

Directional valves ▶ Electrically operated

5/2-directional valve, Series TC15

- ▶ Flow = 1.5 Cv ▶ Pilot valve width: 15 mm ▶ pipe connection ▶ Compressed air connection output: G 1/4
 ▶ Electr. connection: Plug, ISO 15217, form C ▶ Manual override: with detent ▶ single solenoid, double solenoid



00137795

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.	+14 °F / +122 °F
Medium temperature min./max.	+14 °F / +122 °F
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow Qn	1.5 Cv
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Generic emission standard in accordance with	EN 50081:1992
Mounting screw tightening torque	2.5 Nm
Weight	See table below
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Hydrogenated nitrile butadiene rubber
Front plate	Polyamide, fiber-glass reinforced

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 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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	Pilot connection	DC	DC	b	
							[W]		
		G 1/4	G 1/4	G 1/4	-	24 V	2	0.33	0820058001
		G 1/4	G 1/4	G 1/4	M5	24 V	2	0.33	0820058051
		G 1/4	G 1/4	G 1/4	-	24 V	2	0.33	0820058026 R422103063

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

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	MO	Compressed air connection				Operational voltage	Power consumption	Flow conductance	Part No.
		Input	Output	Exhaust	Pilot connection	DC	DC	b	
							[W]		
		G 1/4	G 1/4	G 1/4	M5	24 V -	2 -	0.33	0820058076 R422103065
		G 1/4	G 1/4	G 1/4	-	24 V -	2 -	0.33	0820058501 R422103067
		G 1/4	G 1/4	G 1/4	M5	24 V -	2 -	0.33	0820058551 R422103069

Part No.	Flow conductance	Nominal resistance	Working pressure min./max.	Control pressure min./max.	Switch-on time	Switch-off time	Weight	Note
	C							
	[l/(s*bar)]	[Ω]	[psi]	[psi]	[ms]	[ms]	[lbs]	
0820058001	6.8	280	37 / 145	37 / 145	21	22	0.518	1)
0820058051	6.8	280	-13 / 145	37 / 145	21	22	0.518	2)
0820058026 R422103063	6.8	280 -	44 / 145	44 / 145	12	35	0.518	1) 1); 3)
0820058076 R422103065	6.8	280 -	-13 / 145	44 / 145	12	35	0.518	2) 2); 3)
0820058501 R422103067	6.8	280 -	29 / 145	29 / 145	10	10	0.5798	1) 1); 3)
0820058551 R422103069	6.8	280 -	-13 / 145	29 / 145	10	10	0.5798	2) 2); 3)

MO = Manual override

1) Pilot: internal

2) Pilot: external

3) Basic valve without coil

push-in fitting: Brass, nickel-plated; Die cast zinc, chrome-plated

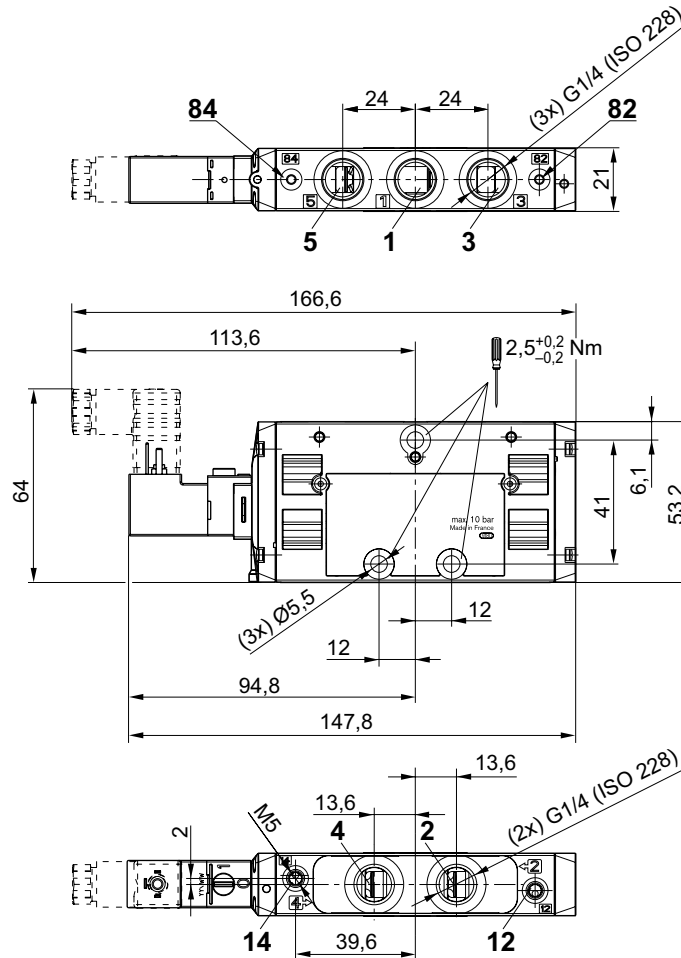
Nominal flow Qn at 87 psi and Δp = 14.5 psi

