



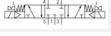



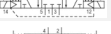

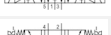



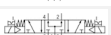

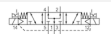



# 5/3-directional valve, Series TC15

- Operating voltage 24 V DC
- 5/3
- Qn = 1300 l/min
- Pilot valve width : 15 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/4
- 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/m³
Nominal flow Qn	1300 l/min
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	13 ms
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2,5 Nm
Weight	0,278 kg

## Technical data

Part No.		MO		Compressed air connection	
				Input	
0820059001			closed center	G 1/4	
R422103071			closed center	G 1/4	
0820059051			closed center	G 1/4	
R422103073			closed center	G 1/4	
0820059011			exhausted center	G 1/4	
R422103075			exhausted center	G 1/4	
0820059061			exhausted center	G 1/4	
0820059021			pressurized center	G 1/4	
0820059071			pressurized center	G 1/4	

Part No.	Compressed air connection		Compressed air connection	
	Output		Exhaust	
0820059001	G 1/4		G 1/4	
R422103071	G 1/4		G 1/4	
0820059051	G 1/4		G 1/4	
R422103073	G 1/4		G 1/4	
0820059011	G 1/4		G 1/4	
R422103075	G 1/4		G 1/4	
0820059061	G 1/4		G 1/4	
0820059021	G 1/4		G 1/4	
0820059071	G 1/4		G 1/4	

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Input	DC	DC
0820059001	-	24 V	-10% / +10%
R422103071	-	-	-
0820059051	M5	24 V	-10% / +10%
R422103073	M5	-	-
0820059011	-	24 V	-10% / +10%
R422103075	-	-	-
0820059061	M5	24 V	-10% / +10%
0820059021	-	24 V	-10% / +10%
0820059071	M5	24 V	-10% / +10%

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
0820059001	2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
R422103071	-	Internal	0,31	5,9 l/(s*bar)	-
0820059051	2 W	External	0,31	5,9 l/(s*bar)	280 Ω
R422103073	-	External	0,31	5,9 l/(s*bar)	-
0820059011	2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
R422103075	-	Internal	0,31	5,9 l/(s*bar)	-
0820059061	2 W	External	0,31	5,9 l/(s*bar)	280 Ω
0820059021	2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
0820059071	2 W	External	0,31	5,9 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.	basic valve with electrical connector
0820059001	3 ... 10 bar	-
R422103071	3 ... 10 bar	Basic valve without coil
0820059051	-0,9 ... 10 bar	-
R422103073	-0,9 ... 10 bar	Basic valve without coil
0820059011	3 ... 10 bar	-
R422103075	3 ... 10 bar	Basic valve without coil
0820059061	-0,9 ... 10 bar	-
0820059021	3 ... 10 bar	-
0820059071	-0,9 ... 10 bar	-

Nominal flow Q<sub>n</sub> 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.

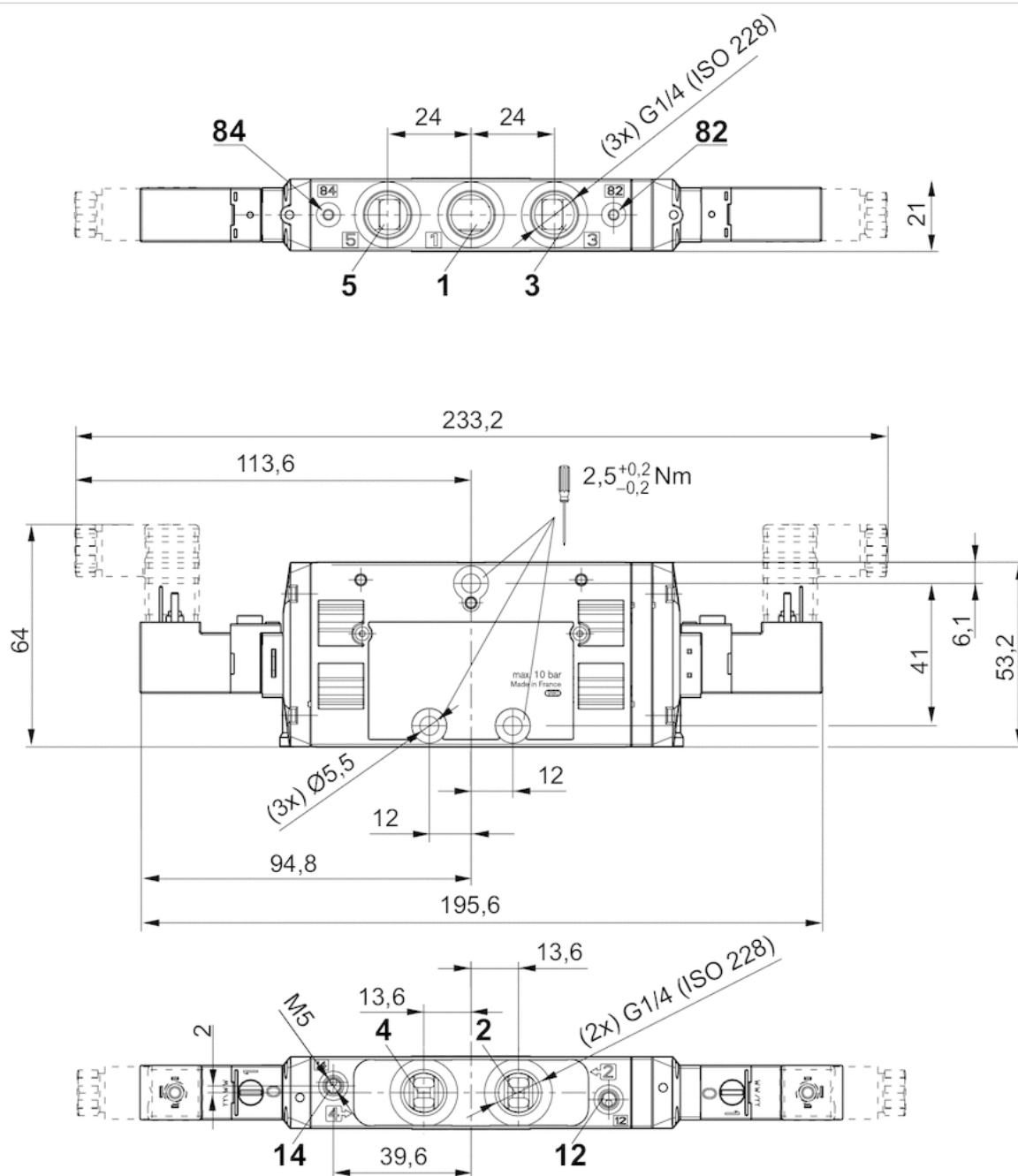
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

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

## Dimensions

## Dimensions



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



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

Your local contact: [Emerson.com/contactus](https://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™