

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

- ISO 5599-1
- ISO 3
- 5/2
- with air spring return
- $Q_n = 4800$  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 3
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 <sup>3</sup>
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	21 ms
Typ. switch-off time	58 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	0,93 kg



## Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Operationalvoltage AC 60 Hz
5813610500			12 V	-	-
5813610200			-	24 V	-
5813610100			24 V	-	-
5813610600			48 V	-	-
5813610300			-	-	110 V
5813610400			-	230 V	-
5813610000			-	-	-
5813611500			12 V	-	-
5813611200			-	24 V	-
5813611100			24 V	-	-
5813611600			48 V	-	-
5813611300			-	-	110 V
5813611400			-	230 V	-
5813611000			-	-	-
5813612500			12 V	-	-
5813612200			-	24 V	-
5813612100			24 V	-	-
5813612600			48 V	-	-
5813612300			-	-	110 V
5813612400			-	230 V	-
5813612000			-	-	-
5813613500			12 V	-	-
5813613200			-	24 V	-
5813613100			24 V	-	-
5813613300			-	-	110 V
5813613400			-	230 V	-
5813613000			-	-	-

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5813610500	-10% / +10%	-	-	5 W
5813610200	-	-10% / +10%	-	-
5813610100	-10% / +10%	-	-	5 W
5813610600	-10% / +10%	-	-	5 W
5813610300	-	-	-10% / +10%	-
5813610400	-	-10% / +10%	-	-
5813610000	-	-	-	-
5813611500	-10% / +10%	-	-	5 W
5813611200	-	-10% / +10%	-	-
5813611100	-10% / +10%	-	-	5 W
5813611600	-10% / +10%	-	-	5 W
5813611300	-	-	-10% / +10%	-
5813611400	-	-10% / +10%	-	-
5813611000	-	-	-	-
5813612500	-10% / +10%	-	-	5 W

Part No.	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC
5813612200	-	-10% / +10%	-	-
5813612100	-10% / +10%	-	-	5 W
5813612600	-10% / +10%	-	-	5 W
5813612300	-	-	-10% / +10%	-
5813612400	-	-10% / +10%	-	-
5813612000	-	-	-	-
5813613500	-10% / +10%	-	-	5 W
5813613200	-	-10% / +10%	-	-
5813613100	-10% / +10%	-	-	5 W
5813613300	-	-	-10% / +10%	-
5813613400	-	-10% / +10%	-	-
5813613000	-	-	-	-

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
5813610500	-	-	-	-	internal
5813610200	8 VA	-	10 VA	-	internal
5813610100	-	-	-	-	internal
5813610600	-	-	-	-	internal
5813610300	-	8 VA	-	10 VA	internal
5813610400	8 VA	-	10 VA	-	internal
5813610000	-	-	-	-	internal
5813611500	-	-	-	-	internal
5813611200	8 VA	-	10 VA	-	internal
5813611100	-	-	-	-	internal
5813611600	-	-	-	-	internal
5813611300	-	8 VA	-	10 VA	internal
5813611400	8 VA	-	10 VA	-	internal
5813611000	-	-	-	-	internal
5813612500	-	-	-	-	external
5813612200	8 VA	-	10 VA	-	external
5813612100	-	-	-	-	external
5813612600	-	-	-	-	external
5813612300	-	8 VA	-	10 VA	external
5813612400	8 VA	-	10 VA	-	external
5813612000	-	-	-	-	external
5813613500	-	-	-	-	external
5813613200	8 VA	-	10 VA	-	external
5813613100	-	-	-	-	external
5813613300	-	8 VA	-	10 VA	external
5813613400	8 VA	-	10 VA	-	external
5813613000	-	-	-	-	external

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5813610500	1,5 ... 10 bar	Plug Form B, industry
5813610200	1,5 ... 10 bar	Plug Form B, industry

Part No.	Working pressure min./max.	Electrical connection Pilot valve
5813610100	1,5 ... 10 bar	Plug Form B, industry
5813610600	1,5 ... 10 bar	Plug Form B, industry
5813610300	1,5 ... 10 bar	Plug Form B, industry
5813610400	1,5 ... 10 bar	Plug Form B, industry
5813610000	1,5 ... 10 bar	Plug Form B, industry
5813611500	1,5 ... 10 bar	Plug Form B, industry
5813611200	1,5 ... 10 bar	Plug Form B, industry
5813611100	1,5 ... 10 bar	Plug Form B, industry
5813611600	1,5 ... 10 bar	Plug Form B, industry
5813611300	1,5 ... 10 bar	Plug Form B, industry
5813611400	1,5 ... 10 bar	Plug Form B, industry
5813611000	1,5 ... 10 bar	Plug Form B, industry
5813612500	-0,95 ... 10 bar	Plug Form B, industry
5813612200	-0,95 ... 10 bar	Plug Form B, industry
5813612100	-0,95 ... 10 bar	Plug Form B, industry
5813612600	-0,95 ... 10 bar	Plug Form B, industry
5813612300	-0,95 ... 10 bar	Plug Form B, industry
5813612400	-0,95 ... 10 bar	Plug Form B, industry
5813612000	-0,95 ... 10 bar	Plug Form B, industry
5813613500	-0,95 ... 10 bar	Plug Form B, industry
5813613200	-0,95 ... 10 bar	Plug Form B, industry
5813613100	-0,95 ... 10 bar	Plug Form B, industry
5813613300	-0,95 ... 10 bar	Plug Form B, industry
5813613400	-0,95 ... 10 bar	Plug Form B, industry
5813613000	-0,95 ... 10 bar	Plug Form B, industry

