5/2-directional valve, Series TC15

- 5/2-directional valve with air spring return 5/2-directional valve with spring return 5/2-directional valve, double solenoid
- Qn = 1500 l/min
- Pilot valve width : 15 mm
- Plate connection Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, M8, 4-pin
- Can be assembled into blocks
- Manual override : with detent without detent
- double solenoid single solenoid
- Pilot : External



Type	Spool valve, positive overlapping
Activation	Electrically
Pilot	External
Sealing principle	Soft sealing
Blocking principle	Plate principle
Working pressure min./max.	-0,9 ... 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Nominal flow Qn	1500 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 %
Rail mounting DIN EN 60715	TH35 x 15
Weight	See table below

Technical data

Part No.		MO	Compressed air connection	Operational voltage
			Output	DC
0820058796			G 1/4	24 V
0820058797			G 1/4	24 V
0820058798			G 1/4	24 V
0820058896			G 1/4	24 V
0820058897			G 1/4	24 V
0820058898			G 1/4	24 V

Part No.	Voltage tolerance	Power consumption	Flow conductance	Flow conductance
	DC	DC	b	C-value
0820058796	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)
0820058797	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)
0820058798	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)

Part No.	Voltage tolerance	Power consumption	Flow conductance	Flow conductance
	DC	DC	b	C-value
0820058896	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)
0820058897	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)
0820058898	-10% / +10%	2,2 W	0,33	6,8 l/(s*bar)

Part No.	Nominal resistance	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time	Weight
0820058796	280 Ω	2,5 ... 10 bar	22 ms	20 ms	0,202 kg
0820058797	280 Ω	3 ... 10 bar	12 ms	35 ms	0,202 kg
0820058798	280 Ω	2 ... 10 bar	11 ms	11 ms	0,23 kg
0820058896	280 Ω	2,5 ... 10 bar	22 ms	20 ms	0,202 kg
0820058897	280 Ω	3 ... 10 bar	12 ms	35 ms	0,202 kg
0820058898	280 Ω	2 ... 10 bar	11 ms	11 ms	0,23 kg

