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AVENTICS™ Mini Spool Valves

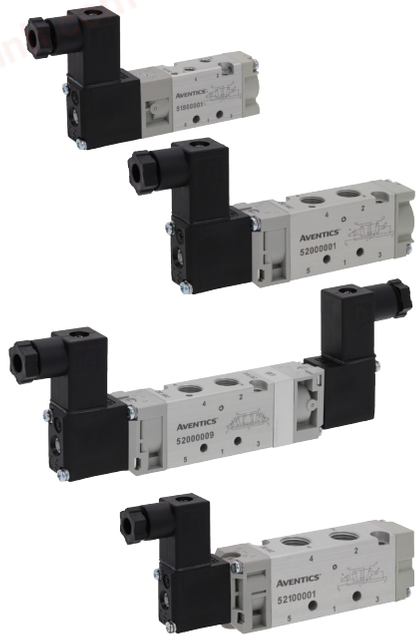
5 way, Solenoid Air Operated
M5 or 1/8" or 1/4" Tapped, adaptable on multiple or joinable subbases

5/2-5/3
Series
519/520/521

General

Operating pressure	1.5 to 8 bar
Ambient temperature range	+5°C to +50°C
Orifice size	519: 2.5 mm; 520: 4 mm; 521: 6 mm
Flow (Qv at 6 bar)	Series 519: 175 l/min (ANR) - Kv: 2.5 Series 520: 600 l/min (ANR) - Kv: 8.5 Series 521: 1050 l/min (ANR) - Kv: 15

fluids (∗)	temperature range (TS)	materials (∗)
air or inert gas filtered at 50 µm, lubricated or not	+5°C to +50°C	NBR (nitrile)



Materials in contact with fluid

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified

Body	Anodised white aluminium
Cover	POM (polyacetal)
Internal parts	Stainless steel, light alloy and POM (polyacetal)
Seals	NBR

Electrical characteristics

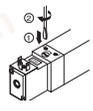
Coil insulation class	F
Connector	Spade plug (cable Ø 4-6 mm)
Connector specification	EN 175301-803, industry standard form C (9.4 mm)
Electrical safety	IEC 335
Electrical enclosure protection	Moulded IP65 (EN 60529)
Standard voltages	DC (=) : 24V
(Other voltages and frequencies on request)	AC (~) : 24V/50-60 Hz - 115V/50-60 Hz 230V/50-60 Hz

operator ambient temperature range (TS)	power ratings			replacement coil			Type
	holding ~		hot/cold =	~		=	
°C (°F)	(VA)	(W)	(W)	-	-	-	
+5 to +50	2	1.5	1.6	-	-	-	01

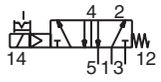
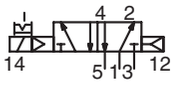
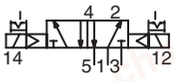
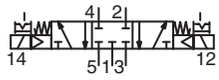
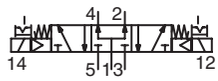
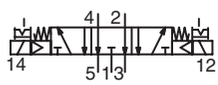
Options

• UR approval « UL Recognized »

(∗) Ensure that the compatibility of the fluids in contact with the materials is verified.



Specifications

function symbol		operators: pilot (14)	operators: return (12)	response time (ms): energized	response time (ms): de-energized	voltages	Catalog number with manual operator (maintained/impulse): serie 519	serie 520	serie 521
5/2		solenoid air	spring	20	30	24V ~	-	**52000386**	-
						115V ~	-	**52000387**	-
						230V ~	-	**52000388**	-
						24V =	-	**52000380**	**52100401**
		solenoid air	air spring	20	30	24V ~	**51900002**	**52000002**	**52100002**
						115V ~	**51900003**	**52000003**	**52100003**
						230V ~	**51900004**	**52000004**	**52100004**
						24V =	**51900001**	**52000001**	**52100001**
		solenoid air	solenoid air	20	-	24V ~	**51900006**	**52000006**	**52100006**
						115V ~	**51900007**	**52000007**	**52100007**
						230V ~	**51900008**	**52000008**	**52100008**
						24V =	**51900005**	**52000005**	**52100005**
5/3		**W1** closed centre position solenoid air, spring return to centre position		20	50	24V ~	**51900010**	**52000010**	**52100010**
						115V ~	**51900011**	**52000011**	**52100011**
						230V ~	**51900012**	**52000012**	**52100012**
						24V =	**51900009**	**52000009**	**52100009**
		**W2** centre open to pressure solenoid air, spring return to centre position		20	50	24V ~	**51900126**	**52000126**	**52100126**
						115V ~	**51900127**	**52000127**	**52100127**
						230V ~	**51900128**	**52000128**	**52100128**
						24V =	**51900129**	**52000129**	**52100129**
		**W3** centre open to exhaust solenoid air, spring return to centre position		20	50	24V ~	**51900087**	**52000087**	**52100087**
						115V ~	**51900088**	**52000088**	**52100088**
						230V ~	**51900089**	**52000089**	**52100089**
						24V =	**51900090**	**52000090**	**52100090**