Part No.	basic valve with electrical connector	Throttle
5813610500	-	-
5813610200	-	-
5813610100	-	-
5813610600	-	-
5813610300	-	-
5813610400	-	-
5813610000	Basic valve without coil	-
5813611500	-	with throttle
5813611200	-	with throttle
5813611100	-	with throttle
5813611600	-	with throttle
5813611300	-	with throttle
5813611400	-	with throttle
5813611000	Basic valve without coil	with throttle
5813612500	-	-
5813612200	-	-
5813612100	-	-
5813612600	-	-
5813612300	-	-

Part No.	basic valve with electrical connector	Throttle
5813612400	-	-
5813612000	Basic valve without coil	-
5813613500	-	with throttle
5813613200	-	with throttle
5813613100	-	with throttle
5813613300	-	with throttle
5813613400	-	with throttle
5813613000	Basic valve without coil	with throttle

Differential piston, signal 14 has priority, 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.

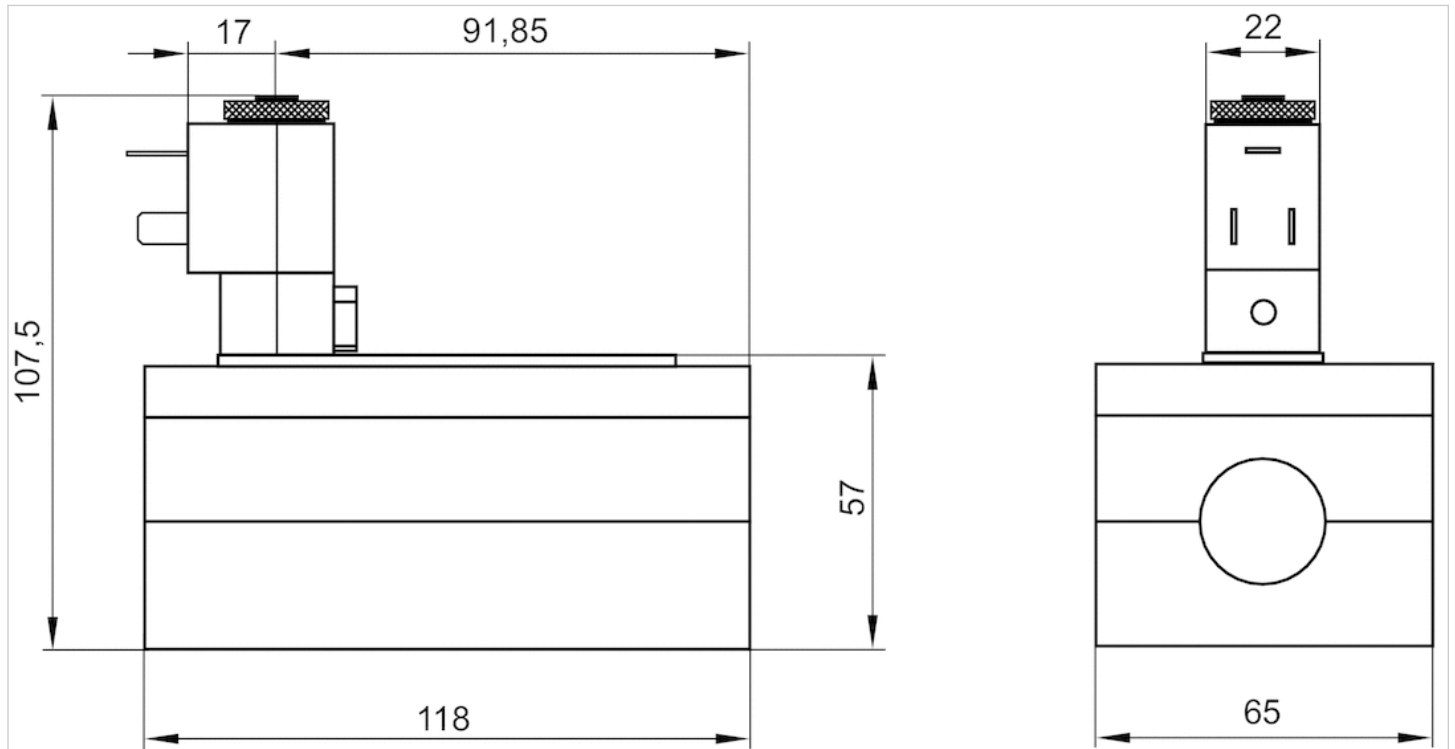
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

## Dimensions

### Dimensions



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