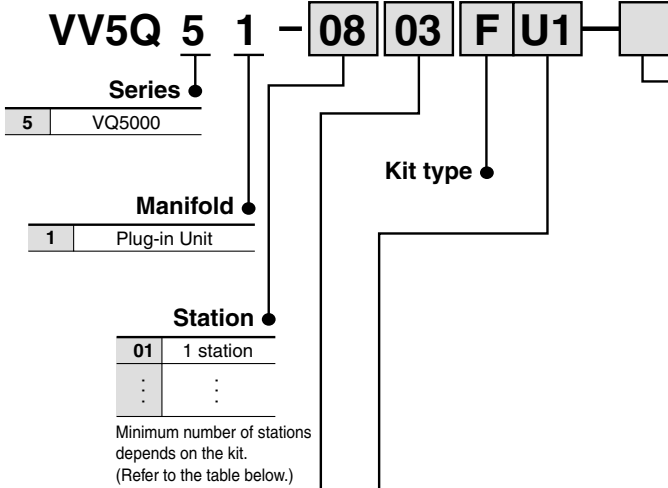


Series VQ5000

Base Mounted Plug-in Unit



How to Order Manifold



Symbol	Option
Nil	None
CD1 ⁽²⁾	Exhaust cleaner for Rc 1: D side exhaust
CD2 ⁽²⁾	Exhaust cleaner for Rc 1 1/2: D side exhaust
CU1 ⁽²⁾	Exhaust cleaner for Rc 1: U side exhaust
CU2 ⁽²⁾	Exhaust cleaner for Rc 1 1/2: U side exhaust
K ⁽⁴⁾	Special wiring specifications (Except double wiring)
N	Name plate (T kit only)
SB ⁽³⁾	Direct exhaust with silencer box: Exhaust from both D and U sides
SD ⁽²⁾	Direct exhaust with silencer box: D side exhaust
SU ⁽²⁾	Direct exhaust with silencer box: U side exhaust
W	IP65 enclosure (except F and T1 kits)

Note 1) When two or more symbols are specified, indicate them alphabetically.
Example) -CD1K

Note 2) Combination of [C] and [S] is not possible.

Note 3) Available only with F, L and T1 kits.

Note 4) Specify the wiring specifications on the manifold specification sheet. (Except L kit)

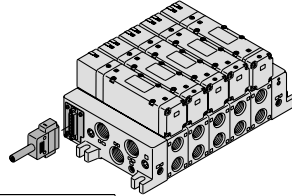
Cylinder port

03	Rc 3/8
04	Rc 1/2
B	Bottom ported Rc 1/2
CM	Mixed ^{Note)}

Note) In case of mixed specification, indicate on the manifold specification sheet.

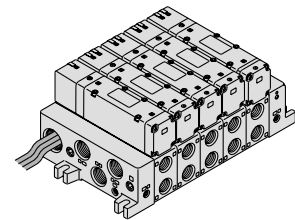
Kit/Electrical entry/Cable length

F kit
(D-sub connector)



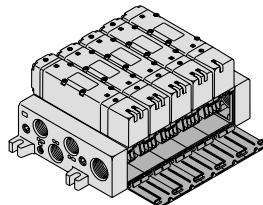
Connector entry direction				1 to 12 stations
D side	U side	Kit	Without cable	
	D0	U0	Without cable	
Kit F	D1	U1	Cable length 1.5 m	
	D2	U2	Cable length 3 m	
	D3	U3	Cable length 5 m	

L kit
(Lead wire cable)



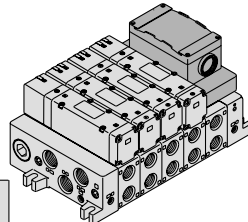
Electrical entry				1 to 12 stations
D side	U side	Kit	IP65 compatible	
	D0	U0	Without cable	
Kit L	D1	U1	Cable length 0.6 m	
	D2	U2	Cable length 1.5 m	
		U2	Cable length 3 m	

T1 kit
(Individual terminal block kit)



