













2x3/2-directional valve, Series TC08

- Operating voltage 24 V DC
- 2x3/2
- Qn = 600 l/min
- Pilot valve width : 15 mm
- NC/NC NO/NO NC/NO
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, M8, 4-pin
- Manual override : with detent
- double solenoid
- With spring return
- Pilot : External, Internal



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External, Internal
Sealing principle	Soft sealing
Working pressure min./max.	See table below
Control pressure min./max.	2,5 ... 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	600 l/min
Compressed air connection	according to ISO 228-1
Connector standard	DIN EN 60947-5-2
Protection class acc. to DIN EN 61140	Class III
Electrically	
Protection class with connection	IP65
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	10 ms
Typ. switch-off time	14 ms
Generic immunity standard in accordance	EN 50082-2
with	
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2 Nm
Tightening torque tolerance	±0,2 mT
Weight	0,182 kg

Technical data

Part No.		MO		Compressed air connection
				Input
R422102043			NC/NC	G 1/8
R422102044			NO/NO	G 1/8
R422102045			NC/NO	G 1/8
R422102046			NC/NC	G 1/8
R422102047			NO/NO	G 1/8
R422102048			NC/NO	G 1/8

Part No.	Compressed air connection	Compressed air connection
	Output	Exhaust
R422102043	G 1/8	G 1/8
R422102044	G 1/8	G 1/8
R422102045	G 1/8	G 1/8
R422102046	G 1/8	G 1/8
R422102047	G 1/8	G 1/8
R422102048	G 1/8	G 1/8

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Input	DC	DC
R422102043	-	24 V	-10% / +10%
R422102044	-	24 V	-10% / +10%
R422102045	-	24 V	-10% / +10%
R422102046	M5	24 V	-10% / +10%
R422102047	M5	24 V	-10% / +10%
R422102048	M5	24 V	-10% / +10%

Part No.	Power consumption	Flow conductance	Flow conductance	Nominal resistance
	DC	b	C-value	
R422102043	2,2 W	0,27	2,8 l/(s*bar)	280 Ω
R422102044	2,2 W	0,27	2,8 l/(s*bar)	280 Ω
R422102045	2,2 W	0,27	2,8 l/(s*bar)	280 Ω
R422102046	2,2 W	0,27	2,8 l/(s*bar)	280 Ω
R422102047	2,2 W	0,27	2,8 l/(s*bar)	280 Ω
R422102048	2,2 W	0,27	2,8 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.
R422102043	3 ... 10 bar
R422102044	3 ... 10 bar
R422102045	3 ... 10 bar
R422102046	-0,9 ... 10 bar
R422102047	-0,9 ... 10 bar
R422102048	-0,9 ... 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.

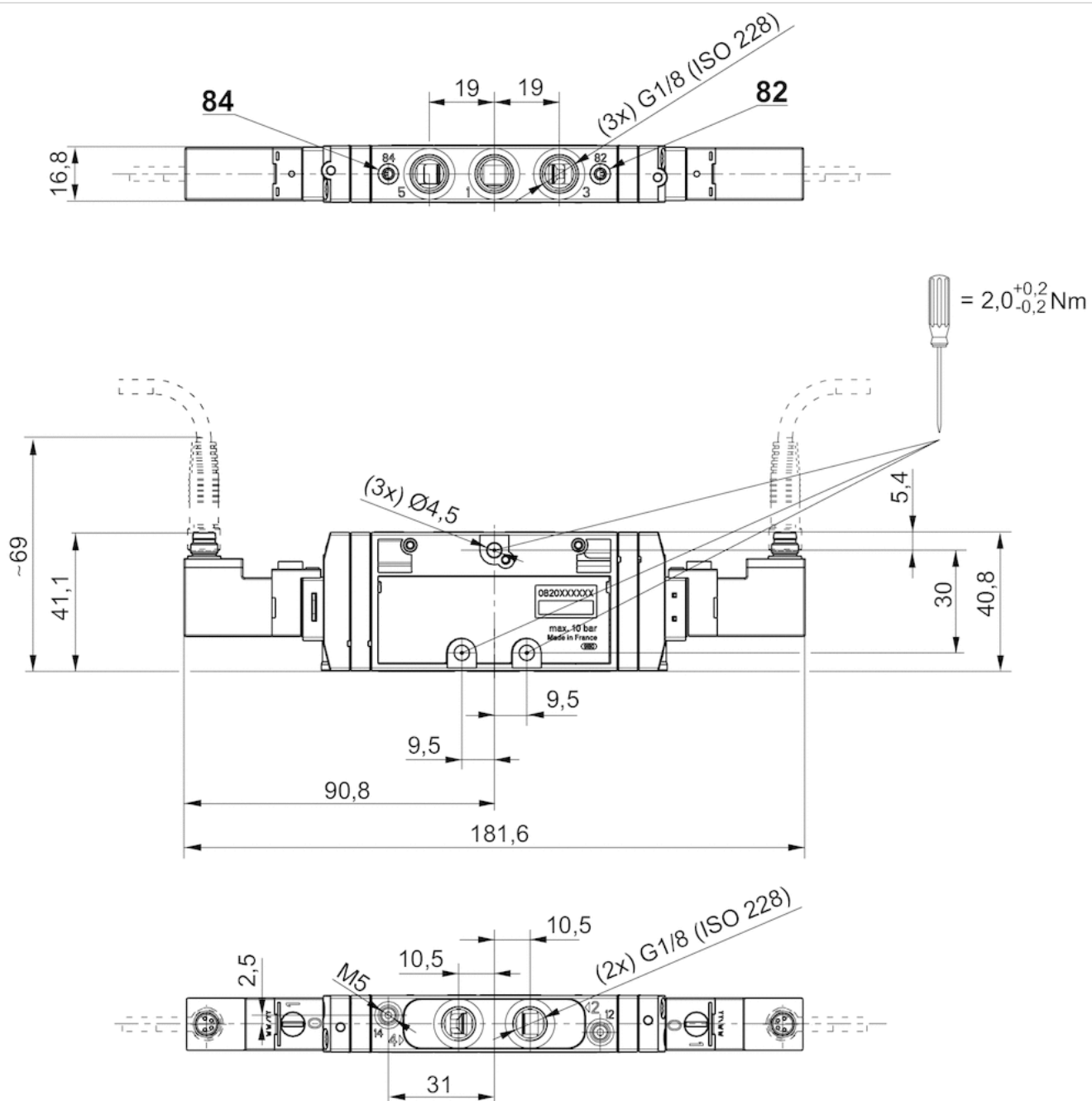
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

