

5/2-directional valve, Series TC08

- Operating voltage 24 V DC
- Qn = 800 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent
- single solenoid 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.	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/m ³
Nominal flow Qn	800 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 Nm
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
0820060101			G 1/8	G 1/8
0820060151			G 1/8	G 1/8
0820060126			G 1/8	G 1/8
R422103047			G 1/8	G 1/8
0820060176			G 1/8	G 1/8
R422103049			G 1/8	G 1/8
0820060601			G 1/8	G 1/8
R422103051			G 1/8	G 1/8
0820060651			G 1/8	G 1/8
R422103053			G 1/8	G 1/8

Part No.	Compressed air connection	Operationalvoltage	Voltage tolerance
	Exhaust	DC	DC
0820060101	G 1/8	24 V	-10% / +10%
0820060151	G 1/8	24 V	-10% / +10%
0820060126	G 1/8	24 V	-10% / +10%

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Exhaust	DC	DC
R422103047	G 1/8	-	-
0820060176	G 1/8	24 V	-10% / +10%
R422103049	G 1/8	-	-
0820060601	G 1/8	24 V	-10% / +10%
R422103051	G 1/8	-	-
0820060651	G 1/8	24 V	-10% / +10%
R422103053	G 1/8	-	-

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
0820060101	2 W	internal	0,36	3,5 l/(s*bar)	280 Ω
0820060151	2 W	external	0,36	3,5 l/(s*bar)	280 Ω
0820060126	2 W	internal	0,36	3,5 l/(s*bar)	280 Ω
R422103047	-	internal	0,36	3,5 l/(s*bar)	-
0820060176	2 W	external	0,36	3,5 l/(s*bar)	280 Ω
R422103049	-	external	0,36	3,5 l/(s*bar)	-
0820060601	2 W	internal	0,36	3,5 l/(s*bar)	280 Ω
R422103051	-	internal	0,36	3,5 l/(s*bar)	-
0820060651	2 W	external	0,36	3,5 l/(s*bar)	280 Ω
R422103053	-	external	0,36	3,5 l/(s*bar)	-

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820060101	3 ... 10 bar	3 ... 10 bar	14 ms	18 ms
0820060151	-0,9 ... 10 bar	3 ... 10 bar	14 ms	18 ms
0820060126	3 ... 10 bar	3 ... 10 bar	14 ms	17 ms
R422103047	3 ... 10 bar	3 ... 10 bar	14 ms	17 ms
0820060176	-0,9 ... 10 bar	3 ... 10 bar	14 ms	17 ms
R422103049	-0,9 ... 10 bar	3 ... 10 bar	14 ms	17 ms
0820060601	2 ... 10 bar	2 ... 10 bar	10 ms	10 ms
R422103051	2 ... 10 bar	2 ... 10 bar	10 ms	10 ms
0820060651	-0,9 ... 10 bar	2 ... 10 bar	10 ms	10 ms
R422103053	-0,9 ... 10 bar	2 ... 10 bar	10 ms	10 ms

Part No.	basic valve with electrical connector	Weight
0820060101	-	0,14 kg
0820060151	-	0,14 kg
0820060126	-	0,14 kg
R422103047	Basic valve without coil	0,14 kg
0820060176	-	0,14 kg
R422103049	Basic valve without coil	0,14 kg
0820060601	-	0,172 kg
R422103051	Basic valve without coil	0,172 kg
0820060651	-	0,172 kg
R422103053	Basic valve without coil	0,172 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.

