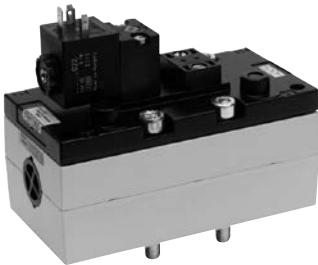


Valve systems ▶ Standardized valve systems

## 5/2-directional valve, Series 581, size 4

▶ Qn = 6000 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: with detent, without detent ▶ with differential piston



00132612

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 class with electrical connector/plug	IP65
Duty cycle	100 %
Switch-on time	33 ms
Switch-off time	77 ms
Mounting screw	with hexagon socket
mounting screw tightening torque	10 Nm
Materials:	
Housing	Aluminum
Seals	Acrylonitrile Butadiene Rubber

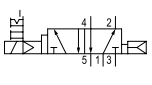

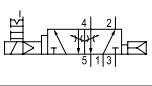

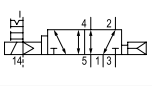

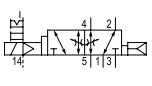

### Technical Remarks

- 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	-	-10% / +10%	-	2	-	-
-	230 V	-	-10% / +10%	-	7	4.8

### 5/2-directional valve, Series 581, size 4

▶  $Q_n = 6000$  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: with detent, without detent ▶ with differential piston

	MO	-20% / +20%		Flow conductance	Qn	Working pressure min./max.	Control pressure min./max.	Compatibility index	Note	Part No.	
		DC	AC 50 Hz	C	[l/(s*bar)]	[l/min]	[bar]				[bar]
		24 V	-	24.5	6000	1.5 / 10	1.5 / 10	14	1.4	1); 2)	5814670650
		-	230 V								5814670450
		24 V	-	24.5	6000	1.5 / 10	1.5 / 10	14	1.4	1); 2); 4)	5814671650
		-	230 V								5814671450
		24 V	-	24.5	6000	-0.95 / 10	1.5 / 10	14	1.4	1); 3)	5814672650
		-	230 V								5814672450
		24 V	-	24.5	6000	-0.95 / 10	1.5 / 10	14	1.4	1); 3); 4)	5814673650
		-	230 V								5814673450

HHB = Manual override

1) A working pressure of up to 16 bar is possible in the version with manual override without detent.

2) Pilot: internal

3) Pilot: External

4) with throttle

Differential piston, signal 14 has priority

The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1$  bar

### Dimensions

