

## Directional valves ▶ Electrically operated, according to standard

### 5/2-directional valve, Series 581, size 2

▶ Qn = 2700 l/min ▶ plate connection ▶ Pilot valve width: 22 mm ▶ Compressed air connection output: Base plate ISO 5599-1 ▶ Electr. connection: Plug, Form B, industry ▶ Manual override: with detent



00132180

Standards	ISO 5599-1, ISO 2
Version	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	See table below
Control pressure min./max.	2 bar / 10 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	2700 l/min
Pneumatic ports	Base plate ISO 5599-1
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	13 ms
Typ. switch-off time	13 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	3.5 Nm
Weight	0.42 kg
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

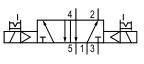

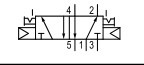

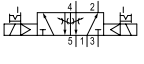

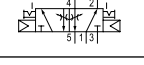

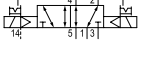

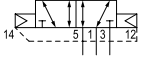

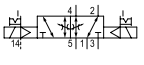

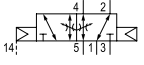

#### Technical Remarks

- 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	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
12 V	-	-	-10% / +10%	-	-	5	-	-	-	-
-	24 V	-	-	-10% / +10%	-	-	10	-	8	-
24 V	-	-	-10% / +10%	-	-	5	-	-	-	-
48 V	-	-	-10% / +10%	-	-	5	-	-	-	-
-	-	110 V	-	-	-10% / +10%	-	-	10	-	8
-	230 V	-	-	-10% / +10%	-	-	10	-	8	-

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	MO	Compressed air connection			Operating voltage			Power consumption		Part No.	
		Output	Exhaust	Pilot Exhaust	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz		
								[W]	[VA]		
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	12 V	-	-	5	-	5812220500	
					-	24 V	-	-	-	8	5812220200
					24 V	-	-	5	-	<b>5812220100</b>	
					48 V	-	-	5	-	5812220600	
					-	-	110 V	-	-	5812220300	
-	230 V	-	-	-	8	5812220400					
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	-	-	-	-	-	<b>5812220000</b>	
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	12 V	-	-	5	-	5812221500	
					-	24 V	-	-	-	8	5812221200
					24 V	-	-	5	-	<b>5812221100</b>	
					48 V	-	-	5	-	5812221600	
					-	-	110 V	-	-	5812221300	
-	230 V	-	-	-	8	<b>5812221400</b>					
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	-	-	-	-	-	<b>5812221000</b>	
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	12 V	-	-	5	-	5812222500	
					-	24 V	-	-	-	8	5812222200
					24 V	-	-	5	-	5812222100	
					48 V	-	-	5	-	5812222600	
					-	-	110 V	-	-	5812222300	
-	230 V	-	-	-	8	5812222400					
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	-	-	-	-	-	5812222000	
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	12 V	-	-	5	-	5812223500	
					-	24 V	-	-	-	8	5812223200
					24 V	-	-	5	-	5812223100	
					48 V	-	-	5	-	5812223600	
					-	-	110 V	-	-	5812223300	
-	230 V	-	-	-	8	5812223400					
		Base plate ISO 5599-1	Base plate ISO 5599-1	M5	-	-	-	-	-	5812223000	

Part No.	Holding power	Switch-on power		Flow conductance	Working pressure min./max.	Note
		AC 50 Hz	AC 60 Hz			
		[VA]	[VA]			
5812220500	-	-	-	10.8	2 / 10	1)
5812220200	-	10	-			
<b>5812220100</b>	-	-	-			
5812220600	-	-	-			
5812220300	8	-	10			
5812220400	-	10	-			

