













# 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, M8, 4-pin
- Manual override : without 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	DIN EN 60947-5-2
Protection class acc. to DIN EN 61140 Electrically	Class III
Protection class with connection	IP65
LED status display	Yellow
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	0,279 kg

## Technical data

Part No.		MO		Compressed air connection	
				Input	
0820059301			closed center	G 1/4	
0820059351			closed center	G 1/4	
0820059311			exhausted center	G 1/4	
0820059361			exhausted center	G 1/4	
0820059321			pressurized center	G 1/4	
0820059371			pressurized center	G 1/4	

Part No.	Compressed air connection		Compressed air connection	
	Output		Exhaust	
0820059301	G 1/4		G 1/4	
0820059351	G 1/4		G 1/4	
0820059311	G 1/4		G 1/4	
0820059361	G 1/4		G 1/4	
0820059321	G 1/4		G 1/4	
0820059371	G 1/4		G 1/4	

Part No.	Compressed air connection	Operational voltage	Voltage tolerance
	Pilot Input	DC	DC
0820059301	-	24 V	-10% / +10%
0820059351	M5	24 V	-10% / +10%
0820059311	-	24 V	-10% / +10%
0820059361	M5	24 V	-10% / +10%
0820059321	-	24 V	-10% / +10%
0820059371	M5	24 V	-10% / +10%

Part No.	Power consumption	Pilot	Flow conductance	Flow conductance	Nominal resistance
	DC		b	C-value	
0820059301	2,2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
0820059351	2,2 W	External	0,31	5,9 l/(s*bar)	280 Ω
0820059311	2,2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
0820059361	2,2 W	External	0,31	5,9 l/(s*bar)	280 Ω
0820059321	2,2 W	Internal	0,31	5,9 l/(s*bar)	280 Ω
0820059371	2,2 W	External	0,31	5,9 l/(s*bar)	280 Ω

Part No.	Working pressure min./max.
0820059301	3 ... 10 bar
0820059351	-0,9 ... 10 bar
0820059311	3 ... 10 bar
0820059361	-0,9 ... 10 bar
0820059321	3 ... 10 bar
0820059371	-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.

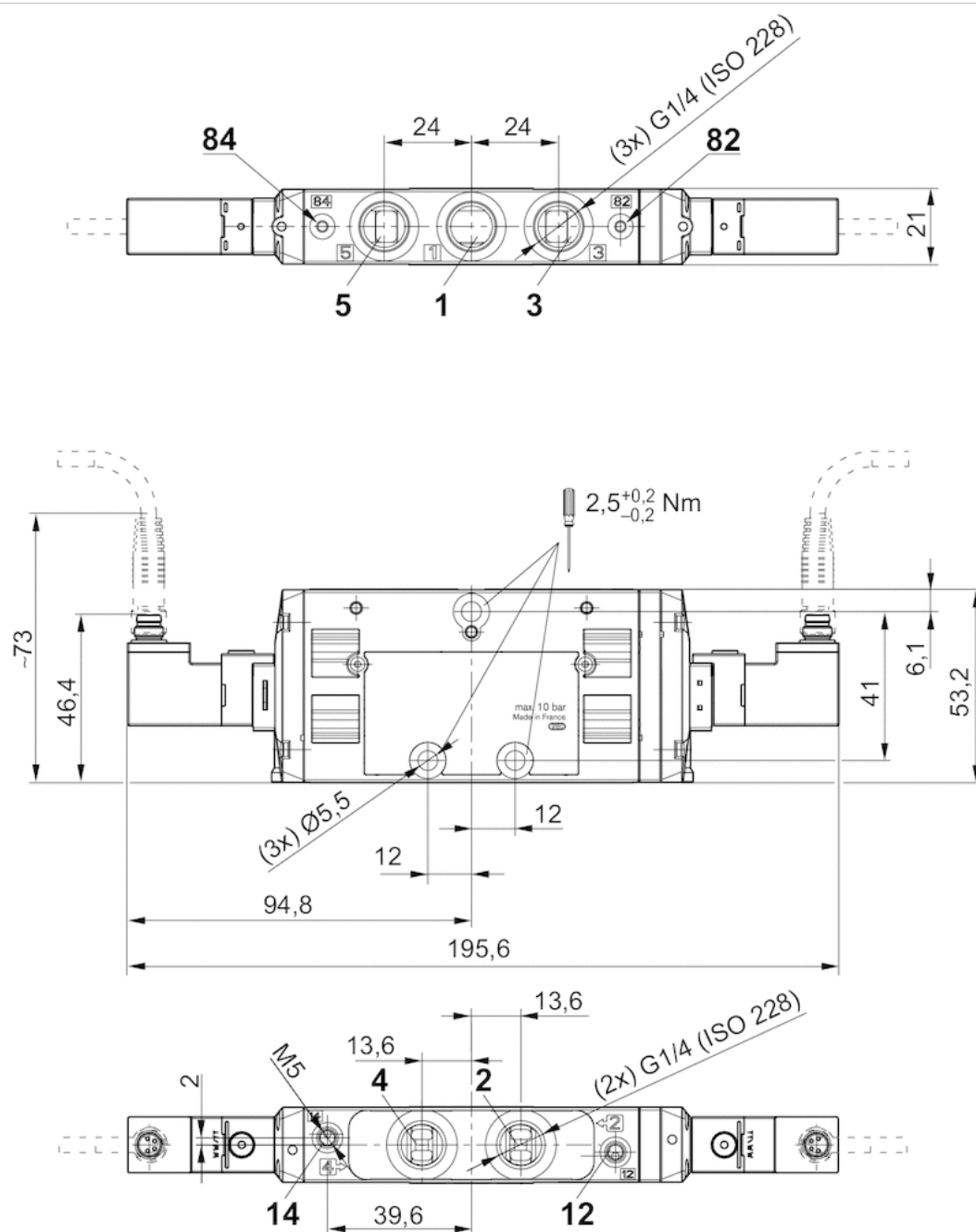
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

