Valve systems → Standardized valve systems

5/3-way valve, Series 581, size 2

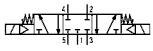
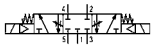
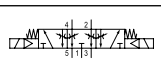
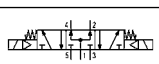
► Qn = 2100 l/min ► plate connection ► Pilot valve width: 30 mm ► compressed air connection output: Base plate ISO 5599-1 ► Basic valve for CNOMO pilot valve ► suitable for ATEX

00132204

Standards	ISO 5599-1
ATEX	2G Ex mb II T42D Ex tD A21 T130°C
Version	Spool valve
Pilot	external, internal
Sealing principle	soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 16 bar
Ambient temperature min./max.	-20°C / +70°C
Medium temperature min./max.	-20°C / +70°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 classwith electrical connector/ plug	IP 65
Duty cycle	100 %
Mounting screw	with hexagon socket
mounting screw tightening torque	3.5 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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.
- * Note: ATEX version can be produced by combining the basic valve without coil with a series DO30 CNOMO pilot valve and an ATEX coil.ATEX ID: see ATEX coils catalog page.

	Flow conductance	Qn	Control pressure min./max.	Weight	Note	Part No.
	C					
	[l/(s*bar)]	[l/min]	[bar]	[kg]		
	8.9	2100	3 / 16	0.42	1); 2)	**5812480000**
	8.9	2100	3 / 16	0.42	1); 2); 3)	5812481000
	8.9	2100	3 / 16	0.42	1); 2)	5812580000
	8.9	2100	3 / 16	0.42	1); 2); 3)	5812581000
	8.9	2100	3 / 16	0.42	1); 2)	5812780000

1) The pilot can be set by turning the seal under the valve cover by 180°.
2) For internal pilot the working pressure min/max is the same as the control pressure min/max.
3) with throttle
Basic valve without pilot valve
Nominal flow Qn at 6 bar and Δp = 1 bar

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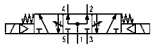	8.9	2100	3 / 16	0.42	1); 2); 3)	5812781000

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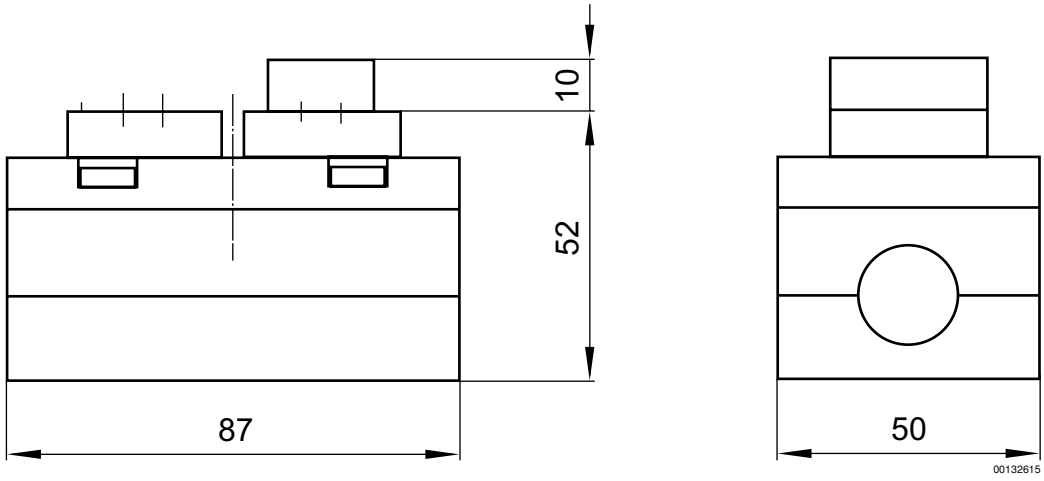
Dimensions