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Accessories

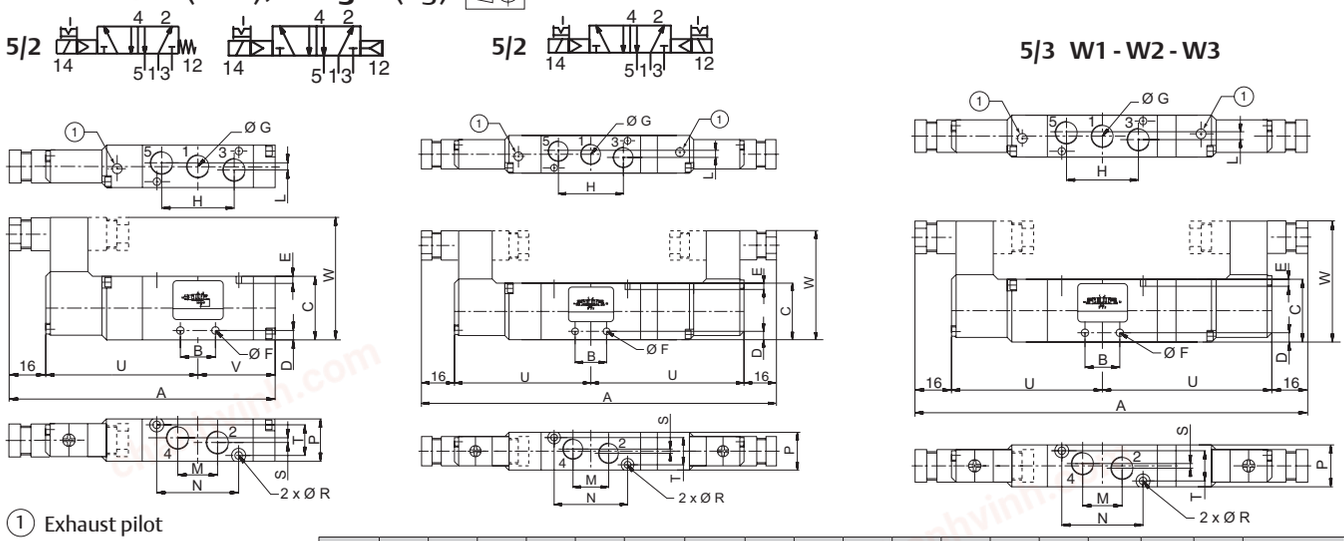
- Visual indicator (LED) and electrical protection: 24 V DC/AC, Catalog number **88130401**; 115 V AC, Catalog number **88130402**; 230 V AC, Catalog number **88130403**
- Non rotatable connector with cable, 2 m length:
  - without LED indicator, Catalog number **88143567**
  - with integrated LED indicator and electrical protection, Catalog number **88143580**
- Flange for ports 2 - 4 with instant fittings for flexible tube 6 mm O.D. (series 520): Catalog number **88135532**
- Series 519/520/521: Adaptable on light alloy multiple subbases (fixing screws and seals are supplied with subbases)
- Series 519: Adaptable on joinable subbases

Installation

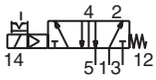
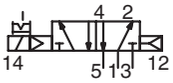
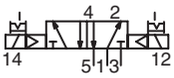
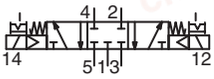
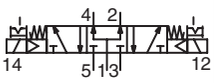
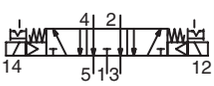
- The spool valves can be mounted in any position without affecting operation
- Spool valves have 2 mounting holes in body
- Thread connection “G” applicable for 1/4 have standard thread according to ISO 228/1 and ISO 7/1. Thread connection “G” applicable for 1/8, have standard thread according to ISO 228/1
- Multi language installation/maintenance instructions are included with each spool valve

Dimensions (mm), Weight (kg)

5/2 5/2 5/3 W1 - W2 - W3



① Exhaust pilot

			A	B	C	D	E	ØF	ØG	H	L	M	N	P	ØR	S	T	U	V	W	weight (1)
5/2		519	97.5	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5	-	52	0.085
		520	123.3	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8	42.5	54.5	0.095
		521	131.3	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7	-	56.5	0.155
		519	97.5	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5	25	52	0.085
		520	114	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8	33.2	54.5	0.095
		521	131.3	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7	41.6	56.5	0.155
		519	145	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5		52	0.135
		520	161.5	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8		54.5	0.160
		521	179.5	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7		56.5	0.200
5/3		519	153	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5	64.5	52	0.140
		520	170.3	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8	73.7	54.5	0.170
		521	188.3	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7	82.6	56.5	0.210
		519	153	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5	64.5	52	0.140
		520	170.3	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8	73.7	54.5	0.170
		521	188.3	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7	82.6	56.5	0.210
		519	153	11	26	4	4	3.3	M5	21.6	-	11	19	15	2.7	6	11	56.5	64.5	52	0.140
		520	170.3	15	27	6	3	3.3	G1/8	32.4	3	16.2	35	18	3.2	-	13	64.8	73.7	54.5	0.170
		521	188.3	22	31	6.5	4	4.3	G1/4	44	4	22	50	22	4.2	4	16	73.7	82.6	56.5	0.210

(1) Incl. coil(s) and connector(s).

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