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

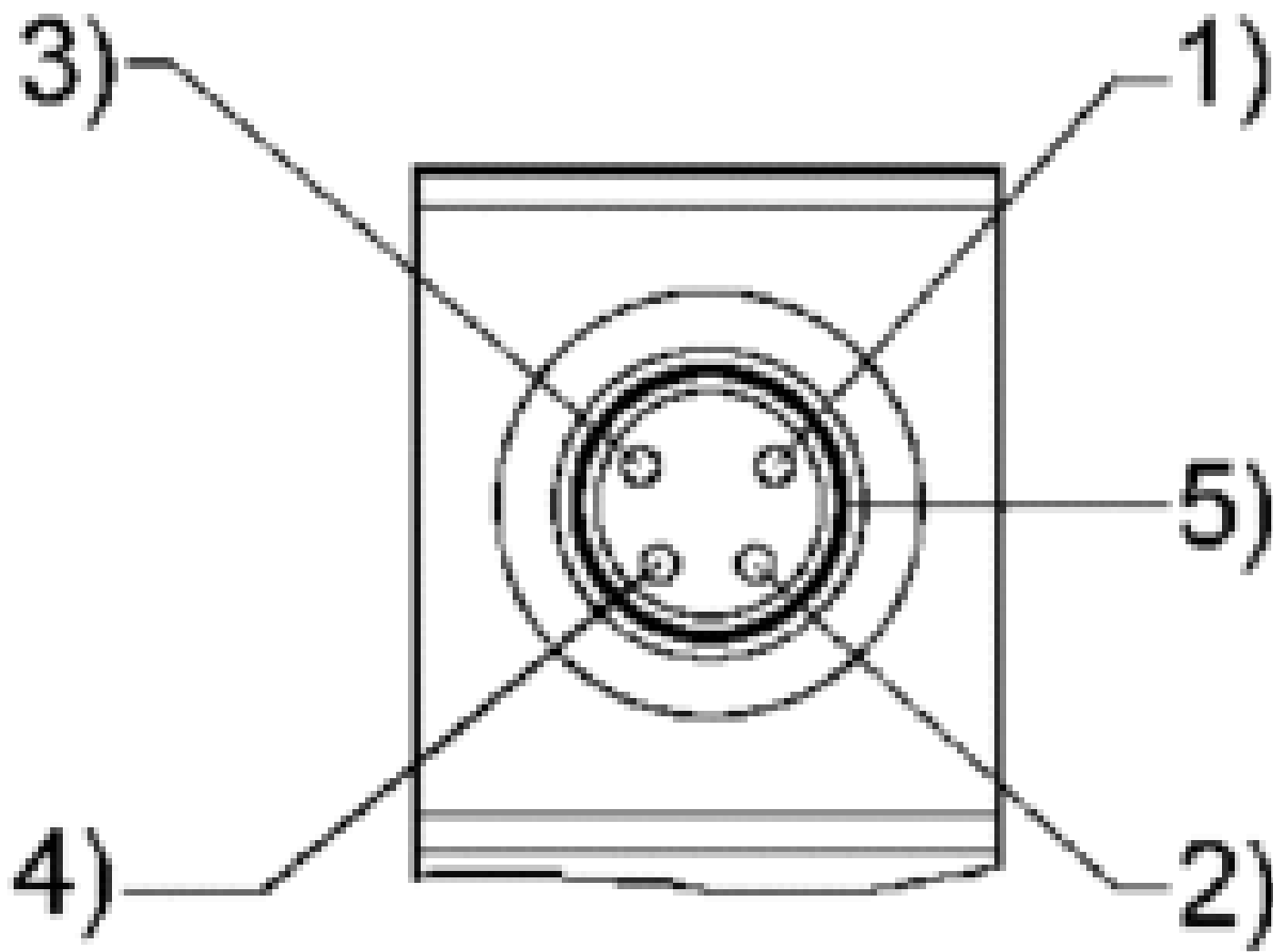
Dimensions

Dimensions



Pin assignments

PIN assignment and cable colors for valve plug connectors



PIN assignment:

- 1) PIN not assigned
- 2) PIN not assigned
- 3) 0 V
- 4) 24 V
- 5) LED

Cable colors

- 1) Brown
- 2) White
- 3) Blue
- 4) Black

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: [Emerson.com/Aventics](https://www.emerson.com/Aventics)

Your local contact: [Emerson.com/contactus](https://www.emerson.com/contactus)



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR_Automation

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.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. © 2020 Emerson Electric Co. All rights reserved.
2020-12



CONSIDER IT SOLVED™