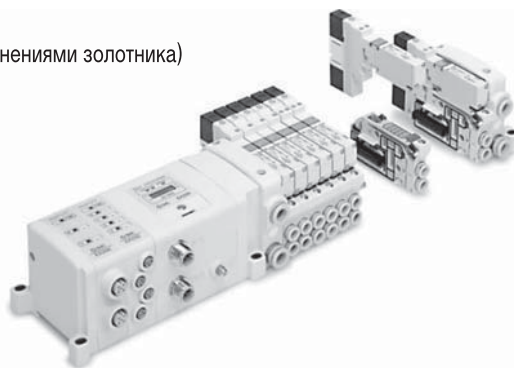


# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

- Исполнения с притертым стальным золотником и с эластичными уплотнениями золотника
- Простота сборки пневмораспределителей в блок благодаря многоконтактным разъемам на каждом модуле
- Возможность прямого использования в промышленных управляющих сетях (Profibus, DeviceNet, CANOpen, Asi)
- Высокая пропускная способность при компактной конструкции
- Ресурс более 200 млн. циклов (для исполнения со стальным золотником)
- Высокая скорость срабатывания (время реакции менее 10 мс)
- Наличие сдвоенных пневмораспределителей 2x3/2 (для VQC1000/2000 с эластичными уплотнениями золотника)

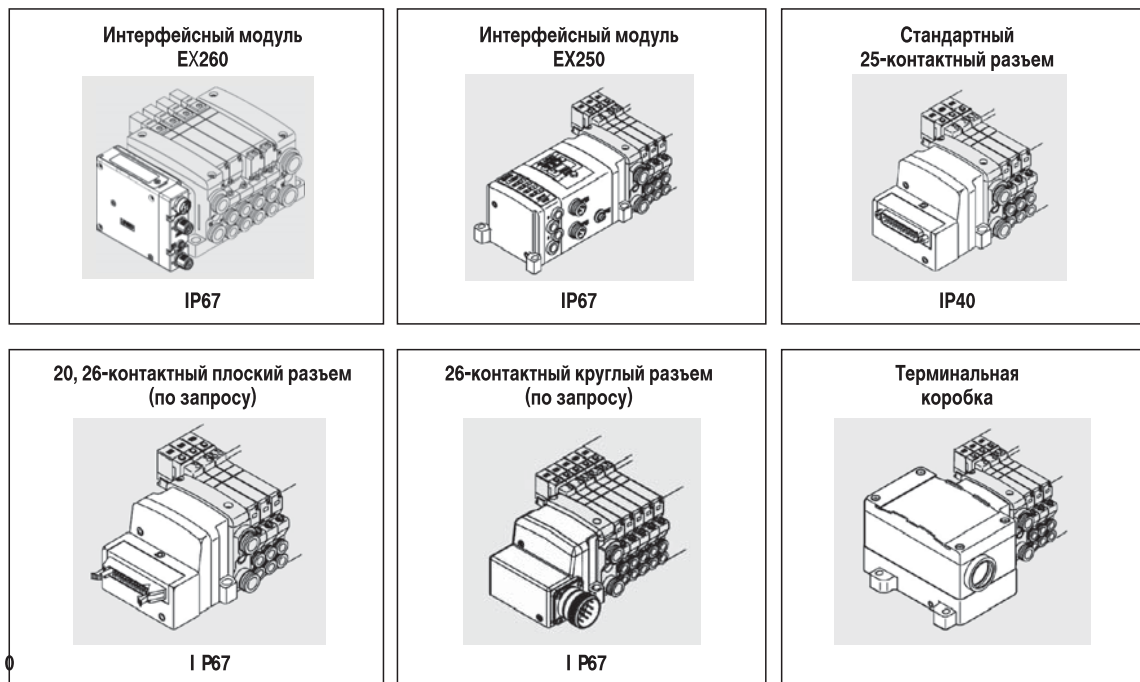
## Технические характеристики

Исполнение		С притертым стальным золотником	С эластичными уплотнениями золотника	
Среда		Очищенный сжатый воздух с содержанием масла или без него, инертный газ		
VQC 1000/2000	Макс. рабочее давление (МПа)	0.7		
	Мин. рабочее давление (МПа)	5/2 моностабильный	0.1	0.2
		5/2 бистабильный	0.1	
5/3	0.1	0.2		
VQC 4000	Макс. рабочее давление (МПа)	1.0		
	Мин. рабочее давление (МПа)	5/2 моностабильный	0.15	0.2
		5/2 бистабильный	0.15	
5/3	0.15	0.2		
Испытательное давление (МПа)		1.5		
Температура рабочей и окружающей среды (°C)		-10 ~ 50		
Вспомогательное ручное управление		С блокировкой		
Устойчивость к удару/вибрации (м/с <sup>2</sup> )		150/30 <sup>1)</sup>		
Степень защиты		IP67 <sup>2)</sup>		
Напряжение питания (В, DC)		24		
Допуск по напряжению		±10% от номинального значения		
Класс изоляции		V		
Искрогашение		Стандартное исполнение		
Индикатор рабочего состояния		Стандартное исполнение		



- 1) Условия испытаний: вибрация с частотой от 8.3 до 2000 Гц в осевом и перпендикулярном направлениях, во включенных и выключенном состояниях; однократный удар в осевом и перпендикулярном направлениях, во включенном и выключенном состояниях.
- 2) Для исполнений с терминальной коробкой и интерфейсными модулями EX500/250/260.

## Варианты электрического подключения



# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Номера для заказа

		Для VQC1000					Для VQC2000				
Принцип действия	Условное обозначение	Конструктивное исполнение	Номер для заказа	Расход (норм. л/мин)	Время реакции (мс) *	Вес (г)	Номер для заказа	Расход (норм. л/мин)	Время реакции (мс) *	Вес (г)	
5/2	Моно-стабильный		Стальной золотник	VQC1100N-5B	160	12	64	VQC2100N-5B	451	22	90
			Золотник с эластичными уплотнениями	VQC1101N-5B	210	15		VQC2101N-5B	540	24	
5/2	Би-стабильный		Стальной золотник	VQC1200N-5B	160	10	78	VQC2200N-5B	451	15	110
			Золотник с эластичными уплотнениями	VQC1201N-5B	210	15		VQC2201N-5B	540	20	
5/3	Закрытый центр		Стальной золотник	VQC1300N-5B	160	20		VQC2300N-5B	451	29	
			Золотник с эластичными уплотнениями	VQC1301N-5B		25		VQC2301N-5B	481	34	
	Открытый центр		Стальной золотник	VQC1400N-5B		20		VQC2400N-5B	451	29	
			Золотник с эластичными уплотнениями	VQC1401N-5B		25		VQC2401N-5B	481	34	
	Центр под давлением		Стальной золотник	VQC1500N-5B	210	20		VQC2500N-5B	560	29	
			Золотник с эластичными уплотнениями	VQC1501N-5B		25		VQC2501N-5B	785	34	
2x3/2	Н.З./Н.З.		Золотник с эластичными уплотнениями	VQC1A01N-5B	160	25		VQC2A01N-5B	451	34	
	Н.О./Н.О.		VQC1B01N-5B	VQC2B01N-5B							
	Н.З./Н.О.		VQC1C01N-5B	VQC2C01N-5B							

### Для VQC4000

\* При давлении 0.5 МПа

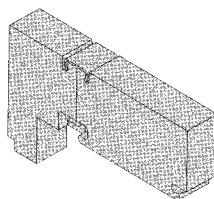
Принцип действия	Условное обозначение	Конструктивное исполнение	Номер для заказа	Расход (норм. л/мин)	Время реакции (мс) *	Вес (г)
5/2	Моностабильный	Стальной золотник	VQC4100-5B	1472	20	230
		Золотник с эластичными уплотнениями	VQC4101-5B	2061	25	
5/2	Бистабильный	Стальной золотник	VQC4200-5B	1472	12	260
		Золотник с эластичными уплотнениями	VQC4201-5B	2061	15	
5/3	Закрытый центр	Стальной золотник	VQC4300-5B	1472	45	280
		Золотник с эластичными уплотнениями	VQC4301-5B	1865	50	
	Открытый центр	Стальной золотник	VQC4400-5B	1472	45	
		Золотник с эластичными уплотнениями	VQC4401-5B	1865	50	
	Центр под давлением	Стальной золотник	VQC4500-5B	1865	45	
		Золотник с эластичными уплотнениями	VQC4501-5B		50	

## Принадлежности / Номера для заказа

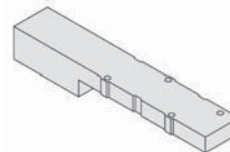
### Крышка

Серия	Номер для заказа
VQC1000	VVQ1000-10A-1
VQC2000	VVQ2000-10A-1
VQC4000	VVQ4000-10A-1

Используется как заглушка, устанавливаемая на монтажную плиту вместо отсутствующего пневмораспределителя.



VVQ1000/2000

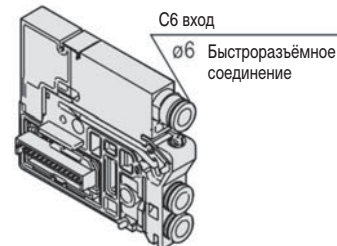
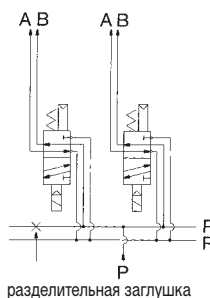


VVQ4000

### Индивидуальный подвод P

Серия	Присоединение	Номер для заказа
VQC1000	C6	VVQ1000-P-1-C6
VQC2000	C8	VVQ2000-P-1-C8
VQC4000	Rc 1/4	VVQ4000-P-1-02
	Rc 3/8	VVQ4000-P-1-03

Используется в комбинации с разделительной заглушкой, когда требуется подавать различные давления на пневмораспределители, собранные в блок.



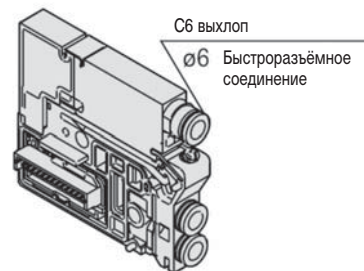
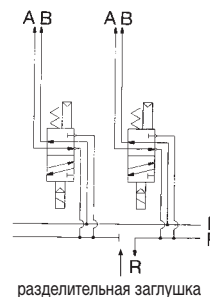
C6 вход

∅6 Быстроразъёмное соединение

### Индивидуальный выпуск

Серия	Присоединение	Номер для заказа
VQC1000	C6	VVQ1000-R-1-C6
VQC2000	C8	VVQ2000-R-1-C8
VQC4000	Rc 1/4	VVQ4000-R-1-02
	Rc 3/8	VVQ4000-R-1-03

Если деаэрация какого-либо пневмораспределителя неблагоприятно влияет на работу других пневмораспределителей, следует использовать модуль индивидуального выпуска.



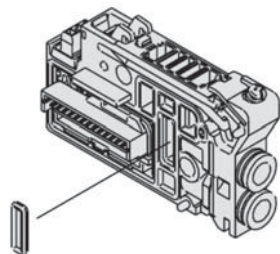
C6 выхлоп

∅6 Быстроразъёмное соединение

### Разделительная заглушка для изоляции канала P

Серия	Номер для заказа
VQC1000	VVQ1000-16A
VQC2000	VVQ2000-16A
VQC4000	VVQ4000-16A

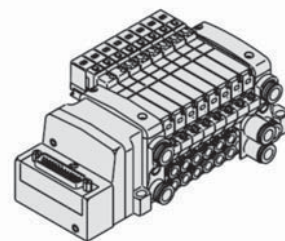
Используется для разделения каналов подачи воздуха, чтобы обеспечить возможность работы одного блока пневмораспределителей с двумя различными давлениями.



### Фитинг для соединения двух модулей

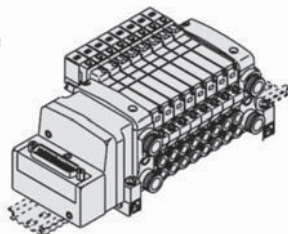
Серия	Номер для заказа
VQC1000	VVQ1000-52A-C8
VQC2000	VVQ2000-52A-C10

Используется для параллельного соединения двух соседних пневмораспределителей с целью увеличения расхода. Применяются быстроразъёмные соединения.



### Комплект для монтажа на DIN-рейке

Серия	Номер для заказа
VQC1000	VVQ1000-57A
VQC2000	VVQ2000-57A

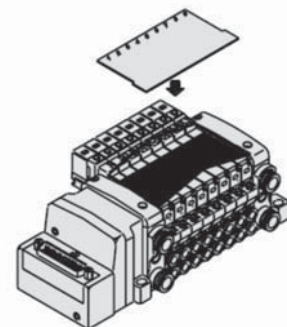


### Маркировочная пластина

Серия	Номер для заказа*
VQC1000	VVQ1000-N-□
VQC2000	VVQ2000-N-□

\* □ – количество секций.

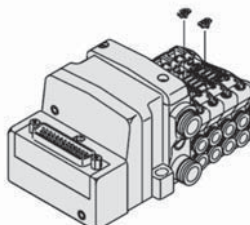
Используется для маркировки пневмораспределителей в блоке.



### Обратные клапаны

Серия	Номер для заказа
VQC1000	VVQ1000-18A
VQC2000	VVQ2000-18A

Предотвращают перемещение штока пневмоцилиндра, вызванное деаэрационным давлением других пневмораспределителей. Устанавливаются в канале выхлопа (R). Используются в 5/3 пневмораспределителях с открытым центром.

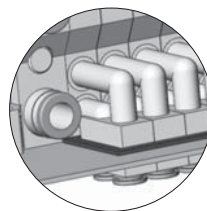
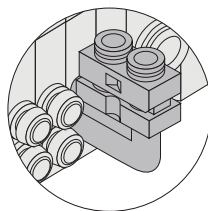


# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Принадлежности / Номера для заказа

### Соединение угловое

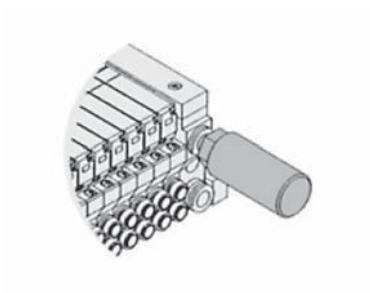
Серия	Присоединит. размер	Номер для заказа
VQC1000	∅3.2	VVQ1000-F-LC3
	∅4	VVQ1000-F-LC4
	∅6	VVQ1000-F-LC6
	M5	VVQ1000-F-LM5
VQC2000	∅4	VVQ2000-F-LC4
	∅6	VVQ2000-F-LC6
	∅8	VVQ2000-F-LC8



Обеспечивает присоединение трубок под углом 90° к оси выходных портов пневмораспределителя.

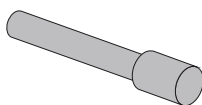
### Пневмоглушитель

Серия	Номер для заказа
VQC1000	AN200-KM8
VQC2000	AN200-KM10
VQC4000	ANA1-06



### Заглушка

Серия	Присоединит. размер (мм)	Номер для заказа
VQC1000	∅3.2	KQ2P-23
VQC2000	∅4	KQ2P-04
	∅6	KQ2P-06
	∅8	KQ2P-08



Используется для закрытия неиспользуемых портов А и В.

### Интерфейсный регулятор

Применяется для пневмораспределителей серии VQC4000.

Регулирует подачу воздуха на пневмораспределитель, обеспечивая заданный уровень давления:

- на входе (тип P),
- на выходе А (тип А),
- на выходе В (тип В).

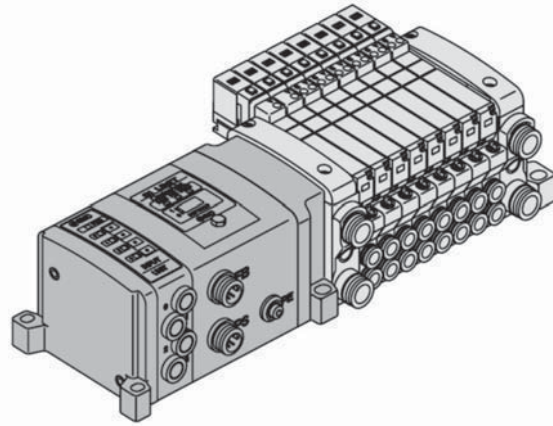
Тип	P	A	B
Схема			
Номер для заказа	ARBQ4000-00-P-1	ARBQ4000-00-A-1	ARBQ4000-00-B-1



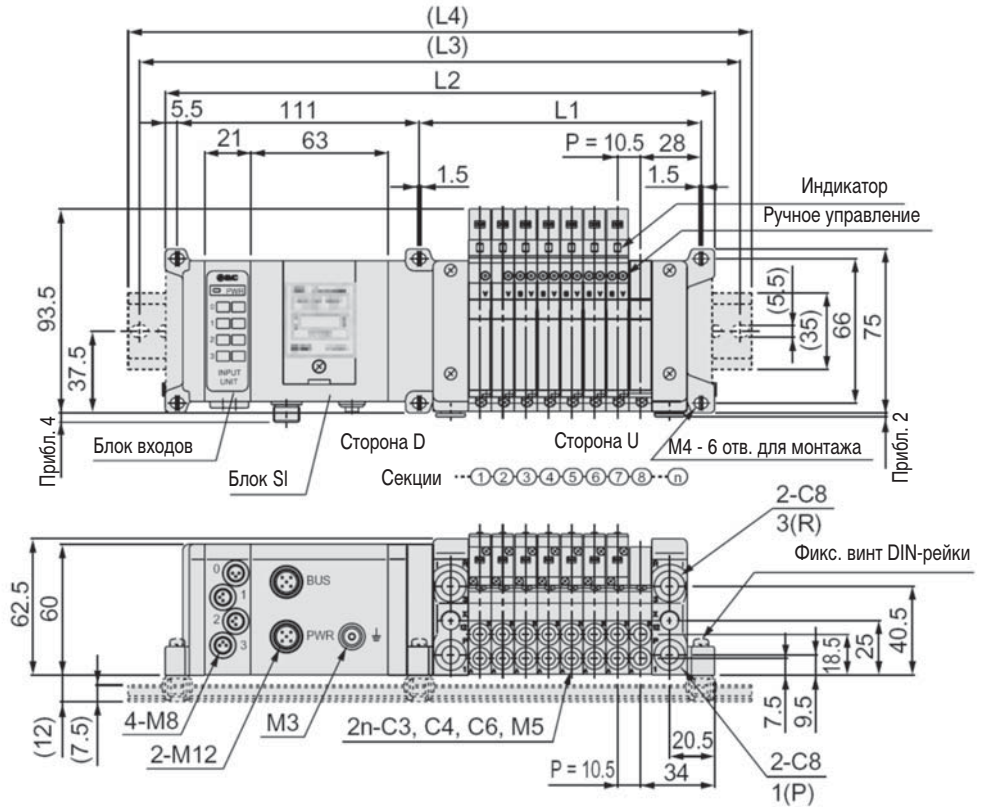
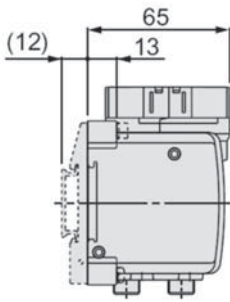
## Блок пневмораспределителей (IP67)

VQC1000/2000/4000

Тип электрического подключения – интерфейсный модуль EX250



VV5QC11



Расчетная формула:  $L1 = 10.5n + 45$ ,

$L2 = 10.5n + 167.5$

(для одного блока входов; каждый дополнительный блок входов увеличивает размер на 21 мм)

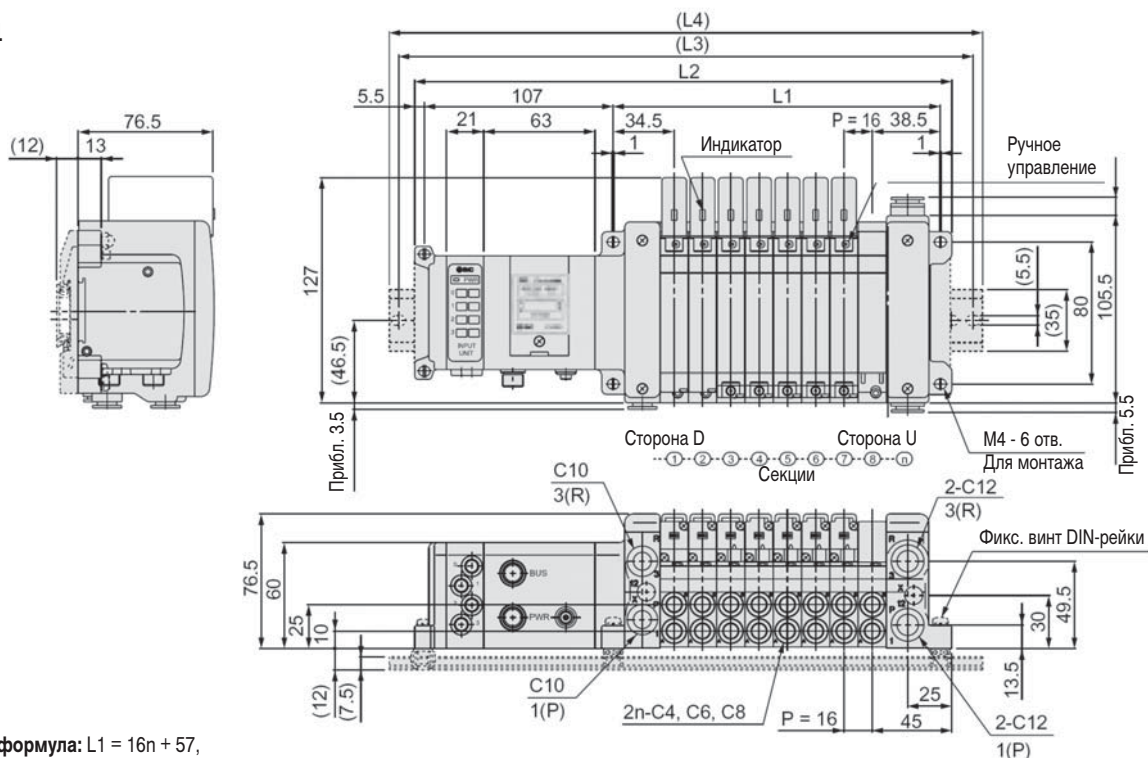
n: количество секций (максимум 24)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L2	178	188.5	199	209.5	220	230.5	241	251.5	262	272.5	283	293.5	304	314.5	325	335.5	346	356.5	367	377.5	388	398.5	409	419.5
L3	200	212.5	225	237.5	250	262.5	275	287.5	300	312.5	325	325	337.5	350	362.5	375	387.5	387.5	400	412.5	425	437.5	450	450
L4	210.5	223	235.5	248	260.5	260.5	273	285.5	298	310.2	323	335.5	335.5	348	360.5	373	385.5	398	398	410.5	423	435.5	448	448

# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Размеры

### VV5QC21



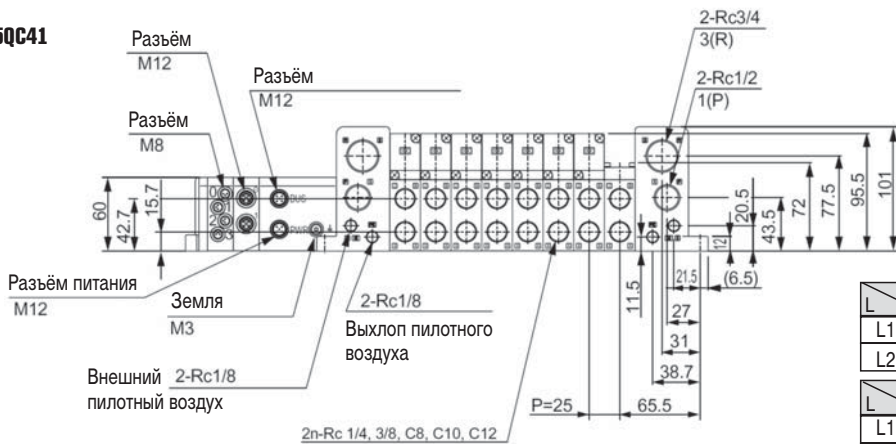
Расчетная формула:  $L1 = 16n + 57$ ,  
 $L2 = 16.5n + 176$

(для одного блока входов; каждый дополнительный блок входов увеличивает размер на 21 мм)

n: количество секций (максимум 24)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	192.5	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464	480	496	512	528	544	560
L3	212.5	237.5	250	262.5	275	287.5	312.5	325	337.5	362.5	375	387.5	400	425	437.5	450	462.5	487.5	500	512.5	537.5	550	562.5	587.5
L4	223	248	260.5	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	598

### VV5QC41



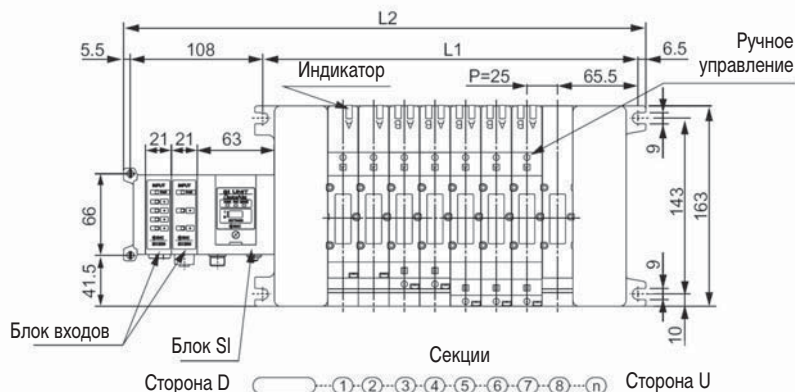
Расчетная формула:

$L1 = 25n + 106$  (максимум 16 секций).

$L2$ : Для одного блока входов; каждый дополнительный блок входов увеличивает размер на 21 мм.

L \ n	1	2	3	4	5	6	7	8
L1	131	156	181	206	231	256	281	306
L2	230	255	280	305	330	355	380	405

L \ n	9	10	11	12	13	14	15	16
L1	331	356	381	406	431	456	481	506
L2	430	455	480	505	530	555	580	605

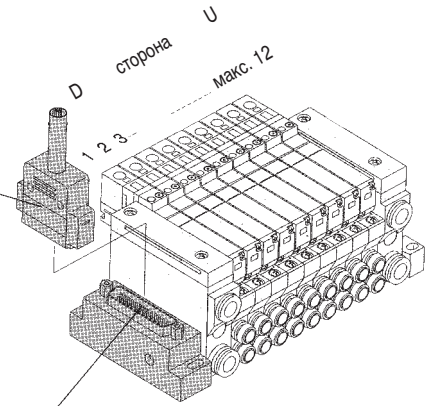


## Блок пневмораспределителей (IP40)

### VQC1000/2000/4000

Тип электрического подключения – 25-контактный разъем

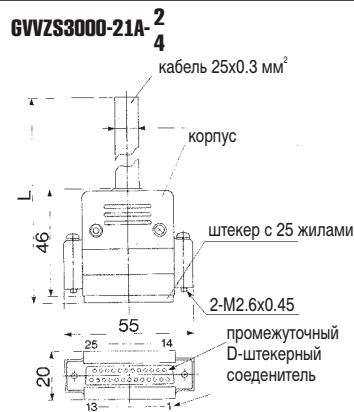
- Центральное подключение блока пневмораспределителей посредством разъема по DIN.
- Штекерное соединение по стандарту MIL (25-контактный).
- Макс. 12 пневмораспределителей с двусторонним управлением.
- Мин. возможный радиус изгиба 55 мм.



### Ответная часть разъема с кабелем

№ контакта	Цветовой код по DIN47100	
	Основной цвет жилы	Маркировка жилы
1	белый	-
2	коричневый	-
3	зеленый	-
4	желтый	-
5	серый	-
6	розовый	-
7	синий	-
8	красный	-
9	черный	-
10	фиолетовый	-
11	серый	розовая
12	красный	синяя
13	белый	зеленая
14	коричневый	зеленая
15	белый	желтая
16	желтый	коричневая
17	белый	серая
18	серый	коричневая
19	белый	розовая
20	розовый	коричневая
21	белый	синяя
22	коричневый	синяя
23	белый	красная
24	коричневый	красная
25	белый	черная

### Ответная часть разъема



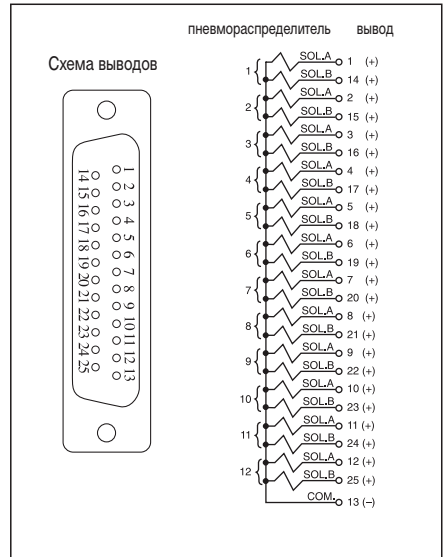
### Обозначение длины L

Номер для заказа	Длина L
GVVZS3000-21A-2	3м
GVVZS3000-21A-3	5м
GVVZS3000-21A-4	8м

### Электрические свойства

Позиция	Свойства
Сопротивление проводника	~57 (Ом/км 20° C)
Прочность на пробой по VDE 0472	1500 В свыше 5 мм
Сопротивление изоляции	20 МОм

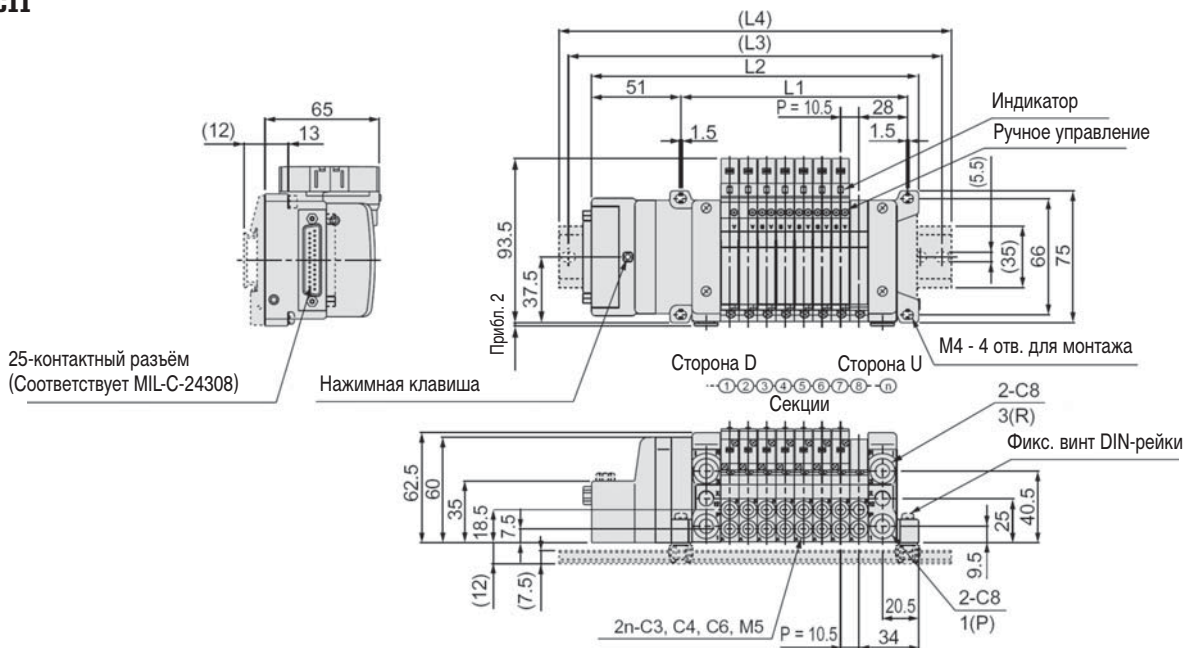
### Разъем 25-контактный



# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Размеры

### VV5QC11

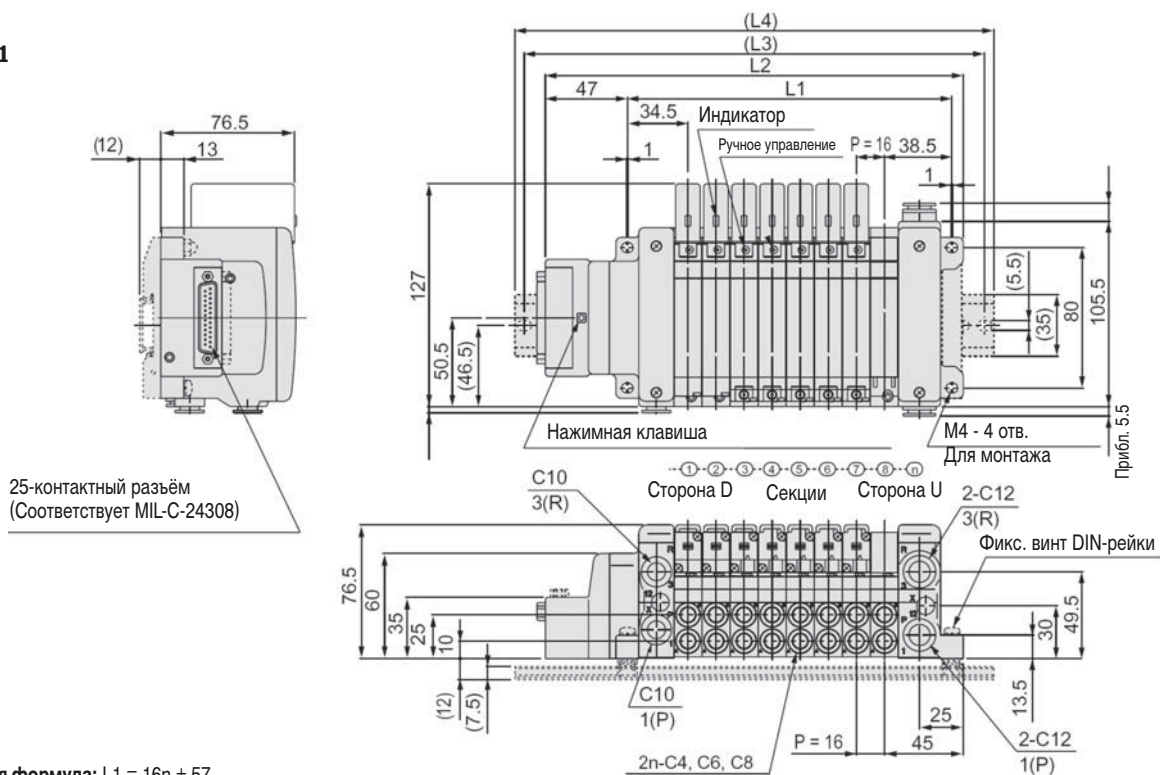


Расчетная формула:  $L1 = 10.5n + 45$ ,  
 $L2 = 10.5n + 102$

n: количество секций (максимум 24)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L2	112.5	123	133.5	144	154.5	165	175.5	186	196.5	207	217.5	228	238.5	249	259.5	270	280.5	291	301.5	312	322.5	333	343.5	354
L3	137.5	150	162.5	175	175	187.5	200	212.5	225	237.5	237.5	250	262.5	275	287.5	300	300	312.5	325	337.5	350	362.5	375	375
L4	148	160.5	173	185.5	185.5	198	210.5	223	235.5	248	248	260.5	273	285.5	298	310.5	310.5	323	335.5	348	360.5	373	385.5	385.5

### VV5QC21



Расчетная формула:  $L1 = 16n + 57$ ,  
 $L2 = 16n + 110.5$

n: количество секций (максимум 24)

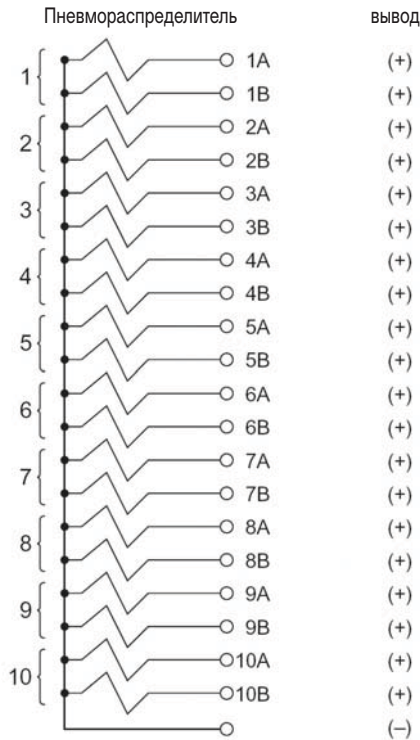
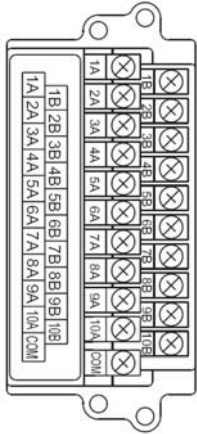
L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	126.5	142.5	158.5	174.5	190.5	206.5	222.5	238.5	254.5	270.5	286.5	302.5	318.5	334.5	350.5	366.5	382.5	398.5	414.5	430.5	446.5	462.5	478.5	494.5
L3	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	425	437.5	450	475	487.5	500	525
L4	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	535.5



### Блок пневмораспределителей (IP67)

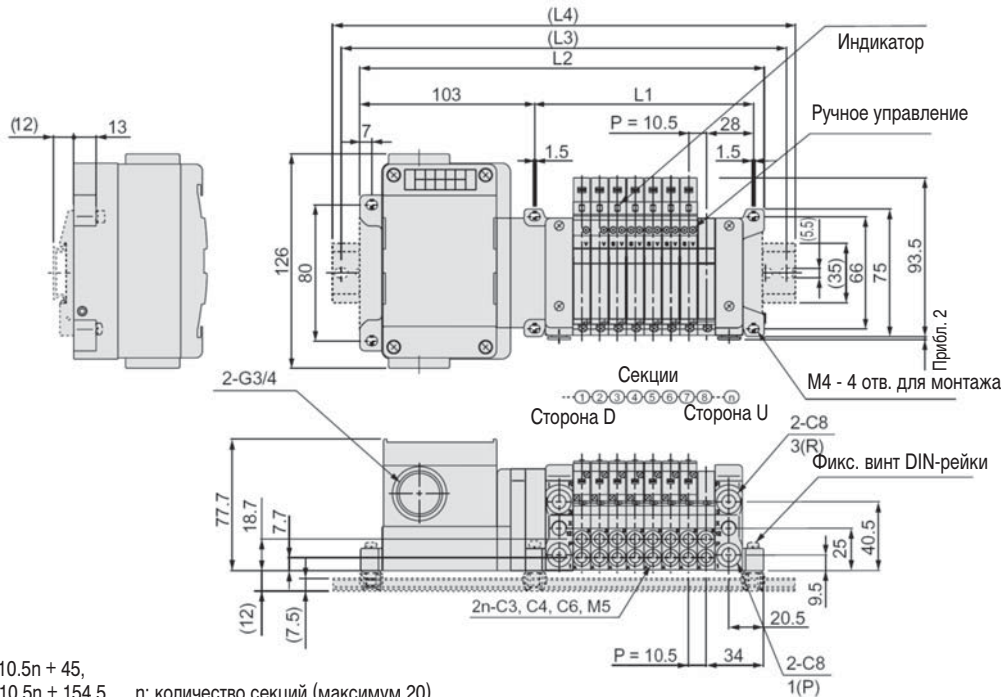
VQC1000/2000/4000

Тип электрического подключения – терминальная коробка



### Размеры

VV5QC11



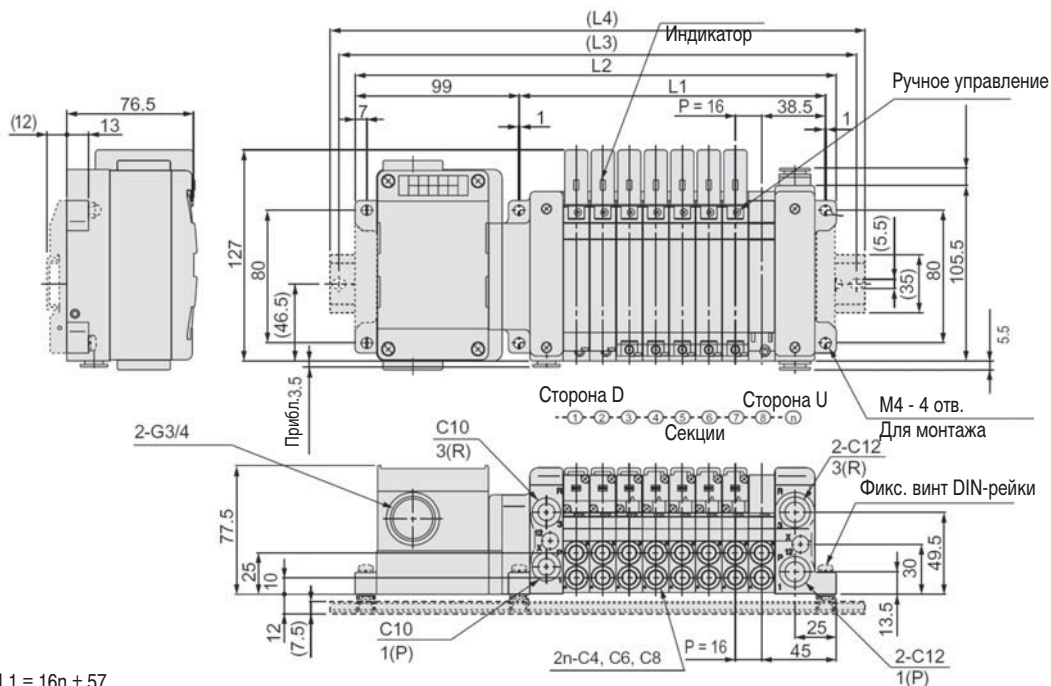
Расчетная формула:  $L1 = 10.5n + 45$ ,  
 $L2 = 10.5n + 154.5$  n: количество секций (максимум 20)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255
L2	165	175.5	186	196.5	207	217.5	228	238.5	249	259.5	270	280.5	291	301.5	312	322.5	333	343.5	354	364.5
L3	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5	350	362.5	375	387.5
L4	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348	360.5	373	385.5	398

# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Размеры

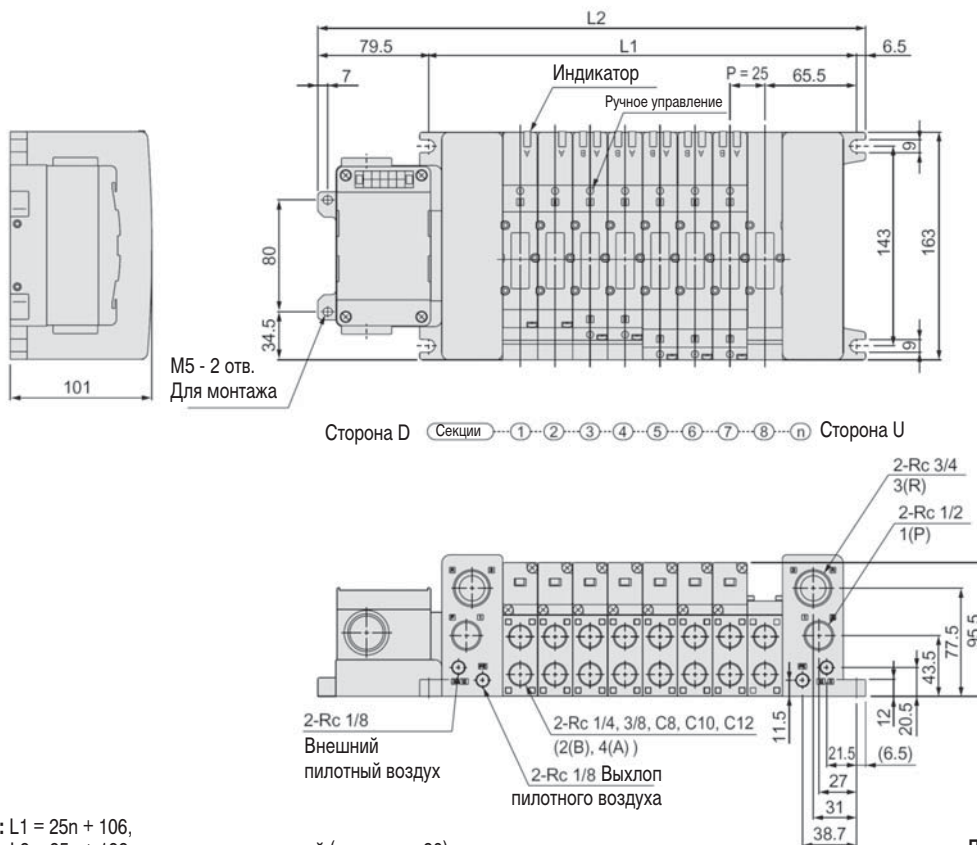
### VV5QC21



Расчетная формула:  $L1 = 16n + 57$ ,  
 $L2 = 16n + 163$  n: количество секций (максимум 20)

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377
L2	179	195	211	227	243	259	275	291	307	323	339	355	371	387	403	419	435	451	467	483
L3	200	212.5	237.5	237.5	262.5	262.5	287.5	312.5	325	371	362.5	375	408.5	412.5	425	437.5	462.5	496	487.5	500
L4	210.5	223	248	248	273	273	298	323	335.5	360.5	373	385.5	398	423	435.5	448	473	485.5	498	510.5

### VV5QC41



Расчетная формула:  $L1 = 25n + 106$ ,  
 $L2 = 25n + 192$  n: количество секций (максимум 20)

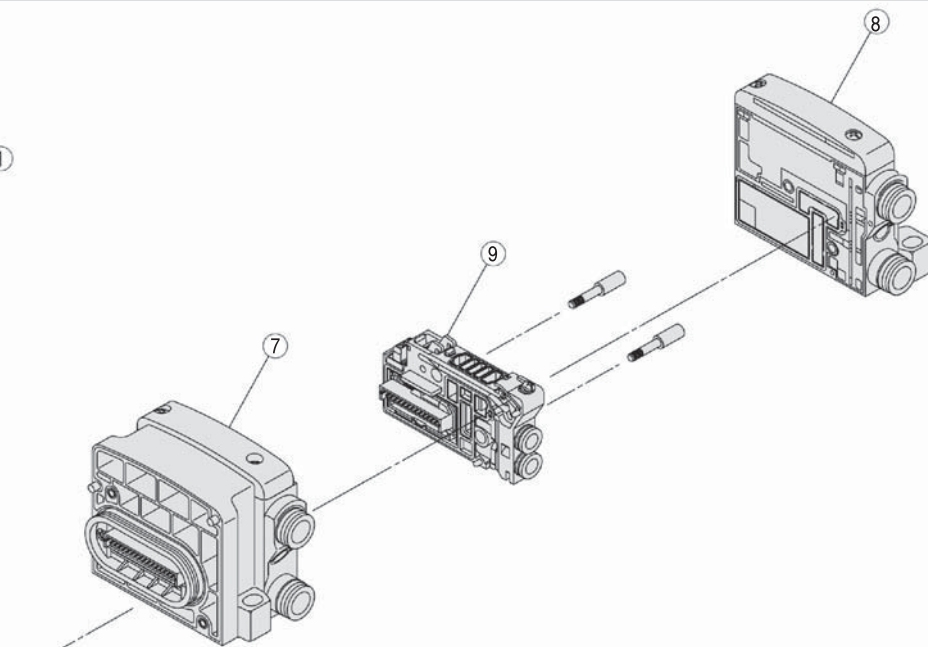
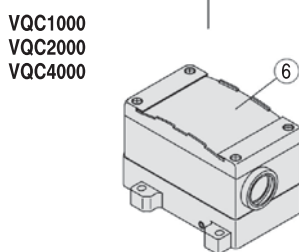
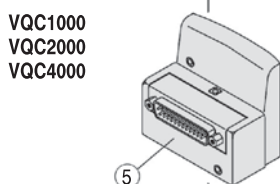
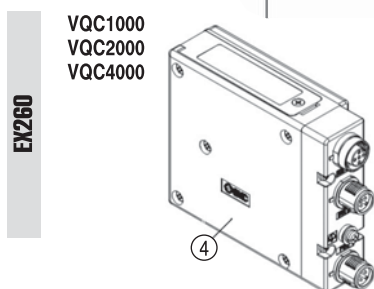
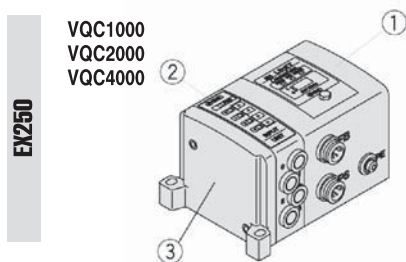
L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	131	156	181	206	231	256	281	306	331	356	381	406	431	456	481	506	531	556	581	606
L2	217	242	267	292	317	342	367	392	417	442	467	492	517	542	567	592	617	642	667	692

**Примечание:**  
 для обеспечения степени защиты IP67 следует применять кабельный ввод FGA26S-14G (по запросу).

# 5/2, 5/3, 2x3/2 пневмораспределители с электропневматическим управлением VQC1000/2000/4000

## Блок пневмораспределителей

### Спецификация



№	Название	Номер для заказа	Примечание		
1	Интерфейсный модуль EX250	EX250-SDN1	DeviceNet (-COM)		
		EX250-SPR1	PROFIBUS DP (-COM)		
		EX250-SCA1A	CANOpen (-COM)		
		EX250-SAS3	AS-I (-COM)	8 входов/8 выходов	Система с двумя подводами питания
		EX250-SAS5	4 входа/4 выхода		
		EX250-SAS7	8 входов/8 выходов	Система с одним подводом питания	
		EX250-SAS9	4 входа/4 выхода		
		EX250-SCN1	ControlNet (-COM)		
		EX250-SEN1	EtherNet/IP (-COM)		
		2	Модуль входов	EX250-IE1	M12, 2 входа
EX250-IE2	M12, 4 входа				
EX250-IE3	M8, 4 входа				
3	Концевая плата	EX250-EA1	Стандартная		
		EX250-EA2	Монтаж на DIN-рейке		
4	Компактный интерфейс модуль EX260	EX260-SDN1	DeviceNet (-COM)	32 выхода (PNP)	M12
		EX260-SDN2		32 выхода (NPN)	
		EX260-SDN3		16 выходов (PNP)	
		EX260-SDN4		16 выходов (NPN)	
		EX260-SPR1	PROFIBUS DP	32 выхода (PNP)	25-контактный разъем (D-sub)
		EX260-SPR2		32 выхода (NPN)	
		EX260-SPR3		16 выходов (PNP)	
		EX260-SPR4		16 выходов (NPN)	
		EX260-SPR5		32 выхода (PNP)	
		EX260-SPR6		32 выхода (NPN)	
		EX260-SPR7		16 выходов (PNP)	
		EX260-SPR8		16 выходов (NPN)	
		EX260-SEC1	EtherCAT	32 выхода (PNP)	M12
		EX260-SEC2		32 выхода (NPN)	
		EX260-SEC3		16 выходов (PNP)	
		EX260-SEC4		16 выходов (NPN)	
5	25-контактный разъем (D-sub)	VVQC1000-F25-1	IP40		
6	Терминальная коробка	VVQC1000-T0-1	IP67 (с кабельным вводом FGA26S-14G)		

Примечание: разъемы для подключения интерфейсных модулей поставляются по запросу

7	Концевая плата левая
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#### VQC1000/2000

Серия	Номер для заказа	Присоединение *
VQC1000	VVQC1000-3A-1-C8	C8
VQC2000	VVQC2000-3A-1-C10	C10

\* "C" быстроразъемное соединение, например: "C8" – ø8 мм

#### VQC4000

Тип электр. подвода	Номер для заказа
Интерфейсный модуль, 25-контактный разъем, терминальная коробка	VVQC4000-3A-2F

## Блок пневмораспределителей

8. Концевая плита правая

### VQC1000/2000/4000

Серия	Номер для заказа	Присоединение *	Расположение канала подвода/отвода воздуха
VQC1000	VVQC1000-2A-1-C8	C8	Спереди
VQC2000	VVQC2000-2A-1-C10	C10	Спереди
	VVQC2000-2A-2-C10		Спереди и сзади
	VVQC2000-2A-2-C12	C12	
VQC4000	VVQC4000-2A-1F	P: G1/2, R: G3/4	Спереди

\* "С" быстроразъемное соединение, например: "С8" –  $\varnothing 8$  мм

9. Индивидуальная плита пневмораспределителя

Серия	Номер для заказа	Тип	Присоединение *
VQC1000	VVQC1000-1A-D-C3	Для бистабильного пневмораспределителя	C3
	VVQC1000-1A-D-C4		C4
	VVQC1000-1A-D-C6		C6
	VVQC1000-1A-D-M5		M5
	VVQC1000-1A-S-C3	Для 5/2 моностабильного пневмораспределителя	C3
	VVQC1000-1A-S-C4		C4
	VVQC1000-1A-S-C6		C6
	VVQC1000-1A-S-M5		M5
VQC2000	VVQC2000-1A-D-C4	Для бистабильного пневмораспределителя	C4
	VVQC2000-1A-D-C6		C6
	VVQC2000-1A-D-C8		C8
	VVQC2000-1A-S-C4	Для 5/2 моностабильного пневмораспределителя	C4
	VVQC2000-1A-S-C6		C6
	VVQC2000-1A-S-C8		C8
VQC4000	VVQC4000-1A-D-C8	Для бистабильного пневмораспределителя	C8
	VVQC4000-1A-D-C10		C10
	VVQC4000-1A-D-C12		C12
	VVQC4000-1A-D-02F		G 1/4"
	VVQC4000-1A-D-03F		G 3/8"
	VVQC4000-1A-D-BF		G 1/4" порт снизу
	VVQC4000-1A-S-C8		Для 5/2 моностабильного пневмораспределителя
	VVQC4000-1A-S-C10	C10	
	VVQC4000-1A-S-C12	C12	
	VVQC4000-1A-S-02F	G 1/4"	
	VVQC4000-1A-S-03F	G 3/8"	
	VVQC4000-1A-S-BF	G 1/4" порт снизу	

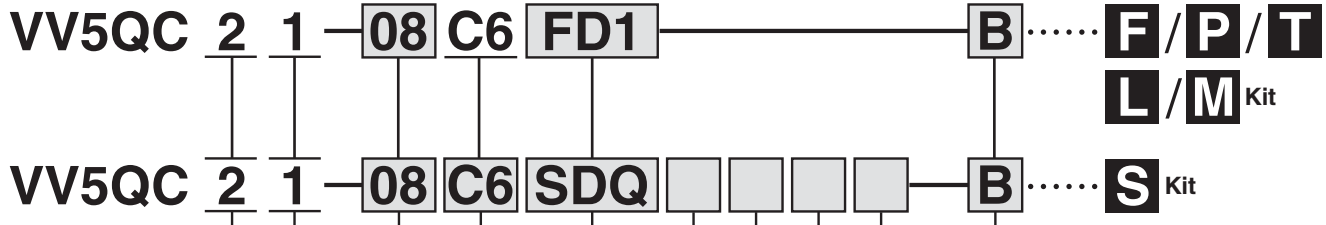
\* "С" быстроразъемное соединение, например: "С8" –  $\varnothing 8$  мм



# Series VQC2000

## Base Mounted Plug-in Unit

### How to Order Manifold



**Series**  
2 VQC2000

**Manifold model**  
1 Plug-in unit

**Stations**  
01 1 station  
: :  
The maximum number of stations differs depending on the electrical entry.

**Cylinder port size**

C4	With ø4 One-touch fitting
C6	With ø6 One-touch fitting
C8	With ø8 One-touch fitting
CM	Mixed sizes and with port plug
L4	Top ported elbow With ø4 One-touch fitting
L6	Top ported elbow With ø6 One-touch fitting
L8	Top ported elbow With ø8 One-touch fitting
B4	Bottom ported elbow With ø4 One-touch fitting
B6	Bottom ported elbow With ø6 One-touch fitting
B8	Bottom ported elbow With ø8 One-touch fitting
LM	Elbow port, mixed sizes

Note 1) Indicate the size in the specification sheet in the case of "CM" and "LM".  
Note 2) Symbols for inch sizes are as follows:  
<For One-touch fittings>  
N3: ø5/32"  
N7: ø1/4"  
N9: ø5/16"  
NM: Mixed  
The top ported elbow is LN□ and the bottom ported elbow is BN□.

**Kit designation/Electrical entry/Cable length**  
(Refer to page 2-2-16 for detailed information on kits.)

**SI unit COM.**

SI unit COM	EX250					EX500				EX126
	DeviceNet	PROFIBUS-DP	CC-LINK	AS-i	CANopen	DeviceNet	PROFIBUS-DP	CC-LINK	Remote I/O	CC-LINK
Nil +COM	—	—	○	—	—	○	○	○	○	○
N -COM	○	○	—	○	○	○	○	○	○	—

Note) Leave the box blank for the SI unit COM without SI unit (SD0).

**Number of input blocks (Fill out for I/O unit only)**

Nil	Without SI unit/input block (SD0)
0	Without input block
1	With 1 input block
:	:
8	With 8 input blocks

**Option**

Nil	None
B	All stations with back pressure check valve <sup>Note 1)</sup>
D	With DIN rail (Rail length: Standard)
D□	With DIN rail (Rail length: Special) <sup>Note 2)</sup>
K	Special wiring specifications <sup>Note 3)</sup> (Except double wiring)
N	With name plate
R	External pilot <sup>Note 4)</sup>
S	Direct exhaust with built-in silencer <sup>Note 5)</sup>
T	Branched P and R ports on U side <sup>Note 6)</sup>

\* When specifying more than one option, enter symbols in alphabetical order.  
Example: -BRS

Note 1) When using the back pressure check valve for the necessary stations only, enter the back pressure check valve part no. and indicate the number of manifold stations on the specification sheet.

Note 2) For special DIN rail length, indicate "D□". (Enter the number of stations inside □.)  
Example: -D08  
In this case, stations will be mounted on a DIN rail for 8 stations regardless of the actual number of manifold stations. The specified number of stations must be larger than the number of stations on the manifold. Indicate "-D0" for the option without DIN rail.

Note 3) Be sure to indicate the wiring specifications on the specification sheet.

Note 4) For external pilot option, "-R", indicate the external pilot specification "R" for the applicable valves as well.

Note 5) The built-in silencer type does not satisfy the IP67 standard.

Note 6) The SUP and EXH ports on U side are branched (toward the cylinder port and coil) with ø12 one-touch fittings for connection.

**Input block COM. (Fill out for I/O unit only)**

Nil	PNP (+) or without SI unit/input block
N	NPN (-)

**Input block type (Fill out for I/O unit only)**

Nil	Without input block
1	M12, 2 inputs
2	M12, 4 inputs
3	M8, 4 inputs (3 pins)

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

## How to Order Valves

**VQC 2 1 0 0 5**

**Series**  
2 VQC2000

**Type of actuation**

1	2 position single (A)(B) 4 2 5 1 3 (R1)(P)(R2)	<b>A</b> Note)	4 position dual 3 port valve (A) (A) (B) 4 4 2 5 1 3 (R1) (P) (R2) N.C (P) N.C
	2 position double (metal) (A)(B) 4 2 5 1 3 (R1)(P)(R2)	<b>B</b> Note)	4 position dual 3 port valve (B) (A) (B) 4 4 2 5 1 3 (R1) (P) (R2) N.O (P) N.O
2	2 position double (rubber) (A)(B) 4 2 5 1 3 (R1)(P)(R2)	<b>C</b> Note)	4 position dual 3 port valve (C) (A) (B) 4 4 2 5 1 3 (R1) (P) (R2) N.C (P) N.O
	3 position closed center (A)(B) 4 2 5 1 3 (R1)(P)(R2)	Note) For rubber seal type only.	
3	3 position exhaust center (A)(B) 4 2 5 1 3 (R1)(P)(R2)		
4	3 position pressure center (A)(B) 4 2 5 1 3 (R1)(P)(R2)		
5			

**Manual override**

**Nil:** Non-locking push type (Slotted)  
**B:** Locking type (Slotted)  
**C:** Locking type (Manual)  
**D:** Slide locking type (Manual)

**Light/Surge voltage suppressor**

Nil	With
E	Without Note)

Note) Not applicable to S kit.

**Coil voltage**

5	24 VDC Note)
6	12 VDC

Note) S kit is only available for 24 VDC.

**Function**

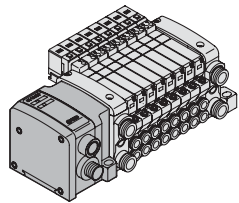
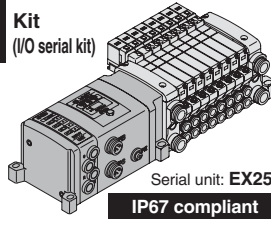
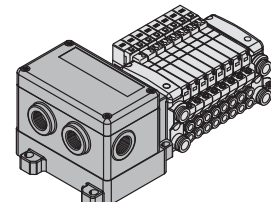
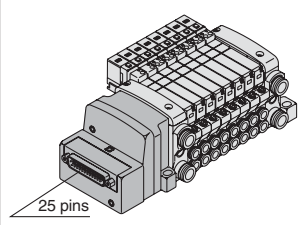
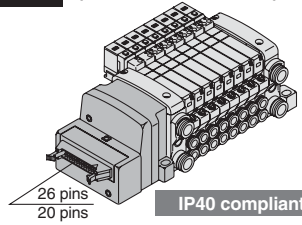
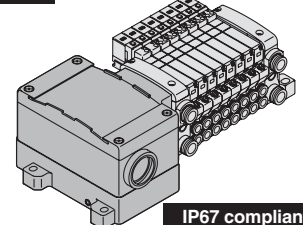
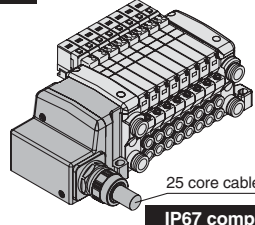
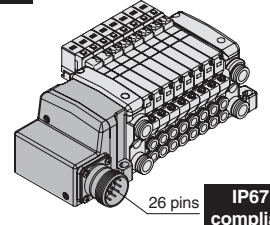
Nil	Standard type (1 W)
K Note 1)	High pressure type (1.0 MPa)
N	Negative COM
R Note 2)	External pilot
Y	Low wattage type (0.5 W)

\* When specifying more than one option, enter symbols in alphabetical order.  
Note 1) For metal seal type only.  
Note 2) Not applicable for dual 3 port valve.

