

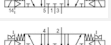
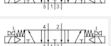
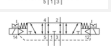
5/3-directional valve, Series TC08

- 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 : with 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 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	
0820061001			closed center	G 1/8	
R422103054			closed center	G 1/8	
0820061051			closed center	G 1/8	
R422103056			closed center	G 1/8	
0820061011			exhausted center	G 1/8	
R422103058			exhausted center	G 1/8	
0820061061			exhausted center	G 1/8	
0820061021			pressurized center	G 1/8	
0820061071			pressurized center	G 1/8	

Part No.	Compressed air connection		Compressed air connection	
	Output		Exhaust	
0820061001	G 1/8		G 1/8	
R422103054	G 1/8		G 1/8	
0820061051	G 1/8		G 1/8	
R422103056	G 1/8		G 1/8	
0820061011	G 1/8		G 1/8	
R422103058	G 1/8		G 1/8	
0820061061	G 1/8		G 1/8	
0820061021	G 1/8		G 1/8	
0820061071	G 1/8		G 1/8	

Part No.	Operational voltage	Voltage tolerance	Power consumption	Pilot
	DC	DC	DC	
0820061001	24 V	-10% / +10%	2 W	Internal
R422103054	-	-	-	Internal
0820061051	24 V	-10% / +10%	2 W	External
R422103056	-	-	-	External
0820061011	24 V	-10% / +10%	2 W	Internal
R422103058	-	-	-	Internal
0820061061	24 V	-10% / +10%	2 W	External
0820061021	24 V	-10% / +10%	2 W	Internal
0820061071	24 V	-10% / +10%	2 W	External

Part No.	Flow conductance	Flow conductance	Nominal resistance	Working pressure min./max.
	b	C-value		
0820061001	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422103054	0,34	3 l/(s*bar)	-	3 ... 10 bar
0820061051	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422103056	0,34	3 l/(s*bar)	-	-0,9 ... 10 bar
0820061011	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422103058	0,34	3 l/(s*bar)	-	3 ... 10 bar
0820061061	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
0820061021	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
0820061071	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar

Part No.	basic valve with electrical connector
0820061001	-
R422103054	Basic valve without coil
0820061051	-
R422103056	Basic valve without coil
0820061011	-
R422103058	Basic valve without coil
0820061061	-
0820061021	-
0820061071	-

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

Dimensions

