


Serial Wiring 5 Port Solenoid Valve for EX510 Series *VQ1000/2000*



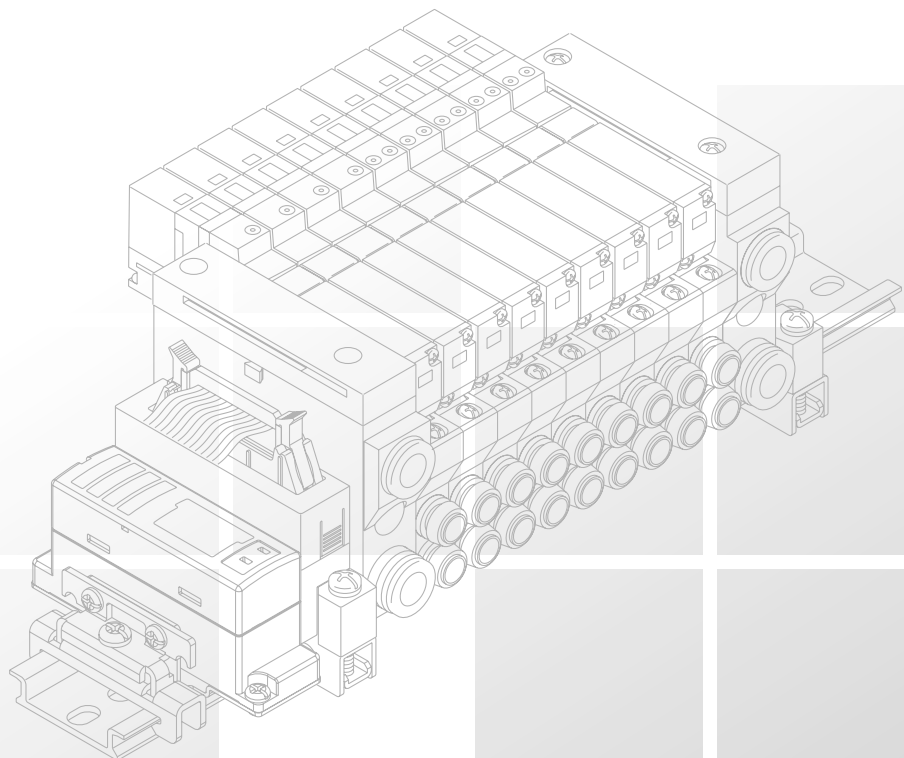
Manifold Variations

Series VQ

Series		A, B port size								Port piping
		Piping with one-touch fitting								
		Metric size				Inch size				
		ø3.2	ø4	ø6	ø8	ø1/8"	ø5/32"	ø1/4"	ø5/16"	
VQ1000		●	●	●		●	●	●		●
VQ2000			●	●	●		●	●	●	



Refer to SMC's "Best Pneumatics" catalogue for detailed specifications and precautions.



EX510 Serial Wiring Series VQ1000/2000 Base Mounted Plug-in Manifold

How to Order Manifold

VV5Q **1** 1-SB **08** **D** **Q**

Manifold series

1	VQ1000
2	VQ2000

SI unit COM.

-	+COM.
N	-COM.

Stations

Symbol	No. of stations
01	1 station
⋮	⋮
08	8 stations

Note) Maximum 16 stations (for special wiring specifications)

Option

-	None
B	With back pressure check valve ^{Note 2)}
G1	1 set of regulator unit ^{Note 3) Note 7)}
G2	2 sets of regulator unit ^{Note 3) Note 7)}
G3	3 sets of regulator unit ^{Note 3) Note 7)}
J□	With vacuum ejector unit ^{Note 4) Note 7)}
K	Special wiring specifications (Except double wiring) ^{Note 5)}
N	With name plate
R	External pilot ^{Note 6)}
S	Built-in silencer, direct exhaust



Note 1) When two or more symbols are specified, indicate them 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 using a manifold specification sheet.

Note 3) Specify the mounting position on a manifold specification sheet.

