

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

- ISO 5599-1
- ISO 1
- 5/2
- With spring return
- $Q_n = 1400$ 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 ... 16 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	15 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0,35 kg

Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5811170540			24 V	42 V	-10% / +10%
5811170440			-	230 V	-
5811171540			24 V	42 V	-10% / +10%
5811171440			-	230 V	-
5811172540			24 V	42 V	-10% / +10%
5811172440			-	230 V	-
5811173540			24 V	42 V	-10% / +10%
5811173440			-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5811170540	-10% / +10%	6,7 W	7,7 VA	12 VA

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5811170440	-10% / +10%	-	10,8 VA	15,2 VA
5811171540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811171440	-10% / +10%	-	10,8 VA	15,2 VA
5811172540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811172440	-10% / +10%	-	10,8 VA	15,2 VA
5811173540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811173440	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811170540	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811170440	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811171540	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811171440	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811172540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811172440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811173540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811173440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	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