**Seal type**

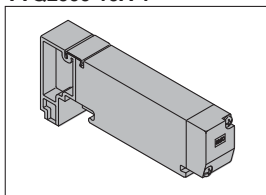
0	Metal seal
1	Rubber seal

### Kit Designation/Electrical Entry/Cable Length

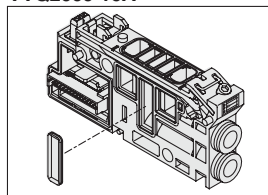
<p><b>S</b> Kit (Decentralized wiring type serial kit)</p>  <p>Serial unit: <b>EX500</b> IP67 compliant</p> <p>Note) A separate gateway unit and communication cable are required.</p> <table border="1"> <tr> <td>SD0</td> <td>Serial kit without SI unit</td> <td></td> </tr> <tr> <td>SDA1</td> <td>Serial kit for Remote I/O</td> <td>1 to 8 stations (16 stations)</td> </tr> <tr> <td>SDA2</td> <td>Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK</td> <td></td> </tr> </table>	SD0	Serial kit without SI unit		SDA1	Serial kit for Remote I/O	1 to 8 stations (16 stations)	SDA2	Serial kit for DeviceNet/PROFIBUS-DP/CC-LINK		<p><b>S</b> Kit (I/O serial kit)</p>  <p>Serial unit: <b>EX250</b> IP67 compliant</p> <table border="1"> <tr> <td>SD0</td> <td>Serial kit without SI unit</td> <td></td> </tr> <tr> <td>SDY</td> <td>Serial kit for CANopen</td> <td></td> </tr> <tr> <td>SDQ</td> <td>Serial kit for DeviceNet</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>SDN</td> <td>Serial kit for PROFIBUS-DP</td> <td></td> </tr> <tr> <td>SDV</td> <td>Serial kit for CC-LINK</td> <td></td> </tr> <tr> <td>SDTA</td> <td>AS-i, 8 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTB</td> <td>AS-i, 4 in/out, 31 slave modes, 2 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> <tr> <td>SDTC</td> <td>AS-i, 8 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 4 stations (8 stations)</td> </tr> <tr> <td>SDTD</td> <td>AS-i, 4 in/out, 31 slave modes, 1 power supply systems</td> <td>1 to 2 stations (4 stations)</td> </tr> </table>	SD0	Serial kit without SI unit		SDY	Serial kit for CANopen		SDQ	Serial kit for DeviceNet	1 to 12 stations (24 stations)	SDN	Serial kit for PROFIBUS-DP		SDV	Serial kit for CC-LINK		SDTA	AS-i, 8 in/out, 31 slave modes, 2 power supply systems	1 to 4 stations (8 stations)	SDTB	AS-i, 4 in/out, 31 slave modes, 2 power supply systems	1 to 2 stations (4 stations)	SDTC	AS-i, 8 in/out, 31 slave modes, 1 power supply systems	1 to 4 stations (8 stations)	SDTD	AS-i, 4 in/out, 31 slave modes, 1 power supply systems	1 to 2 stations (4 stations)	<p><b>S</b> Kit (Serial output kit)</p>  <p>Serial unit: <b>EX126</b> IP67 compliant</p> <table border="1"> <tr> <td>SDVB</td> <td>Serial kit for CC-LINK</td> <td>1 to 8 stations (16 stations)</td> </tr> </table>	SDVB	Serial kit for CC-LINK	1 to 8 stations (16 stations)	<p><b>F</b> Kit (D-sub connector kit)</p>  <p>25 pins</p> <p>IP40 compliant</p> <table border="1"> <tr> <td>FD0</td> <td>D-sub connector kit (25P) without cable</td> <td></td> </tr> <tr> <td>FD1</td> <td>D-sub connector kit (25P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>FD2</td> <td>D-sub connector kit (25P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>FD3</td> <td>D-sub connector kit (25P) with 5.0 m cable</td> <td></td> </tr> </table>	FD0	D-sub connector kit (25P) without cable		FD1	D-sub connector kit (25P) with 1.5 m cable	1 to 12 stations (24 stations)	FD2	D-sub connector kit (25P) with 3.0 m cable		FD3	D-sub connector kit (25P) with 5.0 m cable	
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<p><b>P</b> Kit (Flat ribbon cable kit)</p>  <p>26 pins 20 pins</p> <p>IP40 compliant</p> <p>Note) For a 20P flat ribbon cable, the cable assembly must be ordered separately.</p> <table border="1"> <tr> <td>PD0</td> <td>Flat ribbon cable kit (26P) without cable</td> <td></td> </tr> <tr> <td>PD1</td> <td>Flat ribbon cable kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>PD2</td> <td>Flat ribbon cable kit (26P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>PD3</td> <td>Flat ribbon cable kit (26P) with 5.0 m cable</td> <td></td> </tr> <tr> <td>PDC</td> <td>Flat ribbon cable kit (20P) without cable</td> <td>1 to 9 stations (18 stations)</td> </tr> </table>	PD0	Flat ribbon cable kit (26P) without cable		PD1	Flat ribbon cable kit (26P) with 1.5 m cable	1 to 12 stations (24 stations)	PD2	Flat ribbon cable kit (26P) with 3.0 m cable		PD3	Flat ribbon cable kit (26P) with 5.0 m cable		PDC	Flat ribbon cable kit (20P) without cable	1 to 9 stations (18 stations)	<p><b>T</b> Kit (Terminal block box kit)</p>  <p>IP67 compliant</p> <table border="1"> <tr> <td>TD0</td> <td>Terminal block box kit</td> <td>1 to 10 stations (20 stations)</td> </tr> </table>	TD0	Terminal block box kit	1 to 10 stations (20 stations)	<p><b>L</b> Kit (Lead wire kit)</p>  <p>25 core cable</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>LD0</td> <td>Lead wire kit (25 core) 0.6 m lead wire</td> <td></td> </tr> <tr> <td>LD1</td> <td>Lead wire kit (25 core) 1.5 m lead wire</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>LD2</td> <td>Lead wire kit (25 core) 3.0 m lead wire</td> <td></td> </tr> </table>	LD0	Lead wire kit (25 core) 0.6 m lead wire		LD1	Lead wire kit (25 core) 1.5 m lead wire	1 to 12 stations (24 stations)	LD2	Lead wire kit (25 core) 3.0 m lead wire		<p><b>M</b> Kit (Multiple connector kit)</p>  <p>26 pins</p> <p>IP67 compliant</p> <table border="1"> <tr> <td>MD0</td> <td>Multiple connector kit (26P) without cable</td> <td></td> </tr> <tr> <td>MD1</td> <td>Multiple connector kit (26P) with 1.5 m cable</td> <td>1 to 12 stations (24 stations)</td> </tr> <tr> <td>MD2</td> <td>Multiple connector kit (26P) with 3.0 m cable</td> <td></td> </tr> <tr> <td>MD3</td> <td>Multiple connector kit (26P) with 5.0 m cable</td> <td></td> </tr> </table>	MD0	Multiple connector kit (26P) without cable		MD1	Multiple connector kit (26P) with 1.5 m cable	1 to 12 stations (24 stations)	MD2	Multiple connector kit (26P) with 3.0 m cable		MD3	Multiple connector kit (26P) with 5.0 m cable													
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**Manifold Option**

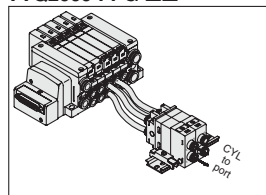
Blanking plate assembly  
VVQ2000-10A-1



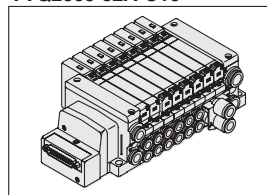
SUP block plate  
VVQ2000-16A



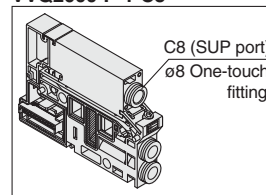
Perfect block  
VVQ2000-FPG-□□



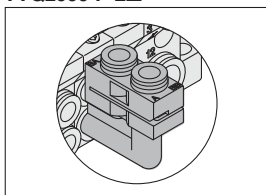
Dual flow fitting assembly  
VVQ2000-52A-C10



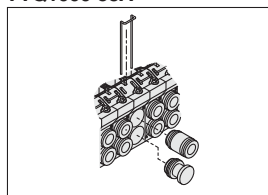
Individual SUP spacer  
VVQ2000-P-1-C8



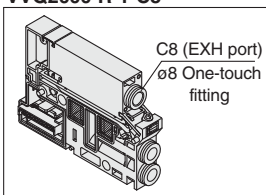
Elbow fitting assembly  
VVQ2000-F-L□



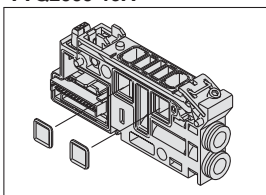
Port plug  
VVQ1000-58A



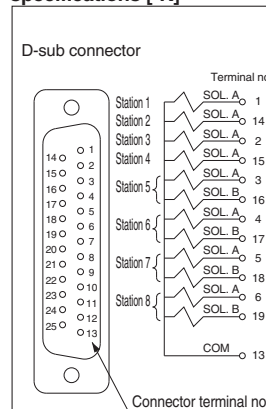
Individual EXH spacer  
VVQ2000-R-1-C8



EXH block plate  
VVQ2000-19A



Electrical wiring specifications [-K]



DIN rail mounting bracket [-D]  
VVQC2000-57A

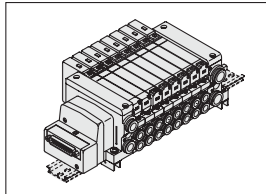
for (F, L, M, P, S (EX500) kit)

VVQC2000-57A-S

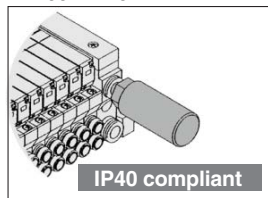
for (S (EX250) kit)

VVQC2000-57A-T

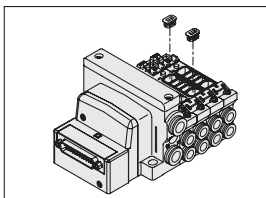
for (T, S (EX126) kit)



Silencer (for EXH port)  
AN200-KM10

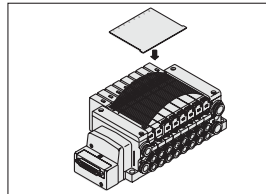


Back pressure check valve assembly [-B]  
VVQ2000-18A

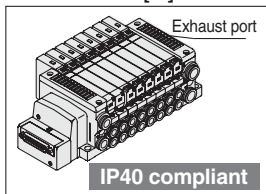


Name plate [-N]  
VVQ2000-N-Stations

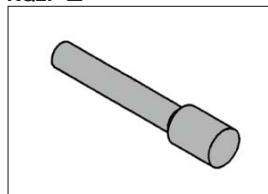
(1 to max. no. of stations)



Direct EXH outlet with built-in silencer [-S]



Blanking plug  
KQ2P-□



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

# Series VQC

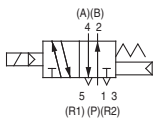
## Base Mounted

# Plug-in Unit

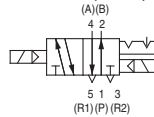


### JIS Symbol

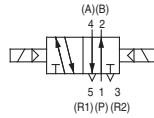
2 position single



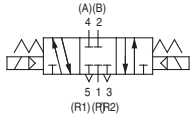
2 position double (metal)



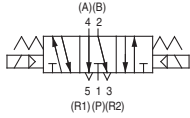
2 position double (rubber)



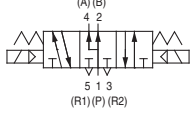
3 position closed center



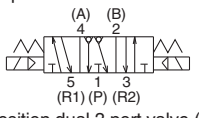
3 position exhaust center



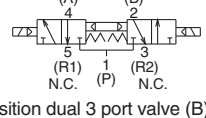
3 position pressure center



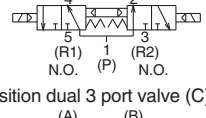
3 position exhaust center with pressure release valves



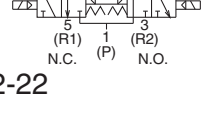
4 position dual 3 port valve (A)



4 position dual 3 port valve (B)



4 position dual 3 port valve (C)



2-2-22

### Model

Series	No. of solenoids	Model	Flow characteristics						Response time (ms) <sup>Note 2)</sup>		Weight (g)		
			1 → 4, 2 (P → A, B)			4, 2 → 5, 3 (A, B → R1, R2)			Standard: 1 W	Low wattage			
			C[dm <sup>3</sup> /(s·bar)]	b	Cv	C[dm <sup>3</sup> /(s·bar)]	b	Cv					
VQC1000	2 position	Single	Metal seal	VQC1100	0.70	0.15	0.16	0.72	0.25	0.18	12 or less	15 or less	64
			Rubber seal	VQC1101	0.85	0.20	0.21	1.0	0.30	0.25	15 or less	20 or less	
		Double	Metal seal	VQC1200	0.70	0.15	0.16	0.72	0.25	0.18	10 or less	13 or less	
			Rubber seal	VQC1201	0.85	0.20	0.21	1.0	0.30	0.25	15 or less	20 or less	
	3 position	Closed center	Metal seal	VQC1300	0.68	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less	78
			Rubber seal	VQC1301	0.70	0.20	0.16	0.65	0.42	0.18	25 or less	33 or less	
		Exhaust center	Metal seal	VQC1400	0.68	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less	
			Rubber seal	VQC1401	0.70	0.20	0.16	1.0	0.30	0.25	25 or less	33 or less	
		Pressure center	Metal seal	VQC1500	0.70	0.15	0.16	0.72	0.25	0.18	20 or less	26 or less	
			Rubber seal	VQC1501	0.85	0.20	0.21	0.65	0.42	0.18	25 or less	33 or less	
4 position	Dual 3 port valve	Rubber seal	VQC1 <sup>A</sup> <sub>C</sub> 01	0.70	0.20	0.16	0.70	0.20	0.16	25 or less	33 or less		
VQC2000	2 position	Single	Metal seal	VQC2100	2.0	0.15	0.46	2.6	0.15	0.60	22 or less	29 or less	90
			Rubber seal	VQC2101	2.2	0.28	0.55	3.2	0.30	0.80	24 or less	31 or less	
		Double	Metal seal	VQC2200	2.0	0.15	0.46	2.6	0.15	0.60	15 or less	20 or less	
			Rubber seal	VQC2201	2.2	0.28	0.55	3.2	0.30	0.80	20 or less	26 or less	
	3 position	Closed center	Metal seal	VQC2300	2.0	0.15	0.46	2.0	0.18	0.46	29 or less	38 or less	110
			Rubber seal	VQC2301	2.0	0.28	0.49	2.2	0.31	0.60	34 or less	44 or less	
		Exhaust center	Metal seal	VQC2400	2.0	0.15	0.46	2.6	0.15	0.60	29 or less	38 or less	
			Rubber seal	VQC2401	2.0	0.28	0.49	3.2	0.30	0.80	34 or less	44 or less	
		Pressure center	Metal seal	VQC2500	2.4	0.17	0.57	2.0	0.18	0.46	29 or less	38 or less	
			Rubber seal	VQC2501	3.2	0.28	0.80	2.2	0.31	0.60	34 or less	44 or less	
4 position	Dual 3 port valve	Rubber seal	VQC2 <sup>A</sup> <sub>C</sub> 01	1.8	0.28	0.46	1.8	0.28	0.46	34 or less	44 or less		
VQC4000	2 position	Single	Metal seal	VQC4100	6.2	0.19	1.5	6.9	0.17	1.7	20 or less	22 or less	230
			Rubber seal	VQC4101	7.2	0.43	2.1	7.3	0.38	2.0	25 or less	27 or less	
		Double	Metal seal	VQC4200	6.2	0.19	1.5	6.9	0.17	1.7	12 or less	12 or less	
			Rubber seal	VQC4201	7.2	0.43	2.1	7.3	0.38	2.0	15 or less	15 or less	
	3 position	Closed center	Metal seal	VQC4300	5.9	0.23	1.5	6.3	0.18	1.6	45 or less	47 or less	280
			Rubber seal	VQC4301	7.0	0.34	1.9	6.4	0.42	1.9	50 or less	52 or less	
		Exhaust center	Metal seal	VQC4400	6.2	0.18	1.5	6.9	0.17	1.7	45 or less	47 or less	
			Rubber seal	VQC4401	7.0	0.38	1.9	7.3	0.38	2.0	50 or less	52 or less	
		Pressure center	Metal seal	VQC4500	6.2	0.18	1.9	6.4	0.18	1.6	45 or less	47 or less	
			Rubber seal	VQC4501	7.0	0.38	1.9	7.1	0.38	2.0	50 or less	52 or less	
Perfect	Metal seal	VQC4600	2.7	—	—	3.7	—	—	55 or less	57 or less			
Rubber seal	VQC4601	2.8	—	—	3.9	—	—	62 or less	64 or less				



Note 1) Values represented in this column are in the following conditions:

VQC1000: Cylinder port size C6 without a back pressure check valve

VQC2000: Cylinder port size C8 without a back pressure check valve

VQC4000: Cylinder port size Rc 3/8

Note 2) Values represented in this column are based on JIS B 8375-1981 (operating with clean air and a supply pressure of 0.5 MPa. Equipped with light/surge voltage suppressor. Values vary depending on the pressure as well as the air quality.) Values for double types are when the switch is ON.



## Standard Specifications

Valve Configuration		Metal seal		Rubber seal		
		Air/Inert gas				
Valve specifications	VQC1000/2000	Max. operating pressure		0.7 MPa (High pressure type: 1.0 MPa) <sup>Note 4)</sup>		
		Min. operating pressure	Single	0.1 MPa	0.15 MPa	
			Double	0.1 MPa		
			3 position	0.1 MPa	0.2 MPa	
			4 position	—	0.15 MPa	
	VQC4000	Max. operating pressure <sup>Note 3)</sup>		1.0 MPa (0.7 MPa)		
		Min. operating pressure	Single	0.15 MPa	0.2 MPa	
			Double	0.15 MPa		
	3 position	0.15 MPa	0.2 MPa			
	Proof pressure		1.5 MPa			
	Ambient and fluid temperature		-10 to 50°C <sup>Note 1)</sup>			
	Lubrication		Not required			
Manual override		Push type/Locking type (tool required)/Locking type (Manual override) <sup>Note 5)</sup> /Slide locking type <sup>Note 5)</sup>				
Impact resistance/Vibration resistance		150/30 m/s <sup>2</sup> <sup>Note 2)</sup>				
Enclosure		Dust proof (IP67 compliant)				
Electrical specifications	Rated coil voltage		24 VDC			
	Allowable voltage fluctuation		±10% of rated voltage			
	Coil insulation type		Equivalent to B type			
	Power consumption (Current)	24 VDC	1 W DC (42 mA), 0.5 W DC (21 mA)			
		12 VDC	1 W DC (83 mA), 0.5 W DC (42 mA)			

Note 1) Use dry air to prevent condensation at low temperatures.

Note 2) **Impact resistance:** No malfunction resulted from the impact test using a drop impact tester. The test was performed one time each in the axial and right angle directions of the main valve and armature, for both energized and de-energized states.

**Vibration resistance:** No malfunction occurred in a one-sweep test between 45 and 2000Hz. Test was performed in the axial and right angle directions of the main valve and armature for both energized and de-energized states.

Note 3) Values in ( ) are for the low wattage (0.5 W) specification.

Note 4) Metal seal type only.

Note 5) Only for VQC1000/2000.



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

## Manifold Specifications

Series	Base model	Connection type	Piping specifications		Applicable stations <sup>Note 2)</sup>	Applicable solenoid valves	5 station weight (g)
			Port direction	Port size <sup>Note 1)</sup>			
VQC1000	VV5QC11-□□□	<ul style="list-style-type: none"> <li>■ F Kit: D-sub connector</li> <li>■ P Kit: Flat cable</li> <li>■ T Kit: Terminal block box</li> <li>■ S Kit: Serial transmission</li> <li>■ L Kit: Lead wire</li> <li>■ M Kit: Multiple connector</li> </ul>	Side	C8 (For ø8) Options Direct outlet with built-in silencer C3 (For ø3.2) C4 (For ø4) C6 (For ø6) M5 (M5 threads)	(F, L, M and P kits) 1 to 12 stations T kit 1 to 10 stations S kit 1 to 8 stations: EX500 1 to 12 stations: EX250 1 to 8 stations: EX126	VQC1□00-5 VQC1□01-5	628 (Single) 759 (Double, 3P)
VQC2000	VV5QC21-□□□		Side	C10 (For ø10) Options Direct outlet with built-in silencer Branch type C12 (for ø12) C4 (For ø4) C6 (For ø6) C8 (For ø8)	1 to 8 stations: EX500 1 to 12 stations: EX250 1 to 8 stations: EX126	VQC2□00-5 VQC2□01-5	1051 (Single) 1144 (Double, 3P)
VQC4000	VV5QC41-□□□		Side    Bottom	C8 (For ø8) C10 (For ø10) C12 (For ø12) Rc 1/4 Rc 3/8  Rc 1/4	(F, L, M and P kits) 1 to 12 stations T kit 1 to 10 stations S kit 1 to 12 stations: EX240, EX250 1 to 8 stations: EX500 1 to 8 stations: EX126	VQC4□00-5 VQC4□01-5	4150 • S kit (without unit) • Solenoid weight is not included.

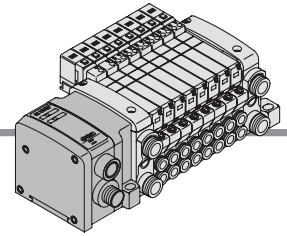
Note 1) One-touch fittings in inch sizes are also available.

Note 2) An optional specification for special wiring is available to increase the maximum number of stations.



Series VQC

**S** VQC1000/2000/4000 Kit (Serial transmission kit) Decentralized Serial Wiring



Gateway type serial transmission system

• Since wiring is "prepackaged" into one multi-connector type cable, wiring work is not only made easier, but much more accurate.

S kit can be used by connecting to gateway unit.

