## 2x3/2-directional valve, Series TC08, with detent, inch

R422102129

2024-08-06

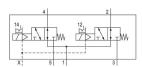
Series **TC08** 

- · Excellent ratio of installation space and flow rate
- · Large selection of electrical connections
- · Electrical or pneumatic operated
- · Long service life
- · Adjustable coil with four 90° positions

#### **AVENTICS Series TC08 Directional** valves

The AVENTICS Series TC08/TC15 includes a wide range of spool valves with housings made of high-performance polymers with robust and flexible metal inserts. It is designed for flow rate performances from 800 to 1500 I/min. These directional valves are easy to assemble, making them ideal for applications requiring the highest efficiency in limited spaces.





Technical data	
Industry	Industrial
Activation	Electrically
Valve type	Spool valve, posit
Switching principle	2x 3/2 NO/NO, wi
Valve function	NO/NO
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Plate connection Pipe connection
Manual override	with detent
Compressed air connection output	1/8-27 NPTF
Nominal flow Qn	600 l/min
Flow conductance b	0.27
Flow conductance C	2.8 l/(s*bar)
Min. working pressure	-0.9 bar
Max. working pressure	10 bar

itive overlapping ith spring return



1

## 2x3/2-directional valve, Series TC08, with detent, inch

Series TC08

Incn	2024-08-06
R422102129 Min. control pressure	2.5 bar
Max. control pressure	10 bar
Electrical connection type	Plug
Electrical connection size	ISO 15217, form C
Connector standard	ISO 15217
Protection class with connection	IP65
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %
Pilot	External
Coil width	15.6 mm
Pilot valve width	15 mm
Power consumption DC	2 W
Nominal resistance	280 Ω
Duty cycle	100 %
Typ. switch-on time	10 ms
Typ. switch-off time	14 ms
Generic emission standard in accordance with	EN 50081-2:1993
Generic immunity standard in accordance with	EN 50082-2
Blocking principle	Plate principle
Can be assembled into blocks	Can be assembled into blocks
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	0 mg/m³
Max. oil content of compressed air	5 mg/m³
Max. particle size	5 µm
Mounting screw tightening torque	2.5 Nm
Weight	0.166 kg

### Material Housing material

Polyamide fiber-glass reinforced



## 2x3/2-directional valve, Series TC08, with detent, inch

R422102129 Seal

Series **TC08** 2024-08-06

Acrylonitrile butadiene rubber
Polyurethane
Brass Die cast zinc
Polyamide fiber-glass reinforced
E

Part No.

R422102129

### **Technical information**

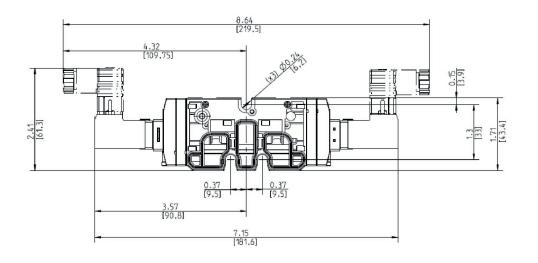
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

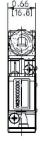
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

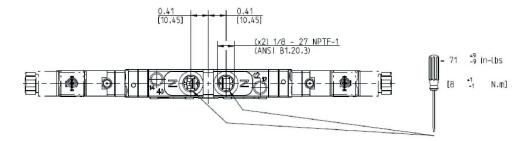
The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

## Dimensions





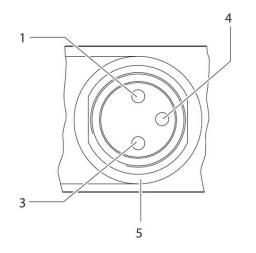




# 2x3/2-directional valve, Series TC08, with detent, inch

Series TC08 2024-08-06

R422102129 PIN assignment and cable colors for valve plug connectors



PIN assignment: 1) PIN not assigned 3) 0 V 4) 24 V 5) LED Cable color 1) Brown 3) Blue 4) Black Note: Bi-polar protective circuit to prevent overvoltage

