































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 : without detent
- Double solenoid
- With spring return
- Pilot : external, internal



Version	Spool valve, positive overlapping
Activation	Electrically
Pilot	external, 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 ³
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.			MO	Compressed air connection	
				Input	
R422102157		NC/NC			G 1/4
R422102159		NC/NC			G 1/4
R422102160		NC/NC			G 1/4
R422102161		NO/NO			G 1/4
R422102163		NO/NO			G 1/4
R422102164		NO/NO			G 1/4
R422102165		NC/NO			G 1/4
R422102167		NC/NO			G 1/4
R422102168		NC/NO			G 1/4
R422102170		NC/NC			G 1/4
R422102171		NC/NC			G 1/4
R422102173		NO/NO			G 1/4
R422102174		NO/NO			G 1/4
R422102176		NC/NO			G 1/4
R422102177		NC/NO			G 1/4

Part No.	Compressed air connection	
	Output	Exhaust
R422102157	G 1/4	G 1/4
R422102159	G 1/4	G 1/4
R422102160	G 1/4	G 1/4
R422102161	G 1/4	G 1/4
R422102163	G 1/4	G 1/4
R422102164	G 1/4	G 1/4
R422102165	G 1/4	G 1/4
R422102167	G 1/4	G 1/4
R422102168	G 1/4	G 1/4
R422102170	G 1/4	G 1/4
R422102171	G 1/4	G 1/4
R422102173	G 1/4	G 1/4
R422102174	G 1/4	G 1/4
R422102176	G 1/4	G 1/4
R422102177	G 1/4	G 1/4

Part No.	Compressed air connection		Operationalvoltage	
	Pilot Input		AC 50 Hz	AC 60 Hz
R422102157	-		24 V	24 V
R422102159	-		110 V	110 V
R422102160	-		230 V	230 V
R422102161	-		24 V	24 V
R422102163	-		110 V	110 V
R422102164	-		230 V	230 V
R422102165	-		24 V	24 V
R422102167	-		110 V	110 V
R422102168	-		230 V	230 V
R422102170	M5		110 V	110 V

Part No.	Compressed air connection	Operationalvoltage	Operationalvoltage
	Pilot Input	AC 50 Hz	AC 60 Hz
R422102171	M5	230 V	230 V
R422102173	M5	110 V	110 V
R422102174	M5	230 V	230 V
R422102176	M5	110 V	110 V
R422102177	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
R422102157	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102159	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102160	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102161	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102163	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102164	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102165	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102167	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102168	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102170	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102171	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102173	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102174	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102176	-10% / +10%	-10% / +10%	1,6 VA	1,4 VA
R422102177	-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
R422102157	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102159	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102160	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102161	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102163	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102164	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102165	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102167	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102168	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102170	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102171	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102173	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102174	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102176	2,2 VA	2 VA	0,25	5,9 l/(s*bar)
R422102177	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, nickel-plated chrome-plated