Gateway (GW) Unit IP65 compliant



How to Order

**EX500 — G DN1**

Communication protocol

DN1	DeviceNet	AB1-X1	Remote I/O (RIO)
PR1A	PROFIBUS-DP	MJ1	CC-LINK

Specifications

Model	EX500-GAB1-X1	EX500-GDN1	EX500-GPR1A	EX500-GMJ1
Applicable PLC/Communication protocol	Rockwell Automation PLC	DeviceNet Release 2.0	PROFIBUS-DP (EN50170)	CC-LINK Ver. 1.10
Communication speed	57.6/115.2/230.4 kbit/sec	125/250/500 kbit/sec	9.6/19.2/45.45/93.75/187.5/500 kbit/sec 1.5/3/6/12 Mbit/sec	156/625 kbit/sec 2.5/5/10 Mbit/sec
Rated voltage	24 VDC			
Power supply voltage range	Input and control unit power supply: 24 VDC ± 10% Solenoid valve power supply: 24 VDC + 10%/–5% (with power drop warning at approx. 20 V)			
	—	Communication power supply for DeviceNet 11 to 25 VDC	—	—
Current consumption	200 mA or less (Single GW unit)			
	—	Communication power supply for DeviceNet 50 mA or less	—	—
Number of inputs/outputs	Maximum 64 inputs/64 outputs			
Number of input/output branches	4 branches (16 inputs/16 outputs per branch)			
Branch cable	8 core heavy duty cable			
Branch cable length	5 m or less (total extension 10 m or less)			
Communication connector	M12 connector (8 pins, socket)			
Power connector	M12 connector (5 pins, plug)			
Ambient operating temperature/humidity	+5 to +45°C at 35% to 85% RH (No condensation)			
Enclosure	IP65			
Applicable standard	UL, CSA, CE			
Weight (g)	470			

Input Block IP67 compliant

How to Order Input Manifold

**EEX500 — IB1 — E 8**

Input unit specifications

Connector type	
E	M8 connector
T	M12 connector
M	M8 and M12 mixed

Stations

1	1 station
...	...
8	8 stations

Applicable GW unit

Nil	DeviceNet
	PROFIBUS-DP
-X1	Remote I/O (RIO)



Note) When ordering an input block manifold, enter the [Input manifold part no.] + [Input block part no.] together. The input block, end block and DIN rail are included in the input manifold.

How to Order Input Block

**EX500 — IE 1**

Block type

1	M8 connector, PNP specifications
2	M8 connector, NPN specifications
3	M12 connector, PNP specifications
4	M12 connector, NPN specifications
5	8-point integrated type, M8 connector, PNP specifications
6	8-point integrated type, M8 connector, NPN specifications

Applicable GW unit

Nil	DeviceNet
	PROFIBUS-DP
-X1	Remote I/O (RIO)

\* With waterproof cap

Input Unit Specifications

Connection block	Current source type input block (PNP input block) or Current sink type input block (NPN input block)
Communication connector	M12 connector (8 pins, plug)
Number of connection blocks	Maximum 8 blocks
Block supply voltage	24 VDC
Block supply current	0.65 A maximum
Current consumption	100 mA or less (at rated voltage)
Short circuit protection	Operates at 1A Typ. (power supply cut) GW unit reset by turning power OFF and back ON.
Enclosure	IP65
Weight (g) <small>Note)</small>	100 (Input unit + end block)

Note) Not including the DIN rail weight.

Input Block Specifications

Applicable sensor	Current source type (PNP output) or Current sink type (NPN output)
Sensor connector	M8 connector (3 pins) or, M12 connector (4 pins)
Number of inputs	2 inputs/8 inputs (M8 only)
Rated voltage	24 VDC
Indication	Green LED
Insulation	None
Sensor supply current	Maximum 30 mA/Sensor
Enclosure	IP65
Weight (g)	[For M8: 20] [For M12: 40] [8 point integrated type, for M8: 55]



SI Unit

How to Order

EX500 – Q001

• Applicable GW unit

Nil	DeviceNet PROFIBUS-DP
-X1	Remote I/O (RIO)

VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Specifications

Connection block	Solenoid valve (single, double) Relay output module (1 output, 2 outputs)
Communication connector	M12 connector (8 pins, plug, socket)
Number of connection block stations	Double solenoid valve Relay output module (2 points): Maximum 8 stations Single solenoid valve Relay output module (1 point): Maximum 16 stations
Block supply voltage	24 VDC
Block supply current	0.65 A maximum
Current consumption	100 mA or less (at rated voltage)
Weight (g)	115

Cable

How to Order Cable with M12 Connector

EX500 – AC 030 – SSPS



Cable length

003	0.3 m
005	0.5 m
010	1 m
030	3 m
050	5 m

Connector specifications

SSPS	Socket side: Straight Plug side: Straight
SAPA	Socket side: Angle Plug side: Angle

How to Order Power Cable with Connector

EX500 – AP 050 – S

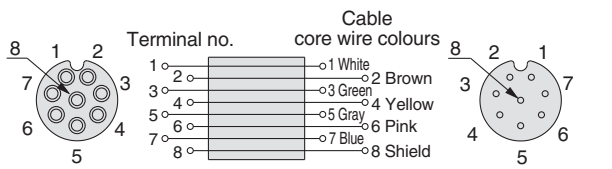


Cable length

010	1 m
050	5 m

• Connector specifications

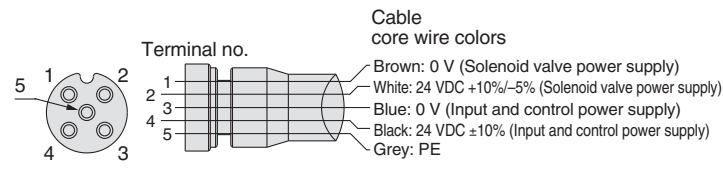
S	Straight
A	Angle



Socket connector pin arrangement

Connections

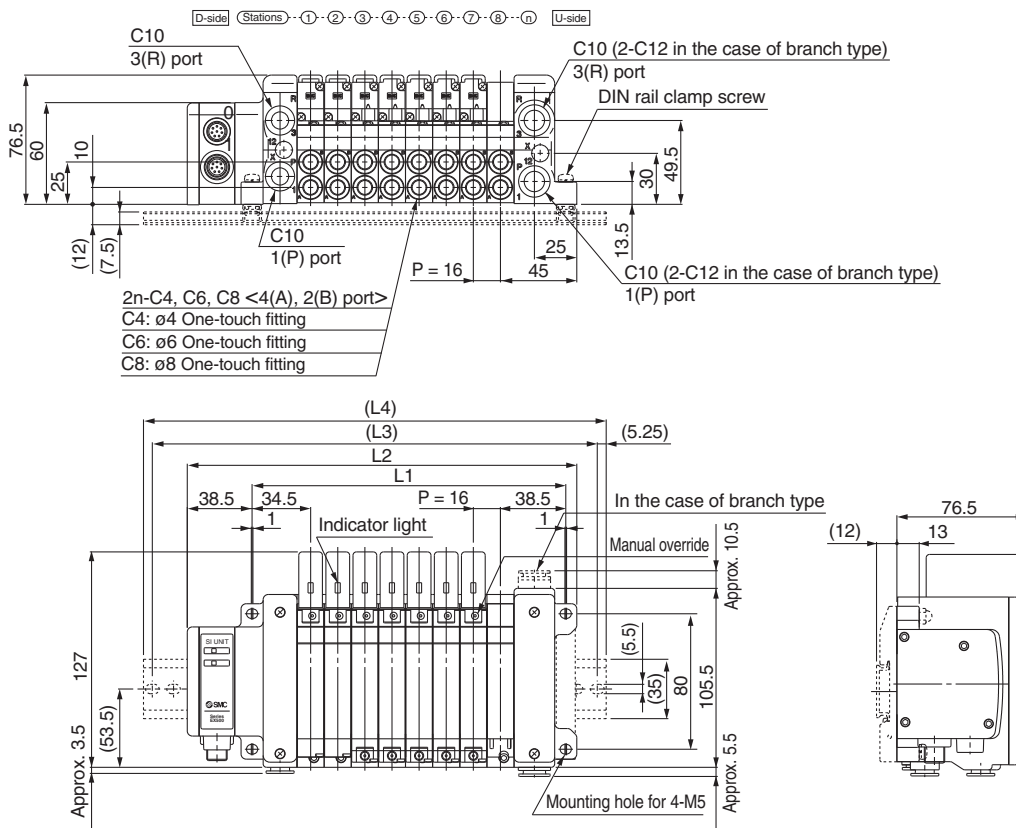
Plug connector pin arrangement



Socket connector pin arrangement

Connections

VV5QC21  
SA1 Kit  
(Serial transmission kit: EX500)



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

Formulas  
L1 = 16n + 57 (Maximum 16 single wiring stations)

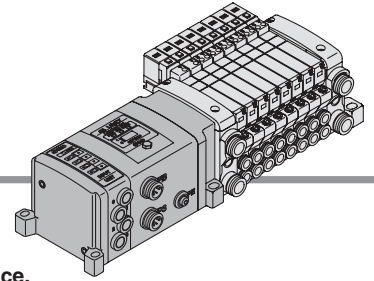
n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313
L2	118	134	150	166	182	198	214	230	246	262	278	294	310	326	342	358
L3	137.5	150	175	187.5	200	212.5	237.5	250	262.5	287.5	300	312.5	337.5	350	362.5	375
L4	148	160.5	185.5	198	210.5	223	248	260.5	273	298	310.5	323	348	360.5	373	385.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.



# S VQC1000/2000/4000 Kit (Serial Transmission Kit) for I/O IP67 compliant



Compatible network **DeviceNet/PROFIBUS-DP/CC-Link**

• The serial transmission system greatly reduces connection work, minimizes wiring, and saves space.

### SI unit for DeviceNet/PROFIBUS-DP/CC-LINK

As a DeviceNet/PROFIBUS-DP/CC-LINK slave unit, this kit is capable of up to 32 points of solenoid valve ON and OFF control. Furthermore, by connecting an input block, a maximum 32 sensor signal inputs are possible.

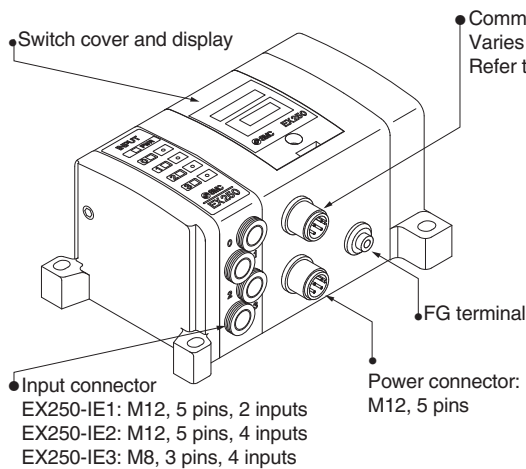
### SI unit for AS-i

As a AS-i slave unit, this kit is capable of up to 4 or 8 points of solenoid valve ON and OFF control. Furthermore, by connecting an inpmut block, a maximun 4 or 8 sensor signal inputs are possible.

### Input block

This expansion block connects to the SI unit and allows for sensor input to the auto switches. Each input block can receive input from up to two or four sensors, and the common can be matched to the sensor by an NPN/PNP selector switch. Input connectors are available in both M8 and M12 types.

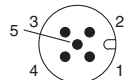
## Connector Details



### Communication connector

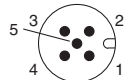
**CANopen:** Female connector cable: M12 female 5 pins cable with shield (according to ISO11898).

Pos.	Description	Function
1	CAN_SHLD	Shield
2	CAN_V+	Power supply +
3	CAN_GND	Power supply -
4	CAN_H	Bus line (dominant High)
5	CAN_L	Bus line (dominant Low)



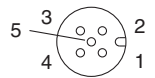
**DeviceNet:** M12...5 pins (Plug) Example for a cable set with plug / socket: OMRON Corporation DCA1-5CN05F1. Karl Lumberg GmbH: 0935 253 103/...M, RSC RKC 57\* ... M. Accessories, bus branch Y: Karl Lumberg GmbH: 0906 UTP 101, Hans Turck GmbH: VB2-FKM-FSM57. Accessories terminating socket with resistor: Hans Turck GmbH: RSE57-TR2, Karl Lumberg GmbH: 0939 CXT 101.

Pos.	Description	Function
1	Drain	Drain / shield
2	V+	Circuit power supply +
3	V-	Circuit power supply -
4	CAN_H	Signal H
5	CAN_L	Signal L



**PROFIBUS-DP:** M12... 5 pins reserve-keyed (Socket). Example for the corresponding cable sets with plug / socket: Hans Turck GmbH: RSSW-RKSW456-...M; Karl Lumberg GmbH: 0975 254 101/...M. Accessories Bus branch Y: Hans Turck GmbH: VB2/FSW/FKW/FSW45. Accessories terminating resistor: Hans Turck GmbH: RSS4.5-PDP-TR; Karl Lumberg GmbH: 0979PTX101

Pos.	Description	Function
1	VP	Power supply for terminating resistor
2	A-N	Negative for data transfer/reception
3	DGND	Ground for terminating resistor
4	B-P	Positive for data transfer/reception
5	SHIELD	Shield

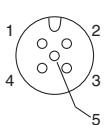


### Circuit diagram Input module (EX250-IE\*)

Input connection: M12 ... 5 pins (Socket)  
Example for the cable side connection: OMRON Corporation XS2G;  
Karl Lumberg GmbH: Series RST5; Franz Binder GmbH: Series 713,763

Pos.	Description	Function
1	SW+	Sensor power supply +
2	N.C (SIGNAL)	Open*
3	SW-	Sensor power supply -
4	SIGNAL	Sensor input signal
5	E	Sensor ground connection

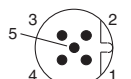
\* In the 4 input type unit (EX250-IE2), this is the input signal from the second sensor connected.



### Power supply

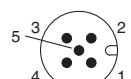
**DeviceNet:** M12 ... 5 pins reserve-keyed (Plug)  
(The configuration of the connection surface area differs from that of the transmission plug)  
Example of the cable set with socket: Hans Turck GmbH: WAKW4.5T-2, Franz Binder GmbH: 79-4449-...05.

Pos.	Description	Function
1	SV24V	+24 V solenoid valve
2	SV0V	0V solenoid valve
3	SW24V	+24 V SI and input blocks
4	SW0V	0 V SI and input blocks
5	E	Ground connection



**PROFIBUS-DP:** M12...5 pins (Plug)  
Example of the cable set with socket:  
SMC: EX500-AP...S (See page 2-2-25.)

Pos.	Description	Function
1	SV24V	+24 V solenoid valve
2	SV0V	0 V solenoid valve
3	SW24V	+24 V SI and input blocks
4	SW0V	0 V SI and input blocks
5	E	Ground connection



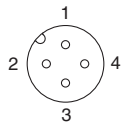
Input connection: M8 ... 3 pins (Socket)  
Example for cable side connection: Franz Binder GmbH Series 718, 768  
Karl Lumberg GmbH: Series RSMV3

Pos.	Description	Function
1	SW+	Sensor power supply +
3	SW-	Sensor power supply -
4	SIGNAL	Sensor input signal



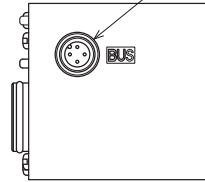
**AS-i EX250-SAS7 / EX250-SAS9**

Communication connector: M12 male 4 pins

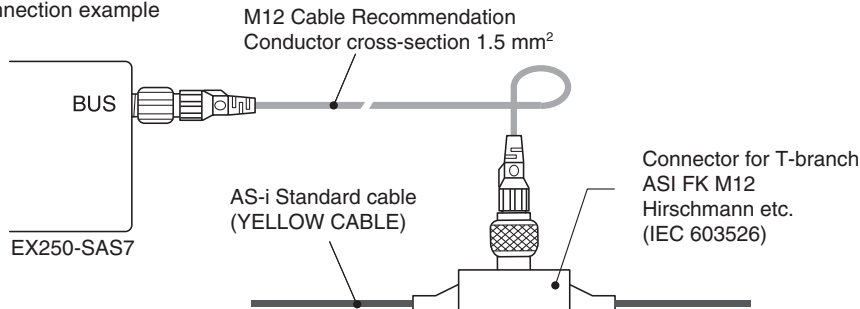


Pos.	Description	Function
1	AS-i +	Positive AS-Interface line
2	RESERVE	RESERVE
3	AS-i -	Negative AS-Interface line
4	RESERVE	RESERVE

Communication connector



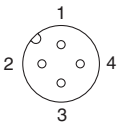
Connection example



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

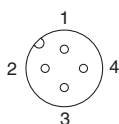
**AS-i EX250-SAS3 / EX250-SAS5**

Communication connector: M12 male 4 pins



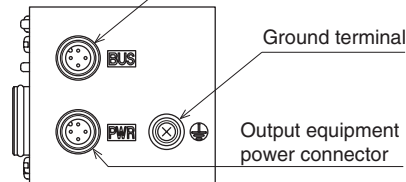
Pos.	Description	Function
1	AS-i +	Positive AS-Interface line
2	0V	Negative output equipment power line
3	AS-i -	Negative AS-Interface line
4	24V	Positive output equipment power line

Output equipment power connector: M12 male 4 pins



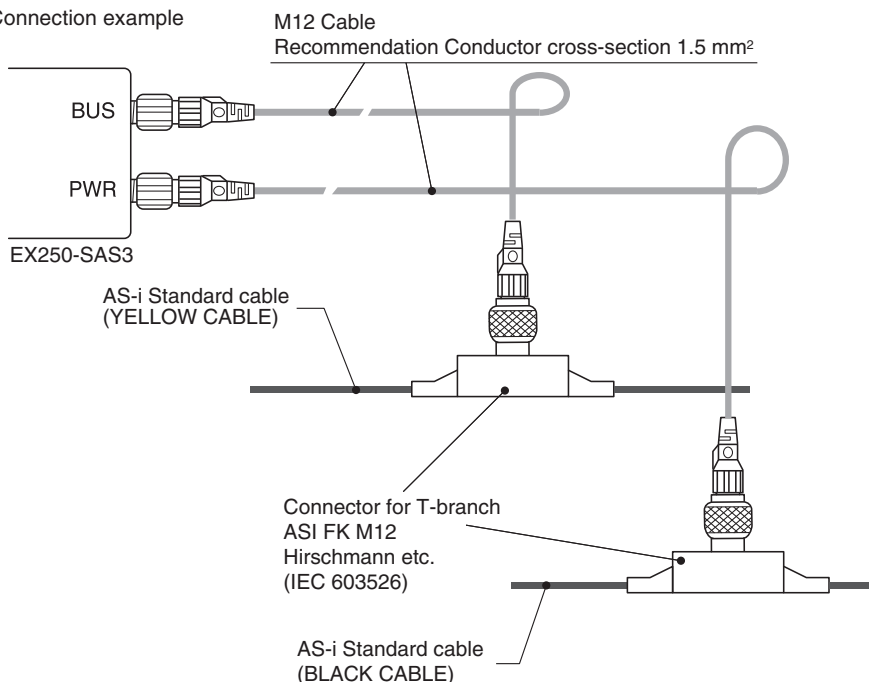
Pos.	Description	Function
1	24V	Positive output equipment power line
2	NC	Not connected
3	0V	Negative output equipment power line
4	NC	Not connected

Communication connector



\* Connected inside the SI unit.

Connection example

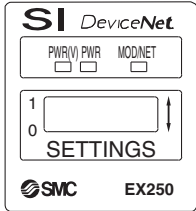


# S VQC1000/2000/4000 Kit (Serial transmission kit) for I/O IP67 compliant

## Indicator Unit (LED) Description and Its Function

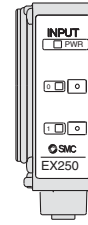
### SI unit

#### DeviceNet (EX250-SDN1)

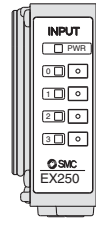


Name	Function
PWR(V)	ON when solenoid valve power supply is turned ON.
PWR	ON when DeviceNet circuit power supply input is turned ON.
MOD/NET	OFF: Power supply off, off line, or when checking duplication of MAC_ID.
	GREEN BLINKING: Waiting for connection (on line).
	GREEN ON: Connection established (on line).
	RED BLINKING: Connection time out (minor communication abnormality).
	RED ON: MAC_ID duplication error, or BUSOFF error (major communication abnormality).

### Input block (EX250-IE1/2/3)



2-input type (EX250-IE1)



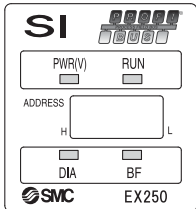
4-input type (EX250-IE2/3)

Description	Function
PWR	ON when sensor power is turned ON.
0 to 1(3)	ON when each sensor input goes ON.



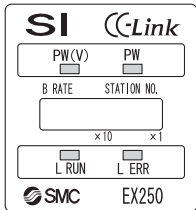
\* Please contact your SMC representative for specifications and handling precautions.

### PROFIBUS-DP (EX250-SPR1)



Name	Function
PWR(V)	GREEN ON when solenoid valve power supply is turned ON. GREEN OFF when the power supply voltage is less than 19 V.
RUN	GREEN ON when operating (SI unit power supply is ON).
DIA	RED ON when self diagnosis device detects abnormality.
BF	RED ON for BUS abnormality.

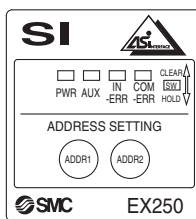
### CC-Link (EX250-SMJ2)



Name	Function
PW	ON: Input and control unit power supply ON. OFF: Input and control unit power supply OFF.
PW(V)	ON: Solenoid valve power supply ON. OFF: Solenoid valve power supply voltage is less than 19 V.
L RUN	ON: Normal traffic OFF: Traffic disconnected (Timeover error)
L ERR	ON: Traffic error BLINKING: Station or baud rate switch is set while the power supply is ON. OFF: Normal traffic

When the data link is normal, PW, PW (V) and L RUN are ON.

