


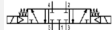

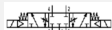
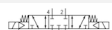


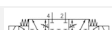


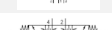
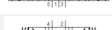
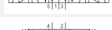
# 5/3-directional valve, Series 581, size 1

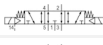
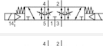


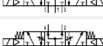
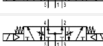
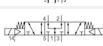

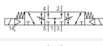


- ISO 5599-1
- ISO 1
- 5/3
- $Q_n = 1100 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



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 $\mu\text{m}$
Oil content of compressed air	0 ... 5 $\text{mg/m}^3$
Nominal flow $Q_n$	1100 l/min
Flow conductance C	4,3 $\text{l/(s}^*\text{bar)}$
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.		Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5811490530		24 V	-	-10% / +10%
5811490430		-	230 V	-
5811491530		24 V	-	-10% / +10%
5811491430		-	230 V	-
5811492530		24 V	-	-10% / +10%
5811492430		-	230 V	-
5811493530		24 V	-	-10% / +10%
5811493430		-	230 V	-
5811590530		24 V	-	-10% / +10%
5811590430		-	230 V	-
5811591530		24 V	-	-10% / +10%
5811591430		-	230 V	-
5811592530		24 V	-	-10% / +10%

Part No.		Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5811592430		-	230 V	-
5811593530		24 V	-	-10% / +10%
5811593430		-	230 V	-
5811790530		24 V	-	-10% / +10%
5811790430		-	230 V	-
5811791530		24 V	-	-10% / +10%
5811791430		-	230 V	-
5811792530		24 V	-	-10% / +10%
5811792430		-	230 V	-
5811793530		24 V	-	-10% / +10%
5811793430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5811490530	-	6,7 W	-	-
5811490430	-10% / +10%	-	10,8 VA	15,2 VA
5811491530	-	6,7 W	-	-
5811491430	-10% / +10%	-	10,8 VA	15,2 VA
5811492530	-	6,7 W	-	-
5811492430	-10% / +10%	-	10,8 VA	15,2 VA
5811493530	-	6,7 W	-	-
5811493430	-10% / +10%	-	10,8 VA	15,2 VA
5811590530	-	6,7 W	-	-
5811590430	-10% / +10%	-	10,8 VA	15,2 VA
5811591530	-	6,7 W	-	-
5811591430	-10% / +10%	-	10,8 VA	15,2 VA
5811592530	-	6,7 W	-	-
5811592430	-10% / +10%	-	10,8 VA	15,2 VA
5811593530	-	6,7 W	-	-
5811593430	-10% / +10%	-	10,8 VA	15,2 VA
5811790530	-	6,7 W	-	-
5811790430	-10% / +10%	-	10,8 VA	15,2 VA
5811791530	-	6,7 W	-	-
5811791430	-10% / +10%	-	10,8 VA	15,2 VA
5811792530	-	6,7 W	-	-
5811792430	-10% / +10%	-	10,8 VA	15,2 VA
5811793530	-	6,7 W	-	-
5811793430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811490530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811490430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811491530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811491430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811492530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811492430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5811493530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811493430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811590530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811590430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811591530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811591430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811592530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811592430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811593530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811593430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811790530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811790430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5811791530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811791430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811792530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811792430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5811793530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5811793430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

## 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

