

Valve systems ▶ Standardized valve systems

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



00132179

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/m ³ - 5 mg/m ³
Pneumatic ports	Base plate ISO 5599-1

Protection class with electrical connector/plug	IP65
Duty cycle	100 %
Switch-on time	15 ms
Switch-off time	36 ms
Mounting screw	with hexagon socket
mounting screw tightening torque	3.5 Nm

Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber

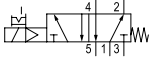

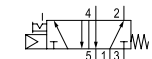



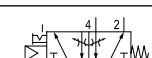



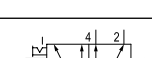



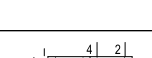

Technical Remarks

- 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	Operational voltage -20% / +20%			Flow con- ductance [l/(s*bar)]	Qn [l/min]	Working pressure min./ max. [bar]	Control pressure min./ max. [bar]	Weight [kg]	Note	Part No.	
		DC	AC 50 Hz	AC 60 Hz								C
		12 V - 24 V 48 V - - 230 V	- 24 V - - - 230 V	- - - 110 V -	10.8	2700	3 / 10	3 / 10	0.34	1)	5812110500 5812110200 5812110100 5812110600 5812110300 5812110400	
		-	-	-	10.8	2700	3 / 10	3 / 10	0.34	1); 3)	5812110000	
		12 V - 24 V 48 V - - 230 V	- 24 V - - - 230 V	- - - 110 V -	10.8	2700	3 / 10	3 / 10	0.34	1); 4)	5812111500 5812111200 5812111100 5812111600 5812111300 5812111400	
		-	-	-	10.8	2700	3 / 10	3 / 10	0.34	1); 3); 4)	5812111000	
		12 V - 24 V 48 V - - 230 V	- 24 V - - - 230 V	- - - 110 V -	10.8	2700	-0.95 / 10	3 / 10	0.34	2)	5812112500 5812112200 5812112100 5812112600 5812112300 5812112400	
		-	-	-	10.8	2700	-0.95 / 10	3 / 10	0.34	2); 3)	5812112000	
		12 V - 24 V 48 V - - 230 V	- 24 V - - - 230 V	- - - 110 V -	10.8	2700	-0.95 / 10	3 / 10	0.34	2); 4)	5812113500 5812113200 5812113100 5812113600 5812113300 5812113400	
		-	-	-	10.8	2700	-0.95 / 10	3 / 10	0.34	2); 3); 4)	5812113000	

HHB = Manual override

1) Pilot: internal

2) Pilot: External

3) Basic valve without coil

4) with throttle

Connection 12 must be connected with atmospheres

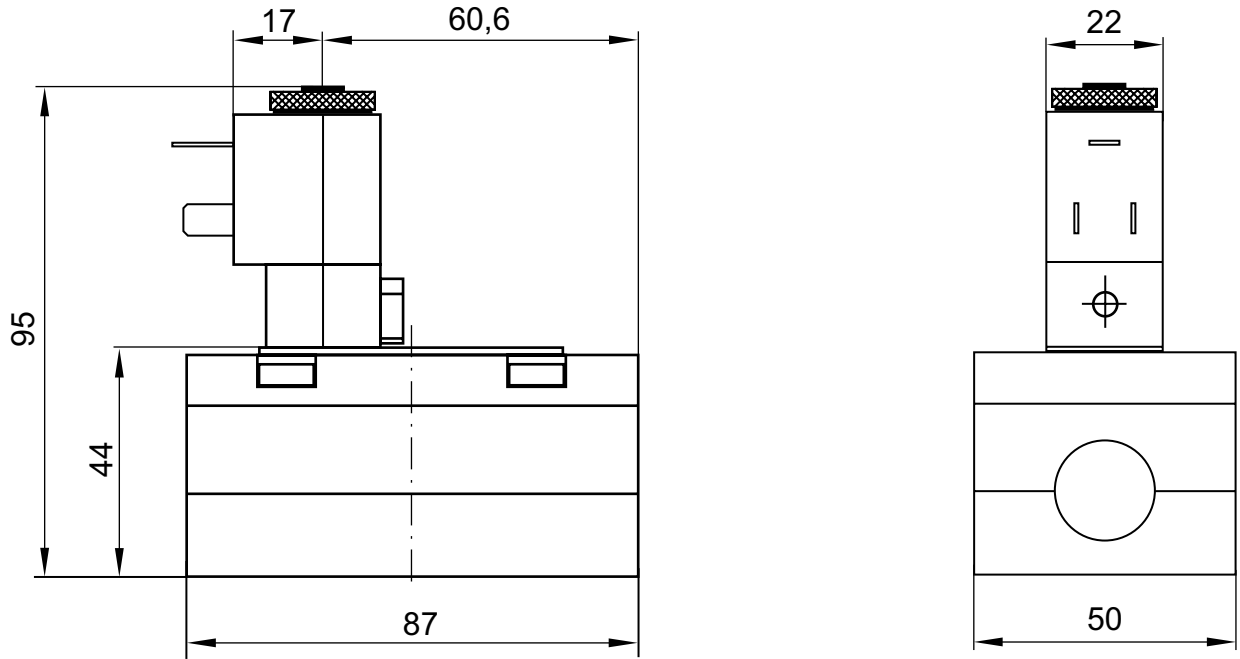
Nominal flow Qn at 6 bar and Δp = 1 bar

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Dimensions



00132631

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