5/2-way valve, Series TC15

▶ Qn = 1500 l/min ▶ pipe connection ▶ compressed air connection output: G 1/4 ▶ Electr. connection: Plug, M8, 3-pin ► manual override: with detent ► single solenoid, double solenoid



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 <i>µ</i> m
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Connector standard	EN 61076-2-101
Protection class according to EN 60529: with electrical connector/plug	IP 65
Status display LED	Yellow
Duty cycle	100 %
mounting screw tightening torque	2.5 Nm
Materials:	
Housing	Polyamide, fiber-glass rein
Seals	Acrylonitrile Butadiene Rul

Front plate

ber-glass reinforced Butadiene Rubber; Hydrogenated nitrile butadiene rubber 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%	2.2		

МО	Compressed air connection				Oper- ating volt- age		v conduc- tance	Flow rate value	Working pressure min./max.	Part No.
	Input	Output	Exhaust	Pilot connec- tion	DC	b	С	Qn		
							[l/(s*bar)]	[l/min]	[bar]	
-	G 1/4	G 1/4	G 1/4	-	24 V	0.33	6.8	1500	2.5 / 10	R422100986
-	G 1/4	G 1/4	G 1/4	M5	24 V	0.33	6.8	1500	-0.9 / 10	R422100987
-	G 1/4	G 1/4	G 1/4	-	24 V	0.33	6.8	1500	3 / 10	R422100988
-	G 1/4	G 1/4	G 1/4	M5	24 V	0.33	6.8	1500	-0.9 / 10	R422100989

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for detailed information Pneumatics catalog, online PDF, as of 2010-03-09, © Bosch Rexroth AG, subject to change

Directional valves → Electrically operated

5/2-way valve, Series TC15

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	МО	Compressed air connection				Oper- ating volt- age		v conduc- tance	Flow rate value	Working pressure min./max.	Part No.
		Input	Output	Exhaust	Pilot connec- tion	DC	b	С	Qn		
								[l/(s*bar)]	[l/min]	[bar]	
		G 1/4	G 1.	/4 G 1/4	-	24 V	0.33	6.8	1500	2 / 10	R422100990
		G 1/4	G 1	/4 G 1/4	M5	24 V	0.33	6.8	1500	-0.9 / 10	R422100991
Part No	0.	Control pressure min./max.		Switch-or	Switch-on time		Switch-off time		Weight		Note
		[bar] [m		[ms]			[ms]	[kg]			
R42210098	36		2.5 / 10 21			22		0.235		1)	
R42210098	37		2.5 / 10				22		0.235		2)
R42210098	38		3 / 10	12			35		0.235		1)
R42210098	39		3 / 10	10 12			35		0.235		2)
R42210099	90		2 / 10	10			10		0.265		1)
R42210099	91		2 / 10			10		0.265		2)	

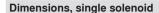
MO = Manual override

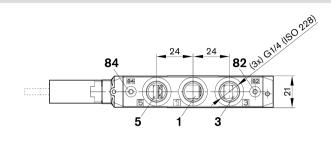
Pilot: internal
Pilot: external

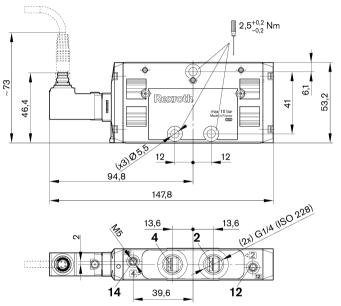
Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

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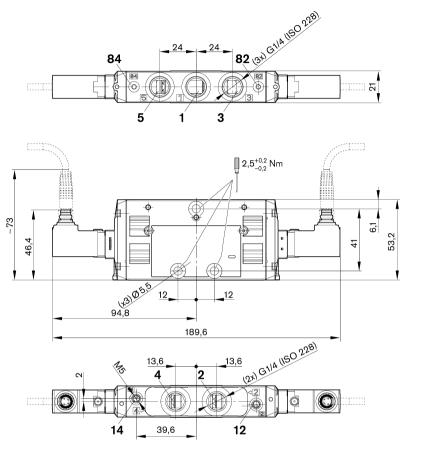
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Directional valves → Electrically operated

5/2-way valve, Series TC15

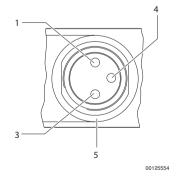
▶ Qn = 1500 l/min ▶ pipe connection ▶ compressed air connection output: G 1/4 ▶ Electr. connection: Plug, M8, 3-pin ▶ manual override: with detent ▶ single solenoid, double solenoid

Dimensions, double solenoid



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PIN assignment for electrical connector



Pin assignment: 1) Pin not assigned 3) 0 V 4) 24 V 5) LED

Note: Bi-polar protective circuit to prevent overvoltage