Valve systems → Supplementary products

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

► Qn = 4100 l/min ► plate connection ► Pilot valve width: 30x30 mm CNOMO ► compressed air connection output: Base plate ISO 5599-1 ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent

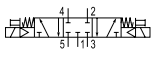
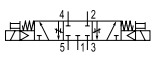
00132316

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
DC	DC	DC
		W
24 V	-10% / +10%	6

	MO	Operating voltage	Flow con-ductance	Qn	Working pressure min./max.	Control pressure min./max.	Weight	Note	Part No.
		DC	C						
			[l/(s*bar)]	[l/min]	[bar]	[bar]	[kg]		
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1)	5813490190
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1); 3)	5813491190

MO = Manual override
1) Pilot: internal
2) Pilot: external
3) with throttle
Nominal flow Qn at 6 bar and Δp = 1 bar

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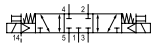
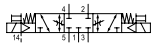
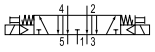
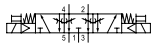
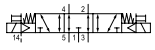
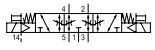
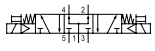
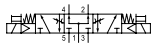
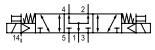
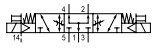
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2)	5813492190
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2); 3)	5813493190
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1)	5813590190
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1); 3)	5813591190
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2)	5813592190
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2); 3)	5813593190
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1)	5813790190
		24 V	14.1	4100	3 / 10	3 / 10	1.22	1); 3)	5813791190
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2)	5813792190
		24 V	14.1	4100	-0.95 / 10	3 / 10	1.22	2); 3)	5813793190

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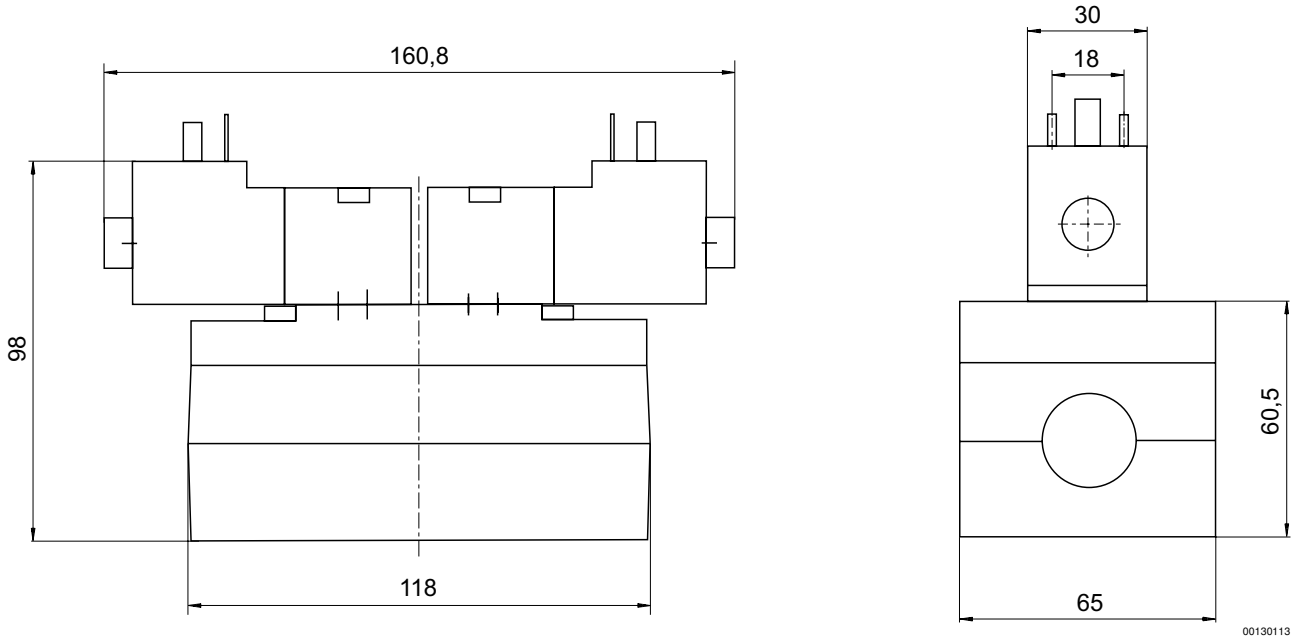
Dimensions