

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: with detent ► double solenoid



00137800

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
<ul style="list-style-type: none"> ■ 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		DC	b			
								Qn			
								[l/(s*bar)]	[l/min]		
		G 1/4	G 1/4	G 1/4	- M5	24 V -	0.31	5.9	1300	280 -	0820059001 R422103071
		G 1/4	G 1/4	G 1/4	M5 -	24 V -	0.31	5.9	1300	280 -	0820059051 R422103073

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: with detent ► double solenoid

	MO	Compressed air connection				Operating voltage	Flow conductance		Flow rate value	Nominal resistance	Part No.
		Input	Output	Exhaust	Pilot connection		DC	b			
								[l/(s*bar)]	[l/min]		
		G 1/4	G 1/4	G 1/4	- M5	24 V -	0.31	5.9	1300	280 -	0820059011 R422103075
		G 1/4	G 1/4	G 1/4	M5	24 V	0.31	5.9	1300	280	0820059061
		G 1/4	G 1/4	G 1/4	-	24 V	0.31	5.9	1300	280	0820059021
		G 1/4	G 1/4	G 1/4	M5	24 V	0.31	5.9	1300	280	0820059071

Part No.	Working pressure min./max.	Weight	Note
	[bar]	[kg]	
0820059001 R422103071	3 / 10 -0.9 / 10	0.278	1) 2); 3)
0820059051 R422103073	-0.9 / 10 3 / 10	0.278	2) 1); 3)
0820059011 R422103075	3 / 10 -0.9 / 10	0.278	1) 2); 3)
0820059061 0820059021	-0.9 / 10 3 / 10	0.278	2) 1)
0820059071	-0.9 / 10	0.278	2)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

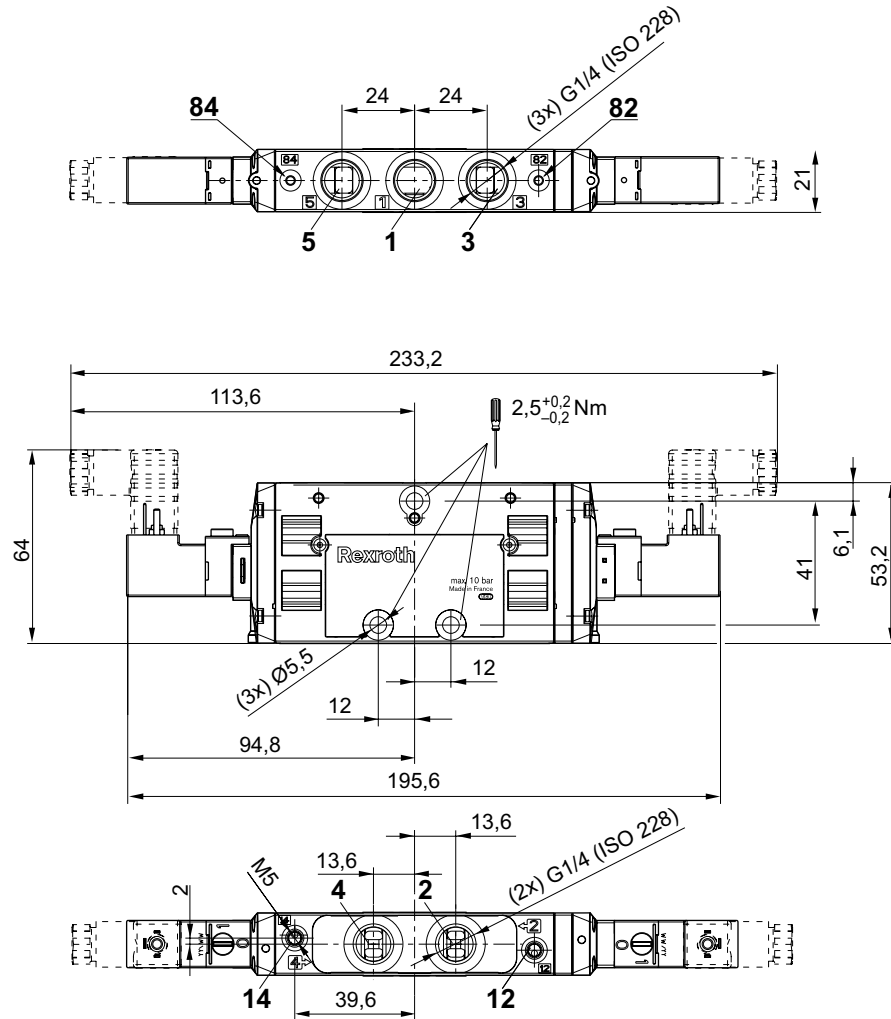
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

5/3-way valve, Series TC15

► $Q_n = 1300 \text{ l/min}$ ► pipe connection ► compressed air connection output: G 1/4 ► Electr. connection: Plug, ISO 15217, form C ► Manual override: with detent ► double solenoid

Dimensions



00111343_a