Directional valves → Electrically operated

5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid



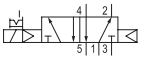
00120258

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.	See table below
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
Protection class according to EN 60529:2000 with electrical connector/plug	IP 65
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
mounting screw tightening torque	2 Nm
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Polyurethane
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“.

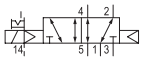
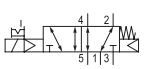
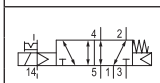
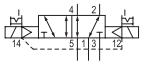
Operating voltage			Voltage tolerance			Power consumption	Switch-on power		Holding power	
DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
						W	VA	VA	VA	VA
-	24 V	24 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
24 V	-	-	-10% / +10%	-	-	2	-	-	-	-
-	110 V	110 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
-	230 V	230 V	-	-10% / +10%	-10% / +10%	-	2.2	2	1.6	1.4
12 V	-	-	-10% / +10%	-	-	2	-	-	-	-

	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	-	24 V	24 V	0.36	3.5	800	R422000092
					24 V	-	-				**0820060001**
					-	110 V	110 V				0820060002
					-	230 V	230 V				**0820060003**

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	MO	Compressed air connection			Operating voltage			Flow conductance		Flow rate value	Part No.
		Input	Output	Exhaust	DC	AC 50 Hz	AC 60 Hz	b	C	Qn	
									[l/(s*bar)]	[l/min]	
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.36	3.5	800	**0820060051**
					-	110 V	110 V				0820060052
					-	230 V	230 V				0820060053
		G 1/8	G 1/8	G 1/8	12 V	-	-	0.36	3.5	800	R422000481
					-	24 V	24 V				**R422000094**
					24 V	-	-				**0820060026**
					-	110 V	110 V				**0820060027**
					-	230 V	230 V				**0820060028**
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.36	3.5	800	**0820060076**
					-	110 V	110 V				0820060077
					-	230 V	230 V				0820060078
		G 1/8	G 1/8	G 1/8	12 V	-	-	0.36	3.5	800	R422000482
					-	24 V	24 V				**R422000096**
					24 V	-	-				**0820060501**
					-	110 V	110 V				**0820060502**
					-	230 V	230 V				**0820060503**
		G 1/8	G 1/8	G 1/8	24 V	-	-	0.36	3.5	800	**0820060551**
					-	110 V	110 V				0820060552
					-	230 V	230 V				0820060553

Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	[bar]	[bar]	[ms]	[ms]	[kg]	
R422000092 **0820060001** 0820060002 **0820060003**	2.5 / 10	2.5 / 10	17	22	0.14	1)
0820060051 0820060052 0820060053	-0.9 / 10	2.5 / 10	17	22	0.14	2)
R422000481 **R422000094** **0820060026** **0820060027** **0820060028**	3 / 10	3 / 10	12	16	0.14	1)
0820060076 0820060077 0820060078	-0.9 / 10	3 / 10	12	16	0.14	2)
R422000482 **R422000096** **0820060501** **0820060502** **0820060503**	2 / 10	2 / 10	9	9	0.172	1)

MO = Manual override
1) Pilot: internal
2) Pilot: external
Nominal flow Qn at 6 bar and Δp = 1 bar

Directional valves → Electrically operated

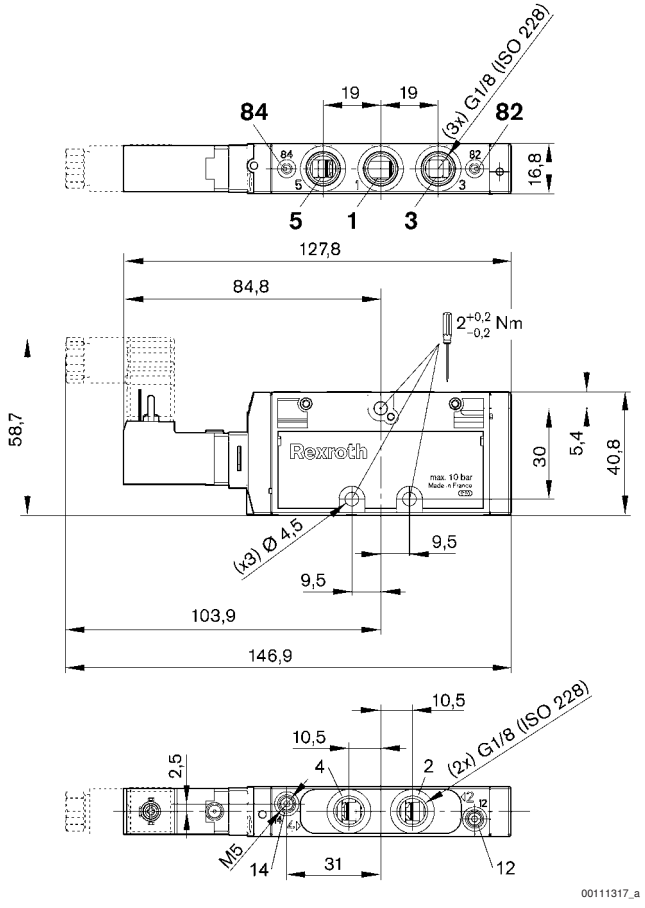
5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Part No.	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	[bar]	[bar]	[ms]	[ms]	[kg]	
0820060551 0820060552 0820060553	-0.9 / 10	2 / 10	9	9	0.172	2)

MO = Manual override
1) Pilot: internal
2) Pilot: external
Nominal flow Qn at 6 bar and Δp = 1 bar

Dimensions, single solenoid



5/2-way valve, Series TC08

► Qn = 800 l/min ► pipe connection ► compressed air connection output: G 1/8 ► Electr. connection: Plug, ISO 15217, form C ► manual override: with detent ► single solenoid, double solenoid

Dimensions, double solenoid