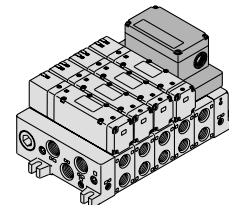
Kit T1	With terminal blocks	1 to 12 stations
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T kit
(Terminal block box kit)



Box mounting position		IP65 compatible
D side	U side	
TD	TU	Terminal block box 2 to 12 stations

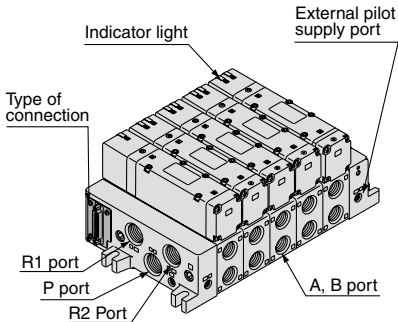
S kit
(Serial transmission unit)



The valve voltage is 24 VDC and it is equipped with light/surge voltage suppressor.
IP65 compatible

Unit mounting position		
D side	U side	
	O	Without SI unit
	A	With general type SI unit (Series EX300)
	B	Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System
	BB	Mitsubishi Electric Corp.: MELSECNET/MINI-S3 Data Link System (2 power supply systems)
	C	OMRON Corp.: SYSBUS Wire System
	D	SHARP Corp.: Satellite I/O Link System
	F1	NKE Corp.: Uni-wire System (16 output points)
	J1	SUNX Corp.: S-LINK System (16 output points)
	J2	SUNX Corp.: S-LINK System (8 output points)
	K	Fuji Electric Co.: T-LINK Mini System
	Q	DeviceNet, CompoBus/D (OMRON Corp.)
	R1	OMRON Corp.: CompoBus/S System (16 output points)
	R2	OMRON Corp.: CompoBus/S System (8 output points)
	U	JEMANET (JPCN-1)
	V	Mitsubishi Electric Corp.: CC-LINK System
	G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System
	H	NKE Corp.: Uni-wire H System

2 to 12 stations



Note) The drawing shows a VV5Q51-0504FDO.

Manifold Specifications

Series	Base model	Type of connection	Porting specifications			Maximum applicable stations	Applicable solenoid valve	5 station weight (kg)
			4(A), 2(B) port location	Port size ^{Note)}				
				1(P), 5(R1), 3(R2)	4(A), 2(B)			
VQ5000	VV5Q51-□□□	<ul style="list-style-type: none"> ■ F kit—D-sub connector ■ T kit—Terminal block box ■ T1 kit—Individual terminal block kit ■ L kit—Lead wire ■ S kit—Serial transmission 	Side Bottom	Rc 3/4 Option {Direct exhaust with silencer box}	Rc 3/8 Rc 1/2 Rc 1/2	F, L, T1 kits 12 stations T kit 11 stations S kit 9 stations	VQ5L00 VQ5L01	4.1 • L kit • Not including solenoid valve weight.

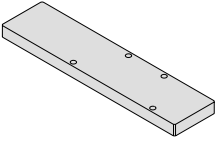
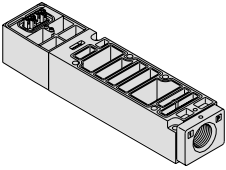
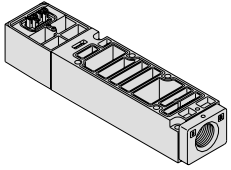
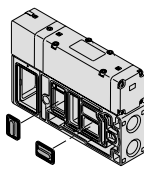
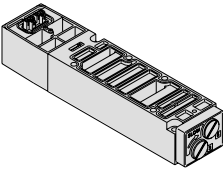
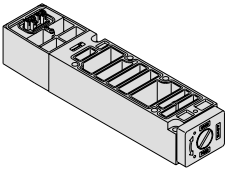
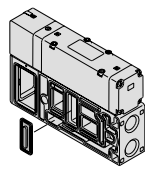
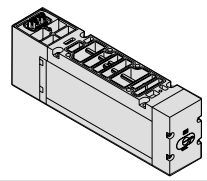
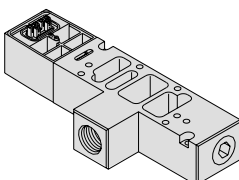
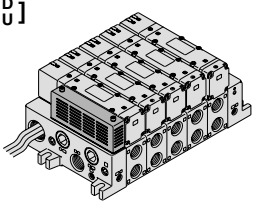
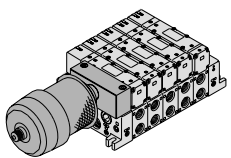
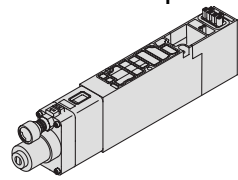
Note) For details about international standard threads other than Rc threads, refer to "Option" on page 2-6-39.