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

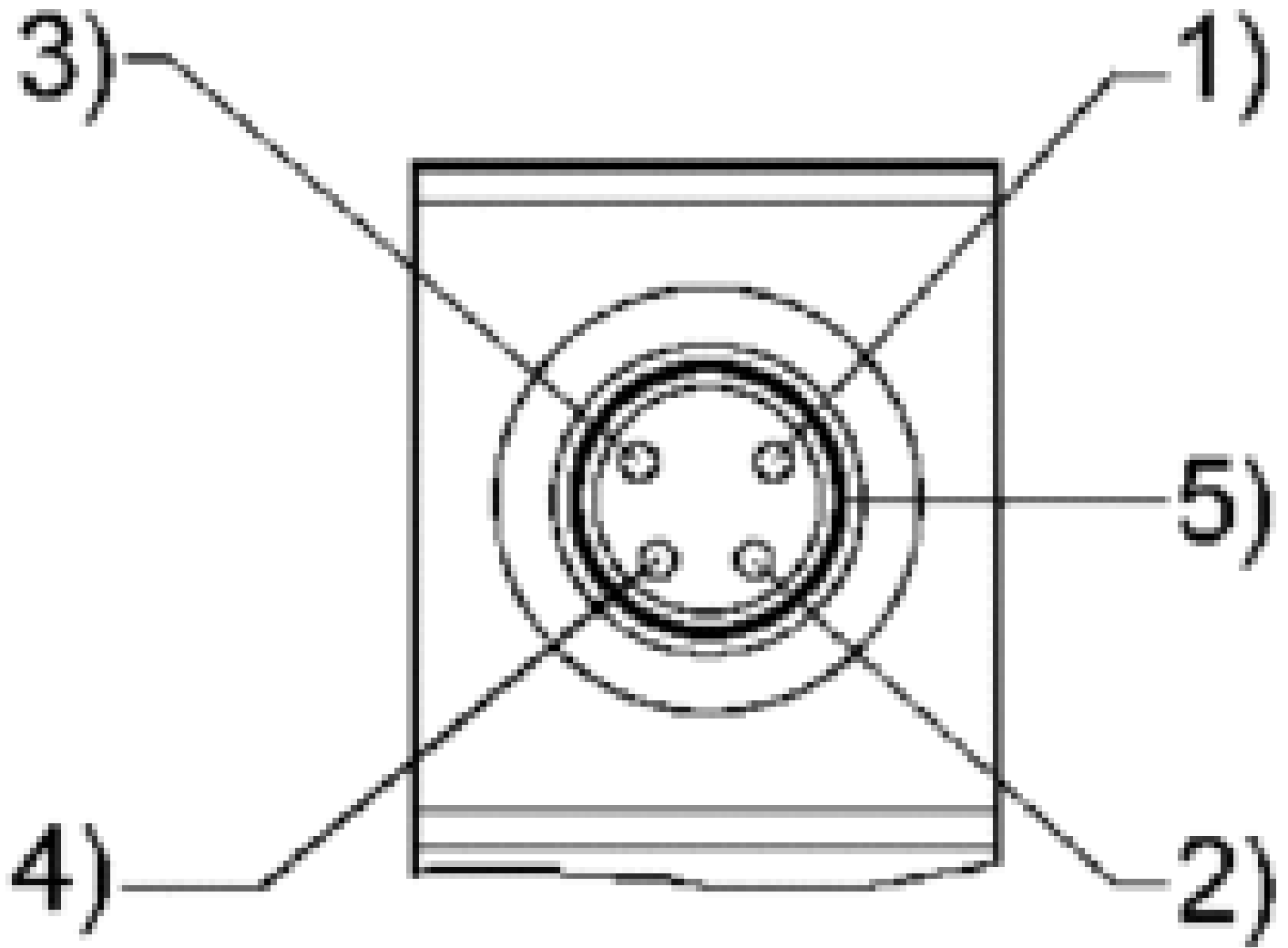
## Dimensions

## Dimensions



## 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

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2020-12



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