Valve systems → Standardized valve systems

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

► Qn = 4100 l/min ► plate connection ► compressed air connection output: Base plate ISO 5599-1 ► Can be assembled into blocks ► suitable for ATEX

00132325

Standards	ISO 5599-1
ATEX	2G Ex mb II T42D Ex tD A21 T130°C
Version	Spool valve
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
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 air pressure must remain constant during the life cycle.
- Use only the approved oils from Bosch Rexroth, see chapter „Technical information“.

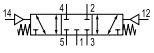
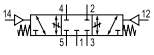
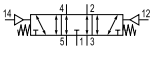
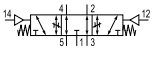
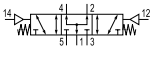
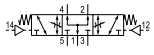
	Flow conductance	Qn	Control pressure min./max.	Weight	Fig.	Note	Part No.
	C						
	[l/(s*bar)]	[l/min]	[bar]	[kg]			
	14.1	4100	3 / 16	0.85	- Fig. 1	-	**5813430000** 5813440000
	14.1	4100	3 / 16	0.85	- Fig. 1	1)	**5813431000** 5813441000
	14.1	4100	3 / 16	0.85	- Fig. 1	-	**5813530000** 5813540000
	14.1	4100	3 / 16	0.85	- Fig. 1	1)	5813531000 5813541000
	14.1	4100	3 / 16	0.85	- Fig. 1	-	5813730000 5813740000
	14.1	4100	3 / 16	0.85	- Fig. 1	1)	5813731000 5813741000

Fig. 1 Valve cover with two connection locations for mounting series 551 logic modules.
1) with throttle
Nominal flow Qn at 6 bar and Δp = 1 bar

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Dimensions

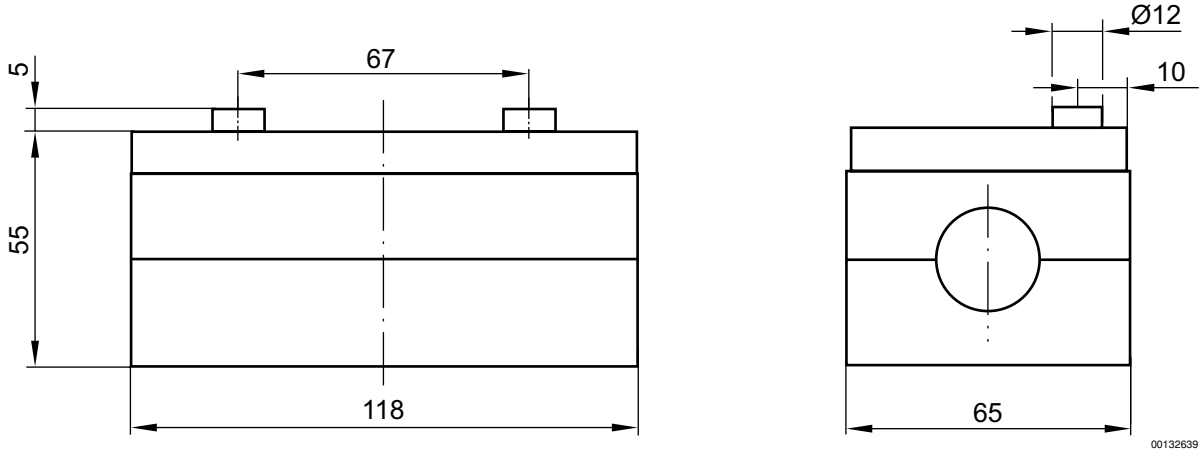
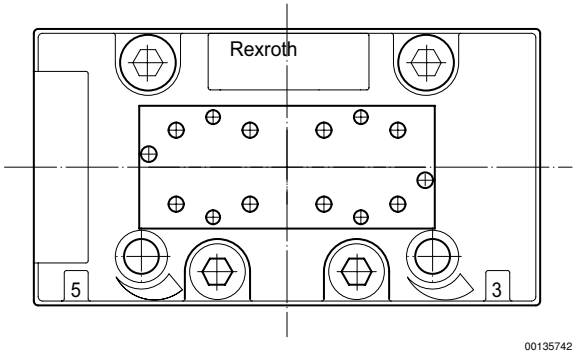
Fig. 1, Hole pattern for logic modules