

AVENTICS™ Mini Spool Valves

5 way, Solenoid Air Operated

M5 or 1/8" or 1/4" Tapped, adaptable on multiple or joinable subbases

ASCO™ 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

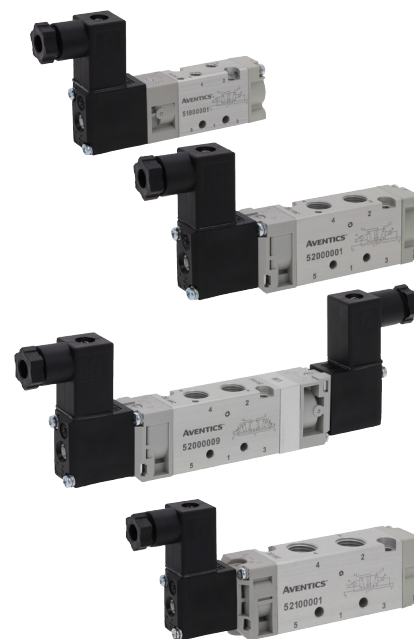
(*) Ensure that the compatibility of the fluids in contact with the materials is verified

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 AC (~) : 24V/50-60 Hz - 115V/50-60 Hz
(Other voltages and frequencies on request)	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		response time (ms)		voltages	Catalog number with manual operator (maintained/impulse)		
	pilot (14)	return (12)	energized	de-energized		serie 519	serie 520	serie 521
	solenoid air	spring	20	30	24V ~	-	52000386	-
					115V ~	-	52000387	-
					230V ~	-	52000388	-
	solenoid air	air spring	20	30	24V ~	51900002	52000002	52100002
					115V ~	51900003	52000003	52100003
					230V ~	51900004	52000004	52100004
	solenoid air	solenoid air	20	-	24V =	51900001	52000001	52100001
					24V ~	51900006	52000006	52100006
					115V ~	51900007	52000007	52100007
	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	
	W2 centre open to pressure solenoid air, spring return to centre position	20	50	24V =	51900009	52000009	52100009	
				24V ~	51900126	52000126	52100126	
				115V ~	51900127	52000127	52100127	
	W3 centre open to exhaust solenoid air, spring return to centre position	20	50	230V ~	51900128	52000128	52100128	
				24V =	51900129	52000129	52100129	
				24V ~	51900087	52000087	52100087	
	230V ~	51900088	52000088	52100088	115V ~	51900088	52000088	52100088
					230V ~	51900089	52000089	52100089
					24V =	51900090	52000090	52100090

00439CB-2021/R01
Availability, design and specifications are subject to change without notice. All rights reserved.

A.P.O. - ELMOS v.o.s., Pražská 90, 509 01 Nová Paka, Tel.: +420 493 504 261, E-mail: apo@apoelmos.cz, Internet: www.apoelmos.cz

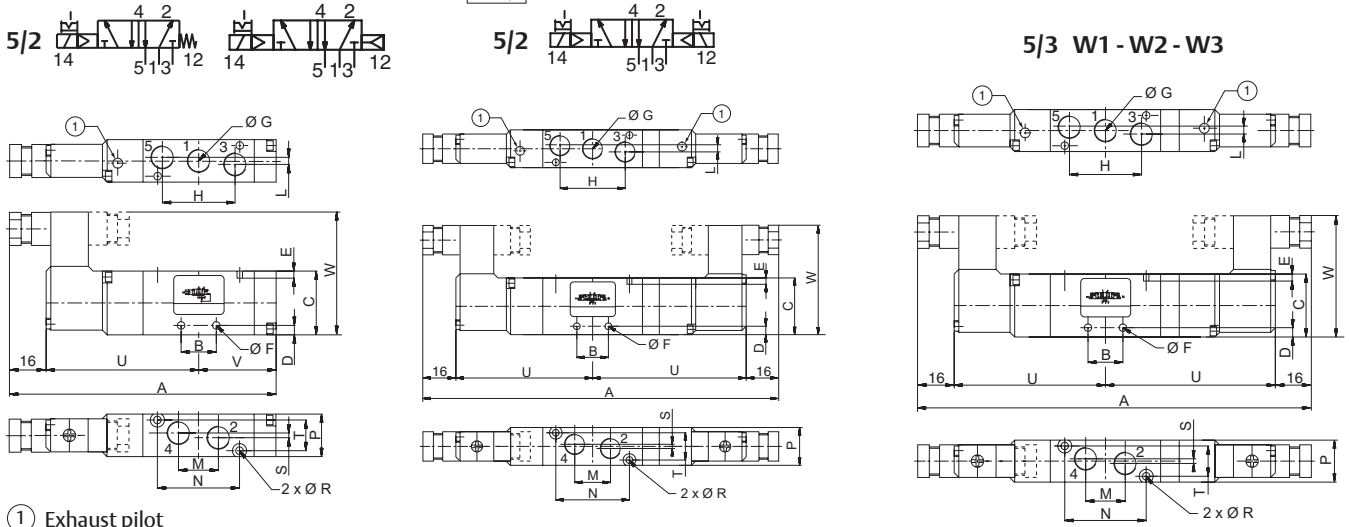
Accessories

- 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)



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	
	5/3		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
		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).