



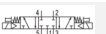
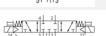
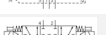
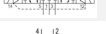
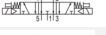
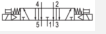
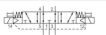
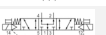
# 5/3-directional valve, Series TC15

- Operating voltage 24 V DC
- 5/3
- Qn = 1300 l/min
- Pilot valve width : 15 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent
- 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.	3 ... 10 bar
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/m <sup>3</sup>
Nominal flow Qn	1300 l/min
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	13 ms
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2,5 Nm
Weight	0,278 kg

## Technical data

Part No.		MO		Compressed air connection	
					Input
0820059101				closed center	G 1/4
R422103072				closed center	G 1/4
0820059151				closed center	G 1/4
R422103074				closed center	G 1/4
0820059111				exhausted center	G 1/4
R422103076				exhausted center	G 1/4
0820059161				exhausted center	G 1/4
0820059171				pressurized center	G 1/4
0820059121				pressurized center	G 1/4

Part No.	Compressed air connection	
	Output	Exhaust
0820059101	G 1/4	G 1/4
R422103072	G 1/4	G 1/4
0820059151	G 1/4	G 1/4
R422103074	G 1/4	G 1/4
0820059111	G 1/4	G 1/4
R422103076	G 1/4	G 1/4
0820059161	G 1/4	G 1/4
0820059171	G 1/4	G 1/4
0820059121	G 1/4	G 1/4

Part No.	Compressed air connection		Operational voltage	
	Pilot Input		DC	DC
0820059101	-		24 V	-10% / +10%
R422103072	-		-	-
0820059151	M5		24 V	-10% / +10%
R422103074	M5		-	-
0820059111	-		24 V	-10% / +10%
R422103076	-		-	-
0820059161	M5		24 V	-10% / +10%
0820059171	M5		24 V	-10% / +10%
0820059121	-		24 V	-10% / +10%

Part No.	Power consumption		Pilot	Flow conductance		Nominal resistance
	DC			b	C-value	
0820059101	2 W		Internal	0,31	5,9 l/(s*bar)	280 Ω
R422103072	-		Internal	0,31	5,9 l/(s*bar)	-
0820059151	2 W		External	0,31	5,9 l/(s*bar)	280 Ω
R422103074	-		External	0,31	5,9 l/(s*bar)	-
0820059111	2 W		Internal	0,31	5,9 l/(s*bar)	280 Ω
R422103076	-		Internal	0,31	5,9 l/(s*bar)	-
0820059161	2 W		External	0,31	5,9 l/(s*bar)	280 Ω
0820059171	2 W		External	0,31	5,9 l/(s*bar)	280 Ω
0820059121	2 W		Internal	0,31	5,9 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.	basic valve with electrical connector
0820059101	3 ... 10 bar	-
R422103072	3 ... 10 bar	Basic valve without coil
0820059151	-0,9 ... 10 bar	-
R422103074	-0,9 ... 10 bar	Basic valve without coil
0820059111	3 ... 10 bar	-
R422103076	3 ... 10 bar	Basic valve without coil
0820059161	-0,9 ... 10 bar	-
0820059171	-0,9 ... 10 bar	-
0820059121	3 ... 10 bar	-

Nominal flow Qn at 6 bar and  $\Delta p = 1$  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
Threaded bushing	Brass Die cast zinc, nickel-plated chrome-plated



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