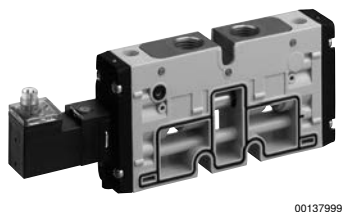


Valve systems ► Valve systems

Valves, Series TC15

► Qn = 1100 - 1500 l/min ► Pilot valve width: 15 mm ► plate connection, pipe connection ► compressed air connection output: G 1/4 ► Electr. connection: Plug, M8, 4-pin ► Can be assembled into blocks ► Manual override: with detent, without detent ► double solenoid, single solenoid ► Pilot: external



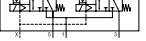
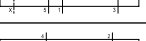
00137999

Version	Spool valve, zero overlap
Sealing principle	Soft sealing
Blocking principle	Plate principle
Rail mounting DIN EN 60715	TH35 x 15
Working pressure min./max.	-0.9 bar / 10 bar
Control pressure min./max.	See table below
Ambient temperature min./max.	-10 °C / +50 °C
Medium temperature min./max.	-10 °C / +50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Nominal flow Qn	See table below
Connector standard	DIN EN 60947-5-2
Protection class acc. to DIN EN 61140 electrically	Class III
Protection class with connection	IP65
Status display LED	Yellow
Duty cycle	100 %
Weight	See table below
Materials:	
Housing	Polyamide, fiber-glass reinforced
Seals	Acrylonitrile Butadiene Rubber; Hydrogenated nitrile butadiene rubber
Front plate	Polyamide, fiber-glass reinforced

Technical Remarks

- 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, see chapter „Technical information“.

Operational voltage	Voltage tolerance	Power consumption
DC	DC	DC
		W
24 V	-10% / +10%	2.2

		MO	Compressed air connection	Operational voltage	Power consumption	Flow conductance		Flow rate value	Nom- inal resistance	Part No.
			Output	DC	DC	b	C	Qn		
					[W]		[l/(s*bar)]	[l/min]	[Ω]	
	NC/NC		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102220
	NO/NO		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102221
	NC/NO		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102222

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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Valves, Series TC15

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		MO	Compressed air connection	Operational voltage	Power consumption	Flow conductance		Flow rate value	Nominal resistance	Part No.
			Output	DC	DC	b	C	Qn		
					[W]		[l/(s*bar)]	[l/min]	[Ω]	
	NC/NC		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102223
	NO/NO		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102224
	NC/NO		G 1/4	24 V	2.2	0.25	5.9	1100	280	R422102225
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058796
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058797
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058798
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058896
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058897
	-		G 1/4	24 V	2.2	0.33	6.8	1500	280	0820058898
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059796
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059797
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059798
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059896
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059897
	-		G 1/4	24 V	2.2	0.31	5.9	1300	280	0820059898

Part No.	Control pressure min./max.	Switch-on time	Switch-off time	Weight
	[bar]	[ms]	[ms]	[kg]
R422102220	3 / 10	12	16	0.251
R422102221	3 / 10	12	16	0.251
R422102222	3 / 10	12	16	0.251
R422102223	3 / 10	12	16	0.251

MO = Manual override

push-in fitting: Brass, nickel-plated; Die cast zinc, chrome-plated

Nominal flow Qn at 6 bar and Δp = 1 bar

Valve systems ▶ Valve systems

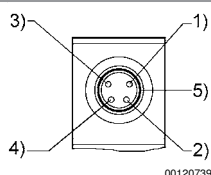
Valves, Series TC15

▶ $Q_n = 1100 - 1500 \text{ l/min}$ ▶ Pilot valve width: 15 mm ▶ plate connection, pipe connection ▶ compressed air connection output: G 1/4 ▶ Electr. connection: Plug, M8, 4-pin ▶ Can be assembled into blocks ▶ Manual override: with detent, without detent ▶ double solenoid, single solenoid ▶ Pilot: external

Part No.	Control pressure min./max.	Switch-on time	Switch-off time	Weight
	[bar]	[ms]	[ms]	[kg]
R422102224	3 / 10	12	16	0.251
R422102225	3 / 10	12	16	0.251
0820058796	2.5 / 10	22	20	0.202
0820058797	3 / 10	12	35	0.202
0820058798	2 / 10	11	11	0.23
0820058896	2.5 / 10	22	20	0.202
0820058897	3 / 10	12	35	0.202
0820058898	2 / 10	11	11	0.23
0820059796	3 / 10	12	13	0.245
0820059797	3 / 10	12	13	0.245
0820059798	3 / 10	12	13	0.245
0820059896	3 / 10	12	13	0.245
0820059897	3 / 10	12	13	0.245
0820059898	3 / 10	12	13	0.245

MO = Manual override
push-in fitting: Brass, nickel-plated; Die cast zinc, chrome-plated
Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

PIN assignment and cable colors for electrical connector



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

Note: Bi-polar protective circuit to prevent overvoltage