

5/2-directional valve, Series TC08

- Operating voltage 24 V DC
- 5/2
- 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 : 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	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
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
0820060001			G 1/8	G 1/8
0820060051			G 1/8	G 1/8
0820060026			G 1/8	G 1/8
R422103046			G 1/8	G 1/8
0820060076			G 1/8	G 1/8
R422103048			G 1/8	G 1/8
0820060501			G 1/8	G 1/8
R422103050			G 1/8	G 1/8
0820060551			G 1/8	G 1/8
R422103052			G 1/8	G 1/8

Part No.	Compressed air connection		Operational voltage	Voltage tolerance
	Exhaust		DC	DC
0820060001	G 1/8		24 V	-10% / +10%
0820060051	G 1/8		24 V	-10% / +10%
0820060026	G 1/8		24 V	-10% / +10%
R422103046	G 1/8		-	-
0820060076	G 1/8		24 V	-10% / +10%
R422103048	G 1/8		-	-
0820060501	G 1/8		24 V	-10% / +10%
R422103050	G 1/8		-	-
0820060551	G 1/8		24 V	-10% / +10%
R422103052	G 1/8		-	-

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
0820060001	2 W	Internal	0,36	3,5 l/(s*bar)	280 Ω
0820060051	2 W	External	0,36	3,5 l/(s*bar)	280 Ω
0820060026	2 W	Internal	0,36	3,5 l/(s*bar)	280 Ω
R422103046	-	Internal	0,36	3,5 l/(s*bar)	-
0820060076	2 W	External	0,36	3,5 l/(s*bar)	280 Ω
R422103048	-	External	0,36	3,5 l/(s*bar)	-
0820060501	2 W	Internal	0,36	3,5 l/(s*bar)	280 Ω
R422103050	-	Internal	0,36	3,5 l/(s*bar)	-
0820060551	2 W	External	0,36	3,5 l/(s*bar)	280 Ω
R422103052	-	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
0820060001	3 ... 10 bar	3 ... 10 bar	14 ms	18 ms
0820060051	-0,9 ... 10 bar	3 ... 10 bar	14 ms	18 ms
0820060026	3 ... 10 bar	3 ... 10 bar	14 ms	17 ms
R422103046	3 ... 10 bar	3 ... 10 bar	14 ms	17 ms
0820060076	-0,9 ... 10 bar	3 ... 10 bar	14 ms	17 ms
R422103048	-0,9 ... 10 bar	3 ... 10 bar	14 ms	17 ms

Part No.	Working pressure min./max.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820060501	2 ... 10 bar	2 ... 10 bar	10 ms	10 ms
R422103050	2 ... 10 bar	2 ... 10 bar	10 ms	10 ms
0820060551	-0,9 ... 10 bar	2 ... 10 bar	10 ms	10 ms
R422103052	-0,9 ... 10 bar	2 ... 10 bar	10 ms	10 ms

Part No.	basic valve with electrical connector	Weight
0820060001	-	0,14 kg
0820060051	-	0,14 kg
0820060026	-	0,14 kg
R422103046	Basic valve without coil	0,14 kg
0820060076	-	0,14 kg
R422103048	Basic valve without coil	0,14 kg
0820060501	-	0,172 kg
R422103050	Basic valve without coil	0,172 kg
0820060551	-	0,172 kg
R422103052	Basic valve without coil	0,172 kg

Nominal flow Q_n 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.

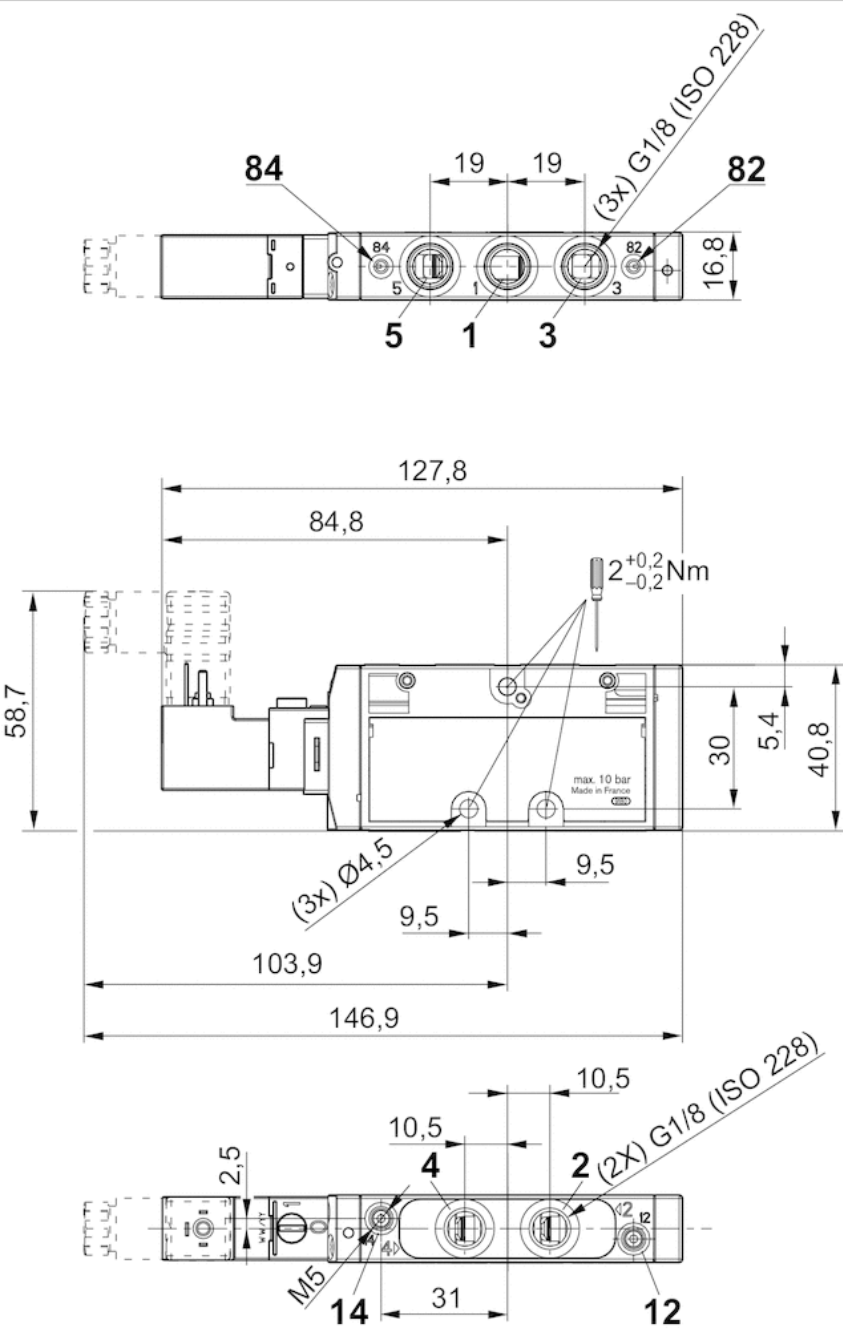
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