Note 4) For details, refer to SMC's "Best Pneumatics" catalogue. A combination of "J" and "N" is unavailable.

Note 5) Specify the wiring by using a manifold specification sheet.

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

Note 7) Applicable to the VQ1000 only.

Cylinder port

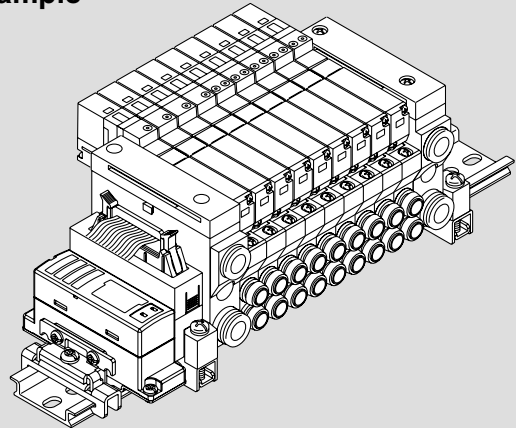
	Symbol	Port size	VQ1000	VQ2000
Metric size	C3	With one-touch fitting for ø3.2	○	
	C4	With one-touch fitting for ø4	○	○
	C6	With one-touch fitting for ø6	○	○
	C8	With one-touch fitting for ø8		○
	M5	M5 thread	○	
	CM	Mixed size/with port plug ^{Note)}	○	○
	L3	With elbow one-touch fitting ø3.2 for top piping	○	
	L4	With elbow one-touch fitting ø4 for top piping	○	○
	L6	With elbow one-touch fitting ø6 for top piping	○	○
	L8	With elbow one-touch fitting ø8 for top piping		○
	L5	Elbow M5 thread for top piping	○	
	B3	With elbow one-touch fitting ø3.2 for bottom piping	○	
	B4	With elbow one-touch fitting ø4 for bottom piping	○	○
	B6	With elbow one-touch fitting ø6 for bottom piping	○	○
	B8	With elbow one-touch fitting ø8 for bottom piping		○
	B5	Elbow M5 thread for bottom piping	○	
LM	Mixed size for elbow piping	○	○	
Inch size	N1	With one-touch fitting for ø1/8"	○	
	N3	With one-touch fitting for ø5/32"	○	○
	N7	With one-touch fitting for ø1/4"	○	○
	N9	With one-touch fitting for ø5/16"		○
	M5T	UNF10-32 thread	○	
	NM	Mixed size/with port plug ^{Note)}	○	○
	LN1	With elbow one-touch fitting ø1/8" for top piping	○	
	LN3	With elbow one-touch fitting ø5/32" for top piping	○	○
	LN7	With elbow one-touch fitting ø1/4" for top piping	○	○
	LN9	With elbow one-touch fitting ø5/16" for top piping		○
	L5T	Elbow UNF10-32 thread for top piping	○	
	BN1	With elbow one-touch fitting ø1/8" for bottom piping	○	
	BN3	With elbow one-touch fitting ø5/32" for bottom piping	○	○
	BN7	With elbow one-touch fitting ø1/4" for bottom piping	○	○
BN9	With elbow one-touch fitting ø5/16" for bottom piping		○	
B5T	Elbow UNF10-32 thread for bottom piping	○		
LNM	Mixed size for elbow piping	○	○	

Note) Specify "Mixed size/with port plug" on a manifold specification sheet.

DIN rail mounting

How to Order Valve Manifold Assembly (Example)

Example



VV5Q11-SB08C6-D ... 1 set (SB kit, 8 station manifold base part no.)

* VQ1100-5-Q 4 sets (Single solenoid part no.)

* VQ1200-5-Q 3 sets (Double solenoid part no.)

* VQ1300-5-Q 1 set (3 position type part no.)

→ The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

→ Enter in order starting from the first station on the D side.

Add the valve and option part number under the manifold base part number. In the case of a complex arrangement, specify them on a manifold specification sheet.

