

Directional valves → Electrically operated

5/3-way valve, Series TC15

► Qn = 1300 l/min ► pipe connection ► compressed air connection output: G 1/4 ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent ► double solenoid



00137677

Version	Spool valve, zero overlap
Sealing principle	soft sealing
Mounting on manifold strip	P-strip
Working pressure min./max.	See table below
Control pressure min./max.	3 bar / 10 bar
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	ISO 15217:2000
Degree of protection with electrical connector/plug	IP 65
Duty cycle	100 %
Switch-on time	12 ms
Switch-off time	13 ms
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2.5 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Hydrogenated nitrile butadiene rubber
Front plate	Polyamide, fiber-glass reinforced

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“.

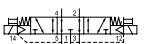
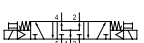
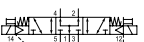
Operating voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2

	MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Nominal resistance	Part No.
		Input	Output	Exhaust	Pilot connection		b	C			
						DC			Qn		
								[l/(s*bar)]	[l/min]		
		G 1/4	G 1/4	G 1/4	- M5	24 V -	0.31	5.9	1300	280 -	0820059101 R422103072
		G 1/4	G 1/4	G 1/4	M5 -	24 V -	0.31	5.9	1300	280 -	0820059151 R422103074

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		Input	Output	Exhaust	Pilot connection	DC	b	C	Qn		
								[l/(s*bar)]	[l/min]		
		G 1/4	G 1/4	G 1/4	- M5	24 V -	0.31	5.9	1300	280 -	0820059111 R422103076
		G 1/4	G 1/4	G 1/4	M5	24 V	0.31	5.9	1300	280	0820059161
		G 1/4	G 1/4	G 1/4	-	24 V	0.31	5.9	1300	280	0820059121
		G 1/4	G 1/4	G 1/4	M5	24 V	0.31	5.9	1300	280	0820059171

Part No.	Working pressure min./max.	Weight	Note
	[bar]	[kg]	
0820059101 R422103072	3 / 10 -0.9 / 10	0.278	1) 2); 3)
0820059151 R422103074	-0.9 / 10 3 / 10	0.278	2) 1); 3)
0820059111 R422103076	3 / 10 -0.9 / 10	0.278	1) 2); 3)
0820059161	-0.9 / 10	0.278	2)
0820059121	3 / 10	0.278	1)
0820059171	-0.9 / 10	0.278	2)

MO = Manual override

1) Pilot: internal

2) Pilot: external

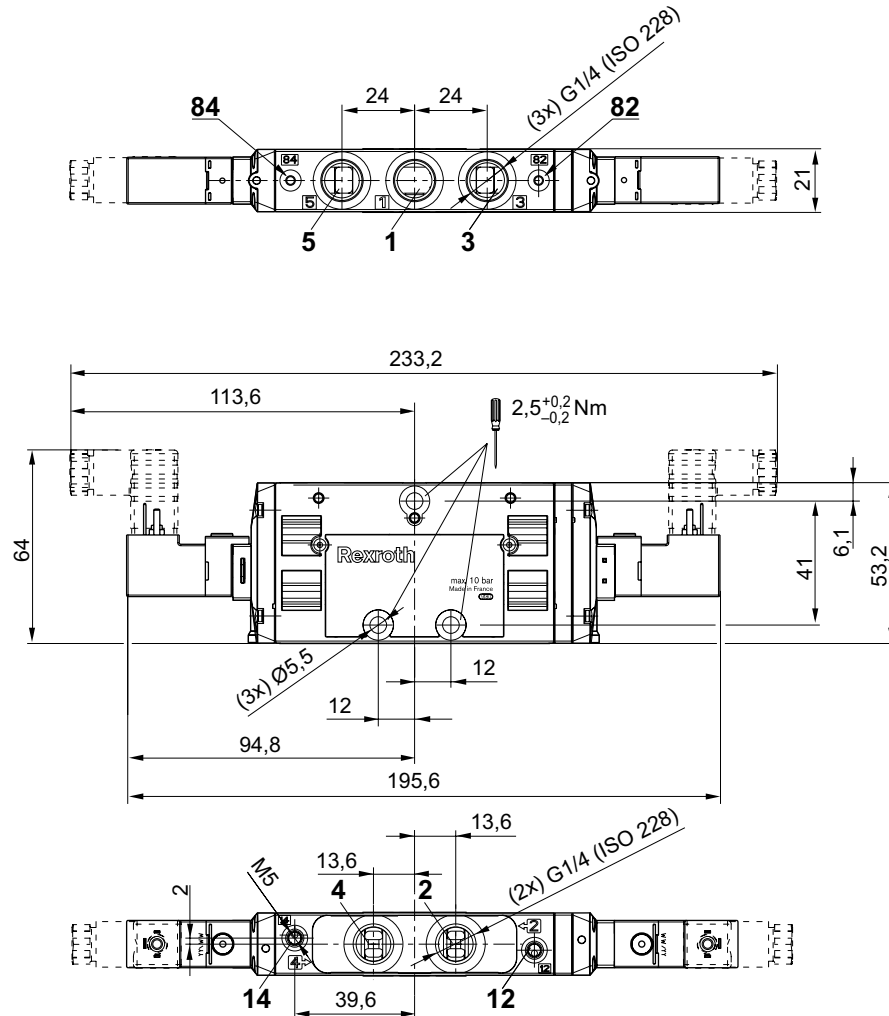
3) Basic valve without coil

Nominal flow Qn at 6 bar and Δp = 1 bar

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Dimensions

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