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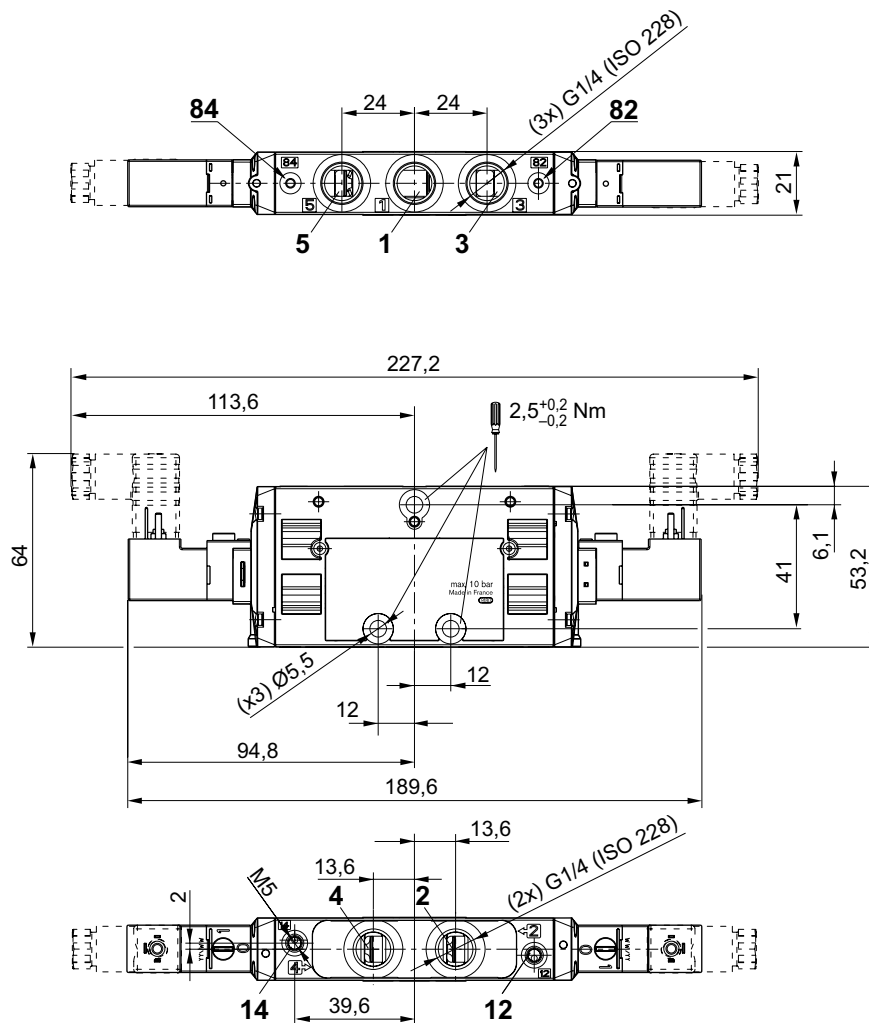
Dimensions, single solenoid



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Dimensions, double solenoid


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