How to Order Valves

VQ **1** **1** **0** **0** **Y** - **5** **□** - **Q**

• **Series**

1	VQ1000
2	VQ2000

• **Type of actuation**

1	2 position single	
	2 position double	
2	Metal	
	Rubber	
3	3 position closed centre	
4	3 position exhaust centre	
5	3 position pressure centre	
Note) A	4 position dual 3 port valve (A)	
Note) B	4 position dual 3 port valve (B)	
Note) C	4 position dual 3 port valve (C)	



Note) Rubber seal type only.

• **Manual override**

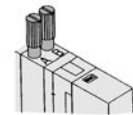
--: Non-locking push type (Tool required)



B: Locking type (Tool required)



C: Locking type (Manual)



• **Rated voltage**

5	24 VDC
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• **Function**

Symbol	Specifications
-	Standard
H	High pressure type (0.8 MPa)
Y	Low wattage type (0.5 W)
K	High pressure type (1 MPa) <small>Note 1)</small>
N	Negative COM
R	External pilot <small>Note 2)</small>

Note 1) Metal seal type only.

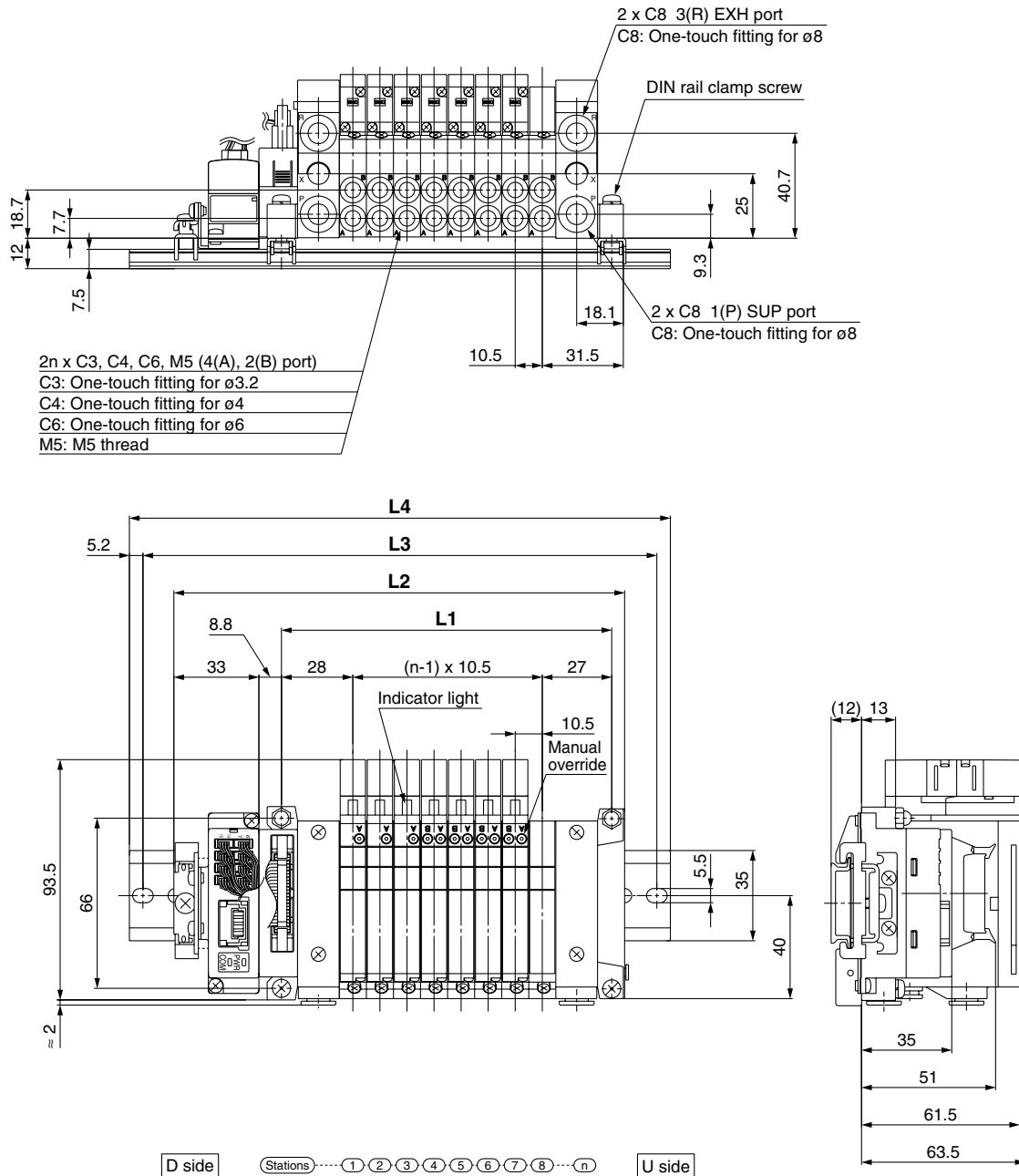
Note 2) Not applicable to dual 3 port.

