

5/3-directional valve, Series 581, size 1

- ISO 5599-1
- ISO 1
- 5/3
- Qn = 1100 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without 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.	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 Qn	1100 l/min
Flow conductance C	4,3 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,58 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC	Power consumption DC
5811490190			24 V	-10% / +10%	6 W
5811491190			24 V	-10% / +10%	6 W
5811492190			24 V	-10% / +10%	6 W
5811493190			24 V	-10% / +10%	6 W
5811590190			24 V	-10% / +10%	6 W
5811591190			24 V	-10% / +10%	6 W
5811592190			24 V	-10% / +10%	6 W
5811593190			24 V	-10% / +10%	6 W
5811790190			24 V	-10% / +10%	6 W
5811791190			24 V	-10% / +10%	6 W
5811792190			24 V	-10% / +10%	6 W
5811793190			24 V	-10% / +10%	6 W

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811490190	internal	3 ... 10 bar	Plug EN 175301-803, form A	-
5811491190	internal	3 ... 10 bar	Plug EN 175301-803, form A	with throttle
5811492190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	-
5811493190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	with throttle
5811590190	internal	3 ... 10 bar	Plug EN 175301-803, form A	-
5811591190	internal	3 ... 10 bar	Plug EN 175301-803, form A	with throttle
5811592190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	-
5811593190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	with throttle
5811790190	internal	3 ... 10 bar	Plug EN 175301-803, form A	-
5811791190	internal	3 ... 10 bar	Plug EN 175301-803, form A	with throttle
5811792190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	-
5811793190	external	-0,95 ... 10 bar	Plug EN 175301-803, form A	with throttle

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