Flow Characteristics at the Number of Manifold Stations (Operated individually)

Model	Passage/Stations		Station 1	Station 5	Station 10
2 position metal seal VQ5 ₂ 00	1 → 4/2 (P → A/B)	C [dm ³ /(s·bar)]	11	11	11
		b	0.24	0.24	0.24
		Cv	2.7	2.7	2.7
	4/2 → 5/3 (A/B → EA/EB)	C [dm ³ /(s·bar)]	12	12	12
		b	0.14	0.14	0.14
		Cv	2.9	2.9	2.9
2 position rubber seal VQ5 ₂ 01	1 → 4/2 (P → A/B)	C [dm ³ /(s·bar)]	12	12	12
		b	0.33	0.33	0.33
		Cv	3.4	3.4	3.4
	4/2 → 5/3 (A/B → EA/EB)	C [dm ³ /(s·bar)]	16	16	16
		b	0.33	0.33	0.33
		Cv	4.4	4.4	4.4

Note) For port size Rc 1/2

Manifold Option

Blanking plate assembly VVQ5000-10A-1 	Individual SUP spacer VVQ5000-P-1- ⁰³ / ₀₄ 	Individual EXH spacer VVQ5000-R-1- ⁰³ / ₀₄ 	EXH block plate VVQ5000-16A-2 
Throttle valve spacer VVQ5000-20A-1 	SUP stop valve spacer VVQ5000-37A-1 	SUP block plate VVQ5000-16A-1 	Double check spacer with residual pressure release valve VVQ5000-25A-1 
Release valve spacer VVQ5000-24A-1D 	Direct exhaust with silencer box [-S _U ^D] 	For exhaust cleaner mounting [-C _U ^D □] 	Interface regulator ARBQ5000-00- ^A / _B -1 

Refer to pages 2-6-34 to 2-6-38 for detailed dimensions of each option.
For replacement parts, refer to page 2-6-43.



VQC

SQ

VQ0

VQ4

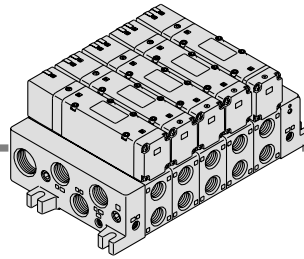
VQ5

VQZ

VQD

Series VQ5000

T1 Kit (Individual terminal block kit)



- When the junction cover on the manifold is opened, terminal box is installed in the manifold block. Lead wire from a solenoid is connected with the terminals on the terminal box in the bottom side. (The terminal box is connected with lead wire for both SOL. A and SOL. B and they correspond with the marking 1, 2, 3, 4 on the terminal box. Refer to how to connect with the terminal box.)
- Maximum stations are 12.