• **Seal**

0	Metal seal
1	Rubber seal

Series VQ1000/2000

Dimensions: VQ1000



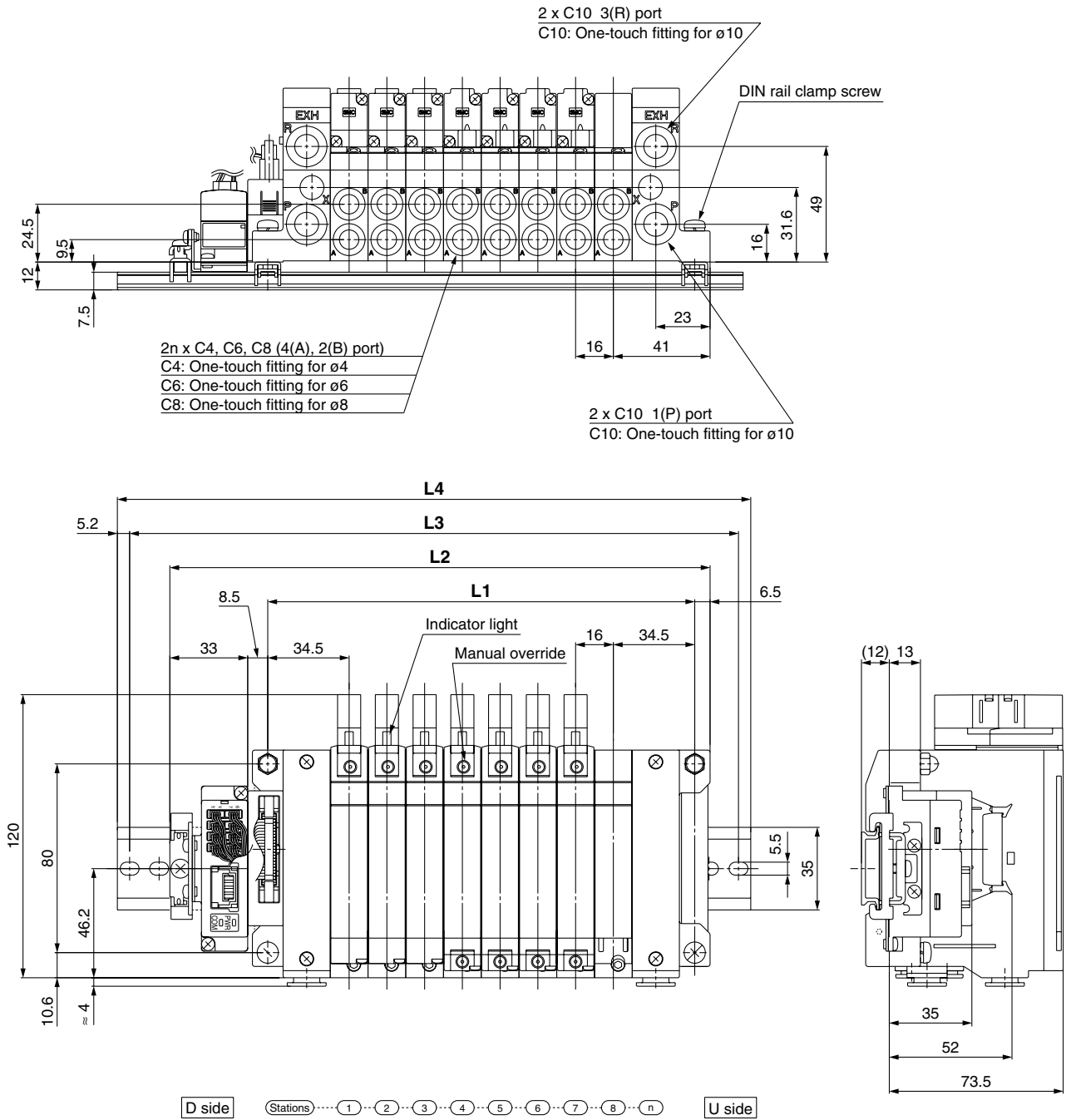
Dimensions

Formula L1 = 10.5n + 44.5, L2 = 10.5n + 91 n: Station (Maximum 16 stations)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55	65.5	76	86.5	97	107.5	118	128.5	139	149.5	160	170.5	181	191.5	202	212.5
L2	101.5	112	122.5	133	143.5	154	164.5	175	185.5	196	206.5	217	227.5	238	248.5	259
L3	125	137.5	150	162.5	175	175	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5
L4	135.5	148	160.5	173	185.5	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298

Base Mounted Plug-in Manifold *Series VQ1000/2000*

Dimensions: VQ2000



