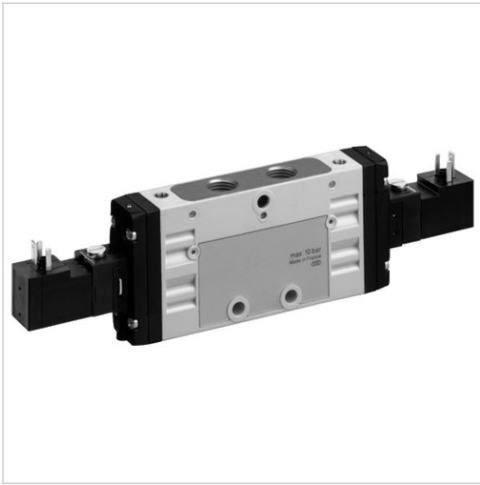

































## 2x3/2-directional valve, Series TC15

- Operating voltage 24 V AC, 110 V AC, 230 V AC
- Qn = 1100 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, ISO 15217, form C
- Manual override : with detent
- Double solenoid
- With spring return
- Pilot : internal



Version	Spool valve, positive overlapping
Activation	Electrically
Pilot	internal
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 <sup>3</sup>
Nominal flow Qn	1100 l/min
Compressed air connection	according to ISO 228-1
Connector standard	ISO 15217
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2,5 Nm
Tightening torque tolerance	±0,2 mT
Weight	0,278 kg

## Technical data

Part No.		NC/NC	MO	Compressed air connection	
				Input	
R422102136		NC/NC		G 1/4	
R422102138		NC/NC		G 1/4	
R422102139		NC/NC		G 1/4	
R422102140		NO/NO		G 1/4	
R422102142		NO/NO		G 1/4	
R422102143		NO/NO		G 1/4	
R422102144		NC/NO		G 1/4	
R422102146		NC/NO		G 1/4	
R422102147		NC/NO		G 1/4	
R422102149		NC/NC		G 1/4	
R422102150		NC/NC		G 1/4	
R422102152		NO/NO		G 1/4	
R422102153		NO/NO		G 1/4	
R422102155		NC/NO		G 1/4	
R422102156		NC/NO		G 1/4	

Part No.	Compressed air connection	
	Output	Exhaust
R422102136	G 1/4	G 1/4
R422102138	G 1/4	G 1/4
R422102139	G 1/4	G 1/4
R422102140	G 1/4	G 1/4
R422102142	G 1/4	G 1/4
R422102143	G 1/4	G 1/4
R422102144	G 1/4	G 1/4
R422102146	G 1/4	G 1/4
R422102147	G 1/4	G 1/4
R422102149	G 1/4	G 1/4
R422102150	G 1/4	G 1/4
R422102152	G 1/4	G 1/4
R422102153	G 1/4	G 1/4
R422102155	G 1/4	G 1/4
R422102156	G 1/4	G 1/4

Part No.	Compressed air connection		Operationalvoltage	
	Pilot Input		AC 50 Hz	AC 60 Hz
R422102136	-		24 V	24 V
R422102138	-		110 V	110 V
R422102139	-		230 V	230 V
R422102140	-		24 V	24 V
R422102142	-		110 V	110 V
R422102143	-		230 V	230 V
R422102144	-		24 V	24 V
R422102146	-		110 V	110 V
R422102147	-		230 V	230 V
R422102149	M5		110 V	110 V

Part No.	Compressed air connection	Operationalvoltage	Operationalvoltage
	Pilot Input	AC 50 Hz	AC 60 Hz
R422102150	M5	230 V	230 V
R422102152	M5	110 V	110 V
R422102153	M5	230 V	230 V
R422102155	M5	110 V	110 V
R422102156	M5	230 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Holding power	Holding power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
R422102136	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102138	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102139	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102140	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102142	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102143	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102144	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102146	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102147	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102149	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102150	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102152	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102153	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102155	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102156	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA

Part No.	Switch-on power	Switch-on power	Flow conductance	Flow conductance
	AC 50 Hz	AC 60 Hz	b	C-value
R422102136	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102138	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102139	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102140	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102142	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102143	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102144	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102146	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102147	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102149	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102150	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102152	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102153	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102155	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102156	2,2 VA	2 VA	0,25	5,9 l/(s*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, chrome-plated nickel-plated

