


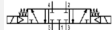

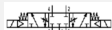
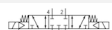


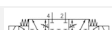


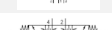
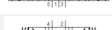
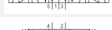
5/3-directional valve, Series 581, size 3

- ISO 5599-1
- ISO 3
- 5/3
- $Q_n = 4100 \text{ l/min}$
- 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 3
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	4100 l/min
Flow conductance C	14,1 $\text{l}/(\text{s} \cdot \text{bar})$
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	22 ms
Typ. switch-off time	61 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	10 Nm
Weight	1,14 kg

Technical data

Part No.		Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5813490530		24 V	-	-10% / +10%
5813490430		-	230 V	-
5813491530		24 V	-	-10% / +10%
5813491430		-	230 V	-
5813492530		24 V	-	-10% / +10%
5813492430		-	230 V	-
5813493530		24 V	-	-10% / +10%
5813493430		-	230 V	-
5813590530		24 V	-	-10% / +10%
5813590430		-	230 V	-
5813591530		24 V	-	-10% / +10%
5813591430		-	230 V	-
5813592530		24 V	-	-10% / +10%

Part No.		Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5813592430		-	230 V	-
5813593530		24 V	-	-10% / +10%
5813593430		-	230 V	-
5813790530		24 V	-	-10% / +10%
5813790430		-	230 V	-
5813791530		24 V	-	-10% / +10%
5813791430		-	230 V	-
5813792530		24 V	-	-10% / +10%
5813792430		-	230 V	-
5813793530		24 V	-	-10% / +10%
5813793430		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5813490530	-10% / +10%	6,7 W	-	-
5813490430	-10% / +10%	-	10,8 VA	15,2 VA
5813491530	-10% / +10%	6,7 W	-	-
5813491430	-10% / +10%	-	10,8 VA	15,2 VA
5813492530	-10% / +10%	6,7 W	-	-
5813492430	-10% / +10%	-	10,8 VA	15,2 VA
5813493530	-10% / +10%	6,7 W	-	-
5813493430	-10% / +10%	-	10,8 VA	15,2 VA
5813590530	-10% / +10%	6,7 W	-	-
5813590430	-10% / +10%	-	10,8 VA	15,2 VA
5813591530	-10% / +10%	6,7 W	-	-
5813591430	-10% / +10%	-	10,8 VA	15,2 VA
5813592530	-10% / +10%	6,7 W	-	-
5813592430	-10% / +10%	-	10,8 VA	15,2 VA
5813593530	-10% / +10%	6,7 W	-	-
5813593430	-10% / +10%	-	10,8 VA	15,2 VA
5813790530	-10% / +10%	6,7 W	-	-
5813790430	-10% / +10%	-	10,8 VA	15,2 VA
5813791530	-10% / +10%	6,7 W	-	-
5813791430	-10% / +10%	-	10,8 VA	15,2 VA
5813792530	-10% / +10%	6,7 W	-	-
5813792430	-10% / +10%	-	10,8 VA	15,2 VA
5813793530	-10% / +10%	6,7 W	-	-
5813793430	-10% / +10%	-	10,8 VA	15,2 VA

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5813490530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813490430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813491530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813491430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813492530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5813492430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-

Part No.	Pilot	Working pressure min./max.	Electrical connection Pilot valve	Throttle
5813493530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813493430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813590530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813590430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813591530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813591430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813592530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5813592430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5813593530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813593430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813790530	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813790430	internal	3 ... 16 bar	Plug EN 175301-803, form A	-
5813791530	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813791430	internal	3 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813792530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5813792430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	-
5813793530	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle
5813793430	external	-0,95 ... 16 bar	Plug EN 175301-803, form A	with throttle

Nominal flow Q_n 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