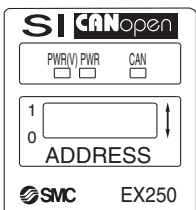
### AS-i (EX250-SAS□)



Name	LED Condition	Contents
PWR	Green Light	In time of power supply for AS-Interface line is turned on.
AUX	Green Light	In time of auxiliary power supply for output equipment is turned on.
IN-ERR	Red Light	In time of input power is detected over current. (Lights off at normal condition)
COM-ERR	Red Light	In time of communication error. (Lights off at normal condition)
	Red Blink	In time of peripheral equipment error. (Over current of input power, blowing the fuse etc.)

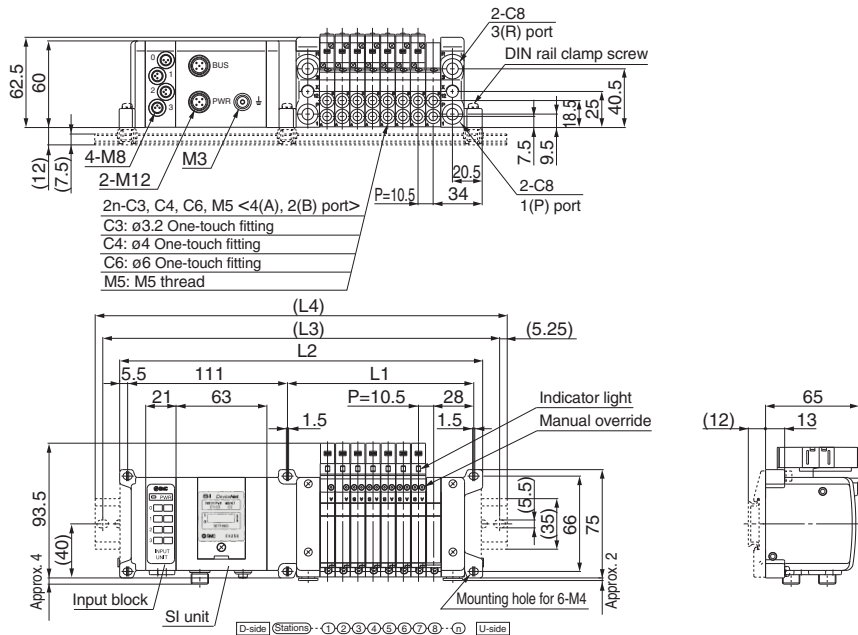
### SI unit

#### CANopen (EX250-SCA1)



Name	LED Condition	Contents
PWR(V)	Green Light	Illuminates when power for solenoid valves is supplied
	Green Light	Illuminates when power for CANopen line is supplied
PWR	Green Light	Illuminates when SI unit is in the Operational state
	Green Light (Blinking)	SI unit is in the Pre-operational state
	Green Light (Single flash)	Single flash when SI unit is in Stopped state
	Red Light (Single flash)	Single flash when CAN controller error occurs
	Red Light (Double flash)	Double flash when Error Control Event occurs
	Green/Red Light (flickering)	Flickering when SI unit is in Configuration mode (LSS services)
	Red Light	Red Light SI unit is in "Bus OFF" state

**VV5QC11**  
**S Kit**  
 (Serial transmission  
 kit: EX250)



VQC

SQ

VQ0

VQ4

VQ5

VQZ

VQD

Formulas

$L1 = 10.5n + 45$  (Maximum 24 single wiring stations)

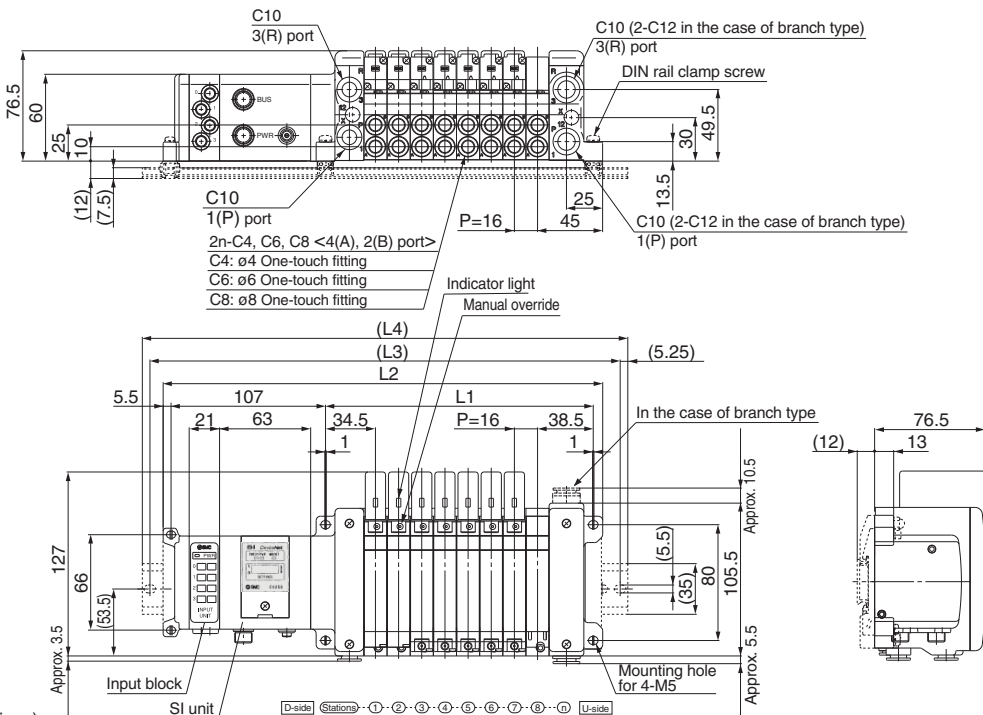
\*  $L2$ : For one input block. Add 21 mm for each additional input block.

n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213	223.5	234	244.5	255	265.5	276	286.5	297
L2	178	188.5	199	209.5	220	230.5	241	251.5	262	272.5	283	293.5	304	314.5	325	335.5	346	356.5	367	377.5	388	398.5	409	419.5
L3	200	212.5	225	237.5	250	250	262.5	275	287.5	300	312.5	325	325	337.5	350	362.5	375	387.5	387.5	400	412.5	425	437.5	450
L4	210.5	223	235.5	248	260.5	260.5	273	285.5	298	310.2	323	335.5	335.5	348	360.5	373	385.5	398	398	410.5	423	435.5	448	448

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

**VV5QC21**  
**S Kit**  
 (Serial transmission  
 kit: EX250)



Formulas

$L1 = 16n + 57$  (Maximum 24 single wiring stations)

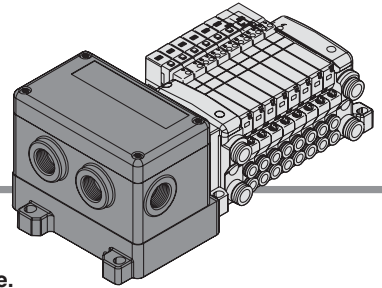
\*  $L2$ : For one input block. Add 21 mm for each additional input block.

n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	192	208	224	240	256	272	288	304	320	336	352	368	384	400	416	432	448	464	480	496	512	528	544	560
L3	212.5	237.5	250	262.5	275	287.5	312.5	325	337.5	362.5	375	387.5	400	425	437.5	450	462.5	487.5	500	512.5	537.5	550	562.5	587.5
L4	223	248	260.5	273	285.5	298	323	335.5	348	373	385.5	398	410.5	435.5	448	460.5	473	498	510.5	523	548	560.5	573	598

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

**S** VQC1000/2000/4000  
Kit (Serial transmission kit) for I/O IP67 compliant



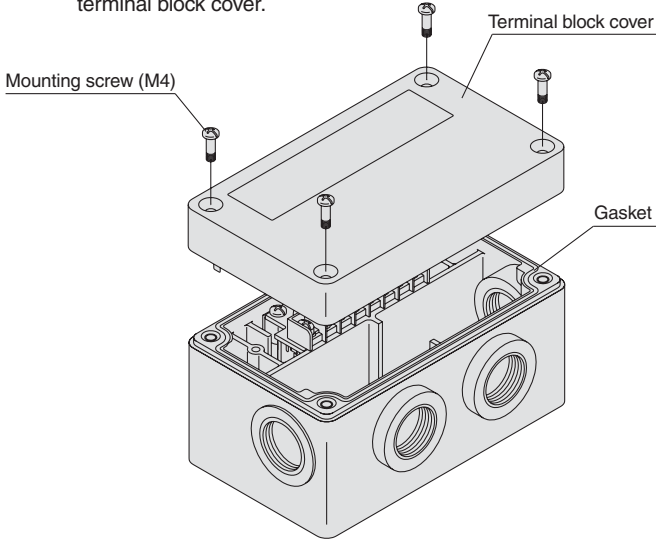
Compatible network **CC-Link**

- The serial transmission system greatly reduces connection work, minimizes wiring, and saves space.

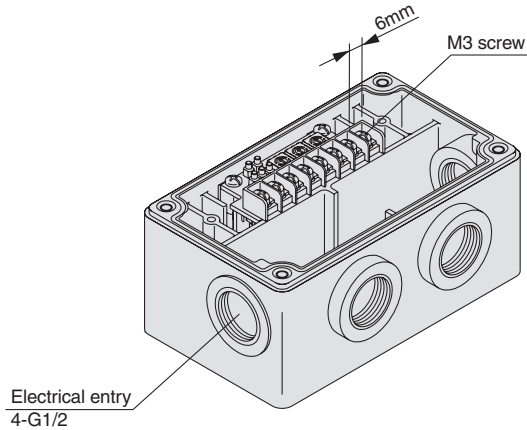
**Terminal Block Connection**

**Step 1. How to remove terminal block cover**

Loosen the 4 mounting screws (M4) and remove the terminal block cover.



**Step 2. Wire the cables according to the terminal block specifications below. Pay attention to the wire bound positions.**



**Step 3. How to replace the terminal block cover**

Securely tighten the screws to the torque shown in the table below, after confirming that the gasket is installed correctly.

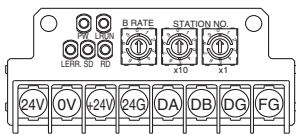
Proper tightening torque (N·m)
0.7 to 1.2

- Applicable crimp terminal (fork tongue type): 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5

\* For detailed specifications and handling, refer to the operation manual provided by SMC.

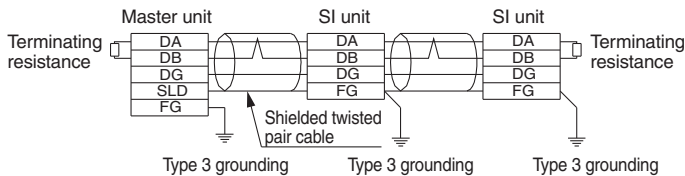
**Terminal Block Details**

• Terminal block LED descriptions



Description	Function
<b>PW</b>	ON when transmission power supply is ON. OFF when transmission power supply is OFF.
<b>L RUN</b>	ON when normal data is received.
<b>SD</b>	ON when data is sent.
<b>RD</b>	ON when data is received.
<b>L ERR.</b>	ON for transmission error and incorrect settings. BLINKING for change in station or transmission speed settings.

• Cable wiring



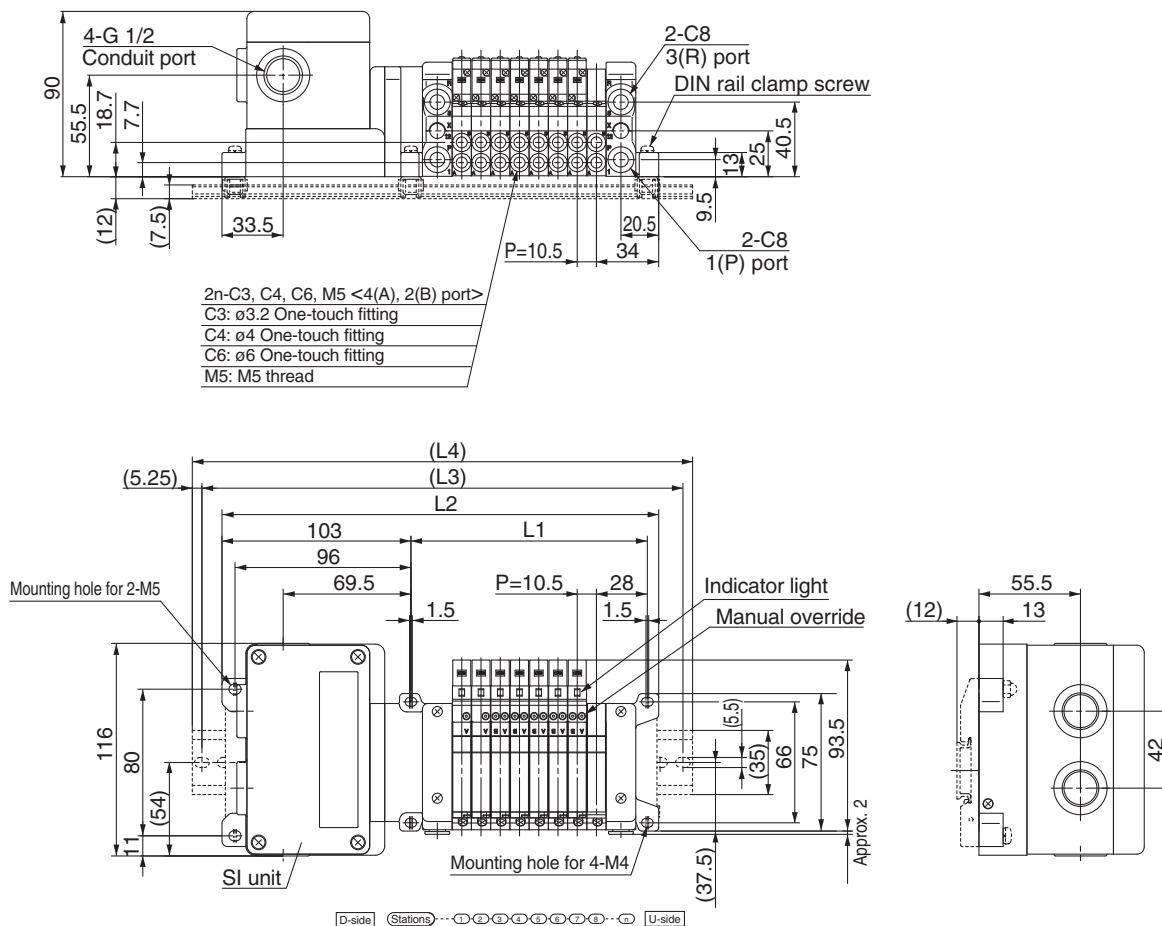
• Note

- CC-LINK System
  - Master unit: AJ61BT11
  - Master unit: A1SJ61BT11
  - Master unit: AJ61QBT11
  - Master unit: A1SJ61QBT11

- 16 outputs



VV5QC11  
S Kit (Serial transmission kit: EX126)



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

Formulas  
 $L1 = 10.5n + 45$  (Maximum 16 single wiring stations)  
 $L2 = 10.5n + 154.5$

n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L1	55.5	66	76.5	87	97.5	108	118.5	129	139.5	150	160.5	171	181.5	192	202.5	213
L2	165	175.5	186	196.5	207	217.5	228	238.5	249	259.5	270	280.5	291	301.5	312	322.5
L3	187.5	200	212.5	212.5	225	237.5	250	262.5	275	275	287.5	300	312.5	325	337.5	337.5
L4	198	210.5	223	223	235.5	248	260.5	273	285.5	285.5	298	310.5	323	335.5	348	348

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

# Series VQC

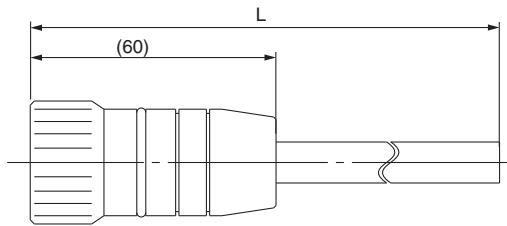
## Manifold Option

### ■ Circular connector/Cable assembly (26 pins)

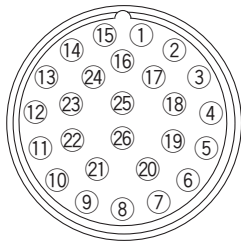
#### AXT100 – MC26 – □

##### Lead Wire Length

Part no.	L dimension
AXT100-MC26-015	1.5 m
AXT100-MC26-030	3 m
AXT100-MC26-050	5 m



Plug terminal no.  
(arrangement as seen from lead wire side)



### Circular Connector Cable Assembly Terminal No.

Terminal no.	Lead wire color	Dot marking
①	Black	None
②	Brown	None
③	Red	None
④	Orange	None
⑤	Yellow	None
⑥	Pink	None
⑦	Blue	None
⑧	Purple	White
⑨	Gray	Black
⑩	White	Black
⑪	White	Red
⑫	Yellow	Red
⑬	Orange	Red
⑭	Yellow	Black
⑮	Pink	Black
⑯	Blue	White
⑰	Purple	None
⑱	Gray	None
⑲	Orange	Black
⑳	Red	White
㉑	Brown	White
㉒	Pink	Red
㉓	Gray	Red
㉔	Black	White
㉕	White	None

Note) Terminal no. ㉖ is connected to ㉕ inside the connector.

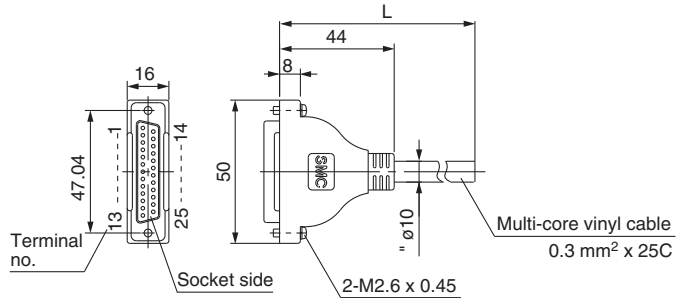
### ■ D-sub connector/Cable assembly (25 pins)

#### AXT100 – DS25 – □

##### Lead Wire Length

Part no.	L dimension
AXT100-DS25-015	1.5 m
AXT100-DS25-030	3 m
AXT100-DS25-050	5 m

When a commercially available connector is required, use a 25 pin female connector conforming to MIL-C24308.



### D-sub Connector Cable Assembly Terminal No.

Terminal no.	Lead wire color	Dot marking
①	Black	None
②	Brown	None
③	Red	None
④	Orange	None
⑤	Yellow	None
⑥	Pink	None
⑦	Blue	None
⑧	Purple	White
⑨	Gray	Black
⑩	White	Black
⑪	White	Red
⑫	Yellow	Red
⑬	Orange	Red
⑭	Yellow	Black
⑮	Pink	Black
⑯	Blue	White
⑰	Purple	None
⑱	Gray	None
⑲	Orange	Black
⑳	Red	White
㉑	Brown	White
㉒	Pink	Red
㉓	Gray	Red
㉔	Black	White
㉕	White	None

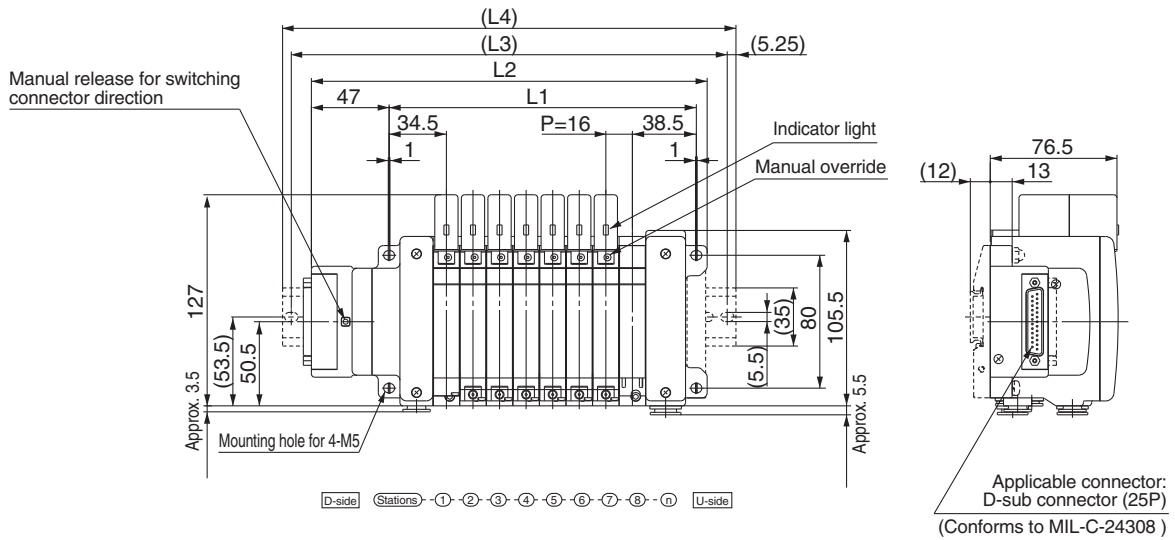
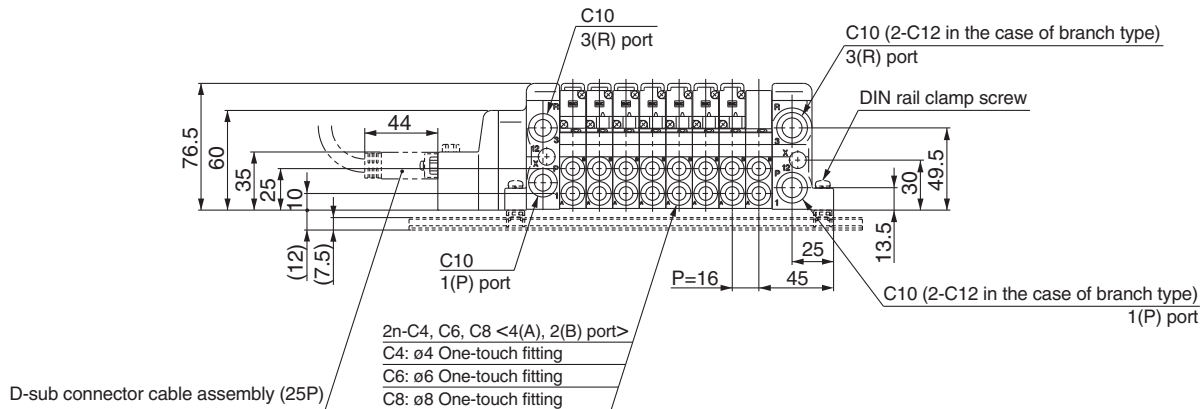
### Circular Connector, D-sub Connector Cable Assembly Electric Characteristics

Item	Characteristics
Conductor resistance W/km, 20°C	65 or less
Withstand voltage VAC, 1 min.	1000
Insulation resistance, M/km, 20°C	5 or less

Note) The minimum inside bending radius for each cable is 20 mm.

