

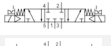
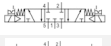

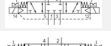





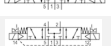



5/3-directional valve, Series TC08

- Operating voltage 24 V DC
- 5/3
- Qn = 700 l/min
- Pilot valve width : 15 mm
- closed center exhausted center pressurized center
- Pipe connection
- Compressed air connection output : G 1/8
- Electrical connection : Plug, M8, 3-pin
- 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/m ³
Nominal flow Qn	700 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	10 ms
Typ. switch-off time	11 ms
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2 Nm
Weight	0,178 kg

Technical data

Part No.		MO		Compressed air connection	
				Input	
R422100974			closed center		G 1/8
R422100975			closed center		G 1/8
R422100976			exhausted center		G 1/8
R422100977			exhausted center		G 1/8
R422100978			pressurized center		G 1/8
R422100979			pressurized center		G 1/8

Part No.	Compressed air connection	
	Output	Exhaust
R422100974	G 1/8	G 1/8
R422100975	G 1/8	G 1/8
R422100976	G 1/8	G 1/8
R422100977	G 1/8	G 1/8
R422100978	G 1/8	G 1/8
R422100979	G 1/8	G 1/8

Part No.	Operational voltage	Voltage tolerance	Power consumption	Pilot
	DC	DC	DC	
R422100974	24 V	-10% / +10%	2,2 W	Internal
R422100975	24 V	-10% / +10%	2,2 W	External
R422100976	24 V	-10% / +10%	2,2 W	Internal
R422100977	24 V	-10% / +10%	2,2 W	External
R422100978	24 V	-10% / +10%	2,2 W	Internal
R422100979	24 V	-10% / +10%	2,2 W	External

Part No.	Flow conductance	Flow conductance	Nominal resistance	Working pressure min./max.
	b	C-value		
R422100974	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422100975	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422100976	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422100977	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar
R422100978	0,34	3 l/(s*bar)	280 Ω	3 ... 10 bar
R422100979	0,34	3 l/(s*bar)	280 Ω	-0,9 ... 10 bar

Nominal flow Q_n 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.

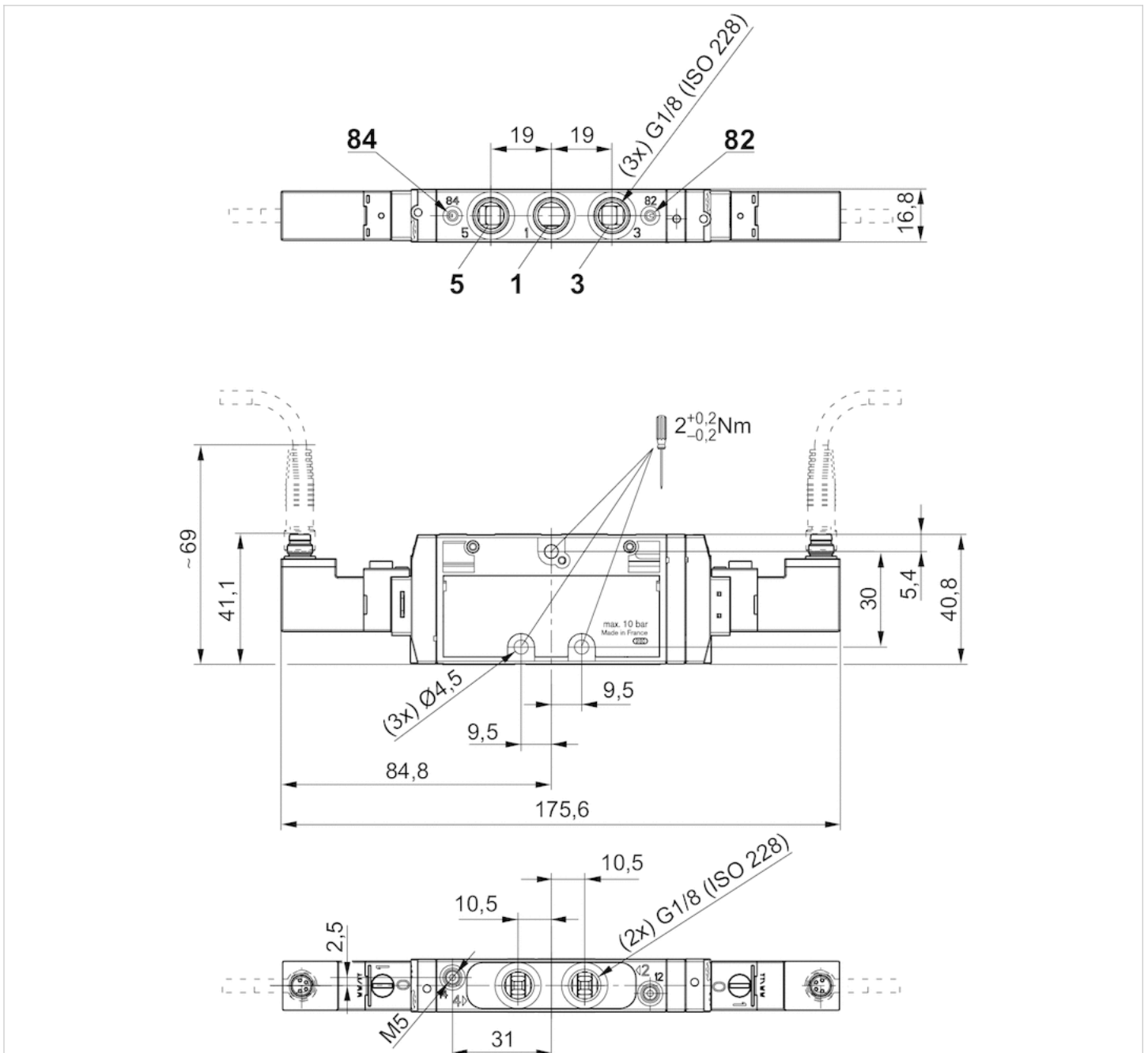
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

