	-	-	-
5813111600	5 W	-	-	-
5813111300	-	-	8 VA	-
5813111400	-	8 VA	-	10 VA
5813111000	-	-	-	-
5813112500	5 W	-	-	-
5813112200	-	8 VA	-	10 VA
5813112100	5 W	-	-	-
5813112600	5 W	-	-	-
5813112300	-	-	8 VA	-
5813112400	-	8 VA	-	10 VA
5813112000	-	-	-	-
5813113500	5 W	-	-	-
5813113200	-	8 VA	-	10 VA
5813113100	5 W	-	-	-
5813113600	5 W	-	-	-
5813113300	-	-	8 VA	-
5813113400	-	8 VA	-	10 VA
5813113000	-	-	-	-

Part No.	Switch-on power AC 60 Hz	Pilot	Working pressure min./max.	Electrical connection Pilot valve
5813110500	-	Internal	3 ... 10 bar	Plug Form B, industry
5813110200	-	Internal	3 ... 10 bar	Plug Form B, industry
5813110100	-	Internal	3 ... 10 bar	Plug Form B, industry
5813110600	-	Internal	3 ... 10 bar	Plug Form B, industry
5813110300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5813110400	-	Internal	3 ... 10 bar	Plug Form B, industry
5813110000	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111500	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111200	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111100	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111600	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111300	10 VA	Internal	3 ... 10 bar	Plug Form B, industry
5813111400	-	Internal	3 ... 10 bar	Plug Form B, industry
5813111000	-	Internal	3 ... 10 bar	Plug Form B, industry
5813112500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813112200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813112100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813112600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813112300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5813112400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813112000	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113500	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113200	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113100	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113600	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113300	10 VA	External	-0,95 ... 10 bar	Plug Form B, industry
5813113400	-	External	-0,95 ... 10 bar	Plug Form B, industry
5813113000	-	External	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5813110500	-	-
5813110200	-	-
5813110100	-	-
5813110600	-	-
5813110300	-	-
5813110400	-	-
5813110000	Basic valve without coil	-
5813111500	-	with throttle
5813111200	-	with throttle
5813111100	-	with throttle
5813111600	-	with throttle
5813111300	-	with throttle
5813111400	-	with throttle
5813111000	Basic valve without coil	with throttle
5813112500	-	-
5813112200	-	-

Part No.	basic valve with electrical connector	Throttle
5813112100	-	-
5813112600	-	-
5813112300	-	-
5813112400	-	-
5813112000	Basic valve without coil	-
5813113500	-	with throttle
5813113200	-	with throttle
5813113100	-	with throttle
5813113600	-	with throttle
5813113300	-	with throttle
5813113400	-	with throttle
5813113000	Basic valve without coil	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Qn 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.

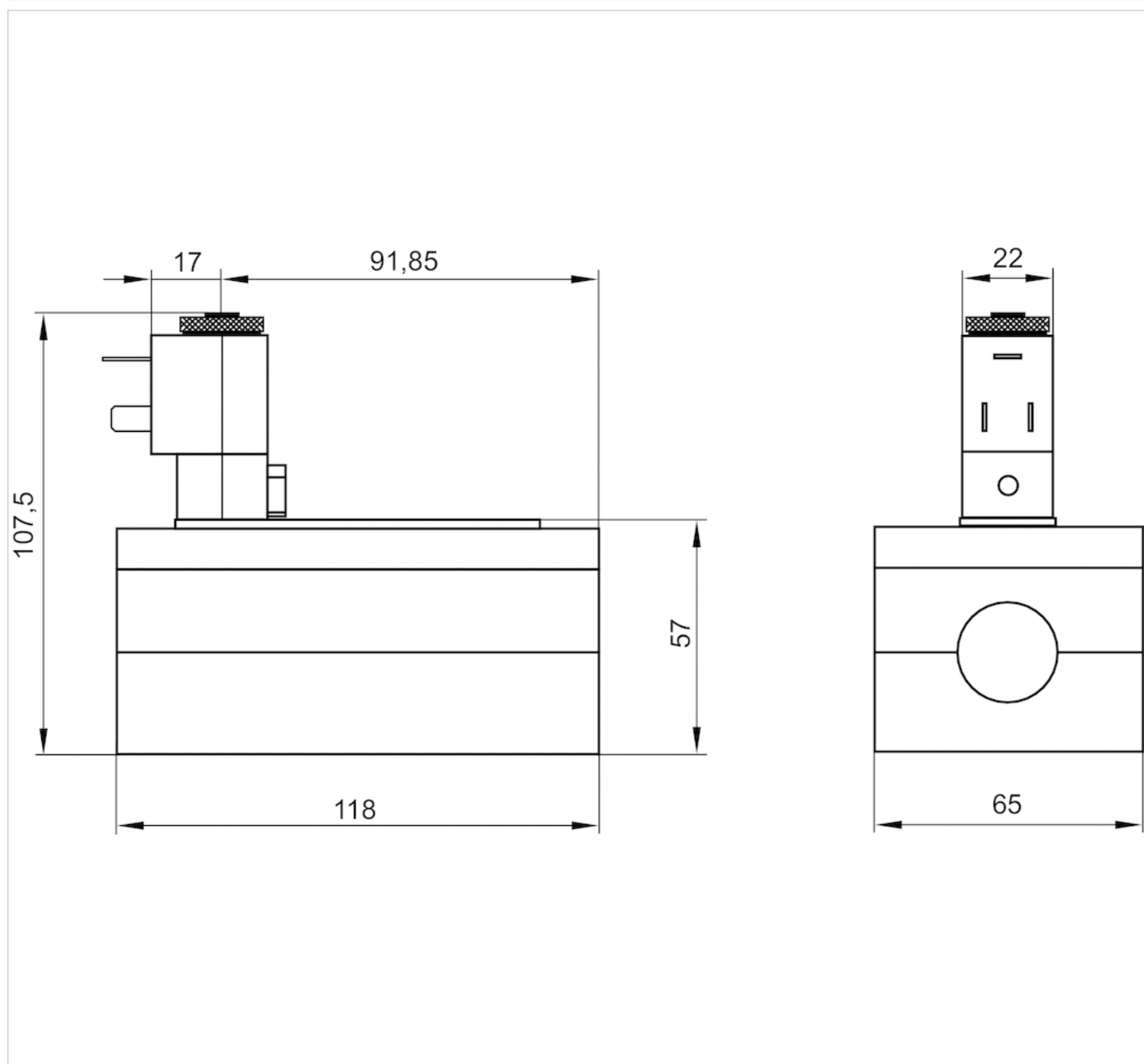
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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