**F** VQC1000/2000/4000  
Kit (D-sub connector) IP40 compliant

VV5QC21



Formulas  
 $L1 = 16n + 57$  (Maximum 24 single wiring stations)  
 $L2 = 16n + 110.5$

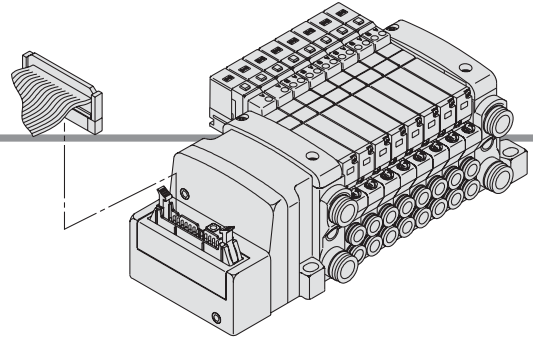
n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	126.5	142.5	158.5	174.5	190.5	206.5	222.5	238.5	254.5	270.5	286.5	302.5	318.5	334.5	350.5	366.5	382.5	398.5	414.5	430.5	446.5	462.5	478.5	494.5
L3	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	425	437.5	450	475	487.5	500	525
L4	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	535.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

Series VQC

**P** VQC1000/2000/4000  
Kit (Flat ribbon cable kit) IP40 compliant



- Using our flat ribbon cable for electrical connections greatly reduces labour, while it also minimizes wiring and saves space.
- We use flat ribbon cables whose connectors (26P and 20P) conform to MIL standards, and are therefore widely compatible with many standard commercial models.
- Top or side entry for the connector can be changed freely, allowing for changes even after mounting, to meet any changing needs for space.

Electrical Wiring Specifications

**Flat ribbon cable connector**

Double wiring (connected to SOL. A and SOL. B) is used for the internal wiring of each station regardless of valve and option types. Mixed single and double wiring are available as options. Refer to special wiring specifications (options) below.

Connector terminal number

Triangle mark indicator position

<26P>			<20P>		
Station	Terminal no.	Polarity	Station	Terminal no.	Polarity
Station 1	SOL. A 1	(-) (+)	Station 1	SOL. A 1	(-) (+)
	SOL. B 2	(-) (+)		SOL. B 2	(-) (+)
Station 2	SOL. A 3	(-) (+)	Station 2	SOL. A 3	(-) (+)
	SOL. B 4	(-) (+)		SOL. B 4	(-) (+)
Station 3	SOL. A 5	(-) (+)	Station 3	SOL. A 5	(-) (+)
	SOL. B 6	(-) (+)		SOL. B 6	(-) (+)
Station 4	SOL. A 7	(-) (+)	Station 4	SOL. A 7	(-) (+)
	SOL. B 8	(-) (+)		SOL. B 8	(-) (+)
Station 5	SOL. A 9	(-) (+)	Station 5	SOL. A 9	(-) (+)
	SOL. B 10	(-) (+)		SOL. B 10	(-) (+)
Station 6	SOL. A 11	(-) (+)	Station 6	SOL. A 11	(-) (+)
	SOL. B 12	(-) (+)		SOL. B 12	(-) (+)
Station 7	SOL. A 13	(-) (+)	Station 7	SOL. A 13	(-) (+)
	SOL. B 14	(-) (+)		SOL. B 14	(-) (+)
Station 8	SOL. A 15	(-) (+)	Station 8	SOL. A 15	(-) (+)
	SOL. B 16	(-) (+)		SOL. B 16	(-) (+)
Station 9	SOL. A 17	(-) (+)	Station 9	SOL. A 17	(-) (+)
	SOL. B 18	(-) (+)		SOL. B 18	(-) (+)
Station 10	SOL. A 19	(-) (+)	Station 10	COM 19	(+) (-)
	SOL. B 20	(-) (+)		COM 20	(+) (-)
Station 11	SOL. A 21	(-) (+)			
	SOL. B 22	(-) (+)			
Station 12	SOL. A 23	(-) (+)			
	SOL. B 24	(-) (+)			
	COM 25	(+) (-)			
	COM 26	(+) (-)			

Positive COM. spec. Negative COM. spec.

Note) When using the negative COM. specification for VQC1000/2000, use valves for negative COM.

Cable Assembly

AXT100-FC<sup>1</sup><sub>26-2</sub><sup>3</sup>

(Type 26P flat ribbon cable connector assemblies can be ordered with manifolds. Refer to manifold ordering.)

Terminal no. Red 28AWG

30 (20P) 37.5 (26P)

6 2 1 25 26

(15.6) L

**Flat ribbon cable connector assemblies (Option)**

Cable length (L)	Part no.	
	26P	20P
1.5 m	AXT100-FC26-1	AXT100-FC20-1
3 m	AXT100-FC26-2	AXT100-FC20-2
5 m	AXT100-FC26-3	AXT100-FC20-3

\* When using a standard commercial connector, use a type 26P connector conforming to MIL-C-83503 or a type 20P with strain relief.  
\* Cannot be used for transfer wiring.

**Connector Manufacturers Example:**

- Hirose Electric CO., Ltd.
- Sumitomo/3-M Limited
- Fujitsu, Ltd.
- Japan Aviation Electronics Industry, Ltd.
- J.S.T. Mfg. Co., Ltd.
- Oki Electric Cable Co., Ltd.

Special Wiring Specifications (Option)

COM. COM. COM. COM.

(For 26P) (For 20P)

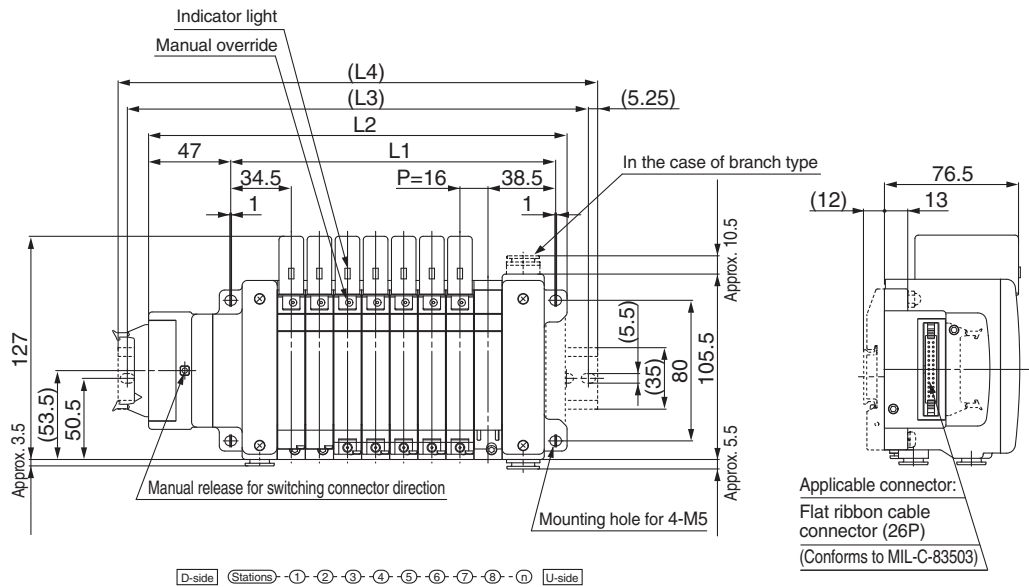
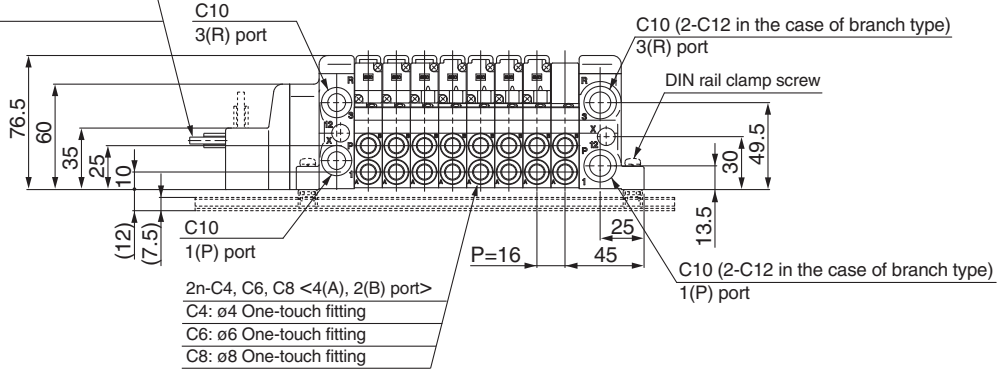
Mixed single and double wiring are available as options. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

**P** VQC1000/2000/4000  
Kit (Flat ribbon cable kit) IP40 compliant

VV5QC21

Flat ribbon cable connector assembly (26P)

- AXT100-FC26-1: 1.5 m
- AXT100-FC26-2: 3 m
- AXT100-FC26-3: 5 m



Applicable connector:  
Flat ribbon cable connector (26P)  
(Conforms to MIL-C-83503)

Formulas

$L1 = 16n + 57$  (Maximum 24 single wiring stations)

$L2 = 16n + 110.5$

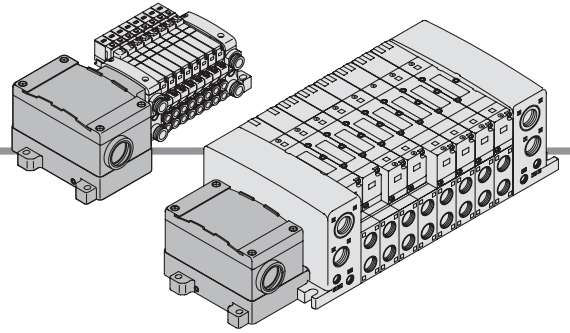
n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	126.5	142.5	158.5	174.5	190.5	206.5	222.5	238.5	254.5	270.5	286.5	302.5	318.5	334.5	350.5	366.5	382.5	398.5	414.5	430.5	446.5	462.5	478.5	494.5
L3	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	425	437.5	450	475	487.5	500	525
L4	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	535.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.



**T** VQC1000/2000/4000  
Kit (Terminal block box kit) IP67 compliant

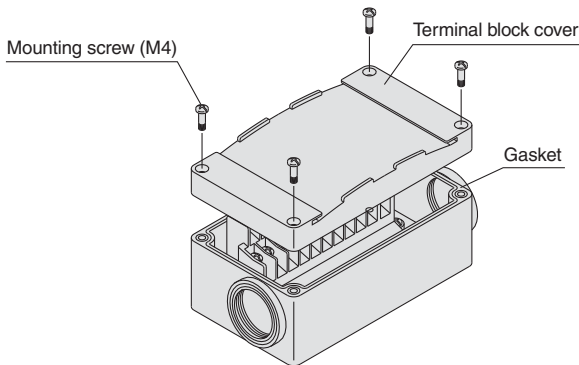


• This kit has a small terminal block inside a junction box. The provision of a G 3/4 electrical entry allows connection of conduit fittings.

**Terminal Block Connection**

**Step 1. How to remove terminal block cover**

Loosen the 4 mounting screws (M4) and remove the terminal block cover.



**Step 3. How to replace the terminal block cover**

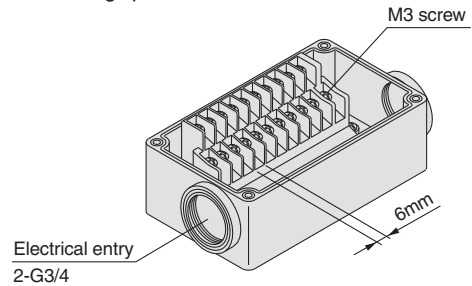
Securely tighten the screws to the torque shown in the table below, after confirming that the gasket is installed correctly.

Proper tightening torque (N·m)
0.7 to 1.2

**Step 2. The diagram below shows the terminal block wiring.**

**All stations are provided with double wiring regardless of the valves which are mounted.**

Connect each wire to the power supply side, according to the markings provided inside the terminal block.



- Applicable crimp terminal (fork tongue type): 1.25-3S, 1.25Y-3, 1.25Y-3N, 1.25Y-3.5

**Electrical Wiring Specifications (Conforms to IP67)**

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

The internal wiring is double (connected to SOL. A and SOL. B) for all stations regardless of the type of valve or options. Mixed single and double wiring are available as options.

Note) When using the negative COM. specification for VQC1000/2000, use valves for negative COM.

**Special Wiring Specifications (Option)**

Mixed single and double wiring are available as options. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 20.

**1. How to order**

Indicate option symbol "-K" in the manifold part number and be sure to specify station positions for single or double wiring on the manifold specification sheet.

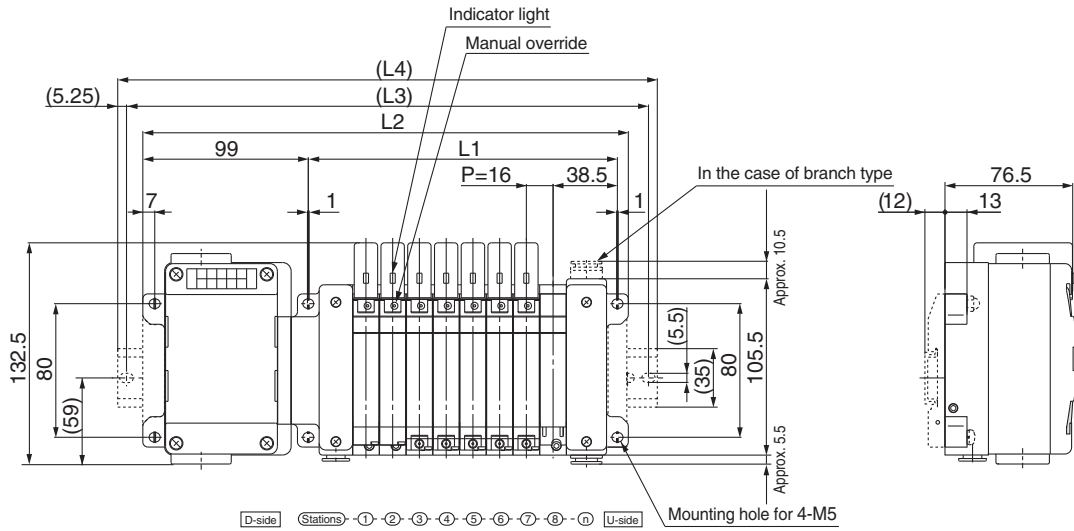
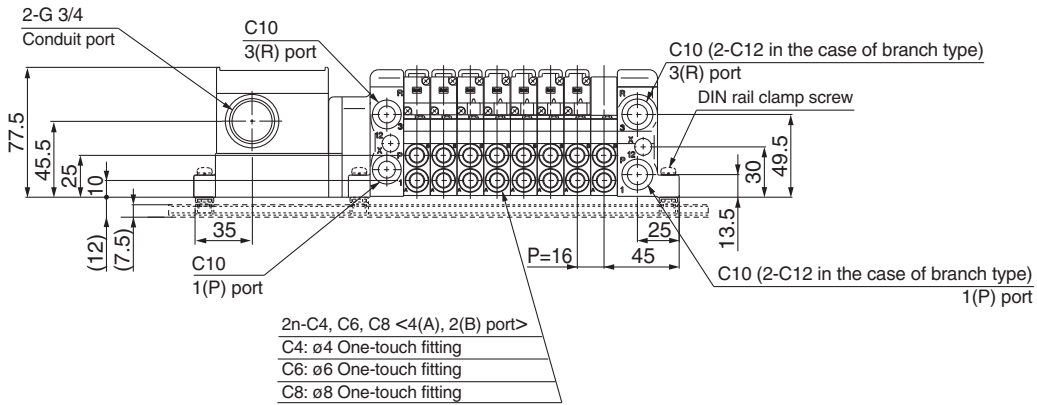
**2. Wiring specifications**

Connector terminal numbers are connected from solenoid station 1 on the A side in the order indicated by the arrows without skipping any terminal numbers.



**T** VQC1000/2000/4000  
Kit (Terminal block box kit) IP67 compliant

VV5QC21



Formulas

$L1 = 16n + 57$  (Maximum 20 single wiring stations)

$L2 = 16n + 163$

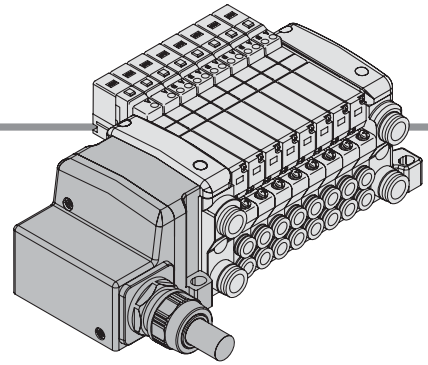
n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377
L2	179	195	211	227	243	259	275	291	307	323	339	355	371	387	403	419	435	451	467	483
L3	200	212.5	237.5	237.5	262.5	262.5	287.5	312.5	325	371	362.5	375	408.5	412.5	425	437.5	462.5	496	487.5	500
L4	210.5	223	248	248	273	273	298	323	335.5	360.5	373	385.5	398	423	435.5	448	473	485.5	498	510.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

Series VQC

**L** VQC1000/2000/4000  
Kit (Lead wire kit) IP67 compliant

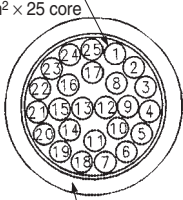


- Direct electrical entry type.
- IP67 enclosure is available with use of cables with sheath and waterproof connectors.

Electrical Wiring Specifications

Lead wire specifications

Lead wire  
0.3 mm<sup>2</sup> × 25 core



Sheath  
Colour: Urban white

As the standard electrical wiring specification used is for 12 stations or less, double wiring (connected to SOL. A and SOL. B) is used for the internal wiring of each station regardless of valve and option types. Mixed single and double wiring are available as options. Refer to special wiring specifications (options) below.

	Terminal no.	Polarity		Lead wire colour	Dot marking
Station 1	SOL. A 1	(-)	(+)	Black	None
	SOL. B 14	(-)	(+)	Yellow	Black
Station 2	SOL. A 2	(-)	(+)	Brown	None
	SOL. B 15	(-)	(+)	Pink	Black
Station 3	SOL. A 3	(-)	(+)	Red	None
	SOL. B 16	(-)	(+)	Blue	White
Station 4	SOL. A 4	(-)	(+)	Orange	None
	SOL. B 17	(-)	(+)	Purple	None
Station 5	SOL. A 5	(-)	(+)	Yellow	None
	SOL. B 18	(-)	(+)	Grey	None
Station 6	SOL. A 6	(-)	(+)	Pink	None
	SOL. B 19	(-)	(+)	Orange	Black
Station 7	SOL. A 7	(-)	(+)	Blue	None
	SOL. B 20	(-)	(+)	Red	White
Station 8	SOL. A 8	(-)	(+)	Purple	White
	SOL. B 21	(-)	(+)	Brown	White
Station 9	SOL. A 9	(-)	(+)	Grey	Black
	SOL. B 22	(-)	(+)	Pink	Red
Station 10	SOL. A 10	(-)	(+)	White	Black
	SOL. B 23	(-)	(+)	Grey	Red
Station 11	SOL. A 11	(-)	(+)	White	Red
	SOL. B 24	(-)	(+)	Black	White
Station 12	SOL. A 12	(-)	(+)	Yellow	Red
	SOL. B 25	(-)	(+)	White	None
	COM. 13	(+)	(-)	Orange	Red

Positive COM. spec.      Negative COM. spec.      (Note)

Lead wire length

VV5QC11-08 C6 LD 0

Lead wire length

0	0.6 m
1	1.5 m
2	3.0 m

Electrical characteristics

Item	Characteristic
Conductor resistance Ω/km, 20°C	65 or less
Withstand pressure V, 1 minute, AC	1000
Insulation resistance MΩ/km, 20°C	5 or more

Note) Cannot be used for transfer wiring. The minimum bending radius for cables is 20 mm.

