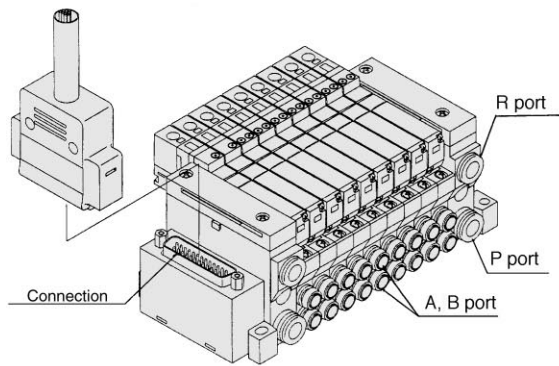


Manifold Specifications

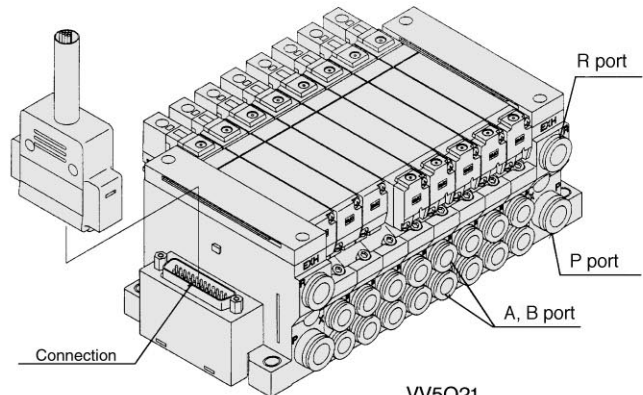
Serie	Base model	Electrical connection	Porting specifications		Applicable stations ⁽²⁾	Applicable solenoid valve	5 station weight (g)	
			Port location	Port size ⁽¹⁾				
				P, R				A, B
VQ1000	VV5Q11-□□□	<ul style="list-style-type: none"> ■F kit: D-sub connector ■P kit: Flat cable connector ■G kit: Flat cable connector with terminal block ■T kit: Terminal box ■L kit: Lead wire cable ■S kit: Serial transmission unit 	Side	C8 (ø8) Option: built-in silencer (Direct exhaust)	C3 (ø3.2) C3 (ø4) C6 (ø6) M5 (M5 thread)	(2 to 24 stations F, P, T kits) (2 to 16 stations G, S kits) (1 to 8 stations L kit)	VQ1□00 VQ1□01	628 (Single) 759 (Double, 3 position)
VQ2000	VV5Q21-□□□	<ul style="list-style-type: none"> ■F kit: D-sub connector ■P kit: Flat cable connector ■G kit: Flat cable connector with terminal block ■T kit: Terminal box ■L kit: Lead wire cable ■S kit: Serial transmission unit 	Side	C10 (ø10) Option: built-in silencer (Direct exhaust)	C4 (ø4) C6 (ø6) C8 (ø8)	(2 to 24 stations F, P kits) (2 to 16 stations G, S kits) (1 to 8 stations L kit) (2 to 20 stations T kit)	VQ2□00 VQ2□01	1051 (Single) 1144 (Double, 3 position)



Note 1) One-touch fittings in inch sizes are also applicable. Refer to p.1.10-161 for details.
 Note 2) Refer to p.1.10-160 for details.



VV5Q11



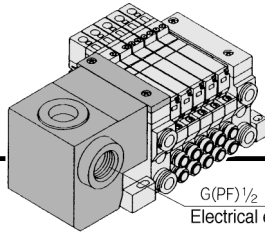
VV5Q21

- SY
- SYJ
- SX
- VK
- VZ
- VF
- VFR
- VP7
- VP4
- VQ
- VQ4
- VQZ
- VQD
- VZS
- VFS
- VS
- VS7

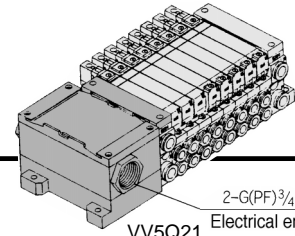
T VQ1000/2000 Kit (Terminal Box)

IP65 available

VV5Q11



G(PF)1/2
Electrical entry



2-G(PF)3/4
Electrical entry

Manifold Specifications

Series	Porting specifications			Applicable stations
	Port location	Port size		
VQ1000	Side	C8	C3, C4, C6, M5	Max. 24
VQ2000	Side	C10	C4, C6, C8	Max. 20

● This kit has a small terminal box inside a junction box. The electrical entry port {VQ1000: G(PF)1/2, VQ2000: G(PF)3/4} permits connection of conduit fittings.

