

- > **Port size:**
1/8 (ISO G)
- > **Compact design for industrial automation sector**
- > **High flow rate**
- > **Connector with LED light as standard**
- > **Robust design**
- > **Sub-base system for easy assembly**



Technical features

Medium:

Compressed air, filtered to 40 µm, lubricated or non lubricated

Operation:

Solenoid

Operating pressure:

1,5 ... 7 bar (22 ... 101 psi)

Flow:

>400 l/min

at inlet pressure 6 bar (87 psi)

with 1 bar (14,5 psi) drop

Response time:

20ms

Mounting:

Sub-base, through holes, threaded holes

Mounting position:

Optional, preferred horizontal

Ambient/Media temperature:

-5 ... +50°C (+23 ... +122°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials:

Body: Aluminium alloy

Spool: Aluminium

Manual override: Plastic

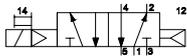
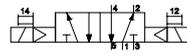
Seal: NBR, HNBR

Cap: Plastic

Electrical details for solenoid operators

Supply voltage:	24 V d.c
Voltage tolerance	+/- 10%
Power consumption:	1 W +/- 10%
Electrical connection:	non-standard
Manual override:	Push only
Rating:	100% E.D.
Indication	LED
Protection class:	IP40

5/2 directional control valves, in-line version

Symbol	Function	Port size	Actuation/return	Fluid/Ambient (°C)	Pilot supply	Flow (l/min)	Operating pressure (bar)	Weight (kg)	Power consumption (W)	Voltage	Drawing No.	Model
	5/2	G1/8	Solenoid/Air Spring	-5 ... +50°C	Built-in	>400 l/min	1.5 ... 7	0.064	1	24 V d.c.	1	VCB10B513A-AA313A
	5/2	G1/8	Solenoid/Solenoid	-5 ... +50°C	Built-in	>400 l/min	1.5 ... 7	0.078	1	24 V d.c.	2	VCB10B511A-AA313A

Option selector

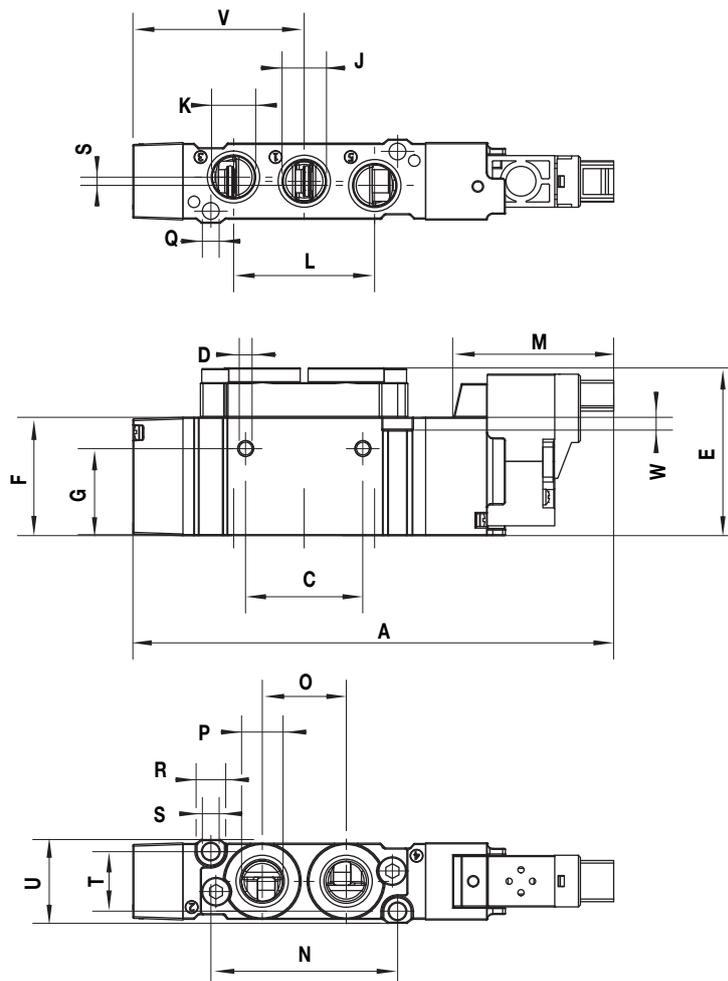
Valve size	Substitute	Connector type	Substitute
16 mm	B	VCB10 Connector	A
Function	Substitute	Voltage code	Substitute
5/2	5	24 V d.c.	13
Actuation	Substitute	Manual override	Substitute
Sol/sol	11	Push only	3
Sol/air spring	13	Thread	Substitute
Operator	Substitute	G1/8 (16 mm only)	A
10 mm	A-A		

VCB10*****-*****

Dimensions

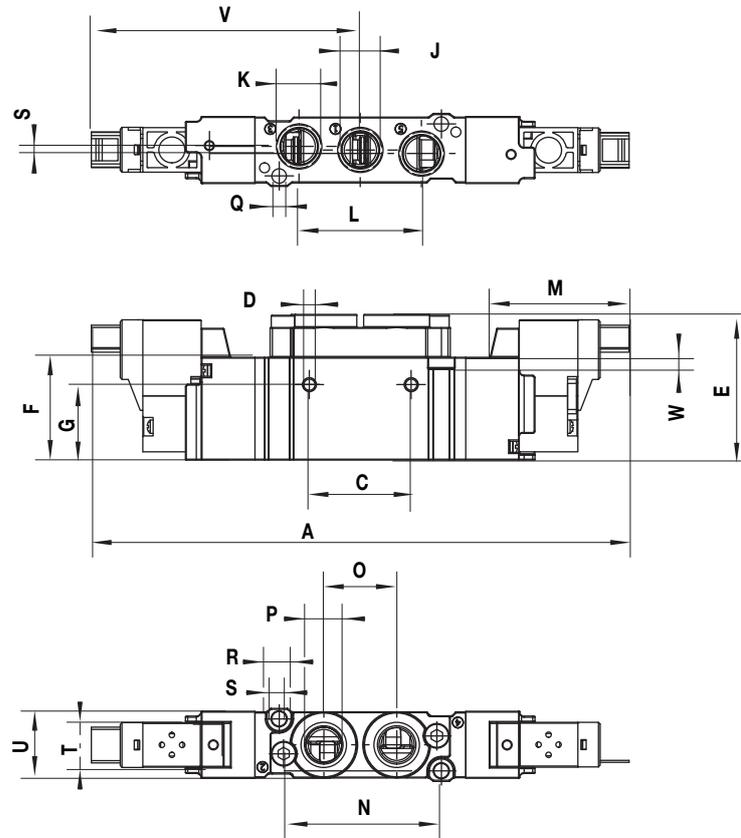
Dimensions in mm
Projection/First angle

1



No.	A	C	D	E	F	G	J	K	L	M	N	O	P	ΦQ	R	S	T	U	V	W	Model
1	93	22,6	M3	32,6	23	16,7	G1/8"	G1/8"	27,2	31	36	16,2	G1/8"	3,2	5,7	1,6	11,6	16,3	33	2,5	VCB10B513A-AA313A

Dimensions
2

 Dimensions in mm
Projection/First angle


No.	A	C	D	E	F	G	J	K	L	M	N	O	P	ΦQ	R	S	T	U	V	W	Model
2	119	22,6	M3	32,6	23	16,7	G1/8"	G1/8"	27,2	31	36	16,2	G1/8"	3,2	5,7	1,6	11,6	16,3	60	2,5	VCB10B511A-AA313A

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren Ltd.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure. System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided. System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.