

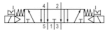
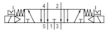
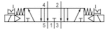
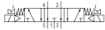
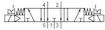
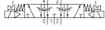
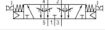
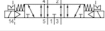
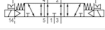
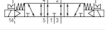
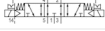
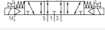
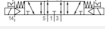
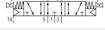
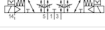
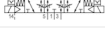
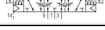
5/3-directional valve, Series 581, size 3

- ISO 5599-1
- ISO 3
- 5/3
- exhausted center
- exhausted center
- $Q_n = 4100 \text{ l/min}$
- 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	4100 l/min
Flow conductance C	14,1 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	23 ms
Typ. switch-off time	64 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,01 kg

Technical data

Part No.		MO		Operational voltage DC
5813520500			exhausted center	12 V
5813520200			exhausted center	-
5813520100			exhausted center	24 V
5813520600			exhausted center	48 V
5813520300			exhausted center	-
5813520400			exhausted center	-
5813520000			exhausted center	-
5813521500			exhausted center	12 V
5813521200			exhausted center	-
5813521100			exhausted center	24 V
5813521600			exhausted center	48 V
5813521300			exhausted center	-
5813521400			exhausted center	-
5813521000			exhausted center	-
5813522500			exhausted center	12 V
5813522200			exhausted center	-
5813522100			exhausted center	24 V
5813522600			exhausted center	48 V
5813522300			exhausted center	-
5813522400			exhausted center	-
5813522000			exhausted center	-
5813523500			exhausted center	12 V
5813523200			exhausted center	-
5813523100			exhausted center	24 V
5813523600			exhausted center	48 V
5813523300			exhausted center	-
5813523400			exhausted center	-
5813523000			exhausted center	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5813520500	-	-	-10% / +10%
5813520200	24 V	-	-
5813520100	-	-	-10% / +10%
5813520600	-	-	-10% / +10%
5813520300	-	110 V	-
5813520400	230 V	-	-
5813520000	-	-	-
5813521500	-	-	-10% / +10%
5813521200	24 V	-	-
5813521100	-	-	-10% / +10%
5813521600	-	-	-10% / +10%
5813521300	-	110 V	-

Part No.	Operational voltage AC 50 Hz	Operational voltage AC 60 Hz	Voltage tolerance DC
5813521400	230 V	-	-
5813521000	-	-	-
5813522500	-	-	-10% / +10%
5813522200	24 V	-	-
5813522100	-	-	-10% / +10%
5813522600	-	-	-10% / +10%
5813522300	-	110 V	-
5813522400	230 V	-	-
5813522000	-	-	-
5813523500	-	-	-10% / +10%
5813523200	24 V	-	-
5813523100	-	-	-10% / +10%
5813523600	-	-	-10% / +10%
5813523300	-	110 V	-
5813523400	230 V	-	-
5813523000	-	-	-

Part No.	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC	Holding power AC 50 Hz
5813520500	-	-	5 W	-
5813520200	-10% / +10%	-	-	8 VA
5813520100	-	-	5 W	-
5813520600	-	-	5 W	-
5813520300	-	-10% / +10%	-	-
5813520400	-10% / +10%	-	-	8 VA
5813520000	-	-	-	-
5813521500	-	-	5 W	-
5813521200	-10% / +10%	-	-	8 VA
5813521100	-	-	5 W	-
5813521600	-	-	5 W	-
5813521300	-	-10% / +10%	-	-
5813521400	-10% / +10%	-	-	8 VA
5813521000	-	-	-	-
5813522500	-	-	5 W	-
5813522200	-10% / +10%	-	-	8 VA
5813522100	-	-	5 W	-
5813522600	-	-	5 W	-
5813522300	-	-10% / +10%	-	-
5813522400	-10% / +10%	-	-	8 VA
5813522000	-	-	-	-
5813523500	-	-	5 W	-
5813523200	-10% / +10%	-	-	8 VA
5813523100	-	-	5 W	-
5813523600	-	-	5 W	-
5813523300	-	-10% / +10%	-	-
5813523400	-10% / +10%	-	-	8 VA
5813523000	-	-	-	-

