

5/3-directional valve, Series TC08

- Operating voltage 24 V DC
- 5/3
- $Q_n = 700 \text{ l/min}$
- Pilot valve width : 15 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent
- Double solenoid
- Pilot : Internal External



Version	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 ³
Nominal flow Q_n	700 l/min
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	10 ms
Typ. switch-off time	11 ms
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2 Nm
Weight	0,178 kg

Technical data

Part No.		MO		Compressed air connection	
				Input	
0820061101			closed center	G 1/8	
R422103055			closed center	G 1/8	
0820061151			closed center	G 1/8	
R422103057			closed center	G 1/8	
0820061111			exhausted center	G 1/8	
R422103059			exhausted center	G 1/8	
0820061161			exhausted center	G 1/8	
0820061121			pressurized center	G 1/8	
0820061171			pressurized center	G 1/8	

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
0820061101	G 1/8	G 1/8
R422103055	G 1/8	G 1/8
0820061151	G 1/8	G 1/8
R422103057	G 1/8	G 1/8
0820061111	G 1/8	G 1/8
R422103059	G 1/8	G 1/8
0820061161	G 1/8	G 1/8
0820061121	G 1/8	G 1/8
0820061171	G 1/8	G 1/8

Part No.	Operational voltage	Voltage tolerance	Power consumption	Pilot
	DC	DC	DC	
0820061101	24 V	-10% / +10%	2 W	Internal
R422103055	-	-	-	Internal
0820061151	24 V	-10% / +10%	2 W	External
R422103057	-	-	-	External
0820061111	24 V	-10% / +10%	2 W	Internal
R422103059	-	-	-	Internal
0820061161	24 V	-10% / +10%	2 W	External
0820061121	24 V	-10% / +10%	2 W	Internal
0820061171	24 V	-10% / +10%	2 W	External

Part No.	Flow conductance	Flow conductance	Nominal resistance	Working pressure min./max.
	b	C-value		
0820061101	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422103055	0,34	3 l/(s*bar)	-	3 ... 10 bar
0820061151	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422103057	0,34	3 l/(s*bar)	-	-0,9 ... 10 bar
0820061111	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422103059	0,34	3 l/(s*bar)	-	3 ... 10 bar
0820061161	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
0820061121	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
0820061171	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar

Part No.	basic valve with electrical connector
0820061101	-
R422103055	Basic valve without coil
0820061151	-
R422103057	Basic valve without coil
0820061111	-
R422103059	Basic valve without coil
0820061161	-
0820061121	-
0820061171	-

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 Polyurethane
Front plate	Polyamide, fiber-glass reinforced
Threaded bushing	Brass Die cast zinc, nickel-plated chrome-plated

Dimensions

