Directional valves ► Electrically operated

5/3-directional valve, Series TC08

► Qn = 700 l/min ► Pilot valve width: 15 mm ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► Manual override: without detent ► double solenoid

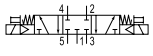
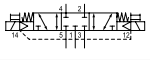
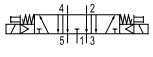
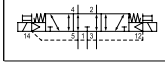
00137674

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
Degree of protection With connection	IP65
Duty cycle	100 %
Switch-on time	10 ms
Switch-off time	11 ms
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Weight	0.178 kg
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
Front plate	Polyamide, fiber-glass reinforced
Threaded bushing	Brass, nickel-plated; Die cast zinc, chrome-plated

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“.

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

	MO	Compressed air connection			Operational voltage	Power consumption	Flow conductance		Part No.
		Input	Output	Exhaust	DC	24 V DC	b	C	
						[W]		[l/(s*bar)]	
		G 1/8	G 1/8	G 1/8	24 V -	2 -	0.34	3	**0820061101** **R422103055**
		G 1/8	G 1/8	G 1/8	24 V -	2 -	0.34	3	**0820061151** R422103057
		G 1/8	G 1/8	G 1/8	24 V -	2 -	0.34	3	**0820061111** R422103059
		G 1/8	G 1/8	G 1/8	24 V	2	0.34	3	0820061161

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

5/3-directional valve, Series TC08

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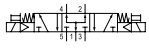
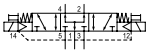
	MO	Compressed air connection			Operational voltage	Power consumption	Flow conductance		Part No.
		Input	Output	Exhaust	DC	24 V DC	b	C	
						[W]		[l/(s*bar)]	
		G 1/8	G 1/8	G 1/8	24 V	2	0.34	3	**0820061121**
		G 1/8	G 1/8	G 1/8	24 V	2	0.34	3	0820061171

Part No.	Flow rate value	Nominal resistance	Working pressure min./ max.	Note
	Qn			
	[l/min]		[bar]	
0820061101 **R422103055**	700	280 -	3 / 10	1) 1); 3)
0820061151 R422103057	700	280 -	-0.9 / 10	2) 2); 3)
0820061111 R422103059	700	280 -	3 / 10	1) 1); 3)
0820061161	700	280	-0.9 / 10	2)
0820061121	700	280	3 / 10	1)
0820061171	700	280	-0.9 / 10	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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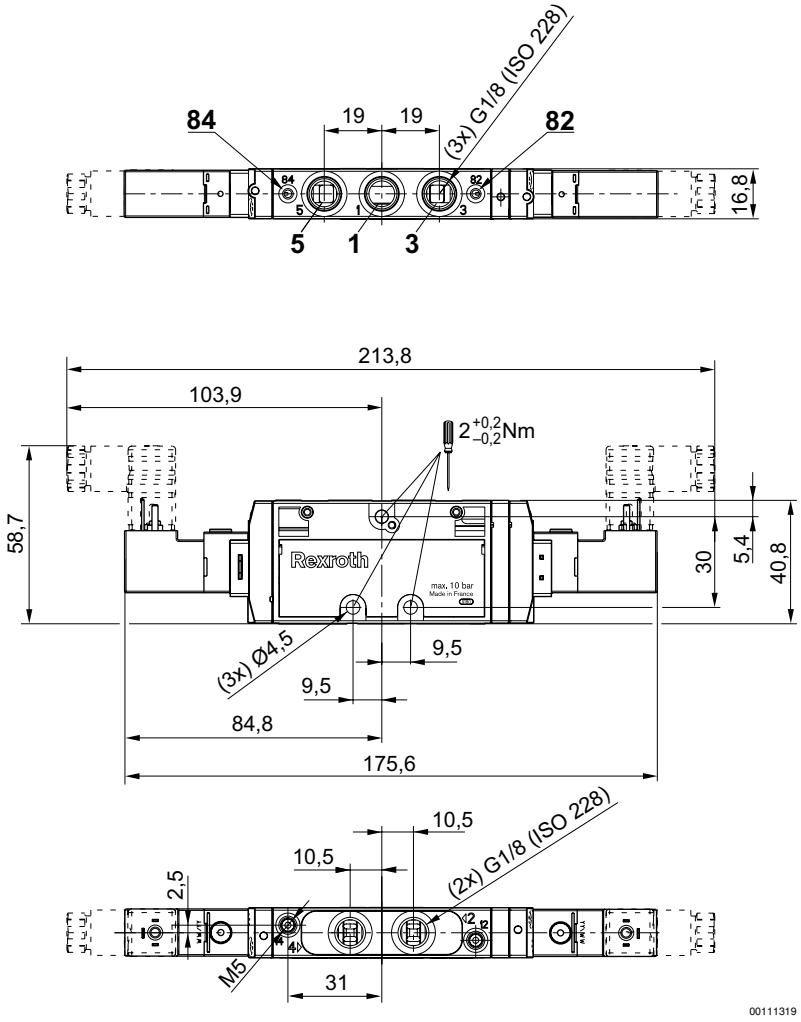
Dimensions