● Max. 24 stations.

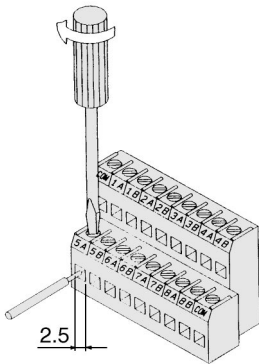
● Enclosure: dust-resistant/jet-proof type (IP65) available. (Series VQ2000)

Terminal Block Connection

Open the terminal block cover for wire connection.

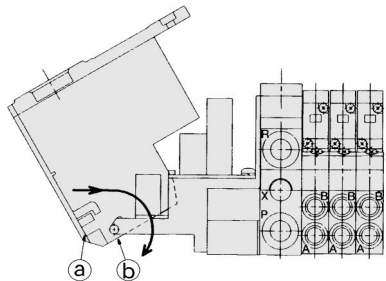
Sequence 1. How to remove terminal block cover

Loosen the screws on the terminal block cover and open it in the direction shown by the arrow. The cover can then be removed from the terminal block.



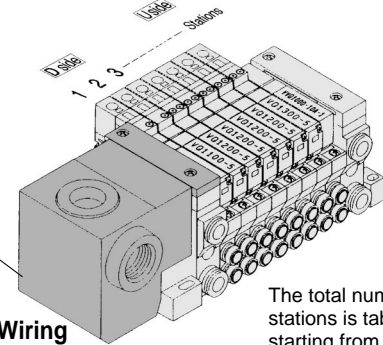
Sequence 2. Wire connection

The diagram on the left shows the terminal block wiring schematic. All stations are provided with double solenoid wiring. Insert each lead wire into the terminal opening and tighten the screw directly above.



Sequence 3. How to replace terminal block cover

Hook groove "b" on shaft "a" and close the cover. Then tighten the screws.



The total number of stations is tabulated starting from station one on the D side.

Electrical Wiring Specifications/VQ1000

Terminal No.	Polarity
COM ₋ , COM	(+) (-)
1 station { SOL _A , 1A	(-) (+)
{ SOL _B , 1B	(-) (+)
2 stations { SOL _A , 2A	(-) (+)
{ SOL _B , 2B	(-) (+)
3 stations { SOL _A , 3A	(-) (+)
{ SOL _B , 3B	(-) (+)
4 stations { SOL _A , 4A	(-) (+)
{ SOL _B , 4B	(-) (+)
5 stations { SOL _A , 5A	(-) (+)
{ SOL _B , 5B	(-) (+)
6 stations { SOL _A , 6A	(-) (+)
{ SOL _B , 6B	(-) (+)
7 stations { SOL _A , 7A	(-) (+)
{ SOL _B , 7B	(-) (+)
8 stations { SOL _A , 8A	(-) (+)
{ SOL _B , 8B	(-) (+)
9 stations { SOL _A , 9A	(-) (+)
{ SOL _B , 9B	(-) (+)
10 stations { SOL _A , 10A	(-) (+)
{ SOL _B , 10B	(-) (+)
11 stations { SOL _A , 11A	(-) (+)
{ SOL _B , 11B	(-) (+)
12 stations { SOL _A , 12A	(-) (+)
{ SOL _B , 12B	(-) (+)
COM ₋ , COM	(+) (-)

Note) Use negative COM valves for negative COM specification manifolds. See p.1.10-160 for details.

How to Order Manifold

VV5Q 1 1-08 C6 T 0-N

Series

1	VQ1000
2	VQ2000

Manifold

1	Plug-in unit
---	--------------

Stations

02	2 stations
⋮	⋮
24 ^{Note)}	24 stations

Note) VQ2000: Max. 20 stations.

