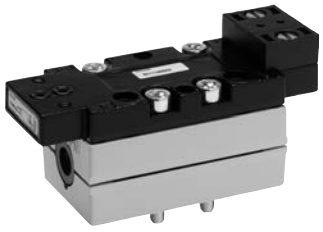
Valve systems ► Standardized valve systems

5/2-directional valve, Series 581, size 1

► Qn = 1400 l/min ► plate connection ► Pilot valve width: 30 mm ► compressed air connection output: Base plate ISO 5599-1 ► Basic valve for CNOMO pilot valve ► single solenoid ► suitable for ATEX



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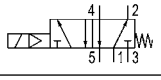
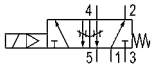
Standards	ISO 5599-1
ATEX	II 2G2D T4 X
Version	Spool valve
Pilot	External, internal
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Working pressure min./max.	-0.95 bar / 16 bar
Ambient temperature min./max.	-20°C / +70°C
Medium temperature min./max.	-20°C / +70°C
Medium	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	IP65
Duty cycle	100 %
Mounting screw	with hexagon socket
mounting screw tightening torque	2 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“.
- *) Note: ATEX variants can be manufactured by combining the basic valve without a coil with a CNOMO pilot valve, series DO30, and an ATEX coil. ATEX ID: see ATEX coils catalog sheet.

	Flow conductance	Qn	Control pressure min./max.	Weight	Note	Part No.
	C					
	[l/(s*bar)]	[l/min]	[bar]	[kg]		
	5.2	1400	3 / 16	0.21	1); 2)	**5811180000**
	5.2	1400	3 / 16	0.21	1); 2); 3)	5811181000

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

5/2-directional valve, Series 581, size 1

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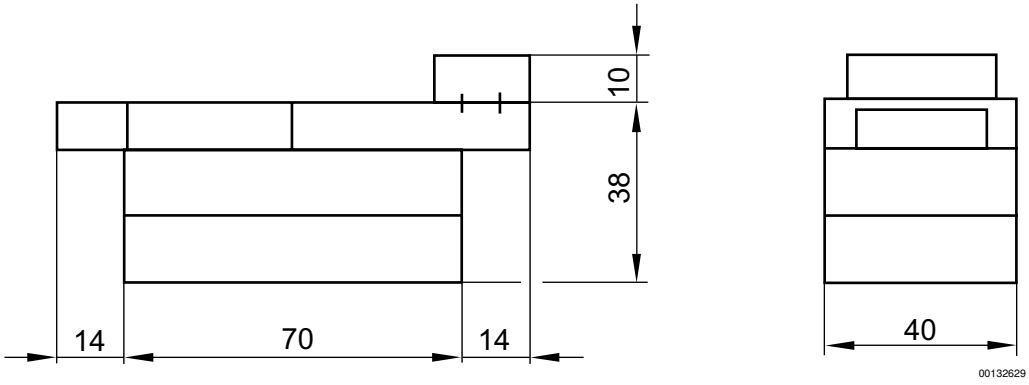
Dimensions