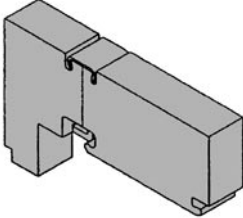
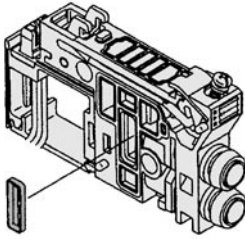
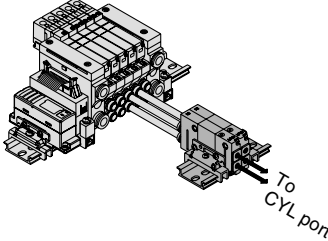
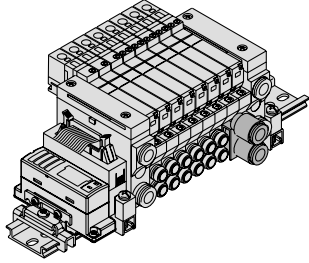
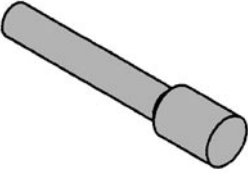
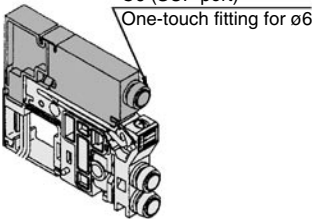
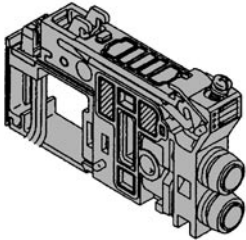
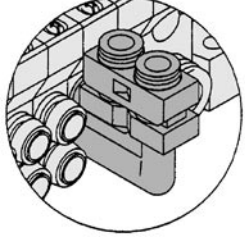
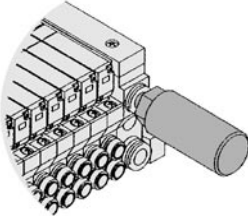
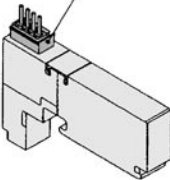
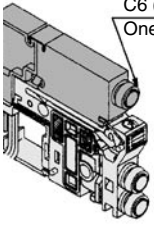
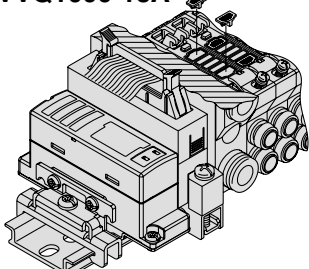
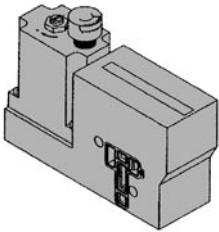
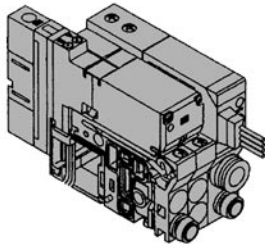
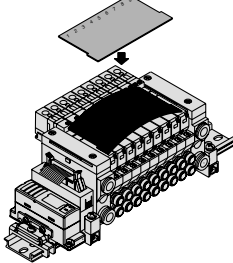
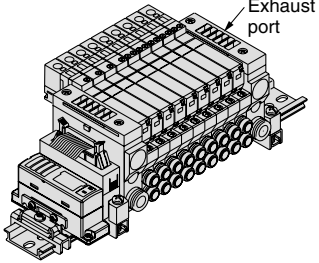
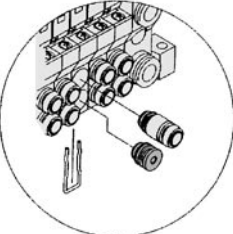

