

FEATURES

- Pneumatic control valve
- G 1/4 connection port thread
- Five ports
- Two positions
- Inline or manifold mount
- Solenoid/spring actuation
- Maximum flow rate of 1,020 L/min
- Maximum operating temperature of +50 °C
- Minimum operating temperature of -5 °C
- Maximum operating pressure of 8 bar
- Minimum operating pressure of 2 bar
- Die-cast aluminium body
- Manufacturer series V51

RS PRO Pneumatic Control Valve - Solenoid/Spring G 1/4 V51 Series 24V dc

RS Stock No.: 907-6387



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This pneumatic control valve from RS PRO is used to control the flow of air from one part of a pneumatic system to another. It's controlled by a solenoid coil and set up in a 5/2 configuration, meaning it has five ports and two switching positions. The 5/2 valve alternates between two kinds of pressure as required. This kind of device is often used as a directional control valve for a double-acting pneumatic actuator.

General Specifications

Function	5/2
Actuation Type	Solenoid/Spring
Solenoid Fitted	Yes
Body Material	Die Cast Aluminium
Number of Positions	2
Configuration	5/2
Thread Standard	G
Number of Ports	5/2
Special Features	Compact and Robust Design, High Flow in-Line Valves, Low Power Energy Efficient Solenoids
Application	Robotics, packaging and textile manufacture.

Electrical Specifications

Solenoid Voltage	24V dc
Solenoid Power Consumption	1W

Mechanical Specifications

Connection Port Thread	G 1/4
Maximum Flow Rate	1020L/min
Mounting Style	Inline, Manifold
Thread Size	1/4

Operation Environment Specifications

Minimum Operating Temperature	-5°C
Maximum Operating Temperature	+50°C
Minimum Operating Pressure	2bar
Maximum Operating Pressure	8bar

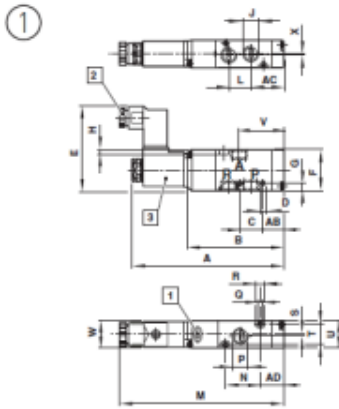
Approvals

Compliance/Certifications	RoHS, ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007
Hazardous Area Certification	ATEX

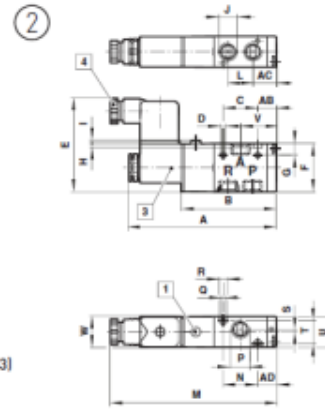


DIMENSIONS

3/2 Single solenoid pilot valve,
1/8" port
Air return



3/2 Single solenoid pilot valve,
1/4" ... 1/2" ports
Spring return

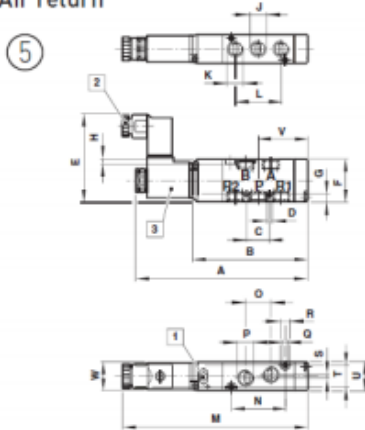


- 1 Manual override (Push and Turn)
- 2 Gland size Pg 7
- 3 Solenoid rotates 2 x 180° (V50), 4 x 90° (V51 ... V53)
- 4 Gland size Pg 9

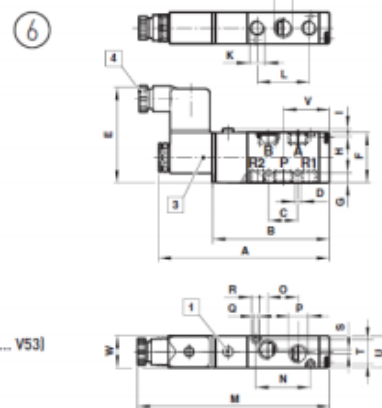
Series	Drawing no.	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	1	99,5	13,5	21,5	15,5	65	15	3,2	55,5	27	5	3	-	1/8"
V51	2	106,5	13,5	17	13,5	69	25	4,2	67	35	8,5	3	3	1/4"
V52	2	126,5	13	26	15	89	26	4,5	73	46,5	39,5	4	3	3/8"
V53	2	133	12,5	27	15	96	29	4,5	73	46,5	39,5	4	3	1/2"

Series	Drawing no.	L	M	N	P	Q	R	S	T	U	V	W	X
V50	1	14,5	108	23	1/8"	3,2	6	1	13	18	29,5	16	0,5
V51	2	18	120	25	1/4"	3,2	6	2	17	22,5	26	22	-
V52	2	26	139,5	41	3/8"	4,5	8	-	23	30	41	22	-
V53	2	29	146	48	1/2"	4,2	8	2,5	23	30	40,5	22	-

5/2 Single solenoid pilot valve,
1/8" port
Air return



5/2 Single solenoid pilot valve,
1/4" ... 1/2" ports
Spring return



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Series	Drawing no.	A	B	C	D	E	F	G	H	I	J	K	L
V50	5	110	76	14,5	3,2	54	27	5	3	-	1/8"	1/8"	29
V51	6	118,5	81	20	4,2	67	35	7	3	3	1/4"	1/8"	36
V52	6	145,5	108	26	5,5	73	46,5	4,5	4	3	3/8"	3/8"	52
V53	6	157	120	29	4,5	73	46,5	7	4	3	1/2"	1/2"	58

Series	Drawing no.	M	N	O	P	Q	R	S	T	U	V	W
V50	5	118,5	34	16	1/8"	3,2	6	2	13	18	32,5	16
V51	6	132	38	21	1/4"	3,2	6	3	17	22,5	32	22
V52	6	158,5	13	30	3/8"	4,5	8	-	23	30	45	22
V53	6	170	72	28	1/2"	4,2	8	4,5	23	30	51	22

SOLENOID ACTUATED VALVES - internal pilot supply, push and turn manual override

RS Stock Number	Symbol	Function	Actuation	Port Size	Operating Pressure (bar)	Flow (l/min)	Drawing Number	Models
9076384		3/2	Sol/Air	G1/8	2...8	480	1	V50A413A-A2
9076393		3/2	Sol/Spring	G1/4	2...8	1020	2	V51B417A-A2
9076374		5/2	Sol/Air	G1/8	2...8	480	5	V50A513A-A2
9076387		5/2	Sol/Spring	G1/4	2...8	1020	6	V51B517A-A2
9076396		5/2	Sol/Spring	G1/2	2...8	2480	6	V53D517A-A2
9076378		5/2	Sol/Sol	G1/8	2...8	480	7	V50A511A-A2
9076380		5/2	Sol/Sol	G1/4	2...8	1020	8	V51B511A-A2
9076390		5/2	Sol/Sol	G1/2	2...8	2480	8	V53D511A-A2

