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 / $+50^{\circ}$ C Medium temperature min./max. -15° C / $+50^{\circ}$ C Compressed air

Max. particle size 50 μ m

Oil content of compressed air 0 mg/m^3 - 5 mg/m^3 Pneumatic ports Base plate ISO 5599-1

Protection classwith electrical connector/ IP 65

plug

Duty cycle100 %Switch-on time33 msSwitch-off time77 ms

Mounting screw with hexagon socket

mounting screw tightening torque 10 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 compressed air must remain constant during the life cycle.
- Use only the approved oils from Rexroth Pneumatics, see chapter "Technical information".

| | Oper volt | • | | age ance | 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 | - | - |
| l | - | 230 V | - | -10% / +10% | - | 7 | 4.8 |

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| | МО | Operating voltage | | Flow conductance | Qn | Working pressure min./ | Control pressure min./ | Compatibili- ty index | | Note | Part No. |
|---|----|-------------------|-------------|------------------|---------|------------------------|------------------------|--------------------------|------|---------------|------------|
| | | DC | AC 50 Hz | С | | | | | | | |
| | | | | [l/(s*bar)] | [l/min] | [bar] | [bar] | | [kg] | | |
| 4 2 5 113 | | 24 V | - | 24.5 | 6000 | 1.5 / 10 | 1.5 / 10 | 14 | 1.4 | 1); 2) | 5814670650 |
| 5 1 3 | | - | 230 V | | | | | | | | 5814670450 |
| 4 2 5 1 3 | | 24 V | - | 24.5 | 6000 | 1.5 / 10 | 1.5 / 10 | 14 | 1.4 | 1); 2); 4) | 5814671650 |
| 5 1 3 | | - | 230 V | | | | | | | 4) | 5814671450 |
| 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | 24 V | - | 24.5 | 6000 | -0.95 / 10 | 1.5 / 10 | 14 | 1.4 | 1); 3) | 5814672650 |
| 14 5 1 3 | | - | 230 V | | | | | | | | 5814672450 |
| | | 24 V | - | 24.5 | 6000 | -0.95 / 10 | 1.5 / 10 | 14 | 1.4 | 1); 3); | 5814673650 |
| 14 5 1 3 | | - | 230 V | | | | | | | 4) | 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 $\dot{Q}n$ at 6 bar and $\Delta \dot{p} = 1$ bar

Dimensions