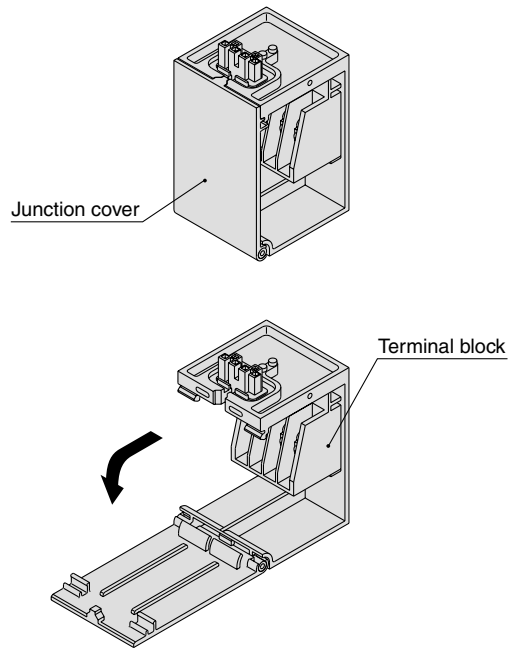
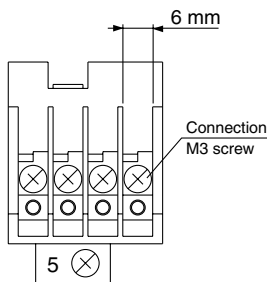
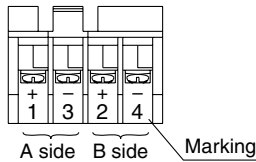
Manifold Specifications

Series	Porting specifications		Applicable stations
	4(A), 2(B) port location	Port size	
VQ5000	Side	1(P), 5(R1), 3(R2) / 4(A), 2(B)	Max. 12 stations
	Bottom	Rc 3/4 / Rc 3/8, 1/2 / Rc 1/2	

Terminal Block Connections

Terminal block marking	1	3	2	4
Model VQ510 ₁ ⁰	A side +	A side -		
VQ520 ₁ ⁰	A side +	A side -	B side +	B side -
VQ540 ₅ ³ ₁ ⁰	A side +	A side -	B side +	B side -

- Compatible crimp terminals: 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5
- There is no polarity (+, -).



How to Order Manifold

VV5Q 5 1 - 08 03 T1 - SD

Series
5 VQ5000

Manifold
1 Plug-in unit

Stations

1	1 station
⋮	⋮
12	12 stations

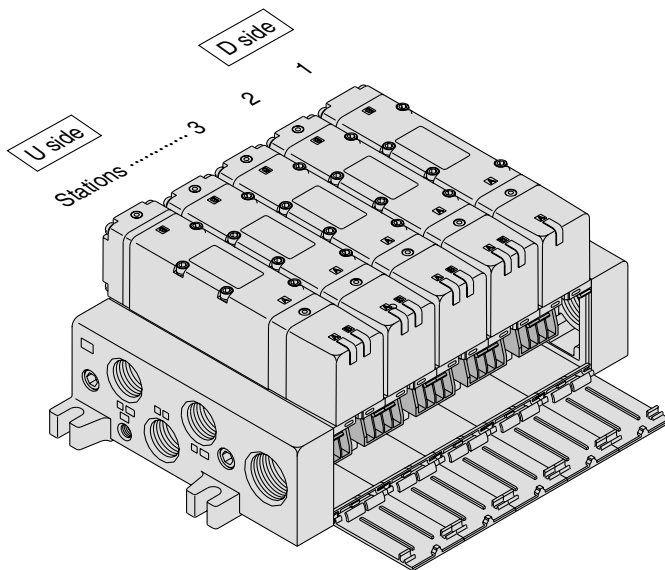
Cylinder port

03	Rc 3/8
04	Rc 1/2
B	Bottom ported Rc 1/2
CM	Mixed

Option

Symbol	Option
Nil	None
CD1 ^{Note)}	Exhaust cleaner for Rc 1: D side exhaust
CD2 ^{Note)}	Exhaust cleaner for Rc 1 1/2: D side exhaust
CU1 ^{Note)}	Exhaust cleaner for Rc 1: U side exhaust
CU2 ^{Note)}	Exhaust cleaner for Rc 1 1/2: U side exhaust
SB ^{Note)}	Direct exhaust with silencer box: Exhaust from both U and D side
SD ^{Note)}	Direct exhaust with silencer box: D side exhaust
SU	Direct exhaust with silencer box: U side exhaust

Note) Combination of [C_U^D] and [S_D^D] is not possible.



