Valve systems → Standardized valve systems

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

► Qn = 4100 l/min ► plate connection ► Pilot valve width: 30x22 mm CNOMO ► compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: with detent, without detent

00132308

Standards	ISO 5599-1
Version	Spool valve
Sealing principle	soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	See table below
Ambient temperature min./max.	-15°C / +50°C
Medium temperature min./max.	-15°C / +50°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pneumatic ports	Base plate ISO 5599-1
Protection classwith electrical connector/ plug	IP 65
Duty cycle	100 %
Switch-on time	22 ms
Switch-off time	61 ms
Mounting screw	with hexagon socket
mounting screw tightening torque	10 Nm
Materials:	
Housing	Aluminum
Seals	Acrylonitrile Butadiene Rubber

Technical Remarks

- 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

Operating voltage		Voltage tolerance		Power consumption	Switch-on power	Holding power
DC	AC 50 Hz	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz
				W	VA	VA
24 V	-	-10% / +10%	-	2	-	-
-	230 V	-	-10% / +10%	-	7	4.8

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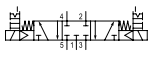
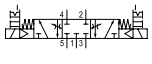
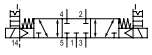
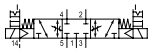
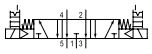
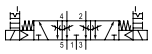
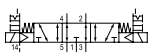
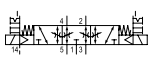
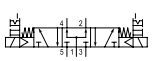
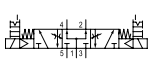
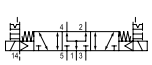
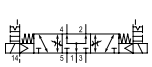
	MO	Operating voltage		Flow conductance	Qn	Working pressure min./ max.	Control pressure min./ max.	Compatibility index		Note	Part No.
		DC	AC 50 Hz	C							
				[l/(s*bar)]	[l/min]	[bar]	[bar]		[kg]		
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2)	**5813490650** **5813490450**
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2); 4)	**5813491650** 5813491450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3)	**5813492650** 5813492450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3); 4)	5813493650 5813493450
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2)	**5813590650** 5813590450
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2); 4)	**5813591650** 5813591450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3)	5813592650 5813592450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3); 4)	5813593650 5813593450
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2)	**5813790650** 5813790450
	I	24 V -	- 230 V	14.1	4100	3 / 10	3 / 10	14	1.14	1); 2); 4)	5813791650 5813791450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3)	5813792650 5813792450
	I	24 V -	- 230 V	14.1	4100	-0.95 / 10	3 / 10	14	1.14	1); 3); 4)	5813793650 5813793450

MO = Manual override
1) A working pressure of up to 16 bar is possible in the version with manual override without detent.
2) Pilot: internal
3) Pilot: external
4) with throttle
Nominal flow Qn at 6 bar and Δp = 1 bar

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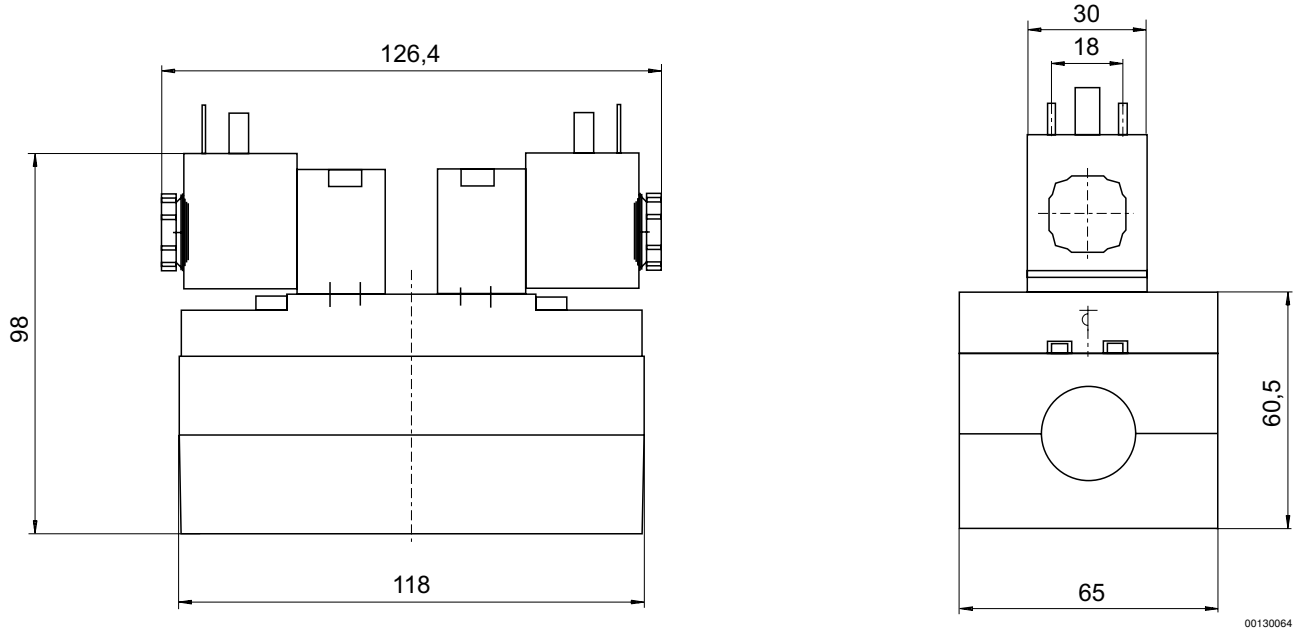
Dimensions