Part No.	Holding power AC 60 Hz	Switch-on power AC 50 Hz	Switch-on power AC 60 Hz	Pilot
5813520500	-	-	-	Internal
5813520200	-	10 VA	-	Internal
5813520100	-	-	-	Internal
5813520600	-	-	-	Internal
5813520300	8 VA	-	10 VA	Internal
5813520400	-	10 VA	-	Internal
5813520000	-	-	-	Internal
5813521500	-	-	-	Internal
5813521200	-	10 VA	-	Internal
5813521100	-	-	-	Internal
5813521600	-	-	-	Internal
5813521300	8 VA	-	10 VA	Internal
5813521400	-	10 VA	-	Internal
5813521000	-	-	-	Internal
5813522500	-	-	-	External
5813522200	-	10 VA	-	External
5813522100	-	-	-	External
5813522600	-	-	-	External
5813522300	8 VA	-	10 VA	External
5813522400	-	10 VA	-	External
5813522000	-	-	-	External
5813523500	-	-	-	External
5813523200	-	10 VA	-	External
5813523100	-	-	-	External
5813523600	-	-	-	External
5813523300	8 VA	-	10 VA	External
5813523400	-	10 VA	-	External
5813523000	-	-	-	External

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5813520500	3 ... 10 bar	Plug Form B, industry
5813520200	3 ... 10 bar	Plug Form B, industry
5813520100	3 ... 10 bar	Plug Form B, industry
5813520600	3 ... 10 bar	Plug Form B, industry
5813520300	3 ... 10 bar	Plug Form B, industry
5813520400	3 ... 10 bar	Plug Form B, industry
5813520000	3 ... 10 bar	Plug Form B, industry
5813521500	3 ... 10 bar	Plug Form B, industry
5813521200	3 ... 10 bar	Plug Form B, industry
5813521100	3 ... 10 bar	Plug Form B, industry
5813521600	3 ... 10 bar	Plug Form B, industry
5813521300	3 ... 10 bar	Plug Form B, industry
5813521400	3 ... 10 bar	Plug Form B, industry
5813521000	3 ... 10 bar	Plug Form B, industry
5813522500	-0,95 ... 10 bar	Plug Form B, industry
5813522200	-0,95 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5813522100	-0,95 ... 10 bar	Plug Form B, industry
5813522600	-0,95 ... 10 bar	Plug Form B, industry
5813522300	-0,95 ... 10 bar	Plug Form B, industry
5813522400	-0,95 ... 10 bar	Plug Form B, industry
5813522000	-0,95 ... 10 bar	Plug Form B, industry
5813523500	-0,95 ... 10 bar	Plug Form B, industry
5813523200	-0,95 ... 10 bar	Plug Form B, industry
5813523100	-0,95 ... 10 bar	Plug Form B, industry
5813523600	-0,95 ... 10 bar	Plug Form B, industry
5813523300	-0,95 ... 10 bar	Plug Form B, industry
5813523400	-0,95 ... 10 bar	Plug Form B, industry
5813523000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5813520500	-	-
5813520200	-	-
5813520100	-	-
5813520600	-	-
5813520300	-	-
5813520400	-	-
5813520000	Basic valve without coil	-
5813521500	-	with throttle
5813521200	-	with throttle
5813521100	-	with throttle
5813521600	-	with throttle
5813521300	-	with throttle
5813521400	-	with throttle
5813521000	Basic valve without coil	with throttle
5813522500	-	-
5813522200	-	-
5813522100	-	-
5813522600	-	-
5813522300	-	-
5813522400	-	-
5813522000	Basic valve without coil	-
5813523500	-	with throttle
5813523200	-	with throttle
5813523100	-	with throttle
5813523600	-	with throttle
5813523300	-	with throttle
5813523400	-	with throttle
5813523000	Basic valve without coil	with throttle