- VQC
- SQ
- VQ0
- VQ4
- VQ5**
- VQZ
- VQD

How to Order Valves



Series
5 VQ5000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center
6	3 position double check

Seal

0	Metal seal
1	Rubber seal

Function

Nil	Standard type (1 W)
Y ⁽¹⁾	Low wattage type (0.5 W)
R ⁽²⁾	External pilot

Manual override

Nil	Non-locking push type (Tool required)
B	Locking type (Tool required)

Light/Surge voltage suppressor

Nil	Yes
E	Without light, with surge voltage suppressor

Coil voltage

1	100 VAC (50/60 Hz)
2	200 VAC (50/60 Hz)
3	110 VAC (50/60 Hz)
4	220 VAC (50/60 Hz)
5	24 VDC
6	12 VDC

Note 1) Applicable to DC specification.
 Note 2) Refer to page 2-6-39 for details on external pilot specifications.
 Note 3) When two or more symbols are specified, indicate them alphabetically.

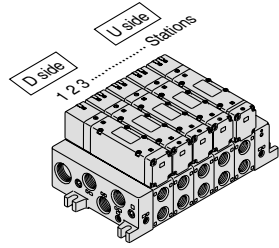
How to Order Manifold Assembly

Specify the part numbers for valves and options together beneath the manifold base part number.