Cylinder ports

Symbol	Port size	VQ1000	VQ2000
C3	One-touch fitting for ø3.2	●	
C4	One-touch fitting for ø4	●	●
C6	One-touch fitting for ø6	●	●
C8	One-touch fitting for ø8	●	●
M5	M5 thread	●	
CM	Mixed size/with port plug	●	● ⁽³⁾

Note 1) Insert "L" (top piping) or "B" (bottom piping) for elbow type. Example) B6 (Elbow One-touch fittings for ø6, bottom piping.)

Note 2) Indicate "LM" for models with elbow fittings and mixed cylinder port sizes.

Note 3) Specify "Mixed size/with port plug" by means of manifold specification form.

Note 4) Refer to "Options" on p.1.10-161 for One-touch fittings in inch sizes.

Option

Symbol	Option	VQ1000	VQ2000	Remarks
-	None	●	●	
B	Check valve for prevention of back press.	●	●	(2)
D	DIN rail mounting	●	●	
G1	1 set of regulator unit			
G2	2 sets of regulator unit	●		(3)
G3	3 sets of regulator unit			
J□	With vacuum ejector unit	●		(4)
K	Special wiring specification (Not double wiring)	●	●	(5)
N	With name plate	●	●	
R	External pilot	●	●	(6)
S	Built-in silencer (Direct exhaust)	●	●	
W	IP65		●	

Note 1) If specifying more than one option, please list alphabetically. Example) -BRS

Note 2) Models with a suffix "B" have check valves for prevention of back pressure at all manifold stations. If not all stations need this check valve, specify the stations where check valves are installed by a manifold specification form.

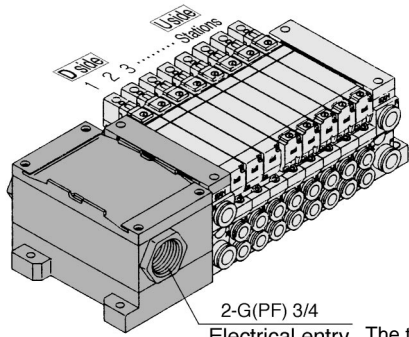
Note 3) Specify the mounting position by means of the manifold specification form. A combination of "J" and "N" is unavailable.

Note 4) Refer to p.1.10-152 for the details of ejector mounted styles.

Note 5) Specify the wiring by means of the manifold specification form.

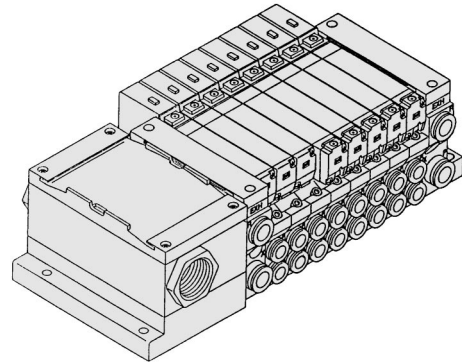
Note 6) Indicate "R" for the valve with external pilot.

Note) Refer to "Options" on p.1.10-160 for negative COM specifications.



2-G(PF) 3/4
Electrical entry

The total number of stations is tabulated starting from station one on the D side.



VV5Q21
Dust resistant/Jet proof type

Special Wiring Specifications/VQ2000

Station	Terminal No.	Polarity
1 station	SOL.A. 1A	(-) (+)
	SOL.B. 1B	(-) (+)
2 stations	SOL.A. 2A	(-) (+)
	SOL.B. 2B	(-) (+)
3 stations	SOL.A. 3A	(-) (+)
	SOL.B. 3B	(-) (+)
4 stations	SOL.A. 4A	(-) (+)
	SOL.B. 4B	(-) (+)
5 stations	SOL.A. 5A	(-) (+)
	SOL.B. 5B	(-) (+)
6 stations	SOL.A. 6A	(-) (+)
	SOL.B. 6B	(-) (+)
7 stations	SOL.A. 7A	(-) (+)
	SOL.B. 7B	(-) (+)
8 stations	SOL.A. 8A	(-) (+)
	SOL.B. 8B	(-) (+)
9 stations	SOL.A. 9A	(-) (+)
	SOL.B. 9B	(-) (+)
10 stations	SOL.A. 10A	(-) (+)
	SOL.B. 10B	(-) (+)
	COM.	(+) (-)

Irrespective of the valves or options, the internal wiring is made double (connected to SOL. A and SOL. B) for respective stations of the manifold. The optional specifications permits mixture of single and double wiring. See p.1.10-160 for details.

