

Directional valves ▶ Electrically operated, according to standard

5/3-directional 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, ISO 1
Version	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 16 bar
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
Nominal flow Qn	1100 l/min
Pneumatic ports	Base plate ISO 5599-1
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	14 ms
Typ. switch-off time	28 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.5 kg
Materials:	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber

Technical Remarks

- 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, see chapter „Technical information“.

Operational 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

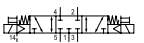
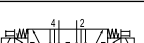
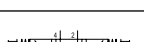
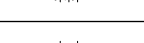
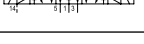
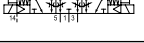
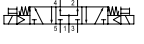
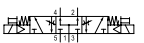
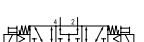
MO	Compressed air connection			Operating voltage		Power consumption	Holding power	Switch-on power	Part No.	
	Output	Exhaust	Pilot connection	DC	AC 50 Hz					
			[Exhaust]			[W]	[VA]	[VA]		
		Base plate ISO 5599-1	Base plate ISO	M5	24 V	42 V	6.7	7.7	12	5811490540
					-	230 V	-	10.8	15.2	5811490440
		Base plate ISO 5599-1	Base plate ISO	M5	24 V	42 V	6.7	7.7	12	5811491540
					-	230 V	-	10.8	15.2	5811491440

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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▶ 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

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		Output	Exhaust	Pilot connection	DC	AC 50 Hz	DC	AC 50 Hz	AC 50 Hz	
							[W]	[VA]	[VA]	
	☐	Base plate ISO 5599-1	Base plate ISO	M5	24 V -	42 V 230 V	6.7 -	7.7 10.8	12 15.2	5811492540 5811492440
	☐	Base plate ISO 5599-1	Base plate ISO 5599-1	M5	24 V -	42 V 230 V	6.7 -	7.7 10.8	12 15.2	5811493540 5811493440
	☐	Base plate ISO 5599-1	Base plate ISO 5599-1	M5	24 V -	42 V 230 V	6.7 -	7.7 10.8	12 15.2	5811590540 5811590440
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Part No.	Flow conductance	Working pressure min./max.	Note
	C		
	[l/(s*bar)]	[bar]	
5811490540 5811490440	4.3	3 / 16	1)
5811491540 5811491440	4.3	3 / 16	1); 3)
5811492540 5811492440	4.3	-0.95 / 16	2)
5811493540 5811493440	4.3	-0.95 / 16	2); 3)
5811590540 5811590440	4.3	3 / 16	1)
5811591540 5811591440	4.3	3 / 16	1); 3)
5811592540 5811592440	4.3	-0.95 / 16	2)

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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5811793540 5811793440	4.3	-0.95 / 16	2); 3)

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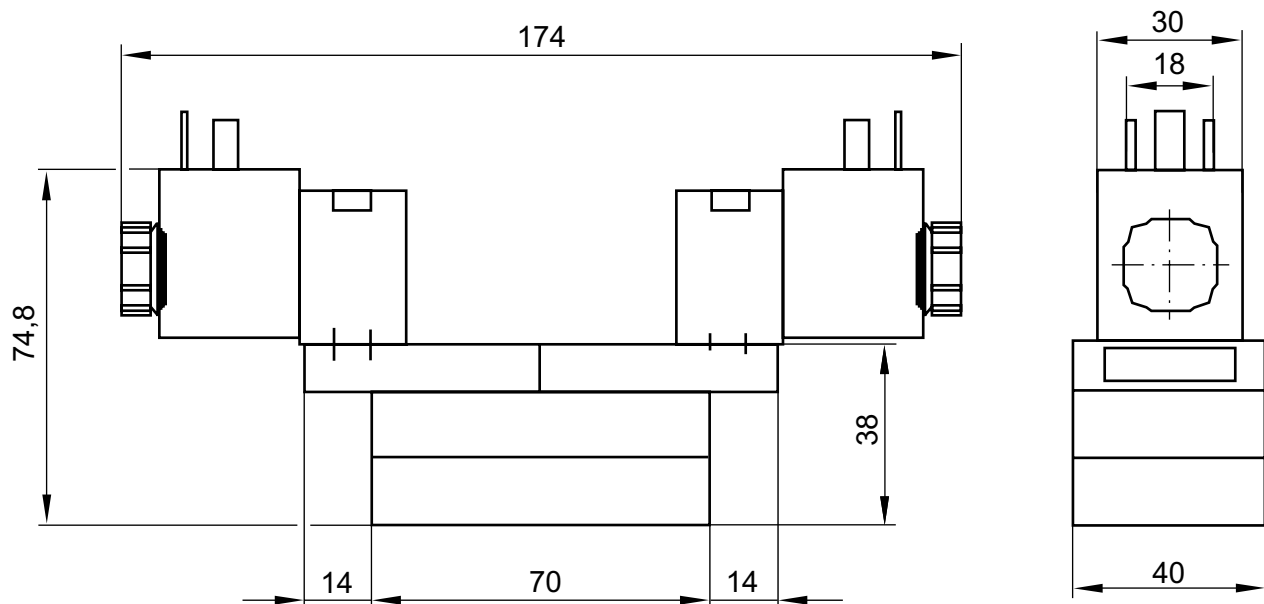
1) Pilot: internal

2) Pilot: external

3) with throttle

Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions



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