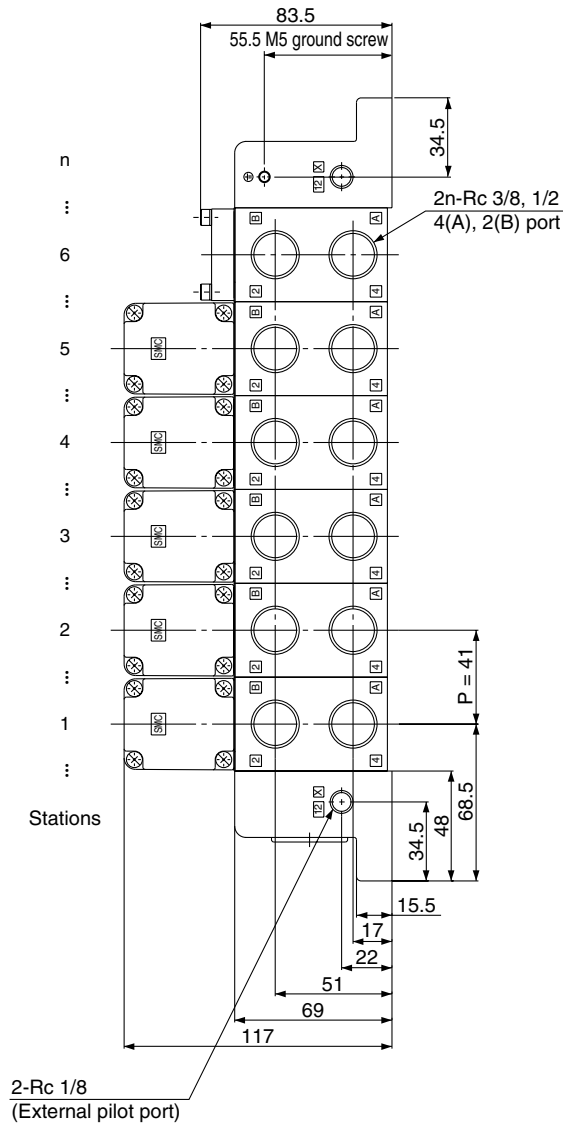
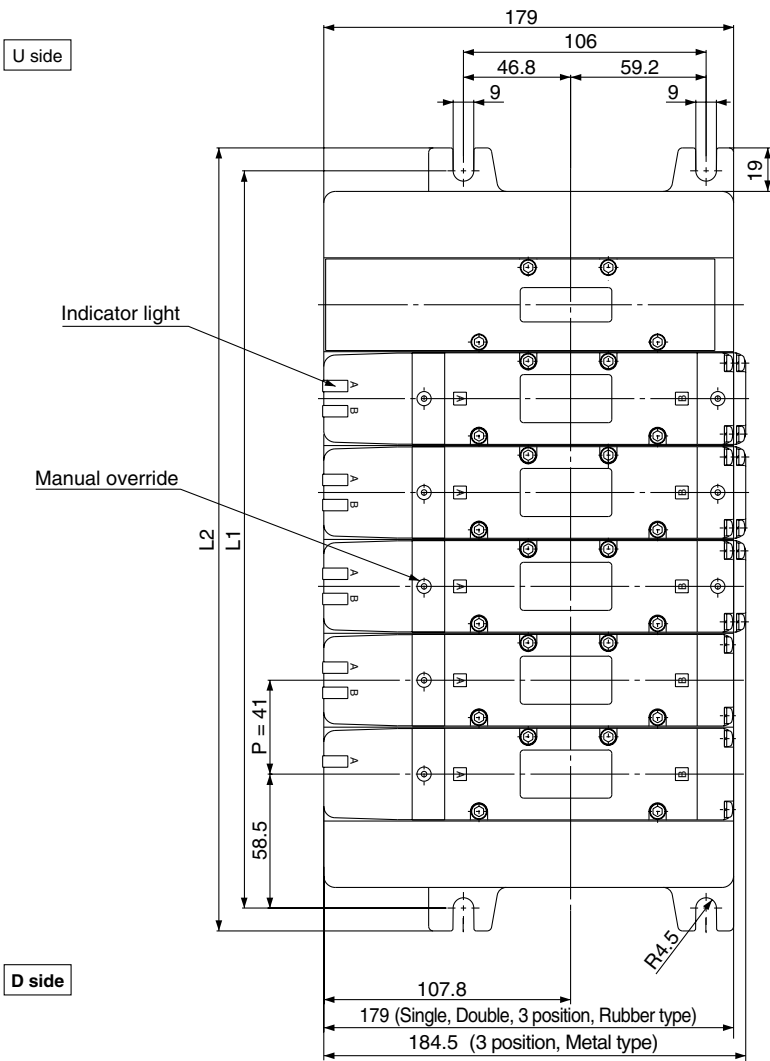
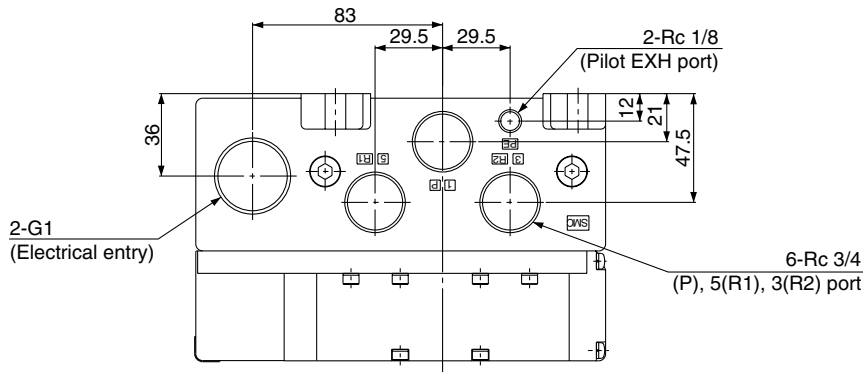
<Example>
Individual terminal block kit
 VV5Q51-0503T1... 1 set—Manifold base part no.
 *VQ5100-5 2 sets—Valve part no. (Stations 1 and 2)
 *VQ5200-5 2 sets—Valve no. (Stations 3 and 4)
 *VQ5300-5 1 set—Valve part no. (Station 5)

Prefix the asterisk to the part nos. of the solenoid valve, etc.

Enter in order starting from the first station on the D side. When entry of part numbers becomes complicated, indicate in the manifold specification sheet.