Note) Use negative COM valves for negative COM specification manifolds. See p.1.10-160 for details.

- SY
- SYJ
- SX
- VK
- VZ
- VF
- VFR
- VP7
- VP4
- VQ
- VQ4
- VQZ
- VQD
- VZS
- VFS
- VS
- VS7

How to Order Valve

VQ 1 1 0 0 Y - 5

Series	1 VQ1000 2 VQ2000
Configuration	1 2 position single 2 2 position double 3 3 position closed center 4 3 position exhaust center 5 3 position pressure center
Seal	0 Metal 1 Rubber
Pilot valve	Symbol Specification DC AC - Standard (1.0W) ○ (1) H High pressure (1.5W) ○ - Y Low wattage (0.5W) ○ -
Enclosure	- Dust proof W Dust tight/Jet proof (IP65) Note) Note) VQ2000 only.
Manual override	- Non-locking push style B Push-locking slotted style C Push-locking lever style
Indicator light and surge voltage suppressor	- Yes E No
Coil voltage	1 100V AC (50/60Hz) 3 110V AC (50/60Hz) 5 24V DC 6 12V DC

Note) Refer to "Options" on p.1.10-160 and 1.10-161 for external pilot and negative COM specifications.

Note 1) Refer to p.1.10-122 for AC.

How to Order Manifold Ass'y

Specify valve and option nos. below the manifold base no.

(Example)
Terminal box kit
VV5Q11-08C6T0 1 set—Manifold base No.
* VQ1100-5 2 sets—Valve No. (Stations 1 to 2)
* VQ1200-5 4 sets—Valve No. (Stations 3 to 6)
* VQ1300-5 1 set—Valve No. (Station 7)
* VVQ1000-10A-1 1 set—Blank plate No. (Station 8)

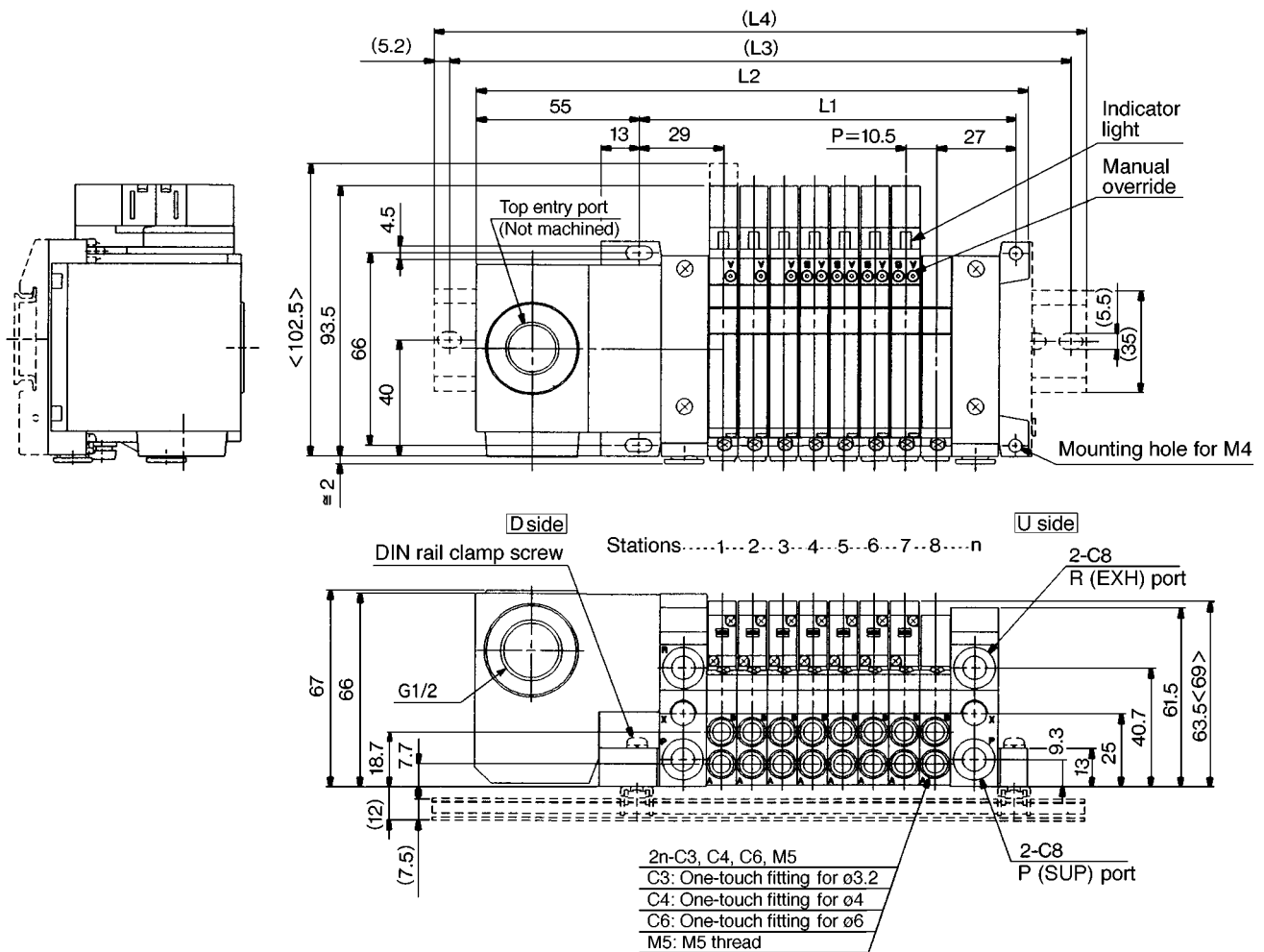
Add prefix "*" to parts nos. of the solenoid valves, etc.

