

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

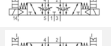
- ISO 5599-1
- ISO 3
- 5/3
- Qn = 4100 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



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 ... 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	4100 l/min
Flow conductance C	14,1 l/(s*bar)
Protection class with connection	IP65
Compatibility index	14
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.		MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5813490650		R-R-R-R-R-R-R-R-R-R-R-R-R-R-R-R	24 V	-	-10% / +10%
5813490450			-	230 V	-
5813491650			24 V	-	-10% / +10%
5813491450			-	230 V	-
5813492650			24 V	-	-10% / +10%
5813492450			-	230 V	-
5813493650			24 V	-	-10% / +10%
5813493450			-	230 V	-
5813590650			24 V	-	-10% / +10%
5813590450			-	230 V	-
5813591650			24 V	-	-10% / +10%
5813591450			-	230 V	-

Part No.	MO	Operationalvoltage DC	Operationalvoltage AC 50 Hz	Voltage tolerance DC
5813592650		24 V	-	-10% / +10%
5813592450		-	230 V	-
5813593650		24 V	-	-10% / +10%
5813593450		-	230 V	-
5813790650		24 V	-	-10% / +10%
5813790450		-	230 V	-
5813791650		24 V	-	-10% / +10%
5813791450		-	230 V	-
5813792650		24 V	-	-10% / +10%
5813792450		-	230 V	-
5813793650		24 V	-	-10% / +10%
5813793450		-	230 V	-

Part No.	Voltage tolerance AC 50 Hz	Power consumption DC	Holding power AC 50 Hz	Switch-on power AC 50 Hz
5813490650	-	2 W	-	-
5813490450	-10% / +10%	-	4,8 VA	7 VA
5813491650	-	2 W	-	-
5813491450	-10% / +10%	-	4,8 VA	7 VA
5813492650	-	2 W	-	-
5813492450	-10% / +10%	-	4,8 VA	7 VA
5813493650	-	2 W	-	-
5813493450	-10% / +10%	-	4,8 VA	7 VA
5813590650	-	2 W	-	-
5813590450	-10% / +10%	-	4,8 VA	7 VA
5813591650	-	2 W	-	-
5813591450	-10% / +10%	-	4,8 VA	7 VA
5813592650	-	2 W	-	-
5813592450	-10% / +10%	-	4,8 VA	7 VA
5813593650	-	2 W	-	-
5813593450	-10% / +10%	-	4,8 VA	7 VA
5813790650	-	2 W	-	-
5813790450	-10% / +10%	-	4,8 VA	7 VA
5813791650	-	2 W	-	-
5813791450	-10% / +10%	-	4,8 VA	7 VA
5813792650	-	2 W	-	-
5813792450	-10% / +10%	-	4,8 VA	7 VA
5813793650	-	2 W	-	-
5813793450	-10% / +10%	-	4,8 VA	7 VA

Part No.	Pilot	Working pressure min./max.	Compatibility index
5813490650	internal	3 ... 10 bar	14
5813490450	internal	3 ... 10 bar	14
5813491650	internal	3 ... 10 bar	14
5813491450	internal	3 ... 10 bar	14
5813492650	external	-0,95 ... 10 bar	14

Part No.	Pilot	Working pressure min./max.	Compatibility index
5813492450	external	-0,95 ... 10 bar	14
5813493650	external	-0,95 ... 10 bar	14
5813493450	external	-0,95 ... 10 bar	14
5813590650	internal	3 ... 10 bar	14
5813590450	internal	3 ... 10 bar	14
5813591650	internal	3 ... 10 bar	14
5813591450	internal	3 ... 10 bar	14
5813592650	external	-0,95 ... 10 bar	14
5813592450	external	-0,95 ... 10 bar	14
5813593650	external	-0,95 ... 10 bar	14
5813593450	external	-0,95 ... 10 bar	14
5813790650	internal	3 ... 10 bar	14
5813790450	internal	3 ... 10 bar	14
5813791650	internal	3 ... 10 bar	14
5813791450	internal	3 ... 10 bar	14
5813792650	external	-0,95 ... 10 bar	14
5813792450	external	-0,95 ... 10 bar	14
5813793650	external	-0,95 ... 10 bar	14
5813793450	external	-0,95 ... 10 bar	14

Part No.	Electrical connection Pilot valve	Throttle
5813490650	Plug EN 175301-803, form A	-
5813490450	Plug EN 175301-803, form A	-
5813491650	Plug EN 175301-803, form A	with throttle
5813491450	Plug EN 175301-803, form A	with throttle
5813492650	Plug EN 175301-803, form A	-
5813492450	Plug EN 175301-803, form A	-
5813493650	Plug EN 175301-803, form A	with throttle
5813493450	Plug EN 175301-803, form A	with throttle
5813590650	Plug EN 175301-803, form A	-
5813590450	Plug EN 175301-803, form A	-
5813591650	Plug EN 175301-803, form A	with throttle
5813591450	Plug EN 175301-803, form A	with throttle
5813592650	Plug EN 175301-803, form A	-
5813592450	Plug EN 175301-803, form A	-
5813593650	Plug EN 175301-803, form A	with throttle
5813593450	Plug EN 175301-803, form A	with throttle
5813790650	Plug EN 175301-803, form A	-
5813790450	Plug EN 175301-803, form A	-
5813791650	Plug EN 175301-803, form A	with throttle
5813791450	Plug EN 175301-803, form A	with throttle
5813792650	Plug EN 175301-803, form A	-
5813792450	Plug EN 175301-803, form A	-
5813793650	Plug EN 175301-803, form A	with throttle
5813793450	Plug EN 175301-803, form A	with throttle

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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