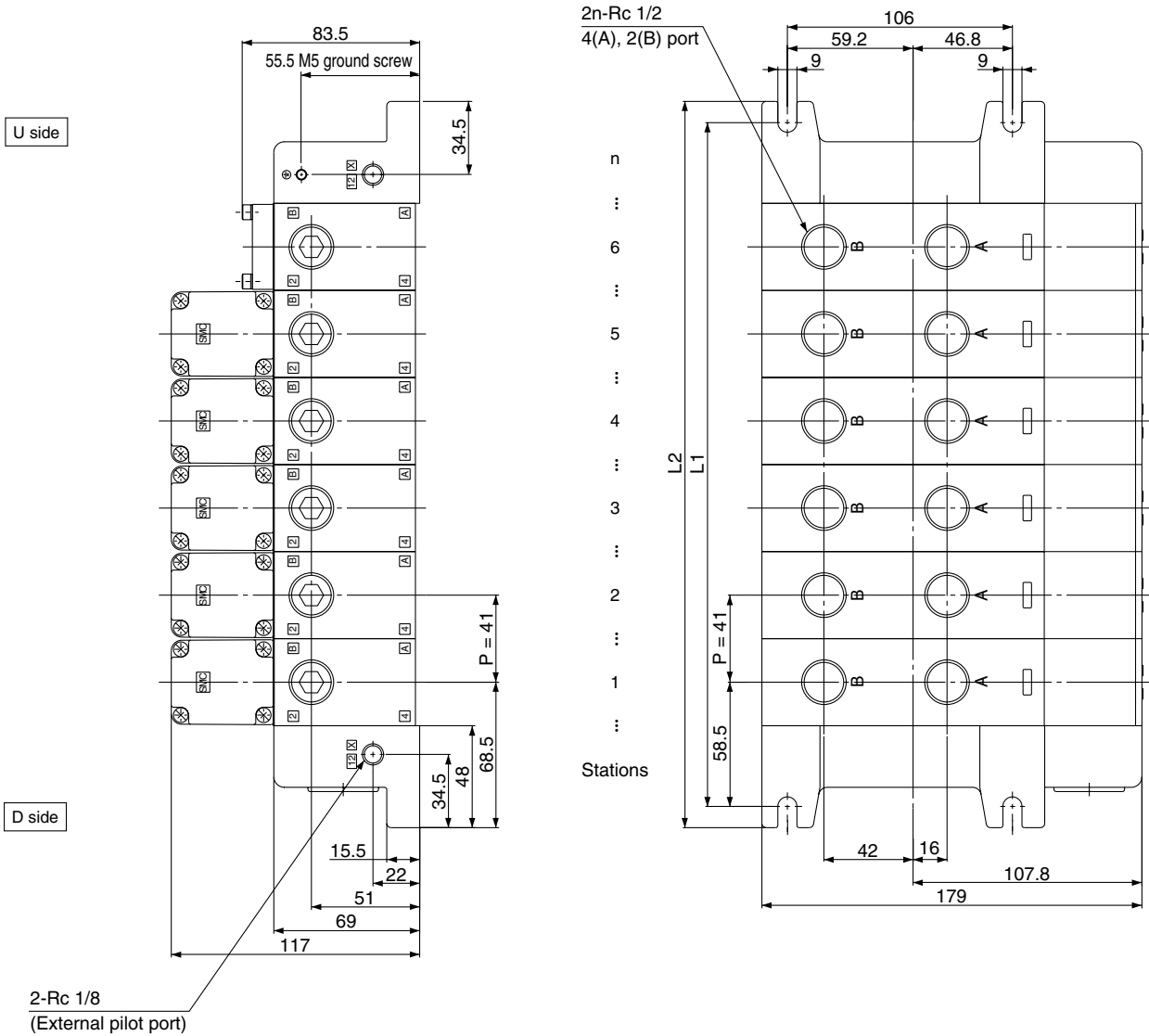


T1 Kit (Individual terminal block kit)



Bottom ported drawing

- VQC
- SQ
- VQ0
- VQ4
- VQ5**
- VQZ
- VQD



Dimensions

Formula: $L1 = 41n + 76$, $L2 = 41n + 96$
 n: Stations (Maximum 12 stations)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12
L1	117	158	199	240	281	322	363	404	445	486	527	568
L2	137	178	219	260	301	342	383	424	465	506	547	588