

5/2-directional valve, Series TC15

- Operating voltage 24 V DC
- 5/2
- Qn = 1500 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, ISO 15217, form C
- Manual override : with detent
- single solenoid double solenoid
- Pilot : Internal External



Type	Spool valve, positive overlapping
Activation	Electrically
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	1500 l/min
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2,5 Nm
Weight	See table below
Comment	An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
0820058001			G 1/4	G 1/4
0820058051			G 1/4	G 1/4
0820058026			G 1/4	G 1/4
R422103063			G 1/4	G 1/4
0820058076			G 1/4	G 1/4
R422103065			G 1/4	G 1/4
0820058501			G 1/4	G 1/4
R422103067			G 1/4	G 1/4
0820058551			G 1/4	G 1/4
R422103069			G 1/4	G 1/4

Part No.	Compressed air connection	
	Exhaust	Pilot Input
0820058001	G 1/4	-
0820058051	G 1/4	M5
0820058026	G 1/4	-
R422103063	G 1/4	-
0820058076	G 1/4	M5
R422103065	G 1/4	M5
0820058501	G 1/4	-
R422103067	G 1/4	-
0820058551	G 1/4	M5
R422103069	G 1/4	M5

Part No.	Operational voltage	Voltage tolerance	Power consumption	Pilot
		DC	DC	
0820058001	24 V	-10% / +10%	2 W	Internal
0820058051	24 V	-10% / +10%	2 W	External
0820058026	24 V	-10% / +10%	2 W	Internal
R422103063	-	-	-	Internal
0820058076	24 V	-10% / +10%	2 W	External
R422103065	-	-	-	External
0820058501	24 V	-10% / +10%	2 W	Internal
R422103067	-	-	-	Internal
0820058551	24 V	-10% / +10%	2 W	External
R422103069	-	-	-	External

Part No.	Flow conductance	Flow conductance	Nominal resistance	Working pressure min./max.
	b	C-value		
0820058001	0,33	6,8 l/(s*bar)	280 Ω	2,5 ... 10 bar
0820058051	0,33	6,8 l/(s*bar)	280 Ω	-0,9 ... 10 bar
0820058026	0,33	6,8 l/(s*bar)	280 Ω	3 ... 10 bar
R422103063	0,33	6,8 l/(s*bar)	-	3 ... 10 bar
0820058076	0,33	6,8 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422103065	0,33	6,8 l/(s*bar)	-	-0,9 ... 10 bar

Part No.	Flow conductance	Flow conductance	Nominal resistance	Working pressure min./max.
	b	C-value		
0820058501	0,33	6,8 l/(s*bar)	280 Ω	2 ... 10 bar
R422103067	0,33	6,8 l/(s*bar)	-	2 ... 10 bar
0820058551	0,33	6,8 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422103069	0,33	6,8 l/(s*bar)	-	-0,9 ... 10 bar

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820058001	2,5 ... 10 bar	21 ms	22 ms
0820058051	2,5 ... 10 bar	21 ms	22 ms
0820058026	3 ... 10 bar	12 ms	35 ms
R422103063	3 ... 10 bar	12 ms	35 ms
0820058076	3 ... 10 bar	12 ms	35 ms
R422103065	3 ... 10 bar	12 ms	35 ms
0820058501	2 ... 10 bar	10 ms	10 ms
R422103067	2 ... 10 bar	10 ms	10 ms
0820058551	2 ... 10 bar	10 ms	10 ms
R422103069	2 ... 10 bar	10 ms	10 ms

Part No.	basic valve with electrical connector	Weight
0820058001	-	0,235 kg
0820058051	-	0,235 kg
0820058026	-	0,235 kg
R422103063	Basic valve without coil	0,235 kg
0820058076	-	0,235 kg
R422103065	Basic valve without coil	0,235 kg
0820058501	-	0,263 kg
R422103067	Basic valve without coil	0,263 kg
0820058551	-	0,263 kg
R422103069	Basic valve without coil	0,263 kg

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

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. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber
Front plate	Polyamide fiber-glass reinforced

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