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

4) with throttle

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar

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Part No.	Holding power	Switch-on power	Switch-on power	Flow conductance	Working pressure min./max.	Note
	AC 60 Hz	AC 50 Hz	AC 60 Hz	C		
	[VA]	[VA]	[VA]	[l/(s*bar)]	[bar]	
<b>5812220000</b>	-	-	-	10.8	2 / 10	1); 3)
5812221500	-	-	-	10.8	2 / 10	1); 4)
5812221200	-	10	-			
<b>5812221100</b>	-	-	-			
5812221600	-	-	-			
5812221300	8	-	10			
<b>5812221400</b>	-	10	-			
<b>5812221000</b>	-	-	-	10.8	2 / 10	1); 3); 4)
5812222500	-	-	-	10.8	-0.95 / 10	2)
5812222200	-	10	-			
5812222100	-	-	-			
5812222600	-	-	-			
5812222300	8	-	10			
5812222400	-	10	-			
5812222000	-	-	-	10.8	-0.95 / 10	2); 3)
5812223500	-	-	-	10.8	-0.95 / 10	2); 4)
5812223200	-	10	-			
5812223100	-	-	-			
5812223600	-	-	-			
5812223300	8	-	10			
5812223400	-	10	-			
5812223000	-	-	-	10.8	-0.95 / 10	2); 3); 4)

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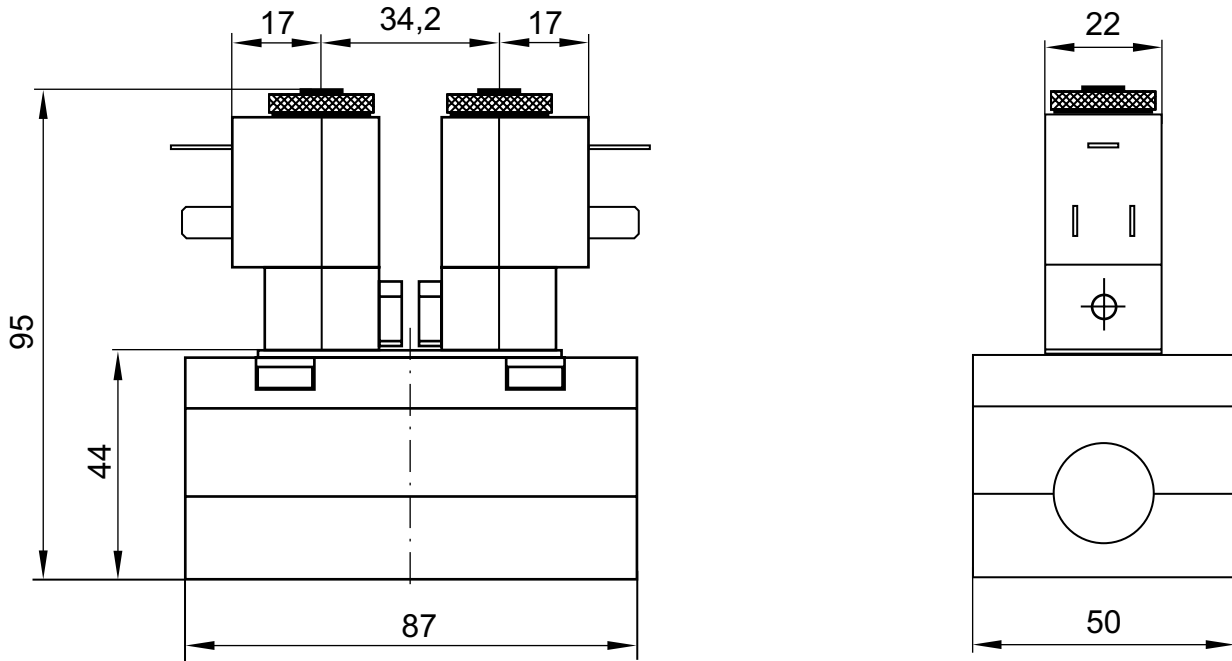
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### Dimensions



00132632

The pilot valves can be loosened and turned through 180°.