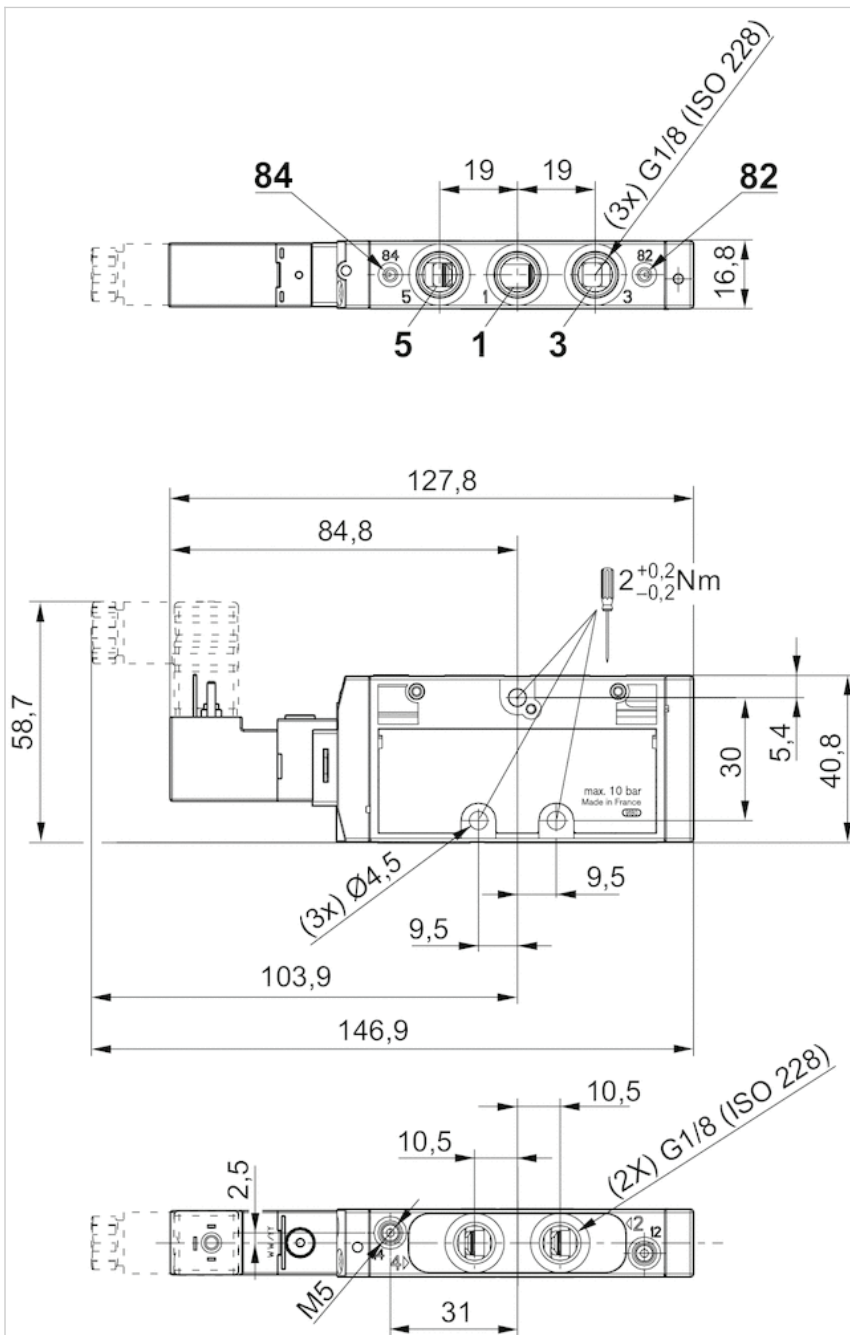
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

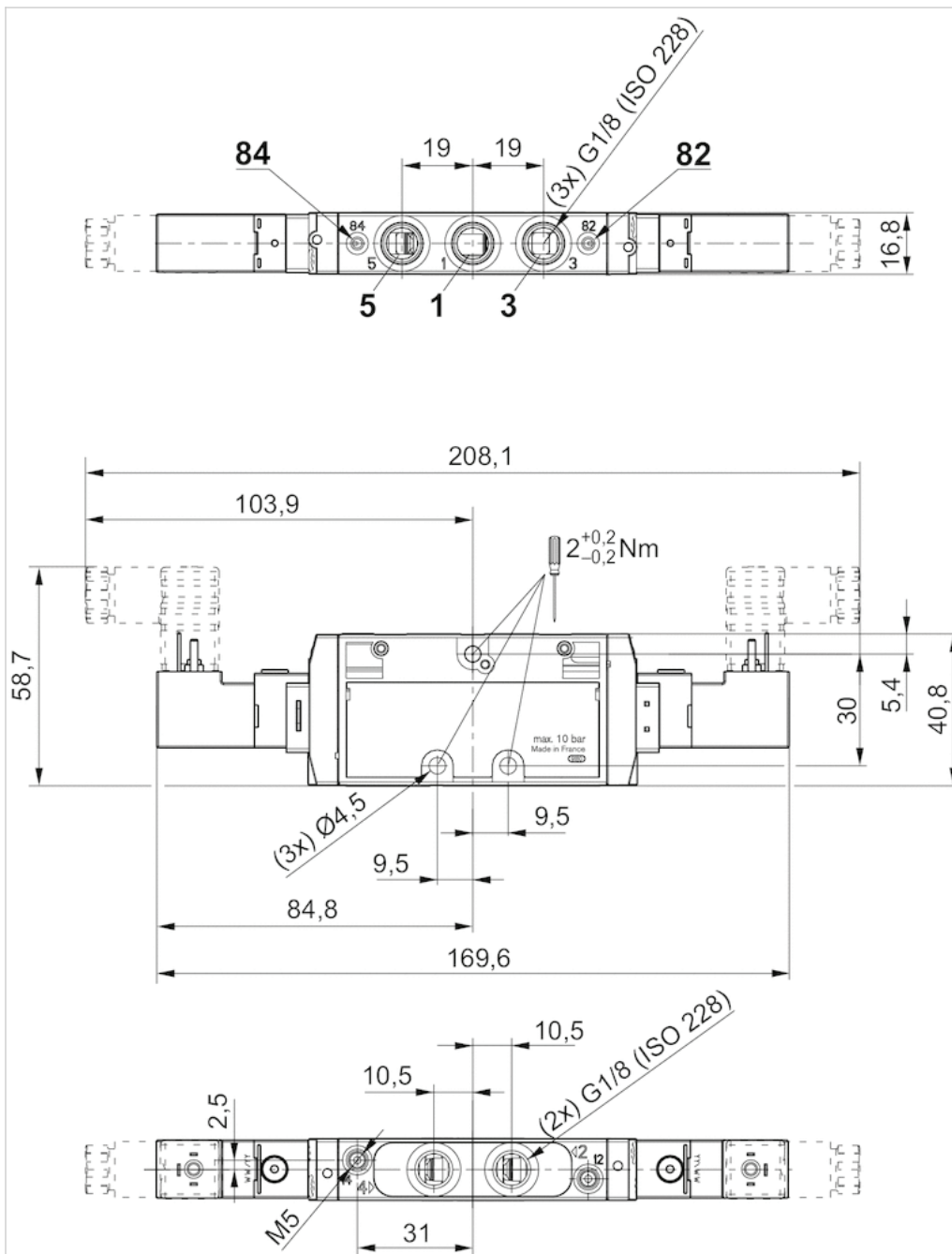
Material	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane
Front plate	Polyamide, fiber-glass reinforced
Threaded bushing	Brass Die cast zinc, nickel-plated chrome-plated