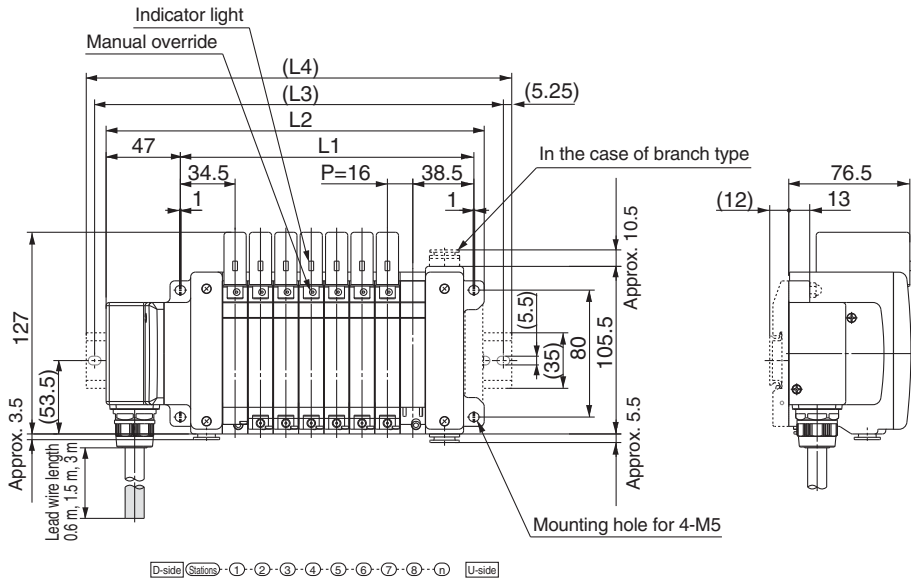
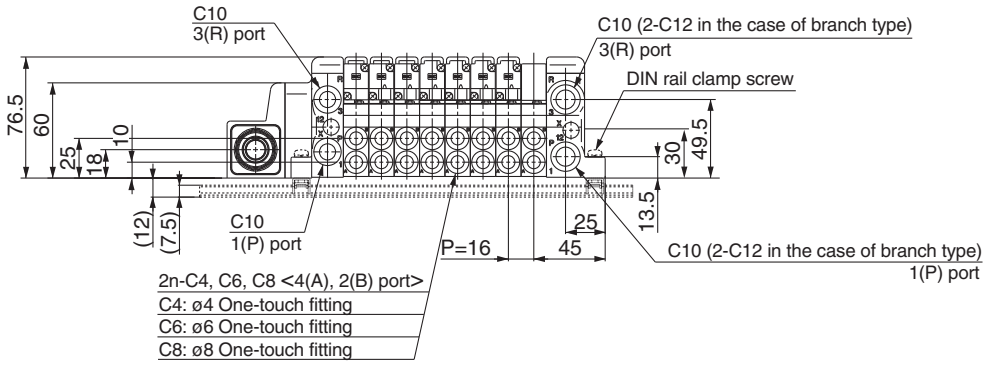
Note) When using the negative COM. specification for VQC1000/2000, use valves for negative COM.

Special Wiring Specifications (Option)

Mixed single and double wiring are available as options. The maximum number of manifold stations is determined by the number of solenoids. Count one point for a single solenoid type and two points for a double solenoid type. The total number of solenoids (points) must not exceed 24.

**VQC1000/2000/4000**  
**Kit (Lead wire kit) IP67 compliant**

VV5QC21



Formulas

$L1 = 16n + 57$  (Maximum 24 single wiring stations)

$L2 = 16n + 110.5$

n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	126.5	142.5	158.5	174.5	190.5	206.5	222.5	238.5	254.5	270.5	286.5	302.5	318.5	334.5	350.5	366.5	382.5	398.5	414.5	430.5	446.5	462.5	478.5	494.5
L3	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	425	437.5	450	475	487.5	500	525
L4	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	535.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

# Series VQC

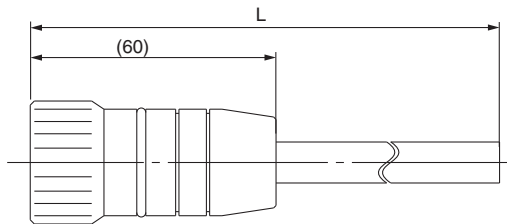
## Manifold Option

### ■ Circular connector/Cable assembly (26 pins)

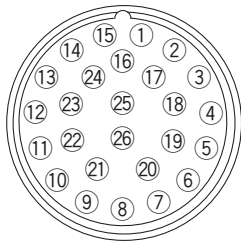
#### AXT100 – MC26 – □

##### Lead Wire Length

Part no.	L dimension
AXT100-MC26-015	1.5 m
AXT100-MC26-030	3 m
AXT100-MC26-050	5 m



Plug terminal no.  
(arrangement as seen from lead wire side)



### Circular Connector Cable Assembly Terminal No.

Terminal no.	Lead wire color	Dot marking
①	Black	None
②	Brown	None
③	Red	None
④	Orange	None
⑤	Yellow	None
⑥	Pink	None
⑦	Blue	None
⑧	Purple	White
⑨	Gray	Black
⑩	White	Black
⑪	White	Red
⑫	Yellow	Red
⑬	Orange	Red
⑭	Yellow	Black
⑮	Pink	Black
⑯	Blue	White
⑰	Purple	None
⑱	Gray	None
⑲	Orange	Black
⑳	Red	White
㉑	Brown	White
㉒	Pink	Red
㉓	Gray	Red
㉔	Black	White
㉕	White	None

Note) Terminal no. ㉖ is connected to ㉕ inside the connector.

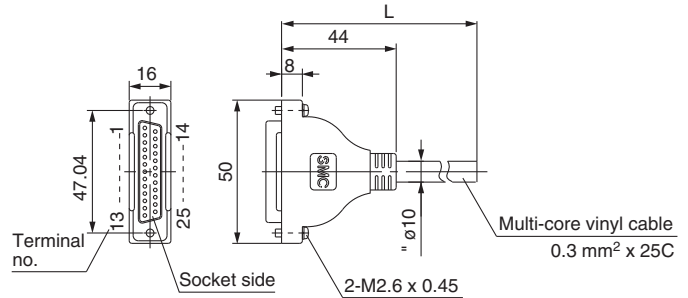
### ■ D-sub connector/Cable assembly (25 pins)

#### AXT100 – DS25 – □

##### Lead Wire Length

Part no.	L dimension
AXT100-DS25-015	1.5 m
AXT100-DS25-030	3 m
AXT100-DS25-050	5 m

When a commercially available connector is required, use a 25 pin female connector conforming to MIL-C24308.



### D-sub Connector Cable Assembly Terminal No.

Terminal no.	Lead wire color	Dot marking
①	Black	None
②	Brown	None
③	Red	None
④	Orange	None
⑤	Yellow	None
⑥	Pink	None
⑦	Blue	None
⑧	Purple	White
⑨	Gray	Black
⑩	White	Black
⑪	White	Red
⑫	Yellow	Red
⑬	Orange	Red
⑭	Yellow	Black
⑮	Pink	Black
⑯	Blue	White
⑰	Purple	None
⑱	Gray	None
⑲	Orange	Black
⑳	Red	White
㉑	Brown	White
㉒	Pink	Red
㉓	Gray	Red
㉔	Black	White
㉕	White	None

### Circular Connector, D-sub Connector Cable Assembly Electric Characteristics

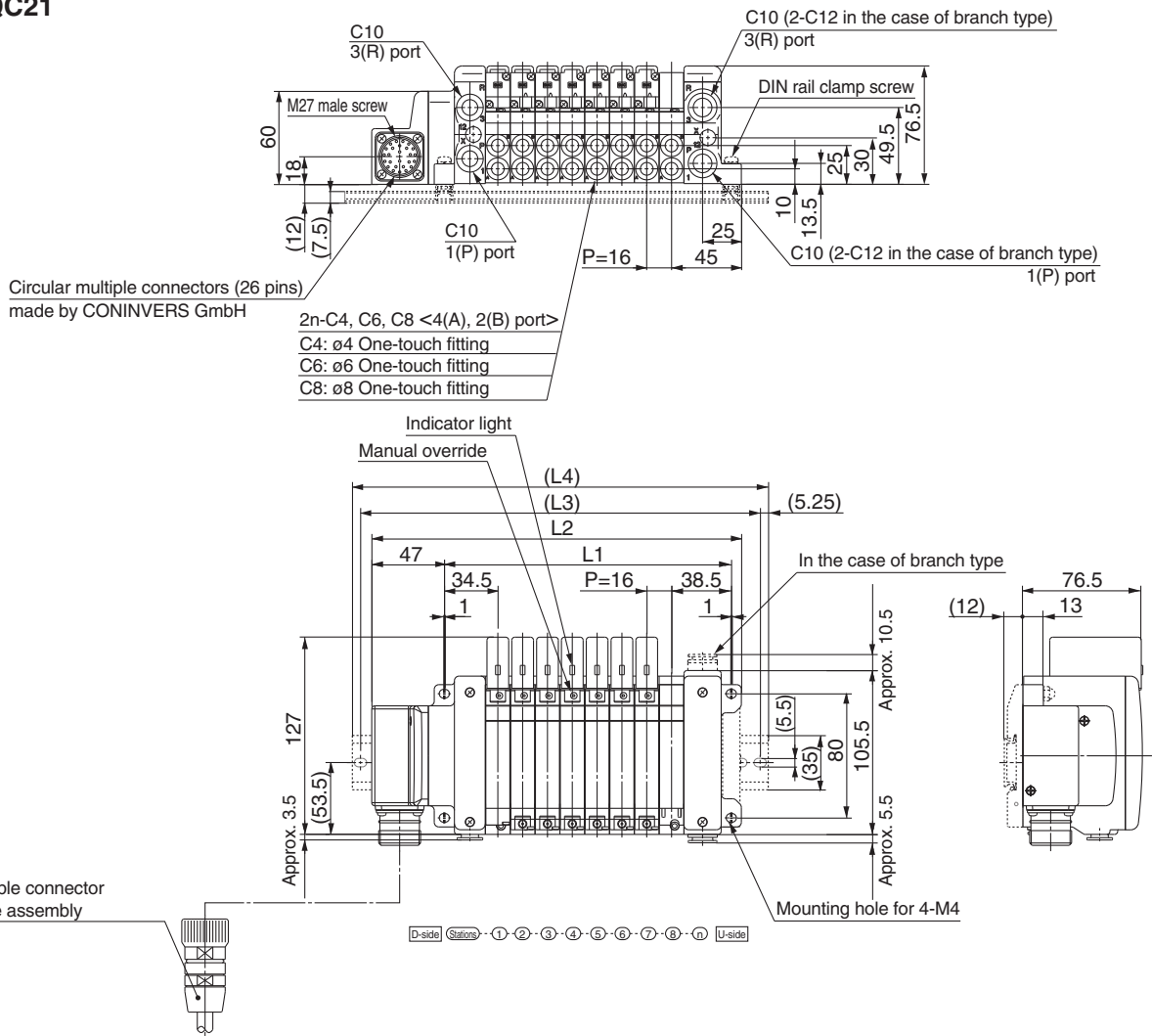
Item	Characteristics
Conductor resistance W/km, 20°C	65 or less
Withstand voltage VAC, 1 min.	1000
Insulation resistance, M/km, 20°C	5 or less

Note) The minimum inside bending radius for each cable is 20 mm.



**M** VQC1000/2000/4000  
Kit (Multiple connector kit) IP67 compliant

VV5QC21



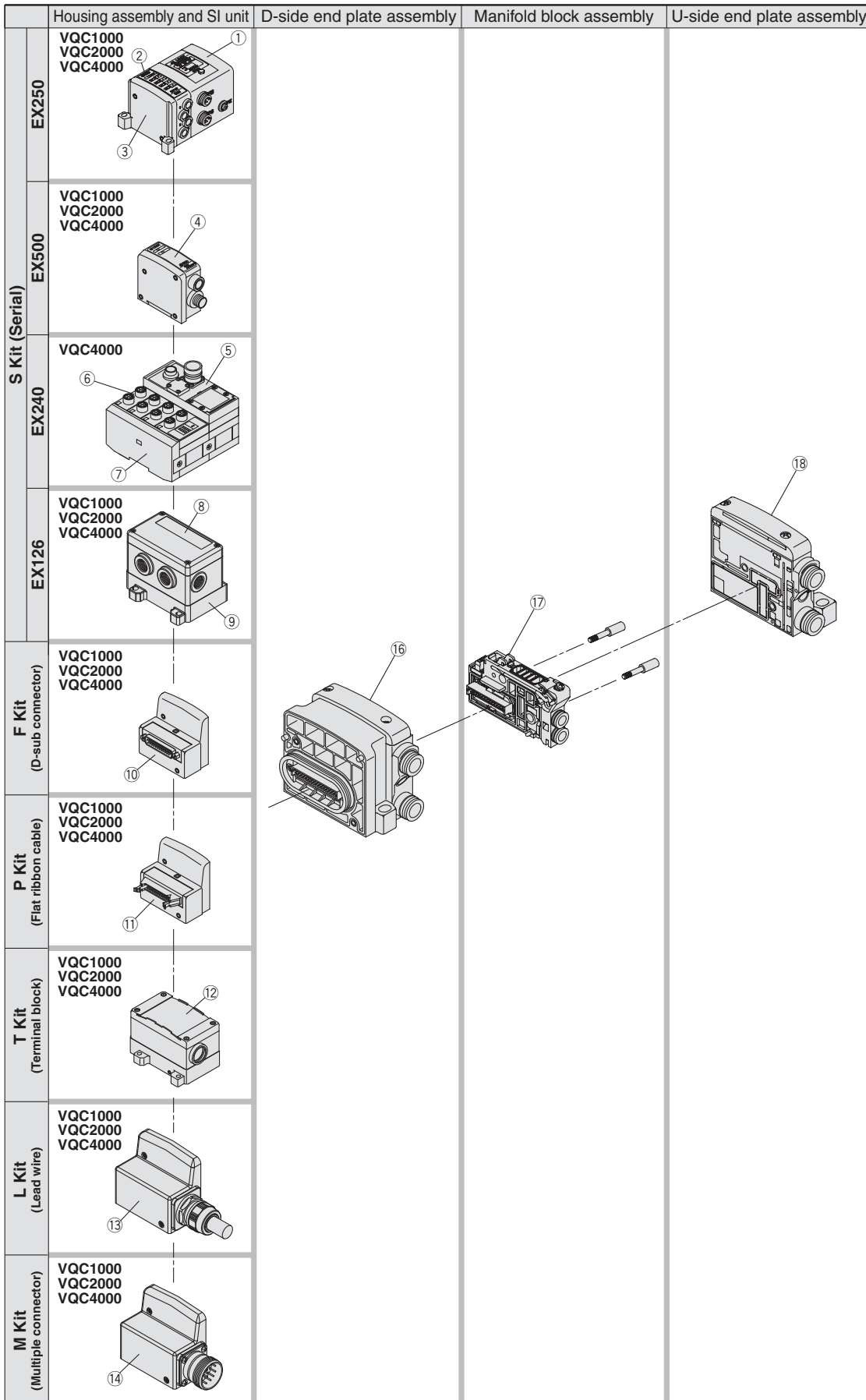
Formulas  
 $L1 = 16n + 57$  (Maximum 24 single wiring stations)  
 $L2 = 16n + 110.5$

n: Stations

L \ n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1	73	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313	329	345	361	377	393	409	425	441
L2	126.5	142.5	158.5	174.5	190.5	206.5	222.5	238.5	254.5	270.5	286.5	302.5	318.5	334.5	350.5	366.5	382.5	398.5	414.5	430.5	446.5	462.5	478.5	494.5
L3	150	162.5	187.5	200	212.5	237.5	250	262.5	275	300	312.5	325	350	362.5	375	387.5	412.5	425	437.5	450	475	487.5	500	525
L4	160.5	173	198	210.5	223	248	260.5	273	285.5	310.5	323	335.5	360.5	373	385.5	398	423	435.5	448	460.5	485.5	498	510.5	535.5

\* With signal cut block, L4 is obtained by adding approximately 30 mm to L2.

# Exploded View of Manifold



Manifold Assembly Part No.

Housing Assembly and SI Unit/Input Block

No.	Description	Part no.	Note	Applicable model		
				VQC1000	VQC2000	VQC4000
①	SI unit	EX250-SPR1	PROFIBUS-DP (-COM.)	●	●	●
		EX250-SAS□	AS-i (-COM.)	●	●	●
		EX250-SMJ	CC-LINK (+COM.)	●	●	●
		EX250-SDN1	DeviceNet (-COM.)	●	●	●
		EX250-SCA1	CANopen (-COM.)	●	●	●
②	Input block	EX250-IE1	M12, 2 inputs	●	●	●
		EX250-IE2	M12, 4 inputs	●	●	●
		EX250-IE3	M8, 4 inputs	●	●	●
③	End plate assembly	EX250-EA1	Standard	●	●	●
		EX250-EA2	DIN rail mounting	●	●	—
④	SI unit	EX500-Q001	DeviceNet (+COM.)	●	●	●
		EX500-Q001-X1	Remote I/O (+COM.)	●	●	●
		EX500-Q101	DeviceNet / PROFIBUS-DP (-COM.)	●	●	●
		EX500-Q101-X1	Remote I/O (-COM.)	●	●	●
⑤	SI unit	EX240-SDN2	DeviceNet (+COM.)	—	—	●
		EX240-SPR1	PROFIBUS-DP (-COM.)	—	—	●
⑥	Input block	EX240-IE1	M12, 8 inputs	—	—	●
		EX240-EA2	For manifold with input block	—	—	●
⑦	End cover assembly	EX240-EA4	For manifold without input block	—	—	●
		EX126D-SMJ1	CC-LINK (+COM.)	●	●	●
⑧	Terminal plate	VVQC1000-74A-2	For EX126 SI unit mounting	●	●	●
⑩	D-sub connector housing assembly	VVQC1000-F25-1	F kit, 25 pins	●	●	●
⑪	Flat ribbon cable housing assembly	VVQC1000-P26-1	P kit, 26 pins	●	●	●
		VVQC1000-P20-1	P kit, 20 pins	●	●	●
⑫	Terminal block box housing assembly	VVQC1000-T0-1	T kit	●	●	●
⑬	Lead wire housing assembly	VVQC1000-L25-0-1	L kit with 0.6 m lead wire	●	●	●
		VVQC1000-L25-1-1	L kit with 1.5 m lead wire	●	●	●
		VVQC1000-L25-2-1	L kit with 3.0 m lead wire	●	●	●
⑭	Multiple connector housing assembly	VVQC1000-M26-1	M kit 26 pins	●	●	●
⑮	Signal cut block	EX9-SC1-8	Double wiring of 1st to 8th stations	●	●	●
		EX9-SC2-4	Double wiring of 9th to 12th stations	●	●	●

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

D-side end plate assembly

⑯ D-side end plate assembly part no.

VQC1000/2000

VVQC 1 000-3A-1-C8-□

Series

Symbol	VQC1000	VQC2000
C8	●	
C10		●
N9	●	
N11		●

Port size

Option

Nil	Centralized exhaust
R	External pilot
S	Direct exhaust outlet with built-in silencer

VQC4000

VVQC4000-3A-1-□

Kit type

1	S (EX240) kit
2	F, P, T, S (EX250) kit
3	L, M, S (EX500) kit

Thread type

Nil	Rc
F	G
T	NPT/NPTF

U-side end plate assembly

⑰ U-side end plate assembly part no.

VQC1000/2000

VVQC 1 000-2A-1-C8-□

Series

1	VQC1000
2	VQC2000

Supply/Exhaust port entry direction

1	Cylinder port side
2 (Note)	Branch type

Note) VQC2000 only

Port size

Symbol	VQC1000	VQC2000
C8	●	
C10		●
C12		●
N9	●	
N11		●
N13		●

Option

Nil	Centralized exhaust
R	External pilot
S	Direct exhaust outlet with built-in silencer

VQC4000

VVQC4000-2A-1-□

Thread type

Nil	Rc
F	G
T	NPT/NPTF

Manifold block assembly

⑱ Manifold block assembly part no.

VVQC 1 000-1A-D-C6-□

Wiring specifications

D	Double wiring
S	Single wiring
0 (Note)	No wiring

Note) For VQC1000/2000 only.

Option

Nil	None
B (Note)	With back pressure check valve

Note) Except VQC4000.

Thread type (Note)

Nil	Rc
F	G
T	NPT/NPTF

Note) VQC 4000 thread port only

Port size

Symbol	Port size	VQC1000	VQC2000	VQC4000
C3	For ø3.2 One-touch fitting	●		
C4	For ø4 One-touch fitting	●	●	
C6	For ø6	●	●	
C8	For ø8		●	●
C10	For ø10			●
C12	For ø12			●
N1	For ø1/8"	●		
N3	For ø5/32"	●	●	
N7	For ø1/4"	●	●	●
N9	For ø5/16"		●	●
N11	For ø3/8"			●
M5	For M5 thread	●		
O2	Rc 1/4"			●
O3	Rc 3/8"			●
B	Rc 1/4" bottom ported			●
C0	Without One-touch fitting	●	●	●