Dimensions

Formula $L1 = 16n + 53$, $L2 = 16n + 101$ n: Station (Maximum 16 stations)

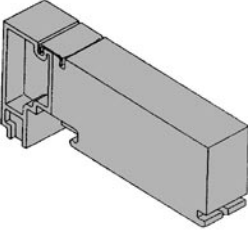
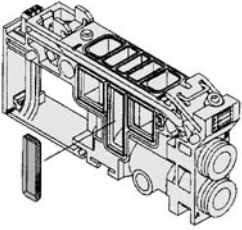
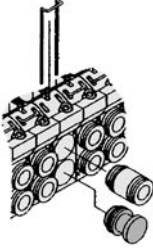
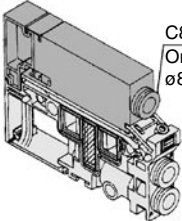
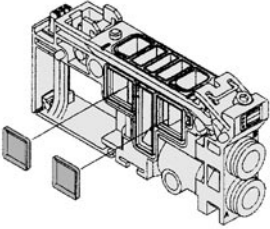
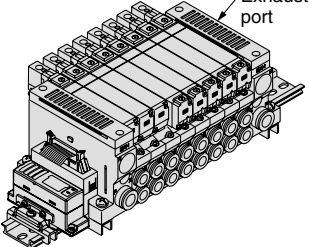
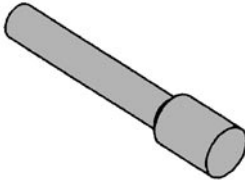
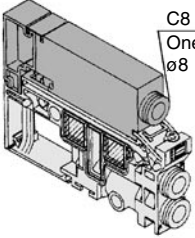
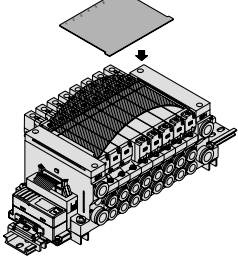
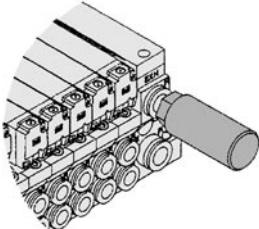
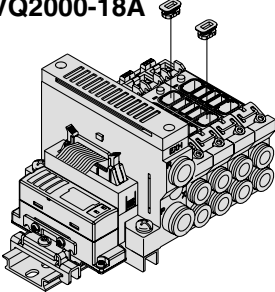
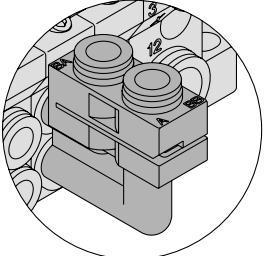
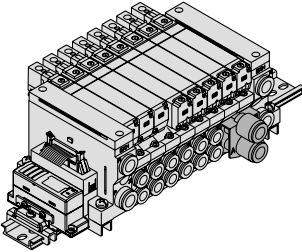
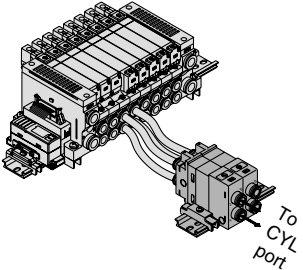