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

Technical information

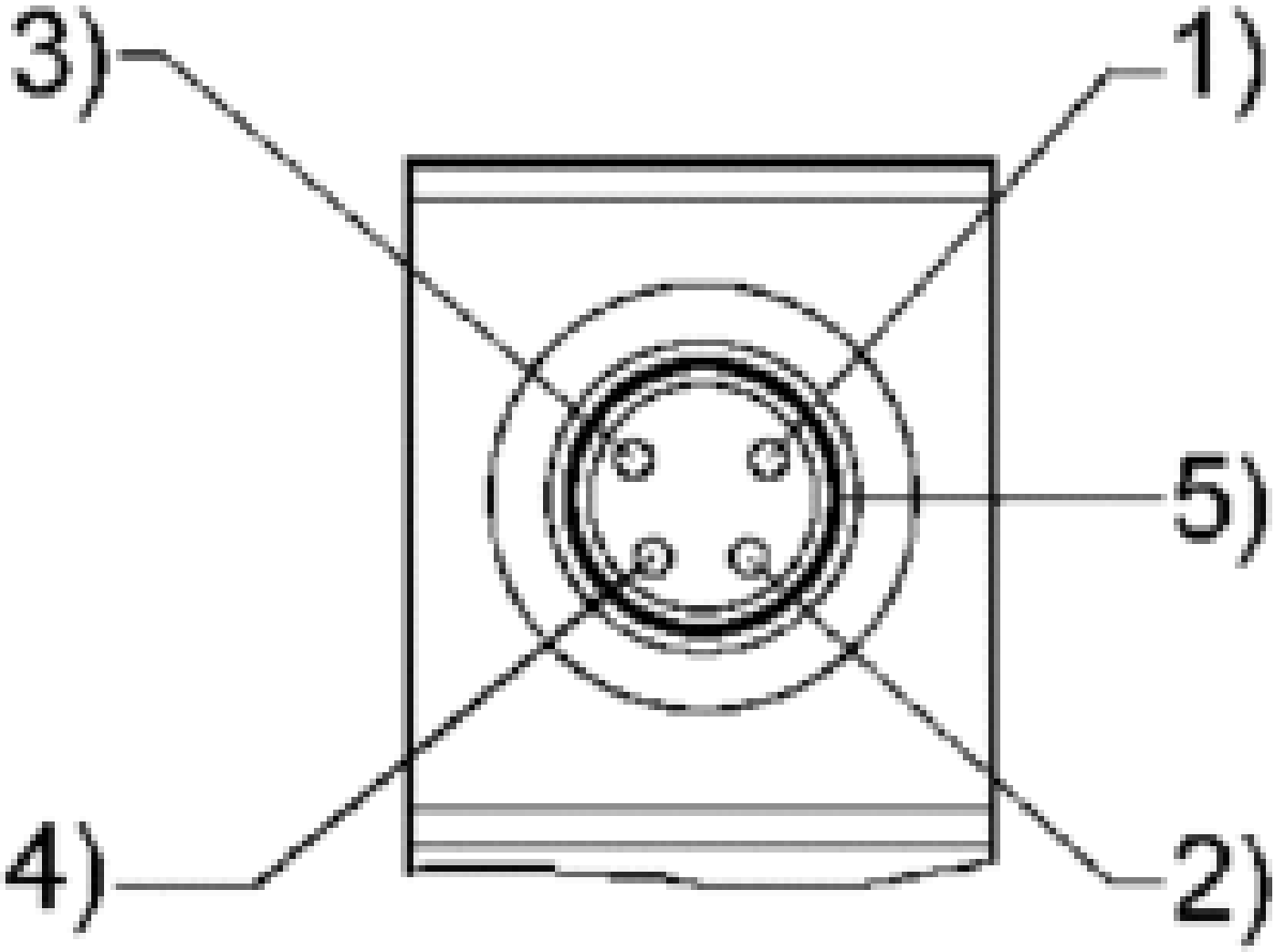
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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 Hydrogenated nitrile butadiene rubber
Front plate	Polyamide fiber-glass reinforced
Threaded bushing	Brass Die cast zinc, nickel-plated chrome-plated

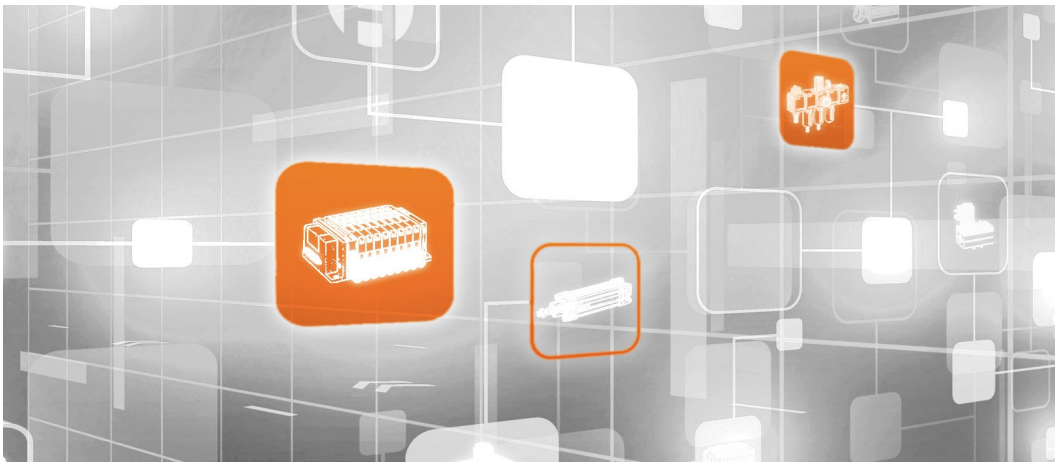
Pin assignments

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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