













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

- Operating voltage 24 V DC
- Qn = 600 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : 1/8-27 NPTF
- Electrical connection : Plug, ISO 15217, form C
- Manual override : with detent
- Double solenoid
- With spring return
- 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.	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/m <sup>3</sup>
Nominal flow Qn	600 l/min
Compressed air connection	according to ANSI B1.20.3
Connector standard	ISO 15217
Protection class with connection	IP65
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
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2 Nm
Tightening torque tolerance	±0,2 mT
Weight	0,181 kg

## Technical data

Part No.			MO	Compressed air connection	
				Input	
R422102101		NC/NC		1/8-27 NPTF	
R422102105		NO/NO		1/8-27 NPTF	
R422102109		NC/NO		1/8-27 NPTF	
R422102113		NC/NC		1/8-27 NPTF	
R422102117		NO/NO		1/8-27 NPTF	
R422102121		NC/NO		1/8-27 NPTF	

Part No.	Compressed air connection	
	Output	Exhaust
R422102101	1/8-27 NPTF	1/8-27 NPTF
R422102105	1/8-27 NPTF	1/8-27 NPTF
R422102109	1/8-27 NPTF	1/8-27 NPTF
R422102113	1/8-27 NPTF	1/8-27 NPTF
R422102117	1/8-27 NPTF	1/8-27 NPTF
R422102121	1/8-27 NPTF	1/8-27 NPTF

Part No.	Compressed air connection		Operational voltage	
	Pilot Input		DC	Voltage tolerance
R422102101	-		24 V	-10% / +10%
R422102105	-		24 V	-10% / +10%
R422102109	-		24 V	-10% / +10%
R422102113	M5		24 V	-10% / +10%
R422102117	M5		24 V	-10% / +10%
R422102121	M5		24 V	-10% / +10%

Part No.	Power consumption		Pilot	Flow conductance		Nominal resistance
	DC			b	C-value	
R422102101	2 W		internal	0,27	2,8 l/(s*bar)	280 Ω
R422102105	2 W		internal	0,27	2,8 l/(s*bar)	280 Ω
R422102109	2 W		internal	0,27	2,8 l/(s*bar)	280 Ω
R422102113	2 W		external	0,27	2,8 l/(s*bar)	280 Ω
R422102117	2 W		external	0,27	2,8 l/(s*bar)	280 Ω
R422102121	2 W		external	0,27	2,8 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.
R422102101	3 ... 10 bar
R422102105	3 ... 10 bar
R422102109	3 ... 10 bar
R422102113	-0,9 ... 10 bar
R422102117	-0,9 ... 10 bar
R422102121	-0,9 ... 10 bar

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override



## Technical information

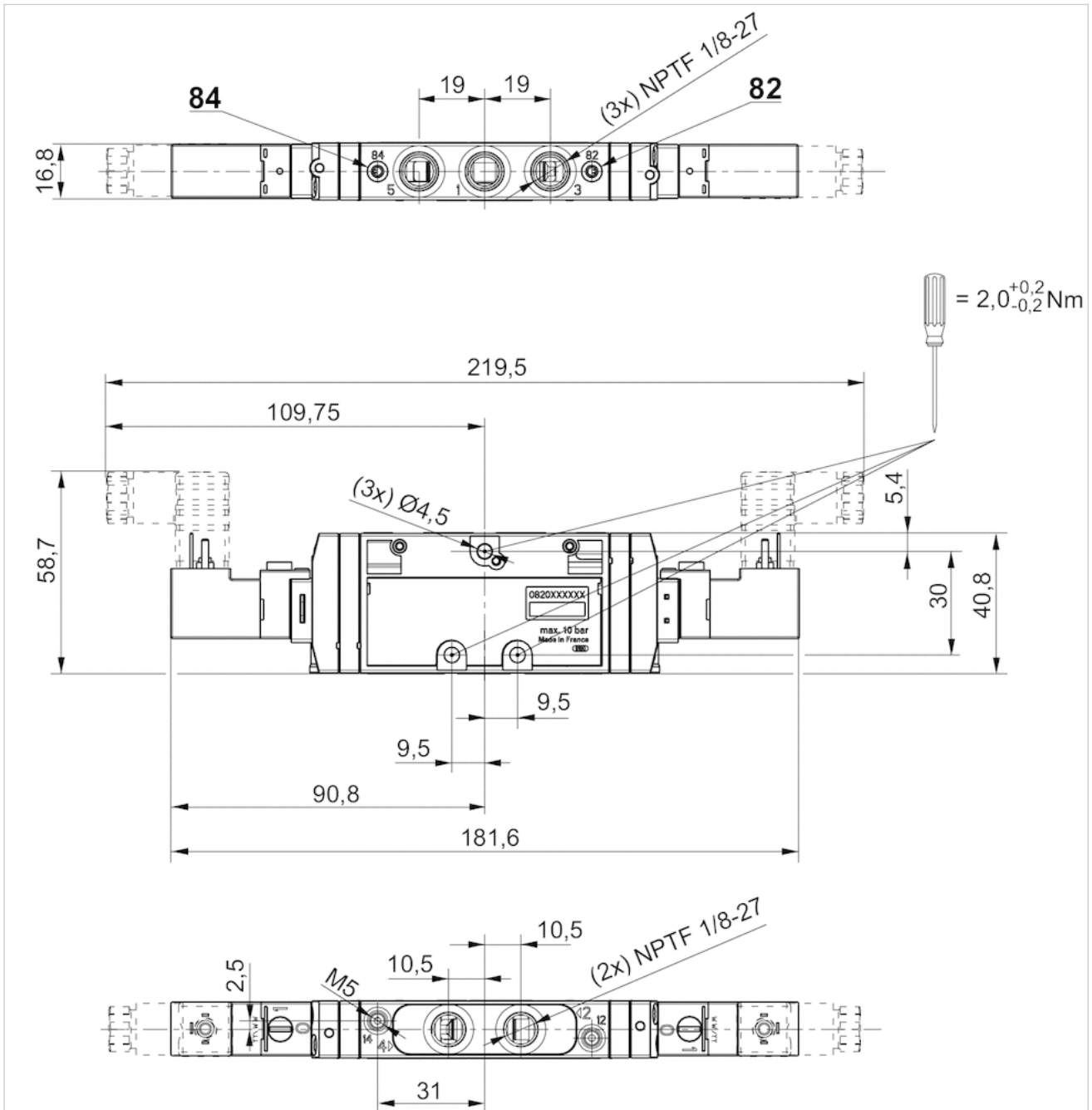
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
 The oil content of compressed air must remain constant during the life cycle.  
 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 in mm



Dimensions in inches

