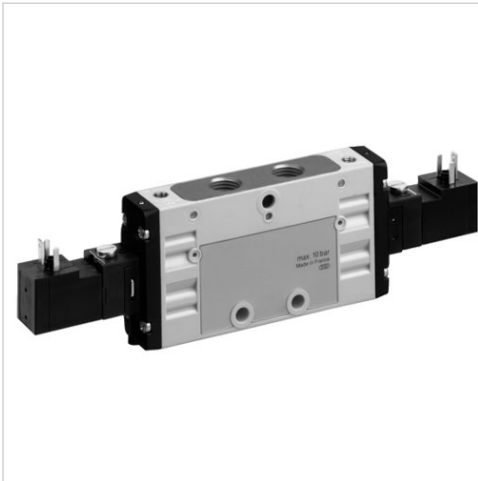





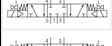





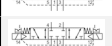

















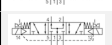









# 5/3-directional valve, Series TC15 - inch

- Operating voltage 12 V AC, 110 V AC, 230 V AC
- Qn = 1300 l/min
- Pilot valve width : 15 mm
- Pipe connection
- Compressed air connection output : 1/4 - 18 NPTF
- Electrical connection : Plug, ISO 15217, form C
- Manual override : with detent
- Double solenoid
- Pilot : internal external



Version	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 <sup>3</sup>
Nominal flow Qn	1300 l/min
Compressed air connection	according to ANSI B1.20.3
Connector standard	ISO 15217
Protection class with connection	IP65
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	0,309 kg

## Technical data

Part No.		MO	Compressed air connection	
			Input	Output
R422101272			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101274			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101275			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101276			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101278			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101279			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101280			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101282			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101283			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101284			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101286			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101287			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101288			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101290			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101291			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101292			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101294			1/4 - 18 NPTF	1/4 - 18 NPTF
R422101295			1/4 - 18 NPTF	1/4 - 18 NPTF

Part No.	Compressed air connection	Operationalvoltage	
	Exhaust	DC	AC 50 Hz
R422101272	1/4 - 18 NPTF	12 V	-
R422101274	1/4 - 18 NPTF	-	110 V
R422101275	1/4 - 18 NPTF	-	230 V
R422101276	1/4 - 18 NPTF	12 V	-
R422101278	1/4 - 18 NPTF	-	110 V
R422101279	1/4 - 18 NPTF	-	230 V
R422101280	1/4 - 18 NPTF	12 V	-
R422101282	1/4 - 18 NPTF	-	110 V
R422101283	1/4 - 18 NPTF	-	230 V
R422101284	1/4 - 18 NPTF	12 V	-
R422101286	1/4 - 18 NPTF	-	110 V
R422101287	1/4 - 18 NPTF	-	230 V
R422101288	1/4 - 18 NPTF	12 V	-
R422101290	1/4 - 18 NPTF	-	110 V
R422101291	1/4 - 18 NPTF	-	230 V
R422101292	1/4 - 18 NPTF	12 V	-
R422101294	1/4 - 18 NPTF	-	110 V
R422101295	1/4 - 18 NPTF	-	230 V

Part No.	Operationalvoltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R422101272	-	-10% / +10%	-	-
R422101274	110 V	-	-10% / +10%	-10% / +10%
R422101275	230 V	-	-10% / +10%	-10% / +10%
R422101276	-	-10% / +10%	-	-

Part No.	Operational voltage	Voltage tolerance	Voltage tolerance	Voltage tolerance
	AC 60 Hz	DC	AC 50 Hz	AC 60 Hz
R422101278	110 V	-	-10% / +10%	-10% / +10%
R422101279	230 V	-	-10% / +10%	-10% / +10%
R422101280	-	-10% / +10%	-	-
R422101282	110 V	-	-10% / +10%	-10% / +10%
R422101283	230 V	-	-10% / +10%	-10% / +10%
R422101284	-	-10% / +10%	-	-
R422101286	110 V	-	-10% / +10%	-10% / +10%
R422101287	230 V	-	-10% / +10%	-10% / +10%
R422101288	-	-10% / +10%	-	-
R422101290	110 V	-	-10% / +10%	-10% / +10%
R422101291	230 V	-	-10% / +10%	-10% / +10%
R422101292	-	-10% / +10%	-	-
R422101294	110 V	-	-10% / +10%	-10% / +10%
R422101295	230 V	-	-10% / +10%	-10% / +10%

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R422101272	2 W	-	-	-
R422101274	-	3 VA	2,4 VA	4 VA
R422101275	-	3 VA	2,4 VA	4 VA
R422101276	2 W	-	-	-
R422101278	-	3 VA	2,4 VA	4 VA
R422101279	-	3 VA	2,4 VA	4 VA
R422101280	2 W	-	-	-
R422101282	-	3 VA	2,4 VA	4 VA
R422101283	-	3 VA	2,4 VA	4 VA
R422101284	2 W	-	-	-
R422101286	-	3 VA	2,4 VA	4 VA
R422101287	-	3 VA	2,4 VA	4 VA
R422101288	2 W	-	-	-
R422101290	-	3 VA	2,4 VA	4 VA
R422101291	-	3 VA	2,4 VA	4 VA
R422101292	2 W	-	-	-
R422101294	-	3 VA	2,4 VA	4 VA
R422101295	-	3 VA	2,4 VA	4 VA

Part No.	Switch-on power	Pilot	Flow conductance	Flow conductance	Nominal resistance
	AC 60 Hz		b	C-value	
R422101272	-	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101274	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101275	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101276	-	external	0,31	5,9 l/(s*bar)	185 Ω
R422101278	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω
R422101279	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω
R422101280	-	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101282	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101283	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101284	-	external	0,31	5,9 l/(s*bar)	185 Ω
R422101286	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω



Part No.	Switch-on power	Pilot	Flow conductance	Flow conductance	Nominal resistance
	AC 60 Hz		b	C-value	
R422101287	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω
R422101288	-	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101290	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101291	3,8 VA	internal	0,31	5,9 l/(s*bar)	185 Ω
R422101292	-	external	0,31	5,9 l/(s*bar)	185 Ω
R422101294	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω
R422101295	3,8 VA	external	0,31	5,9 l/(s*bar)	185 Ω

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



Dimensions in inches