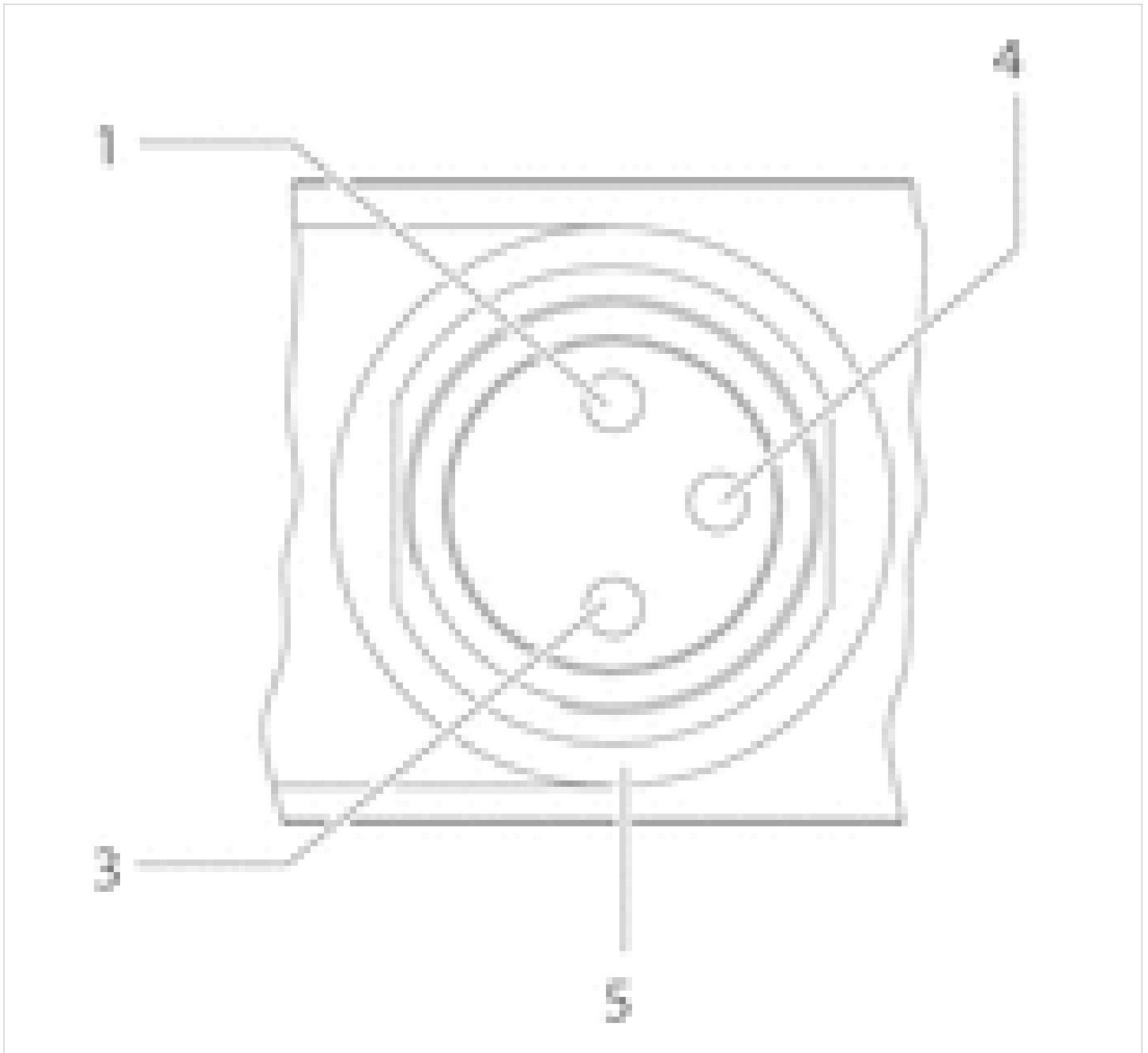
Dimensions

Dimensions



Pin assignments

PIN assignment and cable colors for valve plug connectors



PIN assignment:

- 1) PIN not assigned
- 3) 0 V
- 4) 24 V
- 5) LED

Cable color

- 1) Brown
- 3) Blue
- 4) Black

Note: Bi-polar protective circuit to prevent overvoltage