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	69	85	101	117	133	149	165	181	197	213	229	245	261	277	293	309
L2	117	133	149	165	181	197	213	229	245	261	277	293	309	325	341	357
L3	137.5	162.5	175	187.5	212.5	225	237.5	250	275	287.5	300	312.5	337.5	350	362.5	387.5
L4	148	173	185.5	198	223	235.5	248	260.5	285.5	298	310.5	323	348	360.5	373	398

Series VQ1000/2000

Manifold Options: VQ1000

<p>Blanking plate assembly VVQ1000-10A-1</p> 	<p>SUP block plate VVQ1000-16A</p> 	<p>Double check block VQ1000-FPG-□□</p>  <p>To CYL port</p>	<p>Dual flow fitting assembly VVQ1000-52A-C8</p> 
<p>Blanking plug KQ2P- 23 04 06 08</p> 	<p>Individual SUP spacer VVQ1000-P-1-C6</p>  <p>C6 (SUP port) One-touch fitting for ø6</p>	<p>EXH block base assembly VVQ1000-19A- F□ C3 P□ C4 L□ C6 M5</p> 	<p>Elbow fitting assembly VVQ1000-F-L C3 C4 C6 M5</p> 
<p>Silencer (For EXH port) AN200-KM8/AN203-KM8</p> 	<p>Blanking plate with connector VVQ1000-1C□-□</p>  <p>Connector assembly</p>	<p>Individual EXH spacer VVQ1000-R-1-C6</p>  <p>C6 (EXH port) One-touch fitting for ø6</p>	<p>Back pressure check valve assembly [-B] VVQ1000-18A</p> 
<p>Regulator unit VVQ1000-AR-1</p> 	<p>With vacuum ejector unit [-J□]</p> 	<p>Name plate [-N] VVQ1000-^N_{NC}-Station (1 to max. stations)</p> 	<p>Built-in silencer, direct exhaust [-S]</p>  <p>Exhaust port</p>
<p>Port plug VVQ0000-58A</p> 	<p></p> <ul style="list-style-type: none"> • For cylinder port fittings part no., refer to SMC's "Best Pneumatics" catalogue. • For replacement parts, refer to SMC's "Best Pneumatics" catalogue. 		

Manifold Options: VQ2000

<p>Blanking plate assembly VVQ2000-10A-1</p> 	<p>SUP block plate VVQ2000-16A</p> 	<p>Port plug VVQ1000-58A</p> 	<p>Individual SUP spacer VVQ2000-P-1-C8</p>  <p>C8 (SUP port) One-touch fitting for ø8</p>
<p>EXH block plate VVQ2000-19A</p> 	<p>Built-in silencer, direct exhaust [-S]</p>  <p>Exhaust port</p>	<p>Blanking plug KQ2P- 04 06 08 10</p> 	<p>Individual EXH spacer VVQ2000-R-1-C8</p>  <p>C8 (EXH port) One-touch fitting for ø8</p>
<p>Name plate [-N] VVQ2000-N-Station (1 to max. stations)</p> 	<p>Silencer (For EXH port) AN200-KM10</p> 	<p>Back pressure check valve assembly [-B] VVQ2000-18A</p> 	<p>Elbow fitting assembly VVQ2000-F-L (C4, C6, C8)</p> 
<p>Dual flow fitting assembly VVQ2000-52A-C10</p> 	<p>Double check block VQ2000-FPG-□□</p>  <p>To CYL port</p>	 <p>• For cylinder port fittings part no., refer to SMC's "Best Pneumatics" catalogue. • For replacement parts, refer to SMC's "Best Pneumatics" catalogue.</p>	



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