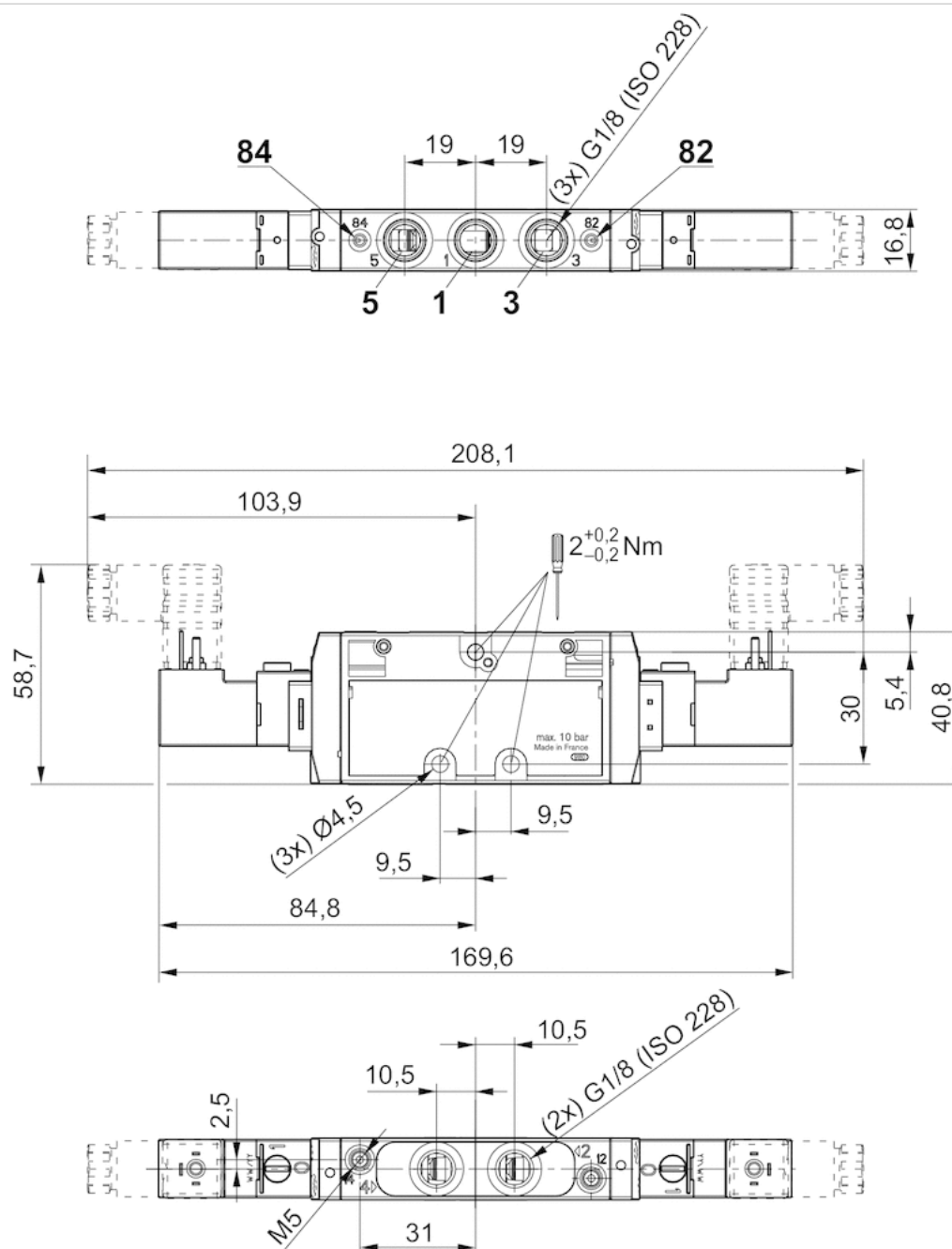
Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Polyurethane
Front plate	Polyamide fiber-glass reinforced
Threaded bushing	Brass Die cast zinc, nickel-plated chrome-plated

Dimensions

Dimensions, single solenoid



Dimensions, double solenoid



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An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and aging.

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