Write sequentially from the 1st station on the D side. When part nos. written collectively are complicated, specify by using a manifold specification form.



VQ1000

The broken lines and dimensions in parentheses indicate DIN rail mounting style [-D].



< >: AC type and TÜV approved type

Dimensions (mm)

Equation L1=10.5n+45.5, L2=10.5n+105 n: Station (Max. 24)

L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1		66.5	77	87.5	98	108.5	119	129.5	140	150.5	161	171.5	182	192.5	203	213.5	224	234.5	245	255.5	266	276.5	287	297.5
L2		126	136.5	147	157.5	168	178.5	189	199.5	210	220.5	231	241.5	252	262.5	273	283.5	294	304.5	315	325.5	336	346.5	357
(L3)		150	162.5	175	187.5	187.5	200	212.5	225	237.5	250	262.5	262.5	275	287.5	300	312.5	325	325	337.5	350	362.5	375	387.5
(L4)		160.5	173	185.5	198	198	210.5	223	235.5	248	260.5	273	273	285.5	298	310.5	323	335.5	335.5	348	360.5	373	385.5	398

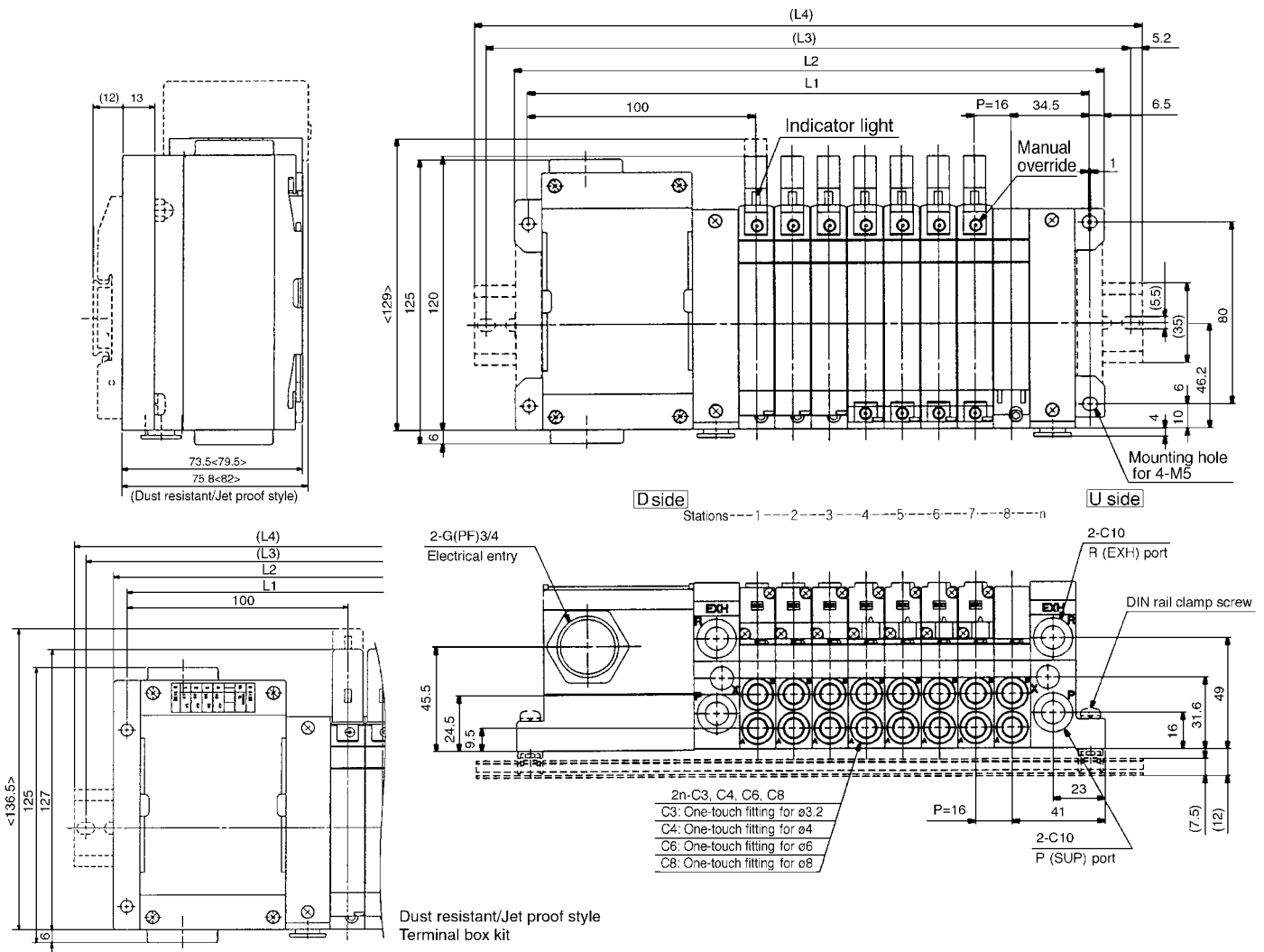
Vacuum ejector unit style: Equation L1=10.5n+29.7+(number of ejector units X 26.7)
L2=10.5n+88.8+(number of ejector units X 26.7)