Dimensions

Dimensions single solenoid

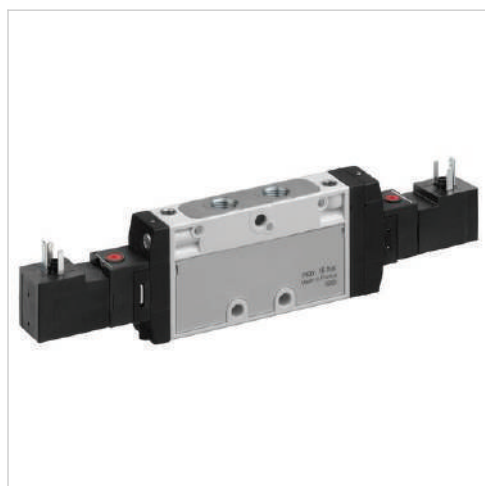


Dimensions Double solenoid



5/3-directional valve, Series TC08

- Operating voltage 24 V DC
- Qn = 700 l/min
- Pilot valve width : 15 mm
- 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/m³
Nominal flow Qn	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	Output
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.	Compressed air connection		Operational voltage	Voltage tolerance
	Exhaust		DC	DC
0820061101	G 1/8		24 V	-10% / +10%
R422103055	G 1/8		-	-

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Exhaust	DC	DC
0820061151	G 1/8	24 V	-10% / +10%
R422103057	G 1/8	-	-
0820061111	G 1/8	24 V	-10% / +10%
R422103059	G 1/8	-	-
0820061161	G 1/8	24 V	-10% / +10%
0820061121	G 1/8	24 V	-10% / +10%
0820061171	G 1/8	24 V	-10% / +10%

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
0820061101	2 W	internal	0,34	3 l/(s*bar)	280 Ω
R422103055	-	internal	0,34	3 l/(s*bar)	-
0820061151	2 W	external	0,34	3 l/(s*bar)	280 Ω
R422103057	-	external	0,34	3 l/(s*bar)	-
0820061111	2 W	internal	0,34	3 l/(s*bar)	280 Ω
R422103059	-	internal	0,34	3 l/(s*bar)	-
0820061161	2 W	external	0,34	3 l/(s*bar)	280 Ω
0820061121	2 W	internal	0,34	3 l/(s*bar)	280 Ω
0820061171	2 W	external	0,34	3 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.	basic valve with electrical connector
0820061101	3 ... 10 bar	-
R422103055	3 ... 10 bar	Basic valve without coil
0820061151	-0,9 ... 10 bar	-
R422103057	-0,9 ... 10 bar	Basic valve without coil
0820061111	3 ... 10 bar	-
R422103059	3 ... 10 bar	Basic valve without coil
0820061161	-0,9 ... 10 bar	-
0820061121	3 ... 10 bar	-
0820061171	-0,9 ... 10 bar	-

Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

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Front plate	Polyamide, fiber-glass reinforced

Material

Threaded bushing

Brass Die cast zinc, nickel-plated chrome-plated

Dimensions

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