



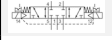

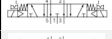

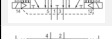

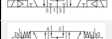



5/3-directional valve, Series TC15

- Operating voltage 24 V DC
- Qn = 1300 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : 1/4 - 18 NPTF
- Electrical connection : Plug, ISO 15217, form C
- Manual override : with detent
- Double solenoid
- 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.	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/m ³
Nominal flow Qn	1300 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	12 ms
Typ. switch-off time	13 ms
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2,5 Nm
Weight	0,309 kg

Technical data

Part No.		MO	Compressed air connection	
			Input	Output
R422101273			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101277			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101281			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101285			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101289			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101293			1/4 - 18 NPTF	1/4 - 18 NPTF

Part No.	Compressed air connection		Operational voltage	Voltage tolerance
	Exhaust			
R422101273	1/4 - 18 NPTF		24 V	-10% / +10%
R422101277	1/4 - 18 NPTF		24 V	-10% / +10%
R422101281	1/4 - 18 NPTF		24 V	-10% / +10%
R422101285	1/4 - 18 NPTF		24 V	-10% / +10%

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Exhaust	DC	DC
R422101289	1/4 - 18 NPTF	24 V	-10% / +10%
R422101293	1/4 - 18 NPTF	24 V	-10% / +10%

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
R422101273	2 W	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101277	2 W	external	0,31	5,9 l/(s*bar)	185 Ω
R422101281	2 W	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101285	2 W	external	0,31	5,9 l/(s*bar)	185 Ω
R422101289	2 W	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101293	2 W	external	0,31	5,9 l/(s*bar)	185 Ω

Part No.	Working pressure min./max.
R422101273	3 ... 10 bar
R422101277	-0,9 ... 10 bar
R422101281	3 ... 10 bar
R422101285	-0,9 ... 10 bar
R422101289	3 ... 10 bar
R422101293	-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.

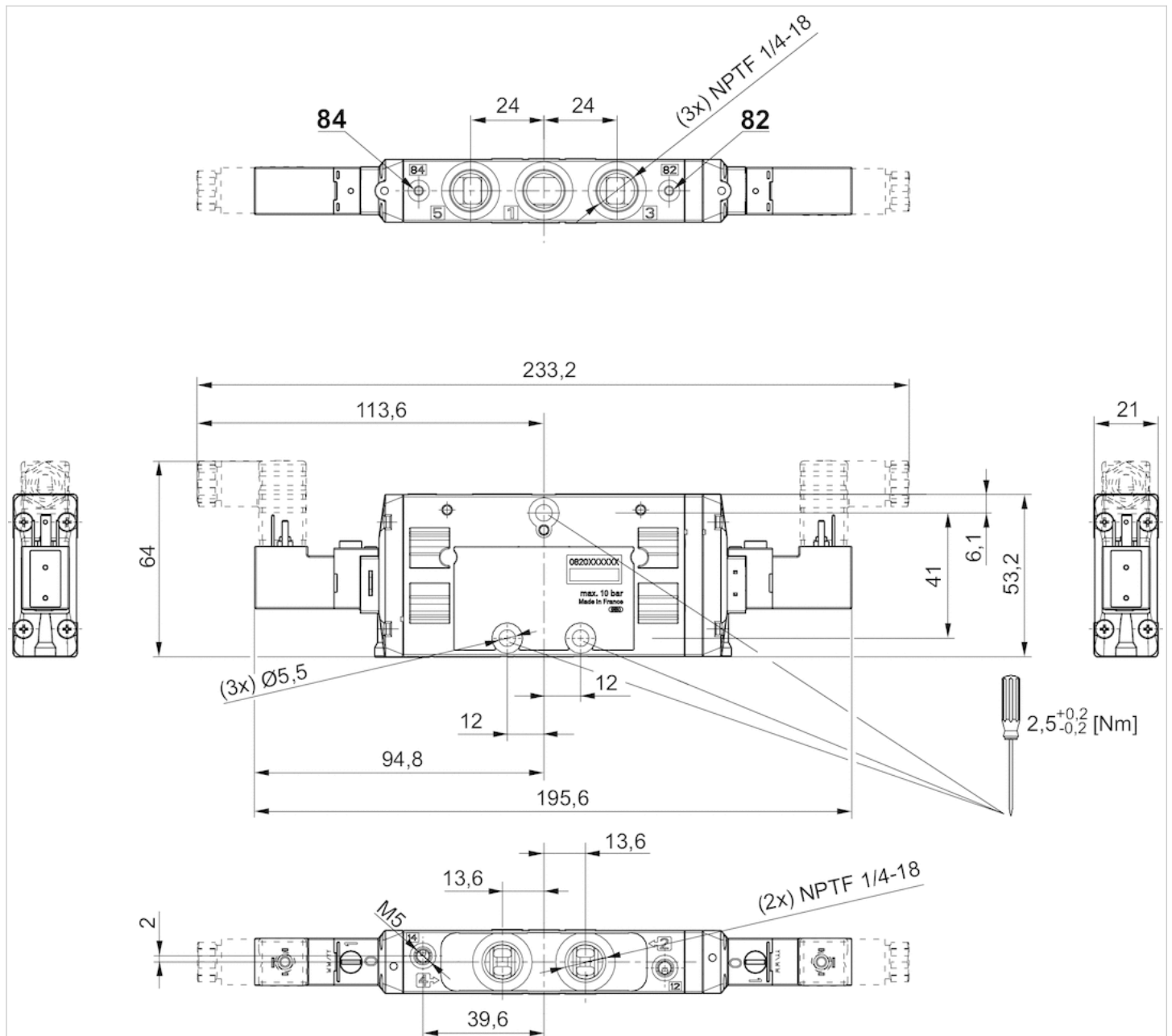
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions in mm



Dimensions in inches