L4 is L2 plus about 30.



- Manifold
- T kit...SV5Q11M, #6
- Valve
- 2 position single...SV5Q11V, #9
- 2 position double...SV5Q11V, #10
- 3 position...SV5Q11V, #10

VQ2000

The broken lines and dimensions in parentheses indicate DIN rail mounting style [-D].



< >: AC type and TÜV approved type

Dimensions (mm)

Equation L1=16n+118.5 L2=16n+131 n: Station (Max. 20)

L	n	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1		150.5	166.5	182.5	198.5	214.5	230.5	246.5	262.5	278.5	294.5	310.5	326.5	342.5	358.5	374.5	390.5	406.5	422.5	438.5
L2		163	179	195	211	227	243	259	275	291	307	323	339	355	371	387	403	419	435	451
(L3)		187.5	200	225	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375	400	412.5	425	450	462.5	475
(L4)		198	210.5	235.5	248	260.5	273	298	310.5	323	348	360.5	373	385.5	410.5	423	435.5	460.5	473	485.5

Vacuum ejector unit style: Equation L1=10.5n+29.7+(number of ejector unit X 26.7)

L2=10.5n+88.8+(number of ejector unit X 26.7)

L4 is L2 plus about 30.

- SY
- SYJ
- SX
- VK
- VZ
- VF
- VFR
- VP7
- VP4
- VQ**
- VQ4
- VQZ
- VQD
- VZS
- VFS
- VS
- VS7