

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

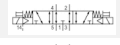
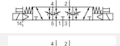
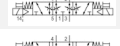

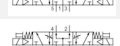
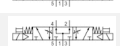
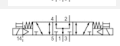

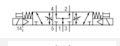


- ISO 5599-1
- ISO 1
- 5/3
- Qn = 1100 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



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 ... 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 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	0,5 kg

Technical data

Part No.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5811490540			24 V	42 V	-10% / +10%
5811490440			-	230 V	-
5811491540			24 V	42 V	-10% / +10%
5811491440			-	230 V	-
5811492540			24 V	42 V	-10% / +10%
5811492440			-	230 V	-
5811493540			24 V	42 V	-10% / +10%
5811493440			-	230 V	-
5811590540			24 V	42 V	-10% / +10%
5811590440			-	230 V	-
5811591540			24 V	42 V	-10% / +10%
5811591440			-	230 V	-
5811592540			24 V	42 V	-10% / +10%

Part No.	MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5811592440		-	230 V	-
5811593540		24 V	42 V	-10% / +10%
5811593440		-	230 V	-
5811790540		24 V	42 V	-10% / +10%
5811790440		-	230 V	-
5811791540		24 V	42 V	-10% / +10%
5811791440		-	230 V	-
5811792540		24 V	42 V	-10% / +10%
5811792440		-	230 V	-
5811793540		24 V	42 V	-10% / +10%
5811793440		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5811490540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811490440	-10% / +10%	-	10,8 VA	15,2 VA
5811491540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811491440	-10% / +10%	-	10,8 VA	15,2 VA
5811492540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811492440	-10% / +10%	-	10,8 VA	15,2 VA
5811493540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811493440	-10% / +10%	-	10,8 VA	15,2 VA
5811590540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811590440	-10% / +10%	-	10,8 VA	15,2 VA
5811591540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811591440	-10% / +10%	-	10,8 VA	15,2 VA
5811592540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811592440	-10% / +10%	-	10,8 VA	15,2 VA
5811593540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811593440	-10% / +10%	-	10,8 VA	15,2 VA
5811790540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811790440	-10% / +10%	-	10,8 VA	15,2 VA
5811791540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811791440	-10% / +10%	-	10,8 VA	15,2 VA
5811792540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811792440	-10% / +10%	-	10,8 VA	15,2 VA
5811793540	-10% / +10%	6,7 W	7,7 VA	12 VA
5811793440	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811490540	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811490440	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811491540	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811491440	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811492540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811492440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811493540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811493440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811590540	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811590440	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811591540	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811591440	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811592540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811592440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811593540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811593440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811790540	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811790440	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811791540	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811791440	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811792540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811792440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811793540	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811793440	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

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

