Valve systems → Standardized valve systems

5/3-way valve, Series 581, size 1

► Qn = 1100 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: without detent

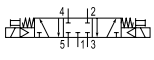
00132147

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	14 ms
Switch-off time	28 ms
Mounting screw	with hexagon socket
mounting screw tightening torque	2 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	42 V	-10% / +10%	-10% / +10%	6.7	12	7.7
-	230 V	-	-10% / +10%	-	15.2	10.8

	MO	Operating voltage		Flow con-ductance	Qn	Working pressure min./max.	Control pressure min./max.	Weight	Note	Part No.
		DC	AC 50 Hz	C						
				[l/(s*bar)]	[l/min]	[bar]	[bar]	[kg]		
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1)	**5811490540** 5811490440

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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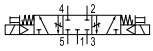
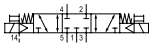
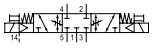
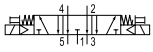
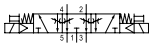
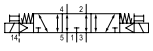
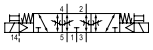
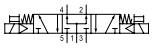
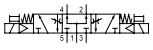
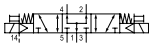
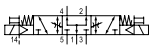
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1); 3)	5811491540 5811491440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2)	5811492540 5811492440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2); 3)	5811493540 5811493440
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1)	**5811590540** 5811590440
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1); 3)	5811591540 5811591440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2)	5811592540 5811592440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2); 3)	5811593540 5811593440
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1)	5811790540 5811790440
		24 V -	42 V 230 V	4.3	1100	3 / 16	3 / 16	0.5	1); 3)	5811791540 5811791440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2)	5811792540 5811792440
		24 V -	42 V 230 V	4.3	1100	-0.95 / 16	3 / 16	0.5	2); 3)	5811793540 5811793440

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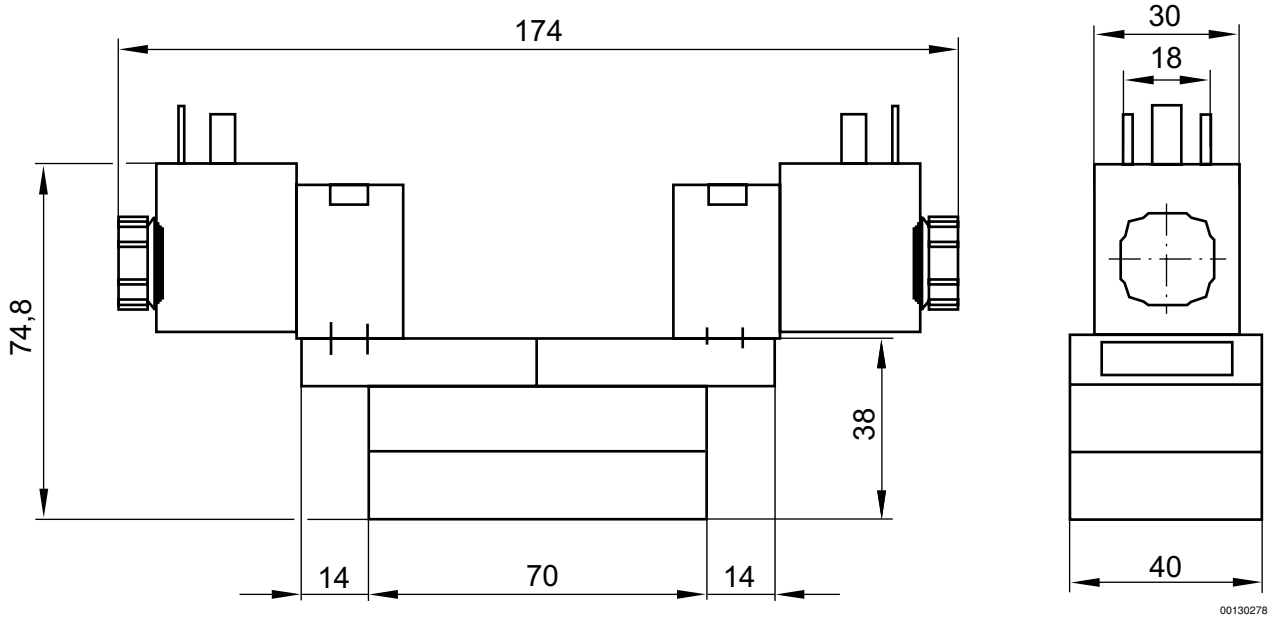
Dimensions