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

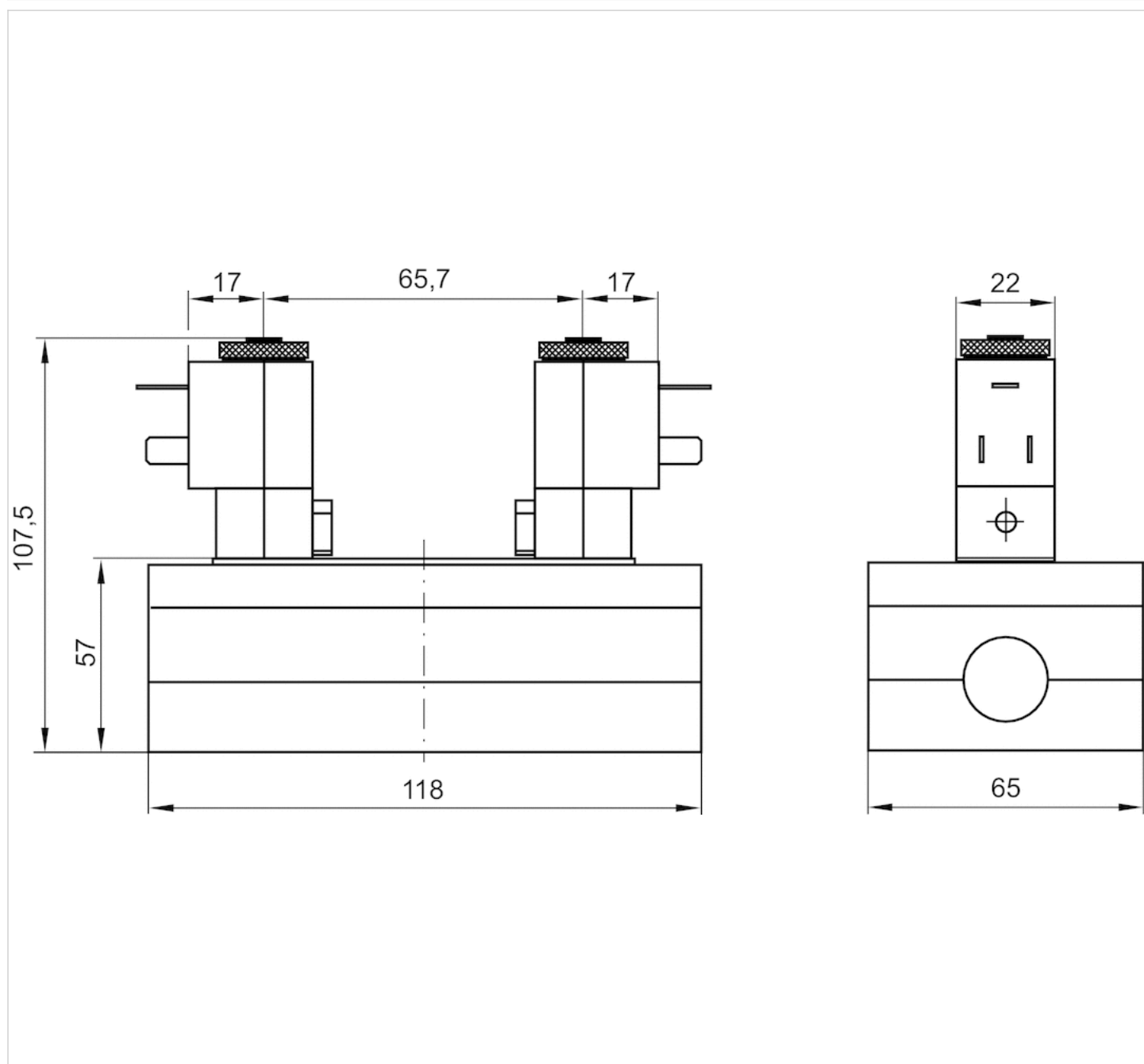
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



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